

B.C. MINISTRY OF TRANSPORTATION

SA20 – LOCAL AREA SPECIFICATION #3

DEBRIS CATCHMENT MAINTENANCE

1. OBJECTIVE

To maintain required capacity in Debris catchment areas to accommodate seasonal bedloading and Debris Flows.

2. GENERAL PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

Not applicable to this Local Area Specification.

2.2 Quantified Maintenance Services

All services for this Local Area Specification are Quantified. There are two catchment areas that fall under this Local Area Specification:

- 1) Hargreaves Creek, off Highway 16, within Mount Robson Park
- 2) Goslin Creek, off Highway 16, near Tete Jaune Cache.

3. DETAILED PERFORMANCE SPECIFICATIONS

3.1 Routine Maintenance Services

Not applicable to this Local Area Specification.

3.2 Quantified Maintenance Services

For the Hargreaves Creek site, the Contractor must:

- a) monitor accumulation of materials under Hargreaves Bridge and 200 meters upstream and 200 meters downstream of the Bridge;
- b) notify the Ministry when clearance under the structure is less than 2 meters, or if the upstream or downstream accumulation of material significantly reduce capacity (i.e., less than 2 meters of clear depth from top of berm);

- c) upon Ministry approval, remove the accumulated material to restore 3 meters of capacity at the structure and for 200 meters upstream and downstream of the Bridge (or appropriate clearance as indicated by the Ministry);
- d) retain or re-establish channel berms, stream edge Rip-rap and in-channel-placed Rip-rap;
- e) place excavated material as to not interfere with stream flow or future excavations;

For the Goslin Creek site, the Contractor must:

- f) monitor accumulation of materials within the catchment basin directly upstream of the rock and Trash Rack;
- g) notify the Ministry when capacity at the rock and Trash Rack is less than 1 meter, as measured from the top of the structure, or if the catchment basin deposits significantly reduce capacity (i.e., less than 2 meters of clear depth from top of berm);
- h) upon Ministry approval, remove the accumulated material to restore 3 meters of capacity in the catchment basin and to restore capacity at the rock and Trash Rack;
- i) retain or re-establish channel berms, stream edge Rip-rap and in channel placed Rip-rap;
- j) place excavated material as to not interfere with stream flow or future excavations.

3.2.1 Performance Time Frames

The Contractor must:

- a) monitor the accumulation of material monthly, unless conditions exist (e.g. spring freshet) which would indicate the need to monitor on a more frequent basis;
- b) immediately notify the Ministry of any significant accumulation of materials, or when capacity triggers in Section 3.2 above have been reached;
- c) provide an estimate for the completion of the works;

- d) upon Ministry approval, schedule excavation of the accumulated materials as to ensure no damage to the structure or overflow of the catchment basin occurs.

3.2.2 Miscellaneous

- a) the payment for work under this Local Area Specification will be through provisional sum item within the Quantified Maintenance Services and will be paid using Schedule 19, Direct Plus Rates Schedule;
- b) the cost of work under this provisional sum item will not contribute to the 2% cap on emergency works as outlined in Section H3 of the Introduction to the Maintenance Specifications;
- c) any costs over the provisional sum item within Quantified Maintenance Services will be re-allocated from other Quantified Maintenance Services, subject to the Ministry's approval;
- d) in the event of a significant accumulation of material, the Ministry may undertake repairs to the sites, under hired equipment or by contract, with no obligation to the Contractor;
- e) in the event of a significant accumulation of material, the Ministry may require the work be undertaken, under the direct supervision of a Ministry Geotechnical Engineer.

3.3 Materials

Not applicable to this Local Area Specification.

4. WARRANTY

Not applicable to this Local Area Specification.