



**Environmental
Protection Agency**

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

Re: Huron County
City of Bellevue WWTP
NPDES Permit
2PD00037

December 8, 2010

Mr. Jeffrey Crosby
Safety Service Director
City of Bellevue
3000 Seneca Industrial Parkway
Bellevue, Ohio 44811

Dear Mr. Crosby:

On September 22, 2010, Andrew Gall conducted an NPDES permit compliance inspection of the wastewater treatment facilities serving the City of Bellevue. Mr. Eric MacMichael was present and provided information on plant operations and maintenance. The inspection included a tour of the facility and completion of the enclosed compliance inspection form. At the time of the visit, the plant appeared to be operating correctly and a clear final effluent was being discharged to Snyder's Ditch. No samples were taken to verify compliance with permit limits.

Since our last inspection, the primary clarifier drive mechanism broke down in March 2010 and was replaced with a new drive unit. Preventative maintenance at the plant continues to be a priority. The intermediate clarifier tanks and final clarifier tanks have been taken offline to be inspected and were sandblasted and painted and the scrapers and skimmers were replaced as needed. During the inspection Mr. MacMichael indicated that in the next year the rusted out safety railings are slated to be replaced. Once again it was noted that the UV system requires a significant amount of operator attention and maintenance in order to stay operational. There were violations of the Fecal Coliform limits in August 2010. There have been ongoing maintenance and operation problems with the UV system the past few years. Therefore, we recommend that the City evaluate the UV system and determine if it is time to consider its replacement.

There has been ongoing maintenance to the pump stations throughout the collection system. Pumps have been removed and inspected and rebuilt as needed. The installation of the telemetry continues, with one or two stations being alarmed each year. Mr. MacMichael indicated that during the next year he plans to televise portions of the collection system and install flow meters to identify the areas of the collection system with the most Inflow and Infiltration (I/I). This information will then be used to prioritize portions of the collection system that need to be slip lined and repaired. This work should help prevent SSO events from occurring.

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The City should have received a copy of the draft modified NPDES permit in October 2010. This permit will incorporate the Mercury Variance limits and Mercury PMP requirements. In addition the permit contains compliance schedules to develop a pollutant minimization program (PMP) for cyanide and to evaluate the ability of the WWTP to meet *E. Coli* limits when the NPDES permit is renewed in 2012. Please make sure that you and Mr. MacMichael are familiar with the requirements and deadlines associated with these compliance schedules.

Our completed inspection report and a copy of violations since our last inspection is enclosed for your review. If you have any questions, please feel free to contact Mr. Andrew Gall at (419) 373-3003 or via email at andrew.gall@epa.state.oh.us.

Yours truly,



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

AYG/cs

Enclosures

pc: Eric MacMichael, Superintendent, Bellevue WPCF w/enclosures
~~NWDC-DSW File w/enclosure~~

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PD00037*JD	October 2009	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	2.2	3.1	10/15/2009
2PD00037*JD	January 2010	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.15	1/1/2010
2PD00037*JD	February 2010	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.08286	2/1/2010
2PD00037*JD	August 2010	001	31616	Fecal Coliform	30D Conc	1000	1062.85	8/1/2010
2PD00037*JD	August 2010	001	31616	Fecal Coliform	7D Conc	2000	2533.39	8/8/2010
2PD00037*JD	September 2010	001	00665	Phosphorus, Total (P)	30D Conc	1.0	2.025	9/1/2010
2PD00037*JD	September 2010	001	00665	Phosphorus, Total (P)	7D Conc	1.5	5.	9/1/2010
2PD00037*JD	September 2010	001	00665	Phosphorus, Total (P)	30D Qty	9.1	9.35747	9/1/2010
2PD00037*JD	September 2010	001	00665	Phosphorus, Total (P)	7D Qty	13.6	22.1422	9/1/2010
2PD00037*JD	September 2010	001	61426	Chronic Toxicity, Ceri	30D Conc	1.0	1.41	9/1/2010



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
2PD00037	OH0020672	9/22/2010	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
City of Bellevue WPCF 500 Great Lakes Pkwy. Bellevue, OH 44811	10:30 AM	7/1/2007
	Exit Time	Permit Expiration Date
	12:30 PM	1/31/2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Eric MacMichael, Superintendent	419-483-7514	
Name, Address and Title of Responsible Official	Phone Number	
Jeff Crosby, Safety Service Director City of Bellevue 3000 Seneca Industrial Pkwy. Bellevue, OH 44811	419-484-8400	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	S	Flow Measurement	S	Pretreatment
S	Records/Reports	S	Laboratory	S	Compliance Schedule
S	Operations & Maintenance	S	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)			
Inspector		Reviewer	
<i>Andrew Y. Gall</i>	<i>12/6/10</i>	<i>Elizabeth A. Wick</i>	<i>12/7/10</i>
Andrew Y. Gall Environmental Specialist II Division of Surface Water Northwest District Office	Date	Elizabeth A. Wick, P.E. Water Quality Engineer Division of Surface Water Northwest District Office	Date

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

Comments/Status:

- Defoaming agent now added separate from sodium aluminate
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Section F: Compliance Schedules/Violations

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

Comments/Status:

- (a) - Fecal coliform limit violations and Phosphorus
- (b) - UV bulb cleaning frequency being increased, U.V system needs constant maintenance to maintain operations
- (e) Finishing up local limits evaluation.

