



# Alberni-Clayoquot Regional District

## BEAVER CREEK WATER COMMITTEE MEETING

OCTOBER 7, 2013, 7:00PM

Regional District Board Room, 3008 Fifth Avenue, Port Alberni, BC

### AGENDA

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	PAGE #
1. <b><u>CALL TO ORDER</u></b>	
2. <b><u>APPROVAL OF AGENDA</u></b>	
<i>THAT the Agenda of the Beaver Creek Advisory Committee meeting held on (date) be approved.</i>	
3. <b><u>ADOPTION OF MINUTES</u></b>	
a. Beaver Creek Water Advisory Committee Meeting held August 7, 2013	3-5
<i>THAT the minutes of the Beaver Creek Advisory Committee meeting held on August 7, 2013 be adopted.</i>	
4. <b><u>PETITIONS, DELEGATIONS &amp; PRESENTATIONS</u></b>	
5. <b><u>CORRESPONDENCE FOR ACTION/INFORMATION</u></b>	
6. <b><u>REQUEST FOR DECISIONS &amp; BYLAWS</u></b>	
a. <b>REQUEST FOR DECISION</b> Beaver Creek Water Service VIHA 4-3-2-1 Implementation Strategy	6-8
<i>THAT the Beaver Creek Water Advisory Committee supports that the Board of Directors of the Alberni Clayoquot Regional District direct Staff to present the Beaver Creek Water Service Vancouver Island Health Authority 4-3-2-1 Implementation Strategy to the residents of Beaver Creek for input in advance of its adoption and submission to VIHA.</i>	
b. <b>REQUEST FOR DECISION</b> Kitsuksis Reservoir	9-10
<i>THAT the Beaver Creek Water Advisory Committee supports that the Board of Directors of the Alberni-Clayoquot Regional District (ACRD) authorize the continued use of the leaking concrete Kitsuksis Reservoir to alleviate potential boil water advisories until the new Strick Road Pump Station is completed as scheduled in January 2014.</i>	

7. **REPORTS**

8. **NEW BUSINESS**

*(requires 2/3 majority vote)*

9. **IN CAMERA**

*Motion to close the meeting to discuss matters relating to*

*i. Litigation or Potential Litigation affecting the Regional District*

9. **ADJOURN**



# Alberni-Clayoquot Regional District

## MINUTES OF THE BEAVER CREEK WATER ADVISORY COMMITTEE MEETING HELD ON MONDAY, AUGUST 7, 2013

Regional District Board Room, 3008 Fifth Avenue, Port Alberni, BC

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**MEMBERS** John McNabb, Chairperson, Director, Electoral Area "E" (Beaver Creek)

**PRESENT:** Wayne Hasler  
Gord Blakey

**STAFF PRESENT:** Russell Dyson, CAO  
Andy Daniel, Manager of Environment Services

### ALBERNI VALLEY

**DIRECTORS PRESENT:** Cindy Solda, City of Port Alberni-Alberni-Clayoquot Regional District (Chair)  
Rob Cole, City of Port Alberni-Alternate  
Penny Cote, Director, Electoral Area "D"  
Mike Kokura, Director, Electoral Area "B"  
Lucas Banton, Director, Electoral Area "F"

**DELEGATIONS:** Chris Downey, Koer's & Associates Engineering Ltd.  
Dan Hooper, McElhanney Consulting Services Ltd.  
Russ Irish, McElhanney Consulting Services Ltd.

### 1. CALL TO ORDER

The Chairperson called the meeting to order at 12:00 pm

### 2. APPROVAL OF AGENDA

*MOVED: Wayne Hasler*

*SECONDED: Gord Blakely*

*THAT the agenda be approved as circulated with the addition of an in-camera meeting to consider a legal matter.*

**CARRIED**

### 3. ADOPTION OF MINUTES

None

### 4. PETITIONS, DELEGATIONS & PRESENTATIONS

a) Russell Dyson provided an overview of the Alberni-Clayoquot Regional District's consideration of water supply for the Beaver Creek Water Service.

b) Dan Hooper provided an overview of the assessment of the Beaver Creek Water Source Options. The report was discussed including the following issues surrounding water supply options:

- The impact of logging practices on water quality
- The need for filtration for Sproat Lake. Presently records indicate it satisfies conditions for a filtration waiver. Russell will secure the water sampling results from the City of Port Alberni for the committee.
- Costs for Sproat Lake are factored into the regional option.
- Sproat Lake is planned as an alternate supply when Bainbridge Lake exceeds permitted turbidity levels. It is not planned as a year round supply.
- Questions were asked about the state of the City of Port Alberni's infrastructure that would be part of a regional water supply. What will be the cost to replace or upgrade aging infrastructure?
- The stated preference of the Regional Board has been for a regional supply-not bulk water purchase. The City of Port Alberni is open to a regional approach.
- Costs for the Beaver Creek Water System are the responsibility of the local service area, not the rest of the region.
- The regional directors support the Beaver Creek Water System in pursuing the preferred water supply option.

