



**Environmental  
Protection Agency**

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korteski, Director



\*1PA0001720090323\*

DARKE

NEW MADISON STP

MILLER, JOSEPH

2009/03/23



State of Ohio Environmental Protection Agency

**Southwest District Office**

401 East Fifth Street  
Dayton, Ohio 45402-2911

TELE: (937) 285-6357 FAX: (937) 285-6249  
www.epa.state.oh.us

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Laura Powell, Acting Director

March 23, 2009

Mayor and Council  
Village of New Madison  
P.O. Box 1  
New Madison, OH 45346

**RE: Compliance Evaluation Investigation (CEI)/Notice of Violation  
Village of New Madison Wastewater Treatment Plant  
1PA00017\*DD/OH0040584, New Madison, Darke County**

Mayor and Council:

On March 18, 2009, I conducted a Compliance Evaluation Investigation at the Village of New Madison wastewater treatment works. This inspection was conducted to determine compliance with the NPDES discharge permit. Rick Snyder, Wastewater Superintendent, represented the Village during this inspection.

Overall the wastewater facility was rated as "Satisfactory". A detailed inspection report is attached.

No response to this inspection is required at this time. If you have any questions, I can be reached at (937) 285-6109.

Sincerely,

~~Joe Miller~~  
Division of Surface Water

Enclosures

CC: Rick Snyder, WWTP Superintendent  
Mayor Dave Brewer, Village of Palestine (first two pages)  
Mayor Dana Heck, Village of Hollansburg (first two pages)  
Mayor Gary Young, Village of Wayne Lakes (first two pages)  
Jeff Marshall, Darke County Commissioners (first two pages)  
Darke County Health Department (first two pages)





**Village of New Madison Wastewater Treatment Plant  
Compliance Evaluation Investigation (CEI)  
March 18, 2009**

**Overview**

The Village of New Madison wastewater treatment plant treatment components include: influent pump station, bar screen, microstrainer, grit removal, scum removal, two activated sludge oxidation ditches, two secondary clarifiers (internal to ditches), ultraviolet disinfection, and post-aeration. Sludge handling includes aerobic sludge digestion, polymer addition, sludge drying beds, and land application. Class B sludge is land applied on the agricultural fields immediately adjacent to the wastewater treatment.

New Madison's WWTP was installed in 2003 to serve a population of 873. The average flow to from the period of January 2006 to February 2009 was 0.071 MGD. The average daily design flow rate is 0.130 MGD. Wet weather flows have been as high as 0.150 MGD. Discharge of wastewater is to the East Fork of the Whitewater River.

**Area Wastewater Concerns**

The nearby villages of Wayne Lakes, Hollansburg, and Palestine are unsewered communities with documented degradation to area waterways. These communities are currently reviewing their alternatives for correcting the unsanitary conditions resulting from inadequate wastewater treatment and discharge. One of the options being considered in these communities is the installation of collection systems that would pump the collected wastewater to New Madison's WWTP for treatment. New Madison will, of course, need to approve and negotiate any agreement to provide treatment with a neighboring village. Available capacity and any need for expansion associated with such an agreement will also need to be considered before accepting additional flows.

**Operator of Record Form, Log Book Requirements, Discharge Signage**

I have enclosed forms and information for these topics as we discussed.

**Effluent Limitation Violations**

We have reviewed your self-monitoring compliance reports from the period from January 2006 to February 2009. During this period, Nitrogen-Ammonia violations were noted in January 2009 (see below). Non-compliance notification was provided as required. The violations were reported to be due to freezing of the oxidation ditch surface during frigid conditions. The WWTP returned to compliance when the ice thawed.

