



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.ohio.gov

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

Re: Crawford County
City of Bucyrus
NPDES Permit

June 30, 2010

Mayor and Council
City of Bucyrus
500 South Sandusky Avenue
Bucyrus, Ohio 44820

Dear Mayor and Council:

On December 22, 2009, and March 30, 2010, inspections were conducted at the City of Bucyrus Waste Water Treatment Plant. The December 22, 2009, inspection included a tour of the facility and the completion of a checklist designed to evaluate the major areas of the treatment plant. Mr. Terry Spiegel, Superintendent, provided information to Ohio EPA representative, Michelle Sharp. Our inspection findings and recommendations are summarized below.

December 22, 2009

At the time of the inspection, all major treatment units were in operation except for the filters, which were shut off in November for an extended period of time. The mixed liquor in the aeration tanks had a healthy brown color. There was scum observed on the clarifiers. The effluent appeared clear.

March 30, 2010

The plant flow was approximately 6.1 MGD. The influent was very light in color. The primary clarifiers were covered in scum. The aeration tanks were a healthy brown color and were receiving an adequate amount of air. The secondary clarifiers had some scum on them. The effluent leaving the plant appeared clear.

A review of your discharge monitoring reports from March 2008 through April 2010 shows violations of the terms and conditions of your permit. The specific instances of noncompliance are attached to this letter. These violations place the City in significant noncompliance. Steps must be taken to return the plant to consistent compliance.

A copy of our completed inspection report is enclosed for your records. If you have any questions please call Michelle Sharp at (419) 373-3019.

Yours truly,

Elizabeth A. Wick, P.E.
Water Quality Engineer /Unit Supervisor
Division of Surface Water

MS/cs

Enclosures

pc: Terry Spiegel w/ enclosures, Superintendent, City of Bucyrus WWTP
*DSW, NWDO File w/enclosures

Violation Date	Station	Parameter	Limit Type	Limit	Reported Value
3/1/2008	001	Total Suspended Solids	7D Conc	18	22.0666
3/1/2008	001	Total Suspended Solids	30D Qty	154	198.926
3/1/2008	001	Total Suspended Solids	7D Qty	232	478.811
4/1/2008	001	Total Suspended Solids	7D Qty	232	402.811
5/1/2008	001	Total Suspended Solids	30D Qty	154	220.104
5/2/2008	001	Oil and Grease, Freon	1D Conc	10	89.6
5/8/2008	001	Total Suspended Solids	7D Qty	232	349.798
5/15/2008	001	Total Suspended Solids	7D Qty	232	272.825
6/1/2008	001	Total Suspended Solids	30D Conc	12	18.4666
6/1/2008	001	Total Suspended Solids	7D Conc	18	41.4
6/1/2008	001	Total Suspended Solids	30D Qty	154	319.121
6/1/2008	001	Total Suspended Solids	7D Qty	232	809.389
6/10/2008	001	Dissolved Oxygen	1D Conc	5.0	4.46
6/15/2008	001	Total Suspended Solids	7D Conc	18	18.4333
6/15/2008	001	Total Suspended Solids	7D Qty	232	304.576
7/2/2008	001	pH, Minimum	1D Conc	6.5	4.56
11/1/2008	001	Total Suspended Solids	30D Conc	12	12.6083
12/22/2008	001	Total Suspended Solids	7D Qty	232	289.244
2/1/2009	001	Total Suspended Solids	30D Conc	12	15.1583
2/1/2009	001	Total Suspended Solids	30D Qty	154	198.135
2/8/2009	001	Phosphorus, Total (P)	7D Qty	19.5	27.8939
2/15/2009	001	Total Suspended Solids	7D Conc	18	30.2333
2/15/2009	001	Total Suspended Solids	7D Qty	232	399.923
3/1/2009	001	Total Suspended Solids	30D Conc	12	14.2
3/1/2009	001	Total Suspended Solids	30D Qty	154	218.903
3/8/2009	001	Total Suspended Solids	7D Conc	18	29.1333
3/8/2009	001	Total Suspended Solids	7D Qty	232	623.805
4/1/2009	001	Total Suspended Solids	30D Qty	154	181.076
4/8/2009	001	Phosphorus, Total (P)	7D Qty	19.5	24.1486
4/15/2009	001	Total Suspended Solids	7D Conc	18	25.6
4/15/2009	001	Total Suspended Solids	7D Qty	232	495.557
4/15/2009	001	Phosphorus, Total (P)	7D Qty	19.5	21.6895
6/1/2009	001	Total Suspended Solids	30D Conc	12	17.8083
6/1/2009	001	Total Suspended Solids	30D Qty	154	177.460
6/13/2009	001	Dissolved Oxygen	1D Conc	5.0	4.65
6/15/2009	001	Total Suspended Solids	7D Conc	18	50.6
6/15/2009	001	Total Suspended Solids	7D Qty	232	521.381
6/15/2009	001	Nitrogen, Ammonia (NH3)	7D Conc	3.0	4.73
6/15/2009	001	Nitrogen, Ammonia (NH3)	7D Qty	39	43.5056
6/19/2009	001	Dissolved Oxygen	1D Conc	5.0	4.73
6/20/2009	001	Dissolved Oxygen	1D Conc	5.0	4.55
6/21/2009	001	Dissolved Oxygen	1D Conc	5.0	4.18
7/17/2009	001	Chronic Toxicity, Ceri	1D Conc	1.7	2.
10/1/2009	001	Phosphorus, Total (P)	30D Conc	1.0	1.315
10/1/2009	001	Phosphorus, Total (P)	7D Conc	1.5	1.55
10/22/2009	001	Phosphorus, Total (P)	7D Conc	1.5	1.54
10/23/2009	001	Dissolved Oxygen	1D Conc	5.0	4.93
12/22/2009	001	Total Suspended Solids	7D Qty	232	241.977



