



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

November 16, 2012

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

Mr. Perry Nicholas, Superintendent
Maplewood Local School District
2414 Greenville Road N.E.
Cortland, OH 44410

Dear Mr. Nicholas:

A Compliance Evaluation Inspection (CEI) was conducted at the Maplewood High School wastewater treatment plant (WWTP) on October 25, 2012. The High School is located at 2414 SR 88, Cortland. Present during the inspection was Mr. John Brown, 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 January 12, 2011.

At the time of the October 25 inspection, the following observations were made:

- 1) Contents of the trash trap were typical, and not in need of pumping. The trash trap is pumped approximately twice yearly, and was last pumped by A-1 Drain on August 3, 2012.
- 2) The flow equalization(EQ) chamber contents were grey and well aerated. Both pumps were in use and operating properly. The EQ high water alarm was operational when manually tested.
- 3) There are 3 blower/motors at the WWTP. Blower #1 was not in operation at the time of the inspection. Blower/motor #2 (extended aeration tank) was in operation, as was blower/motor #3 (flow EQ). Motor drive belts were in good condition, and the air pressure relief valves were operational.
- 4) The extended aeration tank contents were medium brown in color and were being well aerated. The return activated sludge (RAS) line was returning light brown sludge.
- 5) One of two upflow clarifiers (west cell) was in operation, and had clear water above the media.

- 6) The settling tank contents were typical, and the effluent trough was clean and free of solids. The skimmer was operating and returning a clear liquid, and effluent from the tank was clear and free of visible solids.
- 7) Both sand filter dosing station pumps were in the 'AUTO' mode, and were operational when manually tested. The high level alarm was also operational when manually tested.
- 8) WWTP flow is estimated daily utilizing readings from totalizers located in the dosing station electrical control panel box.
- 9) The east cell of the surface sand filter was in use, and contained some vegetative growth. The west cell contained a greater amount of vegetative growth.
- 10) The Aerated Sludge Holding tank was full of medium brown liquid/sludge, and was being well aerated.
- 11) The Ultra Violet disinfection unit was in operation, and standing water in the effluent trough was clear and visually free of solids. The UV bulbs are cleaned manually, and were last changed in June 2012.
- 12) There was no effluent discharge at the time of the inspection.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the WWTP for the period of September 1, 2011, through November 1, 2012, found the following numeric effluent limit violations for the facility:

**FIRELANDS ELEMENTARY AND HIGH SCHOOLS
NPDES PERMIT (3PT00095)
FINAL EFFLUENT NUMERIC VIOLATIONS
(SEP. 1, 2011 – NOV. 1, 2012)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
April 2012	Nitrogen, Ammonia (NH3-N)	30D Conc	3.0	25.5	4/1/2012
April 2012	Nitrogen, Ammonia (NH3-N)	7D Conc	4.5	25.5	4/1/2012
April 2012	CBOD 5 day	30D Conc	10	16.4	4/1/2012
April 2012	CBOD 5 day	7D Conc	15	16.4	4/1/2012
April 2012	Dissolved Oxygen	1D Conc	6.0	5.9	4/11/2012
May 2012	Nitrogen, Ammonia (NH3-N)	30D Conc	1.0	3.95	5/1/2012

During the October 25 inspection, the following items were also discussed:

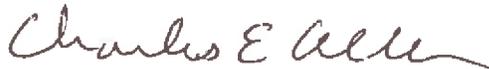
- 1) Effluent samples are collected by John Brown, in bottles provided by Cardinal Labs. Samples are collected and returned to the laboratory in the same day, and a chain of custody form is utilized for the sample collection, transfer, and analysis.

MR. PERRY NICHOLAS, SUPERINTENDENT
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- 2) The licensed technical supervisor for the WWTP is Mr. Scott Mascioli, Class I Wastewater Operator.
- 3) The leaking surface sand filter walls need to be repaired to stop the leak as soon as weather permits.
- 4) The NPDES permit is being renewed, and should be public noticed sometime late February 2001.

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:bo

pc: Trumbull County Health Dept.