



**Environmental  
Protection Agency**

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



\*1PK0000320080110\*

GREENE

BEAVERCREEK WRRF

WARE, RONALD

2008/01/10



State of Ohio Environmental Protection Agency

**Southwest District Office**

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

January 10, 2008

Ron Volkerding, Deputy Director  
Greene County Sanitary Engineering Department  
667 Dayton - Xenia Road  
Xenia, Ohio 45385

**Re: Beavercreek WRRF, NPDES Permit No. 1PK00003\*KD / OH0025381  
Compliance Evaluation Inspection**

Dear Mr. Volkerding:

<sup>Thursday</sup>  
On ~~Wednesday~~, December 13, 2007, Ron Ware of this office conducted a Compliance Evaluation Inspection at the above referenced facility. Greene County was represented by you and Barry Stroop, Operations Supervisor, during the inspection. The purpose of the inspection was to evaluate several aspects of plant operation and performance. A copy of the inspection report is enclosed. As indicated in the report, all areas evaluated during the inspection were rated as satisfactory. No response or corrective action is required at this time.

If you have any questions regarding this report, please contact Mr. Ware at (937) 285 - 6098.

Sincerely,

Martyn Burt

Compliance and Enforcement Supervisor

MB/ca





State of Ohio Environmental Protection Agency  
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PK00003*KD	OH0025381	12/13/2007	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Greene Co - Beavercreek WRRF 420 Factory Road Beavercreek, Ohio, Greene County	1:10 PM	5/1/2003
	Exit Time	Permit Expiration Date
	2:45 PM	1/31/2008
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Ron Volkerding, Deputy Director Barry Stroop, Operations Supervisor	(937) 562 - 7450 (937) 562 - 7167	
Name, Address and Title of Responsible Official	Phone Number	
Ron Volkerding, Deputy Director Greene County Sanitary Engineering Department 667 Dayton - Xenia Road Xenia, Ohio 45385	(937) 562 - 7450	

Section C: Areas Evaluated During Inspection				
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)				
S	Permit	S	Flow Measurement	Pretreatment
S	Records/Reports	S	Laboratory	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S Self-Monitoring Program
	Facility Site Review	S	Sludge Storage/Disposal	Other
	Collection System			

Section D: Summary of Findings (Attach additional sheets if necessary)	
Refer to attached report and cover letter.	
Inspector	Reviewer
<i>Ron Ware</i> 1/10/08	<i>Martyn Burt</i> 1/10/08
Ron Ware Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office



Permit # : 1PK00003\*KD  
NPDES #: OH00253

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..... Y
- (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:

(f) Construction of modifications to implement a BNR (Biological Nutrient Removal) process at the Beaver Creek WRRF was started in 2006. This construction is scheduled to be completed in May 2008. Alum is being added to the treatment process for phosphorus removal in the interim.

**Section F: Compliance Schedules/Violations**

- (a) Any significant violations over the past year ..... 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 list of violations over the past year is attached.



**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) Operator holds unexpired license of class required by permit..... N  
Class: IV
- (f) Routine and preventative maintenance schedule/performed  
on time..... Y
- (g) Any major equipment breakdown since last inspection..... N
- (h) Operation and maintenance manual provided and maintained..... Y
- (i) Any plant bypasses since last inspection..... N
- (j) Regulatory agency notified of bypasses..... N/A  
On MORs  and/or Spill Hotline (1-800-282-9378)
- (k) Any hydraulic and/or organic overloads since last inspection..... Y

**Collection System:**

- (a) Percent combined system: 0%
- (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..... 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..... N

**Comments/Status:**

**Treatment Works:**

(d) Bob Baird, Manager of Greene County's Wastewater Treatment Division, has a Class III operator certification, but has been approved to take part 2 of the class IV certification process. He is currently on extended sick leave and is expected to return to work in February, 2008.  
(k) The facility was unable to pump to full capacity on January 15, 2007 due to construction activity. Influent flows were high due to heavy rains. Three manholes on the plant site overflowed. These manholes are not normally problematic.



**Section H: Sludge Management**

- (a) Sludge management plan (SMP)  
Submitted date: 8/30/2001 Approval #: 05 - 420 Not submitted  N/A
- (b) Sludge management plan current..... Y  
(c) Sludge adequately disposed..... Y  
(Method: land application at agronomic rates)  
(d) If sludge is incinerated, where is ash disposed of N/A  
(e) Is sludge disposal contracted..... Y  
(Name: BioSource)  
(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:**

(j) There were odor complaints in March and April of 2007. Stockpiled sludge was located too close to neighboring homes.

(k) All processing of waste sludge from the Beaver creek WRRF is performed at the Sugar creek WWRF.

**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: April 2007)  
(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:**



**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: Low level mercury, aldrin, barium, cyanide, strontium

Lab name: Ginosko Laboratories (low level mercury)  
Test America (aldrin, barium, cyanide, strontium)

*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

**Comments/Status:**



**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	None	

**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:**



Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	5.7	6.43333	1/15/2007
January 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	183	252.201	1/15/2007
September 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.6	1.94333	9/22/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.1	2.37467	10/1/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	35.4	38.1959	10/1/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.6	5.95667	10/8/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	51.5	93.8889	10/8/2007
October 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.6	2.144	10/15/2007
October 2007	001	00665	Phosphorus, Total (P)	30D Conc	1.0	1.0325	10/1/2007
October 2007	001	50092	Mercury, Total (Low Le	30D Conc	17	37.9	10/1/2007
October 2007	001	50092	Mercury, Total (Low Le	30D Qty	0.0005	.00059	10/1/2007

