



Environmental  
Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

Re: Williams County  
Lakeland Woods Subdivision  
NPDES Permit

September 27, 2011

Williams County Commissioners  
One Courthouse Square  
Bryan, Ohio 43506

Dear Commissioners:

On September 14, 2011, an operation and maintenance inspection was made of the wastewater treatment plant serving Lakeland Woods Subdivision. The treatment facility is located along State Route 34 in Pulaski Township, Williams County. Mr. Steve Bowling was present and provided information regarding the operation of the treatment plant. This inspection was conducted as part of your National Pollutant Discharge Elimination System (NPDES) permit No. 2PG00087.

At the time of the inspection, both the "old" and "new" treatment facilities were in operation. The contents of the aeration tanks were brown, and all four sand filters were operational. The final discharge from the plant was visually clear. However, we did not collect effluent samples to determine the water quality of the discharge during our visit.

We noted that this plant receives excessive flow during rain events caused by stormwater infiltration/inflow (I/I) in the collection system. Therefore, we strongly recommend that the county start investigating the I/I problems throughout the entire collection system serving Lakeland Woods Subdivision. The findings and recommendations from smoke testing and video inspections should be incorporated into a comprehensive rehabilitation program with the goal of minimizing the I/I in the collection system. Elimination of large sources of clean water infiltration could help delay another costly treatment plant expansion.

Our review of your discharge monitoring reports (1/1/2010 to 9/1/2011) for this facility indicated numerous effluent violations. Please refer to the enclosed violation table. In order to avoid escalated enforcement action, steps must be taken to eliminate these violations as soon as possible. Within 30 days, please submit a written plan to our office outlining the steps you will take to return to compliance. The document should also contain timelines for completing the actions.



William County Commissioners  
September 27, 2011  
Page Two

Our completed inspection form is enclosed for your review. If you have any questions or comments feel free to call Jason Ko at (419) 373-3021.

Yours truly,



Elizabeth A. Wick, PE  
Environmental Engineer/Section Manager  
Division of Surface Water

CK/cs

Enclosures

pc: Willis Allomong, WW Operator  
;DSW, NWDO File ;



OHIO ENVIRONMENTAL PROTECTION AGENCY  
OPERATION AND MAINTENANCE INSPECTION

NPDES Permit No. 2PG00087

Facility Name: The Lakeland Woods Subdivision Expiration Date: December 31, 2011

Facility Address: State Route 34 Date: 9/14/2011 Time: 10:30 am

City: Bryan County: Williams Township: Pulaski

Name and Address of Owner: Williams County commissioners, Courthouse, Bryan, OH 43506

Person Contacted: Mr. Steve Bowling, Operator Phone: (419) 636-8739

Flow: Design: 30,000 GPD Present                      GPD

Trib. Pop. 60 homes (estimated) Weather at time of inspection: Temp Sunny & 70

OEPA Personnel: Jason Ko District: NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	X	Clear	X	None	X	Colorless
1	Mild						
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 X fair                      poor maintenance  
 c. Sand filters have                      excellent                      good X fair                      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.) – N/A  
 IN    OUT  
X                         Chlorination  
X                         Dechlorination  
                                             U.V

4. Yes                      No X Compliance with NPDES Permit    Periodic Violations                      Yes                      No                      Parameters                       
 5. Yes X No                      Adequate Plant Safety    Chronic Violation X                                           Various                       
 6. Yes X No                      Operation and Maintenance Service    Name: Williams County Sanitary Dept

