

The voids next to the tank need to be filled in. Area should be contoured to drain surface water away from the tank.





**Environmental
Protection Agency**

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

Re: Sandusky County
Fremont WWTP
NPDES Permit

November 1, 2011

Mayor & Council
City of Fremont
323 South Front Street
Fremont, Ohio 43420

Dear Mayor & Council:

On September 22, 2011, Mary Beth Cohen conducted a compliance inspection of the Fremont Water Pollution Control Center (WPCC). Mr. Jeff Lamson, Superintendent, and Mr. Josh Wehring, Assistant Superintendent, were present and provided information regarding plant operations. All major treatment units were in operation during the inspection. The following items were noted:

Mr. James Johnson has retired and Mr. Jeff Lamson has moved into the position of WPCC Superintendent. Mr. Lamson holds a Wastewater Treatment III Certificate (WW3-1011985-91).

In accordance with OAC 3745-7-04, the WPCC will be classified as a Class IV treatment works. This classification will be included in the renewed NPDES permit with a requirement to obtain a Class IV certified operator within 12 months of the effective date of the permit. Mr. Lamson has indicated that he has applied for and received approval to take a class IV examination in accordance with Ohio Administrative Code (OAC) 3745-7-06. Additionally, please see OAC 3745-7-02 (E), which states that the Director may approve an operator with a valid Class III certificate to be the operator of record of a Class IV treatment works for a period no longer than two years.

Stress testing has been conducted at the wastewater treatment plant. Testing was limited based on pumping capacity. All of the return activated sludge (RAS) was directed to one aeration tank for the simulated stress tests.

A modification request has been received to add the previously unpermitted combined sewer overflow (CSO) located at Fulton Street/Bull Run.

Ohio EPA and the City have discussed the Long Term Control Plan (LTCP) and No Feasible Alternative (NFA) report and have agreed on the plan forward. A LTCP compliance schedule will be included in the NPDES permit renewal.

A Permit to Install (PTI) has been submitted and approved to replace the North Street siphon.

It was indicated that Mr. Randy Schulze, Superintendent of Sewers, has retired and Mr. Robert Ward has moved into the position. Robert holds an active Wastewater Collection-II Certificate (WC2-1045649-10). Continued coordination with the Superintendent of Sewers is required for NPDES required reporting of separate sewer system overflows (SSO) and/or basement flooding.

A review of your discharge monitoring reports (12/2010 through 09/2011) shows the following permit violations during this time:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2011	001	00300	Dissolved Oxygen	1D Conc	5	4.8	6/4/2011
July 2011	001	50092	Mercury, Total	30D Conc	1.3	1.87833	7/1/2011

Our completed inspection report form is enclosed for your review. If there are any questions, please contact Mary Beth Cohen at (419) 373-3014.

Yours truly,



Elizabeth A. Wick, P.E.
Environmental Engineer/Section Manager
Division of Surface Water

MBC/jlm

Enclosure

pc: [Jeff Lamson, Superintendent]

NWDO File



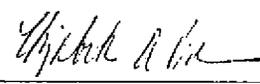
State of Ohio Environmental Protection Agency
Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
2PD00007	OH0025291	09/22/2011	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Fremont Water Pollution Control Center 1019 Sand Street Fremont, OH 43420	9:30 am	May 1, 2010
	Exit Time	Permit Expiration Date
	1:30 pm	January 31, 2012
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Jeff Lamson, Superintendent Josh Wehring, Asst. Superintendent	419-334-3876	
Name, Address and Title of Responsible Official	Phone Number	
Mayor and Council City of Fremont 323 S. Front St Fremont, OH 43420	419-334-9556	

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	N	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	M	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)			
<p>It was indicated that the Chlorine contact tank probably needs to be cleaned (last cleaned 1988).</p> <p>Stress testing has been conducted at the wastewater treatment plant. Testing was limited based on pumping capacity. All of the RAS was directed to one aeration tank for the simulated stress tests.</p> <p>The Long Term Control Plan Schedule will be included in the NPDES permit renewal.</p>			
Inspector		Reviewer	
 Mary Beth Cohen Division of Surface Water Northwest District Office		 Elizabeth A. Wick, P.E. Environmental Engineer/Section Manager Division of Surface Water Northwest District Office	
Date		Date	
10/26/11		10/27/11	

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:

* Application has been received for a (previously unpermitted) additional CSO.

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..... | Y |
| (d) Compliance schedule contained in NPDES permit | |
| (e) Permittee is meeting compliance schedule..... | Y |

Comments/Status:

The required submittal of the No Feasible Alternative (NFA) report was received and is currently under review.

If a sand filter has been off line, it is back washed prior to re-start to reduce issues with low D.O. at the outfall.

