



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
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: Williams County
Lakeland Woods Subdivision
Notice of Violation

January 30, 2008

Mr. Dennis M. Bell, P.E., P.S., Williams County Engineer
Williams County Engineer's Department
12953 County Road G
Bryan, OH 43506

Dear Mr. Bell:

On January 8th and 10th, 2008, an inspection was made of the wastewater treatment plant that serves the Lakeland Woods Subdivision. Mr. Will Allomong was present on January 10th, 2008.

On January 8th, 2008, the following violations were observed:

1. The contents of the southeast sand bed were being pumped directly to the contact tank. The contents of the northeast sand bed were leaking through a crack in the sand bed wall.
2. There were signs of a recent overflow from the sand filter dosing station. Sewage sludge was observed on the banks of the ditch on the east side of the plant.
3. Flow was being directed to the clean southwest sand bed.

The following observations were noted on January 10th, 2008:

1. In addition to the same sand beds still being ponded and clogged, the southeast bed was leaking from its side wall. Large solids were observed in the beds that were clogged. The two beds on the west side of the plant were clean and weeded.
2. Sewage sludge was once again observed on the banks of the ditch from the sand filter dosing station.
3. Contents of the first aeration tank were very dilute. The sludge return was also light in color.
4. The skimmer appeared to be clogged.
5. The chlorination and dechlorination were out for the winter.

We recommend that the following actions be taken:

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1. The overflow from the sand filter dosing station is an unpermitted and prohibited discharge. **Any sewage overflows must be reported to our spill line at 1-800-282-9378 within 24 hours of observing the spill.** A 5-day follow-up report also needs to be submitted to our office. The report and information on sanitary sewer overflows (SSO) can be found on our website at the following link:

http://www.epa.state.oh.us/dsw/permits/technical_assistance.html#SSO

2. The sludge observed on the banks of the ditch should be *immediately* treated with lime and disposed of properly.
3. **The bypassing of any treatment unit within the system is a violation of your NPDES permit and can have criminal consequences.** It appeared that the wastewater in the two clogged sand beds could have been directed to the clean sand beds for proper treatment and then the clogged beds could have been cleaned properly. Proper maintenance will only insure that the plant runs as intended and efficiently.
4. The issues that were observed from these two inspections are due to excess storm water in the system. **A flow meter, or at the least, a pump run time meter, needs to be installed to evaluate the flow.**
5. We recommend that a thorough Inflow and Infiltration Study be conducted to determine where the excess flow is originating. The study should include the following:
 - a. Sanitary and storm sewer map study
 - b. System flow diagrams
 - c. Dry vs. wet weather flow determinations
 - d. Preliminary field survey and selective flow tests
 - e. Determination of excessive infiltration/inflow
 - f. Establish a plan of action, budget and timetable for execution

Please submit to us in writing, within 14 days, the actions being taken to address the issues listed above, along with the maintenance logs from the 2 weeks prior to the inspections.

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I have enclosed our completed inspection report and pictures taken at the time of both inspections. If you have any questions, please feel free to call Tanushree Courlas at 419-373-3053.

Yours truly,



Elizabeth Wick, P.E.
District Engineer, Unit Supervisor
Division of Surface Water

/lb

Enclosure

pc: Williams County Commissioners

DSW-NWDO File w/all enclosures

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PG00087

Facility Name Lakeland Woods Subdivision Expiration Date 12/31/11

Facility Address State Route 34 Date 01/10/08 Time 1400

City Bryan County Williams Township _____

Name and Address of Owner Williams County, 12953 CR G, Bryan, Ohio 43506

Person Contacted Will Allomong Owner Phone 419-636-2454

Flow: Design 30000 GPD Present _____ GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 40° cloudy

OEPA Personnel Tanushree Courlas District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear	X	None		Colorless
1	Mild	X				X	
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: not observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has _____ excellent _____ good X fair _____ poor operation
 b. Plant has _____ excellent _____ good _____ fair X poor maintenance
 c. Sand filters have _____ excellent _____ good _____ fair X poor maintenance

d. Not operating at expected efficiency due to:

- (1) X hydraulic overload
 (2) _____ organic/ solids overload
 (3) _____ personnel inefficiency
 (4) _____ equipment failure
 (5) _____ wastes
 (6) _____

		Disinfection: (Required May 1 thru Oct.31.)	
IN	OUT	_____	_____
_____	<u>X</u>	Chlorination Tablets	
_____	<u>X</u>	Dechlorination Tablets	
_____	_____	U.V.	

