



State of Ohio Environmental Protection Agency

Northwest District Office

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TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

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

Re: Ottawa County
Danbury Township Sewer District # 7
And Portage- Catawba Island WWTP
NPDES Permit

July 17, 2007

Mr. Kelly Frey, P.E.
Ottawa County Sanitary Engineer
315 Madison Street, Room 106
Port Clinton, Ohio 43452

Dear Mr. Frey:

On June 5, 2007, compliance inspections were made at the Ottawa County Danbury Township and Portage- Catawba Island WWTP's. Mr. Alan Jacoby, Superintendent, was present and provided information on facility operations. The inspections consisted of an interview utilizing a compliance checklist covering major areas of facility operations, and visit to both plants. Our comments and recommendations are as follows:

Danbury Township – This facility was recently upgraded with new headworks, third aerated lagoon cell and Actiflo unit for phosphorus removal. The plant has been in full compliance with NPDES permit final table effluent limits since the October 31, 2006 effective date. The plant is very well operated and maintained.

One trouble area noted by Mr. Jacoby were some high infiltration/inflow (I/I) rates from older sewer systems at some MHP's which have been tapped into the collection system. The county is looking into ways to assist owners in rehabilitation or replacing older sewers.

The NPDES permit expires on January 31, 2008. As of this date we have yet to receive the renewal application. It was due six months prior to expiration, and should be submitted as soon as possible. We discussed the upcoming transition to the new E.coli bacteria standard for Lake Erie dischargers and possible ammonia limit. Mr. Jacoby also asked about licensing requirements for the collection system. Since, Danbury requires a Class III Wastewater Operator; the collection system requires a Class II collection system operators license.

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Portage-Catawba Island- Both operation and maintenance were also very good at this facility, and a clear final effluent was observed being discharged from the plant. I/I from some older MHP's is also an issue at this facility. Fine bubble diffusers were replaced in the aeration and sludge storage tanks. NPDES permit monthly operating reports indicate full compliance thus far in 2007. A few oil & grease violations were noted in 2006.

Please find enclosed a copy of our inspection report. If there are any errors, or you have any questions, please feel free to call me at (419) 373-3020 or email at rick.zuzik@epa.state.oh.us.

Yours truly,



Richard A. Zuzik, MSE
Division of Surface Water

//lr

Enclosure

pc: Alan Jacoby, Superintendent, w/attachments
DSW-NWD-File

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
<u>2PG00053</u>	<u>oh0053660</u>	<u>07/06/05</u>	<u>C</u>	<u>S</u>	<u>1</u>

Section B: Facility Data

Name and Location of Facility Inspected Danbury Township WWTP 5783 Von Glahn Road Danbury Twp.	Entry Time	Permit Effective Date
	11:00 a.m.	August 1, 2003
	Exit Time	Permit Expiration Date
	12:30 p.m.	January 31, 2008

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Alan Jacoby, Superintendent	(419) 797-9645

Name, Address and Title of Responsible Official	Phone Number
Kelly Frey, Ottawa County Sanitary Engineer	(419) 734-6725

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>N</u> Pretreatment
<u>S</u> Records/Reports	<u>S</u> Laboratory	<u>S</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluent/Receiving Waters	<u>S</u> Self-Monitoring Program
<u>S</u> Facility Site Review	<u>S</u> Sludge Storage/Disposal	<u> </u> Other
<u>S</u> Collection System		

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


 Richard A. Zuzik, MSE, June 5, 2007, Ohio EPA, Northwest
 Name(s) and Signature(s) of Inspector(s) Date District Office


 Elizabeth A. Wick P.E., Ohio EPA, Northwest
 Name and Signature of Reviewer Date District Office

Sections E thru K: Complete on all inspections as appropriate. N/A - Not Applicable N/E - Not Evaluated

