



**Environmental
Protection Agency**

John R. Kasich, Governor

Mary Taylor, Lt. Governor

Scott J. Nally, Director

July 6, 2012

RE: BOLINGBROOK WWTP
PERMIT NO. 3PH00035
PORTAGE COUNTY
SHALERSVILLE TOWNSHIP

Mr. Wayne A. Carkido
Wastewater Division Manager
Portage County Water Resources
449 S. Meridian Street
Ravenna, Ohio 44266

Dear Mr. Carkido:

On June 19, 2012, an inspection of the above referenced facility was conducted. The facility was represented by Mr. Don West, Class IV Superintendent and you. The purpose of the inspection was to: (1) evaluate the performance of the wastewater treatment system along with the facility's compliance status with respect to the terms and conditions of the above-referenced National Pollutant Discharge Elimination System (NPDES) permit and (2) determine required additional actions to be undertaken as part of the permit renewal process.

During the inspection, the following items were noted/discussed:

1. The plant design of the wastewater treatment system is 128,000 gpd.
2. The treatment system is equipped with a manual bar screen.
3. The blowers were running and the plant was receiving good aeration.
4. Two new Kaeser blowers were installed since the last inspection. The units were installed individually approximately two and three years ago.
5. The facility is equipped with two sludge digesters. Only one digester is being used. The sludge digester in use was being aerated.
6. The contents of the aeration tank were medium brown in color and no foam was present.
7. Both sludge return lines were working properly and were returning medium brown water.
8. The settling tank is manually skimmed. The discharge from the skimmer line is routed to the trash trap of the digester. This material is then hauled to Streetsboro wastewater treatment plant for ultimate disposal.
9. The weirs in the settling tank were free of scum/solids build-up.
10. Minimal floating solids were present in the settling tank.
11. The treatment system has two IDI automatic backwash tertiary sand filters. Both were operational. New filter media was recently added to one filter.
12. The treatment system is also equipped with a four bank Ultraviolet disinfection unit. The system was functioning properly.
13. The temperature reading in the automatic sampler was 4.5 degrees centigrade. The temperature should read 4.0 degrees centigrade. You indicated that the automatic samplers are calibrated on a regular basis.

14. The discharge was clear.
15. Flow is monitored with a Sigma Ultrasonic flow meter.
16. The facility is equipped with a back-up generator.
17. Please note the following includes some of the changes which will be made to the facility's NPDES permit:
 - A. A schedule of compliance will be placed in the permit renewal which requires the facility to meet E. Coli limits in the final table for outfall monitoring station 3PH00035001.
 - B. Nitrite plus nitrate, total monitoring will be added to station 3PH00035001.
 - C. Total dissolved solids monitoring will be added to station 3PH00035001.
 - D. Sampling station 3PH00035581 and 3PH00035586 will be removed.
 - E. This office is in receipt of the mercury variance request for this facility. The document is currently being reviewed for completeness. If found satisfactory, mercury variance language will be incorporated into the facility's permit renewal.
18. Once the facility's renewal permit is drafted it will also be public noticed. During public notice, you will have a 30-day period to evaluate your permit and comment in writing any concerns you may have.

This office has recently reviewed your self-monitoring reports covering the period November 1, 2008 through May 31, 2012, for the referenced facility. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are as follows:

Frequency Violations

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	00530	Total Suspended Solids	2/Week	2	1	11/22/2011
001	80082	CBOD 5 day	2/Week	2	1	11/22/2011

Code Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
901	31616	Fecal Coliform			AK	6/9/2010
801	00010	Water Temperature			AF	12/1/2010
801	00610	Nitrogen, Ammonia (NH3)			AF	12/1/2010
801	00400	pH			AF	12/1/2010
801	00300	Dissolved Oxygen			AF	12/1/2010
901	00010	Water Temperature			AF	12/1/2010
901	00610	Nitrogen, Ammonia (NH3)			AF	12/1/2010
901	00400	pH			AF	12/1/2010
901	00300	Dissolved Oxygen			AF	12/1/2010

No numeric violations were noted.

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Please be advised that such instances of noncompliance may be cause for enforcement actions pursuant to the Ohio Revised Code, Chapter 6111.

Should you have any comments or questions concerning this letter, please feel free to call me at (330) 963-1143.

Respectfully,

A handwritten signature in cursive script that reads "Michael W. Stevens".

Michael W. Stevens
Environmental Engineer
Division of Surface Water

MWS/cs