

March 4, 2019

Coastal GasLink Pipeline Ltd.
450 - 1st Street SW
Calgary, AB T2P 5H1

Attention: Coastal GasLink Pipeline Ltd.

RE: Application Determination Number 100106728

Permit Holder: Coastal GasLink Pipeline Ltd.
Date of Issuance: March 4, 2019
Effective Date: March 4, 2019
Application Submission Date: December 10, 2018
Application Number: 100106728
Approved Disturbance Footprint: 2.056 ha

ACTIVITIES APPROVED

Road Number No.: 05196	Segment No.: 001
Changes In and About a Stream: 0005063,	

GENERAL PERMISSIONS, AUTHORIZATIONS and CONDITIONS

PERMISSIONS

Oil and Gas Activities Act

1. The BC Oil and Gas Commission, under section 25 (1) of the *Oil and Gas Activities Act*, hereby permits the Permit Holder referenced above to carry out the following activities, indicated in the Approved Activities table above, subject to the conditions contained herein, any applicable exemptions and authorizations:
 - a) To construct, maintain and operate an oil and gas road as detailed in the Activity Details tables below.
2. The permissions and authorizations 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 after referred to as the 'activity area'.

Petroleum and Natural Gas Act

3. Pursuant to section 138(1) of the *Petroleum and Natural Gas Act*, the Permit Holder is permitted to enter, occupy and use any unoccupied Crown land located within the activity area to carry out the oil and gas activities and related activities permitted, or authorized herein.
 - a) The permission to occupy and use Crown land does not entitle the Permit Holder to exclusive possession of the area.
 - b) The total disturbance within the activity area must not exceed the total approved disturbance footprint as referenced above.

AUTHORIZATIONS

Forest Act

- The Commission, pursuant to section 47.4 of the *Forest Act*, hereby authorizes the removal of Crown timber from the activity area under the cutting permits associated with the Master Licence(s) as follows:

Master Licence to Cut No.: M02617

Cutting Permit No.: 4

Timber Mark No.: MTC651

Total New Cut: 0.2

Forest District: (DKM) Coast Mountains Natural Resource District

Region: Interior

- The cutting permits are deemed spent upon the submission of the post-construction plan or upon either the cancellation or expiry of the activities authorized under the permit.

CONDITIONS

Notification

- 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.
- At least 5 (five) working days prior to the commencement of construction, the Permit 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.

General

- The rights granted by this permit in relation to unoccupied Crown land are subject to all subsisting grants to or rights of any person made or acquired under the *Coal Act*, *Forest Act*, *Land Act*, *Mineral Tenure Act*, *Petroleum and Natural Gas Act*, *Range Act*, *Water Sustainability Act* or *Wildlife Act*, or any extension or renewal of the same.
- The Permit Holder must not assign, sublicense or permit any person other than its employees, contractors or representatives, to use or occupy any Crown land within the activity area without the Commission's written consent.
- The Permit Holder must ensure that any Crown land within the activity area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
- The Permit Holder must ensure that any Crown land within the activity area is maintained free of garbage, debris and unused equipment.

Environmental

- Construction activities must not result in rutting, compaction or erosion of soils that cannot be reasonably rehabilitated to similar levels of soil productivity that existed on the activity area prior to the construction activities taking place.
- Any temporary access must be constructed and maintained in a manner that provides for proper surface drainage, prevents pooling on the surface, and maintains slope integrity.
- Except with leave of the Commission, the permit holder must not undertake clearing activities between April 1 and September 15 or within 30 metres of any active marbled murrelet nest.
- Except with leave of the Commission, the permit holder must not undertake clearing or significant maintenance activities within UWR U-6-009 between November 1 and May 1.
- No clearing is authorized within any Wildlife Tree Retention Area.

Clearing

17. 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.
18. The holder of the cutting permit must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.
19. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark.
20. Any waste assessments applied under the Master Licence to Cut are subject to the merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Manual specific to the region associated with the Cutting Permit authorization.
21. Stumpage for Cutting Permit No. 4 will be calculated in accordance with the Interior Appraisal Manual as amended from time to time.

