



OGC File: 9637431

March 1, 2013

Coastal GasLink Pipeline Ltd.
450 – 1st Street SW
Calgary, Alberta T2P 5H1

Attention: Surface Land Administrator

Re: Investigative Permit- Section 14 over Crown Land, Caribou District
within units 65, 74 and 75, block G, 93-J-6.

Date of Issuance: March 1, 2013
Commission File No: 9637431
Applicant File No: 120496

PERMISSIONS

The Oil and Gas Commission ("Commission") hereby authorizes the holder of permit number 9637431, under section 14 of the *Land Act*, to allow Coastal GasLink Pipeline Ltd. (the "permit holder") to occupy Crown land within the areas described as "Investigative Area" in the attached sketch plan Document No: CGE4703-MSI-G-MP-021-SalmonR-BH-Sketch, Revision 1, dated November 27, 2012 as submitted to the Commission in the permit application dated December 3, 2012 (hereinafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 939808, subject to conditions set out below.

CONDITIONS

1. The permit holder may use and occupy the Site only for the purposes of investigating the site for potential oil and gas activities and related activities as defined in the *Oil and Gas Activities Act*.
2. The total disturbance within the Site must not exceed 0.474Ha.
3. The permit holder will indemnify the Province of British Columbia (the Province) and the Oil and Gas Commission against all losses, damages, costs and liabilities arising out of any breach or non-performance of any condition or agreement set out in this Permit and any personal injury, death or property damage occurring within the Site, or happening by virtue of its occupation of the Site, and the amount of such losses, damages and costs shall be payable to the Province or the Oil and Gas Commission immediately.
4. The permit holder will immediately effect, and keep in force while this Permit is in effect, 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 or public liability claims arising from any accident or occurrence on the Site.

5. The permit holder will restore the site to the satisfaction of the Oil and Gas Commission following expiration or cancellation of this Permit.
6. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the Site. The permit holder will not interfere with any person found on the Site who has a public right of access over the Site or is using the Site pursuant to a prior or subsequent *Land Act* disposition.
7. The rights granted by this permit are subject to all subsisting grants to or rights of any person made or acquired under the *Coal Act*, *Forest Act*, *Mineral Tenure Act*, *Petroleum and Natural Gas Act*, *Range Act*, *Water Act* or *Wildlife Act*, or any extension or renewal of the same, any prior dispositions made under the *Land Act*, and the exceptions and reservations of rights and interests under Section 50 of the *Land Act*.
8. The permit holder will acknowledge and agree that any interference with rights granted under this permit by virtue of the exercise or operation of the rights or interests set out in the Sections (6) or (7) above shall not constitute a breach of the Province's or the Commission's obligations under this permit and the permit holder will release and discharge the Province and/or the Commission from any claim for loss or damage arising directly or indirectly out of any such interference. The permit holder will also agree to pay all costs and expenses that arise out of the permit holder's interference with the rights or interests set out in Sections (6) or (7) and that the permit holder will not commence or maintain proceedings under Section 65 of the *Land Act* with respect to interference with the permit holder's rights arising out of exercise or operation of the rights set out in Sections (6) or (7).
9. The permit holder must pay to the Province, when due, the Fees to the address and in accordance with the instructions set out in the attached covering letter.
10. The permit holder must not assign or sub-tenure this Permit. The permit holder must not transfer this permit without the Commission's written consent, which consent may be granted or withheld at the Commission's sole discretion.
11. This permit expires two years from the date of issuance.
12. The permit holder must notify the Commission prior to commencing activities under this permit. Notification may be sent to C&E@bcogc.ca.
13. An Archaeological Impact Assessment ("AIA") must be conducted for the proposed development area prior to conducting activities under this Permit.
14. If an archaeological site is recorded as a result of the AIA referenced in condition 13, above: an AIA report must be submitted immediately to the Oil and Gas Commission and all mitigation measures must be approved by the Commission's archaeology staff prior to conducting activities under this Permit; and all activities conducted under this Permit must be completed in accordance with the approved mitigation measures.
15. If no archaeological site is recorded during the AIA referenced in condition 14, above, an AIA report must be submitted to the Commission as soon as possible as per the Archaeology Process Guidelines.
16. In the event that:

- a. a heritage site, heritage object or any other feature, place or material that may contain historical or archaeological value as defined by the Heritage Conservation Act [RSBC 1996] Chapter 187; or
- b. any other cultural heritage material or feature

is encountered while conducting activities under this Permit, the permit holder must cease immediately disturbance activities and immediately notify the Commission.

