



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Rd.
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

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

Re: Putnam County
Pandora WWTP
NPDES Permit

April 8, 2009

Mr. Marvin Steiner
Utilities Superintendent
Village of Pandora
P.O. Box 193
Pandora, Ohio 45877

Dear Mr. Steiner:

On April 1, 2009, a pre-permit compliance evaluation inspection of the Pandora Wastewater Treatment Plant (WWTP) was conducted. You were present and provided information concerning the operation and maintenance of the plant.

The facility's average design flow is 335,000 gallons per day. All major plant components were in operation at the time of the inspection. Flow is measured at the lift station using an ultrasonic flow meter. The meter is calibrated annually and was last calibrated in June 2008. A bio-augmentation program is being used to reduce the amount of sludge and to reduce algae buildup on the rock filter. It was observed that there was some algae built up on the rock filters but you stated the amount has been greatly reduced since the addition of the bio-augmentation bacteria. The rock filter bypass outfall to be used during construction of the controlled discharge was observed. It was noted that there was no discharge from this outfall. The final effluent observed was a light green color with light foam and had an organic odor.

The village is on schedule to complete the separation of the sewer system by the end of 2010. During the inspection you stated that the combined sewer overflows (CSO's) have not been adequately monitored. It is important that the two remaining overflows are properly monitored and reported. The nine minimum controls outlined in your NPDES permit should be followed until all of the village's sewers have been separated and there are no longer any CSO's.

A review of the facility's Discharge Monitoring Reports (DMR) for January 2008 through March 2009 showed that there have been numerous permit limit violations. The specific instances of noncompliance are attached on a separate sheet. The effluent limits exceeding the finding and orders interim table have been highlighted.

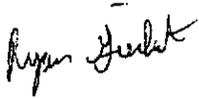
As discussed during the inspection, based on the facility's design flow of 335,000 gallons per day and the effluent limits in your NPDES permit the facility will be a Class II facility. Classification requirements can be found at (OAC) 3745-7-04 (B)(2).

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The facility will have up to 12 months to meet the requirements of this new classification. If the design flow is changed when the facility is altered to a controlled discharge lagoon the facility can submit justification to be reclassified.

The completed compliance evaluation inspection report is enclosed. If there any questions please contact me at (419) 373-3053.

Sincerely,



Ryan Gierhart
Division of Surface Water

/lb

Enclosure

~~Per w/enclosure: DSW: NWDO; File: 2008-04-08~~

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..... | Y |
| (h) All discharges are permitted..... | Y |
| (i) Number and location of discharge points are as described in permit..... | Y |

Comments/Status:

Section F: Compliance Schedules/Violations

- | | |
|---|-----|
| (a) Any significant violations since the last inspection..... | N |
| (b) Permittee is taking actions to resolve violations..... | N/A |
| (c) Permittee has a compliance schedule..... | N |
| (d) Compliance schedule contained in <input style="width: 300px;" type="text"/> | |
| (e) Permittee is meeting compliance schedule..... | N/A |

Comments/Status:

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

- (a) Standby power available.....generator or dual feed N/A
- (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
- (f) Copy of certificate of Operator of Record displayed on-site..... N
- (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..... N
- (b) Format of log book (i.e. computer log, hard bound book)
- (c) Log book(s) kept onsite (in an area protected from weather)..... N
- (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)..... N/E
 - IV. Laboratory results (unless documented on bench sheets)... N/E
 - V. Identification of person making log entries..... N/E
- (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 G: Operation & Maintenance (con't)

Collection System:

- (a) Percent combined system: 20%
- (b) Any collection system overflows since last inspection..... Y
(CSO and/or SSO)
- (c) Regulatory agency notified of overflows (SSOs)..... N/A
- (d) CSO O&M plan provided and implemented..... Y
- (e) CSOs monitored and reported in accordance with permit..... N
- (f) Portable pumps used to relieve system..... N
- (g) Lift station alarms provided and maintained..... N
- (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..... Y
- (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:

Main Lift station only has high water alarm for pump station building flooding.
The lift station at the new school does have a visual alarm.
It was noted that the CSO's are not being monitored adequately. Ensure that the 9
minimum controls as noted in your NPDES permit are followed.
The village is on schedule to complete total separation by the end of 2010.
No log book is kept onsite on this time but the operator is working on developing a log
book and looking into a method to store it onsite.

