

## Water System Inspection Report

### Inspection Information

Facility Name:	Stewart Community Water System
Facility Number:	
Officer:	Shane Wadden
Inspection type:	Routine
Inspection date:	June 17, 2015
Follow-up Inspection Required:	Yes
Hazard Rating:	Low

### Critical Hazards

These items relate to public health or safety, and must receive immediate attention.

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### Operation & Maintenance

These items must be corrected within a designated time period.

#### 313 - Inadequate treatment

Observation: The distribution system is at risk. Water pressures cannot be maintained in all situations, older infrastructure and water loss indicate potential breaks or structural integrity issues with distribution lines, and a percentage of the water lines are at or below the water table for at least a portion of the year. All of these items create increased risk for intrusion of pathogens into the distribution system.

Correction: A variety of options are available to address identified concerns to decrease the potential for pathogen impact on the water distribution system. Addressing ways to maintain pressure, reduce structural integrity issues and to incorporate residual disinfection will provide added security and safety for this system. It is strongly recommended that residual disinfection be incorporated to add an additional barrier to potential pathogen impact on the distributed water; especially during unexpected situations.

#### 319 - Inadequate Chemical Analysis Data

Observation: As a permit condition of operation a chemical sampling is required a minimum frequency of every 5 years, or sooner at the request of the Environmental Health Officer.

Correction: A sample, testing for identified Northern Health core chemical/physical parameters, is required for all 3 sources. Samples are to be submitted to an accredited lab for testing by July 15, 2015. Permit condition to be updated to state the following. "Chemical sampling is required a minimum frequency of every 5 years, or sooner at the request of the Environmental Health Officer to provide chemistry analysis a minimum of every 3 years".

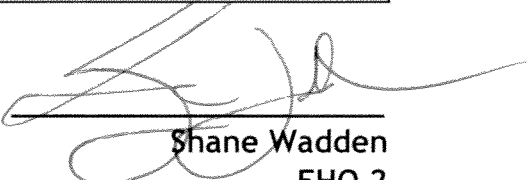
### Comments

A supplementary report was provided to support inspection findings and as a follow up to the recently provide Public Health Engineering report. Prior to and during the inspection the recently supplied

engineering report, supplied by Northern Health's Public Health Engineer, was reviewed and timelines were agreed upon for a variety of actions. These actions are meant to address identified concerns and to increase the safety associated with the water system from source to distribution. A variety of short and long term goals were discussed.

Reports should be reviewed and any suspected delays, based on agreed upon timelines, should be addressed with the Environmental Health Office prior to the identified date. All completed actions should be reported to the Environmental Health Officer upon completion.

One operating permit condition states that "Turbidity shall be maintained at a maximum level of 1 NTU in accordance with the Guidelines for Canadian Drinking Water Quality". There is currently no way of measuring this continuously. Further discussions with Environmental Health Officer are to take place to assess removal or addressing of this condition.



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Shane Wadden  
EHO 2  
*June 22/15*