

October 16, 2020

Trans Mountain Pipeline ULC
2700, 300 - 5th Avenue SW
Calgary, AB T2P 5J2

Attention: Trans Mountain Pipeline ULC

RE: Determination of Application Number 100111193

Permit Holder: Trans Mountain Pipeline ULC
Date of Issuance: October 16, 2020
Effective Date: October 16, 2020
Application Submission Date: July 25, 2020
Application Determination Number: 100111193

ACTIVITIES APPROVED

Changes In and About a Stream: 0006223
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GENERAL APPROVALS AND CONDITIONS

Water Sustainability Act

1. The Commission, pursuant to section 11 of the *Water Sustainability Act*, approves the Changes In and About a Stream, as detailed in the table above, within the activity area for construction and maintenance activities, unless otherwise restricted by this approval:
 - a. a) Instream works must be carried out in accordance with the methods and any mitigations, as specified in the application.
2. The approvals granted under this permit are limited to the area identified in the spatial data submitted to the Commission in the permit application as identified and dated above; herein referred to as the 'activity area'.

CONDITIONS

Notification

3. A notice of construction start must be submitted, as per the relevant Commission process at the time of submission, at least 48 hours prior to the commencement of activities under this permit.
4. Within 60 days of the completion of construction activities under this permit, the permit holder must submit to the Commission a post-construction plan as a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shapefile and plan must be submitted via eSubmission.

5. The permit holder must notify any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur at least 48 hours prior to project commencement.

Clearing

6. The permit holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the activity area that are considered to be a safety hazard under applicable regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the activity area without causing damage to standing timber may be harvested.

Water Course Crossings and Works

7. Stream, lake and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.
8. In-stream activities within a fish bearing stream, lake or wetland must occur:
 - a. during the applicable reduced risk work windows as specified in the Lower Mainland – Reduced Risk Work Windows;
 - b. in accordance with alternative timing and associated mitigation recommended by a Qualified Professional and accepted by the Commission; or
 - c. in accordance with an authorization or letter of advice from Fisheries and Oceans Canada that is provided to the Commission.
9. At any time, the Commission may suspend instream works approved under this permit. Suspensions on instream works will remain in place until such time as the Commission notifies permit holders that works may resume. Reasons for suspension of works may include, but are not limited to, drought conditions and increased environmental or public safety risks.
10. Equipment used for activities under this Permit must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity.
11. The permit holder must ensure that bridges and culverts on fish streams are constructed and maintained in a manner that does not prevent or impede the movement of fish.
12. The permit holder must ensure that the activities approved under this approval do not result in any deleterious materials being deposited into a stream, wetland or lake.
13. Stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
 - a. To facilitate construction of a crossing, a machine is permitted to ford the stream a maximum of one time in each direction at the crossing location.
 - b. Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings;
 - c. The permit holder must ensure that permanent bridges are designed and fabricated in compliance with:
 - i. the Canadian Standards Association Canadian Bridge Design Code, CAN/CSA-S6; and
 - ii. soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
 - d. Except with leave of the Commission, the permit holder must ensure that
 - i. culverts are designed and fabricated in compliance with the applicable:
 - a. Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
 - b. Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium; or

- ii. any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
- e. Except with leave of the Commission, the permit holder must ensure that bridges or culverts meet the criteria set out in i., ii. or iii. below:
 - i. the bridge or culvert is designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in Column 2 of the table below for the period the permit holder anticipates the structure will remain on site, as set out in Column 1 of the table below:

Anticipated period crossing structure will remain on site	Peak flow period
Bridge or culvert, 3 years or less	10 years
Bridge other than a bridge within a community watershed, more than 3 years but less than 15	50 years
Bridge within a community watershed, more than 3 years	100 years
Bridge, 15 years or more	100 years
Culvert, more than 3 years	100 years

- ii. the bridge, or any component of the bridge:
 - a. is designed to pass expected flows during the period the bridge is anticipated to remain on the site;
 - b. is constructed, installed and used only in a period of low flow; and
 - c. is removed before any period of high flow begins.
- iii. the culvert;
 - a. is a temporary installation, and the permit holder does not expect to subsequently install a replacement culvert at that location;
 - b. is not installed in a stream, when the stream contains fish;
 - c. is sufficient to pass flows that occur during the period the culvert remains on the site;
 - d. is installed during a period of low flow; and
 - e. is removed before any period of high flow begins.
- f. Bridge or culvert abutments, footings and associated scour protection must be located outside the natural stream channel and must not constrict the channel width.

ADVISORY GUIDANCE

1. Sketch Plan - Attachment1_20-705G_02_R0_IFT_2020-07-09_CorbettRd_Reduced.pdf is for the permit holder's internal reference only and was not reviewed as a decision tool for this permit, nor does it form an integral part of this permit.
2. Instructions for submitting notice of construction start can be found in the Oil and Gas Activity Operations Manual on the Commission's website.
3. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the Oil and Gas Activities Act.

All pages included in this permit and any attached documents form an integral part of this permit.



Lori Phillips
Authorized Signatory
Commission Delegated Decision Maker

Copied to:

First Nations – Peters Band, Union Bar Band, Ashcroft Indian Band, Boston Bar First Nation, Cook's Ferry Indian Band (STC), Coldwater Indian Band (STC), Kanaka Bar Indian Band, Lower Nicola Indian Band, Nooaitch Indian Band (STC), Nicomen Indian Band, Nlaka'pamux Nation Tribal Council, Popkum First Nation, People Of The River Referrals Office (PRRO), Siska Indian Band (STC), Shackan Indian Band (STC), Seabird Island First Nation, Shxw'owhame! First Nation