Section H: Sludge Management

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

Comments/Status:

Bio-augmentation program being used by adding bacteria to reduce sludge and to help reduce algae growth on the rock filter.

Section I: 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: June 2008)
- (c) Secondary instruments operated and maintained..... N
- (d) Flow measurement equipment adequate to handle full range
of flows..... Y
- (e) Actual flow discharged is measured..... N
- (f) Flow measuring equipment inspection frequency
 Daily Weekly monthly other

Comments/Status:

Flow rate is measured at Lift station.

Section I: 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..... N/A
 - (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. N
 - (d) If (c) is yes, are results in permittee's self-monitoring report..... N/A
 - (e) Commercial laboratory used..... Y
- Parameters analyzed by commercial lab: CBOD, TSS, PH, Fecals

Lab name: Masi Environmental

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:

Section J: Effluent/Receiving Water Observations

| Outfall Number | Oil sheen | Grease | Turbidity | Visible Foam | Visible Floating Solids | Color | Other |
|----------------|-----------|--------|-----------|--------------|-------------------------|-------------|-------|
| 001 | no | no | no | Light | no | Light Green | |

Comments/Status:

Effluent was a light green color with light foam and an organic odor smell.

Section K: 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:

Get New Data

| Permit No. | Reporting Period | Station | Reporting Code | Parameter | Limit Type | Limit | Reported Value | Violation Date |
|-------------|------------------|---------|----------------|-------------------------|------------|-------|----------------|----------------|
| 2PB00029*GD | January 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 10.25 | 1/1/2008 |
| 2PB00029*GD | January 2008 | 001 | 80082 | CBOD 5 day | 30D Qty | 13 | 13.6354 | 1/1/2008 |
| 2PB00029*GD | January 2008 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 19.3413 | 1/15/2008 |
| 2PB00029*GD | February 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 11.375 | 2/1/2008 |
| 2PB00029*GD | February 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 18. | 2/8/2008 |
| 2PB00029*GD | March 2008 | 001 | 00530 | Total Suspended Solids | 30D Conc | 30 | 31.25 | 3/1/2008 |
| 2PB00029*GD | March 2008 | 001 | 00530 | Total Suspended Solids | 30D Qty | 38 | 49.4415 | 3/1/2008 |
| 2PB00029*GD | March 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 13. | 3/1/2008 |
| 2PB00029*GD | March 2008 | 001 | 80082 | CBOD 5 day | 30D Qty | 13 | 20.3443 | 3/1/2008 |
| 2PB00029*GD | March 2008 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 20.9310 | 3/8/2008 |
| 2PB00029*GD | March 2008 | 001 | 00530 | Total Suspended Solids | 7D Qty | 58 | 79.4471 | 3/15/2008 |
| 2PB00029*GD | March 2008 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 25.8704 | 3/15/2008 |
| 2PB00029*GD | March 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 15.5 | 3/22/2008 |
| 2PB00029*GD | April 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 13.4285 | 4/1/2008 |
| 2PB00029*GD | April 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 19.5 | 4/22/2008 |
| 2PB00029*GD | May 2008 | 001 | 00530 | Total Suspended Solids | 30D Conc | 30 | 35.75 | 5/1/2008 |
| 2PB00029*GD | May 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 2 | 2.725 | 5/1/2008 |
| 2PB00029*GD | May 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 3 | 3.95 | 5/1/2008 |
| 2PB00029*GD | May 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 14.375 | 5/1/2008 |
| 2PB00029*GD | May 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 20. | 5/15/2008 |
| 2PB00029*GD | May 2008 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 19.3792 | 5/15/2008 |
| 2PB00029*GD | May 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 16.5 | 5/22/2008 |
| 2PB00029*GD | June 2008 | 001 | 00530 | Total Suspended Solids | 30D Conc | 30 | 39.5 | 6/1/2008 |
| 2PB00029*GD | June 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 2 | 2.7 | 6/1/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 20.875 | 6/1/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 21. | 6/1/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 30D Qty | 13 | 17.5150 | 6/1/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 21.5745 | 6/1/2008 |
| 2PB00029*GD | June 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 45.5 | 6/8/2008 |
| 2PB00029*GD | June 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 3 | 4.8 | 6/8/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 22. | 6/8/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 18. | 6/15/2008 |
| 2PB00029*GD | June 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 46. | 6/22/2008 |

