



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

October 3, 2013

Village of Blanchester
Attn: Ram Reddy
Director of Utilities
318 East Main Street, Suite 102
Blanchester, Ohio 45107

RE: Village of Blanchester WWTP Compliance Evaluation Inspection, NPDES Permit No. OH0021733/ OEPA Permit No. 1PB00003*GD and Notice of Violation

Mr. Reddy:

On September 23, 2013, I conducted an NPDES Compliance Evaluation Inspection at the village of Blanchester Wastewater Treatment Plant. Ken Wilson, Operator of Record, was present for the facility. The purpose of the inspection was to evaluate compliance with the terms and condition of the facility's NPDES permit.

The Flow Measurement section of the evaluation received a "Marginal" rating as the last date of calibration was not available for the effluent flow meter. The Effluent/Receiving Waters received a "Marginal" rating due to periodic effluent violations. All other areas evaluated received a "Satisfactory" rating. Please pay attention to the "Items Requiring Correction" (shown in bold type) within the report.

A copy of the inspection report is enclosed.

If you have any questions, please contact me by phone at (937) 285-6028 or by email at michelle.waller@epa.ohio.gov.

Respectfully,

A handwritten signature in cursive script that reads 'Michelle Waller'.

Michelle Waller
Environmental Specialist II
Division of Surface Water

MW/tb

Enclosures

ec: Ken Wilson, w/enclosures



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
1PB00003*GD	OH0021733	9/23/2013	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Blanchester WWTW 600 West Main Street Blanchester, Clinton County	9:50am	8/1/2011
	Exit Time	Permit Expiration Date
	12:10pm	7/31/2016
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Ken Wilson, Operator of Record	((937) 783-5135	
Name, Address and Title of Responsible Official	Phone Number	
Ram Reddy, Director of Utilities P.O. Box 158 Blanchester, OH 45107	(937) 783-1531	

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

Section D: Summary of Findings (Attach additional sheets if necessary)	
Please see attached report.	
Inspector	Reviewer
 Michelle Waller Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
10/4/13 Date	10/4/13 Date

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) Flows and loadings conform with NPDES permit..... Y
- (c) Treatment processes are as described in permit application... Y
- (d) All discharges are permitted..... Y
- (e) Number and location of discharge points are as described
in permit..... Y
- (f) Storm water discharges properly permitted..... Y

Comments/Status:

Section F: Compliance

- (a) Any significant violations since the last inspection..... Y
- (b) Appropriate Non-compliance notification of violations..... Y
- (c) Permittee is taking actions to resolve violations..... Y
- (d) Permittee has a compliance schedule..... Y
- (e) Compliance schedule contained in...Administrative Orders
- (f) Permittee is in compliance with schedule..... Y
- (g) Has biomonitoring shown toxicity in discharge since last inspection N/A

Comments/Status:

A review of violations from March 2013 to September 2013 was performed. 3 violations were reported. See attached report.

Section G: Operation & Maintenance

Treatment Works:

Treatment facility properly operated and maintained

- (a) Standby power available.....generator or dual feed Y
 - i. What does the back-up power source operate.....

The current generator powers the EQ pumps.
 - ii. How often is the generator tested under load.....

One time/month.

(b) Which components have an alarm system available for power or equipment failures.....

Influent and secondary pumps. The new plant will have SCADA and everything will be alarmed.

(c) All treatment units in service other than backup units..... Y

(d) What method is used for scheduling routine & preventative maintenance (calendar, software, etc.).....

Manufacturers' recommendations are followed. Daily and monthly checks are performed.

(e) Any major equipment breakdown since last inspection..... N

(f) Operation and maintenance manual provided and maintained..... Y

(g) Any plant bypasses since last inspection..... N

(h) Any plant upsets since last inspection..... N

Comments/Status:

The Operation and Maintenance manual has been updated for the EQ basin and chemical feed in 2012. New Operations and Maintenance plans for the upgraded plant will be written when the plant construction is complete.

The only type of bypassing available in the system is the overflow from the top of the EQ basin. Overflows occur infrequently.

Section G: Operation & Maintenance con't

Record Keeping/Operator of Record:

(a) Wastewater Treatment Works classification (OAC 3745-7)..... II

(b) Operator of Record holds unexpired license of class required by Permit..... Y

(c) Copy of certificate of Operator of Record displayed on-site..... Y

(d) Has the Operator of Record submitted an ORC Notification form.. Y

(e) Minimum operator staffing requirements fulfilled (OAC 3745-7).... Y

(f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met..... N/A

(g) Operator of Record log book provided..... Y

(h) Format of log book (e.g. computer log, hard bound book)

Hard bound book. No consecutive page numbering. Frank Renear, Operator Class I, signs the book most frequently. Timecards are available to check hours worked.

(i) Log book kept onsite (in an area protected from weather)..... Y

(j) Log book contains the following:

I. Identification of treatment works..... Y

II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... N

iii. Daily record of operator and maintenance activities

- (including preventative maintenance, repairs and request for repairs, process control test results, etc.)..... Y
- iv. Laboratory results (unless documented on bench sheets)... N
- v. Identification of person making entries..... Y
- (k) Has the Operator of Record submitted written notifications 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

I&I – town has been smoke tested (CM did a flow study before the Phase II construction).
Smoke testing showed several areas that need to be fixed.

