



**Environmental
Protection Agency**

John R. Kasich, Governor

Mary Taylor, Lt. Governor

Scott J. Nally, Director

December 13, 2011

RE: LAKE COUNTY
VILLAGE OF MADISON WWTP
COMPLIANCE EVALUATION INSPECTION
NPDES PERMIT NO. OH0023515
OEPA PERMIT NO. 3PB00030

NOTICE OF VIOLATION

Mayor, Council & Administrator
Village of Madison
126 West Main Street
P.O. Box 7
Madison, Ohio 44057

Ladies/Gentlemen:

On December 8, 2011, this writer conducted a compliance evaluation inspection of the wastewater treatment plant serving the Village of Madison. Mr. Dustin Lewis accompanied this writer during the inspection. The purpose of the inspection was to evaluate the treatment facility's compliance with the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) permit.

Wastewater Treatment Plant Observations

At the time of inspection, the four oxidation ditches were not in operation. According to Mr. Lewis, the flow to the plant has been high due to heavy rainfall earlier during the week. In order to prevent activated sludge solids from entering waters of the state, the oxidation ditches were shut down. The discharge flow on the day of inspection was 750,000 gallons per day (gpd). The average daily design flow of the plant is 500,000 gpd.

In addition, the sludge digester aerator was not in operation. Mr. Lewis notified this office in an e-mail message dated December 7, 2011, that the aerator went offline on December 6, 2011, because it is in need of repair. A new drive shaft is required and it will take up to three weeks to receive the necessary part.

Be advised that discharge of sewage to waters of the state is a violation of Ohio Revised Code (ORC) 6111. Failure to maintain the wastewater treatment plant in good working order is a violation of Part III, Item 3, of the NPDES permit. These violations are subject to enforcement action pursuant to ORC 6111.

NPDES Permit

The Village of Madison received a general variance for mercury. The requirements for maintaining a mercury variance are found in Part II, Items T and V, of the existing NPDES permit. As a condition of the variance, the village must implement a Plan of Study for mercury reduction. The existing NPDES requires the submittal of an annual Pollutant Minimization Plan (PMP) report. This report is due on or prior to March 1st of each year and must provide all requested information as found in Part II, Item T(1)(g) of the permit. To date, this office has not received the required PMP report. Mercury variances are not automatically granted with each NPDES permit renewal. If the village wishes to renew its mercury variance, the steps in Part II, Item V, of the NPDES permit must be followed.

Part II, Item E (2), of the existing NPDES permit requires the submittal of a Sanitary Sewer Overflow (SSO) annual report. This report is due no later than March 31st of each year. To date, this office has not received the required annual SSO report for 2010 that was due March 31, 2011.

Part II, Item A, of the existing NPDES permit requires an Operation and Maintenance log book pursuant to Ohio Administrative Code (OAC) 3745-7-09. As stated in letters from this agency, dated November 14, 2011 from this writer, and November 15, 2011 from Daniel Kopec, the village must record the dates and times of arrival and departure for the operator of record and any other operator required by OAC 3745-7-09 who perform operation and maintenance activities at the wastewater treatment plant. During the inspection, Mr. Lewis stated that he is the only person permitted to record operations and maintenance activities in the log book. Mr. David Cogar, Class I operator, no longer enters records in the log book. Be advised that if any worker performs operation and maintenance work at the plant, that individual must record his activity. If the village wishes to have separate log books for each operator, that is satisfactory; but both books must be maintained and available for viewing.

A review of the Discharge Monitoring Reports (DMRs) covering the period of December 2010 through November 2011 revealed the following effluent limitation violations:

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	80082	CBOD 5 day	30D Qty	24.6	35.8836	3/1/2011
001	80082	CBOD 5 day	7D Qty	36.9	55.8666	3/8/2011
001	80082	CBOD 5 day	7D Qty	36.9	37.6418	3/15/2011
001	80082	CBOD 5 day	7D Qty	36.9	38.1717	5/15/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.7	2.3975	5/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.7	3.72	6/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.7	3.57	7/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	11.0	11.9286	3/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	3.2	7.19266	5/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	3.2	7.51156	6/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	3.2	4.27139	7/1/2011
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	3.2	7.16544	10/1/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.01	5/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	4.2	5/22/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.85	6/1/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	5.88	6/8/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	2.8	6/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.43	6/22/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.71	7/1/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	4.69	7/8/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.64	7/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.08	10/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.6	3.15	10/22/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	16.5	17.8364	3/8/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	8.74467	5/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	13.0307	5/22/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	10.4891	6/1/2011

