



**Environmental  
Protection Agency**

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

Re: Erie County  
Cottages of Beulah Beach  
NPDES Permit

August 28, 2012

Mr. Brian Boesch, Director  
Beulah Beach Christian Community  
6101 West Lake Road  
Vermilion, Ohio 44089

Dear Mr. Boesch:

On August 8, 2012, an inspection was made of the wastewater treatment plant (WWTP) serving Beulah Beach Cottages. The main treatment plant serving Beulah Beach was tied into the Erie County sanitary sewer last year, and has been properly abandoned. My comments and recommendations are as follows:

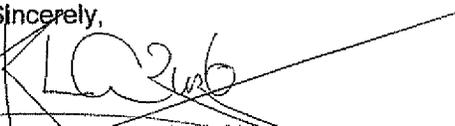
I was disappointed to once again find unacceptable conditions at this facility. Both operation and maintenance were poor. The plant was operating; however, the clarifier was turbid grey, with large solids on the surface, and in the weir. The sand filter in use was three-quarters full of septic effluent with mosquito larvae present. The dechlorination unit was missing and final effluent quality very turbid.

I informed Eastwood Environmental, your contract operator, of the poor condition of the facility and to provide service as soon as possible. I was later informed of and provided pictures of improvements made to address the above noted deficiencies. The plant aeration and settling tanks, trash trap and chlorine contact tank and sand filter beds were all pumped, and the dechlorination unit was replaced. The motor/blower unit, which was deemed inadequate and a major factor contributing to the poor operation, was replaced with a larger unit to provide additional oxygen.

Monthly discharge monitoring reports are being received in a timely manner and indicate multiple violations of your National Pollutant Discharge Elimination System (NPDES) permit thus far this year. A copy of the violations is enclosed to review with your operator. I will accept the above improvements as your action to improve compliance; however, a more proactive approach needs to be developed to prevent the reoccurrence of these conditions.

Please find enclosed a copy of my inspection report. If there are any errors, or 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

/jlm  
Enclosures  
pc: Eastwood Environmental  
Erie County Health Department  
ec: Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PRO0168\*CD  
 Facility Name Cottages of Beulah Beach Expiration Date 5-31-17  
 Facility Address 5919 West Lake Rd Date 8-8-12 Time 12<sup>00</sup> am  pm  
 City - County Erie Township Vermilion  
 Name and Address of Owner Beulah Beach Church Community, Brian Boesch, Exec. Dir.  
 Person Contacted none Owner Phone (440) 967-4861  
 Flow: Design 4000 GPD Present \_\_\_\_\_ GPD (metered - estimated)  
 Trib. Pop. 28 Cottages (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
0	None		Clear		None		Colorless
1	Mild						
<input checked="" type="radio"/> 2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: Trib to L. Erie - Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
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	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chlorination Tablets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dechlorination Tablets
<input type="checkbox"/>	<input type="checkbox"/>	Ultraviolet (U.V.)

- New unit provided after inspection

Yes No (1/12 - 7/28/12)

4.  Compliance with NPDES Permit  
 Periodic Violations Y N Parameters: \_\_\_\_\_  
 Chronic Violations  Ammonia, TSS, C BOD5

5.  Adequate plant safety

6.  Operation and Maintenance Service  
 Name Eastwood Env.  
 Frequency of Visits 2+/wk  
Class A

Facility Name: Cottages at Bulah Beach

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	/	Trash Trap	Pumping Frequency
		Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	/	Plant Timer ____Y ____N	Cycle Time:
		Motor / Blower Unit	<i>New larger unit installed after visit</i>
Secondary Treatment	/	Aeration Tank	Color: <i>Grey</i> - Adequate Aeration Y ____ N <input checked="" type="checkbox"/>
Final Settling	/	Clarifier	<i>Very poor - grey solids</i>
		Sludge Return	In <input checked="" type="checkbox"/> Out
		Surface Skimmer	In ____ Out <input checked="" type="checkbox"/>
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	<i>1 ponded w/ mosquito</i>
		Polishing Pond	<i>- cleaned after visit</i>
		Other	
Disinfection	/	Contact Tank	<i>very turbid</i>
		Chlorine Tube Feeder	<i>id</i>
		Dechlorination Tube Feeder	<i>Replaced after visit</i>
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

1/12 - 7/28/12

Get New Data								
Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00168*CD	June 2012	001	00530	Total Suspended Solids	30D Conc	12.0	23.	6/1/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	71.3	6/1/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.16192	6/1/2012
2PR00168*CD	June 2012	001	80082	CBOD 5 day	30D Conc	10.0	48.	6/1/2012
2PR00168*CD	June 2012	001	00530	Total Suspended Solids	7D Conc	18.0	23.	6/22/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	71.3	6/22/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.16192	6/22/2012
2PR00168*CD	June 2012	001	80082	CBOD 5 day	7D Conc	15.0	48.	6/22/2012
2PR00168*CD	July 2012	001	00530	Total Suspended Solids	30D Conc	12.0	27.	7/1/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	66.5	7/1/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.15102	7/1/2012
2PR00168*CD	July 2012	001	80082	CBOD 5 day	30D Conc	10.0	20.	7/1/2012
2PR00168*CD	July 2012	001	00530	Total Suspended Solids	7D Conc	18.0	27.	7/22/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	66.5	7/22/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.15102	7/22/2012
2PR00168*CD	July 2012	001	80082	CBOD 5 day	7D Conc	15.0	20.	7/22/2012