



**Environmental
Protection Agency**

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

Re: Defiance County
Northeastern Local School WWTP
Ohio EPA Permit No. 2PT00018
NPDES Permit No. OH0125415

June 28, 2012

Mr. James Roach
Northeastern Local Schools
05921 Domersville Road
Defiance, Ohio 43512

Dear Mr. Roach:

On June 13, 2012, an inspection was conducted at the Northeastern Local School Wastewater Treatment Plant (WWTP). Mr. Scott Beckman provided us with information regarding the operation and maintenance of the wastewater treatment system. Mr. Beckman is the operator of record in charge of operations and maintenance. This plant currently has a National Pollutant Discharge Elimination System (NPDES) permit (number 2PT00018), which expires on April 30, 2016. No samples were taken to verify compliance with permit limits.

You are in violation of Ohio Administrative Code (OAC) 3745-07-09(A), which requires that a log book be kept at the facility that documents the time spent by the operator of record at the facility and the operation and maintenance activities performed at the facility. No log book was available for this facility.

During our visit we observed the following:

1. Contents in the equalization basin smelled septic although the aerator in this chamber was operational.
2. The aeration tank's content had a black color. The aeration unit was operating; however, the skimmer was not adjusted properly in the settling tank and the discharge back to the aeration tank was clear.
3. Recent reductions in flow (school is out) has negatively affected the plant.
4. The settling tank was dark black with weirs full of sludge. The skimmer is not being adjusted to the water level height and too much clear water is being returned to the aeration tank.
5. The sand filters had a dense covering of weeds that the operator said was due to more sand arriving soon from Sandusky, which would meet Permit to Install (PTI) sand specs. Sludge had not been removed from the sand filter beds. Sludge and weeds should be removed continuously.
6. The wastewater in the final Chlorine and Dechlorination contact tank appeared clear and was not discharging. Both units did not have tablets and Mr. Beckman indicated that they were not on order.

Mr. James Roach
June 28, 2012
Page Two

Effluent violations have been reported to our office. Closely monitor this facility, since the low flow that supplies this package plant may result in operational challenges. In addition, the operator log for the WWTP must be maintained and reflect all required operation and maintenance activities that occur at the plant. Please continue to perform all operation and maintenance activities. We will be conducting reconnaissance inspections in the future to ensure that operation and maintenance activities are being performed at this facility, specifically the adjustment of the skimmer in the settling tank to the water surface elevation and the addition of disinfection tablets.

Enclosed is our completed inspection report. If you have any questions, please contact me at (419) 373-3067.

Sincerely,



Dana Martin-Hayden
Environmental Specialist II
Division of Surface Water

/jlm

Enclosure

pc: Scott Beckman, Northeastern Local Schools

ec: Dana Martin-Hayden, DSW, NWDO
Tracking



State of Ohio Environmental Protection Agency
Northwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding

Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
OH0139009	2PS00016	6/4/2012	C	S	2

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Northeastern Local Schools 05921 Domersville Road Defiance, OH 43512	2:20	2/1/2011
	Exit Time	Permit Expiration Date
	3:20	1/31/2016
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Scott Beckman	419-497-3461	
Name, Address and Title of Responsible Official	Phone Number	
Same as above		

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	N	Pretreatment
U	Records/Reports	N	Laboratory	N	Compliance Schedule
U	Operations & Maintenance	N	Effluent/Receiving Waters	S	Self-Monitoring Program
U	Facility Site Review	N	Sludge Storage/Disposal	U	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)

The operator log for the wastewater treatment plant must be maintained and reflect all required operation and maintenance activities that occur at the plant. Perform all operation and maintenance activities. We will be conducting reconnaissance inspections to ensure that operation and maintenance activities are being performed at this facility, specifically the adjustment of the skimmer in the settling tank to the water surface elevation.

The wastewater in the final Chlorine and Dechlorination contact tank appears clear and was not discharging. Both tubes did not have tablets and they were not on order.

The sand filters had a dense covering of weeds which the operator said was due to more sand arriving soon from Sandusky, which would meet PTI sand specs. Sludge had not been removed from the sand filter beds. All maintenance activities should be continuous.

Violation of Ohio Administrative Code(OAC) 3745-07-09(A), which requires that a log book is kept at the facility, which documents the time spent by the operator of record at the facility and the operation and maintenance activities at the facility. No log book was completed at this facility.

Inspector

Reviewer

Dana Martin-Hughes 6/22/12

Thomas Pofflager 6/22/12

Dana Martin-Hayden Division of Surface Water Northwest District Office	Date	Thomas Poffenbarger, P.E. Water Quality Engineer II/Unit Supervisor Division of Surface Water Northwest District Office	Date
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Facility Name: Northeastern Local Schools (2PT00018)

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	2	Flow Equalization	Dark grey well aerated, no timer continuous
Aeration Equipment	1	Plant Timer <u>X</u> <u>Y</u> <u> </u> <u>N</u> Motor/ Blower Unit	Cycle Time: Continuous
Secondary Treatment	4	Aeration Tank	Color: Dark black Operator not aware that it needs to be placed at water depth. At least 2" below surface clear water discharging back to aeration tanks. Adequate Aeration: <u>Y</u> <u>X</u> <u>N</u>
Final Settling	2	Clarifier	Dark black - weirs full of sludge. The south tank weirs are full of algae.
	4	Sludge Return	In <u>X</u> Out <u> </u> Clear
	2	Surface Skimmer	Clear - skimmer water level not adjusted properly In <u>X</u> Out <u> </u> below surface and too deep
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	New sand coming in July from Sandusky to meet specs. -operator decided not to weed sand filters,
		Polishing Pond	
		Other	
Disinfection	3	Chlorine Tube Feeder	Missing required tablets – did not order ahead
	3	Dechlorination Tube Feeder	Missing required tablets – did not order ahead
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	Use water meter to calculate
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	Not needed since - not enough biosolids for good treatment, no extra to store
	2	Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	