



**Environmental
Protection Agency**

John R. Kasich, Governor

Mary Taylor, Lt. Governor

Scott J. Nally, Director

April 25, 2012

RE: WATERLOO HIGH SCHOOL
PERMIT NO. 3PT00079*CD
PORTAGE COUNTY
ATWATER TOWNSHIP

CERTIFIED MAIL

Mr. Andrew J. Hill, Ed. D.
Superintendent
1464 Industry Road
Atwater, Ohio 44201

Dear Mr. Hill:

On April 12, 2012, an inspection of the above referenced facility's wastewater treatment system was conducted. No one was present during my inspection to represent the facility. The purpose of the inspection was to evaluate the operation and maintenance of the treatment system along with the facility's compliance status with respect to the terms and conditions of the above referenced National Pollutant Discharge Elimination System (NPDES) permit.

During the inspection, the following items were noted:

- 1) Mr. Jason Vancura is the operator of record and is in charge of the technical operations of the wastewater treatment plant.
- 2) Mr. Vancura holds a Class A Wastewater Operators License.
- 3) The plant design of the wastewater treatment system is 20,000 gpd.
- 4) In accordance with Ohio Administrative Code (OAC) 3745-7-04, the sewage treatment facility is classified as a Class A facility. The permittee shall ensure that the treatment works operator of record is physically present at the facility two days per week for a minimum of one hour per week.
- 5) A log book is required to be maintained at the site which documents the time requirement is being met along with the maintenance duties being performed at the treatment plant.
- 6) The blowers were running and the plant was receiving good aeration.
- 7) The equalization basin was also being aerated.
- 8) The contents of the aeration tank were medium brown in color and no foam was present.
- 9) Both sludge return lines were functioning properly and were returning light to medium brown water.
- 10) The skimmer return line was functioning properly and returning clear water.
- 11) The skimmer was adjusted to the proper level.
- 12) The weirs and the sidewalls in the settling tank had scum build-up/ solids deposition. They should be scraped and hosed down.
- 13) The surface of the settling tank was covered with a layer of solids and pin floc was observed flowing over the weir. See Figure 1. This is not typical of a properly operating plant.

- 14) Scum build-up/ solids deposition was present behind the baffle in the settling tank. This material should be removed and properly disposed. See Figure 2.
- 15) The weirs in the up flow fixed media clarifier need to be leveled. Currently the effluent is only flowing over the weir on one end. See Figure 3
- 16) The surface sand filter beds consisted of two cells. One surface sand filter bed appeared to be plugged and had floating solids. See Figure 4. A pump was being used to transfer the effluent to the other sand bed. See Figures 4 & 5. This bed should be immediately taken off-line to allow the bed to drain and the sludge to dry. Once the bed dries, the sludge layer should be raked from the bed. The sludge should be properly disposed at a licensed solid waste landfill. The other sand filter bed was draining properly. Minimal vegetation was present in this bed. The surface sand filter beds should be maintained free of vegetation at all times.
- 17) Once the sludge layer and vegetation is removed in the surface sand filter beds, additional filter media may be required. In general 18 inches of approved filter sand is necessary. Any filter sand that is used must meet the requirements of OAC 3745-42-09. More specifically, for conventional surface sand filters, filter sand shall be washed and free of silt; have an effective size of 0.4 mm to 1.0 mm; and have a uniformity coefficient less than 3.0.
- 18) The surface sand filter bed distribution box was leaking where the white PVC pipe comes out of the box. See Figures 5. The effluent was unable to be properly pumped to the center of the surface sand filter bed in use. The effluent was ponding in the corner of the surface sand filter bed next to the distribution box. The distribution box needs to be repaired/ replaced immediately. This problem was noted in the last correspondence from this office dated April 16, 2010.
- 19) It was observed that illegal dumping of the sludge / filter media is occurring immediately beyond the surface sand filter beds along the stream See Figure 6. The material shall be immediately removed and disposed in a licensed landfill. The last correspondence from this office dated April 16, 2010 stated that this material should be properly disposed at a licensed landfill.
- 20) It should be noted that chlorination/dechlorination begins May 1st and is required through October 31. Both the chlorination and dechlorination dispensing tubes should be appropriately stocked during this time period.
- 21) The final effluent being discharged was clear and appeared to be of satisfactory visual quality.
- 22) A permanent marker at internal station 3PT00079001 was posted per the requirement of Part II, Letter K of the facility's NPDES permit

