OhioEPA

State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

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

Re: Huron County
Christie Lane School/Workshop
Sewerage

October 12, 2007

Mr. John Schwartz
Christie Lane School
302 S. Norwalk
Norwalk, OH 44857

Dear Mr. Schwartz:

On August 27, 2007, I conducted an inspection of the wastewater treatment plant serving the Christie Lane School/Workshop. Mr. John Schwartz was present and provided information on the maintenance and operation of the plant. Christie Lane Schools/Workshop is currently operating under National Pollutant Discharge Elimination System Permit (NPDES) No. 2PT00041*AD. At the time of inspection a clear final effluent was observed being discharged from the plant. Our observations and recommendations are as follows:

1. The plant was in the off mode at the time of my arrival. However, with Mr. Schwartz permission the plant was turned on temporarily. The contents of the aeration tank were light grey/brown and the rate of aeration appeared to be adequate.

2. The south sand filter was online and the north filter was off line for routine maintenance.

3. Chlorine and dechlorination tablets were observed in place. It was noted that a portion of the contact tank is outside the fenced area of the plant and that the grating is easily removed. For safety reasons we strongly recommend that the grating on this portion of the contact tank be secured with a lock.

4. Monthly operating reports have been submitted as required by your NPDES permit. A review of these reports since 2002, shows that violations of **the Nitrogen Ammonia (NH3) and CBOD 5 limits of your permit occurred in June 2005, August 2005 as well as some frequency violations since the permit went effective in December 2002.** However, since these issues appear to have been resolved we consider this plant to be in compliance.

We have received your NPDES permit application and have begun drafting your renewal permit. A draft copy of the renewal permit should be sent to you in the near future. Please take the time to look it over with your operator and contact me at (419) 373-3003 or via email at andrew.gall@epa.state.oh.us with any questions or comments. A copy of our inspection report and permit violations have been included for your review.

Sincerely,

Andrew Y. Gall

Andrew Y. Gall
Environmental Specialist II
Division of Surface Water

/csl

Enclosures

pc: Eastwood Environmental w/enc.
Huron County Health Department
NWDO-DSW File

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PT00041

Facility Name Christie Lane School Expiration Date 11-30-2007

Facility Address 306 S. Norwalk Rd. Date 8/27/07 Time 11:00 am / pm

City Norwalk County Huron Township

Name and Address of Owner Huron County BMR

Person Contacted John Schwartz Owner Phone (419) 668-8840

Flow: Design 6060 GPD Present 2000 GPD (metered - estimated)

Trib. Pop. 150-200 (actual - estimated) Weather at time of inspection: Temp 75° Partly Sunny

OEPA Personnel Andrew Gall District NWDO

Bldg #1
150 people year round

Bldg #2
20 year round
30 Seasonal

Bldg. Occupied Between 8:00-4:00

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: Not observed - Effluent observed in manhole

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

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	
X		Chlorination Tablets
X		Dechlorination Tablets
		U.V. N.A.

	Yes	No	
4.	X		Compliance with NPDES Permit

	Y	N	Parameters:
Periodic Violations	X		NH3, cBOD5, pH, TSS
Chronic Violations			

5. ____ ____ Adequate plant safety

6. X ____ Operation and Maintenance Service Name Eastwood Environmental

Frequency of Visits ____

Facility Name: Christie Lane

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency:
	–	Grease Trap	Pumping Frequency:
	–	Bar Screen	
	–	Comminutor	
	–	Flow Equalization	
Aeration Equipment	1	Plant Timer X Y ___ N Motor/ Blower Unit 2 Blowers	Cycle Time: On from 6PM - 4AM OFF from 4AM - 6PM
Secondary Treatment	1	Aeration Tank	Color: Light Grey/Brown Adequate Aeration: Y ✓ N ___
Final Settling	1	Clarifier	
	1	Sludge Return	In ___ Out x ~~Skimmer/Return~~ not on Plant not on during visit
	1	Surface Skimmer	In ___ Out x They appeared to work when plant turned on briefly
	–	Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	South bed in service North bed off-line
	✓	Polishing Pond	
	✓	Other	
Disinfection	1	Contact Tank	Grating on tank outside fenced area needs to be secured
	1	Chlorine Tube Feeder	Tablets in feeder
	1	Dechlorination Tube Feeder	Tablets in feeder
	✓	Ultraviolet (UV)	
Flow Metering	✓	Elapsed Pump Time	
	✓	Recorder (continuous total)	
Pumps	✓	Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	Automatic Dosing, No Hour Meters
Sludge Handling	NA	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	✓	Municipal POTW	City of Sandusky
		Landfill	
		Land Application	
Advanced Treatment	NA	Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00041*AD	June 2005	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.11	6/1/2005
2PT00041*AD	August 2005	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	2.23	8/1/2005
2PT00041*AD	August 2005	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	2.23	8/8/2005
2PT00041*AD	August 2005	001	80082	CBOD 5 day	30D Conc	10	22.	8/1/2005
2PT00041*AD	August 2005	001	80082	CBOD 5 day	7D Conc	15	22.	8/8/2005
2PT00041*AD	June 2006	001	00400	pH	1D Conc	6.5	6.4	6/16/2006
2PT00041*AD	March 2007	001	00530	Total Suspended Solids	30D Conc	12	13.	3/1/2007
2PT00041*AD	March 2007	001	80082	CBOD 5 day	30D Conc	10	11.	3/1/2007

