



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: Richland County
Village of Shiloh WWTP
NPDES Permit

December 22, 2008

Gloria Powers, Mayor
Village of Shiloh
P.O. Box 242
Shiloh, OH 44878

Dear Mayor Powers,

On December 10, 2008, an inspection was made of the wastewater treatment facilities serving the Village of Shiloh, located at the intersection of Euclid and Noble Road, Shiloh, Richland County. Mr. Rick Reeder, Village Administrator, and Lonnie McGhee from McGhee's Technical Water Service, were present to provide a tour and answer any questions. The inspection was completed as part of the renewal process for the Village's NPDES permit

At the time of the inspection all major treatment units were in operation. A clear final effluent was being discharged to the receiving stream. The piping from the scum collection boxes on the Imhoff tank had been replaced. The new piping flows from the boxes to the trickling filter. During wet weather the scum boxes become flooded. During these periods the flow from the scum boxes is diverted to the trickling filter. During dry weather the scum is allowed to collect in the boxes, where it is then skimmed off.

We observed the overflow from the tertiary pumping station that goes directly to the chlorine contact tank. We will require in the renewal NPDES permit that a float with alarm light be installed that activates when the level in the pumping station wet well reaches the overflow elevation. It may be possible to add this float to the existing pump station control panel.

A review of the discharge monitoring reports submitted to our office for the months of June through October 2008 revealed numerous violations of the limits contained in your NPDES permit. A printout of these violations has been included for your review. Several violations were for exceeding the fecal coliform limit contained in the permit. The effective chlorine dose and contact time should both be checked in the spring to make sure the appropriate pathogen kill is occurring.

Ms. Gloria Powers
December 22, 2008
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We also inspected the two sanitary sewer overflows within the Village sewer system. One of these overflows is at the Brick pond from a manhole just prior to the influent pumping station at the WWTP. The second overflow is located at a manhole on the south side of S.R. 603 on the west bank of the creek just east of town. This manhole had been recently replaced, however the overflow was kept. Mr. McGhee was fairly confident that the overflow could be eliminated. We recommend that an inflatable plug be inserted in the overflow. This will prevent the overflow from activating under normal conditions. Should basement backups occur upstream of the overflow, the plug could be removed easily and the system relieved. The renewal NPDES permit will include a compliance schedule to permanently eliminate both overflows.

If you have any questions please call me at 419-373-3070.

Sincerely,



Walter Ariss
Environmental Specialist II
Division of Surface Water

/csl

Enclosed

pc: 'NWDÖ-DSW file :
Rick Reeder, Village Administrator, Village of Shiloh
Lonnie McGhee, McGhee's Technical Water Services w/enclosure

OPERATION AND MAINTENANCE INSPECTOR
0.025 to 1.0 MGD

Facility Name Village of Shiloh WWTP Application No. OH 0077405
 Facility Address 3 West Noble Rd Ohio Permit No. 2 PB 08017
 City Shiloh County Richland Date 12/10 Time 1:00
 Name and Address of Owner Village of Shiloh Township _____
 Person Contacted Rick Reeder - Lonnie McGhee Phone _____
 Flow: Design 120,000 GPD Present 50,000-100,000 GPD (metered - estimated)
 Trib. Pop. _____ (actual-estimated) Weather at time of inspection Wind, Cold 25°
 OEPA Personnel Walter Ariss District NU200