This office has recently reviewed your self-monitoring reports covering the period April 1, 2010 through March 31, 2012 for the referenced facility. Our review indicates violations of the terms and conditions of your NPDES permit. The specific instances of noncompliance are as follows:

Limit Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	31816	Fecal Coliform	30D Conc	1000	1700.	6/1/2010
001	80082	CBOD 5 day	30D Conc	10	15.	8/1/2010

001	80082	CBOD 5 day	30D Conc	10	12.	9/1/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	6.56	12/1/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.23	.38734	12/1/2010
001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	6.56	12/8/2010
001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.34	.38734	12/8/2010
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	4.67	1/1/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	4.67	1/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.23	.30756	1/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	17.6	2/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.23	.79939	2/1/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	17.6	2/8/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.34	.79939	2/8/2011

Frequency Violations

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	00300	Dissolved Oxygen	1/Week	1	0	12/08/2010

Please be advised that such instances of noncompliance may be cause for enforcement actions pursuant to the Ohio Revised Code, Chapter 6111.

Please notify this office in writing, within 14 days receipt of this letter, of your intentions to address items 12 through 19. This letter should include dates either actual or proposed. A follow-up inspection will be conducted subsequent to the completion date.

Should you have any comments or questions concerning this letter, please feel free to call me at (330) 963-1143.

