



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769
www.epa.state.oh.us

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

April 23, 2008

RE: WAYNE COUNTY
VILLAGE OF WEST SALEM
NPDES# 3PB00053

Ms. Patricia Foradori, Clerk Treasurer
Village of West Salem
27 South Main Street
West Salem, OH 44287-0256

Dear Ms. Foradori:

On April 16, 2008, this writer, accompanied by Rich Blasick of this office met with Mr. George Hutchens to conduct an inspection of the sewage treatment plant for the Village of West Salem (Village). The intent of the inspection was to evaluate operations and maintenance of the treatment system prior to drafting the next NPDES permit.

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. Our inspection of the wastewater treatment plant revealed the following:

- 1) The influent bar screens were missing the muffin monster grinder. The grinder was down for mechanical repair and was due to be fixed within two weeks. The oxidation ditches contained a mixed liquor that was dark chocolate brown with an acceptable flocculation. The ditches both had a significant amount of foam present but this did not appear to affect the effluent quality.
- 2) The flow equalization basin was empty at the time of the inspection and appeared to be in good condition. The aerated sludge holding tank, located next to the flow equalization tank, was full and the sludge was a rich dark brown color. Prior to the inspection, one of the sludge pumps was down for repair. Operating on one sludge pump prevented the system from wasting and decanting sludge. The sludge pump was repaired and put online right before the inspection.
- 4) Two of the four final clarifiers were in service. The two center clarifiers are put into service during heavy rainfalls. The final clarifiers were in need of cleaning. The baffles were full of solids and the weirs had some solids accumulation. Mr. Hutchens indicated the solids accumulation resulted from the inability to decant from the clarifiers because one of the sludge pumps was offline for repair. The chlorine contact tank was in good condition with some visible flocculation present. The effluent was clear and the receiving stream was in good condition.

Ms. Patricia Foradori
Village of West Salem
April 24, 2008
Page 2

- 6) A summary of the wastewater treatment plant discharge violations for the period of January 2006 through March 2008 has been attached to this letter. During the inspection, Mr. Hutchens reviewed these violations and it was indicated some of the values appeared to be incorrect. A copy of the violation list was given to Mr. Hutchens at the time of the inspection so a thorough review of the list could be completed. Any sample results that are incorrect must be resent. Any reporting errors that caused a violation to occur should be reported to this office so the violation may be rescinded. You may contact Mr. James Roberts of this Agency's Central Office at (614) 644-2054 to discuss this issue directly.

In addition, frequency violations were cited during the inspection. This office would especially like to point out your lack of sampling for heavy metals in 2007. Your NPDES permit requires you to sample 2/Year for these parameters. Upon review of your sample data, there were no samples collected for 2007. If samples were collected for 2007, these frequency violations may be rescinded.

- 7) The inflow and infiltration (I/I) issue was discussed during the inspection. It was indicated that the Village hired an engineer to conduct a study of the collection system to locate potential sources of I/I. The results of the study indicated the Lea Crest Mobile Home Park to be a major contributor to the I/I problem. As a result, the Village drafted Resolution 05-42A which declared the need to levy a special assessment for the improvement of the sewer system within the MHP. Mr. Hutchens indicated the MHP and the Village have not reached a decision of which party is financially responsible for the sewer upgrades.
- 8) The proposed water treatment plant for the Village has a treatment unit which will discharge backwash water to the sanitary sewer system. Mr. Hutchens indicated this backwash water is contained within a holding tank located on site. The wastewater will slowly be released to the sanitary sewer system in order to prevent a surge to the sanitary sewer system.

Please be aware, a permit-to-install (PTI) is required whenever a wastewater collection, storage or treatment unit is proposed or if a modification is proposed to an existing treatment system. The holding tank and any wastewater treatment system proposed at the water plant must comply with the Ohio Revised Code 6111.44 and Ohio Administrative Code (OAC) 3745-42. To date, this office has not received a PTI for this project. The detail plans submitted to the Division of Drinking and Ground Waters is strictly for potable water approval.

