



**Environmental
Protection Agency**

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

June 29, 2012

Mr. Casey Warner, President
Pine Lake Estates
565 Ross Road
Lancaster, OH 43130

**Re: Pine Lake Estates
NPDES Permit 4PW00009/ OH0136387
Compliance Evaluation Inspection
Fairfield County
Notice of Violation**

Dear Mr. Warner:

On June 26, 2012, a Compliance Evaluation Inspection was conducted at the Pine Lake Estates WWTP. Present for the inspection were Tom Bouts, Contract Operator representing Pine Lake Estates and myself of the Ohio EPA, Central District Office, Division of Surface Water.

The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant. The facility shall address the items listed below by July 31, 2012:

- ❖ Sand filter sand contaminated with biosolids (i.e., "spent sand") has been dumped around the filter beds and on the ground near the WWTP (see attached photos). This is unacceptable. The facility must dispose of spent sand as a solid waste and not on the ground. The facility shall excavate the spent sand illegally dumped around the WWTP and properly dispose of it. In the future, spent sand shall be bagged or placed directly into a disposal container (e.g. dumpster).
- ❖ The facility shall install signage at the outfall as required by the NPDES permit.
- ❖ The facility shall provide a protected area to keep the operator log book for the WWTP. This book must be kept on site to allow for review at any time.
- ❖ Currently, chlorination and dechlorination chemicals are kept in buckets in an area accessible to anyone. The facility shall provide a secure area (locked storage box, fenced area, etc.) to store these chemicals.
- ❖ The facility shall install electrical motors into the new blowers to make them functional.

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Pine Lake Estates
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If you have any questions or comments concerning this **Notice of Violation**, please contact me at (614) 728-3854 or e-mail at paul.vandermeer@epa.ohio.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Vandermeer", with a long horizontal flourish extending to the right.

Paul L. Vandermeer
Environmental Specialist
Compliance and Enforcement Unit
Division of Surface Water
Central District Office

c: Tom Bouts, Operator, Pine Lake Estates WWTP

ec: Paul Vandermeer

PLV/nsm Pine Lakes Estates

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEMS CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PW00009	OH0136387	CEI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
6/26/2012	11:00 AM	11:40 AM	Yes	Yes

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Pine Lake Estates WWTP 565 Ross Road Lancaster, OH 43130	7/1/2011
	Permit Expiration Date
	6/30/2016
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Tom Bouts, Contract Operator	(614) 429-7811
Name and Title of Responsible Official	Phone Number
Casey Warner, President	(740) 653-3877

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
M	NPDES Compliance	Facility has been in compliance with permit limits since July, 2011. SNC for bacteria in May and June 2011.
M	Operations & Maintenance	"Spent" filter sand has been disposed inappropriately.
M	Facility Site Review	See above
S	Collection System	Work continuing to reduce I&I
S	Flow Measurement	Confirm pump rating sometime before 1/1/2013.
M	Receiving Waters	Signage has not been installed.
S	Laboratory	MASI Laboratory for all but pH, D.O., temp., and Cl

Comments:

Signatures			
	6/28/12		6/28/12
Paul L. Vandermeer, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Date	Mike Gallaway, Reviewer Section Manager Division of Surface Water Central District Office	Date

Compliance Data for Pine Lake Estates WWTP between 7/1/2011 to 6/1/2012

Summary

Permit Effluent Limit Violations: 0
 Permit Effluent Code Violations: 0
 Permit Effluent Frequency Violations: 0
 Compliance Schedule Violations: 0

Flow Data for Pine Lakes Estate No 1 between 7/1/2011 and 6/1/2012

	Date	Flows (MGD)
Ten Highest Flows	3/15/2012	0.024
	3/16/2012	0.024
	3/17/2012	0.024
	3/18/2012	0.024
	3/19/2012	0.024
	3/20/2012	0.022
	3/21/2012	0.022
	3/22/2012	0.022
	3/23/2012	0.022
	3/24/2012	0.022
Average Flow Rate		0.009

Method of flow monitoring:	<i>Pump timer from dosing tank pump^</i>
Type of alarms for plant:	<i>Visual and audible</i>