Section E: Permit Verification

	Yes	No	N/A	N/E
INSPECTION OBSERVATIONS VERIFY THE PERMIT				
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	X	___	___	___
(b) CORRECT NAME AND LOCATION OF RECEIVING WATERS	X	___	___	___
(c) PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION (INDUSTRIES)	___	___	X	___
(d) FLOWS AND LOADINGS CONFORM WITH NPDES PERMIT PERMIT APPLICATION/BRIEFING MEMO	x	___	___	___
(e) TREAT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION/BRIEFING MEMO	___	X	___	___
(f) NEW TREATMENT PROCESS(ES) ADDED SINCE LAST INSPECTION	___	___	___	___
(g) NOTIFICATION GIVEN TO STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES	___	___	X	___
(h) ALL DISCHARGES ARE PERMITTED	X	___	___	___
(i) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT	X	___	___	___

COMMENTS/STATUS:

Section F: Compliance Schedules/Violations

	Yes	No	N/A	N/E
(a) ANY SIGNIFICANT VIOLATIONS SINCE THE LAST INSPECTION	___	X	___	___
(b) PERMITTEE IS TAKING ACTIONS TO RESOLVE VIOLATIONS	___	___	X	___
(c) PERMITTEE HAS COMPLIANCE SCHEDULE	X	___	___	___
(d) COMPLIANCE SCHEDULE CONTAINED IN NPDES	___	___	___	___
(e) PERMITTEE IS MEETING COMPLIANCE SCHEDULE	X	___	___	___

COMMENTS/STATUS:

3 year compliance schedule for new phosphorus limits effective 10-1-06.

Section G: Operation and Maintenance

TREATMENT WORKS:

	Yes	No	N/A	N/E
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED				
(a) STANDBY POWER AVAILABLE GENERATOR <u>X</u> DUAL FEED	<u>X</u>	___	___	___
(b) ADEQUATE ALARM SYSTEM AVAILABLE FOR POWER OR EQUIPMENT FAILURES	<u>X</u>	___	___	___
(c) ALL TREATMENT UNITS IN SERVICE OTHER THAN BACKUP UNITS	<u>X</u>	___	___	___
(d) SUFFICIENT OPERATING STAFF PROVIDED # SHIFTS <u>2</u> DAYS/WEEK <u>5</u>	<u>X</u>	___	___	___
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>III</u>	<u>X</u>	___	___	___
(f) ROUTINE AND PREVENTIVE MAINTENANCE SCHEDULED/PERFORMED ON TIME	<u>X</u>	___	___	___
(g) ANY MAJOR EQUIPMENT BREAKDOWN SINCE LAST INSPECTION	___	<u>X</u>	___	___
(h) OPERATION AND MAINTENANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(i) ANY PLANT BYPASSES SINCE LAST INSPECTION	___	___	<u>X</u>	___
(j) REGULATORY AGENCY NOTIFIED OF BYPASSES <u> </u> ON MORS <u> </u> 800 NO.	___	___	<u>x</u>	___
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	___	<u>X</u>	___	___

COLLECTION SYSTEM:

	Yes	No	N/A	N/E
(a) PERCENT COMBINED SYSTEM <u>0</u> %				
2 (b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO <u> </u> SSO <u>x</u>)	<u>X</u>	___	___	___
(c) REGULATORY AGENCY NOTIFIED OF OVERFLOWS (SSOs)	<u>x</u>	___	___	___
(d) CSO O AND M PLAN PROVIDED AND IMPLEMENTED	___	___	<u>X</u>	___
(e) CSOs MONITORED AND REPORTED IN ACCORDANCE WITH PERMIT	___	___	<u>x</u>	___
(f) PORTABLE PUMPS USED TO RELIEVE SYSTEM	<u>X</u>	___	___	___
1 (g) LIFT STATION ALARM SYSTEMS PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(h) ARE LIFT STATIONS EQUIPPED WITH PERMANENT STANDBY POWER OR EQUIVALENT	<u>X</u>	___	___	___
(i) IS THERE AN INFLOW INFILTRATION PROBLEM (SEPARATE SEWER SYSTEM) OR WERE THERE ANY MAJOR REPAIRS TO COLLECTION SYSTEM SINCE LAST INSPECTION	___	<u>X</u>	___	___
(j) ANY COMPLAINTS RECEIVED SINCE LAST INSPECTION OF BASEMENT FLOODING	<u>x</u>	___	___	___
(k) ARE ANY PORTIONS OF THE SEWER SYSTEM AT OR NEAR CAPACITY	___	<u>x</u>	___	___

COMMENTS/STATUS:

