



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

July 29, 2008

RE: LAKE COUNTY
MADISON TOWNSHIP
THUNDER HILL GOLF COURSE
7050 GRISWOLD ROAD
NPDES PERMIT NO. 3PR00143
APPLICATION NO. OH0101583
NOTICE OF VIOLATION

Todd Bishop, Manager
Thunder Hill Golf Course
7050 Griswold Road
Madison, OH 44057

Dear Mr. Bishop:

On July 10, 2008, this writer conducted compliance evaluation inspection of the sewage treatment plant serving the Thunder Hill Golf Course. The purpose of the inspection was to evaluate the WWTP's operation and maintenance condition, and to evaluate the facility's compliance with National Pollutant Discharge Elimination System (NPDES) permit effluent limits.

At the time of inspection, operation and maintenance of the plant was poor. The following observations were noted:

- The aeration tank content was gray in color, with little activated sludge apparent. The return sludge line contained little activated sludge and was gray in color.
- The surface settling tank wastewater was covered with algae. The effluent trough contained sludge and vegetation. The algae should be skimmed from the surface. The sludge and vegetation in the trough should be removed.
- The filter beds were in disarray. Both filter beds were full of vegetation and leaves. The vegetation must be removed and each filter bed must contain 18 inches of Ohio EPA approved filter sand. Approved filter sand consists of clean and washed sand with an effective size between 0.4 and 1.0 mm and a uniformity coefficient not greater than 3.0. The filter sand must be raked and evenly distributed across the surface area of the bed. The filter beds must be routinely switched to maximize the performance of the filter beds.
- The chlorine contact chamber was not covered with grating and poses to be a safety hazard. The chlorinator was covered with vegetation and was inaccessible. There is no dechlorinator. The effluent disinfection season is May 1 to October 31. Chlorine tablets must remain in the chlorinator during this time period.
- The sludge holding tank was dismantled and does not appear to hold sludge.

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The referenced deficiencies must be corrected immediately.

A review of the monthly operating reports, covering the period April 2007 through June 2008, revealed the following frequency violations:

| Station | Reporting Code | Parameter | Sample Frequency | Expected | Reported | Violation Date |
|---------|----------------|---------------------|------------------|----------|----------|----------------|
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/30/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/30/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/30/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/29/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/29/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/29/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/28/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/28/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/28/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/26/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/26/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/26/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/25/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/25/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/25/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/24/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/24/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/24/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/23/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/23/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/23/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/22/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/22/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/22/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/21/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/21/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/21/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/19/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/19/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/19/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/18/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/18/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/18/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/17/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/17/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/17/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/16/2007 |

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|-----|-------|---------------------|----------|---|---|------------|
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/16/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/16/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/15/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/15/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/15/2007 |
| | | | 1/2Weeks | | | |
| 001 | 00400 | pH | | 1 | 0 | 09/15/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/14/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/14/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/14/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/12/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/12/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/12/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/11/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/11/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/11/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/10/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/10/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/10/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/09/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/09/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/09/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/08/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/08/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/08/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/07/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/07/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/07/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/05/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/05/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/05/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/04/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/04/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/04/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/03/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/03/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/03/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/02/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/02/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/02/2007 |
| 001 | 00083 | Color, Severity | 1/Day | 1 | 0 | 09/01/2007 |
| 001 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 09/01/2007 |
| 001 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 09/01/2007 |
| | | | 1/2Weeks | | | |
| 001 | 00400 | pH | | 1 | 0 | 09/01/2007 |

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|-----|-------|------------------------|----------|---|---|------------|
| 001 | 00010 | Water Temperature | 1/Week | 1 | 0 | 07/15/2007 |
| 001 | 00300 | Dissolved Oxygen | 1/Week | 1 | 0 | 07/15/2007 |
| 001 | 00010 | Water Temperature | 1/Week | 1 | 0 | 07/08/2007 |
| 001 | 00300 | Dissolved Oxygen | 1/Week | 1 | 0 | 07/08/2007 |
| 001 | 00010 | Water Temperature | 1/Week | 1 | 0 | 07/01/2007 |
| | | | 1/2Weeks | | | |
| 001 | 50060 | Chlorine, Total Residu | | 1 | 0 | 07/01/2007 |
| | | | 1/2Weeks | | | |
| 001 | 00400 | pH | | 1 | 0 | 07/01/2007 |
| 001 | 00300 | Dissolved Oxygen | 1/Week | 1 | 0 | 07/01/2007 |
| 001 | 00010 | Water Temperature | 1/Week | 1 | 0 | 06/22/2007 |
| 001 | 00010 | Water Temperature | 1/Week | 1 | 0 | 06/08/2007 |
| 001 | 00010 | Water Temperature | 1/Week | 1 | 0 | 06/01/2007 |

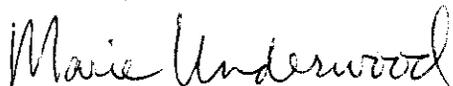
Please be advised that failure to comply with the effluent limitations or to satisfy the monitoring or reporting requirements of your NPDES permit may be cause for enforcement pursuant to the Ohio Revised Code Chapter 6111.

Your NPDES permit expired April 30, 2008. **Please immediately submit to this office the NPDES permit renewal application, Antidegradation Addendum and the required \$200 application fee.** Pursuant to Ohio Administrative Code 3745-33, the application for the renewal of the NPDES permit was due 180 days prior to the permit's expiration date. You are currently in violation of the Ohio Administrative Code.

Within 10 days of the date of this letter, you are required to notify this office, in writing, outlining the corrective action, either actual or proposed, that will be taken to eliminate the above highlighted deficiencies.

Should you have any questions, please contact the undersigned at (330) 963-1183.

Sincerely,



Marie Underwood, P.E.
Environmental Engineer
Division of Surface Water

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