

April 30, 2013

Gerard Layton
Winding Creek Estates
169 Dayton Road
Newark, OH 43055

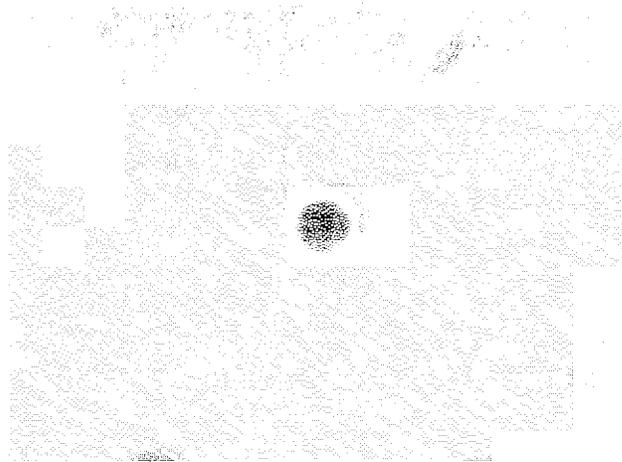
**Re: Winding Creek Estates
NPDES Permit 4PV00124/ OH0136344
Compliance Evaluation Inspection
Licking County**

Dear Mr. Layton:

On April 25, 2013, a compliance evaluation inspection was conducted at the Winding Creek Estates wastewater treatment plant. Present for the inspection were Joe Hickman, contract operator for Winding Creek 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 following concerns were noted during the inspection:

- ❖ The 2 influent pumps were both burned out. A replacement pump has been providing satisfactory service for some time now, but is powered by an extension cord. The owner shall ensure that this pump is powered via a permanent electrical connection and cease using the extension cord. Additionally, it may be prudent to investigate why the influent pumps are failing and take corrective action to ensure more reliable operation.
- ❖ Several sewer pipe laterals (white PVC risers, see photo) serving unoccupied pads in the park were not capped, or were improperly covered. The owner shall ensure that each unoccupied pad sewer riser pipe is properly capped to prevent the introduction of storm water, debris, or vermin into the collection system. A screw-type cap or expandable plug are appropriate solutions. Simply covering the opening with an unsecured item like a stone or brick is not acceptable.



- ❖ The chlorine residual violations in 2012 were generally due to the changes in ownership and operator of record during that time. The current operator has assured me that he will be diligent in maintaining adequate numbers of dechlorination tablets in the disinfection system in order to prevent further violations of chlorine residual like those seen last summer.
- ❖ Reporting problems that were experienced last summer were due to changeover in ownership and operator of record. The current operator has the needed authorization to enter data into eDMR, so these violations have since disappeared.

Please complete the needed repairs or updates noted above by May 31, 2013 and submit photographic evidence of each to the e-mail address listed below. If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3854 or e-mail at paul.vandermeer@epa.state.oh.us.

Sincerely,

Handwritten signature of Paul L. Vandermeer.

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

c: Joe Hickman, Contract Operator

ec: Paul L. Vandermeer

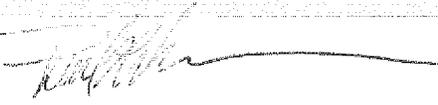
NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING				
Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PV00124	GH0106344	CEI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
4/25/2013	11:15 am	11:55 am	No	No

SECTION B: FACILITY DATA	
Name and Location of Facility Inspected	Permit Effective Date
Winding Creek Estates S.R. 79, S. of Hickman Newark, OH	2/1/2013
	Permit Expiration Date
	1/31/2018
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Joe Hickman, Contract Operator	(740) 814-7342
Name and Title of Responsible Official	Phone Number
Gerard Layton, Owner	

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
M	NPDES Compliance	Issues with chlorine residual and reporting seem to have been resolved.
S	Operations & Maintenance	
S	Facility Site Review	
M	Collection System	Secure sewer riser caps needed for empty pads.
S	Flow Measurement	
S	Receiving Waters	
S	Laboratory	

Comments:

Signatures			
			4/29/13
Paul L. Vandermeer, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Date	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office	Date

Compliance Data for Winding Creek Estates between 5/1/2012 to 4/1/2013

Summary

Permit Effluent Limit Violations: 8
 Permit Effluent Code Violations: 0
 Permit Effluent Frequency Violations: 18
 Compliance Schedule Violations: 0