17. Within 60 days of the completion of the clearing phase of the activity authorized, the permit holder must submit to the Commission a Post-construction plan as an ePASS shape file accurately identifying the locations of the overall disturbance within the Site.
18. The permit holder must abide by and comply with all applicable laws, bylaws, orders, directions, ordinances, and regulations of any government authority having jurisdiction in any way affecting its use or occupation of the Site, including, without limitation, the provisions of the *Land Act* and the provisions of this Permit.

CUTTING PERMIT AUTHORIZATION

Pursuant to section 47.4 of the *Forest Act*, the Commission hereby issues Cutting Permit No. 3, under Master License to Cut number M02341, Prince George Forest District, to cut and remove timber from the areas of Crown land within the Site subject to the following conditions:

1. This Cutting Permit expires 2 years from the date of issuance of the Investigative Permit or the revised date should this permit be extended.
2. This Cutting Permit is subject to the terms and conditions in the Master Licence to Cut.
3. All harvested Crown timber must be marked with Timber Mark Number MSZ 581.
4. The felling, bucking and utilization specifications in the Master License to Cut apply to this Cutting Permit.
5. Stumpage required to be paid under this cutting permit will be calculated using a tabular stumpage rate. A tabular stumpage rate must be obtained from the Ministry of Forest, Land and Natural Resource Operations prior to transporting timber out of the project area.
6. Timber that is stored in decks or piles must be marked with the correct timber mark before transportation, or at the end of every shift. The marking must be applied to one end of at least 10% of the timber pieces in each deck or pile using a hammer indentation or paint. Marking must be kept concurrent with decking.
7. In accordance with the Master Licence to Cut referenced above, "Within 60 days of completing operations on a cutting permit, the Licensee shall submit to the Commission a map showing all disturbances that have occurred pursuant to that Cutting Permit, at a scale of 1:20,000 or 1:50,000."
8. The utilization of merchantable timber is not mandatory for this permit.
9. Prior to harvesting, any clearing authorized by this Cutting Permit must be clearly defined on the ground by ribboning or blazing.
10. This permit authorizes a maximum total new cut area of 0.474Ha within the Site.

CHANGES IN AND ABOUT A STREAM AUTHORIZATION

Pursuant to section 9 of the *Water Act*, the Commission hereby authorizes the permit holder to make changes in and about a stream subject to the following conditions:

1. The approved temporary stream crossing location of the Salmon River on Crown land is located at the UTM location N. 6027442 E. 488812.
2. This approval does not authorize any work or undertaking that results in the harmful alteration, disruption or destruction of fish habitat, as described within the *Federal Fisheries Act of Canada*
3. Stream crossing methods must be selected and constructed in accordance with the *Environmental Protection and Management Guidebook*, including Best Management Practices outlined therein
4. No in-stream works on fish bearing streams that may adversely impact fish or fish habitat are authorized.
5. Refer to the *Forest Practices Code of British Columbia Act – Forest Road Regulation* at: <http://www.for.gov.bc.ca/tasb/legsregs/ARCHIVE/FPC/FPCAREGS/forroad/froadr.htm#section7-1> for more information regarding temporary and permanent structures.

The attached plan(s) form an integral part of this authorization.



Ryan Stark
Natural Resource Officer

pc: FLNRO – Prince George
pc: Lheidli T'enneh Band; Nak'azdli First Nation

LE

ND:

Proposed 10 x 10 Borehole Pad

Investigative Area

Coastal GasLink Study Corridor Centerline

1.5 Access

5.0 Access

Existing Access

PNG Grid Boundary

Windpower Permit, Map Reserve, Notation of Interest

Forest Cut Block

District Lot

Riparian Zone

Water Course

Water Course Crossing

NOTES:

- The proposed project is not within the Agricultural Land Reserve (ALR).

- Project to be flagged at time of construction.

