



Environmental  
Protection Agency

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

Re: Marion County  
Grandview Estates  
NPDES Permit

October 6, 2011

Mr. Roger Dietrich  
Marion County Sanitary Engineering Dept  
222 West Center Street  
Marion, Ohio 43302

Dear Mr. Dietrich:

On September 20, 2011, an operation and maintenance inspection was made of the wastewater treatment plant serving Grandview Estates. The treatment facility is located on Grandview Drive, in Marion Township, Marion County. This inspection was conducted as part of the facility's National Pollutant Discharge Elimination System (NPDES) permit No. 2PG00036\*ED.

Wastewater is treated by a two stage continuous discharge lagoon system (Outfall 001) and an 80,000 gpd package plant (Outfall 002). At the time of the inspection, both treatment facilities were in operation. The contents of the aeration tank were brown and the final discharge from the package plant was clear. The final effluent from the polishing lagoon (duckweed covered) was clear with a musty odor. However, we did not collect effluent samples to determine the water quality of the discharge during our visit.

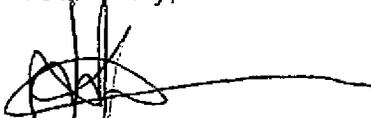
We strongly recommend that the county continue investigating the I/I problems throughout the entire collection system serving Grandview Estates. The findings and recommendations from smoke testing and video inspections should be incorporated into a comprehensive rehabilitation program with the goal of 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. This facility is considered to be in significant noncompliance. Steps must be taken to eliminate these violations as soon as possible. Please inform our office in writing of the actions planned to address these violations. The plan must include a time frame for completing the actions.

Mr. Roger Dietrich  
October 6, 2011  
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Our completed inspection form is enclosed for your review. If you have any questions or comments, please call me at (419) 373-3021.

Yours truly,

A handwritten signature in black ink, appearing to be "Jason Ko", with a long horizontal line extending to the right.

Jason Ko  
Division of Surface Water

/llr

Enclosures

pc: DSW-NWDO-File

# NPDES COMPLIANCE INSPECTION REPORT

## Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
2PG00036	OH0036765	2011/9/20	C	S	P

## Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Grandview Estates Grandview Road Marion, OH 43302	10:30 A.M.	6/1/2007
	Exit Time	Permit Expiration Date
	11:00 A.M.	5/31/2012

### Name(s) and Title(s) of On-Site Representative(s)

### Phone Number(s)

Mr. Jeff Good, Plant Operator

(740) 389-1526

### Name, Address and Title of Responsible Official

### Phone Number

Roger Dietrich, County Sanitary Engineer  
Marion County Sanitary Engineering Office  
222 West Center Street  
Marion, Ohio 43302

(740) 223-4130

## Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>-</u> Pretreatment
<u>S</u> Records/Reports	<u>N</u> Laboratory	<u>M</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluent	<u>S</u> Self-Monitoring Program
<u>S</u> Facility Site Review	<u>S</u> Sludge Storage	<u>-</u> Other
<u>M</u> Collection System		

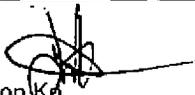
## Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

\* The lagoon system and the package WWTP were in operation; Flow in excess of 80,000 gpd will be diverted to the lagoon system

\* Encourage continuing I/I investigation and take corrective actions to address the excessive I/I problems in the collection system

\* The NPDES permit will expire 5/31/2012

\* Review of the Discharge Monitoring Report (1/1/2010 – 9/1/2011) indicated numerous effluent violations

  
 Jason Ko, Ohio EPA, Northwest District Office  
 Name(s) and Signature(s) of Inspector(s)

10/4/11  
Date

  
 Elizabeth A. Wick, P.E., Ohio EPA, Northwest District Office  
 Name and Signature of Reviewer