Limit Violation						
Reporting Period	Station	Parameter	Test Frequency	Expected Value	Reported Value	Violation Date
Jun 2012	001	Chlorine, Total Residu	1D Conc	0.019	0	6/24/2012
July 2012	001	Total Suspended Solids	30D Conc	12	15	7/11/2012
July 2012	001	Chlorine, Total Residu	1D Conc	0.019	.06	7/18/2012
August 2012	001	Chlorine, Total Residu	1D Conc	0.019	.05	8/1/2012
August 2012	001	Chlorine, Total Residu	1D Conc	0.019	.06	8/15/2012
August 2012	001	Chlorine, Total Residu	1D Conc	0.019	.05	8/22/2012
September 2012	001	Chlorine, Total Residu	1D Conc	0.019	.05	9/12/2012
September 2012	001	Chlorine, Total Residu	1D Conc	0.019	.06	9/19/2012

Frequency Violations						
Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
May 2012	001	Color, Severity	1/Day	1	0	5/1/2012
May 2012	001	Odor, Severity	1/Day	1	0	5/1/2012
May 2012	001	Turbidity, Severity	1/Day	1	0	5/1/2012
July 2012	001	Color, Severity	1/Day	1	0	7/26/2012
July 2012	001	Odor, Severity	1/Day	1	0	7/26/2012
July 2012	001	Turbidity, Severity	1/Day	1	0	7/26/2012
August 2012	001	Color, Severity	1/Day	1	0	8/30/2012
August 2012	001	Odor, Severity	1/Day	1	0	8/30/2012
August 2012	001	Turbidity, Severity	1/Day	1	0	8/30/2012
September 2012	001	Color, Severity	1/Day	1	0	9/13/2012
September 2012	001	Odor, Severity	1/Day	1	0	9/13/2012
September 2012	001	Turbidity, Severity	1/Day	1	0	9/13/2012
September 2012	001	Color, Severity	1/Day	1	0	9/29/2012
September 2012	001	Odor, Severity	1/Day	1	0	9/29/2012
September 2012	001	Turbidity, Severity	1/Day	1	0	9/29/2012
September 2012	001	Color, Severity	1/Day	1	0	9/30/2012
September 2012	001	Odor, Severity	1/Day	1	0	9/30/2012
September 2012	001	Turbidity, Severity	1/Day	1	0	9/30/2012

Flow Data for Winding Creek Estates between 5/1/2012 and 4/1/2013

	Date	Flows (GPD)
Sept	12/25/2012	8000
	12/26/2012	8000
	12/18/2012	7000
	12/29/2012	7000
	12/30/2012	7000
	1/31/2012	7000
Per	1/13/2012	6000
	12/24/2012	6000
	12/27/2012	6000
	12/28/2012	6000
Average Flow Rate		2187

Method of flow monitoring:	<i>Potable Water Usage</i>
Type of alarms for plant:	<i>Visual</i>

SECTION D: PRELIMINARY TREATMENT

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

Comments/Status:

SECTION E: AERATION

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

Comments/Status: *Blower timer, 6 hours on, 15 minutes off, blower motors are alternated as well. Oil in blower motors is changed regularly every 6 months.*

SECTION F: CLARIFIERS

Clarity of water topping weir	Clear	
	Yes	No
Weir is clean?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weir is in good condition (i.e., level, free of corrosion, etc.)?	<input 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: *Settleometer showed very good settling characteristics. No significant pin floc, or other slow settling materials noted.*

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"/>	Beds 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"/>			

Frequency of cleaning: *Sand beds are cleaned as needed. Weed suppression is ongoing.*

Fixed media upkeep: *Cleaned at least once per month, or more frequently as needed.*

Comments/Status: *Chlorination and dechlorination chemicals are unsecured. The owner shall provide a secure location to prevent unauthorized access to these dangerous chemicals. A locking box of some kind should be sufficient for this purpose.*

SECTION H: SLUDGE HANDING / STORAGE DISPOSAL

Sludge is periodically wasted from what component?	Aerobic Digester	
Sludge disposal contractor?	AI's Septic Disposal	
Sludge disposal location?	Newark WWTP	
	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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" 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	Computer log	Bound book

Comments/Status: **Bench sheets are used to record temperature, pH, and D.O.*

SECTION J: PLANT DISCHARGE

Discharge point is:	<i>Wilkins Run</i>
Discharge is visible:	<i>Yes</i>
Name of discharge point:	<i>001</i>
Marker present:	<i>Yes</i>
Quality of effluent:	<i>Clear, appears to be good quality</i>
Contract laboratory:	<i>MASI Laboratory</i>

Comments/Status: *Operator has resolved issues with eDMR reporting that caused the problems with frequency violations of color, odor and turbidity in 2012.*