c) Chris Downey provided an update regarding the three planned capital improvements for the water system. Strick Road is in process, the tenders for the pump station have been received and the tender for the Beaver Creek water main replacement will be advertised next week. The cost of the pump station is \$680,257.76

*THAT* the Beaver Creek Advisory Committee receives the delegations reports a-c

*MOVED: Wayne Hasler*

*SECONDED: Gord Blakely*

**CARRIED**

The consultants left the meeting

*THAT* the Beaver Creek Advisory Committee moves to in-camera to receive an update regarding a legal matter.

*MOVED: Wayne Hasler*

*SECONDED: Gord Blakely*

**CARRIED**

The meeting was closed to the public at 1:15 pm and returned to an open meeting at 1:25 pm.

5. **CORRESPONDENCE FOR ACTION/INFORMATION**

None

6. **REQUEST FOR DECISIONS & BYLAWS**

None

7. **REPORTS**

None

8. **NEW BUSINESS**

None

9. **ONGOING BUSINESS**

None

10. **ADJOURN**

*MOVED: Gord Blakey*

*SECONDED: Wayne Hasler*

*THAT this meeting be adjourned at 1:25pm.*

**CARRIED**

Certified Correct:

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John McNabb,  
Chairperson

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Russell Dyson,  
CAO



## REQUEST FOR DECISION

**To:** Board of Directors

**From:** Andy Daniel, Manager of Environmental Services

**Meeting Date:** October 9, 2013

**Subject:** Beaver Creek Water Service VIHA 4-3-2-1 Implementation Strategy

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### Recommendation:

*That the Board of Directors of the Alberni Clayoquot Regional District direct Staff to present the Beaver Creek Water Service Vancouver Island Health Authority 4-3-2-1 Implementation Strategy to the residents of Beaver Creek for input in advance of its adoption and submission to VIHA.*

### Desired Outcome:

To adopt and submit an Implementation Strategy for the Beaver Creek Water system (BCWS) to be approved by the Vancouver Island Health Authority (VIHA) Drinking Water Officer for progression towards compliance with the Drinking Water Treatment Objectives 4-3-2-1 (Microbiological) for Surface Water Supplies in British Columbia.

### Summary:

This report is staff's recommendation and is based on plans and studies commissioned by the Beaver Creek Improvement District (BCID) and the Alberni-Clayoquot Regional District (ACRD) with the objective of meeting VIHA's requirements. The reports conclusively determine that the creation of a regional water system is the most cost effective and timely method to achieve compliance and the Board of Directors have stated this as their preferred strategy.

Since conversion in June 2012 the ACRD has implemented the following towards VIHA's objectives:

- Created a process and secured an interim agreement with the CPA to use their water supply to temporarily alleviate boil water advisories during periods of high turbidity. This worked well over the last winter as there were no boil water advisories.
- Upgraded the Strick Road water main infrastructure to provide a permanent connection to the City water supply.
- Commenced construction of the pump station at Strick Road to connect to the CPA water system which will be completed in early 2014.
- Construction of the new Kitsuksis reservoir which has significantly increased reservoir capacity.

The following is the ACRD's proposed Implementation Strategy :

1. To secure the CPA water source for the BCWS with the completion of the Strick Road pump station. The ACRD is in the process of securing an interim agreement and continues to pursue regional water supply options for the Alberni Valley.

The CPA is currently designing a UV disinfection system which includes provisions to add future filtration if required for the CPA water system, this work is expected to commence in 2014.

2. The ACRD will investigate securing a water supply from Sproat Lake including the required licenses and agreements for treatment and pumping infrastructure. Subject to acquiring a filtration waiver from VIHA. If the Sproat Lake source is unattainable, a filtration system will be added to the CPA system. The agreement is to be completed by 2018, with the design starting the same year.

### **Background:**

Prior to conversion, VIHA had placed BCID on notice to develop a plan to meet the 4-3-2-1 requirements and in May 2010 the Trustees provided VIHA with a Proposal to Comply by Connection to the City of Port Alberni. This plan was supported informally by CPA engineering staff as part of a regional water system.

