



August 22, 2018

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

Attention: Trans Mountain Pipeline ULC

RE: Amendment to Application Determination Number 100101805

Permit Holder: Trans Mountain Pipeline ULC
Amendment Date of Issuance: August 22, 2018
Amendment Effective Date: August 22, 2018
Application Submission Date: June 11, 2018
Amendment Application Number: 100105411
Approved Disturbance Footprint: 0.0 ha

AMENDMENT DETAILS

Changes In and About a Stream: 0003844,	Amendment to add works for additional streams.
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GENERAL AUTHORIZATIONS and CONDITIONS

AUTHORIZATIONS

1. The BC Oil and Gas Commission (the "Commission"), under section 26(1) of the *Water Sustainability Act*, hereby grants an amendment to the above referenced Application Determination Number permit, as detailed in the Amendment Details table, above, subject to the original permit, any subsequent amendments and any additional or revised conditions as set out herein.
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'.

Water Sustainability Act

3. The Commission, pursuant to section 11 of the *Water Sustainability Act*, authorizes the changes in and about a stream, as detailed in the Amendment Details table above within the activity area for construction and maintenance activities, unless otherwise restricted by this authorization. Instream works must be carried out in accordance with the methods and any mitigations, as specified in the application.

CONDITIONS

Notification

4. 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.
5. 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.
6. At least 5 (five) working days prior to the commencement of any changes in or about a stream, the Approval Holder must provide a notice of works to 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.

Clearing

7. 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 according to *Workers Compensation Act* 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

8. Except with leave of the Commission, and subject to relevant access permissions, the Approval Holder must conduct water quality monitoring during in-stream works and the results of that monitoring must be submitted to the Commission upon the Commission's request.
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 Approval 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. Except with leave of the Commission, the Approval Holder must ensure that:
 - a) any culverts used are designed and fabricated in compliance with the applicable:
 - (i) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
 - (ii) Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium, or
 - b) Any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
11. Except with leave of the Commission, the Approval Holder must ensure that culverts are designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in column 2 the table below for the period the Approval Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

Column 1 Anticipated period crossing structure will remain on site	Column 2 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

ADVISORY GUIDANCE

1. Choose an Item 180604 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.

This amendment forms an integral part of your permit(s) and should be attached thereto.

Permit Holder: Trans Mountain Pipeline ULC
Application Determination Number: 100101805

Application Submission Date: June 11, 2018
Date Issued: August 22, 2018



Justin Anderson
Authorized Signatory
Commission Delegated Decision Maker

Copied to:

First Nations – Cowichan Tribes (Hul'qumi'num People), Penelakut Tribe (Hul'qumi'num People), Stz'uminus First Nation (Hul'qumi'num People), Kwikwetlem First Nation, Musqueam Indian Band, Tsleil-Waututh Nation, Halalt First Nation (Hul'qumi'num People), Lake Cowichan First Nation (Hul'qumi'num People), Lyackson First Nation (Hul'qumi'num People), People Of The River Referrals Office (PRRO), Seabird Island First Nation,

October 16, 2017

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

Attention: Trans Mountain Pipeline ULC

RE: Determination of Application Area Number 100101805

Approval Holder: Trans Mountain Pipeline ULC
Date of Issuance: October 16, 2017
Effective Date: October 16, 2017
Application Submitted Date: April 13, 2017
Application Determination Number: 100101805
Approved Disturbance Footprint: 0 ha

ACTIVITIES APPROVED

Changes In and About a Stream: 0003844
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GENERAL AUTHORIZATIONS and CONDITIONS

AUTHORIZATIONS

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 Activities Approved table above, within the activity area for construction and maintenance activities, unless otherwise restricted by this approval.
 - 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 Approval 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. At least 5 (five) working days prior to the commencement of any changes in or about a stream, the Approval Holder must provide a notice of works to 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.

Clearing

6. The Approval Holder is permitted to fell any trees, under applicable regulations, located on Crown land within 1.5 tree lengths of the activity area that are considered to be a worker safety hazard 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. Except with leave of the Commission, and subject to relevant access permissions, the Approval Holder must conduct water quality monitoring during in-stream works and the results of that monitoring must be submitted to the Commission upon the Commission's request.
8. 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 Approval 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.
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- any culverts used are designed and fabricated in compliance with the applicable:
 - Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
 - Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium, or
 - Any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
10. Except with leave of the Commission, the Approval Holder must ensure that culverts are designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in column 2 the table below for the period the Approval Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

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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

ADVISORY GUIDANCE

1. Construction plans are for the Approval Holder's internal reference only and were not reviewed as decision tools for this approval, nor does they form an integral part of this approval.

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

Approval Holder: Trans Mountain Pipeline ULC
Application Determination number: 100101805

Application Submission Date: April 13, 2017
Date Issued: October 16, 2017



Tarilee Rauscher
Authorized Signatory
Commission Delegated Decision Maker

Copied to:

Land Agent – Stantec Consulting Ltd.
First Nations – Cowichan Tribes, Halalt First Nation, Hwlitsum First Nation, Kwikwetlem First Nation, Lake Cowichan
First Nation, Lyackson First Nation, Musqueam Indian Band, Penelakut Tribe, People Of The River Referrals Office,
Seabird Island First Nation, Squamish Nation, Stz'uminus First Nation, Tsleil-Waututh Nation