



CHAUTAUQUA COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

HALL R CLOTHIER BUILDING MAYVILLE, NEW YORK 14757-1027
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Director of Environmental Health Services

October 7, 2008

Mayor David Carr and Village Board
Village of Westfield
23 Elm Street
Westfield, NY 14787

Re: 2008 Sanitary Survey of Water Supply
Village of Westfield

Dear Mayor Carr:

On September 30, 2008 I performed a sanitary survey of the Village of Westfield's water system with Wayne Cardy, Joe Yacklon, and Lynne Vilardo. The purpose of the survey was to determine compliance with Part 5 of the New York State Sanitary Code, which regulates all public water supplies.

The survey consisted of a discussion of pertinent water supply issues including water system operation and monitoring issues, and inspections of the Minton Reservoir, treatment plant, clearwell, and storage tank. The water system is well operated and several improvements have been made since last year's inspection; however, there are several issues that must still be addressed to ensure that the water system is in compliance with New York State and federal standards.

WATERSHED / MINTON RESERVOIR: Watershed Rules and Regulations were updated by the Village in 1990 but were never adopted by the State. These regulations need to be reviewed by the Village and updated as needed, then submitted to the County Health Department along with a copy of a Village Board resolution that approves the rules and regulations and that requests the NYS Commissioner of Health enact them.

Annual watershed inspections have not been conducted by the Village since 2006. These inspections are required by your existing Watershed Rules and Regulations. Westfield is in violation of the New York Code of Rules and Regulations (NYCRR) Title 10, Section 105.3(h) for failing to perform regular inspections of its watershed, and provide an annual report to the Chautauqua County Department of Health. The Village must prepare a plan to conduct these inspections in the entire watershed, not just on property owned by the Village. Our Department will assist where possible to develop an inspection plan.

Mr. Cardy indicated that the intake in Minton Reservoir will be inspected prior to the deadline date of December 31, 2008 by the Chautauqua County Sheriff's Department while performing a cold water rescue drill.

TREATMENT PLANT: An inspection of the treatment plant concluded that, per this Department's requirements from last year's inspection, an air gap was installed on the finished water line to the carbon mixing tank, the finished water line to the filter drains were cut and capped, and the switch for the

ventilation system for the powdered activated carbon room was activated. Therefore, all issues with the water treatment plant have been addressed and at the time of the inspection there were no violations of Part 5. The following are requirements from last year's inspection and this Department's response in regards to the plan the village is taking.

STORAGE TANK / CLEARWELL: During a discussion regarding the storage tank, this Department learned that through a Southern Tier West/USDA \$20,000 grant the village is hiring Stearns and Wheler, a consulting engineering firm, to evaluate options for addressing the issues with the tank. Included in the evaluation is the possibility of abandoning the existing tank if it is too cost prohibitive to install the piping/equipment necessary in order for the tank to "float on the system" and to paint and repair the concrete as needed. This Department supports this decision and feels that hiring a consultant is definitely the correct course of action to take. Last year's requirements and responses include the following:

1. *The tank must be inspected and cleaned by December 31, 2008.* This Department strongly feels that the tank should still be inspected. The engineering firm will likely need results of a detailed inspection for determining a proper course of action.
2. *The storage tank must be returned to proper operational status by June 30, 2009. An engineer will need to be engaged for this issue and it is encouraged that reference be made to the recommendations in the report.* This Department will extend this deadline date to June 30, 2010. Feel free to contact this Department if you should need consultation and please submit a copy of the engineering report to this Department for review once received.

This year's inspection of the clearwell revealed a new issue that must be addressed. The vents pipes over the clearwell must have #24 mesh screens that are made of non corrodible material to protect the finished water from insects and pests. This must be completed by June 30, 2009.

BLISS STREET PUMP STATION: *These issues must be addressed by December 31, 2008:*

1. *Proper pipe supports must be installed.* Completed.
2. *The pump base plates must be grouted.* Completed.
3. *An alarm and autodialer must be installed to notify water system personnel of pump station failure.* The village is in the process of evaluating an autodialer and alarm at the wastewater plant. Its installation at the pump station will depend on the results of the evaluation.
4. *It is strongly recommended that the Schedule 40 PVC piping in the pump station be replaced with flanged ductile iron.* The Schedule 40 PVC pipes were replaced with Schedule 80, which is satisfactory.

DISTRIBUTION SYSTEM: Westfield's distribution system has the following issues in 2007.

1. *Westfield experienced a large break this past autumn in the 16-inch water main from the treatment plant. While repairing the main, the main was found to be an inadequate class of ductile iron pipe and any repair to it should only be considered temporary. It is strongly recommended that the village evaluate replacement of this water main in the near future.*
2. *The village must evaluate methods of reducing the amount of unaccounted-for-water. Please refer to the report for specific details.*

The village must still continue to perform the above evaluations.

Westfield's water system is operated very conscientiously; however, the village must make the necessary improvements to ensure the consumers are consistently provided with water that meets state and federal standards. Should you have any questions concerning the survey or any other matters, please feel free to contact me at 753-4481.