Frequency of Visits: Daily



Facility Name: The Lakeland Woods

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 1/QTR
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	Flow splitter with 1/3 to OLD plant & 2/3 to NEW plant
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u>   </u> <u>N</u>	Cycle Time: 22 hrs "ON" & 2 hrs "OFF"
	3	Motor/ Blower Unit	
Secondary Treatment	3	Aeration Tank	Color: brown Adequate Aeration: Y <u>X</u> N <u>   </u>
Final Settling	2	Clarifier	With 3 hoppers
	3	Sludge Return	In <u>X</u> Out <u>   </u> Returning solids
	2	Surface Skimmer	In <u>X</u> Out <u>   </u> Returning clear
		Fixed Media Clarifier	
Tertiary Treatment	4	Surface Sand Filter	
		Polishing Pond	
		Other	
Disinfection	IN	Chlorine	
	IN	Dechlorination	
		Ultraviolet (UV)	
Flow Metering	IN	Elapsed Pump Time	At dosing tank
		Other	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	Installed hour meter
Sludge Handling	1	Aerated Storage Tank	Out
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
	Out	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	April 2010	001	00530	Total Suspended Solids	30D Qty	1.4	2.05052	4/1/2010
2PG00087*ED	April 2010	001	00530	Total Suspended Solids	7D Qty	2.0	4.70097	4/22/2010
2PG00087*ED	May 2010	001	00530	Total Suspended Solids	30D Qty	1.4	6.34871	5/1/2010
2PG00087*ED	May 2010	001	00530	Total Suspended Solids	7D Qty	2.0	4.45116	5/1/2010
2PG00087*ED	May 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.2	.70484	5/1/2010
2PG00087*ED	May 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.34	1.28342	5/1/2010
2PG00087*ED	May 2010	001	00400	pH	1D Conc	6.5	6.	5/4/2010
2PG00087*ED	May 2010	001	00530	Total Suspended Solids	7D Qty	2.0	9.33381	5/8/2010
2PG00087*ED	May 2010	001	00530	Total Suspended Solids	7D Qty	2.0	5.26115	5/22/2010
2PG00087*ED	May 2010	001	80082	CBOD 5 day	7D Qty	1.7	2.63058	5/22/2010
2PG00087*ED	June 2010	001	31616	Fecal Coliform	30D Conc	1000	10000.	6/1/2010
2PG00087*ED	June 2010	001	31616	Fecal Coliform	7D Conc	2000	10000.	6/1/2010
2PG00087*ED	August 2010	001	00530	Total Suspended Solids	7D Qty	2.0	2.62301	8/1/2010
2PG00087*ED	October 2010	001	31616	Fecal Coliform	30D Conc	1000	5600.	10/1/2010
2PG00087*ED	October 2010	001	31616	Fecal Coliform	7D Conc	2000	5600.	10/1/2010
2PG00087*ED	December 2010	001	00530	Total Suspended Solids	7D Qty	2.0	2.11203	12/22/2010
2PG00087*ED	February 2011	001	00530	Total Suspended Solids	30D Qty	1.4	1.67108	2/1/2011
2PG00087*ED	February 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	4.0	7.725	2/1/2011
2PG00087*ED	February 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	6.0	7.29	2/1/2011
2PG00087*ED	February 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.45	3.36063	2/1/2011
2PG00087*ED	February 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.68	2.42815	2/1/2011
2PG00087*ED	February 2011	001	80082	CBOD 5 day	30D Qty	1.1	1.72975	2/1/2011
2PG00087*ED	February 2011	001	80082	CBOD 5 day	7D Qty	1.7	2.33156	2/1/2011
2PG00087*ED	February 2011	001	80082	CBOD 5 day	7D Qty	1.7	2.48296	2/8/2011
2PG00087*ED	February 2011	001	00530	Total Suspended Solids	7D Qty	2.0	3.15669	2/15/2011
2PG00087*ED	February 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	6.0	8.16	2/15/2011
2PG00087*ED	February 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.68	4.2931	2/15/2011
2PG00087*ED	February 2011	001	80082	CBOD 5 day	7D Qty	1.7	2.10446	2/15/2011
2PG00087*ED	March 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.45	1.39263	3/1/2011
2PG00087*ED	March 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.68	1.73925	3/1/2011
2PG00087*ED	March 2011	001	80082	CBOD 5 day	30D Qty	1.1	3.07815	3/1/2011
2PG00087*ED	March 2011	001	80082	CBOD 5 day	7D Qty	1.7	6.56319	3/1/2011
2PG00087*ED	March 2011	001	80082	CBOD 5 day	7D Qty	1.7	5.74942	3/8/2011