1. I/I issues at older MHP's that have been tapped in.
2. 3 SSO's following very heavy rain event.

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP)
SUBMITTED DATE _____ APPROVAL # _____ NOT SUBMITTED _____ N/A X

	Yes	No	N/A	N/E
(b) SLUDGE MANAGEMENT PLAN CURRENT	<u>X</u>	_____	_____	_____
(c) SLUDGE ADEQUATELY DISPOSED (METHOD: <u>Land application</u>)	<u>X</u>	_____	_____	_____
(d) IF SLUDGE IS INCINERATED, WHERE IS ASH DISPOSED OF _____	_____	_____	_____	_____
(e) IS SLUDGE DISPOSAL CONTRACTED (NAME: <u>Mid Ohio</u>)	<u>X</u>	_____	<u>X</u>	_____
(f) HAS AMOUNT OF SLUDGE GENERATED CHANGED SIGNIFICANTLY SINCE LAST INSPECTION	_____	<u>X</u>	_____	_____
(g) ADEQUATE SLUDGE STORAGE PROVIDED AT PLANT	<u>X</u>	_____	_____	_____
(h) LAND APPLICATION SITES MONITORED AND INSPECTED PER SMP	<u>X</u>	_____	_____	_____
(i) RECORDS KEPT IN ACCORDANCE WITH STATE AND FEDERAL LAW	<u>X</u>	_____	_____	_____
(j) ANY COMPLAINTS RECEIVED IN LAST YEAR REGARDING SLUDGE	_____	<u>X</u>	_____	_____
(k) IS SLUDGE ADEQUATELY PROCESSED (DIGESTION, DEWATERING, PATHOGEN CONTROL)	<u>x</u>	_____	_____	_____

COMMENTS/STATUS:
Lagoon System

Section I: Self-Monitoring Program

Part 1. Flow measurement

	Yes	No	N/A	N/E
(a) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED & MAINTAINED <u>X</u> TYPE OF DEVICE: <u>X</u> ULTRASONIC & PARSHALL FLUME _____ ULTRASONIC & WEIR _____ WEIR _____ CALCULATED FROM INFLUENT _____ OTHER (Specify _____)	<u>X</u>	_____	_____	_____
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration <u>6/06</u>)	<u>X</u>	_____	_____	_____
(c) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED	<u>x</u>	_____	_____	_____
(d) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOWS	<u>X</u>	_____	_____	_____
(e) ACTUAL FLOW DISCHARGED IS MEASURED	<u>X</u>	_____	_____	_____
(f) FLOW MEASURING EQUIPMENT INSPECTION FREQUENCY: <u>x</u> DAILY _____ WEEKLY _____ MONTHLY _____ OTHER	_____	_____	_____	_____

COMMENTS/STATUS:

Part 2. Sampling

	Yes	No	N/A	N/E
(a) SAMPLING LOCATION(S) ARE AS SPECIFIED BY PERMIT	<u>X</u>	___	___	___
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT	<u>X</u>	___	___	___
(c) PERMITTEE USES REQUIRED SAMPLING METHOD	<u>X</u>	___	___	___
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE	<u>X</u>	___	___	___
(i) SAMPLES REFRIGERATED DURING COMPOSITING	<u>X</u>	___	___	___
(ii) PROPER PRESERVATION TECHNIQUES USED	<u>X</u>	___	___	___
(iii) CONTAINERS AND SAMPLE HOLDING TIMES PRIOR TO ANALYSES CONFORM WITH 40 CFR 136.3	<u>X</u>	___	___	___
(e) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g., continuous monitoring instrumentation, calibration and maintenance records)	<u>X</u>	___	___	___
(f) ADEQUATE RECORDS MAINTAINED OF SAMPLING DATE, TIME, EXACT LOCATION, ETC.	<u>X</u>	___	___	___

COMMENTS/STATUS:

Part 3. Laboratory

	Yes	No	N/A	N/E
GENERAL				
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED (40 CFR 136.3)	<u>X</u>	___	___	___
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED	___	<u>X</u>	___	___
(c) ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT	<u>x</u>	___	___	___
(d) IF (c) IS YES, ARE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT	<u>x</u>	___	___	___
(e) COMMERCIAL LABORATORY USED	<u>X</u>	___	___	___
(1) PARAMETERS ANALYZED BY COMMERCIAL LAB Metals, Nitrates, O&G, Sludge				

