



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

April 30, 2009

RE: TRUMBULL COUNTY
BRISTOLVILLE TOWNSHIP
BRISTOL LOCAL SCHOOLS
(1845 GREENVILLE ROAD)
WWTP INSPECTION
(NPDES PERMIT 3PT00065)

CERTIFIED MAIL

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

Dear Mr. Santillo:

On April 7, 2009, a Compliance Evaluation Inspection (CEI) was conducted at the Bristol Local School wastewater treatment plant (WWTP), 1845 Greenville Road. Present during the inspection was Mr. Roger Prior, representing the school system, and this writer, of 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.

At the time of the inspection the maintenance of the plant could be rated as satisfactory. The following observations were made:

- 1) The trash trap was in use and its contents were typical.
- 2) The flow equalization chambers and pumps were in use and operating properly.
- 3) The extended aeration tank contents were medium brown in color, were being well aerated, and exhibited no surface foam or odor in the vicinity of the WWTP. The return activated sludge (RAS) line was operational and was returning medium brown sludge.
- 4) The WWTP utilizes two upflow clarifiers, but only one was being operated. The remaining upflow clarifier was out of service due to a bad pump.
- 5) The settling tank effluent trough contained a small amount of solids. The skimmer was properly adjusted and operating, and was returning a clear liquid. Effluent from the tank was clear, but contained a slight pinfloc.
- 6) Both pumps in the surface sand filter dosing station were on 'AUTO', and were operational when manually tested. The high level alarm was operational, as well, when manually tested.
- 7) The surface sand filters consist of 2 cells, of which the west cell was in use. The sand was raked level, and contained some vegetative growth on the sand filters.

- 8) The Aerated Sludge Holding tank was being aerated and the contents were medium brown.
- 9) Effluent disinfection is accomplished by a tablet chlorination/dechlorination unit. The unit was not operational, however, as disinfection of the effluent is not required for the period of November 1st through April 30th.
- 10) Treated effluent from the WWTP is discharged to Center Creek. Effluent was clear and visually free of solids.
- 11) Flow rate of the effluent being discharged from the WWTP is measured by an ultrasonic flow meter at the end of the effluent discharge pipe.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the WWTP for the period of December 1, 2007 through April 1, 2009, found the following effluent limit violations for the facility:

**BRISTOL LOCAL SCHOOL DISTRICT
 NUMERIC EFFLUENT VIOLATIONS
 NPDES PERMIT 3PT00065
 (DEC. 1, 2007 – APR. 1, 2009)**

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2008	001	Dissolved Oxygen	1D Conc	6.0	5.7	1/7/2008

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
 (DEC. 1, 2007 – APR. 1, 2009)**

Reporting Period	Parameter	Sample Frequency	Expected	Reported	Violation Date
December 2007	Dissolved Oxygen	1/Week	1	0	12/01/2007
December 2007	Turbidity, Severity	1/Day	1	0	12/03/2007
December 2007	pH	1/2Weeks	1	0	12/15/2007
December 2007	Dissolved Oxygen	1/Week	1	0	12/15/2007
December 2007	Dissolved Oxygen	1/Week	1	0	12/22/2007
January 2008	Color, Severity	1/Day	1	0	01/04/2008
January 2008	Turbidity, Severity	1/Day	1	0	01/31/2008
May 2008	Chlorine, Total Residu	1/2Weeks	1	0	05/15/2008
October 2008	Total Suspended Solids	1/Month	1	0	10/01/2008
October 2008	Nitrogen, Ammonia (NH3	1/Month	1	0	10/01/2008
October 2008	Fecal Coliform	1/Month	1	0	10/01/2008

Reporting Period	Parameter	Sample Frequency	Expected	Reported	Violation Date
October 2008	CBOD 5 day	1/Month	1	0	10/01/2008
October 2008	Chlorine, Total Residu	1/2Weeks	1	0	10/01/2008
October 2008	pH	1/2Weeks	1	0	10/01/2008
October 2008	Dissolved Oxygen	1/Week	1	0	10/01/2008
October 2008	Dissolved Oxygen	1/Week	1	0	10/08/2008
October 2008	Chlorine, Total Residu	1/2Weeks	1	0	10/15/2008
October 2008	pH	1/2Weeks	1	0	10/15/2008
October 2008	Dissolved Oxygen	1/Week	1	0	10/15/2008
October 2008	Dissolved Oxygen	1/Week	1	0	10/22/2008
October 2008	Color, Severity	1/Day	1	0	10/31/2008
October 2008	Odor, Severity	1/Day	1	0	10/31/2008
October 2008	Turbidity, Severity	1/Day	1	0	10/31/2008
October 2008	Flow Rate	1/Day	1	0	10/31/2008
December 2008	Dissolved Oxygen	1/Week	1	0	12/08/2008
December 2008	pH	1/2Weeks	1	0	12/15/2008
December 2008	Dissolved Oxygen	1/Week	1	0	12/15/2008
December 2008	Dissolved Oxygen	1/Week	1	0	12/22/2008
January 2009	Dissolved Oxygen	1/Week	1	0	01/22/2009
January 2009	Water Temperature	1/Week	1	0	01/22/2009

Please contact the person(s) responsible for sample collection, analysis, and reporting, to determine the actual status of the missing information. A written response to this correspondence should be submitted to this office within 10 days of its receipt.

During the April 7th inspection, the following items were also discussed:

- 1) Mr. Prior has a Class I Wastewater Operator's License. Another operator, Jerry Vasey, also works at the WWTP and has a Class I license.
- 2) At least one of the two operators visits the WWTP daily.
- 3) Valley Environmental performs sample collection at the WWTP, and submits results to Ohio EPA via SWIMS.
- 4) Mr. Prior (or Mr. Vasey) conducts daily pH and Dissolved Oxygen testing at the WWTP, as well as the Color, Odor, and Turbidity.
- 5) The average daily design flow of the WWTP is 25,000 gpd, while the average daily flow is approximately 5000 gpd.
- 6) There are approximately 780 persons (students and staff) at the school complex.
- 7) Solids need to be removed from the surface sand filters, and the settling tank effluent trough be kept free of solids.

Mr. Marty Santillo
Bristol Local School
April 30, 2009
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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,

A handwritten signature in cursive script that reads "Charles E. Allen".

Charles E. Allen
Environmental Engineer
Division of Surface Water

CEA/mt

cc: Trumbull County Health Dept.