



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

January 24, 2013

Mr. Joshua Smith
City of Hamilton
One Renaissance Building
345 High Street
Hamilton, Ohio 45011

RE: Butler County, Hamilton WWTP, Reconnaissance Inspection

Dear Mr. Smith:

On January 18, 2013, I conducted a Reconnaissance Inspection at this facility (NPDES Permit No. OH0025445; OEPA Permit No. 1PE00002*MD). Billy Slaven and Greg Hildebrand were representing this facility. A copy of my inspection report is enclosed.

The areas evaluated in the inspection report were found to be acceptable. Therefore, a response is not required at this time.

If you have any questions, please call me at (937) 285-6096.

Sincerely,

Ned Sarle
Environmental Specialist 2
Division of Surface Water – Permits Section

Enclosure

NS/tb

ec: Billy Slaven, City of Hamilton

Permit No.: 1PE00002*MD

NPDES No.: OH0025445



State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding

Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PE00002*MD	OH0025445	1/18/2013	R	S	1

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Hamilton WWTP 2451 River Road Hamilton, Ohio 45015	10:00 A.M.	9/1/2009
	Exit Time	Permit Expiration Date
	10:50 A.M.	7/31/2014
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Billy Slaven, Water Reclamation Superintendent Greg Hildebrand, Asst. Water Reclamation Supt.	(513) 868-5971 (513) 868-5971	
Name, Address and Title of Responsible Official	Phone Number	
Joshua Smith, City Manager One Renaissance Building 345 High Street Hamilton, Ohio 45011	(513) 785-7000	

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	N	Flow Measurement	N	Pretreatment
N	Records/Reports	N	Laboratory	S	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	N	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)

See Attached Summary of Findings / Comments.

Inspector	Reviewer
1/24/13 Date	1/25/13 Date
Ned Sarle Permit Section Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

Summary of Findings / Comments

The City was in Significant Noncompliance (SNC) with the TSS limits for October 2011 through March 2012. A review of the Discharge Monitoring Reports (DMRs) for the period of April through December 2012 indicated one chlorine residual violation reported in July. The city of Hamilton (Hamilton) is no longer considered to be in SNC for TSS. Future violations must continue to be reported as required by the NPDES Permit as detailed in Part III.12 titled Noncompliance Notification.

The WWTP is designed for an average daily flow rate of 32.0 MGD. A review of the DMRs for April through December 2012 indicated the average daily flow was 7.41 MGD. The peak daily flow rate was reported as 19.03 MGD. These flows are down significantly since Smart Papers and Mohawk Papers closed.

On January 19, 2007, a new Consent Order (CO) became effective for Hamilton. The City was in violation of the previous CO due to bypasses from the sewage collection and treatment system. The new CO requires Hamilton to take action to address these bypasses.

To address the sewage collection and treatment system bypasses, a System Evaluation and Capacity Assurance Plan (SECAP) was approved by Ohio EPA on July 11, 2009. Since being approved, the City obtained additional monitoring information on their sewage collection system. In addition, two large industrial dischargers closed in the City. The City used this new information to revise the proposed sewage collection and treatment system improvements proposed in the approved SECAP. A Water Reclamation Facility Phase 2 Preliminary Engineering Report addressing these revised improvements was approved by Ohio EPA on August 29, 2012.

To eliminate the sewage collection system bypasses, a new trunk sewer constructed between overflow location 027 and the WWTP has been recommended for approval by this office. The City is planning on bidding this project in February 2013 and starting construction in April 2013. Construction should be completed by August 2014.

The proposed trunk sewer is using a portion of sewer that was used by Smart Papers. The old Smart Papers facility still has infiltration and inflow sources that are connected to this existing sewer. During rain events, as much as 500,000 gallons of water collects at the old Smart Papers pretreatment system. The City must work to eliminate these clean water sources as much as possible.

The CO also requires the internal WWTP bypasses be eliminated. The first phase was to replace the aeration equipment in the activated sludge tank, modify the aeration system inlet and outlet structures, construct a new vector dump station, and add a new WWTP backup generator. This construction is substantially completed. One aeration tank inlet channel has a leaking joint. This inlet channel and the associated aeration basin are not in use at this time. Once this leaking joint is repaired, the Phase I WWTP upgrade will be considered complete.

Permit No.: 1PE00002*MD

NPDES No.: OH0025445

The second phase of the WWTP upgrade will consist of expanding the influent pump station, expanding the Hamilton Pump Station, modifying the aeration system to provide step feed, construct a new final clarifier, modify the two existing final clarifiers, refurbish the old storm water pump station, and convert the old WWTP into a 4.5 million gallon flow equalization system. The PTI for these WWTP improvements will be submitted in April 2013.

In the next several months, Billy Slaven will be strictly overseeing the construction of the trunk sewer and the WWTP upgrades. Greg Hildebrand will be in charge of the day to day WWTP operations.

The WWTP operations were going well during the inspection. The WWTP effluent looked clear and no adverse effects were noted in the receiving stream. Only one aeration tank was in operation during the inspection. Earlier this month, the City treated a peak flow of 26 MGD of wastewater using this aeration tank with the new fine bubble diffuser aeration system. The City noted that this new treatment system had performed well during this high flow event.