



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Road  
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 Korleski, Director

Re: Huron County  
City of Norwalk WWTP  
NPDES Permit

February 22, 2008

Mr. Dale Shepphard, Safety Service Director  
City of Norwalk  
P.O. Box 30  
Norwalk, OH 44857

Dear Mr. Shepphard

On January 31, 2008, Andrew Gall completed a compliance inspection of the wastewater treatment facilities serving the City of Norwalk. Mr. Rick Brown, Mr. Robert "Nick" Butler and Mr. Richard Moore were present for a tour of the facilities and to provide information on plant and sewer operations and maintenance. An inspection checklist was used to review major areas of facility operations.

Construction work was recently completed on wastewater treatment plant improvements. The improvements include expansion of the equalization (EQ) basin, new diversion chamber, new head works and grit removal system, two primary settling tanks and sludge storage tank. As a result of the improvements, the WWTP can receive higher flows resulting from future CSO removal projects. During the inspection it was indicated that outfall 008, raw bypass, may have been eliminated during construction. If it is determined that the bypass has been eliminated, please submit a written letter stating this.

The Corwin St. sanitary sewer improvements were recently completed resulting in Woodlawn Ave. CSO (CSO #4) being removed from service. The Washington St. Routing Study will be completed this year as required by the CSO LTCP. Also a catch basin cleaning, sewer jetting and sewer televising program has been implemented. It was also indicated that the City is considering installing permanent standby power/generators on several critical pump stations. We strongly encourage the City to move ahead with these projects so that the pump stations remain operational during power outages.

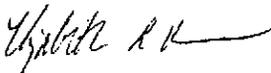
At the time of our visit, a clear final effluent was observed being discharged from the plant. All major treatment units were in service and the recently completed plant upgrades have made noticeable improvements to plant operations.

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Monthly operating reports are being submitted in a timely manner. A review of monthly operating reports since our last inspection indicates that there were effluent limit violations of Mercury in April and December 2007. A copy of these violations is enclosed for your review. In order to help avoid future violations please make sure that you are following the pollutant minimization requirements of your mercury variance.

Our completed inspection report 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](mailto:andrew.gall@epa.state.oh.us)

Yours truly,



Elizabeth A. Wick, P.E.  
District Engineer  
Division of Surface Water

/lb

Enclosed

pc: Mr. Rick Brown, Superintendent

~~NWDC-DSW file w/enclosure~~



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
2PD00024	OH0052604	1/31/2008	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Norwalk WWTP 201 Plank Rd. Norwalk, OH 44857	10:30 AM	4/1/2006
	Exit Time	Permit Expiration Date
	12:30 PM	7/31/2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Rick Brown, WWTP Superintendent	(419) 663-6755	
Nick Butler, Asst. WWTP Superintendent	(419) 663-6755	
Richard Moore, Sewer System Superintendent	(419) 663-6715	
Name, Address and Title of Responsible Official	Phone Number	
Dale Sheppard, Safety Service Director City of Norwalk P.O. Box 30 Norwalk, OH 44857		

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	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)			
See Attached Letter			
Inspector		Reviewer	
<i>Andrew Y. Gall</i>	2/20/08	<i>Elizabeth A. Wick</i>	2/20/08
Andrew Y. Gall Environmental Specialist 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)..... | Y |
| (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.....                        | Y |
| (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 |

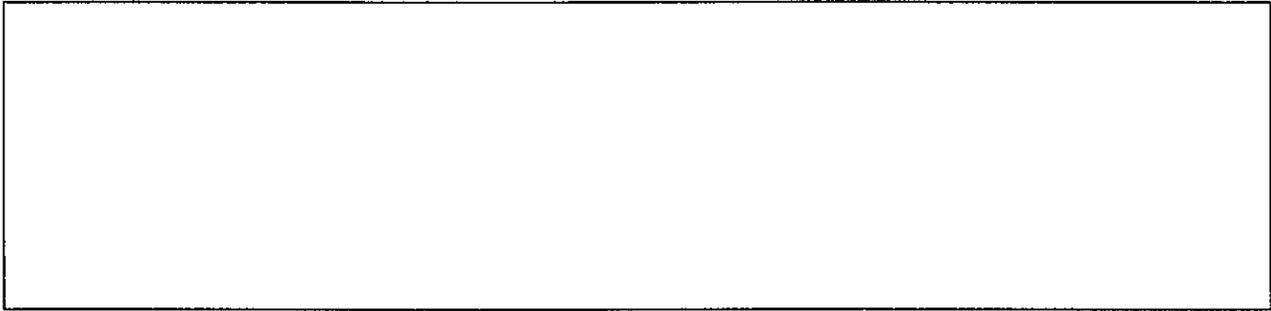
Comments/Status:

New Flow Diversion Chamber, Larger EQ Basin, New Headworks, New Grit Removal, Two New Clarifiers and New Sludge Holding Tank now online  
During construction Outfall 008 - Raw Bypass may have been eliminated, Rick B. to verify and send a letter if Raw Bypass has been eliminated.