4. X No Compliance with NPDES Permit

Periodic Violations X Y N Parameters: TSS, Ammonia

Chronic Violations _____

5. X Adequate plant safety

6. X Operation and Maintenance Service Name Will Allomong

Frequency of Visits 1/week

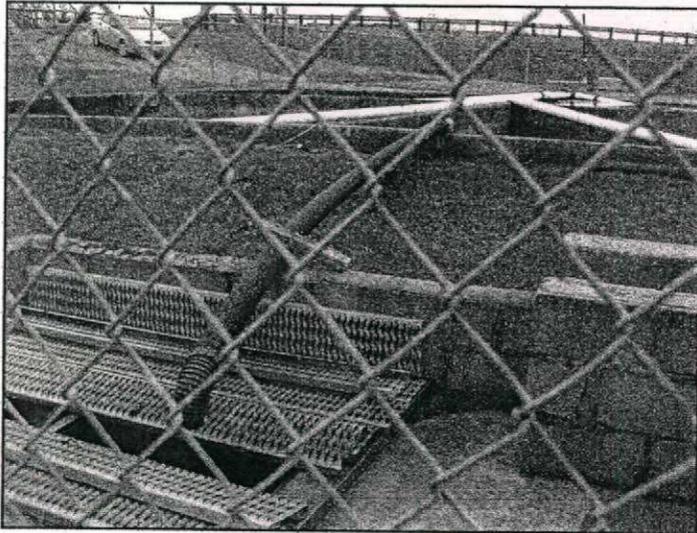
Facility Name: **Lakeland Woods Subdivision**

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	Flow Splitter
Aeration Equipment	3	Plant Timer ___Y___ N Motor/ Blower Unit	Cycle Time: Running: Yes
Secondary Treatment	2	Aeration Tank	Color : very light color and solids Adequate Aeration: Y ___ N ___
Final Settling	2	Clarifier	
	3	Sludge Return	In ___X___ Out ___ light color
	2	Surface Skimmer	In ___X___ Out ___ needs to be unclogged
		Fixed Media Clarifier	
Tertiary Treatment	4	Surface Sand Filter	2 east beds were ponded, 2 west beds were clean, should pump ponded ones to clean ones, floating solids observed.
		Polishing Pond	
		Other	
Disinfection	1	Chlorine Tube Feeder	Out for winter
	1	Dechlorination Tube Feeder	Out for winter
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	1	Sand Filter Effluent Dosing	no timer, recently overflowed, sludge on ground should be cleaned with lime
Sludge Handling	1	Aerated Storage Tank	not aerated, sludge holding tank.
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PG00087*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc.	2.0	8.615	5/1/2007
2PG00087*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc.	3.0	3.83	5/1/2007
2PG00087*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Qty.	0.2	.97823	5/1/2007
2PG00087*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty.	0.34	.4349	5/1/2007
2PG00087*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc.	3.0	13.4	5/15/2007
2PG00087*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty.	0.34	1.52157	5/15/2007
2PG00087*ED	August 2007	001	00530	Total Suspended Solids	30D Conc.	12	16.75	8/1/2007
2PG00087*ED	August 2007	001	00530	Total Suspended Solids	7D Conc.	18	55	8/1/2007
2PG00087*ED	August 2007	001	00530	Total Suspended Solids	30D Qty.	1.4	1.90196	8/1/2007
2PG00087*ED	August 2007	001	00530	Total Suspended Solids	7D Qty.	2.0	6.24525	8/1/2007