Get New Data

Permit No.	Reporting Period	Violation Date	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported
2PT00041*AD	August 2004	8/1/2004	001	00530	Total Suspended Solids	1/Quarter	1	0
2PT00041*AD	August 2004	8/1/2004	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	August 2004	8/1/2004	001	31616	Fecal Coliform	1/Quarter	1	0
2PT00041*AD	August 2004	8/1/2004	001	80082	CBOD 5 day	1/Quarter	1	0
2PT00041*AD	August 2004	8/1/2004	001	50060	Chlorine, Total Residu	1/Quarter	1	0
2PT00041*AD	August 2004	8/1/2004	001	00400	pH	1/Quarter	1	0
2PT00041*AD	August 2004	8/1/2004	001	00300	Dissolved Oxygen	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00530	Total Suspended Solids	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00530	Total Suspended Solids	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00530	Total Suspended Solids	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00530	Total Suspended Solids	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	80082	CBOD 5 day	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	80082	CBOD 5 day	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	80082	CBOD 5 day	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	80082	CBOD 5 day	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00400	pH	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00400	pH	1/Quarter	1	0
2PT00041*AD	December 2004	12/1/2004	001	00300	Dissolved Oxygen	1/Quarter	1	0
2PT00041*AD	March 2005	3/1/2005	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	June 2005	6/1/2005	001	31616	Fecal Coliform	1/Quarter	1	0
2PT00041*AD	December 2006	12/1/2006	001	00083	Color, Severity	1/Week	1	0
2PT00041*AD	December 2006	12/8/2006	001	00083	Color, Severity	1/Week	1	0
2PT00041*AD	December 2006	########	001	00083	Color, Severity	1/Week	1	0
2PT00041*AD	December 2006	########	001	00083	Color, Severity	1/Week	1	0
2PT00041*AD	December 2006	12/1/2006	001	00530	Total Suspended Solids	1/Quarter	1	0
2PT00041*AD	December 2006	12/1/2006	001	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0
2PT00041*AD	December 2006	12/1/2006	001	01330	Odor, Severity	1/Week	1	0
2PT00041*AD	December 2006	12/8/2006	001	01330	Odor, Severity	1/Week	1	0
2PT00041*AD	December 2006	########	001	01330	Odor, Severity	1/Week	1	0
2PT00041*AD	December 2006	########	001	01330	Odor, Severity	1/Week	1	0
2PT00041*AD	December 2006	12/1/2006	001	01350	Turbidity, Severity	1/Week	1	0
2PT00041*AD	December 2006	12/8/2006	001	01350	Turbidity, Severity	1/Week	1	0
2PT00041*AD	December 2006	########	001	01350	Turbidity, Severity	1/Week	1	0

2PT00041*AD	December 2006	########	001	01350	Turbidity, Severity	1/Week	1	0
2PT00041*AD	December 2006	12/1/2006	001	80082	CBOD 5 day	1/Quarter	1	0
2PT00041*AD	December 2006	12/1/2006	001	00400	pH	1/Quarter	1	0
2PT00041*AD	December 2006	12/1/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/2/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/3/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/4/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/5/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/6/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/7/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/8/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/9/2006	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	########	001	00056	Flow Rate	1/Day	1	0
2PT00041*AD	December 2006	12/1/2006	001	00300	Dissolved Oxygen	1/Quarter	1	0