



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 Korleski, Director

Re: Ottawa County
Lake Erie Utilities
NPDES No. 2PR00057

September 24, 2007

Mr. James Arvin, President
Lake Erie Utilities Company
South Bass Island, Ohio 43446

Middle

Dear Mr. Arvin:

On August 14, 2007, an inspection was made of the Lake Erie Utilities wastewater treatment plant. At the time of my visit, the 32,000 gpd plant expansion was still under construction. All the tanks and sand filter walls have been set, and much of the electrical work completed. A clear final effluent was observed being discharged from the older steel plant; however, it appeared the sludge collector was out of service. This should be checked as soon as possible. Also, there were no disinfection or dechlorination tablets in the tube feeders. Disinfection season ends October 31.

A review of NPDES monthly operating reports since 11/1/05, the effective date of the permit renewal permit indicates periodic concentration and loading violations of suspended solids, BOD 5, and ammonia. (enclosed) Concentration limits of your permit were lowered to reflect the addition of tertiary treatment surface sand filters; however, loading limits were still exceeded even though they are based on 62,000 gpd. This would indicate a substantial volume of excessive clean water infiltration/inflow (I/I) entering the collection system. This problem was identified in prior inspections. Mr. Hill stated that I/I worked had ceased. It's clear that a regular program of collection system I/I removal needs to be reestablished as chronic NPDES loading violations can lead to formal enforcement action from this agency. Please inform me of your plans to address this issue within 14 days of the date of this letter.

Enclosed is our completed inspection report. If 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

/lir

pc: Brant Hill, Lake Erie Utilities
Ottawa County Health Department
DSW=NWDO-File

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PR00057

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

Facility Address 767 Pleasant Place Lak. OH Date 8-14-07 Time 2:30 am pm

City Middle Bass OH County Cts Township Pt-n-Bay

Name and Address of Owner Lake Erie Utilities Hill, OH

Person Contacted None Owner Phone (419) 233-2002

Flow: Design 30,000 GPD Present None GPD (metered - estimated)

Trib. Pop. 85 homes (actual - estimated) Weather at time of inspection: Temp 85 ° Cloudy

OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

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

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

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

d. Not operating at expected efficiency due to:

- (1) _____ hydraulic overload
 (2) _____ organic/ solids overload
 (3) _____ personnel inefficiency
 (4) _____ equipment failure
 (5) _____ wastes
 (6) Expansion water distribution
to serve new home/commercial

Disinfection: (Required May 1 thru Oct.31.)

IN	OUT	
_____	<input checked="" type="checkbox"/>	Chlorination Tablets
_____	<input checked="" type="checkbox"/>	Dechlorination Tablets
_____	_____	U.V.

Yes No

4. Compliance with NPDES Permit

Periodic Violations Y N Parameters: TSS, BOD, Ammonia

Chronic Violations _____

5. Adequate plant safety to under construct

6. Operation and Maintenance Service Name Hill

Frequency of Visits _____

Facility Name: L.E.U.

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. <u> </u> Y. <u> </u> N	Cycle Time:
	1	Motor/ Blower Unit	
Secondary Treatment	1	Aeration Tank	Color: <u>Choc. Brown</u> Adequate Aeration: Y. <u> </u> N <u> </u>
Final Settling	1	Clarifier	<u>flite collector out of service</u>
	1	Sludge Return	In <input checked="" type="checkbox"/> Out
	1	Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment		Surface Sand Filter	
		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)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	<u>IN</u>
		Spray Irrigation	
		Other	

LEU 11/1/05 - 7/28/07

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	LimitType	Limit	Reported Value	Violation Date
2PR00057*ED	October 2006	001	00530	Total Suspended Solids	7D Conc	18	20.	10/15/2006
2PR00057*ED	July 2006	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	3.1	7/1/2006
2PR00057*ED	July 2006	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	6.2	7/1/2006
2PR00057*ED	July 2006	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.23	.25344	7/1/2006
2PR00057*ED	July 2006	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.35	.50689	7/1/2006
2PR00057*ED	May 2007	001	00530	Total Suspended Solids	7D Conc	18	28.	5/1/2007
2PR00057*ED	May 2007	001	00530	Total Suspended Solids	30D Qty	2.82	4.48125	5/1/2007
2PR00057*ED	May 2007	001	00530	Total Suspended Solids	7D Qty	4.22	13.7350	5/1/2007
2PR00057*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.5	5/1/2007
2PR00057*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	3.	5/15/2007
2PR00057*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.23	.27593	5/1/2007
2PR00057*ED	May 2007	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.35	.55185	5/15/2007
2PR00057*ED	May 2007	001	80082	CBOD 5 day	7D Conc	15	18.	5/1/2007
2PR00057*ED	May 2007	001	80082	CBOD 5 day	30D Qty	2.35	3.69435	5/1/2007
2PR00057*ED	May 2007	001	80082	CBOD 5 day	7D Qty	3.52	8.82965	5/1/2007
2PR00057*ED	May 2007	001	80082	CBOD 5 day	7D Qty	3.52	5.3959	5/8/2007
2PR00057*ED	July 2007	001	00530	Total Suspended Solids	7D Conc	18	20.	7/1/2007