- UTM Coordinates shown are NAD83 Zone 10 N.

- The proposed project is within the South OGC Zone

- Distances shown are in meters and decimals thereof.

MIDWEST SURVEYS LAND SURVEYING LTD.

11003 Alaska Road

Fort St. John, BC

V1J 6P3

Tel: 250-785-3902

IB-0015-12

EPASS # 10040560

BCGS: 93J.035

REVISION

1

Updated Title Block, November 27, 2012

DATA SETS SOURCED ON THIS MAP ARE DEFINED IN THE CGP DATA MATRIX

SCALE 1:7,500

0

100

200

METERS

ACCESS SEGMENTS				
Segment No.	Begin		End	
	Northing	Easting	Northing	Easting
1	6027794	489282	6027675	489127
2	6027670	489119	6027523	488928
3	6027516	488921	6027445	488830
4	6027423	488801	6027289	488627
5	6027159	488455	6027291	488628
6	6027151	488449	6027078	488354
7	6026548	487857	6026756	488052

Water Course Crossings		
Crossing No.	Northing	Easting
1	6027442	488812

Caribou Range: None

Coal License: None

Community Forest: None

Guide / Outfall: 701145

Mineral Reserve: 330210

Range Tenure: None

Trapper: 724T012

Tree Farm License: None

Ungulate Winter Ranges: None

Wildlife Habitat Area: None

Wildlife Tree Retention Area: No

Wood Lot: None

TABLE OF AREAS REQUIRED (CROWN LANDS)					
Proposed Feature:	New Cut	Existing Clearing	Total	Northing	Easting
Borehole Pad #1	0.000 ha	0.010 ha	0.010 ha	6027678	489118
Borehole Pad #2	0.000 ha	0.010 ha	0.010 ha	6027525	488920
Borehole Pad #3	0.010 ha	0.000 ha	0.010 ha	6027161	488447
Borehole Pad #4	0.000 ha	0.010 ha	0.010 ha	6026699	487988
1.5 Access	0.108 ha	0.097 ha	0.205 ha		
5.0 Access	0.109 ha	0.120 ha	0.229 ha		
Total Areas	0.227 ha	0.247 ha	0.474 ha		
Investigative Area Total Area = 19.00 ha.					

Coastal GasLink Pipeline Project

TransCanada

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

SALMON RIVER

WITHIN 9637431

Units 65, 74 & 75, Block G, Group 93-J-6

CARIBOO DISTRICT

Route Reference: CGP_Route_RevB

Document No. CGE4703-MSI-G-MP-021-SalmonR-BH-Sketch

November 27, 2012

Rev 1

R:\2012\B-0007-12\CADD\COASTAL GAS LINK\SKETCH PLANS\BORE HOLES\CGE4703-MSI-G-MP-021-SalmonR-BH-Sketch

OGC File Number: 9637431

September 4, 2014

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

Attention: Surface Land Administrator

Re: Amendment to Investigative Permit–Section 14 over Crown Land, Cariboo District within Unit 65, 74 & 75, Block G, Group 93-J-6, Block J, 103-H-15.

Date of Issuance: September 4, 2014

Commission File No.: 9637431

Applicant File No.: 120496 (Salmon River Micro Tunnel)

The Oil and Gas Commission (Commission) hereby grants an amendment to the permit dated March 1, 2013 under Section 14 of the *Land Act* under Authorization 939808, to allow Coastal GasLink Pipeline Ltd. (the "permit holder") to occupy Crown land within the area indicated on the attached sketch plan, Midwest Surveys Job#: CGE4703-MSI-G-MP-208-SalmonR-BH-Sketch Revision: 2, dated April 25, 2014, as submitted to the Commission on May 12, 2014, subject to the conditions set out below:

1. The permit is amended to increase the disturbance within the investigative area by:

- a. Borehole Pads: 0.037 ha.
- b. Temporary Access Trail: 0.040 ha.

to a total of 0.551 ha.

2. An Archaeological Impact Assessment (AIA) is required for the proposed development area prior to any development activities taking place.

If an archaeological site is recorded as a result of this assessment, a report must be submitted immediately to the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations(Archaeology Branch) and the Commission and all mitigation measures must be approved by the Archaeology Branch prior to the start of construction.

