



**Environmental
Protection Agency**

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

April 30, 2012

RE: GEAUGA COUNTY
BAINBRIDGE TWP
GARDINER EARLY LEARNING CENTER WWTP AND
KENSTON INTERMEDIATE/KENSTON MIDDLE SCHOOL
COMPLIANCE EVALUATION INSPECTION
OHIO EPA PERMIT NO. 3PT00051

Dr. Robert A. Lee, Superintendent
Kenston Local Schools
17419 Snyder Road
Chagrin Falls, OH 44023

Dear Mr. Lee:

On April 17, 2012, a Compliance Evaluation Inspections were conducted at the Gardiner Early Learning Center wastewater treatment plant (WWTP) and the Kenston Intermediate School/Kenston Middle School WWTP. The purpose of the inspections was to observe the operations and maintenance of the WWTPs, and to determine whether the facilities have been in compliance with their National Pollutant Discharge Elimination System (NPDES) permits.

According to our files, the Gardiner Early Learning Center WWTP consists of a 1500-gallon trash trap, 5500-gallon equalization tank, 10,000-gallon extended aeration plant with clarifier, 1000-gallon dosing tank, 850 square foot surface sand filter, 950-gallon chlorination/dechlorination tank and a 2000-gallon aeration sludge holding tank.

During the recent inspection of the Gardiner Early Learning Center WWTP, the following observations and/or deficiencies were made:

1. The flow equalization tank was being properly aerated.
2. The mixed liquor in the extended aeration tank was receiving adequate aeration, but was very light brown in color rather than the appropriate chocolate brown. This may be due to the system being underloaded. The skimmer return line and the sludge return line were also light brown in color.
3. The skimmer in the clarifier appeared to be set too low in elevation. There was lots of duckweed behind the clarifier baffle, and there were some solids overflowing the clarifier weir.
4. The surface sand filters were covered by a black fabric to help prevent weeds. There were some weeds around the edges of the fabric which need removed.
5. The effluent in the disinfection tank appeared clear of visible solids.
6. At the discharge pipe, the receiving stream appeared clear and contained no evidence of sludge deposits.

According to our files, the Kenston Intermediate School/Kenston Middle School WWTP consists of a 4500-gallon trash trap, 16,500-gallon equalization tank, 30,000-gallon extended aeration plant with clarifier, 3000-gallon dosing tank, 2500 square foot surface sand filter, UV disinfection, 3000-gallon aerated sludge holding tank and 1000-gallon scum tank.

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KENSTON INTERMEDIATE/KENSTON MIDDLE SCHOOL
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During the recent inspection, the following observations and/or deficiencies were made:

1. The contents in the equalization tank appeared light green in color and contained some duckweed.
2. One side of the extended aeration treatment plant appeared to be receiving inadequate aeration compared to the other side. The liquid level in one section of the aeration tank seemed too high in elevation. The sludge return lines and the skimmer return lines were operating.
3. The clarifiers had solids and duckweed proceeding over the weirs.
4. The surface sand filters were covered with black fabric to prevent weed growth. There were some weeds around the edges of the fabric and growing through the fabric which should be removed. There were also black dried solids on top of the fabric which should be removed. It appears that the distribution arms have been replaced.
5. The UV tank contained green algae and duckweed.

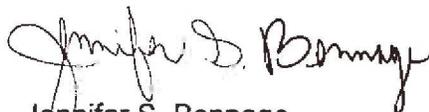
Upon review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the plants from February 2010 through February 2012, the following effluent violations were noted:

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2010	001	CBOD 5 day	30D Conc	10	15.	8/1/2010
August 2010	001	Chlorine, Total Residu	1D Conc	0.019	.2	8/2/2010
June 2011	001	Chlorine, Total Residu	1D Conc	0.019	.05	6/1/2011
June 2011	001	Chlorine, Total Residu	1D Conc	0.019	.08	6/16/2011
August 2011	001	CBOD 5 day	30D Conc	10	17.	8/1/2011
August 2011	001	CBOD 5 day	7D Conc	15	17.	8/15/2011

Please be advised such instances of noncompliance are subject to enforcement pursuant to Ohio Revised Code (ORC) 6111.

In conclusion, the WWTPs appeared to be in satisfactory operation and maintenance condition. However, this office would like the plants' certified operator to provide a written explanation and correction plan concerning the above mentioned deficiencies. If you have any questions concerning this letter, please contact this office at (330) 963-1151.

Sincerely,



Jennifer S. Bennage
Environmental Engineer
Division of Surface Water

JSB/cs

cc: Geauga County Health Department
Frank Novotny, Maintenance Foreman, Kenston Local Schools