



State of Ohio Environmental Protection Agency

Northeast District Office

*Mungy Smith  
Middlefield  
pk*

2110 East Aurora Rd.  
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769  
www.epa.state.oh.us

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

May 1, 2008

RE: GEAUGA COUNTY  
VILLAGE OF MIDDLEFIELD WWTP  
COMPLIANCE EVALUATION INSPECTION  
NPDES# 3PB00034\*FD

Mr. Dan Weir, Village Administrator  
Mayor and Council  
Village of Middlefield  
14860 North State Avenue, P.O. Box 1019  
Middlefield, OH 44062

Dear Mr. Weir:

On April 9, 2008, I conducted a compliance evaluation inspection of the Middlefield Wastewater Treatment Plant. Michael Cippola accompanied me in conducting the physical inspection.

A review of monthly operating reports for January 1, 2007, to January 1, 2008, revealed that the effluent was in violation of permitted limits for copper and cadmium concentration or load during 6 of the 12 months. See the attached table for details. These are a significant rate of violation, and the Village should take action necessary to improve the quality of Middlefield's effluent. Since municipal wastewater plants are not designed to remove metals in the wastewater, it may be necessary to remove sources of copper and cadmium in the sewage to achieve the permitted limits.

The plant was producing an apparently acceptable quality effluent during the inspection. All treatment processes were operational and on line. This is the first inspection for the newly constructed plant, and it appears that the Village is providing exceptional operation and maintenance. The influent screening and grit removal facility showed careful operation, and the facility was clean and well maintained. The aeration, clarification, and rapid sand filters appeared to be operating effectively. Solids handling is exceptional, and the sludge product has the appearance and consistency of finely worked good topsoil.

Please contact me directly at (330) 963-1260 to discuss any comments or questions you may have regarding this inspection.

Sincerely,

Douglas Hiestand  
Environmental Engineer  
Division of Surface Water

DH/mt

enc: Table of violations, 1/1/2007 to 1/1/2008

cc: Michael Cippola, WWTP Operator, Village of Middlefield

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
3PB00034*GD	March 2007	001	01113	Cadmium, Total Recover	1D Conc	5.9	8.	3/1/2007
3PB00034*GD	March 2007	001	01113	Cadmium, Total Recover	30D Conc	3.1	8.	3/1/2007
3PB00034*GD	March 2007	001	01113	Cadmium, Total Recover	1D Qty	0.014	.02083	3/1/2007
3PB00034*GD	March 2007	001	01113	Cadmium, Total Recover	30D Qty	0.007	.02083	3/1/2007
3PB00034*GD	March 2007	001	01119	Copper, Total Recovers	30D Qty	0.026	.02604	3/1/2007
3PB00034*GD	August 2007	001	01119	Copper, Total Recovers	30D Conc	11	12.	8/1/2007
3PB00034*GD	August 2007	001	01119	Copper, Total Recovers	30D Qty	0.026	.03711	8/1/2007
3PB00034*GD	October 2007	001	01113	Cadmium, Total Recover	30D Conc	1.8	5.	10/1/2007
3PB00034*GD	October 2007	001	01113	Cadmium, Total Recover	30D Qty	0.007	.00825	10/1/2007
3PB00034*GD	October 2007	001	01119	Copper, Total Recovers	30D Conc	6.9	10.	10/1/2007
3PB00034*GD	October 2007	001	01113	Cadmium, Total Recover	1D Conc	3.7	5.	10/18/2007
3PB00034*GD	November 2007	001	01119	Copper, Total Recovers	30D Conc	6.9	10.	11/1/2007
3PB00034*GD	December 2007	001	01114	Lead, Total Recoverabl	30D Conc	5.0	60.	12/1/2007
3PB00034*GD	December 2007	001	01114	Lead, Total Recoverabl	30D Qty	0.019	.15874	12/1/2007
3PB00034*GD	December 2007	001	01119	Copper, Total Recovers	30D Conc	6.9	10.	12/1/2007
3PB00034*GD	December 2007	001	01119	Copper, Total Recovers	30D Qty	0.026	.02646	12/1/2007

Permit No	Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
3PB00034*GD	October 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	10/08/2007
3PB00034*GD	October 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	10/15/2007
3PB00034*GD	October 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	10/22/2007
3PB00034*GD	November 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	11/08/2007
3PB00034*GD	November 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	11/15/2007
3PB00034*GD	November 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	11/22/2007
3PB00034*GD	December 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	12/08/2007
3PB00034*GD	December 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	12/15/2007
3PB00034*GD	December 2007	001	00665	Phosphorus, Total (P)	1/Week	1	0	12/22/2007