If no archaeological site is recorded during this assessment, an AIA report is still required and must be submitted to the Archaeology Branch and the Commission as soon as possible as per the Archaeology Process Guidelines.

If artifacts, 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 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 Archaeology Branch and the Commission; and

- 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, endorsed by a qualified archaeologist, and approved by the Archaeology Branch.
3. The permit holder must notify the Lheidli T'enneh Band prior to commencement of activities.
4. The permit holder must notify the Nak'azdli First Nation prior to commencement of activities.

The permit holder must comply with all conditions in the original permit and subsequent amendments.

The permit holder shall comply with all applicable laws, including the *Fisheries Act (Canada)*, *Water Act*, *Environmental Management Act*, *Workers Compensation Act*, *Wildlife Act* and the *Forest Act*.

This amendment forms an integral part of your permit and should be attached hereto.



Justin Anderson
Natural Resource Officer

pc: Lheidli T'enneh Band
pc: Nak'azdli First Nation
pc: Roy Northern Land and Environmental

LEGEND:

- Proposed Borehole Pad
- Investigative Area Under OGC File No. 9637431
- Coastal GasLink Proposed Route
- Temporary 8.0 Trail
- Existing Access
- District Lot
- PNG Grid Boundary
- Windpower Permit, Map Reserve, Notation of Interest
- Forest Cut Block
- Existing Temporary Crown Land Disturbance Footprint OGC File No. 9637431
- Hydrology (TRIM Data)
- Riparian Zone

NOTES:

- The proposed project is not within the Agricultural Land Reserve (ALR).
- Project to be flagged at time of construction.
- UTM Coordinates shown are NAD83 Zone 10 N.
- The proposed project is within the South West OGC Zone.
- Distances shown are in meters and decimals thereof.

MIDWEST SURVEYS LAND SURVEYING LTD.
 11003 Alaska Road
 Fort St. John, BC
 V1J 6P3
 Tel: 250-785-3902
 IB-0015-12

EPASS # 10046240 & 10040560 (OGC FILE No. 9637431)

BCGS: 93J.035

REVISION	DESCRIPTION
2	Issued, April 25, 2014

SCALE 1:7,500

120 80 40 0 100 200 METERS

Caribou Range: None
Coal License: None
Community Forest: None
Guide / Outfitter: 701145
Mineral Reserve: 330210
Mineral Interest: None
Range Tenure: None
Trapper: 724T012
Tree Farm License: None
Ungulate Winter Ranges: None
Wildlife Habitat Area: None
Wildlife Tree Retention Area: No
Wood Lot: None

Water Course Crossings		
Crossing No.	Northing	Easting
1	6027369	489331

TEMPORARY TRAIL SEGMENTS				
Segment No.	Begin		End	
	Northing	Easting	Northing	Easting
1	6027514	488914	6027488	488877
2	6027378	488734	6027403	488764

Table of Areas (Crown Lands): New Cut Proposed New Activity Within Existing OGC FILE No. 9637431

Proposed Feature:	Permitted Area	Proposed Amended Area	Total Area
Borehole Pads	0.040 ha	0.000 ha	0.040 ha
Temporary Trail	0.434 ha	0.000 ha	0.434 ha
Total Areas (Footprint)	0.474 ha	0.000 ha	0.474 ha

