



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director



11Y0031020110825

CHAMPAIGN CHRISTIANSBURG WATER WORKS

REYNOLDS, JOSEP | 2011/08/25



**Environmental
Protection Agency**

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

August 25, 2011

Mayor Harvey Zimmerman
Village of Christiansburg
P.O. Box 115
Christiansburg, Ohio 445389

**RE: Christiansburg WTP Reconnaissance Inspection, NPDES Permit No.
1IY00310 / OH0137685**

Dear Mayor:

I am writing in follow-up to my August 23, 2011 Reconnaissance Inspection at the Christiansburg Water Treatment Plant, 115 N. Wilson Road, Christiansburg, Ohio. The inspection was conducted as part of the National Pollutant Discharge Elimination System (NPDES) permit compliance review.

The inspection findings are included in the attached report. There are two items that require a written response. The response dates are noted.

If you have any questions, please call me at (937) 285-6097.

Sincerely,

Joseph Reynolds
Division of Surface Water

Enclosure

cc: Champaign County Health Department
Scott Taylor, Operator of Record



State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report

Section A: National Data System Coding					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
11Y00310*AD	OH0137685	8/23/2011	R	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Christiansburg WTP 115 N. Wilson Road Christiansburg, Ohio	9:00 AM	8/1/2007
	Exit Time	Permit Expiration Date
	9:45 AM	7/31/2012
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Scott Taylor, Operator of Record	(937) 313 - 2490	
Name, Address and Title of Responsible Official	Phone Number	
Harvey Zimmerman, Mayor Village of Christiansburg 115 West Second Street Christiansburg, Ohio 45389	(937) 857 - 9094	

Section C: Areas Evaluated During Inspection					
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)					
S	Permit	M	Flow Measurement	N	Pretreatment
S	Records/Reports	N	Laboratory	N	Compliance Schedule
S	Operations & Maintenance	S	Effluent/Receiving Waters	S	Self-Monitoring Program
S	Facility Site Review	N	Sludge Storage/Disposal	N	Other
N	Collection System				

Section D: Summary of Findings (Attach additional sheets if necessary)
See attached report.

Inspector	Reviewer
<i>Joe Reynolds</i> 8/25/11	
Joe Reynolds Division of Surface Water Southwest District Office	Martyn Burt Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office
Date	Date

Christiansburg WTP Inspection Findings

The Village of Christiansburg current holds NPDES permit number 11Y00310*AD. This permit is for the direct discharge of filter back wash water from the village's water treatment plant.

The village's NPDES permit will expire on July 31, 2012. A renewal permit application must be submitted at least six months prior to the permit expiration date.

The water treatment plant is an iron and manganese removal system. Back wash water from the water treatment system is sent to two red water filters (29' x 29'). From the filters waste water enters a dechlorination tank (tablet dechlorination system) with sonic level sensor. The sensor records flows going to the storm sewer and ultimately the West Fork of Honey Creek.

The system was designed to include ion exchange treatment as needed. To date this system has not been installed.

There are four water treatment filters at the facility. Each filter is back washed once per week. The filters are back washed for about 30 to 40 minutes. Approximately 1,200 gallons of back wash water is generated per filter per back wash.

There are two red water filters at the plant. The village has been experimenting with different size sand to improve the filter performance. Two inches of new sand was added to the filter in use. The filter efficiency was improved. A similar upgrade will be made to the filter off-line.

The dechlorination / flow meter structure is open to the weather. There was some debris and plant growth in the chamber. Enclosure of the structure would protect it from foreign materials and the weather.

The final effluent sonic flow meter has experienced problems in recording consistent flows. The exact cause of the interference is unknown. The meter will be recalibrated in the near future.