Respectfully,

Michael W. Stevens

Michael W. Stevens
 Environmental Engineer
 Division of Surface Water

MWS/cs

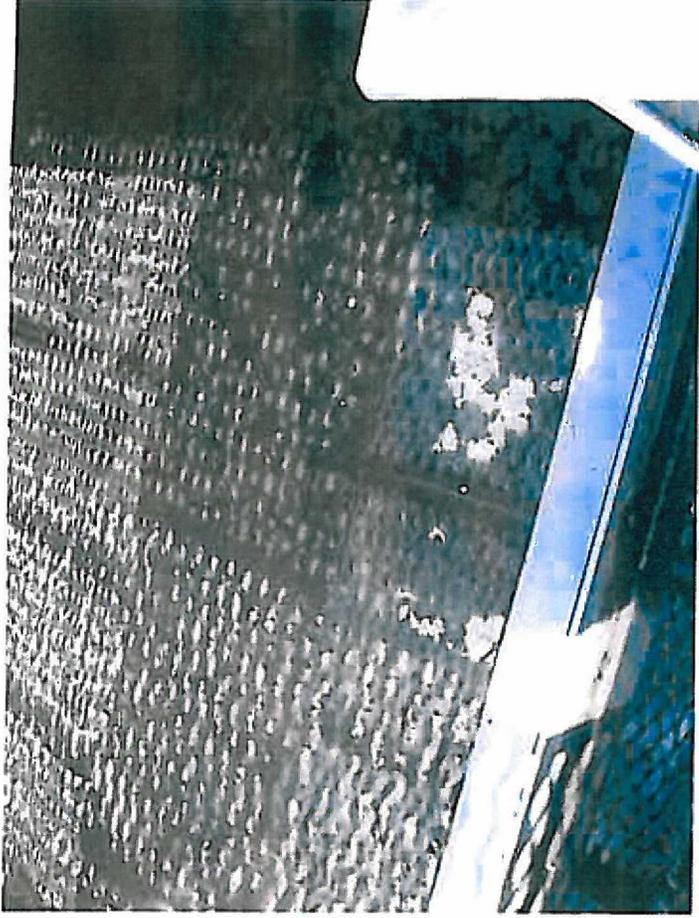


Figure 1



Figure 2

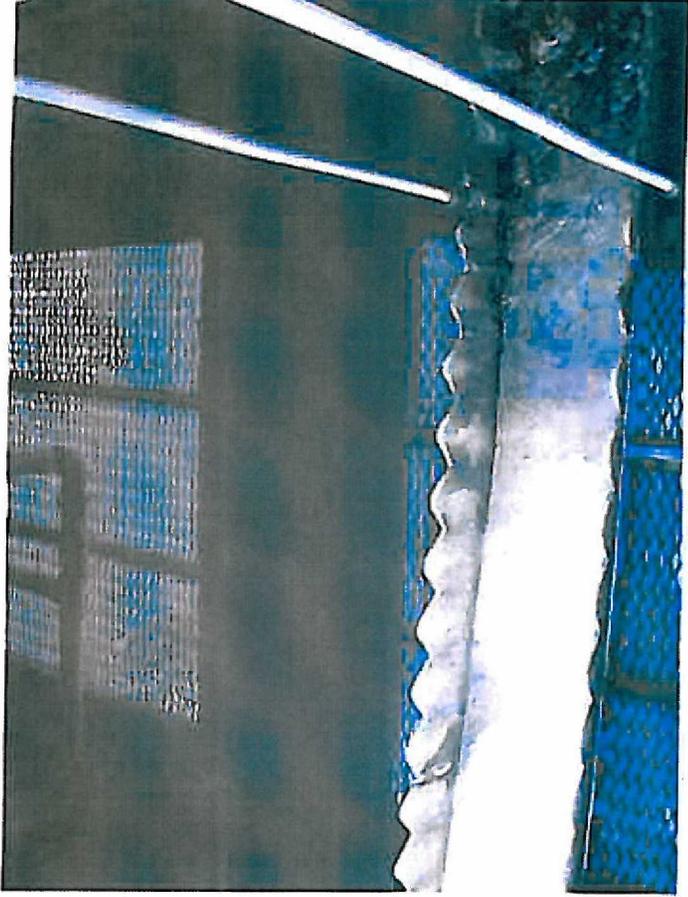


Figure 3



Figure 4



Figure 5

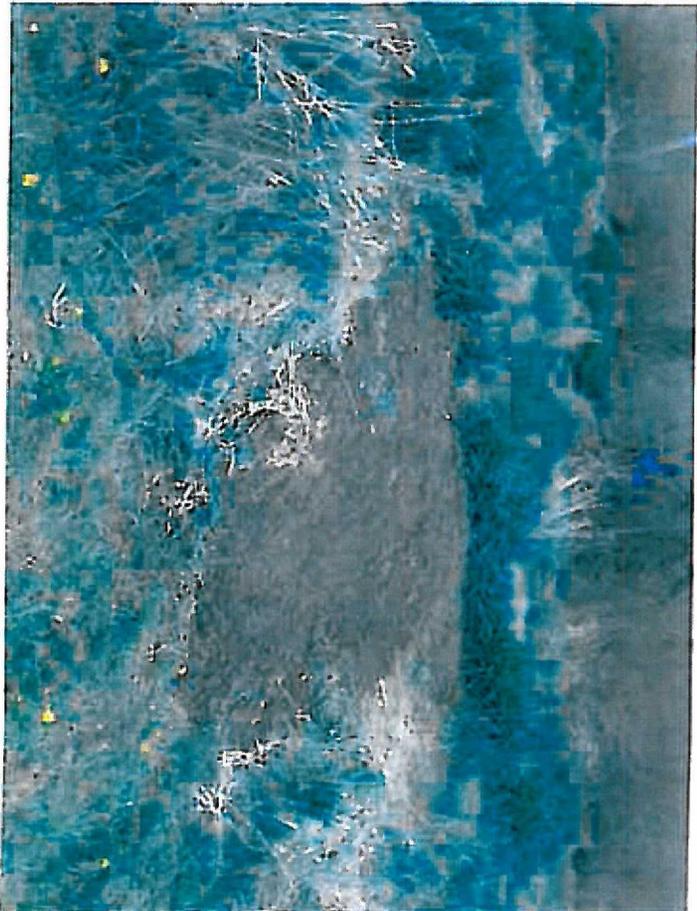


Figure 6

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