



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.  
Twinsburg, Ohio 44087

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

December 29, 2008

RE: WAYNE COUNTY  
VILLAGE OF SHREVE  
3PB00021

Mr. Bruce Biggs, Superintendent  
Village of Shreve  
150 West McConkey Street, PO Box 604  
Shreve, OH 44676

Dear Mr. Biggs:

On December 17, 2008, this writer met with you to conduct an inspection of the sewage treatment plant for the Village of Shreve (Village). The intent of the inspection was to evaluate operations and maintenance of the treatment system.

At the time of the inspection, the treatment plant was producing what appeared to be a satisfactory quality effluent. Overall, the plant appeared to be in good operation. The plant consists of a bar screen, primary clarifiers, trickling filter (plastic media), secondary clarifiers, chlorination and dechlorination. The inspection of the wastewater treatment plant revealed the following:

- 1) The trickling filter distributor nozzles had some areas that were clogged and not spraying during the inspection. When this was mentioned during the inspection, you explained that the distributor arms are cleaned out on a weekly or bi weekly basis. You also explained that the Village recently obtained Issue 2 money that will be reserved toward wastewater treatment plant repairs. These repairs and rehabilitations will include the rebuilding of the trickling filters. This will not involve any change in design of the structure but will only involve the rehabilitation of the unit, filter media and distributor equipment.
- 2) A summary of the wastewater treatment plant discharge violations for the period of January 2006 through December 2008 has been attached to this letter. The Mercury Frequency violations were discussed during the inspection. The Village believes they collected all of the samples shown as missing in the attached violation list. During the inspection, a review of plant data revealed most of the missing data had had been collected.
- 3) Although plant data was reviewed during the inspection, you must review all plant data to determine which violations are accurate or if there was a reporting error by the lab or our data collection program. You indicated this review would be conducted and forwarded to this office as soon as possible. Any reporting errors or eDMR errors must be reported to this office so the error can be resolved. Another violation that was resolved shortly after the inspection was the cadmium in the sludge for December 2007. You notified our office this was an error and was actually a sample for total calcium, not cadmium. You indicated that the eDMR for December 2007 would be resubmitted into the system to retract those violations. Please contact Mr. James Roberts of this Agency's Central Office at (614) 387-3367 to discuss how to get these samples uploaded into the system directly.
- 4) The current NPDES permit contains a compliance schedule which states that, beginning 20 months from the effective date of the NPDES permit (or May 1, 2008), a final quantification level of 0.5 ng/l shall apply to all analytical results reported for mercury.

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If the permittee believes that it will not be able to consistently comply with the water quality based effluent limits for mercury included in this NPDES permit for Mercury, it shall submit one of the following to Ohio EPA:

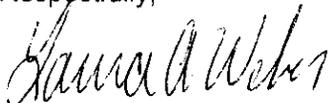
- a) If the permittee believes that it will be able to take actions leading to compliance with the water quality based effluent limits for mercury included in this NPDES permit, it may submit a request to modify the NPDES permit to include a schedule of compliance and an interim effluent limit for mercury.
- b) If the permittee determines that compliance with the water quality based effluent limits for mercury included in this permit is not possible without the construction of expensive end-of-pipe controls, a variance from the mercury water quality standards is available under section D(10) of rule 3745-33-07. If the permittee determines it is eligible, it may submit an application for coverage under this mercury variance. Section (D)(4) of the rule lists the information that must be included in the application.

To date, no letters regarding your mercury variance request have been received by the Northeast District Office of Ohio EPA. Please be aware that the Village is overdue getting the letter to our office and therefore must get this information to us as soon as possible. Our office is requesting the Village get this information to us no later than February 1, 2009.

- 5) The distribution system has one lift station and a portable generator is available for the pump stations. If any sewer backups or overflows occur in the system, they must be reported in the NPDES permit as Station 300 occurrences. It was not brought to our attention that there were any occurrences of sanitary sewer overflows in the collection system.
- 6) The plant is using gas chlorine. Due to safety hazards associated with gas chlorine, alternate disinfection methods such as liquid chlorine or ultra violet disinfection should be researched by the Village.

