

April 13, 2011

RE: TRUMBULL COUNTY
BAZETTA TOWNSHIP
BAZETTA CHRISTIAN CHURCH
WWTP INSPECTION
(NPDES PERMIT 3PR00249)

Bazetta Christian Church
Attn: Jim Nicula, Board Member
4131 Bazetta Road
Cortland, OH 44410

Dear Mr. Nicula:

On March 31, 2011, this writer conducted a Compliance Evaluation Inspection (CEI) at the Bazetta Christian Church wastewater treatment plant (WWTP). The church and WWTP are located at 4131 Bazetta Road, Bazetta Township.

The purpose of the inspection was to evaluate the WWTP operation and maintenance, as well the facility's compliance with NPDES Permit effluent limits and conditions. The most recent inspection of the WWTP was November 6, 2008.

At the time of the March 31st inspection, the following observations were made at the WWTP:

- 1) Contents of the trash trap were typical, and were not in need of pumping.
- 2) The flow equalization tank was approximately $\frac{1}{4}$ full of gray colored water, and was being well aerated. Contents of the flow equalization tank are dosed to the aeration tank by pumps activated by float switch.
- 3) Contents of the extended aeration tank were a watery brown color, with no foam present. The return activated sludge (RAS) line was returning an almost colorless water. Suspended solids concentrations in the aeration tank appeared to be very low.
- 4) The settling tank contents were slightly turbid and gray. The skimmer was operating, although it appeared to be adjusted too far below the surface of the water (it should be approximately $\frac{1}{4}$ inch below the water surface). The effluent trough was clean and free of solids.
- 5) The surface sand filter dosing station pumps were both in the 'AUTO' mode. When tested in the manual mode, both pumps were operational, as were the pump totalizer readouts on the electrical control box. The high level alarm was also operational when manually tested.
- 6) The south cell of the surface sand filters was in use. Both the north and south sand filter cells had the sand raked level, were free of any solids, and had some snow covering.
- 7) The effluent tablet chlorination and dechlorination units in the contact tank contained no tablets. It is noted that disinfection of the effluent is not required for the period of November 1st through April 30th.
- 8) Effluent from the WWTP was visually clear and free of solids or foam.

9) The sludge holding tank was full of grayish colored water and was not being aerated.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted to the Ohio EPA for the Bazetta Christian Church WWTP, for the period of November 1, 2008 through April 1, 2011, found the following numeric effluent violations for the facility:

**BAZETTA CHRISTIAN CHURCH
NUMERIC EFFLUENT VIOLATIONS
NPDES PERMIT NO. 3PR00249
(Nov. 1, 2008 through Apr. 1, 2011)**

<u>Reporting Period</u>	<u>Parameter</u>	<u>Limit Type</u>	<u>Limit</u>	<u>Reported Value</u>	<u>Violation Date</u>
December 2008	Nitrogen, Ammonia (NH3-N)	30D Conc	4.0	4.79	12/1/2008
June 2009	Nitrogen, Ammonia (NH3-N)	30D Conc	1.5	8.22	6/1/2009
June 2009	Nitrogen, Ammonia (NH3-N)	1D Conc	2.25	8.22	6/10/2009
August 2009	Nitrogen, Ammonia (NH3-N)	30D Conc	1.5	5.4	8/1/2009
August 2009	Nitrogen, Ammonia (NH3-N)	1D Conc	2.25	5.4	8/10/2009
December 2009	Nitrogen, Ammonia (NH3-N)	1D Conc	6.0	17.3	12/1/2009
December 2009	Nitrogen, Ammonia (NH3-N)	30D Conc	4.0	17.3	12/1/2009
December 2009	Nitrogen, Ammonia (NH3-N)	1D Qty	0.11	.3274	12/1/2009
December 2009	Nitrogen, Ammonia (NH3-N)	30D Qty	0.08	.3274	12/1/2009
March 2010	Nitrogen, Ammonia (NH3-N)	30D Conc	4.0	12.4	3/1/2010
March 2010	Nitrogen, Ammonia (NH3-N)	1D Conc	6.0	12.4	3/3/2010
August 2010	Dissolved Oxygen	1D Conc	6.0	1.3	8/2/2010

It is noted the NPDES Permit for this facility expired on February 28, 2011. An NPDES Permit renewal application was to have been submitted to this Agency 6 months prior to the expiration date. Please find enclosed a renewal application which should be completed, and submitted to this office within 14 days of the receipt of this correspondence.

Please respond to this office, in writing, as to what steps will be taken to try and correct the chronic ammonia exceedences of the NPDES Permit limits.

Proper operation and maintenance practices should continue to be implemented, which will enable the WWTP to continuously meet its NPDES Permit effluent limits.

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.