Lakeland Woods Subdivision Wastewater Treatment Plant
January 8th and 10th, 2008



**Bypassing of sand filter
(southeast) to contact tank.**

January 8, 2008
Lakeland Woods Subdivision
Williams County
SR 34

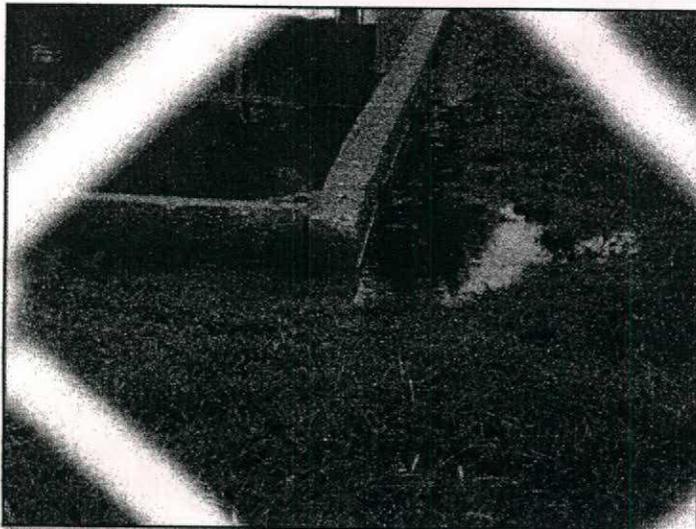
Taken by Tanushree Courlas
Ohio EPA



**View of pump in sand bed
(southeast).**

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Lakeland Woods Subdivision
Williams County
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Taken by Tanushree Courlas
Ohio EPA

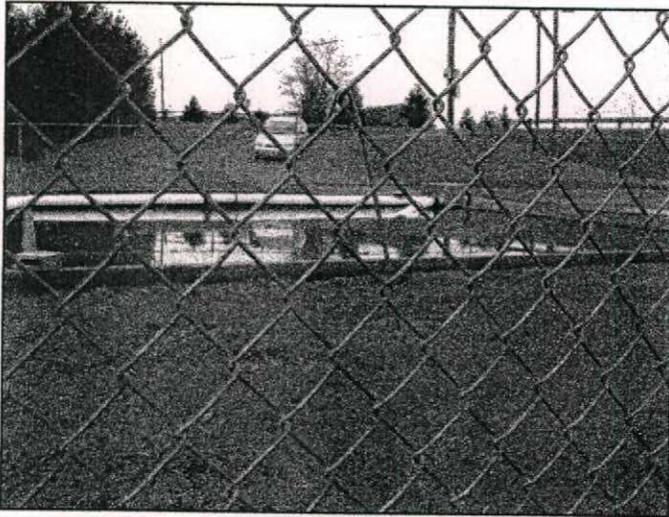


**Wastewater leaking from sand
bed (northeast).**

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Williams County
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Taken by Tanushree Courlas
Ohio EPA

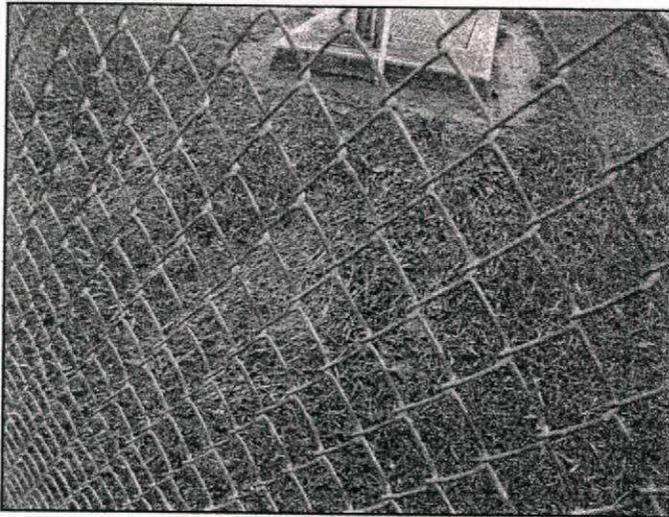
Lakeland Woods Subdivision Wastewater Treatment Plant
January 8th and 10th, 2008



