Ohio EPA
40 years and moving forward

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

September 13, 2013

Dr. Louis Kramer, Superintendent
Northeastern Local School District
1414 Bowman Road
Springfield, OH 45502

RE: Northeastern Local School District (NPDES # 1PT00033*BD) Compliance Evaluation Inspection / Notice of Violation.

Dear Mr. Kramer:

On August 29, 2013, a representative of the Ohio EPA Southwest District Office conducted a Compliance Evaluation Inspection at the Northeastern Local School District Waste Water Treatment Plant, 1414 Bowman Road, Harmony Township, Clark County. The inspection was conducted as part of the National Pollutant Discharge Elimination System (NPDES) permit renewal process.

The findings from this inspection are included in the attached report. A review of final effluent data from September 2009 through July 2013 revealed seven final effluent violations. Non-compliance notifications were provided. No additional information is needed at this time. The district NPDES permit will expire at the end of September 2013. Barring any appeals or unforeseen delays, the renewal permit should go into effect on October 1, 2013.

If you have any questions regarding the report, you may contact Joe Reynolds at (937) 285-6097.

Sincerely,

Martyn G. Burt
Environmental Supervisor
Division of Surface Water

MB/kb

Enclosure

ec: Clark County Combined Health Department
Brenda Sweeny, Operator of Record

OhioEPA

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**
1PT00033*BD	OH0040894	08/29/2013	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	**Entry Time**	**Permit Effective Date**
Northeastern High School 1414 Bowman Road Springfield, OH 45502	9:15 a.m.	Oct. 1, 2008
	Exit Time	**Permit Expiration Date**
	10:30 a.m.	Sept. 30, 2013
Name(s) and Title(s) of On-Site Representatives	**Phone Number(s)**	
Joe & Brenda Sweeney, Operators	(937) 568-4534	
Name(s), Address and Title(s) of Operator of Record	**Phone Number(s)**	
Brenda Sweeney 12121 Old Columbus Road South Vienna, OH 45369	(937) 568-4534	
Name, Address and Title of Responsible Official	**Phone Number**	
Dr. Louis Kramer, Superintendent 1414 Bowman Road Springfield, OH 45502	(937) 325-7615	

Ohio EPA Inspector	Ohio EPA Reviewer
9/16/13	9/13/13
Joe Reynolds Date Environmental Specialist II Division of Surface Water Southwest District Office	Martyn Burt Date Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

Average Daily Design Flow:	**1 5,000 Gallons/Day**
Plant Serves:	**N/E**
Average Daily Flow: (Period of Review):	**3000 Gallons/Day (Jan. 1, 2012 through June 30, 2013)**
Method of flow monitoring:	**Hour Meter on Dosing Pumps**
Type of alarms for plant:	**Visual (checked weekly)**

Equalization Basin

Two Pumps present: **Yes**
Both Pumps operational: **Yes**
Alarm present: **Yes**
Alarm operational: **Yes**
Maintenance of equalization basin is: **Satisfactory**

Comments/Status:

The alarm is visual. The alarm is checked monthly by Brenda Sweeney.

Pretreatment

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

Comments/Status:

Septage is hauled by Joe Sweeney and disposed of at the London WWTP. Septage is hauled twice per year.

Secondary Treatment (Aeration)

Color of sludge: **Medium Brown**
Quality of Sludge: **Medium**
Foam: **Light (white)**
Odor: **No objectionable odor present**

	Yes	No		Yes	No
Aeration is taking place	☒	☐	Plant is septic	☐	☒
Blowers are operating	☒	☐	Blowers are on a timer	☒	☐
Skimmers are operating	☒	☐	Plant is flooded	☐	☒
Diffusers are operating	☒	☐	Grating is present	☒	☐
Sludge return is operating	☒	☐	Grating condition: **Satisfactory**		

Maintenance of aerating equipment is...**Satisfactory**

Comments/Status:

There are three aeration blowers. Two provide air to the aeration tank, one provides air to the equalization tank.

Secondary Treatment (Settling)

Clarity: **Clear**
Condition of Weir: **Clean**
Weir is level: **Yes**
Effluent in weir: No discharge
Clarifier walls need scraped: **No**

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

Comments/Status:

Clarifier walls are scraped every 3 to 4 days. Randy Farris performs daily maintenance on the plant.

Tertiary Treatment

	Yes	No		Yes	No
Surface sand Filters: **Slow**	☒	☐	**Subsurface**	☐	☒
Distribution box operating	☒	☐	Beds alternated	☒	☐
Are filters ponding/flooding	☐	☒	Beds raked	☒	☐
Sand filters overgrown	☐	☒	Chlorination present	☒	☐
UV present	☐	☒	Dechlorination present	☒	☐

Overall maintenance of components is: **Satisfactory**

Comments/Status:

Filter beds were free of weeds. There were no visible signs of solids on the filter beds. Sand in the filter beds was level.

Total suspended solids (TSS) violations are suspected to be from surface water during heavy storm events. Storm water infiltrates into the ground on the north side of the sand filter's concrete wall, thereby entering the sand filters' underdrains. The contractor believes that constructing a dike and swale on the north side of the plant to divert the storm water will eliminate the TSS violations.

Sludge Handling/Storage Disposal

Hauler name: **Joseph Sweeney**
Disposal Site: **City of London.**
Sludge wasted from: **Final Clarifier**
How often is sludge wasted: **Twice per year**
Sludge drying beds: **No** Sludge holding tank: **NO**

Overall maintenance of components is: **Satisfactory**

Comments/Status:

Permit # : 1PT00033*AD
NPDES #: OH0040894

Plant Discharge

Discharge point is a: **Stream**
Name of discharge point: **Sinking Creek**
Discharge is visible: **Yes** Quality of Effluent: **NE**

Comments/Status:

The discharge point is located on Sinking Creek. The discharge flows to Old Columbus Road via a tile, then parallels Old Columbus Road until it reaches the intersection of Mahar Road at which point the tile turns north. The tile is on the west side of Mahar Road for approximately 1,919 l.f. until it discharges to the creek at the bridge across from Brookside MHP. The discharge was not inspected today.

EFFLUENT LIMIT VIOLATIONS
(Period of Review: Sept. 2009 through July 2013)

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

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
Sept. 2009	Fecal Coliform	30D Conc	1000	2800	9/1/2009
Sept. 2009	Fecal Coliform	7D Conc	2000	2800	9/22/2009
Jan. 2010	Nitrogen Ammonia	30D Conc	3.0	3.1	1/1/2010
Jan. 2010	Nitrogen Ammonia	7D Conc	4.5	6.1	1/8/2010
March 2013	TSS	30D Conc	12.0	16.5	3/1/2013
March 2013	CBOD 5 day	30D Conc	10.0	15.0	3/1/2013
May 2013	CBOD 5 day	30D Conc	10.0	13.5	5/1/2013