



**Environmental
Protection Agency**

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



1PK0001420080215

GREENE

SUGARCREEK WRF

WARE, RONALD

2008/02/15



State of Ohio Environmental Protection Agency

Southwest District Office

401 E. Fifth St.
Dayton, Ohio 45402

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

January 17, 2008

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

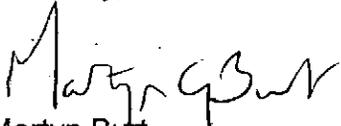
**Re: Sugarcreek WRRF, NPDES Permit No. 1PK00014*ND / OH0040592
Compliance Evaluation Inspection**

Dear Mr. Volkerding:

On Thursday, December 20, 2007, Ron Ware of this office conducted a Compliance Evaluation Inspection at the above referenced facility. Greene County was represented by you and Larry Goble, 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





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
1PK00014*MD	OH0040592	12/20/2007	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Greene County - Sugarcreek WRRF 2365 State Route 725 Spring Valley, Ohio, Greene County	10:25 AM	2/1/2006
	Exit Time	Permit Expiration Date
	11:36 AM	4/30/2008
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Ron Volkerding, Deputy Director Larry Goble, Operations Supervisor	(937) 562 - 7450 (937) 862 - 7311	
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	S	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
Ron Ware Date 1/17/08	Martyn Burt Date 1/17/08
Ron Ware Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office



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Permit # : 1PK00014*MD
NPDES # : OH0040592

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..... N
- (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:

(d) Flows to the Sugarcreek WRRF have been averaging around 8 MGD over the past three years.

(f) Construction of modifications and new treatment units to implement a BNR (Biological Nutrient Removal) process at the Sugarcreek WRRF was started in January 2007. This construction is scheduled to be completed in May 2009. Alum will be added to the treatment process (prior to the secondary clarifiers) 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
- (e) NPDES permit
- (f) Permittee is meeting compliance schedule..... Y

Comments/Status:

(a) A list of violations over the past year is attached. The reported cause of these violations (which occurred during June of 2007) was the lack of secondary clarifier capacity. One of the two secondary clarifiers had to be taken off-line to repair a faulty influent valve. The length of the repair work was extensive due to the depth and placement of the valve.



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..... Y
Class: III
- (f) Routine and preventative maintenance schedule/performed on time..... Y
- (g) Any major equipment breakdown since last inspection..... Y
- (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 over the past year 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 N
- (k) Are any portions of the sewer system at or near capacity..... N/E

Comments/Status:

Treatment Works:
 (k): Flows in excess of the rated peak capacity of 23 MGD were reported on 1/13/07, 1/14/07, 1/15/07, and 3/2/07.

Collection System:
 (c): A manhole overflow event occurred at the Pretreatment & Pumping Facility on 3/3/07.



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: Comb's Bio-Source)
(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:

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, sludge parameters

Lab name: Ginosko Laboratories (low level mercury)
Belmont Labs (aldrin, barium, strontium)
Test America (barium, cyanide, strontium)
Hoosier Microbiological Laboratory (sludge)

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
1PK00014001	-	-	-	-	-	-	-

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:



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Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
1PK00014*MD	June 2007	001	00530	Total Suspended Solids	30D Conc	20	20.25	6/1/2007
1PK00014*MD	June 2007	001	00530	Total Suspended Solids	30D Qty	371	430.976	6/1/2007
1PK00014*MD	June 2007	001	00530	Total Suspended Solids	7D Conc	30	71.	6/15/2007
1PK00014*MD	June 2007	001	00530	Total Suspended Solids	7D Qty	556	1490.73	6/15/2007
1PK00014*MD	June 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	111	115.242	6/15/2007



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April 21, 2009 (10:00-11:45)
Sugar Creek WRRF CEI

Present during inspection {
Shawn Hollon - Wastewater Manager (Class III)
Larry Goble - Plant Supervisor (Class III)
Jim Fox - Deputy Director (Class IV)
Barry Stroop - Plant Supervisor (Beaver Creek, Cedarville, Clifton)
Ron Volkerding - Deputy Director, Eng.

Operator Information:
- Sugar Creek's operator of record:
Larry Goble and Shawn Hollon

Operator licenses posted in Larry's office
Log book now being used (large, permanently bound book)

New 42-inch force main came on line yesterday (April 20th); old 36" force main will probably be used as a back-up,

Flow has been averaging 5.0-6.0 MGD (today flow is 7.7 MGD, up due to recent rainfall); they think that the flow has dropped perhaps up to 1.0 mgd as a result of elimination of the old pretreatment bldg. (apparently had some groundwater infiltration)

As of March 2009, ^{all} solids are being processed at Sugar Creek (no longer being hauled to Beaver Creek). Final disposal - land filled.

Flow measurement (influent - new radar system
effluent - ultrasonic w/ weir)

TREATMENT

1° - Screens → Grit vortex → Raptor (rotating drum) - separates grit and scum

2° - 2 existing Scribber units were upgraded; added a 3rd Scribber
- one of the units is kept as anoxic for BNR

- using ORP
- 1 new clarifier, two existing; one existing and new one on-line
- 18 feet deep
- MLSS - right now in the low 3000's
- goal is to get down to around 2000 to get BNR - shooting for May
- Alum feed ready to go if needed

- Sludge processing - two centrifuges - both running today w/ polymer addition