Comments/Status:

Section G: Operation & Maintenance con't

Collection System:

- (a) Are there pump stations in the collection system..... Y
 - i. How many publicly-owned pump stations equipped with permanent standby power or equivalent..... 0
 - ii. How many pump stations have telemetered alarms..... 0
 - iii. How many pump stations have operable alarms..... 2
 - (b) Any chronic collection system overflows since last inspection..... N
 - (c) Regulatory agency notified of all overflows..... Y
 - (d) Are there CSOs in the collection system..... N
if so, what is the LTCP status.....
-
- (e) How are CSOs monitored (chalk, block, level sensor, etc.).....
 - (f) Portable pumps available for collection system maintenance..... Y
 - (g) RDII Program established and active..... Y
 - (h) Any WIB complaint received since last inspection..... N
 - (i) Is there a WIB response plan..... Y
 - (j) Is any portion of the collection system at or near dry weather capacity..... N

Section I: Self-Monitoring Program

Flow Measurement:

- (a) Primary/Secondary flow measuring devices (e.g. weir with ultrasonic level sensor):

Ultrasonic with a parshall flume.

- (b) Flow meter calibrated annually Y
(Date of last calibration: Unable to read last calibration date)
- (c) 24-hour recording instruments operated and maintained..... Y
- (d) Flow measurement equipment adequate to handle full range of flows..... Y
- (e) All discharged flow is measured..... Y

Comments/Status:

[Empty text box for comments/status]

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
(see GLC page)
- (d) 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

Comments/Status:

[Empty text box for comments/status]

Section I: Self-Monitoring Program (con't)

Laboratory:

General

- (a) Does the Quality Assurance Manual contain written Standard Operating Procedures (SOP's) for all analysis performed onsite..... Y
- (b) Do SOP's include the following if applicable..... Y
 - Title
 - Scope and Application
 - Summary
 - Procedure
 - Calculations
 - Quality Control

- Sample Handling and Preservation
- Interferences
- Apparatus and Materials
- Reagents
- Maintenance
- Corrective Action
- Reference (Parent Method)

Note: Standard Methods 1020A establishes that "Quality assurance (QA) is the definitive program for laboratory operation that specifies the measure required to produce defensible data of known precision and accuracy. Standard operating procedures are to be used in the laboratory in sufficient detail that a competent analyst unfamiliar with the method can conduct a reliable review and/or obtain acceptable results." SOPs should be developed for each analytical procedure.

- (c) EPA approved analytical testing procedures used (40 CFR 136.3).. Y
- (d) If alternate analytical procedures are used, proper approval has been obtained..... Y
- (e) Analyses being performed more frequently than required by permit. N
- (f) If (e) is yes, are results in permittee's self-monitoring report.....N/A
- (g) Satisfactory calibration and maintenance of instruments/equipment. N/E
(see score from GLC page)
- (h) Commercial laboratory used..... Y
Parameters analyzed by commercial lab: Every parameter except pH, DO, temperature and chlorine residual.

Lab name: Stan Bolka (City of Wilmington)
Lab name: MASI – analyzes low level mercury and hexavalent chrome

Discharge Monitoring Report Quality Assurance (DMRQA)

- (a) Participation in latest USEPA quality assurance performance sampling..... N
Date:
- (b) Were any parameters "Unsatisfactory"..... N/A
- (c) Reasons for "Unsatisfactory" parameters.....

Comments/Status:

Section J: Effluent/Receiving Water Observations

Outfall # 001
Outfall Description: Pipe from treatment plant.

Receiving Stream: Second Creek
Receiving Stream Description: No oil, grease or foam was visible. Effluent appeared clear.

Comments/Status:

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:

Inspection Findings

The Village of Blanchester's WWTP is currently undergoing an upgrade in response to improvements required in the Director's Findings and Orders issued April 9, 2011. Construction is scheduled to be completed by February 2, 2014. Below are the findings from the inspection.

1. The new influent station and primary clarifier are currently being worked on. The old primary had some debris in the weirs. The operator stated the weirs are cleaned approximately one time per week.
2. The new digester and clarifier are close to being done. The clarifier needs the bottom grouted, and both need to be water tested.
3. New baffles will be put in the existing clarifiers to help with solids when the new clarifier is done. During the inspection solids were noticed in the weirs of the existing clarifiers.
4. Blanchester had had historic problems meeting copper limitations. Blanchester is using chemical addition for copper, and the feed currently goes in to the clarifiers via hoses. A secondary pump station is being installed as part of construction and all of the chemical feed will go through this pump station when complete. Currently the water treatment plant operator Fred Freeman is overseeing the chemical feed at the WWTP. The chemical addition for copper feed will be tied into SCADA once the upgrades are complete. Blanchester is no longer using copper sulfate at the water treatment plant.
5. A new generator will be installed which will power the entire plant.
6. Two new blowers will be added to the digesters for a total of four blowers.

Items for Correction

1. Currently all daily information by the operator is recorded in a bound book with no page numbering. Ohio Administrative Code 3745-7-09 requires hard bound books with consecutive page numbering, time cards, separate operation and maintenance records, or password protected computer logs. These are required to guarantee authenticity of the data. **Replace the unnumbered book with a method consistent with OAC 3745-7-09.**
2. The calibration date was unreadable on the effluent flow meter. The flow meter is to be calibrated at least annually. **Verify the last calibration for the flow meter and record the date. If it has been over one year, perform calibration.**

Effluent Limit Violations
(March 1, 2013 to September 1, 2013)

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2013	Total Suspended Solids	7D Qty	67.5	68.4786	3/8/2013
June 2013	Copper, Total Recovera	30D Conc	15	15.99	6/1/2013
June 2013	Copper, Total Recovera	30D Qty	0.0563	.08866	6/1/2013

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 action pursuant to the Ohio Revised Code Chapter 6111.

We have reviewed your reports addressing the reasons for the above violations and the actions being taken to prevent further occurrences. No additional information is requested at this time. Future violations must continue to be reported as required by the NPDES Permit as detailed in Part III.12 titled "Noncompliance Notification".