**Section F: Compliance Schedules/Violations**

- |   |              |
|---|--------------|
| (a) Any significant violations since the last inspection..... | N            |
| (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:



**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..... 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..... N
- (j) Operation and maintenance manual provided and maintained..... Y
- (k) Any plant bypasses since last inspection..... Y
- (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..... N/E
- (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/E
- (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: 30%
- (b) Any collection system overflows since last inspection..... Y  
 (CSO  and/or SSO )
- (c) Regulatory agency notified of overflows (SSOs)..... Y
- (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 Y
- (k) Are any portions of the sewer system at or near capacity..... N

**Comments/Status:**

Corwin St. Improvements Completed

- Looking at putting permanent power on critical lift stations, Jefferson St., Gallup, 250 Pump Station
- Completing Washington Routing Study as part of CSO LTCP
- Implementing catch basin cleaning, televising and sewer jetting on 1/4 of city each year.
- Pleasant St. Lift Station has significant I/I, City is working on smoke testing, and downspout removal program
- Only received basement back up complaints during large rainfall events

**Section H: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date: 2/5/1986 Approval #: 03-233 Not submitted  N/A
- (b) Sludge management plan current..... Y
- (c) Sludge adequately disposed..... Y  
(Method: Land Application by Mapleview Farms)
- (d) If sludge is incinerated, where is ash disposed of
- (e) Is sludge disposal contracted..... Y  
(Name: Mapleview Farms)
- (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:**

New sludge holding tank is now online.  
At current flow rate, it is estimated that the plant has approximately 1.5 years of sludge storage.

**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: )
- (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:**

New influent flow meter installed  
Effluent flow meter is calibrated annually and checked in detail for accuracy each month. If found to be inaccurate, it will be recalibrated.

**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, Organics, Oil and Grease, Sludge Dioxin, Toxicity

Lab name: Jones and Henry, Wright State, New England Bioassy

*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: 9/1/2007

**Comments/Status:**

(g) pH and D.O. meter calibrated daily, Balances calibrated annually  
 (l) On toxicity testing, passed everything except Nitrates, lab folks working with Tutu in Columbus to resubmit

**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?

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	
	Stormwater Overflows	Out	
	Alternate Power Source	S	Generator upgraded to handle plant upgrades
	EQ Basin	Out	Expanded to 4 MG, ramp for clean out equipment installed
Preliminary	Maintenance of Collection Systems	S	
	Pump Station	In	11 Pump Stations, Back up power may be added to larger lift stations
	Ventilation	S	
	Bar Screen	In	Andritz Aqua Screen Bar Screen
	Disposal of Screenings / Grit	S	Hauled by WWTP in a trailer to Erie County Landfill
	Grit Chamber	In	Air Cyclone Degritter System, 2 Air Compressors, 2 Grit Pumps
	Septage Receiving Station	In	2 Holding Tanks, 2 Vaughn Chopper Pumps, Sampling Station
	Ferric Feed System	Out	Piping in place for future use if needed
Primary	Settling Tanks	In	2 New Primary Clarifiers
	Scum Removal	In	
	Sludge Removal	In	
	Effluent	S	
	Scum Pumping Station	In	
	Post Primary Splitter Box	Out	Flow to trickling filters or bypass when flows exceed 8MGD
Sludge Disposal	Digesters	In	3 Anaerobic, Possibly taking oldest one offline
	Temperature and pH	S	
	Gas Production	S	Wasted
	Heating Equipment	In	Heat Exchanger
	Sludge Pumps	In	2 Raw, 2 Transfer, Digester Mix Pumps
	Sludge Gravity Thickener	In	No Scum Floating on Top
	Sludge Holding Tank	In	
	Disposal of Sludge	S	Land Application by Mapleview Farms
Other	Flow Meter and Recorder	In	New Influent Meter Installed, Effluent meter used for reporting
	Records	S	
	Lab Controls	S	
	Chemical Treatment	In	
Secondary-Tertiary List items as required	Primary Trickling Filters	In	3 Domed, One Feed Pump down for regular O/M
	Secondary Trickling Filter	In	
	Nitrification Tower	In	2 Pumps
	Final Clarifiers	In	5 - Concrete on tanks was rehabbed as part of the upgrades
	Rapid Sand Filters	In	6 Filters, 1 down for service
	Sand Filter Screw Pumps	In	Alternate between 2 pumps
Disinfection	Effluent	S	Clean, No Foam, No Odor
	Disinfection System	Out	Out of Season
	Effective Dosage	-	
	Contact Time	-	
	Contact Tank	S	
	Dechlorination	Out	Out of Season

Get New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PD00024*PD	April 2007	001	50092	Mercury, Total (Low Le	30D Conc	6.8	7.39	4/1/2007
2PD00024*PD	December 2007	001	50092	Mercury, Total (Low Le	30D Qty	0.0000	.0001	12/1/2007