Reporting Period	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2009	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	6.3	1/1/2009
January 2009	00610	Nitrogen, Ammonia (NH3)	30D Qty	1.5	1.57267	1/1/2009
January 2009	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	12.5	1/22/2009
January 2009	00610	Nitrogen, Ammonia (NH3)	7D Qty	2.2	3.12263	1/22/2009

Permit # : Error! Reference source not found.  
 NPDES #: OH0040584



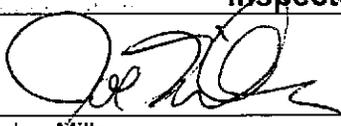
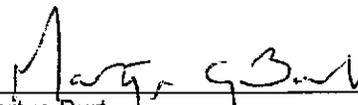
State of Ohio Environmental Protection Agency  
 Southwest District Office

**NPDES Compliance Inspection Report**

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PA00017*DD	OH0040584	03/18/09	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of New Madison WWTP 2115 Rush Road New Madison, Ohio 45346	9:25 AM	October 1, 2006
	Exit Time	Permit Expiration Date
	11:55 AM	September 30, 2011
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Rick Snyder, WWTP Superintendent	937-996-0298	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council Village of New Madison PO Box 1 New Madison, OH 45346	937-996-3011	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal; U = Unsatisfactory, N = Not Evaluated)					
S	Permit	S	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	S	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	S	Sludge Storage/Disposal	N	Other
S	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	
Inspector	Reviewer
 Joe Miller Division of Surface Water Southwest District Office Date 3/23/09	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office Date 3/23/09

Permit # : **Error! Reference source not found.**  
NPDES #: OH0040584

Sections E thru K: Complete on all inspections as appropriate  
Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated

**Section E: Permit Verification**

Inspection observations verify the permit

- (a) Correct name and mailing address of permittee ..... Y
- (b) Correct name and location of receiving waters..... Y
- (c) Product(s) and production rates conform with permit application (Industries)..... N/A
- (d) Flows and loadings conform with NPDES permit..... Y
- (e) Treatment processes are as described in permit application... Y
- (f) New treatment process(es) added since last inspection..... N
- (g) Notification given to State of new, different or increased discharges..... N/A
- (h) All discharges are permitted..... Y
- (i) Number and location of discharge points are as described in permit..... Y

Comments/Status:

**Section F: Compliance**

- (a) Any significant violations since the last inspection..... Y
- (b) Permittee is taking actions to resolve violations..... Y
- (c) Permittee has a compliance schedule..... N
- (d) Compliance schedule contained in
- (e) Permittee is meeting compliance schedule..... N/A

Comments/Status:

Nitrogen – Ammonia effluent limitation exceeded in January 2009 (weekly and monthly) due to freezing of oxidation ditches. Discharge returned to compliance after thaw.

**Section G: Operation & Maintenance**

**Treatment Works:**

Treatment facility properly operated and maintained

- (a) Standby power available.....generator  or dual feed ..... Y
- (b) Adequate alarm system available for power or equipment failures.. Y
- (c) All treatment units in service other than backup units..... Y
- (d) Wastewater Treatment Works classification (OAC 3745-7)..... I
- (e) Operator of Record holds unexpired license of class required by permit..... Y  
 Class: I required, Rick Snyder holds Class II WW certification.
- (f) Copy of certificate of Operator of Record displayed on-site..... Y
- (g) Minimum operator staffing requirements fulfilled (OAC 3745-7)... Y
- (h) Routine and preventative maintenance scheduled/performed... Y
- (i) Any major equipment breakdown since last inspection..... N
- (j) Operation and maintenance manual provided and maintained.... Y
- (k) Any plant bypasses since last inspection..... N
- (l) Regulatory agency notified of bypasses..... N/A  
 On MORs  and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic and/or organic overloads since last inspection..... N

**Record Keeping:**

- (a) Log book provided..... Y
- (b) Format of log book (i.e. computer log, hard bound book)  

Hard bound book
-----------------
- (c) Log book(s) kept onsite (in an area protected from weather)..... Y
- (d) Log book contains the following:
  - I. Identification of treatment works..... N/E
  - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... N/E
  - III. Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs)..... Y
  - IV. Laboratory results (unless documented on bench sheets)... N
  - V. Identification of person making log entries..... Y
- (d) Has the operator of record submitted written notification to the permittee, Ohio EPA and (if applicable) any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred..... Y