STORET I.D. No. 39 _____

NOTATIONS BY EVALUATOR							
1. OPERATION AND MAINTENANCE PROBLEMS DEFICIENCIES							
CHECK EACH OF THE FOLLOWING ITEMS IN TERMS OF THEIR ESTIMATED ADVERSE EFFECTS ON THE PERFORMANCE OF THE PLANT							
ITEM	MAJOR	MINOR	NONE	ITEM	MAJOR	MINOR	NONE
STAFF COMPLEMENT			X	OVERLOADS (type)			
PERSONNEL TRAINING			X	HYDRAULIC	X		
OPERATOR BUDGET			X	PERIODIC	X		
LABORATORY CONTROL				CONTINUOUS			
INSTRUMENTATION			X	ORGANIC			X
INDUSTRIAL WASTE			X	PERIODIC			
PLANT OBSOLESCENCE		X		CONTINUOUS			
EQUIPMENT FAILURE:			X	OVERLOAD CAUSES:			
TREATMENT PROCESSES			X	INFILTRATION	X		
SLUDGE HANDLING AND PROCESSING			X	COMBINED SEWERS			
EQUIPMENT MAINTENANCE			X	INDUSTRIAL GROWTH			
SPARE PARTS INVENTORY			X	RAPID POPULATION GROWTH			
POWER FAILURE			X	INCREASED SERVICE AREA			
				OTHER:			
				OTHER:			

2. PLANT PERSONNEL INVENTORY <i>-not evaluated</i>								
PERSONNEL CLASSIFICATION (a.)	EMPLOYMENT (b.)				(c.) CERTIFICATION		TRAINING REQUIRED NEXT 12 MONTHS	
	ACTUAL		NUMBER BUDGETED	NO. RECOMMENDED	VOLUNTARY	ACTUAL NO. CERTIFIED	NEW HIRES	UPGRADE (Promotion or skill improvement)
	MANHOURS PER WEEK	NUMBER			MANDATORY			
1. MANAGEMENT SUPERVISOR								
2. OPERATOR								
3. LABORATORY								
4. MAINTENANCE								
5. OTHER PLANT WORKERS								
6. OTHER OFFICE WORKERS								
7. TOTAL								

3. PURPOSE OF INSPECTION				4. GENERAL RATING			
___ GRANT COMPLIANCE		___ FOLLOW-UP		ACCEPTABLE			
___ PERMIT COMPLIANCE		___ OTHER:		CONDITIONAL ACCEPTANCE			
				UNACCEPTABLE			
EVALUATION PERFORMED BY		TITLE		ORGANIZATION		DATE	
<u>Walter Ariss</u>		<u>ES II</u>		<u>Ohio EPA</u>		<u>12/10</u>	
INFORMATION FURNISHED BY		TITLE		ORGANIZATION		DATE	
<u>Rick Reeder</u>		<u>Village Administrator</u>		<u>Shiloh</u>		<u>12/10</u>	
<u>Lonnie McGhee</u>		<u>Contract Operator</u>		<u>MTWSE</u>		<u>12/10</u>	

GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation.

NE = not evaluated

	CONDITION OR APPEARANCE	RATING	COMMENTS
GENERAL	GROUNDS	S	area around Imhoff scum boxes had been stabilized
	BUILDINGS	S	& sealed
	POTABLE WATER SUPPLY PROTECTION	NE	
	SAFETY FEATURES	NE	
	BYPASSES	Out	
	STORMWATER OVERFLOWS	Out	
PRELIMINARY	MAINTENANCE OF COLLECTION SYSTEMS	S	Had barrels in to do small portion here to decrease in spring
	PUMP STATION	S	
	VENTILATION	S	
	BAR SCREEN	M	bars becoming very rusted
	DISPOSAL OF SCREENINGS	S	
	COMMINUTOR		
	GRIT CHAMBER		
PRIMARY <i>Imhoff</i>	SETTLING TANKS	M	rank hydraulically over loaded
	SCUM REMOVAL	S	new drain lines go to trickling filter during high flow
	SLUDGE REMOVAL	S	
	EFFLUENT	M	
SLUDGE DISPOSAL	DIGESTERS		
	TEMPERATURE AND PH		
	GAS PRODUCTION		
	HEATING EQUIPMENT		
	SLUDGE PUMPS		
	DRYING BEDS	S	Beds had been cleaned since previous inspection
	VACUUM FILTER		
	INCUBATION		
DISPOSAL OF SLUDGE	S	land application	
OTHER	FLOW METER AND RECORDER	S	
	RECORDS	S	
	LAB CONTROLS	NE	
SECONDARY-TERTIARY (LIST ITEMS AS REQUIRED)	Rock Filter	S	
	Nitrification Tower	S	
	Secondary clarifier	S	
CHLORINE	EFFLUENT	S	
	CHLORINATORS	Out	
	EFFECTIVE DOSAGE	NE	
	CONTACT TIME	NE	
	CONTACT TANK	S	

