



**Environmental  
Protection Agency**

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director

Re: Erie County  
Kelleys Island  
Island Venture  
NPDES Permit

October 4, 2010

Mr. Ray Bauman  
Muirwood Village  
101 Lands Rush  
Sandusky, Ohio 44870

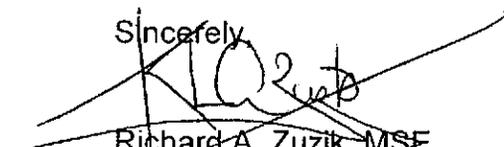
Dear Mr. Bauman:

On September 21, 2010, an inspection was made of the sewerage facilities serving the Island Venture resort. At the time of my visit all major treatment components were in operation and a clear final effluent was observed being discharged from the plant.

Monthly discharge monitoring reports are being received and numerous NPDES permit violations have been reported since the beginning of the tourist season. A copy of the violations is enclosed for your review with your operator. Discussion should focus on what needs to be done to improve NPDES permit compliance next season, as this new facility should not have compliance issues.

My inspection report is enclosed. If you have any questions, please call me at (419) 373-3020 or email at [rick.zuzik@epa.state.oh.us](mailto:rick.zuzik@epa.state.oh.us).

Sincerely,

  
Richard A. Zuzik, MSE  
Division of Surface Water

/lb

pc: Erie County Health Department  
Eastwood Environmental

~~NWBO file~~

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PR00242

Facility Name Island Venture Expiration Date 6-30-12

Facility Address W. Lake Shore & Cameron Date 9/2/10 Time 2:00 am (pm)

City Kelley's Island County ERIE Township -

Name and Address of Owner Ray Baumann

Person Contacted - Owner Phone (419) 706-0637

Flow: Design 5000 GPD Present - GPD (metered - estimated)

Trib. Pop. 31 unit motel (actual - estimated) Weather at time of inspection: Temp 80° Clear

OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: L. Erie

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<u>0</u>	None		<u>Clear</u>		<u>None</u>		<u>Colorless</u>
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		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) -

Disinfection: (Required May 1 thru Oct. 31)

IN	OUT
<u>✓</u>	<u>✓</u>
<u>-</u>	<u>-</u>
<u>-</u>	<u>-</u>

Chlorination Tablets  
 Dechlorination Tablets  
 Ultraviolet (U.V.)

Yes No (5/10 - 8/10)

4. ✓ Compliance with NPDES Permit

Periodic Violations Y N Parameters: -

Chronic Violations ✓ E. Coli, Ammonia, COD

5. ✓ Adequate plant safety

6. ✓ Operation and Maintenance Service

Name Eastwood Env.

Frequency of Visits 1/wk

Facility Name: Island Venture

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

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00242*AD	May 2010	001	31648	E. coli	30D Conc	126	210.	5/1/2010
2PR00242*AD	June 2010	001	00530	Total Suspended Solids	30D Conc	12	15.	6/1/2010
2PR00242*AD	June 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	6.37	6/1/2010
2PR00242*AD	June 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	12.08	6/2/2010
2PR00242*AD	July 2010	001	00530	Total Suspended Solids	30D Conc	12	13.	7/1/2010
2PR00242*AD	July 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	24.585	7/1/2010
2PR00242*AD	July 2010	001	80082	CBOD 5 day	30D Conc	10	26.	7/1/2010
2PR00242*AD	July 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	43.1	7/6/2010
2PR00242*AD	July 2010	001	80082	CBOD 5 day	1D Conc	15	26.	7/6/2010
2PR00242*AD	July 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	6.07	7/20/2010
2PR00242*AD	August 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	24.55	8/1/2010
2PR00242*AD	August 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	26.5	8/3/2010
2PR00242*AD	August 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	22.6	8/24/2010
2PR00242*AD	June 2010	001	31648	E. coli			AK	6/16/2010
2PR00242*AD	July 2010	001	31648	E. coli			AK	7/6/2010
2PR00242*AD	August 2010	001	31648	E. coli			AK	8/3/2010

Get New Data

Get Detail for Selected Permit

## Facilities in Significant Non-Compliance \*\*

Period: Mar-10 Aug-10

County	Permit #	Facility Name	Major	Station Code	Param Code	Parameter Name	Max % Exceed	# Months Signif Exceed (1)**	# Months Exceed (2)**
Erie	2PR00242	Island Venture			1 00610	Nitrogen, Ammonia (NH3)	2773.3	3	3

### Footnotes

#### for Significant NonCompliance

\*\* Significant non-compliance with effluent limits occurred if one or more pollutants met the following conditions:

1. During 2 or more months, the reported effluent concentration (or computed load) for a parameter exceeded an effluent limit by:

a. 40% for Group 1 pollutants **plus Fecal Coliform**

b. 20% for Group 2 pollutants **plus pH, Temperature, whole effluent toxicity**

-- or --

2. During 4 or more months, the reported concentration (or computed load) exceeded the limit by > 1%.

Note: This method differs from USEPA Significant Non-compliance (SNC) method in the following ways:

- USEPA only evaluates SNC for average limits. In above analyses, maximum and weekly limits were also considered.