



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

August 7, 2013

Mr. Roger Ware, Regional Manager  
Harmony Estates Mobile Home Park  
1136 Big Hill Road  
South Charleston, OH 45368

**RE: Harmony Estates MHP WWTP – Compliance Evaluation Inspection  
Self Monitoring Reports Compliance Evaluation – January through June 2013  
NPDES No. 1PV00007\*DD/OH0049603, Clark County  
Notice of Violation**

Dear Mr. Ware:

On July 30, 2013, I conducted an inspection at Harmony Estates MHP located at 1136 Big Hill Road, South Charleston, Ohio. Robert Armstrong (Winelco) was representing the park. The Tertiary Treatment (sand filters) area was rated as unsatisfactory. All other areas that were evaluated were rated as satisfactory. Details regarding the inspection may be obtained from the enclosed report.

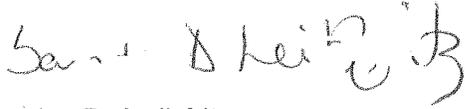
There are two items that require a response. We ask for a response, in writing, to the items below as follows:

1. The alarm light to the EQ basin and the dosing chamber needs a new light bulb. No later than August 30, 2013, replace the bulb to the alarm systems and provide a written SOP for checking the alarm systems (adding it to a checklist, entering it into the O&M log or etc.) to ensure they are functioning properly. The functionality of the alarm system should be checked on a weekly or monthly basis.
2. The walls to four of the sand filters have deteriorated and need to be rehabilitated or replaced. The mortar between the concrete block is chipping and falling out between the blocks. There are cracks in the block and approximately 30-40% of the waterproof that was sprayed onto the block has worn off. Repairs to the sand filter must adhere to the design standard in Ohio EPA's Sewage: Collection, Treatment & Disposal (ed. 1993). No later than October 31, 2013, provide written notification that the walls to the sand filters have been rehabilitated or replaced. Ohio EPA will conduct a final inspection to ensure that it adheres to Ohio EPA's criteria.

Mr. Roger Ware  
Harmony Estates MHP  
August 7, 2013  
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If you should have any questions about the inspection, please call me at (937) 285-6104.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sandra D. Leibfritz".

Sandra D. Leibfritz  
Environmental Specialist  
Division of Surface Water

SL/kb

ec: Clark County Health Department  
Robert Armstrong, Winelco



State of Ohio Environmental Protection Agency  
Southwest District Office

NPDES Compliance Inspection Report  
Semi-Public Sewage Disposal Inspection Form

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
1PV00007*DD	OH0049603	07/30/2013	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Harmony Estates Mobile Home Park 1136 Big Hill Road South Charleston, OH 45368	9:15 a.m.	November 1, 2010
	Exit Time	Permit Expiration Date
	10:15 p.m.	October 31, 2015
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
None.		
Name(s), Address and Title(s) of Operator of Record	Phone Number(s)	
Winelco, Contract Operator Robert Armstrong 6141 Centre Park Drive West Chester, OH 45069	(513) 755-8050 (Winelco) (513) 317-8672 (Armstrong)	
Name, Address and Title of Responsible Official	Phone Number	
Roger Ware, Regional Manager Moore Enterprises 290 Estates Lane Reynoldsburg, OH 43068	(614) 864-0235	

Ohio EPA Inspector	Ohio EPA Reviewer
 Sandra D. Leibfritz Division of Surface Water Southwest District Office	 Joe Miller Permits Supervisor Division of Surface Water Southwest District Office
8/1/2013 Date	8/17/13 Date

Permit #: 1PV00007\*CD  
NPDES #: OH0049603

Average Daily Design Flow:	<b>5 0,000 Gallons/Day</b>
Plant Serves:	<b>169 lots</b>
Average Daily Flow: (Period of Review):	<b>0.024 MGD January 2012 through December 2012</b>
Method of flow monitoring:	<b>Hour Meter on Dosing Pumps</b>
Type of alarms for plant:	<b>Visual</b>

**Comments/Status:**

The wastewater treatment plant consists of an equalization basin (grinder pumps), aeration tanks, clarifiers, a dosing chamber, slow surface sand filters, uv disinfection and a sludge holding tank.

