BRITISH COLUMBIA

September 28, 2023

Job Number: [redacted]
vFCBC Tracking Number: [redacted]

Philip Eastman
[redacted]

Dear [redacted],

Change Approval - Changes In and About a Stream (File [redacted])

Philip Hiroshi Eastman, [redacted] is hereby authorized to make changes in and about a stream as follows:

1) The name of the stream is Cowichan River.

2) The changes to be made in and about the stream are:
   - the removal of the old, failing retaining wall;
   - excavation of trench for foundation of new wall and the minimal amount of riparian vegetation clearing required for the trench; and
   - installation of gravel foundation and Verti-block retaining wall.

3) The location of the works are at the following coordinates, as provided by the applicant: 48.8257440, -124.0505670.

4) All works shall be completed in accordance with:
   - the application submitted March 23rd, 2023;
   - the Environmental Assessment for New Retaining Wall 62 Gordon Road, Lake Cowichan, Cowichan River prepared by Aquaparian Environmental Consulting and dated February 15th, 2023; and
   - the Engineer drawings prepared by Ryzuk Geotechnical and dated February 8th, 2023.

5) All works shall take place between:
   - August 1st – September 15th, 2024, or;
   - August 1st – September 15th, 2025.

Ministry of Forests
Mailing Address:
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Nanaimo BC V9T 6E9
Phone: 250 751-7220
Fax: 250 751-7192
Web: https://www2.gov.bc.ca/gov/content/environment/air-land-water/water

6) A Qualified Environmental Professional/Monitor with the authority to halt work shall be on site during all phases of construction.

7) Fuelling and servicing of vehicles and equipment must occur a minimum of 30 metres away from all streams, lakes and waterbodies. Keep a spill containment kit on site and train onsite staff in its use. Immediately report any spill of a substance that is toxic, polluting, or deleterious to aquatic life of reportable quantities to the Dangerous Goods Incident Report 24-hour phone line at 1 800 663-3456.

8) Riparian areas which are disturbed by the works shall be restored to their original condition and protected from erosion.

9) All material utilized during construction shall be contoured and placed in a stable area such that it is not able to mobilize and managed to avoid entry into any stream or watercourse.

10) The works authorized shall be completed on or before September 15th, 2025.

11) Measures must be taken to ensure that no harmful material (e.g. fuel and other hydrocarbons, soil, road fill, or sediment) which could adversely impact water quality, fish and other aquatic life, and/or fish habitat, be allowed to enter the wetted perimeter as a result of the project activities.

12) All rock used in the works shall be clean and free of sediment producing material, durable, non-acid generating and suitably graded.

13) The activities authorized under this approval may be halted at any time by an Order in writing from a Water Manger under the *Water Sustainability Act* to ensure compliance with the terms and conditions authorized herein.

14) All work shall be carried out in accordance with the Provincial "*Requirements and Best Management Practices for Making Changes In and About A Stream in British Columbia (2022)*" https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/working-around-water/wsa-cias-requirements-bmps.pdf?msclkid=295e67c4c1ae11ecadd4ff4606dd7f6e and "*A Users' Guide for Changes In and About A Stream in British Columbia (2022)*" https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/working-around-water/wsa-cias-users_guide.pdf?msclkid=92f2e4dbc1b011ec95c005b94d9b874d.

15) All changes in an about the stream shall be completed to the satisfaction of a Water Manager, as defined by the *Water Sustainability Act*.

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16) Where there is a potential for silt runoff in the proximity of existing watercourses, control devices will be installed prior to construction activities commencing;

   a) Filter fabric dams, rock check dams, and silt fencing will be used as needed on a site-specific basis to control erosion. Filtration should be accomplished using filter fabric keyed into substrates and banks, and elevated using stakes. Silt fencing is not an acceptable mitigation technique to control erosion in flowing ditches; however, it is useful for containing slumping areas and for use as baffles to slow water velocities.

   b) Excavation will be stopped during intense rainfall events or whenever surface erosion occurs affecting the watercourse.

   c) Watercourses are not to be traversed by machinery at any time.

   d) Soil stockpiles will be placed a minimum of 3 metres from any watercourse and in a location where erosion back into the watercourse cannot occur and will not impede any drainage.

   e) Soil stockpiles with the potential to erode into watercourses are to be covered with poly sheeting or mulch. Other techniques, such as terracing or surface roughening can greatly reduce surface erosion on steeper slopes.

   f) Permanent exposed soil areas and erosion-prone slopes that may potentially erode into the watercourse are to be seeded immediately, or covered with geotextile.

   g) Clearing will take place immediately prior to excavation and earthworks to minimize the length of time that soils are exposed. Vegetation in adjoining areas will not be disturbed.

   h) Site re-vegetation measures may be required to stabilize soils and stream banks and reduce erosion. The measures, including planting native vegetation, are to be implemented as directed by the biologist as construction is completed.

17) Upon completion of works photographs of the completed works and a short project report must be provided to Olivia Kampman, Water Officer.

Sincerely,

[redacted]

Resource Manager

Cc:
Enclosure(s)

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