

**Ohio**

**Environmental  
Protection Agency**

Ted Strickland, Governor  
Lee Fisher, Lt. Governor  
Chris Korleski, Director



\*1PT0009320091124\*

WARREN

MIDWESTERN CHILDRENS HOME

ZIMMERMAN, MICH 2009/11/24



State of Ohio Environmental Protection Agency

**Southwest District Office**

401 E. Fifth St.  
Dayton, Ohio 45402

TELE: (937) 285-6357 FAX: (937) 285-6249  
www.epa.state.oh.us

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

November 24, 2009

Mr. Barry Boverie  
Midwestern Childrens Home  
4585 Long Spurling Road, PO Box 48  
Pleasant Plain, Ohio 45162

**Re: Midwestern Childrens Home WWTP  
NPDES Permit No. 1PT00093\*BD; OH0127116  
NPDES Compliance Inspection and Notice of Violation**

Dear Mr. Boverie:

On November 4, 2009, Michelle Waller and I met with you and conducted an NPDES (National Pollutant Discharge Elimination System) permit compliance inspection at the above referenced facility. Scott Huston, Facilities Supervisor, and Walt Paskins, Maintenance, were also present during the inspection. The purpose of the inspection was to evaluate the operation of the wastewater treatment system and to determine compliance with the NPDES permit. A copy of the inspection report is enclosed.

The wastewater treatment plant has had violations of the final effluent limitations in its NPDES permit (primarily for dissolved oxygen and ammonia nitrogen) over the past ten months. Both you and Mr. Huston indicated that significant infiltration and inflow (I & I) in the collection system, resulting in hydraulic overloading of the treatment plant, continue to be the main cause of the violations. The excessive flow has resulted in plant upsets and wash-outs during rainfall events, and makes it difficult to properly operate the plant. Some progress has been made in reducing the I & I in the system by replacing several sections of sewer pipe and manholes. We strongly recommend you continue to locate and correct sources of I & I in the collection and treatment system.

All components of the treatment plant appeared to be operational at the time of the inspection. However, several items noted during the inspection require a response and corrective actions: 1) a permanently bound log book, used to record operation and maintenance activities, must be kept at the site in a secure location (i.e. storage shed); 2) the clarifier wall, weir, and overflow trough must be scraped and cleaned more frequently; and 3) the YSI DO200 handheld dissolved oxygen meter must be calibrated each day of use, and the probe must be kept in a saturated air environment.

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Please provide this office a schedule for correcting these items as well as a time frame for additional work on the I & I problem. If you have any questions, don't hesitate to contact me at (937) 285-6102.

Sincerely,

A handwritten signature in cursive script, appearing to read "Michael W. Zimmerman", followed by a horizontal line.

Michael W. Zimmerman  
Permits Group  
Division of Surface Water

Copy: Scott Huston, Midwestern Childrens Home  
Tony Mounce, Wineco Inc.

Permit #: 1PT00093\*BD  
 NPDES #: OH0127116

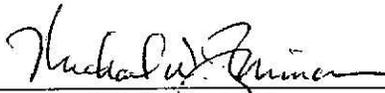
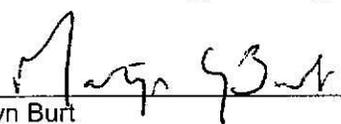


State of Ohio Environmental Protection Agency  
 Southwest District Office

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
1PT00093*BD	OH0127116	11/4/2009	C	S	2

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Midwestern Childrens Home 4581 Long Spurling Road Pleasant Plain, Warren County, Ohio (Mailing: P.O. Box 48, Pleasant Plain 45162)	11:45 am	3/1/2005
	Exit Time	Permit Expiration Date
	1:15 pm	2/28/2010
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Barry Boverie, Director / Administrator Scott Huston, Plant Manager / Facilities Supervisor Walt Paskins, Maintenance	(513) 877-2141 (same) (same)	
Name(s), Address and Title(s) of Operator of Record	Phone Number(s)	
Scott Huston	(513) 877-2141	
Name, Address and Title of Responsible Official	Phone Number	
Barry Boverie	(513) 877-2141	

Ohio EPA Inspector	Ohio EPA Reviewer
 Michael W. Zimmerman Division of Surface Water Southwest District Office	 Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
11-24-09 Date	11/24/09 Date

Average Daily Design Flow:	16,000 gpd
Plant Serves:	A group children's home and school
Average Daily Flow: (Period of Review):	25,249 gpd (1/1/2009 to 10/31/2009)
Method of flow monitoring:	Magmeters on the two effluent pumps
Type of alarms for plant:	Visual - light

**Pretreatment**

Type of Pretreatment: **Trash Trap**  
 Does the Trash Trap need pumped: **No**  
 Maintenance of pretreatment components is: **Good**

**Comments/Status:**

Trash trap was pumped out in the spring, 2009. Significant I & I problems with the sewers in the collection system and also infiltration into the WWTP tanks. They have replaced several sections of sewer pipe and have budgeted additional money for sewer replacement in 2010.

