



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.state.oh.us

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

Re: Richland County
Village of Lexington
NPDES Permit

April 30, 2009

Mr. Randy Pore, Administrator
Village of Lexington
44 West Main Street
Lexington, Ohio 44904

Dear Mr. Pore:

On April 16, 2009, an inspection was conducted of the wastewater treatment facilities serving the Village of Lexington located at 205 South Mill Street. Mr. Craig Roberts, the plant superintendent, was present to provide a tour of the facilities and answer questions.

The construction of the new wastewater treatment plant (WWTP) is progressing on schedule. Mr. Roberts is hoping that the new plant will be operational by October 1, 2009. During the inspection we discussed the need to keep a log book of activities at the WWTP. This log should include a daily record of operation and maintenance activities. We also discussed some minor changes that need to be made to the laboratory bench sheets. The balances in the lab should be calibrated by the manufacturer.

A review of the discharge monitoring reports submitted to our office for the months of January through March 2009, revealed numerous **violations** of the limits contained in your NPDES permit. All of the violations were for exceeding the CBOD and dissolved oxygen limits. The plant is currently operating with only one treatment lagoon. The other lagoon is offline due to the construction. This could be contributing to the violations. Mr. Roberts is hoping to be able to use the new post aeration tank in the next few weeks. This should help eliminate the dissolved oxygen violations. A printout of these violations has been included for your review.

Our completed inspection report is enclosed for your review. If you have any questions please call me at 419-373-3070.

Sincerely,

Walter Ariss
Environmental Specialist II
Division of Surface Water

/llr

Enclosure

pc: C:\DSW-NWDO.File...
Craig Roberts, Village of Lexington



State of Ohio Environmental Protection Agency
Northwest District Office

NPDES Compliance Inspection Report

| Section A: National Data System Coding | | | | | |
|--|-----------|----------------|-----------------|-----------|---------------|
| Permit # | NPDES# | Month/Day/Year | Inspection Type | Inspector | Facility Type |
| 2PB00019 | OH0020257 | 04/16/2009 | C | S | 1 |

| Section B: Facility Data | | |
|---|------------|------------------------|
| Name and Location of Facility Inspected | Entry Time | Permit Effective Date |
| Village of Lexington WWTP 205 South Mill Street Lexington, OH 44904 | 10:30 AM | 5/1/2008 |
| | Exit Time | Permit Expiration Date |
| | 12:30 PM | 4/30/2010 |
| Name(s) and Title(s) of On-Site Representatives | | Phone Number(s) |
| Craig Roberts - Superintendent | | 419-884-2630 |
| Name, Address and Title of Responsible Official | | Phone Number |
| Randy Pore - Village Administrator | | 419-884-0765 |

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

| Section D: Summary of Findings (Attach additional sheets if necessary) | | | |
|---|---------|---|---------|
| | | | |
| Inspector | | Reviewer | |
| | 4/16/09 | | 4/28/09 |
| Walter Ariss Environmental Specialist II Division of Surface Water Northwest District Office | Date | Elizabeth A. Wick, P.E. Water Quality Engineer Division of Surface Water Northwest District Office | Date |

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. New treatment plant under construction. New UV system should be ready in the next week.

Section F: Compliance Schedules/Violations

- (a) Any significant violations since the last inspection..... Y
- (b) Permittee is taking actions to resolve violations..... Y
- (c) Permittee has a compliance schedule..... Y
- (d) Compliance schedule contained in
- (e) Permittee is meeting compliance schedule..... Y

Comments/Status:

Next milestone in compliance schedule is to obtain operational level of the new plant by January 1, 2010.

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)..... I
- (e) Operator of Record holds unexpired license of class required by permit..... Y
 Class: II
- (f) Copy of certificate of Operator of Record displayed on-site..... N
- (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..... Y
- (k) Any plant bypasses since last inspection..... N
- (l) Regulatory agency notified of bypasses..... N/A
 On MORs and/or Spill Hotline (1-800-282-9378)
- (m) Any hydraulic and/or organic overloads since last inspection..... Y

Record Keeping:

- (a) Log book provided..... Y
- (b) Format of log book (i.e. computer log, hard bound book)

Employee time cards kept at Village Hall.
- (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)..... N
 - IV. Laboratory results (unless documented on bench sheets)... Y
 - V. Identification of person making log entries..... N
- (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 (cont)

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 N
- (k) Are any portions of the sewer system at or near capacity..... N

Comments/Status:

Treatment Works:
d) once upgrades are complete the treatment plant will be reclassified as Class III
e) Craig and Mike both have a Class II license.
f) Mike's is displayed. Craig will get his hung up.
g) staffed eight hours during week, three hours on weekends
i) one influent pump currently down. Will not be repaired, still have two pumps in station

Record Keeping:
b) A written log of daily activities at the WWTP once the new plant is finished, this
would be in addition to any information kept in a maintenance manual, etc.
d) Lab bench sheets need to include the name of the operator collecting samples and
performing analysis.