Christiansburg WTP Inspection Findings (Continued)

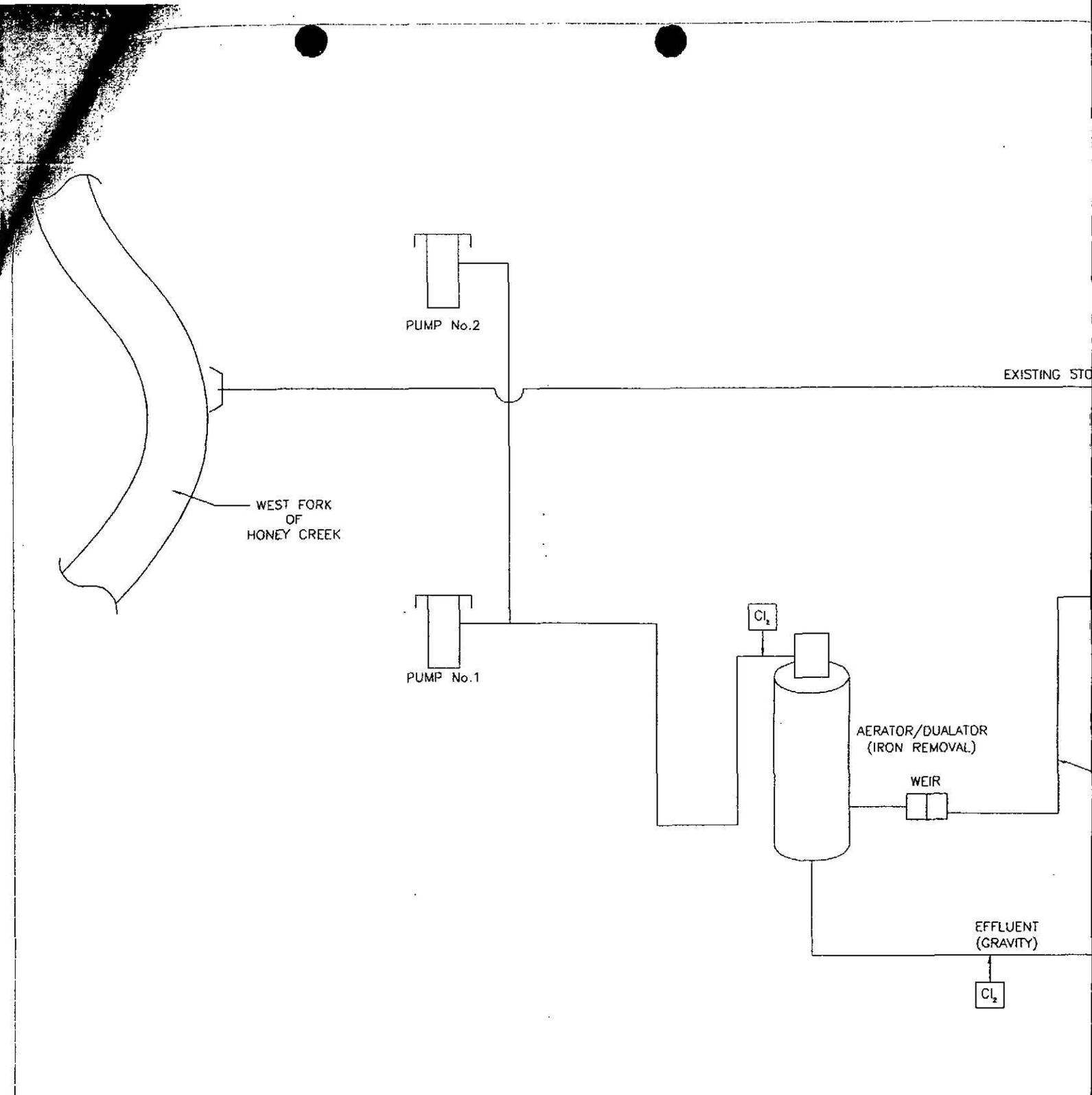
Currently there is no chlorination ahead of the treatment system. Chlorine may be used in the future to improve filter performance.

An operator's log book is being maintained. This book is used to record operations and maintenance activities.