10/4/11  
Date



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Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PG00036*ED	February 2010	001	00530	Total Suspended Solids	7D Qty	34.1	43.7848	2/22/2010
2PG00036*ED	February 2010	001	80082	CBOD 5 day	7D Qty	30.3	39.2003	2/22/2010
2PG00036*ED	March 2010	001	00530	Total Suspended Solids	30D Qty	22.7	29.2599	3/1/2010
2PG00036*ED	March 2010	001	00530	Total Suspended Solids	7D Qty	34.1	37.6077	3/22/2010
2PG00036*ED	April 2010	001	00530	Total Suspended Solids	30D Conc	30	36.375	4/1/2010
2PG00036*ED	April 2010	001	00530	Total Suspended Solids	7D Conc	45	50.	4/8/2010
2PG00036*ED	May 2010	001	00530	Total Suspended Solids	30D Conc	30	35.375	5/1/2010
2PG00036*ED	May 2010	001	00530	Total Suspended Solids	30D Qty	22.7	23.0733	5/1/2010
2PG00036*ED	May 2010	001	00530	Total Suspended Solids	7D Qty	34.1	37.2084	5/8/2010
2PG00036*ED	June 2010	001	00530	Total Suspended Solids	30D Qty	22.7	25.7758	6/1/2010
2PG00036*ED	June 2010	001	80082	CBOD 5 day	30D Qty	19	19.2588	6/1/2010
2PG00036*ED	June 2010	001	00530	Total Suspended Solids	7D Qty	34.1	46.3889	6/8/2010
2PG00036*ED	June 2010	001	80082	CBOD 5 day	7D Qty	30.3	40.8977	6/8/2010
2PG00036*ED	July 2010	001	00530	Total Suspended Solids	30D Conc	30	32.2857	7/1/2010
2PG00036*ED	July 2010	001	00530	Total Suspended Solids	7D Conc	45	51.5	7/1/2010
2PG00036*ED	December 2010	001	80082	CBOD 5 day	30D Conc	25	47.93	12/1/2010
2PG00036*ED	December 2010	001	80082	CBOD 5 day	7D Conc	40	49.8	12/15/2010
2PG00036*ED	December 2010	001	80082	CBOD 5 day	7D Conc	40	46.995	12/22/2010
2PG00036*ED	January 2011	001	80082	CBOD 5 day	30D Conc	25	68.25	1/1/2011
2PG00036*ED	January 2011	001	80082	CBOD 5 day	7D Conc	40	64.5	1/1/2011
2PG00036*ED	January 2011	001	80082	CBOD 5 day	7D Conc	40	64.	1/8/2011
2PG00036*ED	January 2011	001	80082	CBOD 5 day	7D Conc	40	66.5	1/15/2011
2PG00036*ED	January 2011	001	80082	CBOD 5 day	7D Conc	40	78.	1/22/2011
2PG00036*ED	February 2011	001	80082	CBOD 5 day	30D Conc	25	89.3333	2/1/2011
2PG00036*ED	February 2011	001	80082	CBOD 5 day	7D Conc	40	87.	2/1/2011
2PG00036*ED	February 2011	001	80082	CBOD 5 day	30D Qty	19	66.8714	2/1/2011
2PG00036*ED	February 2011	001	80082	CBOD 5 day	7D Conc	40	93.5	2/8/2011
2PG00036*ED	February 2011	001	00530	Total Suspended Solids	7D Qty	34.1	37.0173	2/15/2011
2PG00036*ED	February 2011	001	80082	CBOD 5 day	7D Conc	40	87.5	2/15/2011
2PG00036*ED	February 2011	001	80082	CBOD 5 day	7D Qty	30.3	167.107	2/15/2011
2PG00036*ED	February 2011	001	00300	Dissolved Oxygen	1D Conc	5.0	1.51	2/15/2011
2PG00036*ED	February 2011	001	00300	Dissolved Oxygen	1D Conc	5.0	1.81	2/24/2011
2PG00036*ED	March 2011	001	80082	CBOD 5 day	30D Qty	19	34.5618	3/1/2011



