



BOARD REPORT

TO: Chair and Directors

File No: 7130 25 34

SUBJECT: Newsome Creek Feasibility Study – Property Erosion at Caen Road

DESCRIPTION: Report from Derek Sutherland, Team Leader, Protective Services, Operations Management, dated June 17, 2019. Newsome Creek Feasibility Study - Property Erosion at Caen Road in Sorrento, BC.

RECOMMENDATION: THAT: the Newsome Creek Erosion Mitigation Options report prepared by Kerr Wood Leidal Consulting Engineers dated June 7, 2019 be received by the Board for information this 20th day of June, 2019.

SHORT SUMMARY:

At the January 10, 2019 regular Board meeting, the Board authorized the expenditure of \$25,000 from the Shuswap Emergency Program budget to match \$25,000 in funding from Emergency Management BC (EMBC) to undertake a remediation work plan and ravine stabilization assessment on Newsome Creek at Caen Road in Sorrento, BC.

Kerr Wood Leidal Consulting Engineers (KWL) was retained by the CSR D to undertake the project. The subsequent report is now complete.

On June 13, 2019, CSR D Board Chair Martin, Electoral Area C Director Demenok, and the CSR D Chief Administrative Officer met with the Minister of Public Safety and Solicitor General, Mike Farnworth, and Ministry staff to discuss the ongoing concerns and next steps. A verbal update of this meeting will be provided to the Board at the regular meeting on June 20, 2019.

VOTING: Unweighted Corporate LGA Part 14 (Unweighted) Weighted Corporate Stakeholder (Weighted)

BACKGROUND:

Newsome Creek is located in Electoral Area C of the CSR D. Two sub-basins within the watershed merge and form the main channel of Newsome Creek in the Notch Hill area before it crosses below the Trans-Canada Highway in Sorrento, where it flows adjacent to Caen Road and drains into Shuswap Lake. As the creek exits the culvert at the Trans-Canada Highway it travels through a deep gully with side slopes ranging from 75% to over 110%.

During the spring freshet in 2017 and again in 2018, high stream flows occurred in Newsome Creek, which caused extreme erosion of the creek bank along Caen Road. Stream bank undercutting and slope failures in 2018 resulted in the CSR D’s Shuswap Emergency Program receiving funding from EMBC to conduct an assessment of the erosion and effect and provide recommendations. Reports were developed and shared with affected residents and provincial stakeholders. A total of 11 properties were placed on evacuation alert on May 3, 2018. Some homes and other structures such as detached shops and garages along Caen Road remain at an elevated risk of further instability during high stream flow.

With regards to the development of a feasibility study on Newsome Creek, the geotechnical report recommended that a feasibility study should be undertaken to determine how the gully below the Trans-Canada Highway could be stabilized.

At the January 10, 2019 regular Board meeting, the Board authorized the expenditure of \$25,000 from the Shuswap Emergency Program budget to match \$25,000 in funding from Emergency Management BC (EMBC) to undertake a remediation work plan and ravine stabilization assessment on Newsome Creek at Caen Road in Sorrento, BC.

Kerr Wood Leidal Consulting Engineers (KWL) was retained by the CSRD to undertake the project. The subsequent report is now complete and identifies a total of nine mitigation options and associated costs for consideration ranging from \$4,800,000 to \$6,200,000.

KWL indicated in their reporting that while all of the options presented would limit further destabilization of the ravine, none of the options would fully stabilize the upper ravine slopes.

This information was shared by the CSRD in a meeting with the Minister of Public Safety and Solicitor General in a face to face meeting on June 13, 2019. A verbal update of this meeting will be communicated at the Board meeting.

POLICY:

CSRD Policy No. W-5 Flooding outlines the CSRD's role with respect to flooding issues in unincorporated areas of the Regional District.

FINANCIAL:

Funding for the study was utilized on a one time basis from revenues generated from the CSRD's structural protection unit deployments within BC during the 2018 wildfire season.

COMMUNICATIONS:

The report will be posted on the CSRD website and distributed to affected property owners and stakeholders.

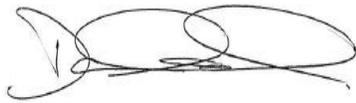
BOARD'S OPTIONS:

1. *Endorse the Recommendation.*
2. *Deny the Recommendation*
3. *Defer.*
4. *Any other action deemed appropriate by the Board.*

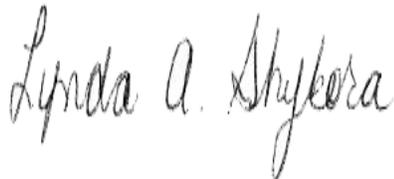
Report Approval Details

Document Title:	2019_06_20_OM_Board_Newsome_Creek_Feasibility_Study_.docx
Attachments:	- 20190607_NewsomeCreekErosionMitigationOptions.pdf - 20190607_CvrLtr-NewsomeCk.pdf
Final Approval Date:	Jun 18, 2019

This report and all of its attachments were approved and signed as outlined below:



Darcy Mooney - Jun 18, 2019 - 9:01 AM



Lynda Shykora - Jun 18, 2019 - 10:39 AM



Charles Hamilton - Jun 18, 2019 - 11:17 AM