



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

Re: Erie County
Orchard Beach
NPDES Permit

September 13, 2013

Mr. Tim Neher, VP
Orchard Beach Homeowners' Association
67 Parkway Drive
Vermilion, Ohio 44089

Dear Mr. Neher:

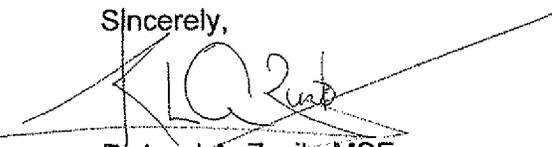
On September 3, 2013, an inspection was made of the wastewater treatment facilities serving Orchard Beach and the Vermilion Country Club (VCC). In general, both operation and maintenance appeared good. At the time of my visit, all major treatment components were in operation and a very clear final effluent was observed in the contact tank prior to discharging. I noted that the chlorination tablets in the tube feeder appeared old and needed to be refreshed.

I was notified in February that a new pump was installed in the flow equalization tank. Your operator also noted that with the EQ tank and collection system improvements, the plant has now been able to handle high flow rain events efficiently without any additional overflows. I appreciate your efforts in addressing this issue.

National Pollutant Discharge Elimination System (NPDES) permit monthly discharge monitoring reports are being received and indicated periodic violations of your NPDES permit thus far this year. Enclosed is a copy of the violations to review with your operator.

Enclosed is my completed inspection report. If you have any questions, please call me at (419) 373-3020, or email at rick.zuzik@epa.ohio.gov.

Sincerely,



Richard A. Zuzik, MSE
Division of Surface Water

/jlm

Enclosures

pc: Erie County Health Department
Eastwood Environmental

ec: Tracking

Get New Data								
Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00103*DD	May 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	2.0	6.1	5/1/2013
2PR00103*DD	May 2013	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	3.0	6.1	5/8/2013
2PR00103*DD	May 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.08	.13853	5/1/2013
2PR00103*DD	May 2013	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.13	.13853	5/8/2013
2PR00103*DD	July 2013	001	31648	E. coli	30D Conc	126	6400.	7/1/2013
2PR00103*DD	July 2013	001	31648	E. coli	7D Conc	284	6400.	7/8/2013

1/13 - 8/13

OHIO ENVIRONMENTAL PROTECTION AGENCY
 OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 150,000 GPD

NPDES Permit No. 2PRO0103*DD

Facility Name Orchard Beach / VCC Expiration Date 10-31-16
 Facility Location SW corner of Rt 6 & Risden Rd Date 9-3-13 Time 11:50 am
 City - County Erie Township Vermilion
 Name of Owner Orchard Beach HOA, Tim Neher, VP Owner Phone (440) 967-6161
 Person Contacted - Operator of Record Eastwood Env.
 Flow: Design 11,000 GPD WWTP Classification: A or I
 Trib. Pop. 38 homes & VCC (actual - estimated) Weather at time of inspection: Temp 60° Cloudy
 OEPA Personnel Rick Zuzik District NWDD

1. Plant Effluent - Mark Severity No.

No.	Severity Description	Turbidity	Odor	Color
<u>0</u>	None	Clear	None	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: Darby Creek

<input type="checkbox"/>	None	<input type="checkbox"/>	Mild	<input type="checkbox"/>	Moderate	<input type="checkbox"/>	Serious
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3. a. Plant has excellent operation
 b. Plant has excellent maintenance
 c. Sand filters have excellent maintenance N/A

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
<u>✓</u>	_____
_____	_____
_____	_____
	Chlorination Tablets
	Dechlorination Tablets
	Ultraviolet (U.V.)

Yes No

4. Compliance with NPDES Permit - Time Period: 1/13 to 8/13

Periodic Violations Y N Parameters: Ammonia, Bacteria

Chronic Violations _____

5. O & M logbook kept and available on site: Location _____

6. Staffing Requirement Met (Class A - 2 days per week for minimum 1 hour per week)
 (Class I - 3 days per week for minimum 1.5 hours per week)

7. Adequate Plant Safety: Deficiencies _____

Facility Name: Orchard Beach

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency
		Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	1	Flow Equalization	New Pump - 2/13
Aeration Equipment		Plant Timer <input type="checkbox"/> Y <input type="checkbox"/> N	Cycle Time:
	2	Motor / Blower Unit	
Secondary Treatment	2	Aeration Tank	Color: Brown Adequate Aeration Y <input checked="" type="checkbox"/> N
Final Settling	1	Clarifier	good settling
	2	Sludge Return	In <input checked="" type="checkbox"/> Out
	1	Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	OK
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	Very clear
	1	Chlorine Tube Feeder	needs fresh tabs
	1	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling	2	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	