



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Rd.
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: Seneca County
Sentinel Vocational School
Sewerage

June 22, 2009

Mr. Greg Edinger, Superintendent
Sentinel Vocational School
1306 Cedar Street
Fremont, Ohio 43420

Dear Mr. Edinger:

On September 9, 2008, an inspection of the Sentinel Vocational School wastewater treatment plant (WWTP) was made. Mr. Brad Borer, Technical Supervisor/Operator, was present and provided information regarding the plants operation. Observations and recommendations noted during the inspection are as follows:

1. The plant was operating and had what appeared to be adequate aeration at the time of the inspection.
2. Current flow from the school requires that only the newer portion of the plant to be used.
3. Two sludge returns were in operation, and return liquid appeared brown in color.
4. The skimmer was operational.
5. The clarifier was observed to have some floating solids and slight solids carryover. Some solids and algae were visible in the effluent weir. The clarifier hopper walls should be scraped down daily. This should be adjusted as needed to a minimum of once per week.
6. Only the east sand filters are being used at this time with the (original) west filters available for use as needed. The southeast sand filter was in use at the time of inspection. A slight weed growth was observed. The filters should be kept free of weeds at all times.
7. Ultraviolet disinfection is provided. Disinfection is required to be provided from May through October.

A review of your discharge monitoring reports (DMRs) has also been conducted. A list of permit violations (January 2004 – May 2009) is enclosed.

A copy of the completed inspection report has been enclosed for your files. If there are any questions, please contact me at 419-373-3014.

Yours truly,

Mary Beth Cohen
Division of Surface Water
/lb

Enclosures

pc: Seneca County General Health District
Mr. Brad Borer, Technical Supervisor

~~Northwest District Office~~

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PT00017

Facility Name SENTINIAL VOCATIONAL SCHOOL Expiration Date _____

Facility Address 793 E. T.R. 201 Date 9/19/08 Time 11:45 am

City TIFFIN County SENECA Township CLINTON

Name and Address of Owner 40 GREG EDINGER, SUPERINTENDENT - 1306 CEDARS ST. FREMONT

Person Contacted BRAD BOREK, TECH SUPERVISOR/OPERATOR Phone _____

Flow: Design 12,000 GPD Present _____ GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 70° Clear

OEPA Personnel MBCohen District NWDO

1. Plant Effluent - Mark Severity No.

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: 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 _____ poor operation
 b. Plant has _____ excellent good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent 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
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
_____	_____ U.V.

Yes No

4. _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____

Chronic Violations _____

5. Adequate plant safety

6. Operation and Maintenance Service Name BRAD BOREK

Frequency of Visits _____

Facility Name: _____

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	✓	Trash Trap <i>(2 TRASH TRAPS)</i>	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	✓	Plant Timer ___Y ___N	Cycle Time:
		Motor/ Blower Unit	
Secondary Treatment	✓	Aeration Tank	Color: 5000 GPD } 2 UNITS, 1 in operation 7000 GPD } Adequate Aeration: Y ___ N ___
Final Settling	✓	Clarifier	
	✓	Sludge Return	In ✓ Out <i>2 sludge returns in operation</i>
	✓	Surface Skimmer	In ✓ Out <i>operating</i>
		Fixed Media Clarifier	
Tertiary Treatment	✓	Surface Sand Filter	<i>2 SETS of FILTERS SE filter in use - slight weed growth</i>
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	✓	Ultraviolet (UV)	<i>IN USE</i>
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	✓	Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Sentinal Vocational School NPDES 2PT00017
January 2004 thru May 2009

Final Effluent Violations

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Value	Violation Date
2PT00017*AD	April 2004	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3	17.8	4/1/2004
2PT00017*AD	May 2004	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1	28.6	5/1/2004
2PT00017*AD	May 2004	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	.045	.2165	5/1/2004
2PT00017*AD	May 2004	001	80082	CBOD 5 day	30D Conc	10	16.	5/1/2004
2PT00017*AD	June 2004	001	00530	Total Suspended Solids	30D Conc	12	12.5	6/1/2004
2PT00017*BD	May 2005	001	00530	Total Suspended Solids	30D Conc	12	13.5	5/1/2005
2PT00017*BD	May 2005	001	00530	Total Suspended Solids	7D Conc	18	22.	5/1/2005
2PT00017*BD	May 2005	001	80082	CBOD 5 day	30D Conc	10	11.	5/1/2005
2PT00017*BD	September 2005	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.75	9/1/2005
2PT00017*BD	September 2005	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	1.75	9/1/2005
2PT00017*BD	October 2005	001	31616	Fecal Coliform	30D Conc	1000	14000.	10/1/2005
2PT00017*BD	October 2005	001	31616	Fecal Coliform	7D Conc	2000	14000.	10/1/2005
2PT00017*BD	August 2007	001	80082	CBOD 5 day	30D Conc	10	11.	8/1/2007
2PT00017*BD	August 2007	001	80082	CBOD 5 day	7D Conc	15	16.	8/1/2007
2PT00017*BD	June 2008	001	80082	CBOD 5 day	30D Conc	10	21.	6/1/2008
2PT00017*BD	June 2008	001	80082	CBOD 5 day	7D Conc	15	21.	6/1/2008
2PT00017*BD	July 2008	001	00530	Total Suspended Solids	30D Conc	12	21.	7/1/2008
2PT00017*BD	July 2008	001	00530	Total Suspended Solids	7D Conc	18	42.	7/1/2008
2PT00017*BD	September 2008	001	00530	Total Suspended Solids	7D Conc	18	19.	9/1/2008