SECTION D: PRELIMINARY TREATMENT

Type of Preliminary Treatment? <i>Trash Trap</i>		
	Yes	No
Does the unit require pumping or cleaning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maintenance of preliminary treatment is satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: *Trash trap is pumped occasionally, but generally kept more than half full to enable satisfactory treatment. Trash trap should be pumped down in the near future. ^The flow rating from the dosing tank pump shall be reevaluated (calibrated) by the end of 2012 with the results submitted to Paul Vandermeer. This should be performed on an annual basis from now on.*

SECTION E: AERATION

Color of MLSS?	Milk chocolate brown			
	Yes	No	Yes	No
Aeration is taking place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>
Blowers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer*	<input type="checkbox"/>
Skimmers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input checked="" type="checkbox"/>
Diffusers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input checked="" type="checkbox"/>
Sludge return is operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foam present?	<input checked="" type="checkbox"/>
Overall maintenance satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

Comments/Status: *Blowers run 24/7. Facility should install blower motors by July 31, 2012.

SECTION F: CLARIFIERS

Clarity of water topping weir	Clear	
	Yes	No
Weir is clean?^	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Weir is in good condition (i.e., level, free of corrosion, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is effluent present in weir channel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the sludge blanket visible?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do the clarifier walls need scraping?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is sludge settling properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall maintenance of the clarifier is satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: ^Clarifier weir seems to clog quickly. Skimmer operates continually to keep foamy solids controlled. If skimmer is turned off, solids would slowly overwhelm weir. Operator cleans weir regularly, generally at each visit. *Some foamy solids were present and prevented observation of sludge blanket.

SECTION G: TERTIARY TREATMENT

	Yes	No		Yes	No
Surface sand filters:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Subsurface/Upflow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Distribution box operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sand Filters alternated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are filters ponding/flooding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Beds raked	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination present*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UV present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dechlorination present*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall maintenance satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: Upflow filters seem to remove most of the solids carry-over from the clarifier as per communication from the contract operator. The weir in the upflow filter was clean and free of solids. Sand beds do not have a great deal of solids and drain satisfactorily. The sand beds are well maintained with no vegetation. *Storage of

chlorination and dechlorination chemicals should be in a secure area (e.g., locked storage box, fenced area, etc.). Currently, buckets of chemicals are sitting out in the open and accessible to anyone.

SECTION H: SLUDGE HANDLING / STORAGE

Sludge is periodically wasted from what component?	<i>Holding tank</i>	
Sludge disposal contractor?	<i>Wheeler's Sludge Disposal</i>	
Sludge disposal location?	<i>Wheeler's Sludge Disposal</i>	
	Yes	No
Does the WWTP have sludge drying beds?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the WWTP have a sludge holding tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the maintenance on the sludge handling unit adequate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status:

SECTION I: RECORD KEEPING / OPERATOR OF RECORD

	Yes	No
Operator of Record holds unexpired license of class required by Permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Operator of Record submitted an ORC Notification form?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Copy of certificate of Operator of Record displayed on-site?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If a Staffing Reduction plan has been approved, are the stipulations of the plan being met?	<input type="checkbox"/>	<input type="checkbox"/>
Operator of Record log book provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum operator staffing requirements fulfilled (OAC 3745-7)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Log book kept onsite (in an area protected from weather)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log book contains the following:		
Identification of treatment works	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Laboratory results (unless documented on bench sheets)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Identification of person making entries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Logbook Format	<i>Computer log</i>	<i>Bound book</i>

Comments/Status: *Facility is completely out of doors. There is no place to display the operator certificate. ^Operator log book must be kept on-site in a protected area.