Collection System:
b) had a force main break to lagoons due to ground shifting during wet well
construction.
g) both headworks liftstation and Route 545 will have telemetry with plant upgrades
h) have a portable generator to run 545 station.

Section H: Sludge Management

- (a) Sludge management plan (SMP)
Submitted date: 4/15/2008 Approval #: 03-452-PW Not submitted N/A
- (b) Sludge management plan current..... Y
- (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:to be determined)
- (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:)
- (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:

a) current effluent meter is offline due to construction, influent pump run time is being used until new effluent meter is ready

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..... N
- (e) Commercial laboratory used..... Y
Parameters analyzed by commercial lab: Ammonia, O&G, Metals, Fecal

Lab name: Alloway

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:

Sampling:
a) upstream sample collected at S.R. 97 Bridge, Downstream collected at Kochheiser Road

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 | green | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Comments/Status:

visible green plume for approximetaly 10 yards downstream

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:

| Permit No. | Reporting Period | Station | Reporting Code | Parameter | Limit Type | Limit | Reported Value | Violation Date |
|-------------|------------------|---------|----------------|------------------|------------|-------|----------------|----------------|
| 2PB00019*ID | January 2009 | 001 | 80082 | CBOD 5 day | 30D Conc | 25 | 43.2857 | 1/1/2009 |
| 2PB00019*ID | January 2009 | 001 | 80082 | CBOD 5 day | 7D Conc | 40 | 44. | 1/15/2009 |
| 2PB00019*ID | January 2009 | 001 | 80082 | CBOD 5 day | 7D Conc | 40 | 47.5 | 1/22/2009 |
| 2PB00019*ID | January 2009 | 001 | 80082 | CBOD 5 day | 30D Qty | 64 | 79.9473 | 1/1/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.9 | 1/6/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.6 | 1/8/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.8 | 1/20/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.1 | 1/21/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.5 | 1/22/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.7 | 1/23/2009 |
| 2PB00019*ID | January 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.4 | 1/29/2009 |
| 2PB00019*ID | February 2009 | 001 | 80082 | CBOD 5 day | 30D Conc | 25 | 37.5 | 2/1/2009 |
| 2PB00019*ID | February 2009 | 001 | 80082 | CBOD 5 day | 7D Conc | 40 | 49.5 | 2/1/2009 |
| 2PB00019*ID | February 2009 | 001 | 80082 | CBOD 5 day | 30D Qty | 64 | 110.126 | 2/1/2009 |
| 2PB00019*ID | February 2009 | 001 | 80082 | CBOD 5 day | 7D Qty | 103 | 198.339 | 2/8/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.3 | 2/2/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.8 | 2/3/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.7 | 2/4/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.8 | 2/9/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.7 | 2/10/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.3 | 2/16/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.2 | 2/17/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.4 | 2/18/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.9 | 2/19/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.1 | 2/25/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.6 | 2/26/2009 |
| 2PB00019*ID | February 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.9 | 2/27/2009 |
| 2PB00019*ID | March 2009 | 001 | 80082 | CBOD 5 day | 30D Conc | 25 | 30.7777 | 3/1/2009 |
| 2PB00019*ID | March 2009 | 001 | 80082 | CBOD 5 day | 30D Qty | 64 | 82.9571 | 3/1/2009 |
| 2PB00019*ID | March 2009 | 001 | 80082 | CBOD 5 day | 7D Qty | 103 | 130.730 | 3/8/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.6 | 3/9/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.7 | 3/10/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.2 | 3/11/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.6 | 3/12/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.7 | 3/13/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.9 | 3/16/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.2 | 3/17/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.8 | 3/18/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.6 | 3/19/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.6 | 3/20/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.2 | 3/23/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.4 | 3/24/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.6 | 3/25/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2. | 3/26/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.4 | 3/27/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 2.7 | 3/30/2009 |
| 2PB00019*ID | March 2009 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 1.7 | 3/31/2009 |