- 9) The wastewater treatment plant reported 20 bypasses from March 1, 2007, through February 29, 2008. As such, this office is drafting a compliance

Ms. Patricia Foradori
Village of West Salem
April 24, 2008
Page 3

schedule to be included in the upcoming renewal NPDES permit. The compliance schedule will provide a timeframe for the Village to eliminate the bypasses. This may include addressing the I/I problem in the collection system, completing upgrades to the wastewater treatment plant, or a combination of these two options. As a reminder, before any wastewater treatment plant upgrades can be completed, you must first notify this office to make sure all required permits are completed.

The renewal NPDES permit for this facility is being drafted and will be public noticed in the near future. You will have 30 days from the date of the public notice to submit comments to Ohio EPA regarding the draft permit. 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

cc: Wayne County Health Dept.
George Hutchens, Chief Operator, Village of West Salem

ec: Rich Blasick, P.E., Ohio EPA, DSW, NEDO

File: Public/West Salem/PC

Violation List – Reporting Violations:

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2006	001	Fecal Coliform	Weekly Conc.	2000	10000.	5/22/2006
October 2006	001	Fecal Coliform	Weekly Conc.	2000	10000.	10/15/2006
November 2007	001	Total Suspended Solids	Monthly Conc.	30	79.2	11/1/2007
November 2007	001	Total Suspended Solids	Weekly conc.	45	104.	11/1/2007
November 2007	001	Total Suspended Solids	Weekly Conc.	45	92.	11/8/2007
November 2007	001	Total Suspended Solids	Weekly Conc.	45	131.	11/15/2007
November 2007	001	Total Suspended Solids	Monthly Load	23.2	32.2784	11/1/2007
November 2007	001	Total Suspended Solids	Weekly Load	34.8	38.1830	11/1/2007
November 2007	001	Total Suspended Solids	Weekly Load	34.8	45.1209	11/15/2007
November 2007	001	CBOD 5 day	Monthly Conc.	25	196.2	11/1/2007
November 2007	001	CBOD 5 day	Weekly Conc.	40	195.	11/1/2007
November 2007	001	CBOD 5 day	Weekly Conc.	40	345.	11/8/2007
November 2007	001	CBOD 5 day	Weekly Conc.	40	115.	11/15/2007
November 2007	001	CBOD 5 day	Weekly Conc.	40	208.	11/22/2007
November 2007	001	CBOD 5 day	Monthly Load	19.3	88.0194	11/1/2007
November 2007	001	CBOD 5 day	Weekly Load	30.9	71.5932	11/1/2007
November 2007	001	CBOD 5 day	Weekly Load	30.9	109.689	11/8/2007
November 2007	001	CBOD 5 day	Weekly Load	30.9	39.6100	11/15/2007
November 2007	001	CBOD 5 day	Weekly Load	30.9	126.752	11/22/2007
April 2007	001	Total Suspended Solids	Weekly Conc.	30	45.	4/15/2007
July 2007	001	Fecal Coliform	Monthly Conc.	1000	1388.78	7/1/2007
July 2007	001	Fecal Coliform	Weekly Conc	2000	3100.	7/1/2007
July 2007	001	Fecal Coliform	Weekly Conc	2000	10000.	7/15/2007
July 2007	001	Fecal Coliform	Weekly Conc	2000	2400.	7/22/2007

Frequency Violations:

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
June 2006	001	01220	Chrom, Diss. He	2/Year	1	0	06/01/2006
June 2006	601	00530	TSS	1/Week	1	0	06/15/2006
June 2006	601	80082	CBOD 5 day	1/Week	1	0	06/15/2006
September2006	601	00530	TSS	1/Week	1	0	09/15/2006
September 006	601	80082	CBOD 5 day	1/Week	1	0	09/15/2006
September 006	001	31616	Fecal Coliform	1/Week	1	0	09/22/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/01/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/02/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/03/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/04/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/05/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/06/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/07/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/08/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/09/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/10/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/11/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/12/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/13/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/14/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/15/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/16/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/17/2006
December 006	001	50050	Flow Rate	1/Day	1	0	12/18/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/19/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/20/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/21/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/22/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/23/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/24/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/25/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/26/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/27/2006