The ACRD has completed various reports and studies in consideration of a regional water supply for the Alberni Valley. This would enable participating jurisdictions to collaborate on 4-3-2-1 compliance. Participants would benefit from efficiencies and a focused approach to grant applications. A regional approach has been determined to be the best approach for the Beaver Creek water system and has been pursued by the Board of Directors in the interests of all potential participants. The City has agreed to pursue a regional approach on the Sproat Lake component of water supply, but prefers to provide water from its existing infrastructure by bulk water sale. An interim agreement provides for the use of City water with a portion of the payments being allocated to a buy in for city infrastructure if regional water is realized.

It is recommended that the ACRD maintain the Stamp River water license during the interim, to maintain options if a regional water supply is not realized.

### **Time Requirements – Staff & Elected Officials:**

The Alberni Valley committee proposes that a meeting take place among water purveyors of the Alberni Valley. This meeting along with the consultation with BC residents, continued negotiations with the city and communications with the relevant regulatory agencies of the province will continue take substantial staff time. A staff report will be provided in the next three weeks outlining in more detail the tasks required in pursuing a regional water supply option.

**Financial:**

As outlined in past reports, Beaver Creek water users will face a substantial rise in costs to meet VIHA's requirements and upgrade their aging distribution infrastructure. To alleviate this, the ACRD Board has allocated \$1.55 million in Gas Tax funding to this system since conversion. Also, by creating a shared regional water supply grants are more likely obtained than for smaller, stand-alone systems.

Staff will be preparing options for new tolls and taxes for Beaver Creek in order to meet the financial commitments of future capital works.

**Policy or Legislation:**

The VIHA 4-3-2-1 standards is a requirement for surface water supplies. A realistic plan must be put in place. The ACRD has been exploring regional water supply options in the interests of all potential partners. This provides for greater efficiencies and participation of all users in its governance, as opposed to relying on contract law and its pitfalls for the supply of an essential service.

**Options Considered:**

The 2013 McElhanney assessment of Beaver Creek Water Source Options, (based on a review of all relevant reports) ranks a regional partnership as not only the best economic alternative but as the best environmental and social alternative as well. While cost uncertainties do exist, including Catalyst negotiations and future funding requirements to maintain and upgrade shared CPA infrastructure, they are relatively minor uncertainties in relation to the other options.



Submitted by: \_\_\_\_\_  
Andy Daniel, Manager of Environmental Services



Approved by: \_\_\_\_\_  
Russell Dyson, Chief Administrative Officer



## REQUEST FOR DECISION

**To:** Board of Directors

**From:** Andy Daniel, Manager of Environmental Services

**Meeting Date:** October 9, 2012

**Subject:** Kitsuksis Reservoir

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### Recommendation:

***That the Board of Directors of the Alberni-Clayoquot Regional District (ACRD) authorize the continued use of the leaking concrete Kitsuksis Reservoir to alleviate potential boil water advisories until the new Strick Road Pump Station is completed as scheduled in January 2014.***

### Background

The Stamp River source for the Beaver Creek water system is prone to high turbidity levels during heavy winter rains which can create the need for boil water advisories. These were successfully eliminated last winter by using a VIHA approved fire truck connected to the City of Port Alberni (CPA) water system.

A new steel reservoir was constructed and commissioned this year to replace the old concrete reservoir which was reported to be leaking. Once the new reservoir was on line the old was isolated and a leakage test was conducted which estimates the loss to be 28,000 gallons (127.3 m<sup>3</sup>) per day.

### Summary

The old and new reservoirs are connected and designed to work in tandem and the plan was to switch to the new one as soon as it was commissioned and investigate a cost effective repair or elimination of the old. The new reservoir was designed with a capacity capable of meeting the systems needs (with a satisfactory water supply).

A structural engineer's review of the leaking reservoir estimates that it would take two to three months to acquire and apply specialty materials needed for the repair. With unseasonably heavy rains in September causing high turbidity levels and a dependence on the reservoir storage volumes it is not possible to repair the reservoir at this time. With both reservoirs on-line it provides a water supply for approximately two days average use. The ACRD has renewed VIHA approval to use the fire truck; however this method is labor intensive and can create distribution system challenges. Keeping the old reservoir on line is preferable. Once the new pump station is commissioned in the early New Year there will be no need for a secondary reservoir or fire truck. At that time the old reservoir could be taken off-line and assessed for repair.

**Financial**

The Strick Road Pump Station is scheduled to be completed in late January and based on the leakage test the estimated cost for continuing to use the old reservoir is \$31.80 per day or approximately \$5,000.



Submitted by: \_\_\_\_\_  
Andy Daniel, Manager of Environmental Services



Approved by: \_\_\_\_\_  
Russell Dyson, Chief Administrative Officer