ANNUAL BUDGET FOR MAINTAINING AND OPERATING PLANT

SALARIES & WAGES	ELECTRICITY	CHEMICALS	MAINTENANCE	STAFFING & TRAINING	OTHER	TOTAL

Shiloh WWTP NPDES permit limit violations
June through October 2008

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PB00017*DD	June 2008	001	00530	Total Suspended Solids	7D Qty	11.8	13.0809	6/1/2008
2PB00017*DD	June 2008	001	31616	Fecal Coliform	30D Conc	1000	16000.	6/1/2008
2PB00017*DD	June 2008	001	31616	Fecal Coliform	7D Conc	2000	16000.	6/1/2008
2PB00017*DD	June 2008	001	00400	pH	1D Conc	9.0	9.3	6/17/2008
2PB00017*DD	June 2008	001	50060	Chlorine, Total Residu	1D Conc	0.019	.15	6/26/2008
2PB00017*DD	July 2008	001	00530	Total Suspended Solids	30D Conc	17	22.5	7/1/2008
2PB00017*DD	July 2008	001	00530	Total Suspended Solids	30D Qty	7.7	13.0173	7/1/2008
2PB00017*DD	July 2008	001	80082	CBOD 5 day	30D Conc	15	35.275	7/1/2008
2PB00017*DD	July 2008	001	80082	CBOD 5 day	7D Conc	23	28.2	7/1/2008
2PB00017*DD	July 2008	001	80082	CBOD 5 day	30D Qty	6.8	20.5288	7/1/2008
2PB00017*DD	July 2008	001	80082	CBOD 5 day	7D Qty	10.5	12.3814	7/1/2008
2PB00017*DD	July 2008	001	00530	Total Suspended Solids	7D Conc	26	68.	7/8/2008
2PB00017*DD	July 2008	001	00530	Total Suspended Solids	7D Qty	11.8	44.2693	7/8/2008
2PB00017*DD	July 2008	001	80082	CBOD 5 day	7D Conc	23	102.	7/8/2008
2PB00017*DD	July 2008	001	80082	CBOD 5 day	7D Qty	10.5	66.4040	7/8/2008
2PB00017*DD	July 2008	001	50060	Chlorine, Total Residu	1D Conc	0.019	.05	7/15/2008
2PB00017*DD	July 2008	001	50060	Chlorine, Total Residu	1D Conc	0.019	.05	7/27/2008
2PB00017*DD	July 2008	001	50060	Chlorine, Total Residu	1D Conc	0.019	.05	7/29/2008
2PB00017*DD	August 2008	001	00400	pH	1D Conc	6.5	6.2	8/5/2008
2PB00017*DD	September 2008	001	00530	Total Suspended Solids	30D Conc	17	18.2	9/1/2008
2PB00017*DD	September 2008	001	00530	Total Suspended Solids	7D Conc	26	46.4	9/1/2008
2PB00017*DD	September 2008	001	31616	Fecal Coliform	30D Conc	1000	16000.	9/1/2008
2PB00017*DD	September 2008	001	31616	Fecal Coliform	7D Conc	2000	16000.	9/1/2008
2PB00017*DD	September 2008	001	00400	pH	1D Conc	9.0	9.1	9/9/2008
2PB00017*DD	October 2008	001	31616	Fecal Coliform	30D Conc	1000	14000.	10/1/2008
2PB00017*DD	October 2008	001	31616	Fecal Coliform	7D Conc	2000	14000.	10/1/2008