OhioEPA
State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Rd.
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.ohio.gov

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

Re: Fulton County
Village of Archbold
NPDES Permit

February 2, 2010

Mr. Frank D'Ambrosia
Superintendent
Village of Archbold
P.O. Box 406
Archbold, Ohio 43502

Dear Mr. D'Ambrosia:

On January 20, 2010, I conducted a compliance evaluation inspection of the Archbold Wastewater Treatment Plant. You were present and provided information concerning the operation and maintenance of the treatment facilities.

At the time of inspection, most of the wastewater treatment units were in service. The discharge to Brush Creek was clear and colorless with no noticeable odor.

A review of the Discharge Monitoring Reports (DMR) from July 1, 2009, to January 1, 2010, shows that there have been several permit limit violations at the facility. The specific instances of noncompliance are attached on a separate sheet.

The completed compliance inspection report is enclosed. If there are any questions please contact me at (419) 373-3053

Sincerely,

Ryan Gierhart

Ryan Gierhart
Division of Surface Water

/lb

Enclosure

Pc w/enclosures: Mayor and Council
NWDO - DSW File

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PD00017*JD	December 2009	002	00300	Dissolved Oxygen	1D Conc	5.3	4.5	12/9/2009
2PD00017*JD	December 2009	002	00300	Dissolved Oxygen	1D Conc	5.3	4.2	12/3/2009
2PD00017*JD	July 2009	002	00665	Phosphorus, Total (P)	7D Conc	1.5	2.62	7/1/2009
2PD00017*JD	July 2009	002	00665	Phosphorus, Total (P)	30D Conc	1.0	1.27167	7/1/2009
2PD00017*JD	July 2009	002	00610	Nitrogen, Ammonia (NH3	7D Conc	2.1	3.01	7/1/2009

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NPDES Compliance Inspection Report

Section A: National Data System Coding

Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
2PD00017	OH0020796	1/20/2010	C	S	1

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Village of Archbold WWTP 515 Short Buehrer Archbold, OH 43502	1:00 pm	March 1, 2009
	Exit Time	**Permit Expiration Date**
	3:00 pm	July 31, 2013
Name(s) and Title(s) of On-Site Representatives	**Phone Number(s)**	
Mr. Frank D'Ambrosia – WWTP Superintendent	(419) 445 – 6401	
Name, Address and Title of Responsible Official	**Phone Number**	
Mayor and Council Village of Archbold P.O. Box 406 Archbold, OH 43502		

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	S	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	S	Sludge Storage/Disposal	N	Other
N	Collection System				

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

Inspector	Reviewer
Ryan Gierhart 2-1-10	Elizabeth A. Wick 1/27/10
Ryan Gierhart — Date	Elizabeth A. Wick, P.E. — Date
Environmental Specialist II	Water Quality Engineer
Division of Surface Water	Division of Surface Water
Northwest District Office	Northwest District Office

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:

Two new sludge storage lagoons have been installed.

Section F: Compliance Schedules/Violations

(a) Any significant violations since the last inspection.....	N
(b) Permittee is taking actions to resolve violations.....	N/A
(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..... Class: III	Y
(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.....	N
(k)	Any plant bypasses since last inspection.....	N/A
(l)	Regulatory agency notified of bypasses..... On MORs ☐ and/or Spill Hotline (1-800-282-9378) ☐	N/A
(m)	Any hydraulic and/or organic overloads since last inspection.....	N

Record Keeping:

(a)	Log book provided.....	Y
(b)	Format of log book (i.e. computer log, hard bound book) Hardbound book.	
(c)	Log book(s) kept onsite (in an area protected from weather).....	Y
(d)	Log book contains the following:	
	I. Identification of treatment works.....	Y
	II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7.....	Y
	III. Daily record of operation and maintenance activities (including preventative maintenance, repairs and request for repairs).....	Y
	IV. Laboratory results (unless documented on bench sheets)...	Y
	V. Identification of person making log entries.....	Y
(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: 0%	
(b)	Any collection system overflows since last inspection..... (CSO ☐ and/or SSO ☐)	N
(c)	Regulatory agency notified of overflows (SSOs).....	N/A
(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.....	Y
(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.....	N
(j)	Any complaints received since last inspection of basement flooding	N
(k)	Are any portions of the sewer system at or near capacity.....	N

Comments/Status:

Portable generators to run influent pumps.