**Section H: Collection System**

**Collection System:**

- (a) Percent combined system: 0 %
- (b) Any collection system overflows since last inspection..... N  
(CSO  and/or SSO )
- (c) Regulatory agency notified of overflows (SSOs)..... N/A
- (d) CSO O&M plan provided and implemented..... N/A
- (e) CSOs monitored and reported in accordance with permit..... N/A
- (f) Portable pumps used to relieve system..... Y
- (g) Lift station alarms provided and maintained..... Y
- (h) Are lift stations equipped with permanent standby power  
or equivalent..... Y
- (i) Is there an inflow/infiltration problem (separate sewer system),  
or were there any major repairs to collection system since  
last inspection..... N
- (j) Any complaints received since last inspection of basement flooding N
- (k) Are any portions of the sewer system at or near capacity..... N

**Comments/Status:**

Emergency generator is now provided for main lift station on Rush Road. The lift station was installed in Spring 2006. Emergency pump is used for the other lift station that receives wastewater from the school and 31 homes.

New Madison had one operator leave for another job and another operator is retiring at the end of March 2009. A replacement operator has been hired to assist with WWTP operations.

Local industry Florida Productions has reduced workforce from 131 employees to 28 employees. This industry only generates sanitary wastewater (no industrial). They manufacture dashboards, hubcaps, etc. for the auto industry.

**Section I: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date:                      Approval #:                      Not submitted     N/A
- (b) Sludge management plan current..... Y  
(c) Sludge adequately disposed..... Y  
    (Method:                      )  
(d) If sludge is incinerated, where is ash disposed of  
(e) Is sludge disposal contracted..... Y  
    (Name: Ryan Snyder)  
(f) Has amount of sludge generated changed significantly since  
    last inspection..... N  
(g) Adequate sludge storage provided at plant..... Y  
(h) Land application sites monitored and inspected per SMP..... Y  
(i) Records kept in accordance with State and Federal law..... Y  
(j) Any complaints received in last year regarding sludge..... N  
(k) Is sludge adequately processed (digestion, pathogen control)..... Y

**Comments/Status:**

Sludge is hauled to land application about four times a year. Land application fields are immediately behind the WWTP.

**Section J: Self-Monitoring Program**

**Flow Measurement:**

- (a) Primary flow measuring device operated and maintained..... Y  
Type of device: Ultrasonic & Parshall flume     Ultrasonic & Weir     Weir   
Calculated from influent                       Other  (Specify:                      )
- (b) Calibration frequency adequate ..... Y  
    (Date of last calibration: Feb 09)  
(c) Secondary instruments operated and maintained..... Y  
(d) Flow measurement equipment adequate to handle full range  
    of flows..... Y  
(e) Actual flow discharged is measured..... Y  
(f) Flow measuring equipment inspection frequency  
     Daily  Weekly  monthly  other

**Comments/Status:**

**Section J: Self-Monitoring Program (con't)**

**Sampling:**

- (a) Sampling location(s) are as specified by permit..... Y
- (b) Parameters and sampling frequency agree with permit..... Y
- (c) Permittee uses required sampling method..... Y
- (d) Sample collection procedures are adequate..... Y
  - (i) Samples refrigerated during compositing..... Y
  - (ii) Proper preservation techniques used..... Y
  - (iii) Containers and sample holding times prior to analysis conform with 40 CFR 136.3..... Y
- (e) Monitoring records (i.e., flow, pH, DO) maintained for a minimum of three years including all original strip chart recordings (i.e, continuous monitoring instrumentation, calibration and maintenance records)..... Y
- (f) Adequate records maintained of sampling date, time, location, etc.. Y

**Laboratory:**

*General*

- (a) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (b) If alternate analytical procedures are used, proper approval has been obtained..... N/A
- (c) Analyses being performed more frequently than required by permit. Y
- (d) If (c) is yes, are results in permittee's self-monitoring report..... N
- (e) Commercial laboratory used..... Y

Parameters analyzed by commercial lab: O&G, fecal coli, metals, NH3  
Sludge

Lab name: MASI

*Quality Control/Quality Assurance*

- (f) Quality assurance manual provided and maintained..... Y
- (g) Satisfactory calibration and maintenance of instruments/equipment. Y
- (h) Adequate records maintained..... Y
- (i) Results of latest USEPA quality assurance performance sampling program:  Satisfactory  Marginal  Unsatisfactory

Date:

**Comments/Status:**

New Madison WWTP began using eDMR format for self monitoring reports in Fall 2008. Process control sampling is conducted to determine operational needs. A QA/QC manual has been created since last inspection. Split samples done 1/month.

