



Environmental
Protection Agency

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

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

July 14, 2011

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

Dear Mr. Frey:

On June 28, 2011, compliance inspections were conducted at the Ottawa County Danbury Township and Portage- Catawba Island WWTP's. Mr. Alan Jacoby, Superintendent 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:

Portage-Catawba Island- The NPDES permit renewal recently became effective in April. A five year compliance schedule was included to eliminate periodic overflows at the main lift station. Annual status reports are required beginning April 2012. No events were reported in 2010, and only one event thus far this year, which may have been due to a faulty float sensor.

The decanting arm on the SBR's were adjusted to just above the water line which allows it to begin the cycle earlier and increases decanting time by an extra 10 minutes. Mr. Jacoby believes this will enhance treatment capacity an additional 0.250 mgd. The entire chlorination system was replaced in April.

NPDES permit discharge monitoring reports are being received and indicate full compliance since June 2010, our last inspection. Both operation and maintenance are very good at this facility, and a clear final effluent was observed being discharged from the plant.

Danbury Township – The lagoon system is lightly loaded and continues to be very well operated and maintained. The entire chlorination system was also replaced at this facility. Some minor NPDES violations were reported since our last inspection, and are enclosed for your review. The pH violations were attributed to a malfunctioning alum dosage pump, and suspended solids/phosphorus violations resulted from a failed trial with an alum/polymer blend.

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Low level mercury limits are being met on a consistent basis. Plans are being made to clean the Actiflo sludge lagoon this Fall. A clear and stable final effluent was observed being discharged.

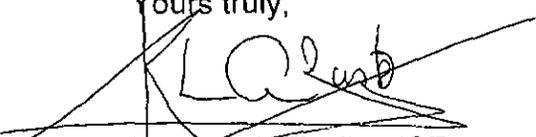
Mr. Doug Perkins, I/I Coordinator, continues to focus his efforts in the Danbury collection system. A major source of I/I was discovered at risers, many which were found separated at the joint through repeated freeze/ thaw cycles. A pilot repair program is scheduled, and although repairs are basic, utilizing set screws, they will be manpower intensive. The county cost sharing program with private MHPs is proving popular as three entire MHP collection systems were replaced in 2010 and ten additional projects are scheduled in 2011. Two collection system overflow events were reported since last year's inspection.

Last year we agreed to a proposal by Mr. Jacoby to bypass the grit removal system for the winter months. He reported that no adverse effects were noted and an estimated \$2,500/ month was saved on the cost of heating the screening building. We had recommended an evaluation be submitted for us to review and provide a long term recommendation. Please submit a brief summation and we will provide a written response.

Lab personnel received all "acceptable" results in the 2010 USEPA, DMRQA # 30 laboratory quality assurance sampling program. This is the highest rating available. A general lab criteria was also completed and should be used for internal QA/QC guidance.

We appreciate Mr. Jacoby and his staff's efforts in operating both plants at a very high level. Please find enclosed our inspection reports. If there are any errors, or you have any questions, please 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

Enclosure

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

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	<u>X</u>	___	___	
(b) CORRECT NAME AND LOCATION OF RECEIVING WATERS	<u>X</u>	___	___	
(c) PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION (INDUSTRIES)	___	___	<u>X</u>	
(d) FLOWS AND LOADINGS CONFORM WITH NPDES PERMIT PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(e) TREAT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	
(f) NEW TREATMENT PROCESS(ES) ADDED SINCE LAST INSPECTION	___	<u>X</u>	___	
(g) NOTIFICATION GIVEN TO STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES	___	___	<u>X</u>	
(h) ALL DISCHARGES ARE PERMITTED	<u>X</u>	___	___	
(I) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT	<u>X</u>	___	___	

COMMENTS/STATUS:

Section F: Compliance Schedules/Violations

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

COMMENTS/STATUS:

In compliance with low level mercury schedule of compliance

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 ___ ON MORS ___ 800 NO.	___	___	<u>x</u>	___
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	___	<u>x</u>	___	___

COLLECTION SYSTEM: N/A

	Yes	No	N/A	N/E
(a) PERCENT COMBINED SYSTEM <u>0</u> %				
(b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO <u>x</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>	___	___
(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:

- 2 SSO events
- 3 MHP collection systems replaced in 2010, 10 scheduled for 2011
- C ½ system replaced
- Grit removal system winter shutdown had no adverse effect on operations. Saved \$2500/month

Section H: Sludge Management

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

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

COMMENTS/STATUS:

N/A Lagoon system
Will be cleaning Act. Flow sludge pond

Section I: Self-Monitoring Program

Part 1. Flow measurement

	Yes	No	N/A	N/E
(a) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED & MAINTAINED 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>6/11</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 O&G, Metals, Nitrates				
(2) LAB NAME: <u>Jones & Henry Labs</u>				
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 2010 _____ <u>X</u> SATISFACTORY ___ MARGINAL UNSATISFACTORY				

COMMENTS/STATUS:
DMRQA #30

Section J: Effluent/Receiving Water Observations

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

GUIDE - VISUAL OBSERVATION - UNIT PROC

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	Diesel Generator
Preliminary	Maintenance of Collection Systems	M	I/I issues
	Pump Station	IN	
	Ventilation	S	
	Bar Screen	S	
	Disposal of Screenings	S	
	Comminutor	-	
	Grit Chamber	IN	Shut down during winter months
	Disposal of Grit	S	Landfill
	Fine screens	IN	
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 and Polymer for Actiflo
Secondary-Tertiary Last items as required	3 cell aerated lagoons	IN	In series, 24 mg each lightly loaded
	Actiflo	IN	For phosphorus removal, 2 mg
Disinfection	Effluent	S	Clear
	Disinfection System	IN	New Cl ₂ system in April
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	IN	
	Dechlorination	IN	Sodium bisulfate

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
Zr-G00053*GD	July 2010	001	00530	Total Suspended Solids	30D Conc	40	42.75	7/1/2010
2PG00053*GD	July 2010	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.025	7/1/2010
2PG00053*GD	July 2010	001	00530	Total Suspended Solids	7D Conc	56	103.	7/22/2010
2PG00053*GD	July 2010	001	00665	Phosphorus, Total (P)	7D Conc	1.5	2.	7/22/2010
2PG00053*GD	January 2011	001	61942	pH, Minimum	1D Conc	6.5	6.47	1/11/2011
2PG00053*GD	January 2011	001	61942	pH, Minimum	1D Conc	6.5	6.38	1/17/2011
2PG00053*GD	January 2011	001	61942	pH, Minimum	1D Conc	6.5	6.39	1/25/2011