Section H: Sludge Management

(a) Sludge management plan (SMP)
Submitted date: Approval #: Not submitted ☐ N/A ☒

(b) Sludge management plan current..... N/A
(c) Sludge adequately disposed..... Y
(Method: Land application)
(d) If sludge is incinerated, where is ash disposed of
(e) Is sludge disposal contracted..... Y
(Name: Stuckey Brothers)
(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: 08/09)
(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: Metals, priority pollutants, toxicity
Lab name: Alloway (PP&Tox), J&H (Metals)

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:

Comments/Status:

Went over SOPs for CBOD during the inspection.

Section J: Effluent/Receiving Water Observations

Outfall Number	Oil sheen	Grease	Turbidity	Visible Foam	Visible Floating Solids	Color	Odor
002	None	None	None	Very light	None	None	None

Comments/Status:

Discharge was clear, colorless, and had no noticeable odor.

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:

Form Approved
OMB No. 158-R0035

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

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	Air gap.
	Safety Features	S	Fencing and rails.
	Bypasses	NA	
	Stormwater Overflows	NE	
	Alternate Power Source	S	Dual feed. Generator for main lift pump from wet well
Preliminary	Maintenance of Collection Systems	NE	
	Pump Station	NA	No main pump at WWTP.
	Ventilation	NA	
	Bar Screen	IN	Fine screen. On timer. Also turn on as flows increase.
	Disposal of Screenings	S	Landfill.
	Grit Chamber	IN	Aerated. Grey-green color. Lime added as needed.
	Disposal of Grit	S	Landfill.
	Grease Removal Tank	IN	Used when needed. Grease hauled offsite.
	Pumps	IN	One on, three standby.
Primary	Settling Tanks	IN	Four tanks. Green – grey color. Some floating scum.
	Scum Removal	IN	
	Sludge Removal	IN	
	Effluent	S	Turbid.
Sludge Disposal	Digesters	IN	Two primary digesters
	Temperature and pH	NE	
	Gas Production	IN	Sent to waste burner.
	Heating Equipment	NE	Mixing – two feed pumps
	Sludge Pumps	IN	2 Recirculating, 2 mixing, 2 feed, two WAS, 3 RAS, and 1 lagoon.
	Storage Lagoons	IN	Five lagoons. Supernatant sent to plant. 2.0 MGD total capacity.
	Gravity Belt Thickener	IN	On standby. Used when making sludge as needed.
	Disposal of Sludge	S	Land application.
	Holding Tank/Thickener	IN	On standby. Used as needed.
Other	Flow Meter and Recorder	IN	Parshall flume and ultrasonic
	Records	NE	
	Lab Controls	NE	
	Chemical Treatment	S	Lime, ferrous chloride, and polymer.
Secondary-Tertiary List items as	Contact Stabilization Tanks	IN	7 tanks. Aerated by fine bubbles. Brown color with white foam.
	Final Settling	IN	Two tanks. Clear effluent.
	Retention Basin	IN	Used as needed. .
	Blowers	IN	One in service, three on standby.
Disinfection	Effluent	S	Clear, colorless, no odor.
	Disinfection System	Out	Chlorine gas.
	Effective Dosage	NE	30 pounds per day.
	Contact Time	NE	
	Contact Tank	IN	Serpentine tank
	Dechlorination	Out	Sodium bisulfite
	Post Aeration	IN	Step aeration at final outfall and post aeration in disinfection contact tank.