Very truly yours,



Paul S. Snyder
Engineer II

Pc. Mr. Wayne Cardy, Chief Water Operator
Mr. Joe Yacklon, Water and Sewer Superintendent
Mr. David Rowley, P.E., NYSDOH
Mr. Gregory Edwards, County Executive

Public Water System Name WESTFIELD VILLAGE		Date 09/30/2008 MM DD YYYY	Begin Time 10:00	End Time :	Source type <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Ground <input type="checkbox"/> GWUDI
Street Address ELM ST		Town, Village, or City WESTFIELD	County CHAUTAUQUA		
PWS # ID N Y 0615782		PWS Type <input checked="" type="checkbox"/> C <input type="checkbox"/> NC <input type="checkbox"/> NTNC <input type="checkbox"/> NP	Field Visit Type <input type="checkbox"/> Partial Inspection <input type="checkbox"/> Pre-operational <input type="checkbox"/> Complaint <input type="checkbox"/> Incident/Illness <input type="checkbox"/> Reinspection <input checked="" type="checkbox"/> Sanitary Survey		Disinfection Waiver Issued? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Part 5 Subsection	Summary Description of Sanitary Code Requirement	SDWIS	STAT	Part 5 Subsection	Summary Description of Sanitary Code Requirement	SDWIS	STAT
5-1.12(a)	Appropriate actions are taken in response to deteriorating source water quality or diminished effectiveness of treatment w/potential for MCL violation.	SA	1	5-1.12(b) or 5-1.75(a)	Conduct sanitary survey or sampling as required. Special monitoring requirements (comment below).	NS	1
5-1.22(a)	Obtain health department approval prior to the construction or modification of a water system.	SB	1	5-1.23(a)	Obtain health department approval prior to use of an emergency water supply or alteration of a treatment process necessary to protect public health.	SD	1
5-1.23(b)	Unplanned or inadequately planned distribution of water service to a minimum of 25 individuals or 15 service connections or a minimum of one percent of the total number of served or service connections for a period of four hours or more.	SE	1	5-1.23(c)	Conspicuous posting of Sanitary Code Section "5-1.23 Reporting Emergencies."	SF	1
5-1.25	Disinfect repaired facilities before returning to service.	SG	1	5-1.28	Protect blowoff or discharge pipes from flooding.	SI	1
5-1.27	Maintain distribution system pressure (20 psi).	SH	1	5-1.30(b)(3)	Any system that recycles spent filter backwash water, thickener supernatant, or liquids from the dewatering process must return these flows through the process of a system's existing conventional or direct filtration system.	40	4
5-1.30(a)	Disinfection of a groundwater source.	ND	4	5-1.30(e)	A waiver from disinfection is issued for a period of three years pursuant to Subparts (e)(1) - (e)(6).	ND	4
5-1.30(b)	Filtration of a surface source and groundwater influenced by surface water unless avoidance criteria met.	42	1	5-1.31(a)(3)	A record of cross connection control program is maintained by supplier of water.	SJ	1
5-1.30(b)	Disinfection of a surface water source or groundwater source influenced by surface water.	41	1	5-1.33(a)	Water supply emergency plan available for system >3,300 population.	SK	1
5-1.30(b)(2)	Free chlorine residual disinfection concentration in surface water or groundwater under the influence of surface water entering the distribution system cannot be less than 0.2 mg/l for more than four hours.	41	1	5-1.40	Provide optimal corrosion control treatment or complete applicable corrosion control requirements.	58	1
5-1.30(g)	Maintain free chlorine residual at representative points in the distribution system.	NR	1	5-1.63	Operate conventional filtration systems to control precursors or apply for alternative removal requirement.	46	1
5-1.31	Protect the water distribution system from the creation of cross connections of sufficient hazard to adversely affect the health of water consumers.	SJ	1	5-1.72(b)	Operator certified pursuant to Subpart 5-4.2.	12	1
5-1.32	Adequate post disinfection for uncovered reservoir.	47	4	5-1.72(c)	Complete daily records of operation of a water system.	09 10	1
5-1.71(a)	Exercise care and due diligence in the maintenance and/or supervision of all sources of the public water system to provide water of a sufficient quantity and quality.	SN	1	5-1.72(d)	Maintain records (e.g., sample results, reports, filter backwash recycle flow information).	09	1
5-1.71(b)	Exercise care and due diligence in the operation and maintenance of a public water system. Water system facilities approved by the State shall be operated in accordance with their design unless otherwise authorized.	SO	1	5-1.72 (e)	Provide an Annual Water Quality Report (for year _____).	71	1
Have all outstanding violations been resolved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explain: 5-1.72(b) - The operator has obtained his license renewal.				Chlorine Residual _____ mg/L. Sample Collection Time _____ : Point of Collection: _____ Chlorine Residual _____ mg/L. Sample Collection Time _____ : Point of Collection: _____			

Remarks:

Completed by: Paul Snyder Date: 10/7/08

Received by: mailed to: Mayor Carr, Wayne Cardy, Joe Yacklon Date: 10/7/08

Status Codes: 1. No Violations Observed; 2. All or parts of an item in violation; 3. Item was not reviewed/observed; 4. Item not applicable; 5. Item (s) corrected during inspection.