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## BOIL WATER ADVISORY

### Lyall Harbour Boot Cove Water Service - Saturna Island

**Feb 13, 2019 (UPDATE)** - CRD Integrated Water Services, in consultation with Island Health, advises that the residents of the following area should continue to BOIL their drinking water until further notice:

#### **All properties on the Lyall Harbour Boot Cove Water System on Saturna Island**

The turbidity in the treated water remains elevated as a result of high turbidity water originating from the raw water source.

**What is going on?** The community's water supply comes from two sources – the Money Lake Reservoir and a groundwater spring. Due to the dry weather experienced during the fall of 2018, the groundwater spring source, which is typically low in turbidity, dried up before this event and the source was exclusively the Money Lake Reservoir for an extended period of time. Due to the natural lake turnover process that occurs seasonally, sediments from the bottom of the lake were stirred up. In addition, the sunny weather experienced this fall resulted in increased biological activity in the Lake. This combination resulted in an increase in raw water turbidity. Precipitation in November replenished the groundwater spring source and the raw water source was converted to the spring on November 23. However, the water treatment plant operation is still being optimized to reduce the treated water turbidity to less than the 1.0 NTU limit required for potable water.

**What has the CRD been doing to mitigate this issue?** The CRD has taken a number of steps to mitigate this issue: Complete flushing of all raw water piping and tanks; replacement of the filter media in one set of filters and augmentation of media in the other set of filters in the water treatment plant; adjusted treatment flow to optimize filtration; and converted from Money Lake raw water to groundwater spring raw water which was made possible by the onset of winter precipitation. The CRD completely replaced the media in the second set of filters which were found to be 'short-circuiting' flow, impacting the effectiveness of the filtration process. Several valves were also replaced in the treatment plant to ensure appropriate isolation of treated water.

**What are the next steps?** In addition to the steps taken to date, the CRD will be installing a polishing filter following the multi-media filters to remove the fine particles that are currently in the raw water, and not being removed by the existing filters. Unfortunately, this work is delayed to due to weather and

shipment of the filter and pump. It is now planned to complete this work by February 22. These improvements are expected to reduce the treated water turbidity levels.

The Boil Water Advisory will remain in effect until turbidity levels in the treated water decrease to acceptable and stable levels and treated water samples are collected, analyzed and confirm that the water is safe.

For information updates regarding this advisory, please visit [www.crd.bc.ca](http://www.crd.bc.ca)

For more information on boil water advisories, please visit: [www.islandhealth.ca/boilwater](http://www.islandhealth.ca/boilwater)

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## **Boil Water Advisory Information**

### **Is it necessary to boil all tap water in the home during a Boil Water Advisory?**

During a Boil Water Advisory, boil all tap water used for drinking, preparing food, beverages, ice cubes, washing fruits and vegetables, or brushing teeth. As an alternative, use bottled water for some of these purposes.

### **How should tap water be boiled properly?**

Fill a pot with tap water (or an electric kettle without an automatic shut-off) and bring it to a rolling boil for 1 minute. This will kill all disease-causing organisms. If children present, place the pot on the back burner to avoid scalds. Boil only as much water in the pot as you can comfortably lift without spilling. Then cool the water and pour it into a clean container or refrigerate it until you are ready to use it. Discard all ice made previously and disinfect the ice cube trays. Make ice using boiled, cooled water.

### **I have a water treatment device, do I still need to boil my drinking water?**

If the device is designed to only improve the taste and odour or chemical quality of the water, such as activated carbon filters, it is still necessary to boil the water. Devices designed to disinfect the water (such as a UV light unit) may be used as an alternative to boiling.

### **Can I take a shower or bath?**

Adults, teens and older children can wash, bathe, or shower. However, they should avoid swallowing the water. Toddlers and infants should be sponge bathed.

### **I have a dishwasher. Is it safe to use?**

If your dishwasher has a hot setting, it safely disinfects dishes. However, if your dishwasher does not have a hot setting, after finishing the cycle, soak dishes for 1 minute in a solution of 1oz (30 ml) of bleach mixed with 3 gallons of lukewarm water (13.5 litres). Let dishes air dry.

### **I wash dishes by hand. How do I disinfect them?**

You can use boiled water for washing dishes or simply rinse them with boiled water after washing them with soap and hot water.

### **Should I change the way I am doing laundry?**

No, continue doing laundry the way you usually do.

### **Is the water safe to fill wading pools for children?**

No, the water is not safe to use in wading pools. Water usually gets into the mouths of small children, providing a possibility for infection.