2PG00087*ED	March 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.68	1.04602	3/15/2011
2PG00087*ED	April 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.45	3.67821	4/1/2011
2PG00087*ED	April 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.68	2.07918	4/1/2011
2PG00087*ED	April 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.68	5.27724	4/15/2011
2PG00087*ED	May 2011	001	00530	Total Suspended Solids	30D Qty	1.4	1.80355	5/1/2011
2PG00087*ED	May 2011	001	00530	Total Suspended Solids	7D Qty	2.0	4.05752	5/1/2011
2PG00087*ED	May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	2.0	6.385	5/1/2011
2PG00087*ED	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	6.28	5/1/2011
2PG00087*ED	May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	3.75427	5/1/2011
2PG00087*ED	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	3.18515	5/1/2011
2PG00087*ED	May 2011	001	80082	CBOD 5 day	30D Qty	1.1	3.14628	5/1/2011
2PG00087*ED	May 2011	001	80082	CBOD 5 day	7D Qty	1.7	4.90536	5/8/2011
2PG00087*ED	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	6.49	5/15/2011
2PG00087*ED	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	4.32338	5/15/2011
2PG00087*ED	May 2011	001	80082	CBOD 5 day	7D Qty	1.7	3.99696	5/15/2011
2PG00087*ED	May 2011	001	00530	Total Suspended Solids	7D Qty	2.0	3.15669	5/22/2011
2PG00087*ED	May 2011	001	80082	CBOD 5 day	7D Qty	1.7	3.68281	5/22/2011
2PG00087*ED	June 2011	001	00530	Total Suspended Solids	30D Conc	12	24.5	6/1/2011
2PG00087*ED	June 2011	001	00530	Total Suspended Solids	30D Qty	1.4	8.21724	6/1/2011
2PG00087*ED	June 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	2.0	7.36	6/1/2011
2PG00087*ED	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	13.7	6/1/2011
2PG00087*ED	June 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	3.38389	6/1/2011
2PG00087*ED	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	4.25207	6/1/2011
2PG00087*ED	June 2011	001	31616	Fecal Coliform	30D Conc	1000	2600.	6/1/2011
2PG00087*ED	June 2011	001	31616	Fecal Coliform	7D Conc	2000	2600.	6/1/2011
2PG00087*ED	June 2011	001	00530	Total Suspended Solids	7D Qty	2.0	2.96744	6/8/2011
2PG00087*ED	June 2011	001	00530	Total Suspended Solids	7D Qty	2.0	3.52005	6/15/2011
2PG00087*ED	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	8.38	6/15/2011
2PG00087*ED	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	5.8996	6/15/2011
2PG00087*ED	June 2011	001	00530	Total Suspended Solids	7D Conc	18	85.	6/22/2011
2PG00087*ED	June 2011	001	00530	Total Suspended Solids	7D Qty	2.0	26.3814	6/22/2011
2PG00087*ED	July 2011	001	00530	Total Suspended Solids	30D Conc	12	25.25	7/1/2011
2PG00087*ED	July 2011	001	00530	Total Suspended Solids	7D Conc	18	85.	7/1/2011
2PG00087*ED	July 2011	001	00530	Total Suspended Solids	30D Qty	1.4	7.35331	7/1/2011
2PG00087*ED	July 2011	001	00530	Total Suspended Solids	7D Qty	2.0	24.7728	7/1/2011
2PG00087*ED	July 2011	001	00530	Total Suspended Solids	7D Qty	2.0	2.59651	7/8/2011
2PG00087*ED	July 2011	001	00530	Total Suspended Solids	7D Qty	2.0	2.0439	7/15/2011



2PG00087*ED	August 2011	001	00530	Total Suspended Solids	30D Qty	1.4	1.919	8/1/2011
2PG00087*ED	August 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	3.0	3.71	8/1/2011
2PG00087*ED	August 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.2	.60844	8/1/2011
2PG00087*ED	August 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	1.15147	8/1/2011
2PG00087*ED	August 2011	001	31616	Fecal Coliform	30D Conc	1000	1800.	8/1/2011
2PG00087*ED	August 2011	001	00530	Total Suspended Solids	7D Qty	2.0	2.79333	8/8/2011
2PG00087*ED	August 2011	001	00530	Total Suspended Solids	7D Qty	2.0	4.88265	8/22/2011