(2) LAB NAME: Ginosko Environmental

QUALITY CONTROL/QUALITY ASSURANCE

(f) QUALITY ASSURANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(g) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT	<u>X</u>	___	___	___
(h) ADEQUATE RECORDS MAINTAINED	<u>X</u>	___	___	___
(i) RESULTS OF LATEST USEPA QUALITY ASSURANCE PERFORMANCE SAMPLING PROGRAM DATE : <u>6/06</u> <u>X</u> SATISFACTORY <u> </u> MARGINAL <u> </u> UNSATISFACTORY				

COMMENTS/STATUS:

- 14. Staff member operating lab has class I lab analyst certification
- 15. Every sample

USEPA NPDES No. _____
 Ohio NPDES No. _____

Section J: Effluent/Receiving Water Observations

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOLIDS	COLOR	OTHER
001	None	None	None	None	None	None	

COMMENTS/STATUS:

Section K: Multimedia Observations

	Yes	No	N/A	N/E
(a) ARE THERE INDICATIONS OF SLOPPY HOUSEKEEPING OR POOR MAINTENANCE IN WORK AND STORAGE AREAS OR LABORATORIES	___	<u>X</u>	___	___
(b) DO YOU NOTICE STAINING OR DISCOLORATION OF SOILS, PAVEMENT, OR FLOORS	___	<u>x</u>	___	___
(c) DO YOU NOTICE DISTRESSED (UNHEALTHY, DISCOLORED, DEAD) VEGETATION	___	<u>x</u>	___	___
(d) DO YOU SEE UNIDENTIFIED DARK SMOKE OR DUSTCLOUDS COMING FROM SOURCES OTHER THAN SMOKESTACKS	___	<u>x</u>	___	___
(e) DO YOU NOTICE ANY UNUSUAL ODORS OR STRONG CHEMICAL SMELLS	___	<u>x</u>	___	___
(f) DO YOU SEE ANY OPEN OR UNMARKED DRUMS, UNSECURED LIQUIDS, OR DAMAGED CONTAINMENT FACILITIES?	___	<u>x</u>	___	___

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:

USEPA NPDES No. _____
Ohio NPDES No. _____

Section L: Complete as appropriate for sampling inspections
DO NOT ATTACH THIS PAGE WHEN COMPLETING REPORTS FOR EVALUATION INSPECTIONS

Section L: Sampling Procedures (for CSIs)

- ___ GRAB SAMPLES OBTAINED
- ___ COMPOSITE OBTAINED
- ___ COMPOSITING FREQUENCY _____ PRESERVATION _____
- ___ FLOW PROPORTIONED SAMPLE OBTAINED
- ___ AUTOMATIC SAMPLER USED
- ___ SAMPLE SPLIT WITH PERMITTEE
- ___ CHAIN OF CUSTODY EMPLOYED
- ___ SAMPLE OBTAINED FROM FACILITY SAMPLING DEVICE

SAMPLE REFRIGERATED DURING COMPOSITING: _____ Yes _____ No
SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE
COMMENTS:

GUIDE - VISUAL OBSERVATION - UNIT PROBLEMS

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 Prot.	S	
	Safety Features	S	
	Bypasses	-	
	Stormwater Overflows	-	
	Alternate Power Source	S	Generator can now operate entire plant
Preliminary	Maintenance of Collection Systems	S	
	Pump Station		
	Ventilation		
	XXXXXX Fine Screen	In	New
	Disposal of Screenings	S	Landfill
	Comminutor	-	
	Grit Chamber - aerated	In	New grit dewaterer online
Disposal of Grit	S		
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters		
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds		
	Vacuum Filter		
	Disposal of Sludge		
Other	Flow Meter and Recorder	In	
	Records	S	
	Lab Controls	S	
	Chemical Treatment	In	Alum in Actiflo
Secondary-Tertiary List items as required	Aerated Lagoons	In	3 cells, 24 mg each, lightly loaded
	Actiflo	In	Used for phosphorous removal
Disinfection	Effluent	S	Clear
	Disinfection System	In	
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	In	
	Dechlorination	S	