2PG00036*ED	March 2011	001	80082	CBOD 5 day	7D Qty	30.3	32.6989	3/1/2011
2PG00036*ED	March 2011	001	80082	CBOD 5 day	7D Qty	30.3	61.1548	3/8/2011
2PG00036*ED	March 2011	001	00300	Dissolved Oxygen	1D Conc	5.0	3.83	3/8/2011
2PG00036*ED	March 2011	001	00300	Dissolved Oxygen	1D Conc	5.0	3.81	3/15/2011
2PG00036*ED	April 2011	002	00530	Total Suspended Solids	30D Qty	3.6	5.3113	4/1/2011
2PG00036*ED	April 2011	002	00530	Total Suspended Solids	7D Qty	5.5	11.0143	4/1/2011
2PG00036*ED	April 2011	002	80082	CBOD 5 day	30D Qty	3.0	4.05033	4/1/2011
2PG00036*ED	April 2011	002	80082	CBOD 5 day	7D Qty	4.5	6.38832	4/1/2011
2PG00036*ED	April 2011	002	80082	CBOD 5 day	7D Qty	4.5	6.80482	4/22/2011
2PG00036*ED	May 2011	001	00530	Total Suspended Solids	30D Qty	22.7	31.7930	5/1/2011
2PG00036*ED	May 2011	001	00530	Total Suspended Solids	7D Qty	34.1	41.7599	5/1/2011
2PG00036*ED	May 2011	001	80082	CBOD 5 day	30D Qty	19	43.4155	5/1/2011
2PG00036*ED	May 2011	001	80082	CBOD 5 day	7D Qty	30.3	83.3254	5/1/2011
2PG00036*ED	May 2011	002	50060	Chlorine, Total Residu	1D Conc	0.019	.21	5/9/2011
2PG00036*ED	May 2011	001	00530	Total Suspended Solids	7D Qty	34.1	36.2905	5/22/2011



F. GUIDELINES - VISUAL OBSERVATION - UNIT PROCESS

Form Approved  
OMB No. 158-R0035

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	-	
	Potable Water Supply Protection	-	
	Safety Features	S	Fenced
	Bypasses	-	
	Stormwater Overflows	-	
	Alternate Power Source	-	
Preliminary	Maintenance of Collection Systems	M	Continue I/I investigation & address I/I problems
	Pump Station	IN	3 influent pumps
	Ventilation	-	
	Bar Screen	-	
	Disposal of Screenings	-	
	Comminutor	-	
	Grit Chamber	IN	Diverter box also provides some grit removal
	Disposal of Grit	S	
	Equalization Basin	-	
Primary	Settling Tanks	-	
	Scum Removal	-	
	Sludge Removal	-	
	Effluent	-	
Sludge Disposal	Digesters (Aerobic)	IN	1 unit & aerated
	Temperature and pH	-	
	Gas Production	-	
	Heating Equipment	-	
	Sludge Pumps	IN	
	Drying Beds	-	
	Vacuum Filter	-	
	Disposal of Sludge	S	Haul to Richland Road WWTP
Other	Flow Meter and Recorder	IN	At influent pumps & Hour meter at dosing pump
	Records	S	
	Lab Controls	-	
	Chemical Treatment	-	
Secondary-Tertiary List items as required	Aeration Basin (80,000 gpd design)	IN	1 unit & brown (OFF 1/2 hr & ON 1/2 hr)
	Secondary Settling	IN	2 units & weirs need to be cleaned
	Fixed Media	IN	2 units & weirs need to be cleaned
	Post Air	IN	For Outfalls 001 & 002
	Blowers	IN	2 units for aeration tank & 2 units for sludge treatment
	Sand Filter	IN	4 units
	Lagoons	IN	Aerated primary & polishing (duckweed covered); in use above 80,000 gpd
Disinfection	Effluent	S	Clear for 001 (musty odor) & 002
	Disinfection System	IN	
	Effective Dosage	-	
	Contact Time	-	
	Contact Tank	IN	
	Dechlorination	IN	



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