

Environmental  
Protection Agency

\_\_\_\_ Governor  
\_\_\_\_ Lt. Governor  
\_\_\_\_ Director



September 14, 2011

**RE: GEAUGA COUNTY  
CLARIDON TWP  
JACQUES MHP  
NPDES # 3PV00007  
COMPLIANCE INSPECTION  
EVALUATION**

Mr. Mark Coleman  
Managing Member of General Partnership  
990 Beach Avenue, Suite 114  
Vancouver, B.C., Canada V6Z 2N9

Dear Mr. Coleman:

On September 1, 2011, this writer conducted an inspection of the sewage treatment plant serving the above referenced facility located at 12860 Mayfield Road, Claridon Township, Geauga County. The purpose of the inspection was to evaluate the facility's compliance status with respect to the terms and conditions of the facility's National Pollutant Discharge Elimination System (NPDES) permit in conjunction with the renewal of said permit. The monthly operating reports (MORs) from August 1<sup>st</sup>, 2010 to September 1<sup>st</sup>, 2011 were reviewed for compliance with the current NPDES permit with multiple violations during that time period (attachment).

The following are observations during the inspection:

- The plant consists of a trash trap, flow equalization, two extended aeration tanks, dosing pumps, two slow sand filters and UV disinfection. Both aeration tanks appeared to be provided with air.
- Both of the clarifiers are in need of major cleaning. The discharge weirs were covered in moss and other floating solids and there was a lot of pin floc in the clarifier indicating old sludge that should be removed.
- Both sand filters need cleaned and repaired. The south filter was in use at the time of inspections. Sludge had accumulated on the surface of the bed and the filter was ponding water. The north filter bed was completely covered in thick black sludge and had a strong septic smell. The solids and old sand must be removed from the bed and disposed of at a landfill.
- The UV disinfection channel was installed in the old chlorination contact chamber. According to Dennis Meek, engineer for the facility, a sump pump is installed in the vault to pump waste water that either overflows from the channel or seeps into the vault from back to the system above the sand filters for treatment. At the time of the inspection the pump was discharging water from the

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vault into the field nearby. This is a violation of your NPDES permit and Ohio Revised Code 6111.

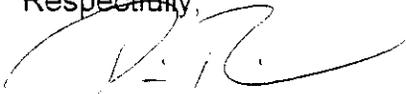
- Log books and the operation and maintenance manual could not be located at the site and were unavailable for inspection.

**Summary:**

**Please inform this office, in writing, within 21 days of the date of this letter as to the actions taken to correct the above mentioned problems and to schedule a follow up inspection. Ohio EPA will process the NPDES permit renewal after re-inspection of the facility.**

Should you have any comments or questions regarding this letter, please contact this office at (330) 963-1299 or by email at [laura.weber@epa.state.oh.us](mailto:laura.weber@epa.state.oh.us).

Respectfully,



David J. Rischar  
Assistant to the District Engineer  
Division of Surface Water

DJR/cl  
Enclosure

cc: Mr. Dennis Meek, DM Engineering, LLC



Figure 1: Discharge weirs in need of cleaning



Figure 2: Surface of the north sand filter covered in thick black sludge.