**Section K: Effluent/Receiving Water Observations**

Outfall Number	Outfall sign in place?	Oil sheen	Grease	Turbidity	Foam	Solids	Color	Other
001	N/E							

**Comments/Status:**

**Section L: Multimedia Observations**

- (a) Are there indications of sloppy housekeeping or poor maintenance in work and storage areas or laboratories..... N
- (b) Do you notice staining or discoloration of soils, pavement or floors.. N
- (c) Do you notice distressed (unhealthy, discolored, dead) vegetation.. N
- (d) Do you see unidentified dark smoke or dust clouds coming from sources other than smokestacks..... N
- (e) Do you notice any unusual odors or strong chemical smells..... N
- (f) Do you see any open or unmarked drums, unsecured liquids, or damaged containment facilities..... N

If any of the above are observed, ask the following questions:

- (1) What is the cause of the condition?
- (2) Is the observed condition or source a waste product?
- (3) Where is the suspected contaminant normally disposed?
- (4) Is this disposal permitted?
- (5) How long has the condition existed and when did it begin?

**Comments/Status:**



Ohio Environmental Protection Agency  
 Division of Drinking and Ground Waters  
 Operator Certification Unit

## Operator of Record (ORC) Notification Form

Ohio Environmental Protection Agency  
 Division of Drinking and Ground Waters  
 Operator Certification Unit  
 50 West Town St, Suite 700  
 P.O. Box 1049  
 Columbus, OH 43216-1049

Phone: (614) 644-2752  
 1- 866 - 411-OPCT (6728)  
 Fax: (614) 644-2909  
 email: opcert@epa.state.oh.us  
 website: www.epa.state.oh.us/ddagw/opcert.html

### I. SYSTEM INFORMATION

Name of System: \_\_\_\_\_ Phone Number: \_\_\_\_\_

PWS ID/NPDES Permit #: \_\_\_\_\_ STU # \_\_\_\_\_ Classification: \_\_\_\_\_

Name of Facility Owner or Permittee, Title (Print) \_\_\_\_\_ Facility Owner or Permittee (Signature) \_\_\_\_\_

### II. SYSTEM TYPE (Check only one of the following. Use additional sheets if necessary.)

Public Water System (PWS)	Distribution System	Treatment Works	Collection System

### III. OPERATOR OF RECORD INFORMATION

Add Additional(A), New (N) or Remove(R)	Name of Operator of Record	Certification Number & Expiration Date	I verify that I am the onsite certified operator responsible for the technical operation of the above referenced facility. (Signature of certified operator)*

\* A signature by an operator of record who is being removed is not required.  
 (Attach additional sheets if necessary.)

Amount of time an ORC spends onsite at the Facility: \_\_\_\_\_

For Internal Use Only	
Reviewed by:	Date of SDWIS update:
Date of Compliance Status Letter:	