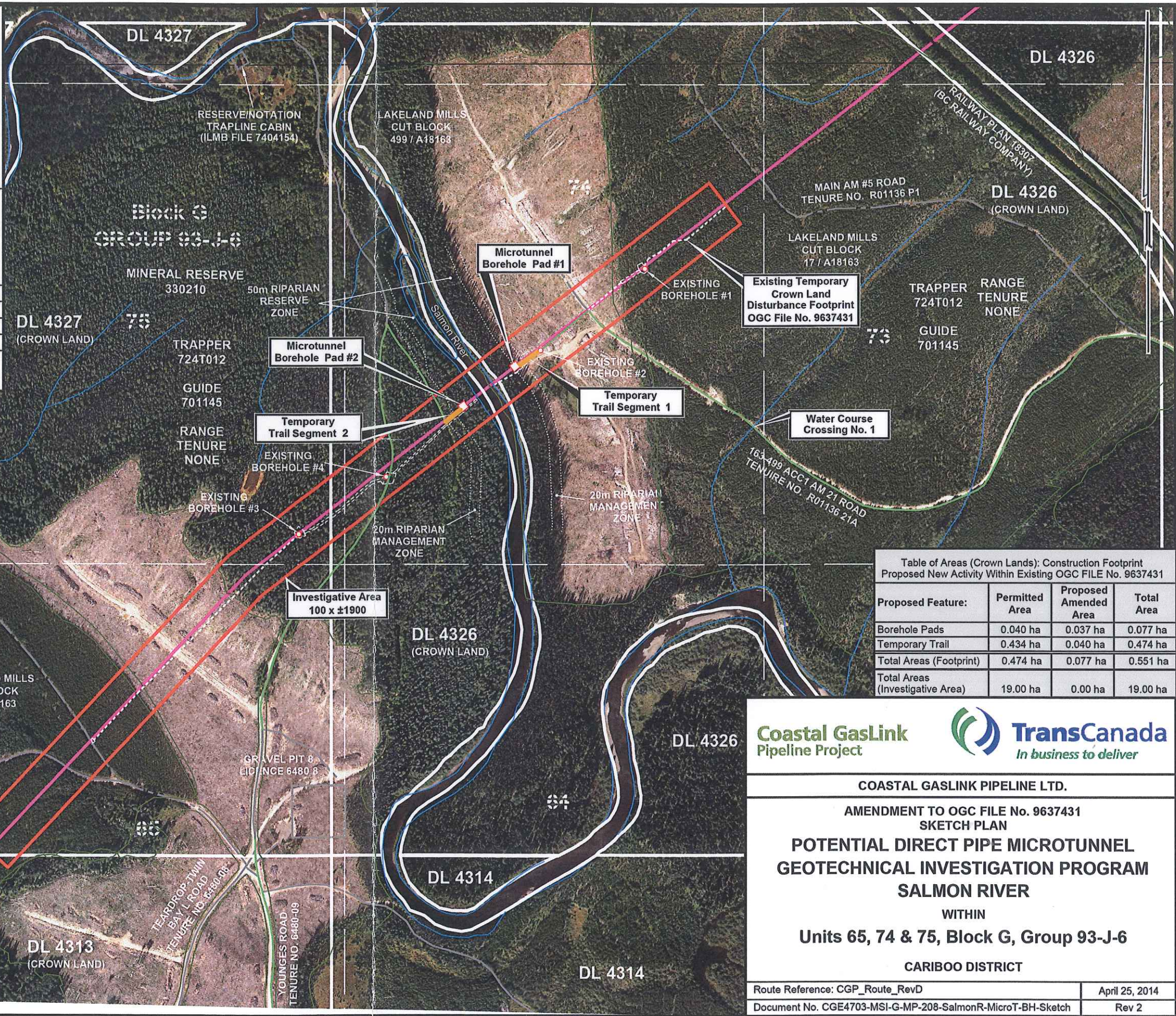


Table of Areas (Crown Lands): Construction Footprint Proposed New Activity Within Existing OGC FILE No. 9637431

Proposed Feature:	Permitted Area	Proposed Amended Area	Total Area
Borehole Pads	0.040 ha	0.037 ha	0.077 ha
Temporary Trail	0.434 ha	0.040 ha	0.474 ha
Total Areas (Footprint)	0.474 ha	0.077 ha	0.551 ha
Total Areas (Investigative Area)	19.00 ha	0.00 ha	19.00 ha

Coastal GasLink Pipeline Project

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AMENDMENT TO OGC FILE No. 9637431
 SKETCH PLAN

**POTENTIAL DIRECT PIPE MICROTUNNEL
 GEOTECHNICAL INVESTIGATION PROGRAM
 SALMON RIVER**

WITHIN
Units 65, 74 & 75, Block G, Group 93-J-6

CARIBOO DISTRICT

Route Reference: CGP_Route_RevD	April 25, 2014
Document No. CGE4703-MSI-G-MP-208-SalmonR-MicroT-BH-Sketch	Rev 2