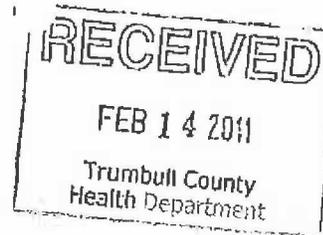




Environmental  
Protection Agency

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



February 11, 2011

RE: TRUMBULL COUNTY  
BRACEVILLE TOWNSHIP  
MAPLEWOOD HIGH SCHOOL  
WWTP INSPECTION  
(NPDES PERMIT 3PT00078)

Ms. Beverly Hoagland, Superintendent  
Maplewood Local School District  
2414 Greenville Road N.E.  
Cortland, OH 44410

Dear Ms. Hoagland:

On January 12, 2011, a Compliance Evaluation Inspection (CEI) was conducted at the Maplewood High School wastewater treatment plant (WWTP). Present during the inspection was Mr. Floyd Finch, representing the school system, and this writer, of the Ohio EPA.

The purpose of the visit was to evaluate the WWTP operation and maintenance, as well the facility's compliance with NPDES Permit effluent limits and conditions. The most recent CEI conducted at the Maplewood High School WWTP was April 7, 2009.

At the time of the January 12<sup>th</sup> inspection, the following observations were made:

- 1) The trash trap was in use and contents were typical. Contents of the trash trap are pumped approximately twice per year.
- 2) The flow equalization chamber and pumps were in use and operating properly.
- 3) Contents of the extended aeration tank were being well aerated, and were medium brown in color. The return activated sludge (RAS) line was operational and returning medium brown sludge.
- 4) Blower Number 2 of 3 was out of service due to a bad switch.
- 5) Both upflow clarifiers were operational, and had clear water above the media.
- 6) The settling tank effluent trough was clean and free of solids, and the skimmer was operating and returning a clear liquid. Effluent from the tank was also clear and free of visible solids. There was a slight amount of floating solids on the surface of the settling tank contents.

- 7) Both pumps in the surface sand filter dosing station were in the 'AUTO' mode, and were operational when tested in the 'HAND' mode. The high level alarm was also operational when manually tested. Daily flow for the WWTP is estimated based upon readings from totalizers located in the dosing station electrical control panel box.
- 8) The surface sand filters were in use, and flow was being directed to the west cell when being dosed. The sand in the east cell was snow covered, and a portion of the sand in the west cell contained ice and snow. There was some leakage of water from the south end of the sand filter wall joints.
- 9) The Aerated Sludge Holding tank was approximately ¼ full, and was being aerated.
- 10) The Ultra Violet disinfection unit was not operational, as disinfection of the effluent is not required for the period of November 1<sup>st</sup> through April 30<sup>th</sup>.
- 11) Treated effluent from the WWTP was being discharged to a nearby ditch, and the effluent was clear and visually free of solids.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the WWTP for the period of April 1, 2009 through January 1, 2011, found the following numeric effluent limit violations for the facility:

**MAPLEWOOD HIGH SCHOOL  
 NUMERIC EFFLUENT VIOLATIONS  
 NPDES PERMIT 3PT00078  
 (APR. 1, 2009 – JAN. 1, 2011)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2009	Fecal Coliform	30D Conc	200	5400.	6/1/2009
June 2009	Fecal Coliform	1D Conc	400	5400.	6/17/2009
August 2009	Fecal Coliform	30D Conc	200	1000.	8/1/2009
August 2009	Fecal Coliform	1D Conc	400	1000.	8/19/2009
December 2009	Nitrogen, Ammonia (NH3-N)	30D Conc	3.0	9.09	12/1/2009
December 2009	Nitrogen, Ammonia (NH3-N)	1D Conc	4.5	9.09	12/8/2009
June 2010	Total Suspended Solids	30D Conc	12	53.	6/1/2010
June 2010	Total Suspended Solids	30D Qty	0.45	1.33603	6/1/2010
June 2010	Total Suspended Solids	1D Conc	18	53.	6/3/2010
June 2010	Total Suspended Solids	1D Qty	0.67	1.33603	6/3/2010
June 2010	Dissolved Oxygen	1D Conc	6.0	.66	6/3/2010

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 Maplewood Local School District  
 February 11, 2011  
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Monthly data for the same time period also revealed the following reporting frequency violations:

**MAPLEWOOD HIGH SCHOOL  
 REPORTING FREQUENCY VIOLATIONS  
 NPDES PERMIT 3PT00078  
 (APR. 1, 2009 – JAN. 1, 2011)**

Reporting Period	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
June 2009	00056	Flow Rate	1/Day	1	0	06/23/2009
December 2009	00010	Water Temperature	1/Week	1	0	12/01/2009
December 2009	00010	Water Temperature	1/Week	1	0	12/08/2009
December 2009	00010	Water Temperature	1/Week	1	0	12/15/2009
December 2009	00010	Water Temperature	1/Week	1	0	12/22/2009
May 2010	00010	Water Temperature	1/Week	1	0	05/01/2010
May 2010	00010	Water Temperature	1/Week	1	0	05/08/2010
May 2010	00010	Water Temperature	1/Week	1	0	05/15/2010

During the January 12<sup>th</sup> inspection, the following items were also discussed:

- 1) Mr. Finch indicated that since the last inspection, the lateral running from the school to the WWTP was replaced.
- 2) As a result of the installation of a new stormwater retention basin in the vicinity of the WWTP, a new manhole was installed adjacent to the WWTP. The effluent from the WWTP was redirected to the new manhole, prior to discharging to the receiving ditch at the same location.
- 3) Effluent samples are collected either by John Brown or Floyd Finch, in bottles provided by Cardinal Labs. Samples are collected and returned to the laboratory in the same day, and a chain of custody form is utilized for the sample collection, transfer, and analysis.
- 4) The licensed technical supervisor for the WWTP is Mr. Scott Mascioli, Class I Wastewater Operator.
- 5) The leaking surface sand filter walls need to be repaired to stop the leak as soon as weather permits.
- 6) The NPDES permit is being renewed, and should be public noticed sometime late February 2011.

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Maplewood Local School District  
February 11, 2011  
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A copy of this inspection report is being forwarded to the Trumbull County Health Department. If you have any comments or questions about this document, you may contact me at (330) 963-1110.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/mt

cc: Trumbull County Health Dept.