



State of Ohio Environmental Protection Agency

Northwest District Office

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

Re: Wyandot County  
Mohawk Local schools  
NPDES Permit

September 16, 2009

Members of the Board of Education  
Mohawk Local Schools  
605 State Route 231  
Sycamore, Ohio 44882

Dear Members:

On September 2, 2009, an operation and maintenance inspection was made of the wastewater treatment plant serving the Mohawk Local Schools. The treatment plant is located at 295 State Route 231, Sycamore Township, Wyandot County. This inspection was conducted as part of your facility's National Pollutant Discharge Elimination System (NPDES) permit No. 2PT00014\*DD.

At the time of the inspection, the treatment facility was in operation. The contents of the aeration tanks were brown with good roll. The final discharge from the plant was visually clear. However, we did not collect effluent samples to determine the water quality of the discharge during our visit.

Listed below are some of our recommendations to enhance the plant's operation:

- 1) Continue to maintain a licensed/certified wastewater operator.
- 2) Continue to check the trash trap and pump it out as necessary.
- 3) The mixed liquor in the aeration tank appeared brown and is an indicator of a fairly healthy microbial population. Continue the current rate of aeration to maintain that color.
- 4) The skimmers must be adjusted so that they just break the surface tension of the liquid in the final clarifier.
- 6) The weirs of the final clarifier should be cleaned and leveled so that a moderate amount of liquid passes evenly over the total length of it.

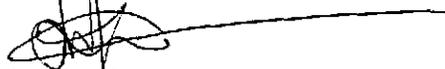


Members of the Board of Education  
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7) Continue to check that the sludge returns are returning activated sludge to the aeration tanks. If no activated sludge is being returned to the aeration tanks, then gently scrape the sides of the final clarifiers all around the hoppers with slow, easy, downward motions, just enough to help move the sludge toward the bottom of the hopper. This procedure should be done once a week and will increase the solids being returned to the aeration tanks and help turn the color in the aeration tanks to a darker brown.

Our review of your discharge monitoring reports (1/1/2008 to 8/1/2009) for this facility indicated numerous effluent violations. Please refer to the enclosed violation table and share it with your Operator of record. Our completed inspection form is enclosed for your review. Should you have any questions, please contact me at 419-373-3021.

Yours truly,



Jason Ko  
Division of Surface Water

/llr

Enclosures

pc: Wyandot County Health Department  
[DSW-NWDO.File]

OHIO ENVIRONMENTAL PROTECTION AGENCY  
OPERATION AND MAINTENANCE INSPECTION  
WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PT00014

Facility Name: Mohawk Local Schools Expiration Date: April 30, 2012

Facility Address: 605 State Route 231 Date: September 2, 2009 Time: 10:00 am

City: Sycamore County: Wyandot Township: Sycamore

Name and Address of Owner: Mohawk School District Board of Education, 605 State Route 231, Sycamore, Ohio

Person Contacted: Tim Davidson Owner Phone: (419) 927-9242

Flow Design: 22,500 GPD Present                      GPD (metered - estimated)

Trib. Pop. 1500 (estimated) Weather at time of inspection: Temp 70°F - Sunny

OEPA Personnel: Jason Ko District: NWDO

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: Olentangy River - Not Observed

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

3. a. Plant has            excellent            good X fair            poor operation  
 b. Plant has            excellent            good X fair            poor maintenance  
 c. Sand filters have            excellent            good X fair            poor maintenance

d. Not operating at expected efficiency due to:

- (1)            hydraulic overload  
 (2)            organic/ solids underload  
 (3)            personnel inefficiency  
 (4)            equipment failure  
 (5)            wastes  
 (6)

Disinfection: (Required May 1 thru Oct.31.)