State of Ohio Environmental Protection Agency
Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
OH0052922	2PD00021	12/22/2009	S	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Bucyrus 1500 West Southern Avenue Bucyrus, OH 44820	9:00 AM	3/1/2010
	Exit Time	Permit Expiration Date
	10:00 AM	9/30/2014
Name(s) and Title(s) of On-Site Representatives		Phone Number(s)
Mr. Terry Spiegel, Supterintendent		419-562-8981
Name, Address and Title of Responsible Official		Phone Number
Mayor and Council City of Bucyrus 500 S Sandusky Ave. Bucyrus, Ohio 44820		419-562-6767

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	S	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
M	Facility Site Review	S	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)	

Inspector	Reviewer
<i>Michelle M Sharp</i> Date: 6-30-10	<i>Elizabeth A Wick</i> Date: 5/27/10
Division of Surface Water Northwest District Office	Elizabeth A. Wick, P.E. Water Quality Engineer Division of Surface Water Northwest District Office

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 Schedules/Violations

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

Comments/Status:

(a) Violations for total suspended solids have placed the facility on the significant non-compliance list and the facility has had phosphorus violations

(b) The feed line that feeds the chemical that treats phosphorus was plugged.

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..... N
- (d) Wastewater Treatment Works classification (OAC 3745-7)..... III
- (e) Operator of Record holds unexpired license of class required by permit..... Y
Class: III
- (f) Copy of certificate of Operator of Record displayed on-site..... Y
- (g) Minimum operator staffing requirements fulfilled (OAC 3745-7)... N/E
- (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..... Y

Record Keeping:

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

Hard bound notebooks and time sheets

- (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
 - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7..... Y
 - 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)... Y
 - 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 G: Operation & Maintenance (con't)

Collection System:

- (a) Percent combined system: 78%
- (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..... Y
- (f) Portable pumps used to relieve system..... N
- (g) Lift station alarms provided and maintained..... Y
- (h) Are lift stations equipped with permanent standby power
or equivalent..... N
- (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/E

Comments/Status:

Treatment Works

(c) The filters were off between November and spring. Was seeing little difference in suspended solids when they were off versus on.

Section H: Sludge Management

- (a) Sludge management plan (SMP)
Submitted date: 3/20/2004 Approval #: Not submitted N/A
- (b) Sludge management plan current..... Y
(c) Sludge adequately disposed..... Y
(Method: Land Apply)
(d) If sludge is incinerated, where is ash disposed of
(e) Is sludge disposal contracted..... N
(Name:)
(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..... N/A
(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:

The plant processes sludge 3.5 - 4 days per week.

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: 10/1/2009)
(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 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..... 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. 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: Metals and Bioassay

Lab name: Alloway

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	None	None	None	None	None	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: