



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
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 Korteski, Director

Re: Erie County
Orchard Beach
NPDES Permit

September 12, 2008

Orchard Beach Homeowners Association
c/o Rocky Mercer, President
31 Center Road
Vermilion, OH 44089

Dear Mr. Mercer:

On August 21, 2008 an inspection was made of the sewerage facilities serving Orchard Beach. Mr. Mike Logsdon of Eastwood Environmental, operator was present and provided information on plant operations. In general, both operation and maintenance appeared fair. A clear final effluent was observed in the chlorine contact tank.

At the time of my visit, all major treatment components were in operation and I was pleased to see both disinfection and dechlorination tablets in the tube feeders. A flow splitter has been installed which also acts to recirculate flow back to the equalization basin. This was done in an attempt to alleviate the effect of excessive cleanwater flow from the collection system following rain events. This has been a chronic problem, well documented during previous inspections. You previously informed me that the sewers have already been televised, and leaky joints were identified as an obvious source. Downspouts and footer drains are other typically found illegal connections. I recommend that a consulting engineering firm experienced with small communities be retained to evaluate your findings and make recommended corrective actions. Without improvements, operation and maintenance issues will continue and lead to NPDES permit violations. This will also be an issue when regional sanitary sewers are extended to this area, as Erie County will require excessive cleanwater to be removed prior to allowing taps into their collection system.

NPDES monthly discharge monitoring reports are being submitted, and have indicated periodic violations most likely due to the collection system problems. Enclosed is our completed inspection form and a list of the violations since the beginning of the year. If there are any errors, or you have any questions, please feel free to call me at (419) 373-3020, or email at rick.zuzik@epa.state.oh.us.

Sincerely,


Richard A. Zuzik, MSE
Division of Surface Water

/lb

pc: Erie County Health Department
Eastwood Environmental

NWDO file

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PRO0103

Facility Name Orchard Beach Expiration Date: 8-31-11
 Facility Address SW corner of Riden and SR6 Date 8-21-08 Time 1:40 am pm
 City - County Erie Township Vermilion
 Name and Address of Owner Homeowner Assn, Rocky Mercer, Pres.
 Person Contacted Mike Logsdon, Eastwood Env. Owner Phone (440) 967-7540
 Flow: Design 11,000 GPD Present unknown GPD (metered - estimated)
 Trib. Pop. 38 homes / Vermilion CC (actual - estimated) Weather at time of inspection: Temp 80° Clear
 OEPA Personnel Bick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<input checked="" type="radio"/> 0	None	<input checked="" type="checkbox"/>	Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	Colorless
<input type="radio"/> 1	Mild	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 2	Moderate	<input type="checkbox"/>	Light Solids	<input type="checkbox"/>	Musty	<input type="checkbox"/>	Grey
<input type="radio"/> 3	Serious	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 4	Extreme	<input type="checkbox"/>	Heavy Solids	<input type="checkbox"/>	Septic	<input type="checkbox"/>	Black

2. Effect of effluent on Receiving Stream Name: Darby Creek - not observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<input type="radio"/> 0	None	<input type="checkbox"/>	Clear	<input type="checkbox"/>	None	<input type="checkbox"/>	Colorless
<input type="radio"/> 1	Mild	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 2	Moderate	<input type="checkbox"/>	Light Solids	<input type="checkbox"/>	Musty	<input type="checkbox"/>	Grey
<input type="radio"/> 3	Serious	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 4	Extreme	<input type="checkbox"/>	Heavy Solids	<input type="checkbox"/>	Septic	<input type="checkbox"/>	Black

3. a. Plant has _____ excellent _____ good fair _____ poor operation
 b. Plant has _____ excellent _____ good 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) I/I of
Collection system

Disinfection: (Required May 1 thru Oct. 31)	
IN	OUT
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Chlorination Tablets
 Dechlorination Tablets
 Ultraviolet (U.V.)

Yes No

4. Compliance with NPDES Permit

Periodic Violations Y N Parameters: TSS, Fecal Coliform
 Chronic Violations

5. Adequate plant safety

6. Operation and Maintenance Service

Name Eastwood Environmental
 Frequency of Visits 1/WK

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 splitter to recirculate
Aeration Equipment		Plant Timer <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Cycle Time:
	2	Motor / Blower Unit	
Secondary Treatment	2	Aeration Tank	Color: Dark Brown Adequate Aeration Y <input checked="" type="checkbox"/> N
Final Settling	1	Clarifier	turbid
	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	some weeds
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	
	1	Chlorine Tube Feeder	
	1	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00103*CD	March 2008	001	00530	Total Suspended Solids 30D Conc	12	34.	3/1/2008	
2PR00103*CD	March 2008	001	00530	Total Suspended Solids 30D Qty	0.50	.90083	3/1/2008	
2PR00103*CD	March 2008	001	00530	Total Suspended Solids 1D Conc	18	34.	3/13/2008	
2PR00103*CD	March 2008	001	00530	Total Suspended Solids 1D Qty	0.75	.90083	3/13/2008	
2PR00103*CD	May 2008	001	00610	Nitrogen, Ammonia (NH 30D Conc	2	2.11	5/1/2008	
2PR00103*CD	July 2008	001	31616	Fecal Coliform 1D Conc	400	1200.	7/24/2008	