**View of clogged sand bed
(northeast).**

January 8, 2008
Lakeland Woods Subdivision
Williams County
SR 34

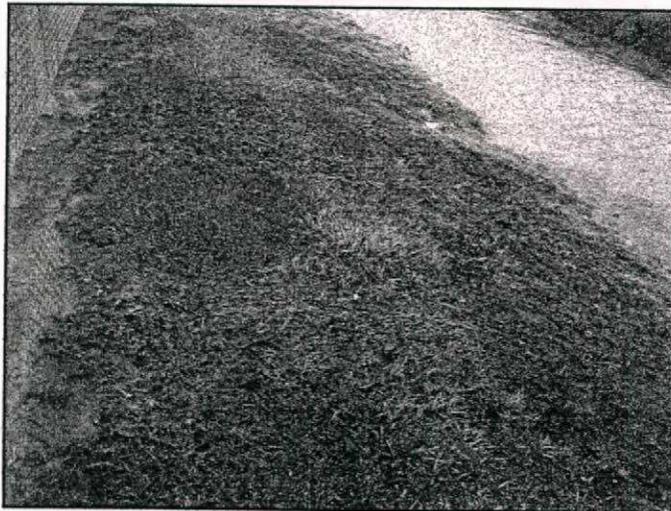
Taken by Tanushree Courlas
Ohio EPA



**Sewage sludge on ground from
dosing station overflow.**

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Taken by Tanushree Courlas
Ohio EPA

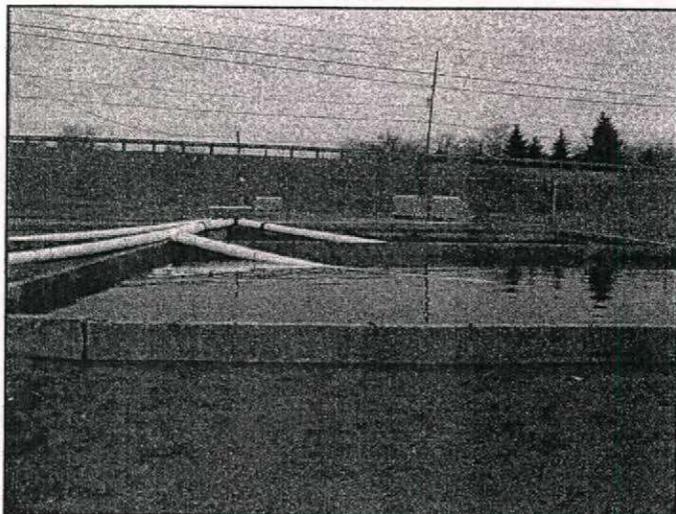


**Sewage sludge on the banks of
the ditch by the plant.**

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Williams County
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Taken by Tanushree Courlas
Ohio EPA

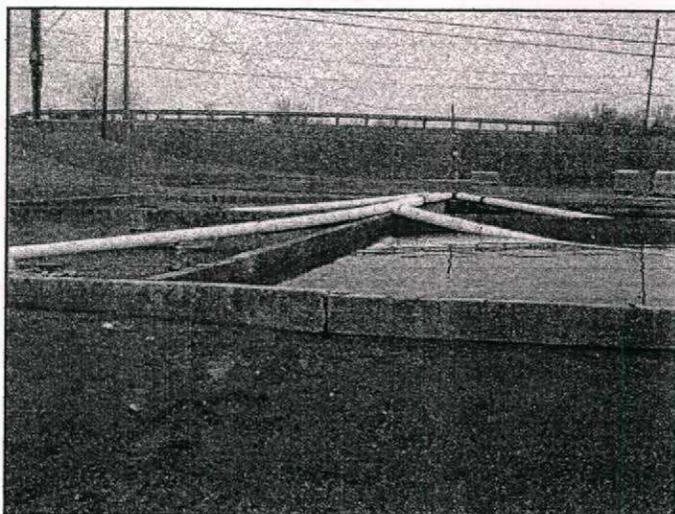
Lakeland Woods Subdivision Wastewater Treatment Plant
January 8th and 10th, 2008



Southeast sand filter ponded.

January 10, 2008
Lakeland Woods Subdivision
Williams County
SR 34

Taken by Tanushree Courlas
Ohio EPA



**View of leaking sand bed
(southeast).**

January 10, 2008
Lakeland Woods Subdivision
Williams County
SR 34

Taken by Tanushree Courlas
Ohio EPA