



**Environmental
Protection Agency**

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

Re: Ottawa County
Middle Bass Island
Lake Erie Utilities
NPDES Permit

August 24, 2010

Mr. James Arvin, President
Lake Erie Utilities Company
P.O. Box 29
Middle Bass Island, Ohio 43446

Dear Mr. Arvin:

On August 2, 2010 an inspection was made of the Lake Erie Utilities wastewater treatment facilities. At the time of my visit, both plants were in service and a clear final effluent was observed being discharged to the lagoon. My comments and recommendations on the individual plants are as follows:

New Plant – All components were in operation and a clear final effluent was observed in the contact tank. The skimmers appeared to be plugged as the clarifier surface was scum and duckweed covered. The four sand filters were acceptable with only moderate weeds present. Tablets were present in both the chlorine and dechlorination tube feeders.

Old Plant – The clarifier continues to have problems which need addressed. The sludge collector system continues to be out of service, even though the sludge returns are in operation. The effluent weir needs to be cleaned as well as the excessive buildup behind the clarifier baffle. Due to its age, this facility is in need of greater attention. I recommend the flow splitting device be adjusted to direct the majority of flow to the newer plant.

A review of NPDES permit monthly discharge monitoring reports since my last inspection indicate effluent violations of total suspended solids in May and June. Enclosed is a list of violations to review with your operator.

Your NPDES permit expires on October 31st and we have received your renewal application. I'm still concerned with excessive clean water infiltration/inflow (I/I) entering the collection system. This problem was identified in prior inspections, and to the best of my knowledge all I/I reduction efforts have ceased. It's clear that a regular program of collection system I/I removal needs to be reestablished. I will be closely monitoring this situation, as it will be an issue in the next NPDES permit renewal.

Mr. James Arvin
August 24, 2010
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You will be receiving a draft copy of the permit in the near future. You should review it carefully, as there is a 30 day comment period to respond to any permit conditions.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'R. A. Zuzik', is written over a horizontal line. The signature is somewhat stylized and includes a circled 'Z'.

Richard A. Zuzik, MSE
Division of Surface Water

/lb

pc: Eastwood Environmental
Ottawa County Health Department
~~NWDO file~~

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION

NPDES Permit No. 2PR 00057

Facility Name Lake Erie Utilities Expiration Date 10-31-10

Facility Address Pleasant Place & Lake Rd Date 8-2-10 Time 10⁰⁰ am (pm)

City Middle Bass Island County Ottawa Township PIB

Name and Address of Owner LEU, James Arvin, Pres.

Person Contacted - Owner Phone (330) 606-3723

Flow: Design 62,000 GPD Present GPD (metered - estimated)

Trib. Pop. 175 homes, MBI State Park (actual - estimated) Weather at time of inspection: Temp 85° Clear

OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No. (Blended) -> Lagoon

No.	Severity Description	No.	Turbidity	No.	Odor	No.	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: Lagoon 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 (I/I)
 (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 (1/10 - 7/10)

4. ✓ Compliance with NPDES Permit
 Periodic Violations Y N Parameters: TSS
 Chronic Violations

5. Adequate plant safety
 6. Operation and Maintenance Service

Name Castwood Env / Ken Geiger
 Frequency of Visits Castwood - Weekly
Geiger - daily

Facility Name: LEU

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency
		Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	1	Flow Equalization / <i>FLOW SPLITTER</i>	<i>IN</i>
Aeration Equipment		Plant Timer <u> </u> Y <u> </u> N Motor / Blower Unit	Cycle Time:
Secondary Treatment		Aeration Tank	Color: <i>Brown</i> Adequate Aeration <i>Y</i> <u> </u> N
Final Settling <i>OLD - 30,000 GPD</i> <i>New - 32,000 GPD</i>		Clarifier	<i>Flits Collector - OUT in OLD</i> <i>Slum Buildup behind baffle</i>
		Sludge Return	In <input checked="" type="checkbox"/> Out
		Surface Skimmer	In <input type="checkbox"/> Out <input checked="" type="checkbox"/> (<i>NEW</i>)
		Fixed Media Clarifier	
Tertiary Treatment	4	Surface Sand Filter	
		Polishing Pond	<i>Mild weed buildup</i>
		Other	
Disinfection	2	Contact Tank	<i>New - clear</i> <i>old - Turbid</i>
	2	Chlorine Tube Feeder	<i>IN</i>
	2	Dechlorination Tube Feeder	<i>IN</i>
		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		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

1/10 - 7/10

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00057*ED	May 2010	001	00530	Total Suspended Solids	30D Qty	2.82	3.01135	5/1/2010
2PR00057*ED	May 2010	001	00530	Total Suspended Solids	1D Qty	4.22	4.90536	5/20/2010
2PR00057*ED	June 2010	001	00530	Total Suspended Solids	30D Qty	2.82	6.0244	6/1/2010
2PR00057*ED	June 2010	001	00530	Total Suspended Solids	1D Qty	4.22	21.5835	6/24/2010