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001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	9.7703	6/8/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	5.09287	6/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	5.82334	6/22/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	5.33477	7/8/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	15.7910	10/15/2011
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	4.9	11.9439	10/22/2011
001	00665	Phosphorus, Total (P)	30D Conc	0.73	.93	4/1/2011
001	00665	Phosphorus, Total (P)	30D Conc	0.73	.84	10/1/2011
001	00665	Phosphorus, Total (P)	30D Qty	1.4	1.4252	2/1/2011
001	00665	Phosphorus, Total (P)	30D Qty	1.4	3.16452	4/1/2011
001	00665	Phosphorus, Total (P)	30D Qty	1.4	2.7797	5/1/2011
001	00665	Phosphorus, Total (P)	30D Qty	1.4	3.43375	10/1/2011
001	00665	Phosphorus, Total (P)	7D Qty	2.1	3.16452	4/22/2011
001	00665	Phosphorus, Total (P)	7D Qty	2.1	2.7797	5/22/2011
001	00665	Phosphorus, Total (P)	7D Qty	2.1	3.43375	10/22/2011
001	00530	Total Suspended Solids	30D Conc	16	36.5	3/1/2011
001	00530	Total Suspended Solids	30D Conc	16	17.25	4/1/2011
001	00530	Total Suspended Solids	30D Conc	16	26.125	5/1/2011
001	00530	Total Suspended Solids	30D Conc	16	21.7142	6/1/2011
001	00530	Total Suspended Solids	30D Qty	30.3	135.326	3/1/2011
001	00530	Total Suspended Solids	30D Qty	30.3	59.8181	4/1/2011
001	00530	Total Suspended Solids	30D Qty	30.3	78.7223	5/1/2011
001	00530	Total Suspended Solids	30D Qty	30.3	44.1066	6/1/2011
001	00530	Total Suspended Solids	30D Qty	30.3	41.8479	10/1/2011
001	00530	Total Suspended Solids	7D Conc	24	39.5	3/1/2011
001	00530	Total Suspended Solids	7D Conc	24	49.	3/8/2011
001	00530	Total Suspended Solids	7D Conc	24	27.	3/15/2011
001	00530	Total Suspended Solids	7D Conc	24	30.5	3/22/2011
001	00530	Total Suspended Solids	7D Conc	24	25.	4/1/2011
001	00530	Total Suspended Solids	7D Conc	24	32.	5/15/2011
001	00530	Total Suspended Solids	7D Conc	24	48.5	5/22/2011
001	00530	Total Suspended Solids	7D Conc	24	71.	6/8/2011
001	00530	Total Suspended Solids	7D Qty	45.4	145.930	3/1/2011
001	00530	Total Suspended Solids	7D Qty	45.4	204.162	3/8/2011
001	00530	Total Suspended Solids	7D Qty	45.4	101.882	3/15/2011
001	00530	Total Suspended Solids	7D Qty	45.4	89.3297	3/22/2011
001	00530	Total Suspended Solids	7D Qty	45.4	93.9058	4/1/2011
001	00530	Total Suspended Solids	7D Qty	45.4	50.7038	4/15/2011
001	00530	Total Suspended Solids	7D Qty	45.4	67.7628	4/22/2011
001	00530	Total Suspended Solids	7D Qty	45.4	93.8869	5/15/2011
001	00530	Total Suspended Solids	7D Qty	45.4	151.642	5/22/2011
001	00530	Total Suspended Solids	7D Qty	45.4	64.4774	6/1/2011
001	00530	Total Suspended Solids	7D Qty	45.4	117.974	6/8/2011
001	00530	Total Suspended Solids	7D Qty	45.4	107.531	10/15/2011

The A-Substitution Code "AK" (too numerous to count) has been used several times on the electronic Discharge Monitoring Report (eDMR)'s for fecal coliform. If a sample has fecal colonies that are too numerous to count, the sample should be diluted.

Also, the number of occurrences of SSO's must be reported under Station 300 of the DMRs. A review of the DMRs shows that the village has been reporting AL (no discharge). This is not accurate. This office has received Sanitary Sewer Overflow five day Follow Up Notification Forms covering the days 2/28/2011 through 3/1/2011, 4/23/11, 5/14/2011 through 5/17/2011 and 8/25/11. These SSO occurrences must be reported on the DMRs. The number of days per month that the SSO occurs must be reported.

Be advised that failure to comply with the effluent limitations or to satisfy the monitoring, reporting, or compliance scheduling requirements of your NPDES permit may be cause for enforcement pursuant to the ORC Chapter 6111.

Infiltration & Inflow Study

In a letter, dated October 25, 2011, this writer requested a report on the actual collection system repairs made pursuant to the agreed upon Short Term Infiltration Inflow Study proposal and an update on the implementation of a Long Term Infiltration & Inflow Study. To date, this office has not received the requested information.

Actions to be Taken by Permittee

Within 10 days of the date of this letter, you are directed 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 regarding this letter, please contact this writer at (330) 963-1183.

Sincerely,



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

MU/cs