



**Environmental  
Protection Agency**

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

Re: Richland County  
Sites Lake Cottage Area  
NPDES Permit

May 10, 2012

Mr. Gary Taylor  
Muskingum Watershed Conservancy District  
1319 Third Street Northwest  
P.O. Box 349  
New Philadelphia, Ohio 44663

Dear Mr. Taylor:

On May 2, 2012, an inspection was made of the wastewater treatment facilities serving the Sites Lake cottage area, Mifflin Township, Richland County. The cottage area is located on the south side of U.S. 30, approximately one mile west of the Richland/Ashland county line. The wastewater treatment plant (WWTP) is located on the north side of U.S. 30 and is accessed from a gravel lane off of Crider Road. You were present along with Tim Parks to answer questions regarding the plant operations.

At the time of the inspection, all of the treatment units were online. A clear final effluent was observed at the outfall. A few recommendations were made regarding the treatment plant operations. The trash trap has yet to be pumped since the plant went into service. We recommend that the trash trap be pumped at least once per year. Tim mentioned that the flows being reported are taken from the lift station near the subdivision. A more accurate place to estimate the flows are from the hour run meters on the sand filter dosing station. Tim stated that dried sludge from the surface sand filters is not currently taken to a landfill. Ohio's sewage sludge rules require this material to be taken to a sanitary landfill for disposal. We discussed providing a small dumpster onsite for the purpose of collecting dried sludge until it is worthwhile to drive to a landfill. The weight of this material should be reported on your annual sewage sludge report form.

During the inspection, you mentioned that the O&M manual has still not been completed by the contractor and engineer for the new treatment plant. This manual is extremely beneficial in proper operation of the plant. It should be requested and received from the contractor as soon as possible.

Mr. Gary Taylor  
May 10, 2012  
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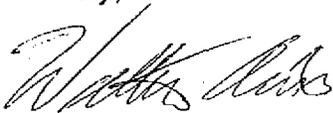
A review of the discharge monitoring reports submitted to our office for the months of April 2011 through March 2012 revealed several **violations** of the limits contained in your National Pollutant Discharge Elimination System (NPDES) permit. A printout of these **violations** has been included for your review. Please be aware that your facility is considered to be in significant non-compliance for continued violations of the TSS limit in the permit.

During the inspection, we discussed the need to clean sediment from the post aeration tank. The water in this tank contained excessive solids and fines that have washed off of the surface sand filters since they were placed in service. It is hoped that the cleaning of the post aeration tank will eliminate any accumulated solids in the tank and provide effluent samples that meet permit limits. It will be necessary for you to contact our office once the tank has been drained and cleaned. Please be aware that if compliance does not improve, our Agency may consider enforcement to attain compliance.

As we have discussed, the former sewage treatment lagoons need to be cleaned of all sludge. A compliance schedule is included in your NPDES permit to complete this cleaning. All sludge will need to be removed no later than February 1, 2013. You stated that money has been allocated in this year's budget for removal of the sludge.

If you have any questions, please call me at 419-373-3070.

Sincerely,



Walter Ariss, P.E.  
Environmental Specialist II  
Division of Surface Water

/jlm

Enclosures

pc: Mike Rekstis, Muskingum Watershed Conservancy District

ec: Gretchen Fickle, DEFA CO  
Inspection Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PP00049

Facility Name Sites Lake Cottage Area Expiration Date 7/31/16

Facility Address off Crider Road Date 5/2/12 Time 11:30 am

City Mansfield County Richland Township \_\_\_\_\_

Name and Address of Owner Muskingum Watershed Conservancy District

Person Contacted Gay Taylor Owner Phone \_\_\_\_\_

Flow: Design 45,000 GPD Present \_\_\_\_\_ GPD (metered - estimated)

Trib. Pop. \_\_\_\_\_ (actual - estimated) Weather at time of inspection: Temp 65° clouds

OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	X	Clear	X	None	X	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: Charles Hill Lake

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

3. a. Plant has \_\_\_\_\_ excellent X good \_\_\_\_\_ fair \_\_\_\_\_ poor operation  
 b. Plant has \_\_\_\_\_ excellent X good \_\_\_\_\_ fair \_\_\_\_\_ poor maintenance  
 c. Sand filters have \_\_\_\_\_ excellent X 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
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
<u>X</u>	_____ U.V.

