



File: A3-6185

September 11, 2007

633154 BC Ltd.
9050 Ford Road
Rosedale BC V0X 1X0

Attention: Harley Haugen

Dear Mr. Haugen:

Re: Stream Work Notification – Shuswap Lake - Bank Protection

Approval for the above has been granted, and the approval document verifying this is attached.

This Approval or copy of it should be kept on the work site so that it may be shown to a Ministry official upon request.

If you have any questions or concerns regarding this Approval, please contact the Regional Water Management Office. You should contact your local government (local or municipal) to determine if there are any additional requirements.

Yours truly,

Duane Wells, P.Ag.
Assistant Regional Water Manager
Water Stewardship Division
Ministry of Environment

pc: Fisheries & Oceans Canada, Salmon Arm, Attn: Fred Lockwood
Conservation Officer Service, Kamloops, Attn: Rick Hildebrand
Front Counter BC – Kamloops
D.S. Cunliffe Consulting Services, P.O. Box 96, Celista BC V0E 1L0
Attn: Dave Cunliffe, P.Eng.



**BRITISH
COLUMBIA**

The Best Place on Earth

APPROVAL

Changes in and about a stream

WATER ACT - SECTION 9 (1)

633154 BC Ltd., 9050 Ford Road, Rosedale BC V0X 1X0 is hereby authorized to make changes in and about a stream as follows:

- A. The stream is Shuswap Lake.
- B. The changes to be made in and about the stream are construction of a 215 m length of riprap bank protection within Lot 1, Section 13, Township 23, Range 10, West of the Sixth Meridian, Kamloops Division Yale District, Plan 8557 and Lot A, Section 13, Township 23, Range 10, West of the Sixth Meridian, Kamloops Division Yale District, Plan 6799 as submitted with application.
- C. All works shall comply to design plans submitted by D.S. Cunliffe Consulting Services for the application.
- D. The works authorized shall be completed on or before March 31, 2008.
- E. All works shall be conducted in the "dry".
- F. No silt, or other deleterious substances, shall be allowed to enter the water. This must be ensured through the use of appropriate cofferdam materials.
- G. All work shall be conducted from the top of the bank. No equipment shall be operated in the channel.
- H. The proponent shall follow the Lakeshore Stabilization Best Management Practices (available through the Department of Fisheries and Oceans office in Salmon Arm) in the design and construction of the riprap.

- I. The holder of this approval shall take reasonable care to avoid damaging any land, works, trees or other property, and shall make full compensation to the owners for any damage or loss resulting from the exercise of the rights granted with this approval.
- J. This approval does not authorize entry onto privately held land.
- K. ~~Vegetation along Shuswap Lake shall be disturbed as little as possible.~~
- L. All excavated material and debris shall be placed in a stable area above the high water mark and protected from erosion by planting grass and/or vegetation.
- M. Fuelling and servicing of vehicles and equipment must occur away from all streams, lakes and water bodies and any spills must be properly cleaned up and reported as required by the Spill Reporting Regulation (B.C. Reg. 263/90).
- N. Any machinery operated on the site shall be in good repair and be free of hydraulic leaks and excess surface oil and grease.
- O. Rock used as riprap shall be clean, durable, angular in shape and suitably graded and sized to resist movement by wave action.
- P. Where rock riprap is used to protect against erosion, the streambank must be pulled back to a 2:1 slope (2 horizontal and 1 vertical) before the bank is protected. The riprap shall be placed at a slope no steeper than 2:1, and shall have an entrenched toe/apron of rock placed on the streambed at the toe of the slope.
- Q. The upstream end of the riprap must be keyed (trenched) back into the bank so that the bank protection is not outflanked by erosion.
- R. Upon commencement of the project, the works shall be pursued to completion as quickly as possible.
- S. Fisheries and Oceans Canada office in Salmon Arm (804-7006) shall be notified three business days prior to commencement of the work.

T. Prior to carrying out any maintenance of the works under this approval, the holder is to
attain the consent of the Regional Water Manager, Thompson Cariboo Region.



Duane A. Wells, P.Ag.
Assistant Regional Water Manager
Thompson Cariboo Region

April 1, 2008

633154 BC Ltd.
9050 Ford Road
Rosedale BC V0X 1X0

Attention: Harley Haugen

Dear Mr. Haugen:

Re: Approval Application for Changes in and about Shuswap Lake

Approval for the above has been amended by the following Engineer's Order.

The original copy of the Approval or a copy of it and this Engineer's Order should be kept at the work site so that it may be shown to a Ministry official upon request.

If you have any questions or concerns regarding this Approval, please contact the Regional Water Management Office.

Yours truly,



Duane Wells, P.Ag.
Assistant Regional Water Manager
Water Stewardship Division
Ministry of Environment

Attachment

pc: Fisheries & Oceans Canada, Salmon Arm, Attn: Fred Lockwood
Conservation Officer Service, Kamloops, Attn: Steve Wasylik
Front Counter BC – Kamloops
D.S Cunliffe Consulting Services, PO Box 96, Celista BC V0E 1L0
Attn: Dave Cunliffe, P.Eng.