**Secondary Treatment  
(Aeration)**

Color of sludge: **Medium Brown**  
 Quality of Sludge: **Medium**  
 Foam: **Light (dark)**  
 Odor: **Slight**

	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Skimmers are operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operating	<input type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sludge return is operating	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Maintenance of aerating equipment is...**Good**

**Comments/Status:**

**Secondary Treatment  
(Settling)**

Clarity:	<b>Solids Present</b>
Condition of Weir:	<b>Excessive Algae/Solids Build Up</b>
Weir is level:	<b>Yes</b>
Effluent in weir:	<b>Light Solids</b>
Clarifier walls need scraped:	<b>Yes</b>

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

**Comments/Status:**

The clarifier overflow weir and trough needed cleaned and scheduled routine maintenance.

**Tertiary Treatment**

	Yes	No		Yes	No
Surface sand Filters: <b>Slow</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 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 of components is: **Good**

**Comments/Status:**

Three slow sand filters: No. 3 in use, No. 2 drying, No. 1 clean and ready to be placed back into service. Changed over from No. 2 to No. 3 the day before the inspection.

**Sludge Handling/Storage Disposal**

Hauler name: **Winelco, Inc.**  
 Disposal Site: **Warren Co. Lower Little Miami WWTP**  
 Sludge wasted from: **Clarifier**  
 How often is sludge wasted: **As needed**  
 Sludge drying beds: **No**                      Sludge holding tank: **No**

Overall maintenance of components is: **Good**

**Comments/Status:**

**Plant Discharge**

Discharge point is a: **Stream**  
 Name of discharge point: **Stony Run Creek**  
 Discharge is visible: **Yes**                      Quality of Effluent: **Clear**

**Comments/Status:**

**FINAL EFFLUENT LIMIT VIOLATIONS**  
 (Period of Review: January, 2009 thru October, 2009)

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

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2009	001	Total Suspended Solids	30D Qty	.73	.83147	5/1/2009
			30D			
May 2009	001	Nitrogen, Ammonia (NH3)	Conc	1.0	7.7	5/1/2009
May 2009	001	Nitrogen, Ammonia (NH3)	7D Conc	1.5	7.7	5/1/2009
May 2009	001	Nitrogen, Ammonia (NH3)	30D Qty	.06	.91461	5/1/2009
May 2009	001	Nitrogen, Ammonia (NH3)	7D Qty	.09	.91461	5/1/2009
June 2009	001	Total Suspended Solids	30D Qty	.73	1.56646	6/1/2009
June 2009	001	Total Suspended Solids	7D Qty	1.1	1.56646	6/1/2009
			30D			
June 2009	001	Nitrogen, Ammonia (NH3)	Conc	1.0	1.7	6/1/2009
June 2009	001	Nitrogen, Ammonia (NH3)	7D Conc	1.5	1.7	6/1/2009
June 2009	001	Nitrogen, Ammonia (NH3)	30D Qty	.06	.2663	6/1/2009
June 2009	001	Nitrogen, Ammonia (NH3)	7D Qty	.09	.2663	6/1/2009
June 2009	001	CBOD 5 day	30D Qty	.61	.65791	6/1/2009
June 2009	001	Dissolved Oxygen	1D Conc	6.0	5.3	6/4/2009
July 2009	001	Dissolved Oxygen	1D Conc	6.0	3.	7/7/2009
July 2009	001	Dissolved Oxygen	1D Conc	6.0	5.3	7/14/2009
July 2009	001	Dissolved Oxygen	1D Conc	6.0	5.7	7/20/2009
July 2009	001	Dissolved Oxygen	1D Conc	6.0	5.5	7/27/2009
August 2009	001	Total Suspended Solids	30D Qty	.73	.83508	8/1/2009
August 2009	001	Dissolved Oxygen	1D Conc	6.0	5.7	8/3/2009
August 2009	001	Dissolved Oxygen	1D Conc	6.0	2.9	8/6/2009