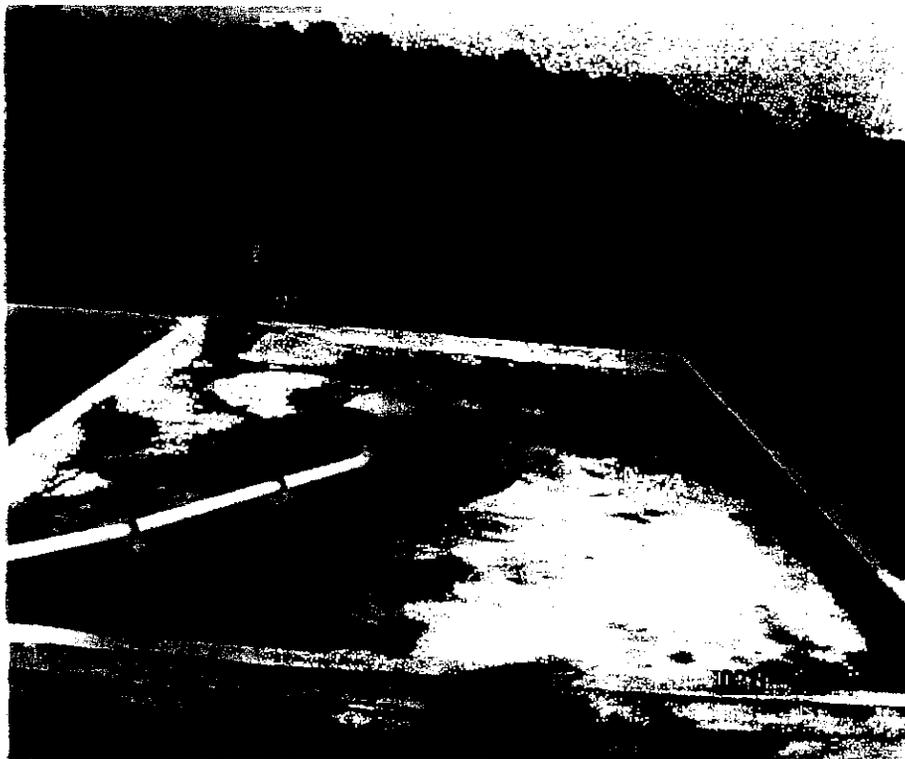


Figure 3: Surface of the south sand filter in need of cleaning and leveling

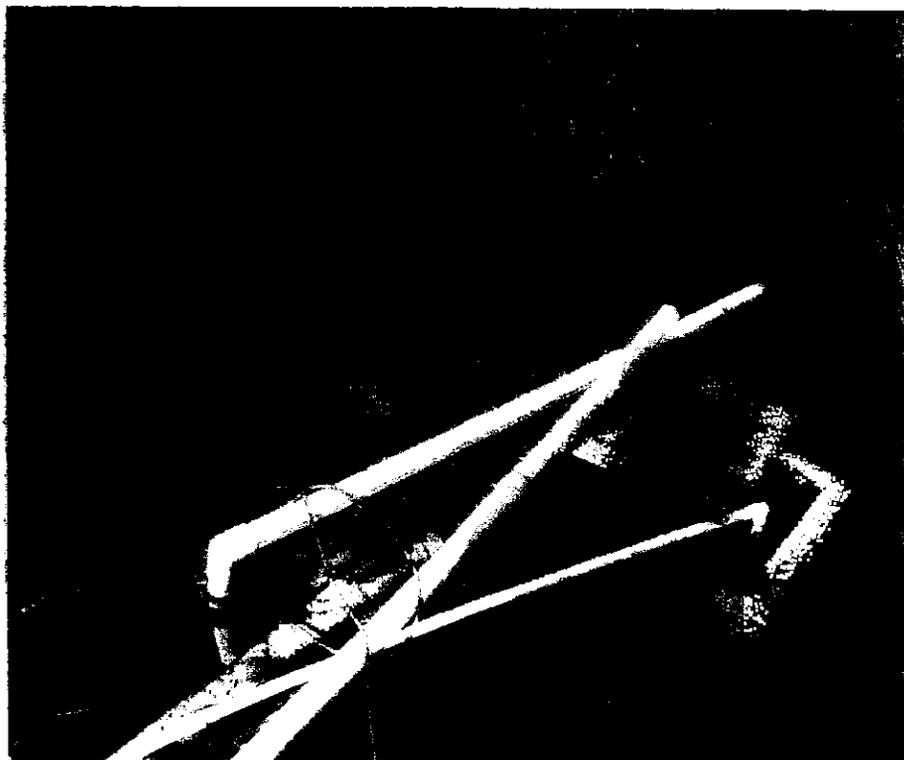


Figure 4: Pipe running from sump pump and discharging to the field.

JACQUES MHP : 3PV00007

Limit Violations

August 1, 2010 to September 1, 2011

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	8.05	8/1/2010
August 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.14	.46366	8/1/2010
August 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	6.3	8/5/2010
August 2010	001	80082	CBOD 5 day	1D Conc	15	15.4	8/5/2010
August 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	3	8/5/2010
August 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	9.8	8/18/2010
August 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	.92733	8/18/2010
August 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	2.3	8/18/2010
August 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	5.2	8/25/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	10.75	9/1/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	7.77667	9/1/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	.93584	9/1/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.14	.63259	9/1/2010
September 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	4.3	9/1/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	5.03	9/15/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	.2475	9/15/2010
September 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	5.5	9/22/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	7.55	9/29/2010
September 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	.71442	9/29/2010
September 2010	001	00300	Dissolved Oxygen	1D Conc	6.0	2.5	9/29/2010
October 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.5	17.625	10/1/2010
October 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.14	1.25615	10/1/2010
October 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	13.75	10/13/2010
October 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	.88474	10/13/2010
October 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	21.5	10/27/2010
October 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	1.62755	10/27/2010
January 2011	001	00530	Total Suspended Solids	1D Conc	18	36	1/18/2011
January 2011	001	00530	Total Suspended Solids	1D Qty	1.7	2.45268	1/18/2011
January 2011	001	00530	Total Suspended Solids	1D Conc	18	21	1/25/2011
January 2011	001	00530	Total Suspended Solids	1D Qty	1.7	2.46404	1/25/2011
March 2011	001	00530	Total Suspended Solids	1D Conc	18	19	3/8/2011
April 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.38	.72805	4/1/2011
April 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	6.0	6.73	4/5/2011
April 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.57	2.05313	4/5/2011
May 2011	001	00530	Total Suspended Solids	30D Qty	1.2	1.49666	5/1/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.14	.17675	5/1/2011
May 2011	001	00530	Total Suspended Solids	1D Qty	1.7	2.59802	5/3/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	2.75	3.54	5/3/2011
May 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.21	.83609	5/3/2011
May 2011	001	00530	Total Suspended Solids	1D Conc	18	24	5/17/2011
May 2011	001	00530	Total Suspended Solids	1D Qty	1.7	3.27024	5/17/2011
July 2011	001	31616	Fecal Coliform	1D Conc	2000	2000	7/13/2011
July 2011	001	31616	Fecal Coliform	1D Conc	2000	2000	7/20/2011