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)... Y
- (h) Routine and preventative maintenance scheduled/performed... Y
- (i) Any major equipment breakdown since last inspection..... Y
- (j) Operation and maintenance manual provided and maintained.... Y
- (k) Any plant bypasses since last inspection..... N
- (l) Regulatory agency notified of bypasses..... Y
 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)

Operators log book in operations office Super keeps monthly log summary on computer.

- (c) Log book(s) kept onsite (in an area protected from weather)..... Y
- (d) 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..... 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: %
- (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..... N
- (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..... Y
- (j) Any complaints received since last inspection of basement flooding Y
- (k) Are any portions of the sewer system at or near capacity..... Y

Comments/Status:

Treatment Works:

- Three Operators with Class III License work at plant.
- Clarifier tanks being rehabbed by draining, power washing and painting and replacing skimmers and drives as needed.
- Primary Clarifier drive broke March 3, 2010 and replaced with a new unit.
- Plans to write a New O&M manual which will also include a valve schematic of entire plant.

Collection System:

- Alarms being added as money permits to lift stations, plans to install alarms on Hospital lift station and Maple Ave. next year., all pump station pumps are being pulled and rehabbed
- Check valves installed at two homes to address basement flooding complaints due to street flooding.
- Plan to televise sewers in 2011 and install flow meters to identify worst I/I areas and

then develop a plan to slip line and repair worst portions of system.

Section H: 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: Land application-Activated Sludge, Landfill-Primary Sludge)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... Y
(Name: Mapleview Farms does land app and Mid-Ohio hauls to landfill)
- (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..... Y
- (k) Is sludge adequately processed (digestion, pathogen control)..... Y

Comments/Status:

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: 9/1/2010)
- (c) Secondary instruments operated and maintained..... Y
- (d) Flow measurement equipment adequate to handle full range
of flows..... N
- (e) Actual flow discharged is measured..... N
- (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. Y
 - (d) If (c) is yes, are results in permittee's self-monitoring report..... Y
 - (e) Commercial laboratory used..... Y
- Parameters analyzed by commercial lab: Mercury, Metals, Sludge, Oil and Grease, Toxicity

Lab name: Jones and Henry, Alloway, Enviro Science

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

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:

Permit # : 2PD00037
NPDES # : OH0020672

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

Form Approved
OMB No. 158-R0035

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection	S	
	Safety Features	S	Metal Safety Chains Installed, Metal grating installed over valves
	Bypasses	-	
	Stormwater Overflows	-	
	Alternate Power Source	S	Generator , Run once/week and load tested once/quarter
Preliminary	Maintenance of Collection Systems	S	I/I reduction through smoke testing and installing manhole dishes
	Pump Station	In	
	Ventilation	S	
	Bar Screen	In	
	Disposal of Screenings / Grit	S	Landfill
	Grit Chamber	In	1 Chamber online, 1 Chamber broken, plan to refurbish 2 nd chamber next year
	Septage Receiving Station	In	Station in use by several haulers, must call ahead ½ hr. before arriving
	Alum Feed System	In	Switched to sodium aluminate
Primary	Settling Tanks	In	New Drive Unit Installed
	Scum Removal	-	
	Sludge Removal	-	
	Effluent	S	
Sludge Disposal	Digesters	In	4 aerobic, using belt press to gravity thicken sludge to 6%-7% solids
	Temperature and pH	-	Diffusers cleaned in two of the digesters
	Gas Production	-	
	Heating Equipment	-	
	Sludge Pumps	In	4 Moyno sludge pumps -- Being Rehabbed as needed
	Sludge Belt Filter Press	In	Ashbrook Belt Filter Press
	Disposal of Sludge	S	Mapleview Farms -- Land Applies Liquid, Mid-Ohio hauls primary to landfill
	In-Vessel Compost Bins	OUT	Bins were filled, working on developing a rotation ,
Other	Flow Meter and Recorder	In	Influent Flow Meter
	Records	S	Operators Log Book
	Lab Controls	S	New pH meter and new Ammonia probe
	Chemical Treatment	In	Sodium Aluminate, Defoamer
Secondary-Tertiary List items as required	Nitrification Towers	In	2 Filters online
	Aeration Tanks	In	3 tanks, operating in plug flow mode -- Light Foam
	Intermediate Clarifiers	In	2 tanks online, low foam, low scum, 1 tank off line for maintenance
	Filtrate Clarifier	In	Used when sludge press is operated, effluent routed to primary clarifier
	Final Clarifiers	In	2 in operation, Both drained and repainted this year
Disinfection	Effluent	S	Clean, very light foam Foam, No Odor
	Disinfection System	In	(UV) -- System overhauled last winter, bulbs cleaned every 2 weeks
	Effective Dosage	-	Outfall signs in place
	Contact Time	-	
	Contact Tank	-	