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
December 2006	001	50050	Flow Rate	1/Day	1	0	12/28/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/29/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/30/2006
December 2006	001	50050	Flow Rate	1/Day	1	0	12/31/2006
February 2007	001	00530	TSS	2/Week	2	1	02/22/2007
February 2007	001	80082	CBOD 5 day	2/Week	2	1	02/22/2007
April 2007	001	31616	Fecal Coliform	1/Week	1	0	04/01/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/01/2007
April 2007	001	01074	Nickel, Total Residual	2/Year	1	0	04/01/2007
April 2007	001	01094	Zinc, Total Recoverable	2/Year	1	0	04/01/2007
April 2007	001	01113	Cadmium, Total Recoverable	2/Year	1	0	04/01/2007
April 2007	001	01114	Lead, Total Recoverable	2/Year	1	0	04/01/2007
April 2007	001	01118	Chromium, Total Recoverable	2/Year	1	0	04/01/2007
April 2007	001	01119	Copper, Total Recoverable	2/Year	1	0	04/01/2007
April 2007	001	01220	Chromium, Diss. He	2/Year	1	0	04/01/2007
April 2007	001	00550	Oil & Grease, Total	1/Quarter	1	0	04/01/2007
April 2007	001	50092	Mercury, Total (Low Lev)	2/Year	1	0	04/01/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/02/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/03/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/04/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/05/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/06/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/07/2007
April 2007	001	31616	Fecal Coliform	1/Week	1	0	04/08/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/08/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/09/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/10/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/11/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/12/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/13/2007

Ms. Patricia Foradori
 Village of West Salem
 April 24, 2008
 Page 7

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/14/2007
April 2007	001	31616	Fecal Coliform	1/Week	1	0	04/15/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/15/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/16/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/17/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/18/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/19/2007
April 2007	001	50060	Chlorine, Total Residu	1/Day	1	0	04/20/2007
April 2007	001	50060	Chlorine, Total Residu	1/Day	1	0	04/21/2007
April 2007	001	31616	Fecal Coliform	1/Week	1	0	04/22/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/22/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/23/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/24/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/25/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/26/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/27/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/28/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/29/2007
April 2007	001	50060	Chlorine, Total Residual	1/Day	1	0	04/30/2007
November 2007	001	00530	TSS	2/Week	2	1	11/01/2007
November 2007	001	80082	CBOD 5 day	2/Week	2	1	11/01/2007
November 2007	001	00530	TSS	2/Week	2	1	11/08/2007
November 2007	001	80082	CBOD 5 day	2/Week	2	1	11/08/2007
November 2007	001	00530	TSS	2/Week	2	1	11/15/2007
November 2007	001	80082	CBOD 5 day	2/Week	2	1	11/15/2007
November 2007	001	00530	TSS	2/Week	2	1	11/22/2007
November 2007	001	80082	CBOD 5 day	2/Week	2	1	11/22/2007
December 2007	001	01074	Nickel, Total Recoverable	2/Year	1	0	12/01/2007
December 2007	001	01094	Zinc, Total Recoverable	2/Year	1	0	12/01/2007
December 2007	001	01113	Cadmium, Total Recoverable	2/Year	1	0	12/01/2007

Ms. Patricia Foradori
Village of West Salem
April 24, 2008
Page 8

<u>Reporting Period</u>	<u>Station</u>	<u>Reporting Code</u>	<u>Parameter</u>	<u>Sample Frequency</u>	<u>Expected</u>	<u>Reported</u>	<u>Violation Date</u>
December 2007	001	01114	Lead, Total Recoverable	2/Year	1	0	12/01/2007
December 2007	001	01118	Chromium, Total Recoverable	2/Year	1	0	12/01/2007
December 2007	001	01119	Copper, Total Recoverable	2/Year	1	0	12/01/2007
December 2007	001	01220	Chromium, Dissolved He	2/Year	1	0	12/01/2007
December 2007	001	50092	Mercury, Total (Low Level)	2/Year	1	0	12/01/2007