



**SNOWY RIVER RESOURCES LTD.**

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Habitat Protection For Resource Development □ Environmental Permitting & Monitoring □ Fish & Wildlife Management

Peter McDonald  
Weyerhaeuser Company Ltd.  
Princeton Division  
Old Hedley Rd., Princeton, BC  
VOX 1W0

November 3, 2003

Re: Whipsaw Creek streambank restoration works.

Dear Peter,

The following brief is a summary of stream bank restoration works completed at four sites along the Whipsaw Creek FSR (between km 13.1 and 14). The in-stream works were completed between October 19 and 25<sup>th</sup> in accordance to the prescription.

As required by FIA and the Ministry of Water, Land and Air Protection, approval was obtained to complete the works outside of the in-stream operating window. The District Manager was given notification about the project.

The majority of works were undertaken outside of wetted perimeter. The exception being site 2 where the channel was reconfigured to minimize stream bank erosion. In all other cases, sedimentation was kept to a minimum by excavation and placement of rock armor outside of the wetted perimeter.

The estimated rock to be used for the project was 845m<sup>3</sup> and the actual amount used was 905m<sup>3</sup> (a difference of 60m<sup>3</sup>).

Further improvement of the worksite would include re-seeding the banks with native grass to establish a root system to stabilize the soil. This would eventually encourage woody shrubs to establish to further reinforce the banks.

If you require further clarification regarding this assessment, please do not hesitate to contact the undersigned.

Sincerely,

*Doug Wahl*

Doug Wahl, RPBio, CPESC  
Habitat Biologist



**SITE 1: 13.1 KM WHIPSAW FSR**

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Photo #1 shows an upstream view of the rock installation after it has been installed and graded to the road surface level.



Photo #2 shows a view of the built up berm to prevent further erosion and washout over the bank.

**Site 2: 13.2 km Whipsaw FSR**



Photo #3 shows the rock bank installation of the critical corner of site #2. This bank was eroding rapidly just prior to installation due to significant rainfall throughout the previous week.



Photo #4 is an upstream view of bank installation showing the first level of rock being installed. The critical bank in the foreground has been built up slightly above road level and was covered with earth to allow for plants to establish growth.

**SITE 3: KM 13.3 WHIPSAW FSR**



Photo #5 is an upstream view showing excavation in progress. It is a good visual indication of how far the bank was reinforced beneath the driven road surface.



Photo #6 is a cross view showing the height of the first layer of boulder/rock installed.

**SITE 4: KM 14 WHIPSAW FSR**



Photo #7 is an upstream view with the first layer of rock installed.



Photo #8 shows the final steps of bank installation. The area was then covered with soil to aid in plant growth.

Woody shrubs were kept along the streambank to allow their root systems to continue functioning as fish habitat.