If you have any questions or comments regarding this letter, please contact this office at (330) 963-1299.

Respectfully,



Laura A. Weber, P.E.  
Environmental Engineer  
Division of Surface Water

LAW/mt

Enclosure: Violation List

cc: Wayne County Health Dept.  
Keith J. Rickett, Mayor, Village of Shreve

File: Public/Wayne/Shreve, Village of

## Reporting/Limit Violation

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
581	01028	Cadmium, Total In Slud	1D Conc	85	31700.	12/4/2007
001	50060	Chlorine, Total Residu	1D Conc	0.019	.06	5/1/2007
001	50060	Chlorine, Total Residu	1D Conc	0.019	.09	10/24/2007
001	50060	Chlorine, Total Residu	1D Conc	0.019	.05	10/13/2008
001	01119	Copper, Total Recovers	30D Qty	0.032	.03497	12/1/2007
001	01119	Copper, Total Recovers	30D Qty	0.032	.03304	3/1/2008
001	00300	Dissolved Oxygen	1D Conc	6.0	.63	10/22/2006
001	00300	Dissolved Oxygen	1D Conc	6.0	5.38	7/31/2007
001	00300	Dissolved Oxygen	1D Conc	6.0	5.45	11/1/2007
001	01114	Lead, Total Recoverabl	30D Qty	0.031	.03206	12/1/2007
001	00552	Oil and Grease, Hexane	1D Conc	10	10.6	6/19/2008
001	00400	pH	1D Conc	9.0	9.4	12/6/2007

## Frequency Violations:

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	80082	CBOD 5 day	2/Week	2	1	09/22/2006
001	50060	Chlorine, Total Residu	1/Day	1	0	10/01/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/02/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/05/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/06/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/07/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/08/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/09/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/12/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/13/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/14/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/15/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/16/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/19/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/20/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/21/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/22/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/23/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/26/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/27/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/28/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/29/2007
001	50060	Chlorine, Total Residu	1/Day	1	0	10/30/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	09/01/2006
001	50286	Mercury, Total (Low Le	1/Month	1	0	10/01/2006
001	50286	Mercury, Total (Low Le	1/Month	1	0	11/01/2006
001	50286	Mercury, Total (Low Le	1/Month	1	0	12/01/2006

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
601	50092	Mercury, Total (Low Le	1/Quarter	1	0	12/01/2006
001	50286	Mercury, Total (Low Le	1/Month	1	0	01/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	02/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	03/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	04/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	05/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	06/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	07/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	08/01/2007
601	50092	Mercury, Total (Low Le	1/Quarter	1	0	08/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	09/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	10/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	11/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	12/01/2007
001	50286	Mercury, Total (Low Le	1/Month	1	0	01/01/2008
001	50286	Mercury, Total (Low Le	1/Month	1	0	02/01/2008
001	00630	Nitrite Plus Nitrate,	1/Month	1	0	08/01/2007
801	00610	Nitrogen, Ammonia (NH3	1/Quarter	1	0	08/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	09/01/2006
001	00552	Oil and Grease, Hexane	1/Month	1	0	10/01/2006
001	00552	Oil and Grease, Hexane	1/Month	1	0	11/01/2006
001	00552	Oil and Grease, Hexane	1/Month	1	0	12/01/2006
001	00552	Oil and Grease, Hexane	1/Month	1	0	01/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	02/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	03/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	04/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	05/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	06/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	07/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	08/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	09/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	10/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	11/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	12/01/2007
001	00552	Oil and Grease, Hexane	1/Month	1	0	01/01/2008
001	00552	Oil and Grease, Hexane	1/Month	1	0	02/01/2008
801	00400	pH	1/Month	1	0	09/01/2007
901	00400	pH	1/Month	1	0	09/01/2007
801	00400	pH	1/Month	1	0	01/01/2008
901	00400	pH	1/Month	1	0	01/01/2008
801	00400	pH	1/Month	1	0	02/01/2008
901	00400	pH	1/Month	1	0	02/01/2008