

**Environmental  
Protection Agency**

**Governor  
Lt. Governor  
Director**

October 27, 2011

RE: LORAIN COUNTY  
CARLISLE TOWNSHIP  
FOREST HILLS GOLF COURSE  
41971 OBERLIN-ELYRIA RD.  
NPDES No. 3PZ00055

Lorain County Metro Parks  
12882 Diagonal Road  
LaGrange, OH 44050  
ATTN: Jim Ziemnik

Dear Mr. Ziemnik:

On October 18, 2011, this writer, and Mr. John Sabo of the Lorain County Health Department, conducted a Compliance Evaluation Inspection (CEI) on the wastewater treatment plant (WWTP) serving the Forest Hills Golf Course, located at 41971 Oberlin-Elyria Road, Carlisle Township, Lorain County.

The purpose of the inspection was to evaluate the WWTP operation and maintenance, as well as the facility's compliance with its NPDES Permit effluent limits. The NPDES Permit for the facility went effective on September 1, 2009. A previous operation and maintenance inspection was conducted on the WWTP on March 5, 2009.

At the time of the October 18<sup>th</sup> inspection, the following observations were made:

- 1) The trash trap was in use and its contents were typical.
- 2) The aeration tank was being well aerated, and its contents were a greasy looking, medium brown color. The return sludge line was operating and returning colorless water.
- 3) The settling tank contents were clear, and the skimmer line was operating, returning a small trickle of water. The settling tank effluent trough contained some moss and algal growth.
- 4) The pumps in the sand filter dosing station were set in 'AUTO' mode, and were operational when tested manually. The pump station control panel contained pump use totalizer meters for determining estimated daily flow rates.
- 5) The surface sand filter west cell was in use, and contained slight weed growth. The east filter cell was not in use, and the sand was level and free of solids or vegetation.
- 6) The chlorination / dechlorination disinfection units were in use and contained tablets.

7) Effluent from the WWTP was clear and visually free of solids.

A review of the WWTP operating data for the period of September 1, 2009, through October 1, 2011, was conducted prior to the inspection. The electronic Discharge Monitoring Report (eDMR) data for that period found the following NPDES Permit numeric effluent violations for the Forest Hills Golf Course:

**FOREST HILLS GOLF COURSE**  
**NPDES PERMIT NO. 3PZ00055**  
**NUMERIC EFFLUENT LIMIT VIOLATIONS**  
**(SEP. 1, 2009 – OCT. 1, 2011)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2010	Chlorine, Total Residual	1D Conc	0.019	31.	8/1/2010
December 2010	Chlorine, Total Residual	1D Conc	0.019	.41	12/7/2010
June 2010	Chlorine, Total Residual	1D Conc	0.019	.43	6/21/2010
March 2011	Chlorine, Total Residual	1D Conc	0.019	5.	3/28/2011
August 2011	Chlorine, Total Residual	1D Conc	0.019	1.	8/1/2011

A review of the eDMR data for the same period also found the following reporting frequency or reporting code violations:

**FOREST HILLS GOLF COURSE**  
**NPDES PERMIT NO. 3PZ00055**  
**REPORTING FREQUENCY VIOLATIONS**  
**(SEP. 1, 2009 – OCT. 1, 2011)**

Reporting Period	Parameter	Sample Frequency	Expected	Reported	Violation Date
December 2009	Total Suspended Solids	1/Quarter	1	0	12/01/2009
December 2009	Nitrogen, Ammonia (NH3-N)	1/Quarter	1	0	12/01/2009
December 2009	Fecal Coliform	1/Quarter	1	0	12/01/2009
December 2009	CBOD 5 day	1/Quarter	1	0	12/01/2009
December 2009	Chlorine, Total Residual	1/Quarter	1	0	12/01/2009
December 2009	pH	1/Quarter	1	0	12/01/2009
December 2009	Dissolved Oxygen	1/Quarter	1	0	12/01/2009
March 2010	Total Suspended Solids	1/Quarter	1	0	03/01/2010
March 2010	Nitrogen, Ammonia (NH3-N)	1/Quarter	1	0	03/01/2010
March 2010	Fecal Coliform	1/Quarter	1	0	03/01/2010
March 2010	CBOD 5 day	1/Quarter	1	0	03/01/2010
March 2010	Chlorine, Total Residual	1/Quarter	1	0	03/01/2010
March 2010	pH	1/Quarter	1	0	03/01/2010
March 2010	Dissolved Oxygen	1/Quarter	1	0	03/01/2010
January 2011	Odor, Severity	1/Week	1	0	01/22/2011

LORAIN COUNTY  
NPDES NO. 3PZ00055  
FOREST HILLS GOLF COURSE  
OCTOBER 27, 2011  
PAGE 2

Items which need operation / maintenance attention are:

- 1) The return sludge line liquid should be brown in color, not clear. This may be an indication that solids short-circuiting is occurring in the settling tank. The sides of the settling tank should be scraped down, to ensure all solids are settling and available for return to the aeration tank.
- 2) The effluent trough in the settling tank should have any moss or algal growth removed from the trough.
- 3) The skimmer line was returning only a trickle of water. The skimmer in the settling tank was adjusted slightly high, and should be lowered to approximately  $\frac{1}{4}$  inch below the water surface.
- 4) Any vegetative growth or solids in the surface sand filters should be removed and disposed of properly.
- 5) Closer watch should be kept on the tablet supply in the dechlorination unit. Violation of the chlorine residual limits is caused by lack of proper dechlorination tablet supply in the unit.

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

If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/cs

Cc: Lorain County Health Department  
ATTN: John Sabo