IN	OUT	
<u>          </u>	<u>          </u>	Chlorination Tablets
<u>          </u>	<u>          </u>	Dechlorination Tablets
<u>X</u>	<u>          </u>	U.V

4. Yes            No X Compliance with NPDES Permit Periodic Violations Yes X No            Parameters: see violation table
5. X            Adequate Plant Safety Chronic Violation
6. X            Operation and Maintenance Service Name : Bradley Borer

Frequency of Visits 1/week

Facility Name: Mohawk Local Schools

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 1/year
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	Aerated by one blower
Aeration Equipment	4	Plant Timer ___Y__X__N Motor/ Blower Unit	Cycle Time: On 24 hours 2 newer units running; 2 older units out
Secondary Treatment	4	Aeration Tank	Color : Brown; 2 newer units operating  Adequate Aeration: Y__X__N__
Final Settling	2	Clarifier	1 newer unit in use
	3	Sludge Return	In__X__Out__
	3	Surface Skimmer	In__X__Out__
		Fixed Media Clarifier	
Tertiary Treatment	4	Surface Sand Filter	
		Polishing Pond	
		Other	
Disinfection		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	1	Ultraviolet (UV)	In use
Flow Metering	OUT	Elapsed Pump Time	Hour meter being installed at the dosing pumps
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	OUT	Aerated Storage Tank	1 unit
		Sludge Drying Bed	
Sludge Disposal	IN	Municipal POTW	Haul to City of Fostoria
		Landfill	
		Land Application	
Advanced Treatment	IN	Post Aeration	At contact tank
		Spray Irrigation	
		Other	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00014*DD	June 2008	001	00530	Total Suspended Solids	1D Conc	24.7	29.	6/2/2008
2PT00014*DD	June 2008	001	00530	Total Suspended Solids	30D Conc	12	29.	6/1/2008
2PT00014*DD	June 2008	001	00530	Total Suspended Solids	7D Conc	18	29.	6/1/2008
2PT00014*DD	June 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	69.6	6/1/2008
2PT00014*DD	June 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	69.6	6/1/2008
2PT00014*DD	June 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	.09	.26344	6/1/2008
2PT00014*DD	June 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	.13	.26344	6/1/2008
2PT00014*DD	June 2008	001	80082	CBOD 5 day	30D Conc	10	25.	6/1/2008
2PT00014*DD	June 2008	001	80082	CBOD 5 day	7D Conc	15	25.	6/1/2008
2PT00014*DD	September 2008	001	00530	Total Suspended Solids	1D Conc	24.7	37.	9/8/2008
2PT00014*DD	September 2008	001	00530	Total Suspended Solids	30D Conc	12	37.	9/1/2008
2PT00014*DD	September 2008	001	00530	Total Suspended Solids	7D Conc	18	37.	9/8/2008
2PT00014*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	54.5	7/1/2008
2PT00014*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	54.5	7/1/2008
2PT00014*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	.09	.20628	7/1/2008
2PT00014*DD	July 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	.13	.20628	7/1/2008
2PT00014*DD	August 2008	001	00530	Total Suspended Solids	30D Conc	12	18.	8/1/2008
2PT00014*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	28.7	8/1/2008
2PT00014*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	28.7	8/22/2008
2PT00014*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	.09	.21726	8/1/2008
2PT00014*DD	August 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	.13	.21726	8/22/2008
2PT00014*DD	May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	45.1	5/1/2008
2PT00014*DD	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	45.1	5/1/2008
2PT00014*DD	May 2008	001	00610	Nitrogen, Ammonia (NH3	30D Qty	.09	.34141	5/1/2008
2PT00014*DD	May 2008	001	00610	Nitrogen, Ammonia (NH3	7D Qty	.13	.34141	5/1/2008
2PT00014*DD	March 2009	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	25.2	3/1/2009
2PT00014*DD	March 2009	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	25.2	3/1/2009
2PT00014*DD	December 2008	001	80082	CBOD 5 day	7D Conc	15	19.	12/1/2008
2PT00014*DD	May 2009	001	00530	Total Suspended Solids	30D Conc	12	15.	5/1/2009
2PT00014*DD	May 2009	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	27.	5/1/2009
2PT00014*DD	May 2009	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	27.	5/22/2009
2PT00014*DD	May 2009	001	00610	Nitrogen, Ammonia (NH3	30D Qty	.09	.20439	5/1/2009
2PT00014*DD	May 2009	001	00610	Nitrogen, Ammonia (NH3	7D Qty	.13	.20439	5/22/2009

2PT00014*DD	April 2009	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	15.307	4/1/2009
2PT00014*DD	April 2009	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	30.6	4/1/2009