



Environmental  
Protection Agency

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

Re: Williams County  
Durham Estates  
NPDES Permit

October 5, 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 Durham Estates. The treatment facility is located along County Road D in Center 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. 2PG00085.

At the time of the inspection, the treatment facility was in operation and the contents of the aeration tanks were brown. 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 (1/1/2010 to 9/1/2011) for this facility indicated numerous effluent violations. In order to avoid escalated enforcement action, steps must be taken to eliminate these violations as soon as possible.

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

Yours truly,

Elizabeth Wick, PE  
Water Quality Engineer/Section Manager  
Division of Surface Water

/llr

Enclosures

pc: Willis Allomong, WW Operator

~~DSW-NWDO-File~~

Northwest District Office  
347 North Dunbridge Road  
Bowling Green, OH 43402-9398

419 | 352 8461  
419 | 352 8468 (fax)  
www.epa.ohio.gov



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: 9/14/2011 Time: 11:45 am

City: Bryan County: Williams Township: Center

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

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

Flow: Design: 20,000 GPD Present                      GPD

Trib. Pop. 50 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		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.)

IN    OUT  
X               Chlorination  
X               Dechlorination  
                      U.V

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

Frequency of Visits: Daily



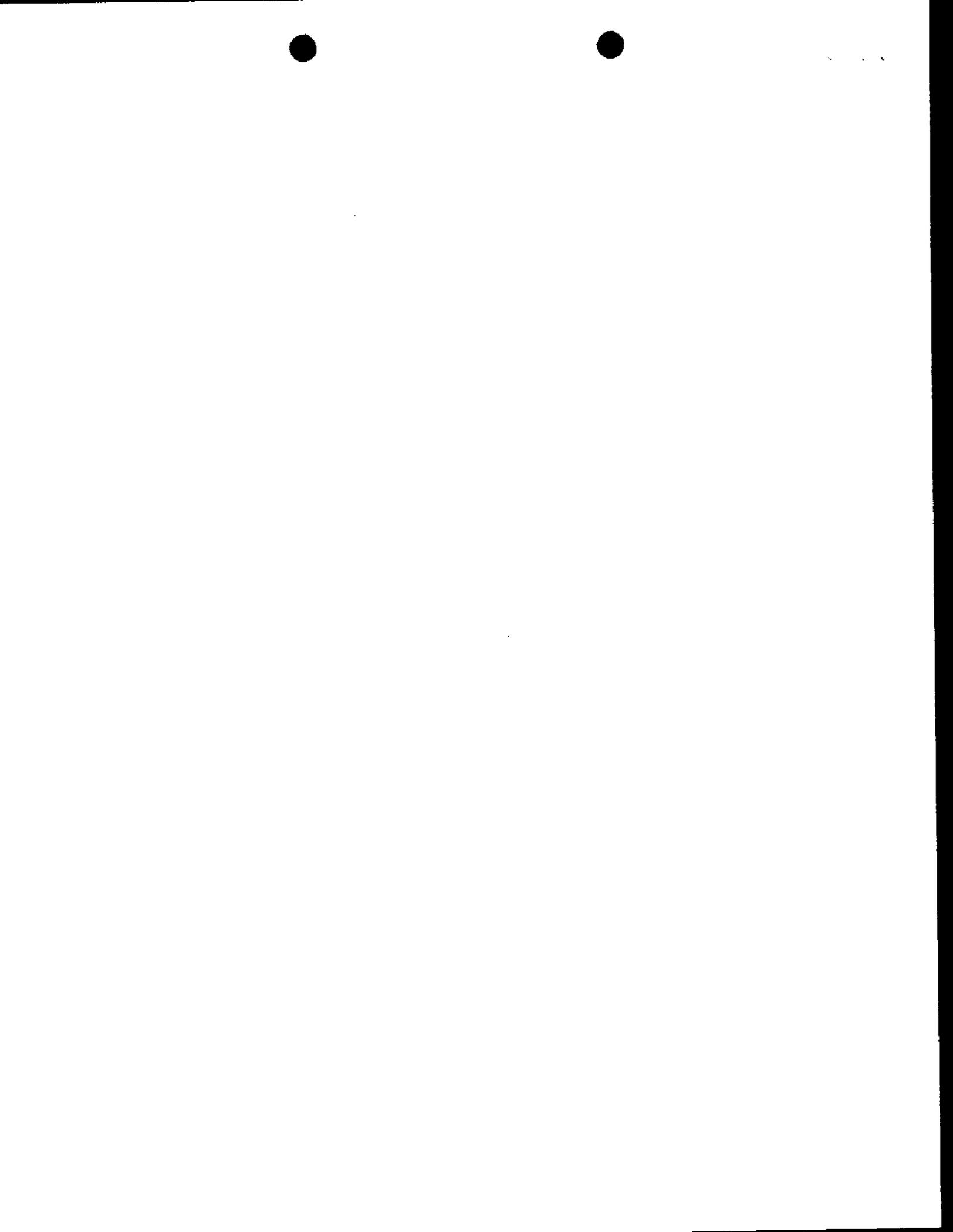
Facility Name: The Durham Estates

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 1/QTR
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	Convert the New aeration tank to EQ & aerated
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u>  </u> <u>N</u>	Cycle Time: 20 hrs "ON" & 4 hrs "OFF" & both operating
	2	Motor/ Blower Unit	
Secondary Treatment	4	Aeration Tank	Color : brown Adequate Aeration: <u>Y</u> <u>X</u> <u>N</u> <u>  </u>
Final Settling	2	Clarifier	Only <b>Old</b> unit is in use ; New unit is out
	2	Sludge Return	In <u>X</u> Out <u>  </u> Returning solids
	1	Surface Skimmer	In <u>X</u> Out <u>  </u> Returning clear
		Fixed Media Clarifier	
Tertiary Treatment		Surface Sand Filter	
	IN	Polishing Pond	Partial covered w/ duckweed
		Other	
Disinfection	IN	Chlorine	
	IN	Dechlorination	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
	IN	Other	Use design flow
Pumps	IN	Raw Wastewater (type)	1 pump stations
		Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	OUT
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		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 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	4.0	5.48	2/1/2010
2PG00085*DD	February 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	6.0	10.9	2/1/2010
2PG00085*DD	February 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.3	.41484	2/1/2010
2PG00085*DD	February 2010	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.5	.82513	2/1/2010
2PG00085*DD	February 2010	001	80082	CBOD 5 day	30D Conc	10	11.015	2/1/2010
2PG00085*DD	February 2010	001	80082	CBOD 5 day	7D Conc	15	19.	2/1/2010
2PG00085*DD	February 2010	001	80082	CBOD 5 day	30D Qty	0.8	.83384	2/1/2010
2PG00085*DD	February 2010	001	80082	CBOD 5 day	7D Qty	1.1	1.4383	2/1/2010
