



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

November 19, 2012

RE: TRUMBULL COUNTY
BRISTOLVILLE TOWNSHIP
BRISTOL LOCAL SCHOOLS
WWTP INSPECTION
(NPDES PERMIT 3PT00065)

Mr. Marty Santillo, Superintendent
Bristol Local School District
1845 Greenville Road
PO Box 260
Bristolville, OH 44402

Dear Mr. Santillo:

A Compliance Evaluation Inspection (CEI) was conducted at the Bristol Local Schools wastewater treatment plant (WWTP) on October 25, 2012. The Bristol Local Schools complex is located at 1845 Greenville Road, Bristolville. Present during the inspection was Mr. Roger Prior, 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 National Pollutant Discharge Elimination System (NPDES) Permit effluent limits and conditions. The previous CEI conducted at the Bristol Local Schools WWTP was January 12, 2011.

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

- 1) Contents of the trash trap were typical, and not in need of pumping. The trash trap was last pumped at the end of summer by A-1 Drain.
- 2) The flow equalization tank was in use and operating satisfactorily. There are two pumps in the flow equalization tank. The #1 pump was found in the 'HAND' position, while the #2 pump was in the 'AUTO' position. Mr. Prior indicated the #1 pump had been recently replaced and that both pumps are typically pulled out and cleaned on a monthly basis.
- 3) Contents of the extended aeration tanks were dark brown and well aerated. The return activated sludge (RAS) line for the east side of the aeration tank was operational, and returning medium brown sludge. The RAS line for the west side of the aeration tank was not operating at the time of the inspection.

According to Mr. Prior, the Mixed Liquor Suspended Solids (MLSS) in the aeration tanks settle to approximately 45% on a 30-minute settling test of the aeration tank contents.

- 4) Three blower/motors provide air for the flow equalization and extended aeration tanks. Blower/motors #1 and #2 are used for the aeration tanks, while blower/motor #3 is used for the flow equalization tank. The blowers are on timers, with an on/off cycle of 1 to 2 hours at a time.

- 5) Both of the upflow clarifiers were in use, with clear water seen above the media. The effluent troughs of the upflow clarifiers did contain some mossy growth.
- 6) The settling tank contents were typical, and the effluent trough contained a small amount of solids. The skimmer was operating, returning a clear liquid to the aeration tanks.
- 7) Both surface sand filter dosing station pumps were in the 'AUTO' position, and were operational when manually tested. The high level alarm was operational, as well, when manually tested.
- 8) Both sand filter cells contained a slight amount of vegetation and traces of dried solids, and the west cell was in use when the filter was dosed. **The sand in both cells needed to be raked level.**
- 9) The Aerated Sludge Holding tank was full, and its contents were light brown.
- 10) Disinfection of the effluent is accomplished by tablet chlorination/dechlorination. Both chlorination and dechlorination units are four tube units, and both units contained only two tubes with caps. The tubes did contain appropriate tablets.
- 11) At the time of the inspection, there was no effluent being discharged from the WWTP. However, contents of the disinfection tank were visually clear and free of solids.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the Bristol Local Schools WWTP for the period of January 1, 2011, through October 1, 2012, found the following effluent limit violations for the facility:

**BRISTOL LOCAL SCHOOL DISTRICT
 NUMERIC EFFLUENT VIOLATIONS
 NPDES PERMIT 3PT00065
 (JAN. 1, 2011 – OCT. 1, 2012)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
September 2012	Nitrogen, Ammonia (NH3-N)	30D Conc	1.0	18.1	9/1/2012
September 2012	Nitrogen, Ammonia (NH3-N)	30D Qty	0.085	.41105	9/1/2012
September 2012	Nitrogen, Ammonia (NH3-N)	7D Conc	1.5	18.1	9/8/2012
September 2012	Nitrogen, Ammonia (NH3-N)	7D Qty	0.13	.41105	9/8/2012

The review of the eDMR's submitted for the WWTP for the same period found the following monitoring frequency violations for the facility:

**BRISTOL LOCAL SCHOOL DISTRICT
 REPORTING FREQUENCY VIOLATIONS
 NPDES PERMIT 3PT00065
 (JAN. 1, 2011 – OCT. 1, 2012)**

Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
May 2011	001	Chlorine, Total Residual	1/2Weeks	1	0	5/15/2011
March 2012	001	Water Temperature	1/Week	1	0	3/15/2012
March 2012	001	Dissolved Oxygen	1/Week	1	0	3/15/2012

Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
May 2012	001	Water Temperature	1/Week	1	0	5/22/2012
May 2012	001	Dissolved Oxygen	1/Week	1	0	5/22/2012
September 2012	001	Chlorine, Total Residual	1/2Weeks	1	0	9/15/2012

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

- 1) Average daily flow to the WWTP is approximately 6000 gpd, and the average daily design flow of the WWTP is 25,000 gpd,
- 2) There are approximately 700 persons (students and staff), grades K through 12, at the school complex.
- 3) Mr. Prior conducts daily pH and Dissolved Oxygen testing at the WWTP, as well as the Color, Odor, and Turbidity. Mr. Prior has a Class I Wastewater Operator's License, and is listed with Ohio EPA as the Certified Operator for the Bristol Schools WWTP.
- 4) Valley Environmental performs sample collection and analysis for the remaining samples collected at the WWTP.
- 5) Flows values reported for the WWTP are obtained using daily water usage records for the facility.
- 6) The NPDES permit – required operator log book was inspected and discussed with Mr. Prior. The log was kept in a spiral bound notebook. Mr. Prior was advised that the operator's log book should be a bound book, with sequentially numbered pages. Mr. Prior was also informed that the certified operator's log in and out times, along with signature or initials, also need to be contained within the log book on those days present.

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/cs

cc: Trumbull County Health Dept.