



# Interior Health

Health Protection *Less Risk ~ Better Health*

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JAN 27 2014

January 17, 2014

Village of Radium Hot Springs  
Village of Radium Hot Springs Water Treatment Plant  
PO Box 340  
Radium Hot Springs, BC V0A 1M0

Dear Mark Read:

**Re: BC Drinking Water Treatment Objectives (Microbial) for Surface Water**

In April 2012 the BC Ministry of Health released specific criteria for treatment of surface water sources under the *Drinking Water Protection Act*<sup>65</sup>. In implementing these criteria Interior Health (IH) – Health Protection has assessed all surface water treatment plants serving large water supply systems in our region. This assessment is necessary to confirm that the actions and decisions taken under previous IH policies (e.g. 43210 treatment objectives) are consistent with the new provincial standard.

The results of our assessment for your water treatment system are attached. Note that this assessment is focused solely on existing treatment infrastructure and its ability to meet the provincial objectives for treating surface water. It does not reflect the other elements of a multi-barrier approach (e.g. operations, monitoring, and secure distribution), all of which are necessary for tap water to be considered safe.

We will make the results of our assessments of all large water system treatment plants available to the public through our website this spring. If you have questions about the provincial treatment objectives, have additional information to provide, or wish to request reconsideration of these results prior to posting, please contact us at the address, phone number, or e-mail below **by March 3<sup>rd</sup>, 2014**.

Sincerely,

Laurie Bourdin  
On behalf of  
J. Ivor Norlin, Manager Infrastructure Programs

JIN/ljb

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<sup>65</sup> Details on the BC Drinking Water Treatment Objectives for Surface Water are available on the Ministry of Health website at [www.health.gov.bc.ca/protect/dw\\_treatment-objectives.html](http://www.health.gov.bc.ca/protect/dw_treatment-objectives.html).

**January 2014 Assessment Results  
for BC Drinking Water Treatment Objective for Surface Water**

Interpreting Assessment:

The treatment facility is considered to have the capacity to meet provincial drinking water treatment objectives for surface water when questions 1, 2 and 3 are answered 'yes' and either question 4 or 5 are 'yes'.

<b>Water System Name:</b>	Village of Radium Hot Springs Water System
<b>Treatment Facility Name:</b>	Village of Radium Hot Springs Water Treatment Plant
<b>Question 1:</b> Does the treatment facility provide adequate inactivation or removal of viruses?  <b>Reason</b>	Yes  Yes, a combination of filtration and chlorination
<b>Question 2:</b> Does the treatment facility provide adequate inactivation or removal of Giardia and Cryptosporidium?  <b>Reason</b>	Yes  Yes, A combination of filtration and UV
<b>Question 3:</b> Does the treatment facility provide two forms of treatment?  <b>Reason</b>	Yes  Yes, filtration and one (1) other form of disinfection
<b>Question 4:</b> Does the treatment facility provide filtration that can achieve log credit(s) for pathogen removal?  <b>Reason</b>	Yes  Yes, filtration method receives credits in GCDWQ Guideline Technical Documents – Turbidity
<b>Question 5:</b> Have the following Exclusion of Filtration Criteria been demonstrated? 1. Acceptable numbers of coliforms in raw water 2. Average daily turbidity levels just prior to disinfection ~1 NTU or within performance target. 3. Watershed control program for minimizing fecal contamination  <b>Reason</b>	n/a        n/a
<b>Treatment meets BC Drinking Water Treatment Objectives</b>	Yes
<b>Drinking Water Officer comments</b>	The water treatment system meets the BC Drinking Water Treatment Objective for Surface Water.