## **My doctor told me I am immuno-compromised. What should I do?**

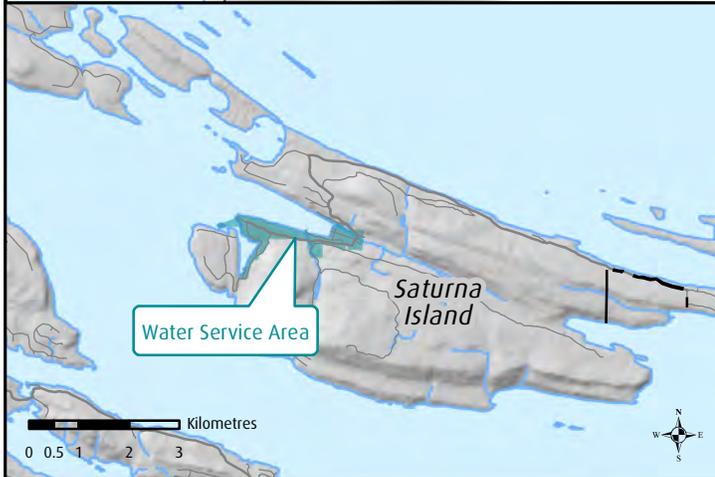
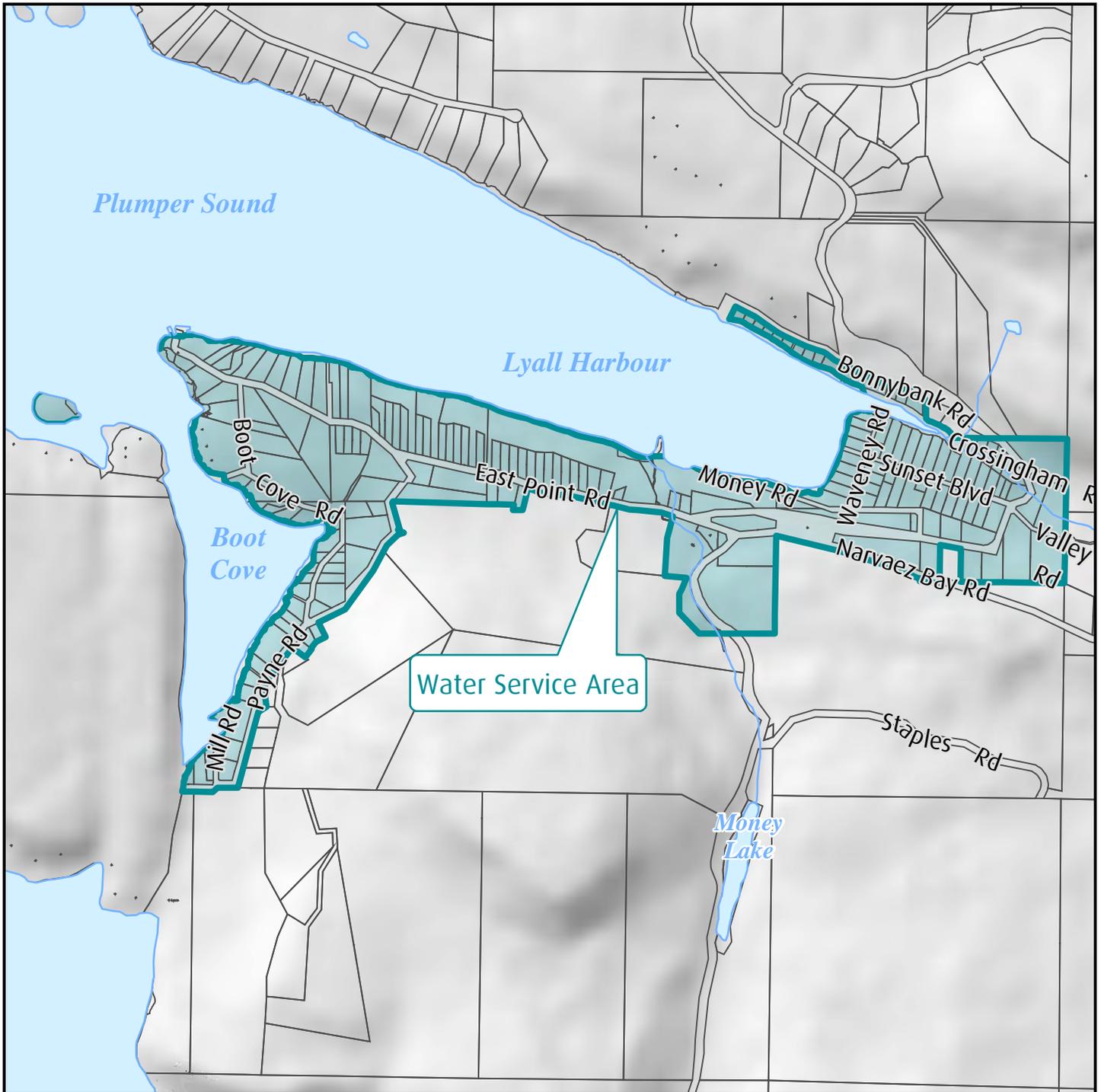
Severely immuno-compromised individuals should always boil their tap water for the purposes noted above. Infant formulas should be prepared using boiled tap water, at all times.

## **What is the process and conditions required to discontinue the boil water advisory?**

The Boil Water Advisory (BWA) can be discontinued only after the following conditions are met:

1. All corrective actions such as system repairs (if required) and system flushing have been completed and the entire service area is receiving treated and disinfected water.
2. Two consecutive sets of system wide samples collected at least 24 hours apart have satisfactory bacteriological results. The lab analysis of each bacteriological sample set takes 24 hours.
3. The Chief Medical Health Officer of the Island Health Authority is satisfied that no health hazard exists in the system.

The actual time line until the BWA discontinue notification is dependent on the duration of all corrective actions, the sample collection, sample transport, sample analysis and the possibility of a repeat of all steps in case of a failure of any of the samples.



## Lyall Harbour / Boot Cove Water System



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1:16,000  
0 50 100 200 300 Metres

UTM Zone 10N NAD 1983



### DISCLAIMER

This map is for general information only and may contain inaccuracies.

June 2018 | LS\_LyallHarbourBootCoveWater\_Location.mxd | helpdesk@crd.bc.ca