Yes No

4. X Compliance with NPDES Permit

Periodic Violations X N NH3 Parameters:  
 Chronic Violations X TSS

5. X Adequate plant safety

6. X Operation and Maintenance Service Name Tim Parks

Frequency of Visits 3/week

Facility Name: Sites Lake

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: <i>not pumped since in service</i>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	X	Flow Equalization	<i>okay / adequate air</i>
Aeration Equipment		Plant Timer <u>Y</u> <u>X</u> N	Cycle Time:
	X	Motor/ Blower Unit <i>running</i>	
Secondary Treatment	X	Aeration Tank	Color: <i>good color</i> Adequate Aeration: <u>Y</u> <u>X</u> N
Final Settling	X	Clarifier	<i>good clarity</i>
	X	Sludge Return	In <u>X</u> Out
	X	Surface Skimmer	In <u>X</u> Out
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	<i>2 beds in use, 2 beds drying 2 clean</i>
		Polishing Pond	
		Other	
Disinfection		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	X	Ultraviolet (UV)	<i>on</i>
Flow Metering	X	Elapsed Pump Time	<i>using lift station near cottages, should use sand filter dosing</i>
		Recorder (continuous total)	
Pumps	X	<del>Raw Wastewater (type)</del> <i>Flow EQ</i>	<i>Geysier EQ - okay</i>
	X	Sand Filter Effluent Dosing	<i>okay</i>
Sludge Handling	X	Aerated Storage Tank	<i>3/4 full</i>
		Sludge Drying Bed	
Sludge Disposal ?		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	X	Post Aeration	<i>need to clean post air tank</i>
		Spray Irrigation	
		Other	

Get New Data

## Charles Mill Sites Lake NPDES permit limit violations April 2011 through March 2012

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PP00049*AD	April 2011	001	00530	Total Suspended Solids	30D Conc	12	38.	4/1/2011
2PP00049*AD	April 2011	001	00530	Total Suspended Solids	30D Qty	2.05	4.45873	4/1/2011
2PP00049*AD	April 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	24.	4/1/2011
2PP00049*AD	April 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.511	2.81604	4/1/2011
2PP00049*AD	April 2011	001	80082	CBOD 5 day	30D Conc	10	11.5	4/1/2011
2PP00049*AD	April 2011	001	00530	Total Suspended Solids	1D Conc	18	38.	4/4/2011
2PP00049*AD	April 2011	001	00530	Total Suspended Solids	1D Qty	3.07	4.45873	4/4/2011
2PP00049*AD	April 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	24.	4/4/2011
2PP00049*AD	April 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.767	2.81604	4/4/2011
2PP00049*AD	May 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	4.76	5/1/2011
2PP00049*AD	May 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.171	.48645	5/1/2011
2PP00049*AD	May 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	4.76	5/2/2011
2PP00049*AD	May 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.256	.48645	5/2/2011
2PP00049*BD	August 2011	001	31648	E. coli	30D Conc	126	140.	8/1/2011
2PP00049*BD	August 2011	001	00530	Total Suspended Solids	30D Conc	12.0	19.	8/1/2011
2PP00049*BD	August 2011	001	00530	Total Suspended Solids	30D Qty	2.05	2.44511	8/1/2011
2PP00049*BD	August 2011	001	00530	Total Suspended Solids	7D Conc	18.0	29.6	8/15/2011
2PP00049*BD	August 2011	001	00530	Total Suspended Solids	7D Qty	3.07	3.80922	8/15/2011
2PP00049*BD	September 2011	001	00530	Total Suspended Solids	30D Conc	12.0	19.	9/1/2011
2PP00049*BD	September 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	3.96	9/1/2011
2PP00049*BD	September 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	7.87	9/1/2011
2PP00049*BD	September 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.171	.35973	9/1/2011
2PP00049*BD	September 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.256	.71491	9/1/2011
2PP00049*BD	September 2011	001	00530	Total Suspended Solids	7D Conc	18.0	20.	9/15/2011
2PP00049*BD	October 2011	001	00530	Total Suspended Solids	30D Conc	12.0	20.	10/1/2011
2PP00049*BD	October 2011	001	00530	Total Suspended Solids	7D Conc	18.0	22.	10/1/2011
2PP00049*BD	November 2011	001	00530	Total Suspended Solids	30D Conc	12.0	20.4	11/1/2011
2PP00049*BD	November 2011	001	00530	Total Suspended Solids	7D Conc	18.0	32.	11/1/2011
2PP00049*BD	November 2011	001	00530	Total Suspended Solids	7D Qty	3.07	3.14912	11/1/2011
2PP00049*BD	January 2012	001	00530	Total Suspended Solids	7D Conc	18.0	22.	1/8/2012
2PP00049*BD	March 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	4.84	3/15/2012