**Recordkeeping requirements and responsibilities of a certified operator.**

- (A) The owner and operator of record of a public water system, treatment works or sewerage system shall maintain or cause to be maintained operation and maintenance records for each public water system, water treatment plant within a public water system, treatment works, or wastewater treatment facility within a treatment works. Some of the formats in which the records may be maintained include, but are not limited to, hard bound books with consecutive page numbering, time cards, separate operation and maintenance records, or well organized computer logs.
- (1) The records shall be housed and maintained in such a manner as to be protected from weather damage and guarantee the authenticity and accuracy of the records contained within.
  - (2) The records shall be accessible onsite for twenty-four hour inspection by agency or emergency response personnel.
  - (3) At a minimum, the following information shall be recorded:
    - (a) Identification of the public water system, sewerage system, or treatment works;
    - (b) Date and times of arrival and departure for the operator of record and any other operator required by this chapter;
    - (c) Specific operation and maintenance activities that affect or have the potential to affect the quality or quantity of sewage or water conveyed, effluent or water produced;
    - (d) Results of tests performed and samples taken, unless documented on a laboratory sheet;
    - (e) Performance of preventative maintenance and repairs or requests for repair of the equipment that affect or have the potential to affect the quality or quantity of sewage or water conveyed, effluent or water produced; and
    - (f) Identification of the persons making entries.
  - (4) The records shall be kept up to date, contain a minimum of the previous three months of data at all times, and be maintained for at least three years.

(B) A certified operator shall:

- (1) Perform their duties in a responsible and professional manner consistent with standard operating procedures and best management practices;
- (2) Operate and maintain public water systems, sewerage systems, treatment works, and appurtenances so as not to endanger the health or safety of persons working in or around the facility, the public at large, or the environment due to negligence or incompetence; and
- (3) Report all instances of noncompliance with applicable regulations to the operator of record or facility supervisor.

(C) The duties of an operator of record shall include, but not be limited to, those outlined in paragraphs (B)(1) to (B)(3) of this rule and the following additional duties and responsibilities:

- (1) Responsible and effective on site management and supervision of the technical operation of the public water system, treatment works, or sewerage system;
- (2) Immediately notifying the permittee or owner of a public water system, sewerage system, or treatment works, and ensuring the agency and, if applicable, the local regulatory agency, is notified of items that require notification in accordance with sections 6109. or 6111. of the Revised Code, the rules adopted thereunder, or the facility's NPDES permit; and

(D) In the event that there are issues related to paragraphs (A) to (C) of this rule that are within the area of responsibility of, but beyond an operator of record or a certified operator's ability to address, it shall be the operator's responsibility to document any efforts to rectify the problem.

Effective: 12/21/2006

R.C. 119.032 review dates: 12/21/2011

Promulgated Under: 119.03

Statutory Authority: RC Sections 6111.46, 6109.04

Rule Amplifies: RC Sections 6111.46, 6109.04

- (9) That the permittee shall provide adequately trained and qualified personnel as required by Chapter 3745-7 of the Administrative Code to operate such wastewater treatment facilities; and
- (10) That the permit may be modified, suspended, or revoked in whole or in part during its term for cause including but not limited to:
  - (a) Violation of any terms or conditions of the permit;
  - (b) Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts; and
  - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge; and
- (11) That if a toxic effluent standard or prohibition (including a schedule of compliance) is established under section 307(a) of the act for a toxic pollutant that is present in the permittee's discharge and such standards or prohibition (including a schedule of compliance) is more stringent than any limitation upon such pollutant in the NPDES permit, the director shall modify the permit in accordance with the toxic effluent standard and so notify the permittee; and
- (12) That all permittees meeting the requirements of this paragraph post and maintain permanent signs as follows:
  - (a) A sign shall be posted at each outfall under permit. Outfalls covered by this provision include, but are not limited to, discharges of process wastewater, non-contact cooling water, sewage or discharges from remediation sites, and bypass or combined sewer overflow discharges. The director may waive this requirement for outfalls discharging to municipal storm sewers if the outfall is not in close proximity to a lake, reservoir, pond, river, stream, creek or other surface water of the state. Signs are not required at in-plant sampling outfalls, or at outfalls that are not accessible to the public by land or by recreational use of the water body;
  - (b) The sign shall include, at a minimum, the name of the permittee, the permit number, and the outfall number identified in the permit. The information shall be printed in letters not less than two inches high;
  - (c) The sign shall be a minimum of two feet by two feet and the bottom of the sign shall be a minimum of three feet above the ground; and
  - (d) The director may approve variations from these dimensions to increase the legibility or information of the sign.