The WWTP is checked weekly by Winelco, the operator of record. Daily checks are the responsibility of the facility

**Equalization Basin**

Two Pumps present: **Yes**  
Both Pumps operational: **Yes**  
Alarm present: **Yes**  
Alarm operational: **No**  
Maintenance of equalization basin is: **Satisfactory**

**Comments/Status:**

The alarm is visual. The basin is aerated. There is a dedicated blower for the EQ basin. There is a manhole between the EQ basin and the aeration tanks where the flow enters the WWTP. All flow from the collection system is directed to the EQ basin. There are two grinder pumps in the EQ basin. The pumps are alternated. There is a gravity overflow from the EQ basin to the aeration tank. The light on the alarm system is not working.

**Pretreatment**

Type of Pretreatment: **None**  
Does the Trash Trap need pumped: **N/A**  
Maintenance of pretreatment components is: **N/A**

**Comments/Status:**

**Secondary Treatment  
 (Aeration)**

Color of sludge: **Dark Brown**  
 Quality of Sludge: **Heavy**  
 Foam: **None present**  
 Odor: **No objectionable odor present**

	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 operating (2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Skimmers are operating (2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sludge return is operating (4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating condition: N/A		

Maintenance of aerating equipment is...**Satisfactory**

**Comments/Status:**

The skimmers were operating. There are 4 RAS lines. The 2 RAS lines discharging to the head of the aeration tank were returning dark brown solids. The 2 RAS lines discharging near the outlet of the aeration tank were returning light brown solids. The operator wastes solids when the 2 RAS lines near the outlet begin to discharge dark brown solids which is indicative of 4% solids. The blowers are alternated and they run 24 hours 7 days a week.

**Secondary Treatment  
 (Settling)**

Clarity: **Clear with Pin Floc**  
 Condition of Weir: **Excessive Algae/Solids Build Up**  
 Weir is level: **Yes**  
 Effluent in weir: **Light Solids**  
 Clarifier walls need scraped: **No**

Overall maintenance of settling components is: **Satisfactory**

**Comments/Status:**

There was scum and solids build-up behind the inlet baffle.

	Tertiary Treatment				
	Yes	No		Yes	No
Surface sand Filters: <b>Slow (6)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Subsurface</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Distribution box operating	<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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ultraviolet disinfection present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dechlorination present	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Overall maintenance of components is: **Marginal**

**Comments/Status:**

There are 6 slow surface sand filters. Four of the sand filters are in need of repair/rehabilitation. The mortar between the concrete block is chipping and falling out between the block. There are cracks in the block. Approximately 30 to 40% of the waterproofing that was sprayed onto the block has worn off. All were weed free. The filter media appeared to be a little coarse; however, it does not seem to affect compliance with the final effluent limits. There were little to no solids on the surface of the sand filters. The solid/sand mixture is placed in a dumpster for final disposal at Waste Management. There are two pumps in the dosing chamber. Both pumps were operational. There is a visual alarm system on the dosing chamber. The alarm light was not working. There are hour meters on the pump to monitor flow. Both uv bulbs were operating.

**Sludge Handling/Storage Disposal**

Hauler name: **Acme Septic Services**  
 Disposal Site: **City of Springfield**  
 Sludge wasted from: **Clarifier**  
 How often is sludge wasted: **Weekly**  
 Sludge drying beds: **No**                      Sludge holding tank: **Yes**

Overall maintenance of components is: **Satisfactory**

**Comments/Status:**

Solids are wasted from the WWTP on a weekly to monthly basis to the sludge holding tank. The sludge is thickened by decanting the supernatant back to the plant. Sludge is hauled from the sludge holding tank by Acme Septic Services.

**Plant Discharge**

Discharge point is a: **Stream**  
 Name of discharge point: **Unnamed tributary of Beaver Creek**  
 Discharge is visible: **Yes**                      Quality of Effluent: **Clear**

**Comments/Status:**

The final effluent is clear. The receiving stream, both upstream and downstream of the outfall pipe, is similar. There was no odor emanating from the discharge.

**EFFLUENT LIMIT VIOLATIONS FOR OUTFALL 001  
(Period of Review: January through June 2013)**

7D = Weekly 30D = Monthly 1D = Daily Conc. = Concentration (mg/l) Qty. = Quantity (Kg/Day)

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
April 2013	Total Suspended Solids	7D Conc	12.0	15.	4/15/2013

**FREQUENCY VIOLATIONS FOR OUTFALL 001  
(Period of Review: January through June 2013)**

Reporting Period	Parameter	Sample Frequency	Expected	Reported	Violation Date
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**None Reported.**