



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: Williams County
Durham Estates
NPDES Permit

April 1, 2009

Williams County Commissioners
One Courthouse Square
Bryan, Ohio 43506

Dear Commissioners:

On March 18, 2009, an operation and maintenance inspection was made of the wastewater treatment plant serving Durham Estates. The treatment facility is located along County Road D in Center Township, Williams County. Mr. Willis Allomong was present and provided information regarding the operation of the treatment plant.

At the time of the inspection, the treatment facility was in operation and the contents of the aeration tanks were light brown due to recent wash-out. The final discharge from the polishing pond was clear with a slight green color. However, we did not collect effluent samples to determine the water quality of the discharge during our visit.

Our review of your discharge monitoring reports (1/1/2008 to 2/1/2009) for this facility indicated effluent violations. 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 Wick, P.E.
District Engineer/Unit Supervisor
Division of Surface Water

/llr

Enclosures

pc: DSW-NWDO File ↩

**OHIO ENVIRONMENTAL PROTECTION AGENCY
OPERATION AND MAINTENANCE INSPECTION**

NPDES Permit No. 2PG00085

Facility Name: The Durham Estates Expiration Date: March 31, 2012

Facility Address: County Road D Date: 3/18/2009 Time: 12:45 pm

City: Bryan County: Williams Township: Center

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

Person Contacted: Mr. Willis Allomong, Operator Phone: (419) 636-8739

Flow: Design: 20,000 GPD Present GPD

Trib. Pop. 50 homes (estimated) Weather at time of inspection: Temp Cool & Clear

OEPA Personnel: Jason Ko 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 X fair poor maintenance
 c. Sand filters have excellent good fair poor maintenance

- d. Not operating at expected efficiency due to:
- (1) 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	
<u> </u>	<u>X</u>	Chlorination
<u> </u>	<u>X</u>	Dechlorination
<u> </u>	<u> </u>	U.V

4.	<u> </u>	<u>X</u>	Compliance with NPDES Permit	Periodic Violations	<u> </u>	<u> </u>	<u> </u>
5.	<u>X</u>	<u> </u>	Adequate Plant Safety	Chronic Violation	<u>X</u>	<u> </u>	<u>Ammonia</u>

6. X Operation and Maintenance Service Name: Williams County Sanitary Dept

Frequency of Visits: Daily

Facility Name: The Durham Estates

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 2/year
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	Convert the New aeration tank to EQ
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u>N</u>	Cycle Time: 20 hrs "ON" & 4 hrs "OFF" & both operating
	2	Motor/ Blower Unit	
Secondary Treatment	4	Aeration Tank	Color : very light brown due to recent wash out (3/12) Adequate Aeration: <u>Y</u> <u>X</u> <u>N</u>
Final Settling	2	Clarifier	Only Old unit is in use ; New unit is out
	2	Sludge Return	In <u>X</u> Out _____ Returning light solids
	1	Surface Skimmer	In <u>X</u> Out _____ Returning clear
		Fixed Media Clarifier	
Tertiary Treatment		Surface Sand Filter	
	IN	Polishing Pond	Partial covered w/ duckweed
		Other	
Disinfection	Out	Chlorine	
	Out	Dechlorination	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
	IN	Other	Use design flow
Pumps		Raw Wastewater (type)	2 pump stations
		Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	OUT
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
	IN	Landfill	
		Land Application	
Advanced Treatment	IN	Post Aeration	Aeration provided at pond outlet
		Spray Irrigation	
		Other	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PG00085*DD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.0	5.81	2/1/2008
2PG00085*DD	February 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.3	.43982	2/1/2008
2PG00085*DD	March 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.0	7.9	3/1/2008
2PG00085*DD	March 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	6.0	7.9	3/1/2008
2PG00085*DD	March 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.3	.59803	3/1/2008
2PG00085*DD	March 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.5	.59803	3/1/2008
2PG00085*DD	June 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	1.72	6/1/2008
2PG00085*DD	June 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.1302	6/1/2008
2PG00085*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	3.26	7/1/2008
2PG00085*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	3.26	7/1/2008
2PG00085*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.24678	7/1/2008
2PG00085*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.24678	7/1/2008
2PG00085*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	4.09	8/1/2008
2PG00085*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	4.09	8/1/2008
2PG00085*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.30961	8/1/2008
2PG00085*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.30961	8/1/2008
2PG00085*DD	August 2008	001	31616	Fecal Coliform	30D Conc	1000	1300.	8/1/2008
2PG00085*DD	September 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	2.58	9/1/2008
2PG00085*DD	September 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	2.58	9/1/2008
2PG00085*DD	September 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.19531	9/1/2008
2PG00085*DD	September 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.19531	9/1/2008
2PG00085*DD	October 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	1.94	10/1/2008
2PG00085*DD	October 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.14686	10/1/2008