BRITISH COLUMBIA **ENERGY REGULATOR**

May 12, 2023

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

Attention: Coastal GasLink Pipeline Ltd.

RE: Determination of Application Number 100117017

Permit holder: Coastal GasLink Pipeline Ltd.
Date of Issuance: May 12, 2023
Effective Date: May 12, 2023
Application Submission Date: April 27, 2023
Application Determination Number: 100117017
Approved Disturbance Footprint: 0 ha

Activities Approved

Short Term Water Use No.: 0006497	**Point of Diversion No.:** 001
Changes In and About a Stream: 0007918	

General Permissions, Authorizations and Conditions

Authorizations

Water Sustainability Act

1. The BC Energy Regulator, pursuant to section 10 of the *Water Sustainability Act*, hereby authorizes the diversion, storage and use of Crown water from the point(s) of diversion detailed in the Short Term Water Use Details table below.

   The BC Energy Regulator, pursuant to section 24 of the Water Sustainability Act, hereby authorizes the use of Crown land for the purpose of constructing, operating and maintaining a Temporary Access to the authorized POD as shown on the attached map titled Sketch Plan Showing Temporary Access and Proposed Water Source Point of Deversion POD KP 626 + 500 within Unit 64, Block B Group 103 – I – 1 Within Unsurveyed Crown Land Construction Section 8W, dated October 27, 2022

2. The BC Energy Regulator, pursuant to section 11 of the *Water Sustainability Act*, authorizes 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 authorization:

   a. Instream works must be carried out in accordance with the methods and any mitigations, as specified in the application.

Conditions

Notification

4. The Permit Holder must notify the First Nation(s) copied on this permit/authorization at least 5 (five) working days prior to project commencement.

Clearing/Forest Act

5. 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

6. Stream, lake, and wetland crossings must be constructed in accordance with the methods and any mitigations, as specified in the application.

7. Construction or maintenance activities within a fish bearing stream or wetland must occur:

    a. during the applicable reduced risk work windows as specified in the Skeena Region - Reduced Risk Work Windows;

    b. in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the BC Energy Regulator; or

    c. in accordance with an authorization or letter of advice from Fisheries and Oceans Canada that is provided to the BC Energy Regulator;

    If activities are to occur in accordance with b or c above, the documentation must be submitted to the BC Energy Regulator prior to commencement of activities.

8. At any time, the BC Energy Regulator may suspend instream works authorized under this permit. Suspensions on instream works will remain in place until such time as the BC Energy Regulator 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.

9. 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.

WCCW Mechanical

10. Mechanical 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 BC Energy Regulator, 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 B182.8, 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 BC Energy Regulator, 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. 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, the permit holder must ensure measures are in place that allows meltwater to pass through, ensure movement of fish is not impeded, and prevent pooling on the upstream side of the snow fill. Snow fill and any installed culverts must be removed prior to spring snow melt;

g. 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;

h. 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 meters 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 must not disturb beds of fish bearing streams, lakes or wetlands except as necessary to ensure safe installation and operation of equipment, and must be screened with maximum mesh sizes and approach velocities in accordance with the Fisheries and Oceans Canada 'Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater', 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;

v. records of water withdrawal and corresponding streamflow measurements are maintained by the permit holder and provided to the BC Energy Regulator upon request.

i. Bridge or culvert abutments, footings and associated scour protection must be located outside the natural stream channel and must not constrict the channel width.

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

i. organic cover within and adjacent to the wetland must be retained;

ii. minimize erosion or release of sediment within the wetland;

iii. any padding materials must be placed on the wetland surface only and must not be used for infilling;

iv. any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and

11. the wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated

Activity Specific Details, Permissions and Conditions

Short Term Water Use

Short Term Water Use Number - 0006497
Approval Period: From: May 12, 2023, To: May 11, 2025

Activity Details

Point of Diversion No.: 001	**Water Source Name:** Unnamed Lake (PODKP626+500)
Type: Lake/Pond **Purpose:** Oil and Gas, Industrial & Storage **Location (UTM):** Zone 09, Northing 5990215, Easting 554449 **Maximum Withdrawal Rate (m^3/s):** 0.116m **Daily Withdrawal Volume (m^3/day):** 10,000 **Total Withdrawal Volume (m^3):** 10,001	

All authorizations for this activity are subject to the following conditions:

Short Term Water Use Conditions

12. A copy of this authorization must be available for inspection at the point of diversion and use location(s).

13. Water withdrawn under this authorization must only be used for the purposes of carrying out the oil and gas activities or related activities.

14. Water must not be diverted or withdrawn from any beaver pond.

15. End-of-pipe intakes must be screened with maximum mesh sizes in accordance with the Fisheries and Oceans Canada 'Interim Code of Practice: End-of-pipe fish protection screens for small water intakes in freshwater'.

16. The permit holder must maintain accurate records of all water withdrawal activities throughout the term authorized. Water withdrawal records for each diversion point, including '0' values for months where no water was withdrawn,

must be recorded monthly. Water withdrawal records must be submitted to the BC Energy Regulator on a quarterly basis via e-Submission. Quarterly reports are due on or before April 25, July 25, October 25 and January 25.

17. At any time, the BC Energy Regulator may suspend short term water use previously authorized. Water use suspensions will remain in place until such time as the BC Energy Regulator notifies permit holders that water withdrawals may resume.
18. Water withdrawal from POD #001 is not authorized from November 01 to April 30.
19. The approval holder is authorized to store fresh water diverted under this use approval in dugouts or other freshwater storage structures provided:
    a. the approval holder holds a valid permit or authorization to occupy the land on which the dugout or structure is located on unless a permit or authorization is not required, and
    b. the dugout or structure is not subject to the Dam Safety Regulation unless the approval holder has a valid Water License and Leave to Operate the water storage structure.
20. Topsoil stripping, ditching and road bed construction are not permitted within the temporary access trails.

Advisory Guidance

1. CIAS Sketch Plan - CGW4703-MCSL-G-MP-3087-POD_KP626+500-Sketch-Rev0.pdf, Diversion Map - CGW4703-MCSL-G-MP-3087-POD_KP626+500-Sketch-Rev0.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 BC Energy Regulator'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.

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Corey Scofield
Authorized Signatory
BC Energy Regulator Delegated Decision Maker

Copied to:

First Nations – Haisla Nation Council

Attn: Sketch Plan Showing Temporary Access and Proposed Water Source Point of Deversion POD KP 626 + 500 within Unit 64, Block B Group 103 – I – 1 Within Unsurveyed Crown Land Construction Section 8W, dated October 27, 2022