2PG00085*DD	June 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	5.54	6/1/2010
2PG00085*DD	June 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	5.54	6/1/2010
2PG00085*DD	June 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.41938	6/1/2010
2PG00085*DD	June 2010	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.41938	6/1/2010
2PG00085*DD	July 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	8.05	7/1/2010
2PG00085*DD	July 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	8.05	7/1/2010
2PG00085*DD	July 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.60939	7/1/2010
2PG00085*DD	July 2010	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.60939	7/1/2010
2PG00085*DD	July 2010	001	31616	Fecal Coliform	30D Conc	1000	1200.	7/1/2010
2PG00085*DD	July 2010	001	80082	CBOD 5 day	30D Conc	10	22.	7/1/2010
2PG00085*DD	July 2010	001	80082	CBOD 5 day	7D Conc	15	22.	7/1/2010
2PG00085*DD	July 2010	001	80082	CBOD 5 day	30D Qty	0.8	1.6654	7/1/2010
2PG00085*DD	July 2010	001	80082	CBOD 5 day	7D Qty	1.1	1.6654	7/1/2010
2PG00085*DD	July 2010	001	00300	Dissolved Oxygen	1D Conc	5.0	3.03	7/20/2010
2PG00085*DD	July 2010	001	00300	Dissolved Oxygen	1D Conc	5.0	4.89	7/27/2010
2PG00085*DD	August 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	7.14	8/1/2010
2PG00085*DD	August 2010	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	7.14	8/1/2010
2PG00085*DD	August 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.5405	8/1/2010
2PG00085*DD	August 2010	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.5405	8/1/2010
2PG00085*DD	August 2010	001	00300	Dissolved Oxygen	1D Conc	5.0	4.97	8/24/2010
2PG00085*DD	September 2010	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	2.16	9/1/2010
2PG00085*DD	September 2010	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.16351	9/1/2010
2PG00085*DD	October 2010	001	31616	Fecal Coliform	30D Conc	1000	1100.	10/1/2010
2PG00085*DD	May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	8.45	5/1/2011
2PG00085*DD	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	8.45	5/1/2011



2PG00085*DD	May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.63967	5/1/2011
2PG00085*DD	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.63967	5/1/2011
2PG00085*DD	June 2011	001	00530	Total Suspended Solids	30D Conc	30	81.5	6/1/2011
2PG00085*DD	June 2011	001	00530	Total Suspended Solids	30D Qty	2.3	6.16955	6/1/2011
2PG00085*DD	June 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.5	4.21	6/1/2011
2PG00085*DD	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	2.25	8.42	6/1/2011
2PG00085*DD	June 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.11	.3187	6/1/2011
2PG00085*DD	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.17	.63739	6/1/2011
2PG00085*DD	June 2011	001	00530	Total Suspended Solids	7D Conc	45	154.	6/22/2011
2PG00085*DD	June 2011	001	00530	Total Suspended Solids	7D Qty	3.4	11.6578	6/22/2011
2PG00085*DD	July 2011	001	00530	Total Suspended Solids	30D Conc	30	93.5	7/1/2011
2PG00085*DD	July 2011	001	00530	Total Suspended Solids	7D Conc	45	172.	7/1/2011
2PG00085*DD	July 2011	001	00530	Total Suspended Solids	30D Qty	2.3	7.07795	7/1/2011
2PG00085*DD	July 2011	001	00530	Total Suspended Solids	7D Qty	3.4	13.0204	7/1/2011
2PG00085*DD	July 2011	001	00300	Dissolved Oxygen	1D Conc	5.0	3.38	7/19/2011
2PG00085*DD	July 2011	001	00300	Dissolved Oxygen	1D Conc	5.0	2.16	7/26/2011
2PG00085*DD	August 2011	001	31616	Fecal Coliform	30D Conc	1000	2400.	8/1/2011
2PG00085*DD	August 2011	001	31616	Fecal Coliform	7D Conc	2000	2400.	8/1/2011