Water Course Crossings and Works

22. Stream, lake and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.
23. 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 Region 6 Skeena - Reduced Risk In-stream Work Windows and Measures ; or
 - 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.
24. At any time, the Commission may suspend instream works authorized 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.
25. 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.
26. Following initial construction, stream crossings are authorized for necessary road modification or maintenance activities on the activity area except for:
 - a) construction or replacement of a bridge or major culvert on a S1, S2, S3 or S5 stream;
 - b) installation of a closed bottom structure in a fish bearing stream;
 - c) excavation or grading of a stream bank or stream bed;
 - d) works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
 - e) Works within a Fisheries Sensitive Watershed established by order under section 28 of the Environmental Protection and Management Regulation.
27. Stream crossings for roads must be constructed, maintained and deactivated according to the following requirements, as applicable:
 - f) Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings.
 - g) Snow fills must consist of clean snow and may only be located on streams that are dry or frozen to the bottom during the period of construction, maintenance and use. Where periodic thaws are anticipated, culverts must be installed to allow meltwater to pass through. Snow fill and any installed culverts must be removed prior to spring snow melt.
 - h) Ice bridges on fish bearing streams may only be constructed where sufficient water depth

and stream flows prevent the bridge structure from coming in contact with the stream bottom.

- i) Water applied to construct an ice bridge on a water body must be sourced in accordance with the *Water Sustainability Act* unless
 - (i) the water body is a stream with a stream channel width of at least 5 metres and is not designated as a sensitive stream under the Fish Protection Act, or has a riparian class of W1, W3, or L1,
 - (ii) the water is sourced from the same water body proximal to the location on which the ice bridge is constructed,
 - (iii) the water body is not within the boundaries of a public park,
 - (iv) pump intakes do not disturb beds of streams or wetlands except as necessary for the safe installation and operation of equipment, and are screened with a maximum mesh size and approach velocity in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline, and
 - (a) where the water body is a stream, the flow of water in the stream at the time and location of pumping exceeds 60 litres per second and the instantaneous pumping rate does not exceed 1% of the water flowing in the water body at the time and location the pumping occurs, or
 - (b) where the water body is a lake or pond, the cumulative volume of water withdrawn does not exceed 10 cm of lake or pond depth, calculated as the product of lake or pond surface area x 10 cm;
- j) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width.

28. Wetland crossings must be constructed, maintained and removed in accordance with the following:

- k) Organic cover within and adjacent to the wetland must be retained;
- l) Minimize erosion or release of sediment within the wetland;
- m) Any padding materials must be placed on the wetland surface only and must not be used for infilling;
- n) Any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and
- o) The wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated.

Archaeology

29. If artifacts, features, materials or things protected under section 13(2) of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under section 12 of the Heritage Conservation Act issued by the Commission in respect of that artifact, feature, material or thing:

- a. immediately cease all work in the vicinity of the artifacts, features, materials or things;
- b. immediately notify the Commission and the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations and Rural Development
- c. refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance with the Heritage Conservation Act and approved by the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations and Rural Development.

ACTIVITY SPECIFIC DETAILS PERMISSIONS, and CONDITIONS

ROAD

Land Area Number: 100009900
Road Number: 05196 **Road Type:** Long-Term - All-Weather

ACTIVITY DETAILS

Seg No.: 001	Zone: 09 From: N 5991618.851 E 540150.18 To: N 5990945.638 E 540627.497
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All permissions for this activity are subject to the following conditions:

Road Conditions

30. The Permit Holder will immediately effect, and keep in force insurance of an amount not less than \$1,000,000 protecting the Province, the Commission and the Permit Holder (without any rights of cross-claim or subrogation) against claims for personal injury, death, property damage, or third party liability claims arising from any accident or occurrence on the activity area.

ADVISORY GUIDANCE

1. Construction Plan, CGW-4703-MCSL-G-MP-1609-RW-112.0-Sketch-Rev2.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, as required by regulation, can be found in the Oil and Gas Activity Operations Manual on the Commission's website.
3. The term "unused equipment" has the same definition as in the Drilling and Production Regulation.

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



Jacqueline Bourke
Authorized Signatory
Commission Delegated Decision Maker

Copied to:

Land Agent – Roy Northern Land Service Ltd.
First Nations – Haisla Nation Council
Ministry of Forests District Office – (DKM) Coast Mountains Natural Resource District