SECTION J: PLANT DISCHARGE

Discharge point is:	<i>Unnamed tributary to Hocking River</i>
Discharge is visible:	<i>Yes</i>
Name of discharge point:	<i>001</i>
Marker present:	<i>No. Marker shall be installed by July 31, 2012.</i>
Quality of effluent:	<i>Good</i>
Contract laboratory:	<i>MASI</i>

Comments/Status:

Photographs

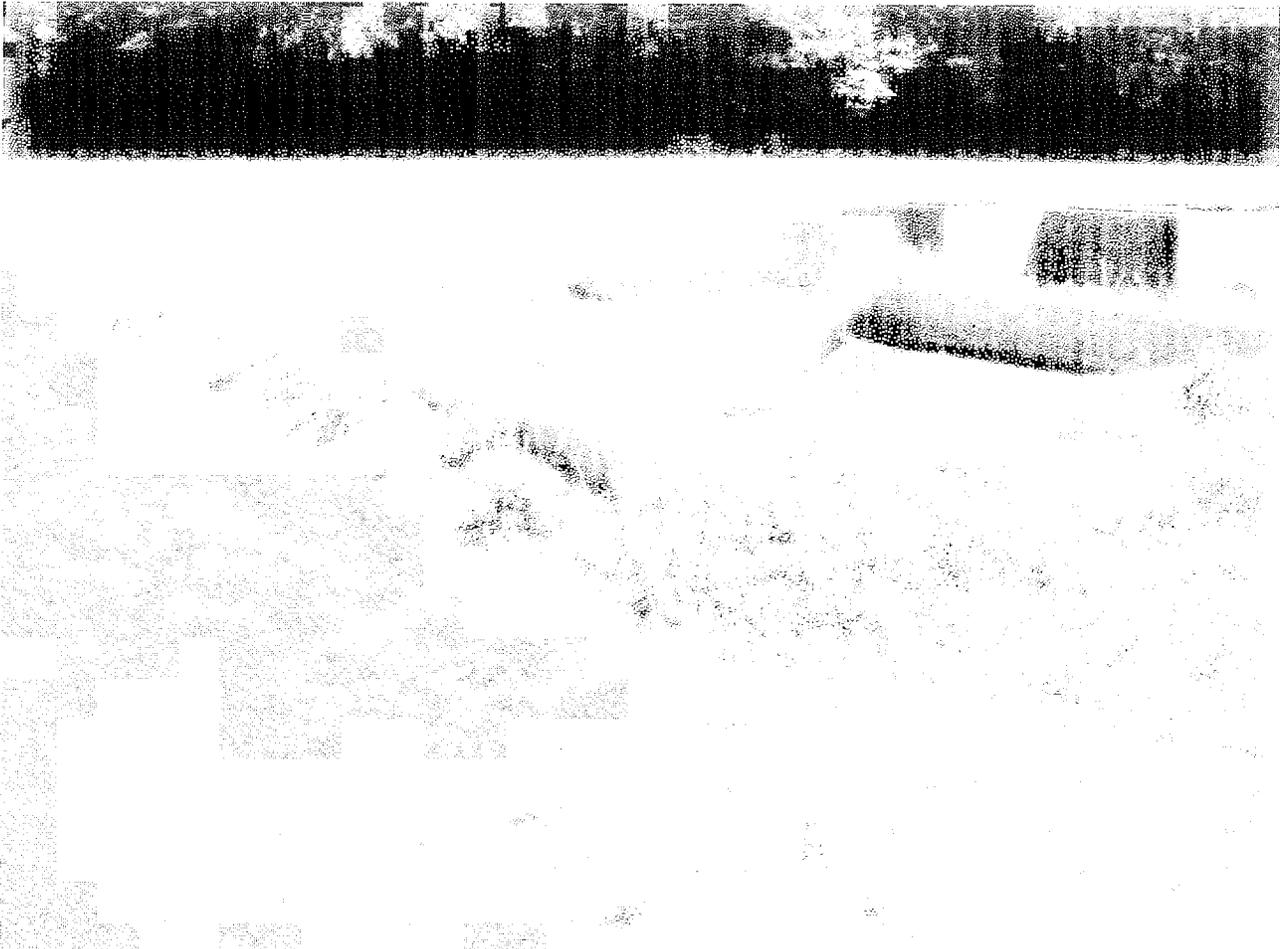


Figure 1. Spent filter sand deposited along the wall of the sand filters.



Figure 2. Spent filter sand deposited on the ground between the WWTP and the stream.