



## TOWN OF SIDNEY

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### Report to Council

**TO:** Mayor and Council  
**FROM:** Jenn Clary, Director of Engineering  
**DATE:** November 7, 2019 **FILE NO.:** 5240-20 & 1220-20  
**SUBJECT:** Reay Creek Dam Design RFP Award

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#### **PURPOSE:**

To recommend award of the Reay Creek Dam Design contract.

#### **BACKGROUND:**

The intent of this project is to engage a qualified engineering consulting team with experience in dam safety and design to complete the following design elements for Reay Creek Dam:

- perform a dam break analysis;
- determine the failure consequence classification;
- complete detailed design for dam improvements;
- develop construction tender documents; and
- perform construction management for the Reay Creek Dam Renovation.

This work will be done to the standards identified in BC Dam Safety Regulations and Canadian Dam Safety Guidelines. The design will consider a new fish ladder and a new spillway in a location that will better align with the flow of the creek, and will incorporate dam renovations to satisfy dam regulations.

A Class B cost estimate will be provided for the dam construction.

Staff issued a Request for Proposals (RFP) for this work by a qualified engineering consultant, and the RFP closed on October 30, 2019.

#### **DISCUSSION:**

Three proposals were received for the Reay Creek Dam Design RFP. Engineering staff formed a review panel which independently reviewed the proposals, then met to discuss the proposals.

After detailed review and discussion, the review panel compiled their evaluation scores which supported the Kerr Wood Leidal proposal. The evaluation scores considered several technical criteria which made up 70% of the score, and financial criteria which made up the remaining 30% of the score.

The evaluation resulted in the following scores and ranks for each submission:

Rank	Consultant	Score (out of 100)
1	Kerr Wood Leidal	80.01
2	McElhanney	79.95
3	WSP	71.73

The scores between Kerr Wood Leidal and McElhanney are very close, however, in the event of a tie, staff would defer to the total cost of the proposal. Kerr Wood Leidal had a lower upset cost than McElhanney, and staff are therefore comfortable moving forward with the award.

### **FINANCIAL IMPLICATIONS:**

Kerr Wood Leidal's proposed fee is \$174,500 plus GST. This work will be awarded in phases on a time and materials basis.

The recommended proposal can be accommodated within the approved budget for Reay Creek Dam of \$600,000.

The remaining approved budget, however, will likely be insufficient to complete the dam construction. Using the general rule of thumb that detailed design costs are approximately 8% of construction costs, the dam is likely to cost approximately \$720,000 construct. The budget for the dam construction will therefore likely need to increase by approximately \$300,000. The Class B estimate will refine this pricing, however, it will not be complete until April 2020. Staff will therefore bring this budget increase forward during 2020 budget deliberations.

It should be noted that the above construction cost estimate is based on the work being done while Transport Canada has the pond dewatered, which is deemed to be unlikely based on conversations with Transport Canada. Having said that, staff will continue to work with Kerr Wood Leidal and Transport Canada to look at the ability of the work occurring concurrently. The cost of localized dewatering for the dam construction may further inflate the cost of dam construction.

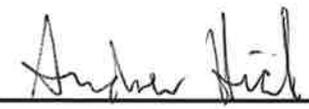
Staff anticipate receiving grant funding for the construction of a new fish ladder. Staff previously received an estimated cost of \$60,000 for a combined spillway and fish ladder.

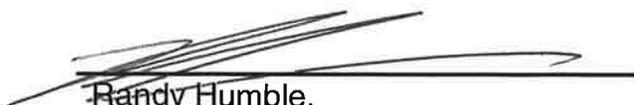
### **RECOMMENDATION:**

**That the consulting contract for the Reay Creek Dam Design be awarded to Kerr Wood Leidal.**

Respectfully submitted:

  
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Jenn Clary  
Director of Engineering

  
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Andrew Hicik  
Director of Corporate Services

  
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Randy Humble,  
Chief Administrative Officer