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

August 9, 2013

RE: MT. HOPE WWTP
NPDES PERMIT 3PG00135 / OH0092282
SFY 2013 CEI
HOLMES COUNTY

Mr. Chris Young, County Engineer
Mt. Hope WWTP
PO Box 90
Millersburg, OH 44654

Mr. Young:

On June 12, 2013, a Compliance Evaluation Inspection was conducted at the Mt. Hope wastewater treatment plant (WWTP). Representing the county were you, Mr. Ault, and Kevin Dean. The purpose of the inspection was to evaluate compliance with the terms and conditions of your National Pollutant Discharge Elimination System (NPDES) permit and to evaluate the operation and maintenance of the plant.

Following are observations during the inspection:

1. No concerns were identified at the time of the inspection. The plant appeared well maintained and operated.

2. All processes were in operation. Both dosing pumps for the sand filters and both blowers for the aeration tank were operational. The air delivery system was sufficient to provide all necessary air to all treatment facilities including the equalization tank and the sludge holding tank.

3. The contents of the aeration tank were medium brown. Air supplied to the tank provided good mixing of the mixed liquor.

4. The sand filters were free of sludge and weeds.

5. It was understood that the county is using aluminum chlorohydrate at Walnut Creek for phosphorus removal. If that test of aluminum chlorohydrate is successful, it was understood that the chemical will replace ferric chloride at the Mt. Hope treatment plant.

6. The outfall from the facility was free of any sludge deposits. Substrate in the receiving stream was gravel and rocks, and showed no impact from the treatment system.

7. A new flow monitoring system was recently installed at the plant. The flow monitoring system includes a weir and ultra-sound level monitor.

8. A backup generator is available in the event of a power loss.

9. During the inspection we discussed the hydraulic loads into the plant. As discussed, it appears that the plant is hydraulically overloaded at times. From page 4 of this report, it can be noted that over nineteen percent of the average daily flow values exceeded the design average daily flow during the period covering June 2012 through May 2013. It was indicated that the sporadic high flows were attributable to activities such as the auction. Though the high flow events did not appear to cause permit violations, they do contribute to operational issues. Holmes County should evaluate the system and make any plant modifications necessary to eliminate operational issues associated with intermittent high flows.

A review of the compliance record was conducted for the period covering June 2012 through May 2013. Page 4 includes the results of the review. If you have any questions or comments concerning the enclosed inspection report, please contact this office at (330) 963-1251 or at john.kwolek@epa.ohio.gov.

Respectfully

John Kwolek
District Engineer
Division of Surface Water
Northeast District Office

JK/cs

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
3PG00135	OH0092282	CEI	S	P
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
6/12/2013			No	No

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Mt Hope WWTP	6/1/2009
	Permit Expiration Date
	5/31/2014
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Name and Title of Responsible Official	Phone Number
Chris Young, County Engineer	(330) 674-8104

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
S	NPDES Compliance	
S	Operations & Maintenance	
S	Facility Site Review	
S	Collection System	
S	Flow Measurement	
S	Receiving Waters	
N	Laboratory	

Comments:

Signatures	
John Kwolek	8/13/13
John Kwolek, Inspector District Engineer Division of Surface Water Northeast District Office	Date

SECTION D: PERMIT VERIFICATION

(a) Correct name and mailing address of permittee ..... Y
(b) Correct name and location of receiving waters ..... Y
(c) Products and production rates conform with permit application ..... N/A
(d) Flows and loadings conform with NPDES permit ..... Y
(e) Treatment processes are as described in permit application ..... Y
(f) New treatment process added since last inspection ..... N
(g) Notification given to State of new, different or increased discharges ..... N/A
(h) All discharges are permitted ..... Y
(i) Number and location of discharge points are as described in permit ..... Y

Comments:

SECTION E: COMPLIANCE

(a) Any significant violations since the last inspection ..... Y
(b) Permittee is taking actions to resolve violations ..... Y
(c) Permittee has a compliance schedule ..... N
(d) Permittee is meeting compliance schedule ..... N/A

Comments:

SECTION F: OPERATION AND MAINTENANCE

(a) Standby power available ..... Y
If yes, what type? Permanent Generator
(b) Adequate alarm system available for power or equipment failures ..... N/E
(c) All treatment units in service other than backup units ..... Y
(d) Wastewater Treatment Works classification I
(e) Operator of Record holds unexpired license of class required by Permit .....
Class held: III
(f) Copy of certificate of Operator of Record displayed on-site ..... N/A
(g) Minimum operator staffing requirements fulfilled ..... Y
(h) Routine and preventative maintenance scheduled and performed ..... Y
(i) Any major equipment breakdown since last inspection ..... N
(j) Operation and maintenance manual provided and maintained ..... N/E
(k) Any plant bypasses since last inspection ..... N
(l) Regulatory agency notified of bypasses ..... N/A
By MOR ☐ and/or Spill Hotline (1-800-282-9378) ☐
(m) Any hydraulic or organic overloads since last inspection ..... Y