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)..... 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..... N/E
- (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)

<i>Computer log</i>

- (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: 65%
- (b) Any collection system overflows since last inspection..... Y
(CSO and/or SSO)
- (c) Regulatory agency notified of overflows (SSOs)..... N
- (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/E
- (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 N
- (k) Are any portions of the sewer system at or near capacity..... Y

Comments/Status:

One of the aeration tanks remains out of service while the IFAS pilot project plastic media remains.

Continued coordination with the superintendent of sewers is required for NPDES required reporting of separate sewer system overflows (SSO) and/or basement flooding.

It was indicated that Robert Ward is the new Superintendent of Sewers. Robert holds an active Wastewater Collection - 2 Certificate (WC2-1045649-10).

Hydraulic overloads are limited based on the plants available pumping capacity.

Section H: Sludge Management

- (a) Sludge management plan (SMP)
Submitted date: 02/06/2002 Approval #03-428-PW Not submitted N/A
- (b) Sludge management plan current..... Y
- (c) Sludge adequately disposed..... Y
(Method: Land application)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... Y
(Name: Midwest Compost)
- (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:

*A RAS pump impeller has been replaced.
Available sludge storage at the plant is limited to 75 - 80 days.*

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: Magnetic Flow Meter)
- (b) Calibration frequency adequate Y
(Date of last calibration:)
- (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:

Influent flow monitoring is reported and used for final flow proportioned sampling. The final effluent flow meter is maintained, but is not set up to include flows that would bypass the tertiary filters.

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, cyanide, hexavalent chromium, nitrate/nitrite, organics, TTOs, O&G, and TKN

Sludge parameters: arsenic, selenium, molybdenum, phosphorus, potassium, fecal

Lab name:

Jones & Henry / ENO River Labs (PCB's) / A&L Labs (sludge fecals)

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: 2011 - DMQRA #31 *

Comments/Status:

The City received a perfect score on the 2011 - DMQRA #31.

Analyses being performed more frequently than required by permit are reported in the self monitoring reports as allowed by the e-DMR program.

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:



F. GUIDELINES - 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	
	Bypasses	Out	
	Storm water Overflows	Out	
	Alternate Power Source	S	Three permanent generators @ plant w/ one portable for use in system
	Storm Ret. Pond / E.Q. Basin	In	Sand Road Pond - pond water being routed to head of plant
Preliminary	Maintenance of Collection Systems	-	
	Pump Station	In	
	Ventilation	In	
	Bar Screen	In	Two units (influent comes in at two different locations)
	Disposal of Screenings	S	Landfill
	Comminutor	In	
	Grit Chamber	In	Grit removal auger is run manually every 2 hours
	Disposal of Grit	S	Landfill
Primary	Grit Dewatering	In	Runs 12 X / day @ 15 min / run
	Settling Tanks	In	Two circular units, both in use
	Scum Removal	In	Landfill
	Sludge Removal	In	
Sludge Disposal	Effluent	S	Effluent was observed to have slight grey cast
	Digesters - Anaerobic	In	Two stage anaerobic units series (south digester lid caved in and now removed)
	Temperature and pH	S	Runs at 100' -102' F
	Gas Production	S	Flared off
	Heating Equipment	In	Boiler in operation (old unit as backup)
	Sludge Pumps	In	2 RAW, 3 RAS, 2 WAS, 2 Digested and 2 Thickener
	Sludge Storage	M	Limited storage capacity
	Disposal of Sludge	S	Land application
Other	Chemical Additive / Treatment	Out	Polymer and sodium bicarbonate added to sludge as needed
	Thickener / Holding	In	1 acrated thickener tank, 5 sludge holding tanks
	Flow Meter and Recorder	In	
	Records	S	
	Lab Controls	-	
Secondary Tertiary	Chemical Treatment	In	Ferrous chloride for phosphorus removal
	Chemical Treatment	Out	Phosphoric acid no longer being used
	Aeration Treatment (step feed)	In	4 of 6 tanks in use (one out due to IFAS media not yet removed)
	Secondary Settling Tanks	In	2 of 3 tanks in use (lower flows) - some algae growth on weirs
	Aeration Blowers	In	2 of 4 in use
Disinfection	Tertiary Sand Filters	In	3 units in use and 4th unit was being cleaned
	Effluent	S	Final effluent being discharged appeared to be clear w/ slight green cast
	Disinfection System	In	Sodium hypochlorite (used all year long to keep sand filters oxidized)
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	In	
	Dechlorination	In	Sodium bisulfate - used all year long (tank may need to be replaced)
Chlorine	In	Chlorine used for RAS to control filamentatious growth as needed	

