



**Environmental  
Protection Agency**

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

May 29, 2012

Mary A. Sampsel  
Assistant County Engineer/Environmental  
Crottinger Estates WWTP  
233 West 6th Street  
Marysville, OH 43040

**Re: Crottinger Estates WWTP  
NPDES Permit 4PG00003/ OH0039128  
Semi-Public CEI  
Union County**

Dear Ms. Sampsel:

On May 23, 2012, a Semi-Public CEI was conducted at the Crottinger Estates WWTP. Present for the inspection were Bill Narducci and Mike Galloway, of Union County Engineers, and myself of the Ohio EPA, Central District Office, Division of Surface Water. The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant.

**Findings:**

1. Attached are compliance and flow rate tables between November 2010 and May 2012. There were two months with loading violations and two months with E. coli violations. Most violations are likely attributable to high flow rates. The flow rates averaged 10,000 GPD, the peak flow was 110,000 GPD, while the design flow rate is 7,000 GPD. The County has the capability of remotely shutting off blowers which was installed in late 2010.

Parrott Village and Mill Creek Estates are both facilities which are being investigated for inflow and infiltration (I&I) reduction. The exceedances at Crottinger are relatively small and as such, I will not require I&I investigation at Crottinger at this time. Sometime in the future I would recommend that you place Crottinger Estates on the list to be investigated.

2. The baffle within the clarifier appeared to need more frequent scum cleaning. Please scrape the scum out more frequently.
3. The effluent discharging to the field tile appeared to be clear with no odor.

Mary A. Sampsel  
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Crottinger Estates WWTP  
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Attached is the inspection report. If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3846 or e-mail at cole.miller@epa.ohio.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "Cole Miller".

Cole Miller  
Environmental Specialist  
Compliance and Enforcement Unit  
Division of Surface Water  
Central District Office

ec: Cole Mille

CM/nsm 5-23-2012 Crottinger Estates CEI

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PG00003	OH0039128	CEI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
5/23/2012	10:00 AM	10:30 AM	No	No

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Crottinger Estates WWTP	3/1/2011
	Permit Expiration Date
	2/29/2016
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Mike Galloway, Operator of Record Bill Narducci, Project Engineer	
Name and Title of Responsible Official	Phone Number
Mary A. Sampsel, Asst County Engineer/Environmental	(937) 645-3018

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
S	NPDES Compliance	
S*	Operations & Maintenance	Please clean baffles more frequently
S	Facility Site Review	
M	Collection System	I&I should be investigated sometime in the future
S	Flow Measurement	
S	Receiving Waters	
S	Laboratory	

Comments:

Signatures	
 5/25/12	 5/25/12
Cole Miller, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office

## Compliance Data for Crottinger Estates WWTP between 11/1/2010 to 5/1/2012

### Summary

Permit Effluent Limit Violations: 7  
 Permit Effluent Code Violations: 0  
 Permit Effluent Frequency Violations: 0  
 Compliance Schedule Violations: 0

Limit Violations						
Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
April 2011	001	Total Suspended Solids	30D Qty	0.32	.61512	4/1/2011
April 2011	001	CBOD 5 day	30D Qty	0.27	.30756	4/1/2011
May 2011	001	E. coli	30D Conc	126	500.	5/1/2011
May 2011	001	E. coli	7D Conc	284	500.	5/15/2011
July 2011	001	E. coli	30D Conc	126	1600.	7/1/2011
July 2011	001	E. coli	7D Conc	284	1600.	7/8/2011
December 2011	001	CBOD 5 day	30D Qty	0.27	.30113	12/1/2011

Flow Data for Crottinger Estates WWTP between 11/1/2010 and 5/1/2012

	Date	Flows (GPD)
Ten Highest Flows	4/26/2011	113788
	5/27/2011	71273
	3/5/2011	56084
	3/6/2011	56084
	3/7/2011	56084
	4/30/2011	51636
	5/1/2011	51636
	5/2/2011	51636
	5/3/2011	51636
	5/4/2011	51636
<b>Average Flow Rate</b>		10169

