

Stewart Community Water System Inspection – Supplementary Report

Purpose: To supplement the following information provided:

1. *PHE Water Field Inspection Stewart CWS 17 Feb 2015 and*
2. *Inspection for the Stewart Community Water System on June 17, 2015.*

This report is to provide guidance and act as the initial step in tracking short and long term improvements for the community water system. The following are recommendations from the Northern Health Environmental Health Officer and provide a variety of options to ensure the continued delivery of safe water to the community.

Action Items:

	Discussion Item	Recommendations	Agreed upon timeline for completion	Completion Date
1	Water consumption	Investigation of why water consumption is so high. Research the feasibility of having an acoustic survey conducted.	August 31, 2015	
2	Water consumption	Investigation of why water consumption is so high. Have flow meters calibrated to ensure that proper measurements of flow are being recorded	August 31, 2015	
3	Water consumption	Provide a history of meter records for a complete calendar year. Identify any daily/weekly/monthly/annual trends that may be apparent.	July 01, 2015	
4	Public education campaign about water usage	Work with Northern Health to develop a brochure about water conservation. Distributed information should be easy to read and understand for the general public.	August 01, 2018	
5	Register wells with Ministry of Environment so that they appear	Complete provided Schedule 2 forms for each source (3 wells) and submit to Ministry of Environment.	June 26, 2015	

	on the provincial database			
6	Updating of Emergency Response Plan	Ensure that an annual update of the Emergency Response Plan is completed and forwarded to the Environmental Health Officer for review and acceptance	September 30, 2015	
7	Updating of Emergency Response Plan	Review the current Emergency Response Plan and ensure that there is prepared emergency response in place for a potential hazardous substance spill. The highway into town is in close proximity to Wells 1 and 2.	September 30, 2015	
8	Wellhead protection areas for wells	Establish and be aware of proposed wellhead protection area to prevent actions from occurring in this area that could potentially impact the safety of the water supply	Immediately	
9	Evaluate the need for primary disinfection. Lack of information available for Well 1 and Well 2	Search and forward additional information (well logs, past reports, well depth measurement, etc) that may provide additional information that was not identified in the recently provided engineering report.	2-3 years	
10	Evaluate the need for primary disinfection. Lack of information available for Well 1 and Well 2	Consult companies about performing a Microscopic Particulate Analysis (MPA) of wells to provide additional information about potential impact of surface waters on each individual source.	July 15, 2015	
11	Further evaluate the need for secondary disinfection	Provide professional information supporting why residual disinfection is not necessary or have a plan in place to institute residual disinfection within the distribution system.	2 years	

12	Maintenance of pressure in the distribution line	Investigate the feasibility of building a reservoir to provide equalisation storage, emergency storage and fire storage. A reservoir would prevent drops of pressure in the distribution system when pump operation is interrupted	Evaluate need by 2017	
13	Maintenance of pressure in the distribution line	Investigate the feasibility of providing a backup generator for Wells 1 and 2 to maintain pressures during power outages. The generator should activate automatically and not manually if possible to prevent losses in pressure during the power outage.	September 2015	
14	Distribution map updates	Update distribution map to include location of sampling points and well locations. Forward electronically upon completion to both the Public Health Engineer and the Environmental Health Officer	July 31, 2015	
15	Sampling updates	Evaluate the feasibility of purchasing bacteriological testing equipment so that audit samples can be assessed in house. This will provide additional sample information and provide another source of testing information when required.	October 31, 2015	
16	Engineering Report	Review and address additional requests for information identified in the recently supplied Public Health Engineering Report	Ongoing	
17	Annual disinfection and flushing of disinfection system	Annual disinfection and flushing program to be instituted.	October 31, 2015	
18	Annual Water Report	Complete an annual report for the water system within 6	Annually	

		months of the end of the calendar year. Follow provided information and have a report completed by		
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These actions address identified concerns and, if incorporated, will enhance the performance of the water system in a variety of means. The goal is to increase the safety associated with the water system from source to distribution.

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. This report is not inclusive and there may be other items present in the *PHE Water Field Inspection Stewart CWS 17 Feb 2015* that are not addressed in this report.

Shane Wadden, C.P.H.I

Environmental Health Officer (EHO) – Northern Health