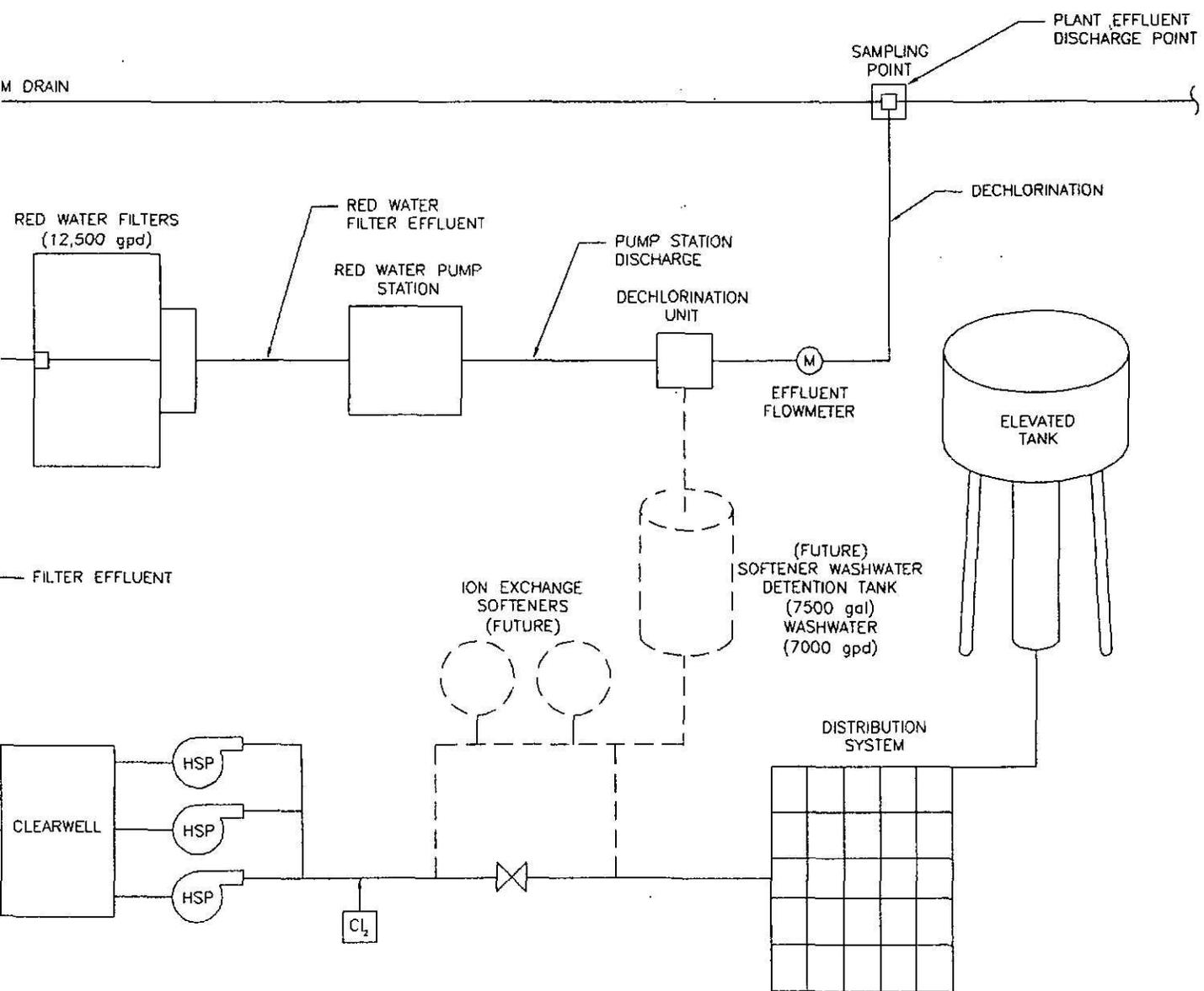
Between January 1, 2010 and July 1, 2011 the village reported six suspend iron and four suspend solids final effluent limitation violations. During this same time period one chlorine and one dissolved oxygen frequency violations were recorded.

Items Requiring a Response

1. Please provide written verification as to the date the flow meter was recalibrated. This response should include any findings as to possible interferences to the function of the meter. The response must be provided by no later than September 30, 2011.
2. Please provide a written update detailing the work performed on the sand filters in regard to the amount and gradation of sand added to the red water filters. This response must be provided by no later than September 30, 2011.



**REDWATER
WASHWATER
SYSTEM SCH**
(SHOWING PLANT OF



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