Method of flow monitoring:	Hour meter
Type of alarms for plant:	Visual alarm and internet text messaging system

**SECTION D: PRETREATMENT**

Type of Pretreatment: None  
 Does the Trash Trap need pumped: N/A  
 Maintenance of pretreatment components is: N/A

Comments/Status:

**SECTION E: Aeration**

Color of sludge: Brown  
 Quality of Sludge: Good  
 Foam: None  
 Odor: None

	Yes	No		Yes	No
Aeration is taking place	X	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>	X
Blowers are operating	X	<input type="checkbox"/>	Blowers are on a timer	X	<input type="checkbox"/>
Skimmers are operating	X	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	X
Diffusers are operating	X	<input type="checkbox"/>	Grating is present	X	<input type="checkbox"/>
Sludge return is operating	X	<input type="checkbox"/>			

Maintenance of aerating equipment is adequate.

Comments/Status: Settleability tests are used as process control.

Blowers are 30 minutes on / 30 minutes off

**SECTION F: SECONDARY TREATMENT**

Clarity: Clear  
 Condition of Weir: Some algae growth  
 Weir is level: Yes  
 Effluent in weir: Clear  
 Clarifier walls need scraped: No  
 Pin floc observed: No  
 Sludge blanket visible: No

Overall maintenance of settling components is: Adeqaute

Comments/Status: The baffle near the weir appeared to have some sludge build up. Please clean weirs and baffles more regularly.

**SECTION G: TERTIARY TREATMENT**

	Yes	No		Yes	No
Surface sand Filters:	X	<input type="checkbox"/>	Subsurface/Upflow	<input type="checkbox"/>	X
Distribution box operating	X	<input type="checkbox"/>	Beds alternated	X	<input type="checkbox"/>
Are filters ponding/flooding	<input type="checkbox"/>	X	Beds raked	X	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	X	Chlorination present	X	<input type="checkbox"/>
UV present	<input type="checkbox"/>	X	Dechlorination present	X	<input type="checkbox"/>

Frequency of cleaning: Monthly  
 Fixed media upkeep: N/A  
 Overall maintenance of components is: Adequate

Comments/Status:

**SECTION H: SLUDGE HANDING / STORAGE DISPOSAL**

Hauler name: Chris Warner, Warner liquid waste hauling  
 Disposal Site: Marysville  
 Sludge wasted from: Clarifier/aeration  
 How often is sludge wasted: Annually  
 Sludge drying beds: No                      Sludge holding tank: No

Overall maintenance of components is: N/A

Comments/Status:

**SECTION I: RECORD KEEPING / OPERATOR OF RECORD**

- (a) Wastewater Treatment Works classification (OAC 3745-7).....A
- (b) Operator of Record holds unexpired license of class required by Permit.....Y
- (c) Copy of certificate of Operator of Record displayed on-site.....N/E
- (d) Has the Operator of Record submitted an ORC Notification form..Y
- (e) Minimum operator staffing requirements fulfilled (OAC 3745-7)....Y
- (f) If a Staffing Reduction plan has been approved, are the stipulations of the plan being met.....N/A
- (g) Operator of Record log book provided.....Y
- (h) Format of log book (e.g. computer log, hard bound book)

**Hard bound book**

- (i) Log book kept onsite (in an area protected from weather).....Y
- (j) Log book contains the following:
  - I. Identification of treatment works.....Y
  - II. Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7.....Y
    - i. Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.).....Y
    - ii. Laboratory results (unless documented on bench sheets)...Y
    - iii. Identification of person making entries.....Y
- (k) Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred.....Y

Comments/Status: MASI does sampling but the operator tests temperature, DO, chlorine, and pH

**SECTION J: PLANT DISCHARGE**

Discharge point is a: Field tile  
Name of discharge point: Sugar Run  
Discharge is visible: N/A                      Quality of Effluent: Clear (from chlor/dechlor)