| | | | | | | | | |
|-------------|---------------|-----|-------|-------------------------|----------|------|---------|------------|
| 2PB00029*GD | June 2008 | 001 | 31616 | Fecal Coliform | 7D Conc | 2000 | 2142.42 | 6/22/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 22.5 | 6/22/2008 |
| 2PB00029*GD | June 2008 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 23.4102 | 6/22/2008 |
| 2PB00029*GD | July 2008 | 001 | 00530 | Total Suspended Solids | 30D Conc | 30 | 59.25 | 7/1/2008 |
| 2PB00029*GD | July 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 47. | 7/1/2008 |
| 2PB00029*GD | July 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 2 | 2.725 | 7/1/2008 |
| 2PB00029*GD | July 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 20.125 | 7/1/2008 |
| 2PB00029*GD | July 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 53 | 7/8/2008 |
| 2PB00029*GD | July 2008 | 001 | 31616 | Fecal Coliform | 7D Conc | 2000 | 3088.43 | 7/8/2008 |
| 2PB00029*GD | July 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 17.5 | 7/8/2008 |
| 2PB00029*GD | July 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 78 | 7/15/2008 |
| 2PB00029*GD | July 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 29 | 7/15/2008 |
| 2PB00029*GD | July 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 59 | 7/22/2008 |
| 2PB00029*GD | July 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 20 | 7/22/2008 |
| 2PB00029*GD | October 2008 | 001 | 00530 | Total Suspended Solids | 30D Conc | 30 | 78 | 10/1/2008 |
| 2PB00029*GD | October 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 2 | 6.93 | 10/1/2008 |
| 2PB00029*GD | October 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Qty | 2.6 | 3.3308 | 10/1/2008 |
| 2PB00029*GD | October 2008 | 001 | 31616 | Fecal Coliform | 30D Conc | 1000 | 3524.01 | 10/1/2008 |
| 2PB00029*GD | October 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 30.75 | 10/1/2008 |
| 2PB00029*GD | October 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 100 | 10/15/2008 |
| 2PB00029*GD | October 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 3 | 11.4 | 10/15/2008 |
| 2PB00029*GD | October 2008 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Qty | 3.8 | 5.9046 | 10/15/2008 |
| 2PB00029*GD | October 2008 | 001 | 31616 | Fecal Coliform | 7D Conc | 2000 | 5531.72 | 10/15/2008 |
| 2PB00029*GD | October 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 30 | 10/15/2008 |
| 2PB00029*GD | October 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 56 | 10/22/2008 |
| 2PB00029*GD | October 2008 | 001 | 31616 | Fecal Coliform | 7D Conc | 2000 | 2244.99 | 10/22/2008 |
| 2PB00029*GD | October 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 31.5 | 10/22/2008 |
| 2PB00029*GD | November 2008 | 001 | 00530 | Total Suspended Solids | 7D Conc | 45 | 47. | 11/1/2008 |
| 2PB00029*GD | November 2008 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 11.5 | 11/1/2008 |
| 2PB00029*GD | November 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 15.5 | 11/1/2008 |
| 2PB00029*GD | November 2008 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 15.5 | 11/8/2008 |
| 2PB00029*GD | February 2009 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 13.25 | 2/1/2009 |
| 2PB00029*GD | February 2009 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 16. | 2/1/2009 |
| 2PB00029*GD | February 2009 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 16.5 | 2/8/2009 |
| 2PB00029*GD | February 2009 | 001 | 80082 | CBOD 5 day | 7D Qty | 19 | 29.2580 | 2/8/2009 |