

**Environmental
Protection Agency**

Governor
Lt. Governor
Director

November 14, 2012

RE: GEAUGA COUNTY
CLARIDON TWP.
HOWARD BATES
CLARIDON PROPERTIES LLC
NPDES# 3PTOO105

Mr. Howard Bates
Claridon Properties LLC
14581 Burton Windsor Road
Burton, Ohio 44021

Dear Mr. Bates:

On November 6, 2012, this writer conducted an inspection of the sewage treatment plant serving the above referenced facility. The intent of the inspection was to review operations and maintenance of the sewage treatment system and review compliance with the current NPDES permit.

According to Agency records, the wastewater treatment system was installed under Ohio EPA PTI 02-15908, which was effective March 29, 2002. The wastewater system consists of a 1,000 gallon trash trap, 2,181 gallon flow equalization, 4,000 gallon extended aeration system, 336 ft² surface sand filters (equally divided into two beds), chlorination/dechlorination and a 1,000 gallon aerated sludge holding tank. The wastewater treatment plant discharges to an unnamed tributary of the East Branch of the Cuyahoga River.

At the time of the inspection, the wastewater treatment plant was well maintained and was producing what appeared to be a satisfactory quality effluent.

NPDES PERMIT COMPLIANCE

According to the discharge monitoring report data from November 1, 2010 through October 31, 2012, the flow reported averaged 377 gpd. The design flow of the wastewater treatment system is 14,000 gpd. The facility currently serves 10 office employees. As such, the wastewater treatment plant is underloaded. Discharge monitoring report data was reviewed for compliance with the current NPDES permit. A violation summary for the above noted review period is shown below:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2011	001	00300	Dissolved Oxygen	1D Conc	6.0	5.6	8/2/2011
December 2011	001	00530	Total Suspended Solids	30D Conc	12	13.	12/1/2011

It appears the treatment plant is operating at low flow conditions most of the time.

The wastewater treatment plant is currently classified by the Ohio EPA as a Class A wastewater treatment works. This classification is located in the NPDES permit which was effective March 1, 2011. According to our records, Paul Eaton is listed as the Operator of Record for the facility.

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INSPECTION SUMMARY

Below are the findings and recommendations from the inspection:

The flow equalization tank was in satisfactory condition and was provided with adequate air circulation. The blowers were in operation at the time of the inspection and appeared to be providing a satisfactory air supply to both the flow equalization tank and the aeration tank. The contents of the aeration portion of the plant were a chocolate brown color and there was satisfactory rollover within the tank. The clarifier appeared to be in satisfactory condition. There was some accumulation of solids in the tank. The sludge return line was in operation and returning a clear colored liquid to the aeration tank. The system is underloaded which can impact the solids balance in the system.

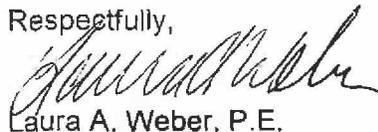
The dosing chamber was in good condition and both pumps were operational. The sand filter beds were in operation and in need of maintenance. The north filter was flooded and the south filter media was covered in a blanket of sludge. The condition of the filters is most likely due to the heavy rains experienced in the storm events which occurred recently. The filters should drain effectively and flooding of the filter beds should not be occurring regularly. Please notify this office if the flooding of the filter beds does not improve as this may indicate a more significant problem exists with the filters. The solids must be removed from the filter media to ensure proper treatment occurs. All discarded and raked solids must be removed offsite or stored in a dumpster until removal offsite occurs. The system was not disinfecting at the time of the inspection because it is outside of disinfection season. The final effluent appeared to be clear.

SUMMARY

This office recommends you review the sand filter operations and maintenance to ensure the units operate effectively. There is the possibility of clogged underdrains due to the flooding conditions noted during the inspection. Please provide a notification to this office regarding the status of the sand filters as soon as possible, but no later than December 15, 2012.

If you have any questions or comments regarding this letter, please contact this office at (330) 963-1299.

Respectfully,



Laura A. Weber, P.E.
Environmental Engineer
Division of Surface Water

LAW:bo

pc: Geauga County Health Department