Ohio EPA
40 years and moving forward
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Re: Williams County
Kunkle Schoolhouse
NPDES Permit

January 18, 2013

Mr. Kirby Cannon, Jr.
P. O. Box 5
Kunkle, Ohio 43531

Dear Mr. Cannon:

This will acknowledge our January 10, 2013, inspection of the sewage treatment plant serving your residence. Your residence (old Kunkle Schoolhouse) is located at 119 Elm Street. This inspection was conducted to evaluate compliance with your facility's National Pollutant Discharge Elimination System (NPDES) permit No. 2PR00129*CD.

At the time of the inspection, the sewage treatment facility was operational. The contents in the aeration tank were gray and ice-covered. There was no discharge from the plant. We are also in the process of renewing your existing NPDES permit, which expired on September 30, 2010.

Based on our review of your facility, we would like to inform you of the operational needs and deficiencies. Listed below are our recommendations/requirements that will help to enhance the operation of the existing plant.

1) Maintain a licensed/certified wastewater operator (Required).

2) Check the trash trap and pump it out if the scum layer is 8" deep.

3) The mixed liquor in the aeration tank was gray. This indicates a fairly unhealthy microbial population. A dark, more chocolate brown color is desired as it is an indicator of a healthy microbial population. We recommend aerating heavily (increase the rate of aeration) until the darker chocolate brown color appears and then aerating enough throughout the week (by using a plant timer) to maintain that color.

4) Check the skimmer in the final clarifier. The skimmer must be adjusted so that it just breaks the surface tension of the liquid in the final clarifier.

5) Check the weir of the final clarifier. It should be cleaned and leveled so that a moderate amount of liquid passes evenly over the total length of it.

6) The sides of the final clarifier all around the hopper need to be gently scraped 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 tank and help turn the color in the aeration tank to a darker brown.

Our review of your discharge monitoring reports (DMRs) for this facility indicated the "AL" reporting code, which indicates no discharge, has been reported every month since at least January 2002. Please be aware that any occasion in which water flows from the discharge pipe needs to be sampled and reported in accordance with the terms and conditions of the NPDES permit. If the building is occupied, it seems highly unlikely that there have been no discharges from the treatment system in the past 11 years.

Please inform this office in writing within 14 days as to the reason no effluent data has been reported. Failure to submit the required effluent quality data constitutes a violation of the term and conditions of your NPDES permit and, therefore, are subject to enforcement actions. Such actions can result in fines of up to $10,000 per day of violation. Ohio EPA would like to resolve these violations prior to commencing an enforcement action.

Our completed inspection report is included for your records. Should you have any questions, please contact me at 419-373-3021.

Yours truly,

Jason Ko
Division of Surface Water

/jlm

Enclosures

pc: Williams County Health Department

ec: Tracking

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

NPDES Permit No. 2PR00129

Facility Name: Kunkle Schoolhouse Expiration Date: Sept 30, 2010

Facility Address: P. O Box 5, 119 Elm Street Date: January 10, 2013 Time: 10:45 am

City: Kunkle County: Williams Township: Madison

Name and Address of Owner: P. O. Box 5, 119 Elm Street, Kunkle , OH 43531

Person Contacted: Kirby Cannon, Jr Owner Phone: (260) 668-6379

Flow Design: 7,100 GPD Present 300 GPD (metered - estimated)

Trib. Pop. 5 (actual - estimated) Weather at time of inspection: Temp 40°F - Clear

OEPA Personnel: Jason Ko District: NWDO

1. Plant Effluent - Mark Severity No. (No flow at the time of inspection)

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

2. Effect of effluent on Receiving Stream Name: West Branch Mill Creek (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 ____ fair X 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) X organic/ solids underload
(3) X personnel inefficiency
(4) ____ equipment failure
(5) Increase/Maintain Aeration w/ Timer
(6) ____

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

IN	OUT	
____	____	Chlorination Tablets
____	____	Dechlorination Tablets
____	____	U.V

	Yes	No		Yes	No	Parameters:
4.	____	____	Compliance with NPDES Permit	Periodic Violations ____	____	____
5.	X	____	Adequate Plant Safety	Chronic Violation ____	____	____
6.	____	X	Operation and Maintenance Service	Name : Kirby Cannon Jr		

Frequency of Visits 2/week

Facility Name: Kunkle Schoolhouse

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 2/yr
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	1	Plant Timer ___Y __X_ N Motor/ Blower Unit	Cycle Time: Install timer to aerate/maintain DO throughout the week
Secondary Treatment	1	Aeration Tank	Color : Grayish, ice-covered & extreme low flow Adequate Aeration: Y___ N_X_
Final Settling	1	Clarifier	
	2	Sludge Return	In _X__ Out __
	1	Surface Skimmer	In _X__ Out ___
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	
		Polishing Pond	
		Other	
Disinfection	OUT	Chlorine Tube Feeder	
	OUT	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	1	Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	OUT
		Sludge Drying Bed	
Sludge Disposal	IN	Municipal POTW	Haul to other POTW
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	