



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

Re: Ashland County
Mapleton Local Schools
NPDES Permit

March 13, 2013

Mr. John Marks, Superintendent
Mapleton School District
635 County Road 801, Route 3
Ashland, Ohio 44805

Dear Mr. Marks:

On March 7, 2013, an inspection was conducted of the wastewater treatment facilities serving the Mapleton Schools located at 635 County Road 801, Orange Township, Ashland County. Mr. Scott Loescher of your staff was present to grant access to the plant as well as answer questions. The inspection was conducted as part of the renewal process for your National Pollutant Discharge Elimination System (NPDES) permit # 2PT00040.

All major treatment units were in operation and appeared to be functioning correctly. A clear discharge was observed at the creek. The operator's log was reviewed and found to be acceptable. Our completed inspection report is enclosed for your reference.

A review of the discharge monitoring reports submitted to our office for the months of September 2012 through January 2013 revealed several **violations** of the limits in your NPDES permit. A printout of the **violations** is included for your reference. Your facility remains in significant non-compliance (SNC) with the limits contained in your NPDES permit for the period of July 2012 through December 2012.

Your contract operator, McGhee's Technical Water Service, has taken several steps in order to address the presumed causes of the non-compliance. The main cause was a lack of alkalinity present within the wastewater treatment plant (WWTP) to allow for the conversion of ammonia to nitrate and nitrite to occur. This alkalinity deficiency has been corrected by allowing additional finished drinking water to flow to the treatment plant from a faucet within the school. Natural alkalinity present in the water is sufficient to provide the necessary appropriate environment within the WWTP. Ammonia testing results for January and February 2013 have been in compliance with the limits contained in the NPDES permit.

Mr. John Marks
March 13, 2013
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Our office has completed writing your renewal NPDES permit and you will be receiving a draft copy within the next few weeks. Please look this draft permit over and contact me with any questions or concerns.

If you have any questions, please call me at 419-373-3070.

Sincerely,



Walter Ariss, P.E.
Environmental Specialist II
Division of Surface Water

/jlm

Enclosures

pc: McGhee's Technical Water Services

ec: Tracking

Get New Data

Mapleton Schools NPDES permit limit violations September 2012 through January 2013

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00040*CD	October 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	4.94	10/1/2012
2PT00040*CD	October 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	4.94	10/1/2012
2PT00040*CD	October 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.08	.14397	10/1/2012
2PT00040*CD	October 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.13	.14397	10/1/2012
2PT00040*CD	November 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	3.7	11/1/2012
2PT00040*CD	December 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	7.6	12/1/2012
2PT00040*CD	December 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	7.6	12/1/2012
2PT00040*CD	December 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.25	.28191	12/1/2012

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 150,000 GPD

NPDES Permit No. 2PT00040

Facility Name Manlyton Local Schools Expiration Date 1/31/13
 Facility Location 635 CR 801 Date 3/7/13 Time 1:40pm
 City Ashland County Ashland Township Orange
 Name of Owner _____ Owner Phone _____
 Person Contacted Scott Operator of Record Mablee's TWSI
 Flow Design 22,000 GPD WWTP Classification: X A or 1
 Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 35° clouds
 OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	Turbidity	Odor	Color
0	None	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Colorless
1	Mild			
2	Moderate	<input type="checkbox"/> Light Solids	<input type="checkbox"/> Musty	<input type="checkbox"/> Grey
3	Serious			
4	Extreme	<input type="checkbox"/> Heavy Solids	<input type="checkbox"/> Septic	<input type="checkbox"/> Black

2. Effect of Effluent on Receiving Stream Name: Unnamed Trib Jerome Falls Mahan

No.	Severity Description	Turbidity	Odor	Color
0	None	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Colorless
1	Mild			
2	Moderate	<input type="checkbox"/> Light Solids	<input type="checkbox"/> Musty	<input type="checkbox"/> Grey
3	Serious			
4	Extreme	<input type="checkbox"/> Heavy Solids	<input type="checkbox"/> Septic	<input type="checkbox"/> Black

3. a. Plant has _____ excellent good _____ fair _____ poor operation
 b. Plant has _____ excellent good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent good _____ fair _____ poor maintenance- N/A
 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	
_____	<input checked="" type="checkbox"/>	Chlorination Tablets
_____	<input checked="" type="checkbox"/>	Dechlorination Tablets
_____	_____	Ultraviolet (U.V.)

Yes No

4. Compliance with NPDES Permit
 Periodic Violations Y X Parameters: _____
 Chronic Violations X Ammonia
 5. O & M logbook kept and available on site: Location In blower building
 6. Staffing Requirement Met (Class A - 2 days per week for minimum 1 hour per week)
 (Class I - 3 days per week for minimum 1.5 hours per week)
 7. Adequate Plant Safety: Deficiencies _____

Facility Name: Mapleton Local Schools

Process	# Units	Unit	If Needed -- Description and Comments
Preliminary	X	Trash Trap <i>trash carries over to EQ</i>	Pumping Frequency ? / aerating tank
		Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	X	Flow Equalization	okay
Aeration Equipment		Plant Timer <u>Y</u> <u>X</u> N	Cycle Time:
	X	Motor / Blower Unit <i>running</i>	
Secondary Treatment	X	Aeration Tank	Color: <i>good color</i> Adequate Aeration <u>Y</u> N
Final Settling	X	Clarifier	<i>good clarity, can see several feet down</i>
	X	Sludge Return	In <u>X</u> Out
	X	Surface Skimmer	In Out <u>X</u>
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand, Filter <i>Both beds very clean</i>	<i>using exact bed</i>
		Polishing Pond	
		Other	
Disinfection	X	Contact Tank	<i>very clear / can see bottom</i>
	X	Chlorine Tube Feeder	<i>out</i>
	X	Dechlorination Tube Feeder	<i>out</i>
		Ultraviolet (UV)	
Flow Metering	X	Elapsed Pump Time	<i>on filter dosing</i>
		Recorder (continuous total)	
Pumps	X	Raw Wastewater (type) <i>submersible</i>	<i>okay</i>
	X	Sand Filter Effluent Dosing	<i>okay</i>
Sludge Handling	X	Aerated Storage Tank	<i>1/2 full / air on</i>
		Sludge Drying Bed	
Sludge Disposal	X	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	X	Post Aeration	<i>on</i>
		Spray Irrigation	
		Other	