Comments:

Compliance Data for Mt Hope WWTP between 6/1/2012 to 5/31/2013

Summary

Permit Effluent Limit Violations: 6
Permit Effluent Code Violations: 0
Permit Effluent Frequency Violations: 0

Limit Violations						
Reporting Period	**Station**	**Parameter**	**Limit Type**	**Limit**	**Reported Value**	**Violation Date**
April 2012	001	Phosphorus, Total (P)	30D Conc	1.0	1.07	4/1/2012
May 2012	001	Phosphorus, Total (P)	30D Qty	0.083	.09593	5/1/2012
June 2012	001	Phosphorus, Total (P)	30D Conc	1.0	1.055	6/1/2012
June 2012	001	Phosphorus, Total (P)	30D Qty	0.083	.08719	6/1/2012
February 2013	001	Total Suspended Solids	30D Qty	1.0	1.02	2/1/2013
February 2013	001	CBOD 5-day	30D Qty	0.8	1.136	2/1/2013

Overall Summary	
Total Limit Violations	6
Months with Limit Violations	3
Frequency Violations	0
Code Violations	0
Missing DMRs	0
Missing/Upcoming Milestones	0
SSO Events	0
SNC between 11/1/2012 to 4/30/2013	No

Flows between 6/1/2012 and 5/31/2013	
Percentile	Flow Rate (MGD)
Minimum	0.0014
10%	0.008
20%	0.01
30%	0.011
40%	0.015
50%	0.016
60%	0.018
70%	0.02
80%	0.022
90%	0.026
Maximum	0.2
Design Flow (MGD)	0.022
% Exceeding Design	19.45%

SECTION G: RECORD KEEPING

a) Log book provided ..... Y
b) Format of log book (i.e. computer log, hard bound book) Hardbound
c) Log book(s) kept onsite in an area protected from weather ..... Y
d) Log book contains the following:
   i) Identification of treatment works ..... N
   ii) Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7 ..... N/E
   iii) Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs) ..... Y
   iv) Laboratory results (unless documented on bench sheets) ..... N
   v) Identification of person making log entries ..... Y
e) Has the Operator of Record submitted written notification to the permittee, Ohio EPA and any applicable local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred? ..... N/A

Comments:

SECTION H: COLLECTION SYSTEM

a) Percent combined system: 0%
b) Any collection system overflows since last inspection ..... N
   CSO ☐ SSO ☐
c) Regulatory agency notified of overflows ..... N/A
d) CSO O&M plan provided and implemented. ..... N/A
e) CSOs monitored and reported in accordance with permit ..... N/A
f) Portable pumps are used to relieve system ..... N
g) Lift station alarms provided and maintained ..... N/E
h) Lift stations equipped with permanent standby power or equivalent ..... N/E
i) Is there an inflow/infiltration problem (separate sewer system), or were there any major repairs to collection system since last inspection ..... N
j) Any complaints received since last inspection of basement flooding ..... N
k) Are any portions of the sewer system at or near capacity ..... N/E
l) Are operations changed during high-flow events? ..... Y

Comments:

Because of periodic high flow (19% above ADDF), sludge levels in the clarifier have to be closely watched and wasting is done to prevent washout of sludge to the sand filters.

SECTION I: SLUDGE MANAGEMENT

a) Sludge management plan (SMP) last audited by Ohio EPA:
Audit Date:
b) Sludge adequately disposed ..... Y
Method:
c) If sludge is incinerated, where is ash disposed of ..... N
d) Is sludge disposal contracted ..... N
Name:
e) Has amount of sludge generated changed significantly ..... N
f) Adequate sludge storage provided at plant ..... Y
g) Records kept in accordance with State and Federal law ..... N/E
h) Any complaints received last year regarding sludge ..... N
i) Is sludge adequately processed (digestion, pathogen control) ..... Y

SECTION J: SELF-MONITORING PROGRAM

a) Primary flow measuring device operated and maintained ..... Y
Type of device: WEIR Device location: EFFLUENT
b) Calibration frequency adequate ..... Y
Date of last calibration: May 2013
c) Secondary instruments operated and maintained ..... N/A
d) Flow measurements equipment adequate to handle full range of flows ..... Y
e) Actual flow discharged is measured ..... Y
f) Flow measuring equipment inspection frequency Monthy
g) Sampling location(s) are as specified by permit ..... Y
h) Parameters and sampling frequency agree with permit ..... Y
i) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e. continuous monitoring instrumentation, calibration and maintenance records) ..... Y

SECTION K: EFFLUENT/RECEIVING WATER OBSERVATIONS

Outfall Number	Outfall sign in place	Oil Sheen	Grease	Turbidity	Foam	Solids	Color	Other
001	Y	N	N	N	N	N	N	

Comments: