



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Re: Huron County
Meadowbrook Estates MHP
NPDES Permit No. 2PY00054

November 15, 2007

Tom and Judith Reese, Owners
Meadowbrook Estates MHP
863 Peru-Olena Road
Norwalk, Ohio 44875

Dear Mr. and Mrs. Reese:

On November 7, 2007, I conducted an inspection of the wastewater treatment plant serving the Meadowbrook Estates Mobile Home Park (MHP). You were both present and provided information on the operation and maintenance of the plant. Meadowbrook Estates MHP is currently operating under National Pollutant Discharge Elimination System Permit (NPDES) No. 2PY00054*AD. At the time of inspection a mostly clear final effluent was being discharged from the plant. Our comments and recommendations are as follows:

1. At the time of the inspection the contents of the aeration tank were very light brown/grey and had no noticeable odor. The rate of aeration appeared adequate. Currently, the blower is operated 24 hours/day, seven days/week.
2. The clarifier effluent was mostly clear with some very light solids. The sludge return was operating and light brown water was being returned to the aeration tank.
3. It was indicated that disinfection is achieved by adding chlorine tablets to the clarifier weir. Dechlorination tablets are added to the feeder mounted in the small concrete tank downstream of the clarifier. However, no tablets were in place due to disinfection season recently ending.
4. Your NPDES permit contained a compliance schedule requiring that flow equalization, surface sand filters and dechlorination equipment be installed by May 1, 2005, which would enable your plant to meet the final effluent limits. A Permit to Install for these improvements was issued on January 5, 2007. These improvements have not yet been completed and you indicated that you hope to complete them next year. Please be aware that the PTI coverage will expire if construction has not been started within 18 months of its effective date.

This expiration date can be extended up to 12 months by submitting a written request that includes a brief explanation detailing the need for the extension. Your renewal NPDES permit will contain a new compliance schedule to complete these improvements within 12 months of the permit's effective date.

5. Monthly operating reports have been submitted as required by your NPDES permit. A review of these reports shows periodic violations of the Nitrogen Ammonia (NH₃), Total Suspended Solids and CBOD limits of your permit since the permit went effective in 2003. The completion of the plant upgrades should help improve the plant's ability to meet permit limits.

We have received your NPDES permit application and have begun drafting your renewal permit. A draft copy of the renewal permit should be sent to you in the next several weeks. You will have 30 days to review it and submit written comments. Please take the time to look it over and contact me at (419) 373-3003 or via email at andrew.gall@epa.state.oh.us with any questions or comments. A copy of our inspection report and permit violations have been included for your review.

Sincerely,



Andrew Y. Gall
Environmental Specialist II
Division of Surface Water

/lr

Enclosures

pc: Mr. Lonnie McGhee, w/enclosures
Huron County Health Department
~~DSW-NWDO w/enclosures~~

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PY00054

Facility Name Meadowbrook Estates MHP Expiration Date 10-31-2007

Facility Address 863 Peru - dene Rd. Date 11/7/07 Time 1:00 am (10m)

City Norwalk County Huron Township Bronson

Name and Address of Owner Tom and Judith Reese

Person Contacted SAME Owner Phone 419-668-9471

Flow: Design 7500 GPD Present _____ GPD (metered - estimated)

Trib. Pop. 37 Lots (actual - estimated) Weather at time of inspection: Temp 48° Cloudy/Windy

OEPA Personnel Andrew Gall District NWDO

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: Tributary of Cole Creek

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear	X	None	X	Colorless
1	Mild	X	Very light solids				
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
NA Sand filters have _____ excellent _____ 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	
_____	<u>X</u>	Chlorination Tablets
_____	<u>X</u>	Dechlorination Tablets
_____	_____	U.V.

Out of Season

4. Yes No Compliance with NPDES Permit

Periodic Violations X N Parameters: CBOD5, TSS, NH3

Chronic Violations _____

5. X Adequate plant safety

6. X Operation and Maintenance Service Name Lonnie McGhee

Frequency of Visits 1/month

Facility Name: Meadowbrook MHP

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	1	Plant Timer. ___Y___N Motor/Blower Unit	Cycle Time: Plant runs 24/7
Secondary Treatment	1	Aeration Tank	Color: <i>Brown/grey</i> Adequate Aeration: Y. <input checked="" type="checkbox"/> N. ___
Final Settling	1	Clarifier	
	1	Sludge Return	In <input checked="" type="checkbox"/> Out <i>New Geysse pumps installed</i>
	1	Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment <i>NA</i>		Surface Sand Filter	
		Polishing Pond	
		Other	
Disinfection <i>Out of Season</i>		Contact Tank	
		Chlorine Tube Feeder	<i>CL tablets added to weir</i>
		Dechlorination Tube Feeder	<i>Dechlor tabs added to tablet feed</i>
		Ultraviolet (UV)	<i>Mainted to discharge pipe</i>
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	2	Raw Wastewater (type)	<i>New ^{air lift} pumps installed last year</i>
	1	Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	1	Municipal POTW	<i>Trash trap and clarifier pumped each November</i>
		Landfill	
		Land Application	
Advanced Treatment <i>NA</i>		Post Aeration	
		Spray Irrigation	
		Other	



Meadowbrook MHP Permit Limit Violations 11/6/2007

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PY00054*AD	August 2004	001	00300	Dissolved Oxygen	1D Conc	5.0	4.	8/25/2004
2PY00054*AD	June 2004	001	00300	Dissolved Oxygen	1D Conc	5.0	3.	6/23/2004
2PY00054*AD	August 2005	001	00530	Total Suspended Solids	30D Conc	12	46.	8/1/2005
2PY00054*AD	August 2005	001	00530	Total Suspended Solids	30D Qty	0.34	.53974	8/1/2005
2PY00054*AD	August 2005	001	80082	CBOD 5 day	30D Conc	10	19.5	8/1/2005
2PY00054*AD	June 2005	001	00530	Total Suspended Solids	30D Conc	12	17.	6/1/2005
2PY00054*AD	June 2005	001	80082	CBOD 5 day	30D Conc	10	31.6	6/1/2005
2PY00054*AD	December 2005	001	00530	Total Suspended Solids	30D Conc	12	42.	12/1/2005
2PY00054*AD	December 2005	001	00530	Total Suspended Solids	7D Conc	18	42.	12/15/2005
2PY00054*AD	December 2005	001	00530	Total Suspended Solids	30D Qty	0.34	.39743	12/1/2005
2PY00054*AD	December 2005	001	80082	CBOD 5 day	30D Conc	10	22.	12/1/2005
2PY00054*AD	December 2005	001	80082	CBOD 5 day	7D Conc	15	22.	12/15/2005
2PY00054*AD	June 2003	001	00300	Dissolved Oxygen	1D Conc	5.0	4.5	6/11/2003
2PY00054*AD	March 2007	001	80082	CBOD 5 day	30D Conc	10	27.6	3/1/2007
2PY00054*AD	March 2007	001	80082	CBOD 5 day	7D Conc	15	27.6	3/22/2007
2PY00054*AD	March 2007	001	80082	CBOD 5 day	30D Qty	0.28	.30034	3/1/2007
2PY00054*AD	December 2006	001	80082	CBOD 5 day	30D Conc	10	10.9	12/1/2006
2PY00054*AD	March 2006	001	80082	CBOD 5 day	30D Conc	10	17.	3/1/2006
2PY00054*AD	March 2006	001	80082	CBOD 5 day	7D Conc	15	17.	3/22/2006
2PY00054*AD	August 2006	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	6.25	8/1/2006
2PY00054*AD	August 2006	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	6.25	8/22/2006
2PY00054*AD	August 2006	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.03	.06647	8/1/2006
2PY00054*AD	August 2006	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.04	.06647	8/22/2006
2PY00054*AD	August 2006	001	31616	Fecal Coliform	30D Conc	1000	12000.	8/1/2006
2PY00054*AD	August 2006	001	31616	Fecal Coliform	7D Conc	2000	12000.	8/22/2006
2PY00054*AD	August 2006	001	80082	CBOD 5 day	30D Conc	10	12.7	8/1/2006
2PY00054*AD	August 2006	001	50060	Chlorine, Total Residu	1D Conc	0.038	1.7	8/25/2006
2PY00054*AD	August 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	4.	8/25/2006
2PY00054*AD	June 2006	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	5.25	6/1/2006
2PY00054*AD	June 2006	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	5.25	6/22/2006
2PY00054*AD	June 2006	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.03	.0616	6/1/2006
2PY00054*AD	June 2006	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.04	.0616	6/22/2006
2PY00054*AD	June 2006	001	31616	Fecal Coliform	30D Conc	1000	12000.	6/1/2006
2PY00054*AD	June 2006	001	31616	Fecal Coliform	7D Conc	2000	12000.	6/22/2006
2PY00054*AD	June 2006	001	80082	CBOD 5 day	30D Conc	10	15.8	6/1/2006
2PY00054*AD	June 2006	001	80082	CBOD 5 day	7D Conc	15	15.8	6/22/2006
2PY00054*AD	June 2006	001	50060	Chlorine, Total Residu	1D Conc	0.038	.96	6/14/2006
2PY00054*AD	June 2007	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.5	6/1/2007
2PY00054*AD	June 2007	001	80082	CBOD 5 day	30D Conc	10	19.	6/1/2007
2PY00054*AD	June 2007	001	80082	CBOD 5 day	7D Conc	15	19.	6/22/2007
2PY00054*AD	June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.38	6/21/2007

Get New Data

Meadowbrook MHP Permit Frequency Violation 11/6/2007

Permit No	Reporting Period	Violation Date	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported
2PY00054*AD	July 2004	7/31/2004	001	00056	Flow Rate	1/Day	1	0
2PY00054*AD	June 2005	6/1/2005	001	31616	Fecal Coliform	1/Quarter	1	0
2PY00054*AD	June 2006	6/1/2006	001	00530	Total Suspended Solids	1/Quarter	1	0