



OGC File: 9638178

Coastal GasLink Pipeline Ltd.  
450 – 1<sup>st</sup> Street SW  
Calgary, AB  
T2P 5H1

Attention: Surface Land Administrator

Re: Investigative Permit- Section 14 over Crown Land, Range 5, Coast District  
within Unit 35 Block B, 103-102.

Date of Issuance: July 12, 2013  
Commission File No: 9638178  
Applicant File No: 130473

## PERMISSIONS

The Oil and Gas Commission ("Commission") hereby authorizes the holder of permit number 9638178, 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 Borehole Pad #1, Borehole Pad #2 and 5.0 Access in the attached sketch plan Document No: CGW4703-MCSL-G-MP-009-GeoTech Kitimat River HDD Sketch-Rev0, Revision 0, dated March 20, 2013, as submitted to the Commission in the permit application dated May 10, 2013 (hereinafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 940996, 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 area within the Site must not exceed 2.61 Ha.
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](mailto:C&E@bcogc.ca).
13. An Archaeological Impact Assessment is required for the proposed development area prior to any development activities taking place.
14. 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.

15. 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.
16. 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 M02344, Kalum Forest District, to cut and remove timber from the areas of Crown land within the area 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 897.
4. The felling, bucking and utilization specifications in the Master License to Cut apply to this Cutting Permit.
5. Stumpage under this cutting permit is required to be paid to the Crown and will be determined with the Ministry of Forests Interior Appraisal Manual.
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 0.17 Ha within the Site.

#### ADDITIONAL CONDITIONS

1. The Permit holder is to ensure a qualified professional is on site for operations within the Riparian Management Area of the Kitimat River. This individual must have the authority to issue a stop work order if fish/wildlife or important fish/wildlife habitat is determined to be at risk, and will be responsible for developing /implementing mitigation measures to reduce the impacts on fish/wildlife, as required.
2. The bore holes and access located on private land, as shown on the attached plan, are not authorized in this Permit.

3. The Oil and Gas Commission recommends the Permit holder notify the Haisla Nation Council prior to project commencement.
4. Activities must not conflict with fall flood events between July 15 and September 15. If operations cannot be completed within this timeframe, the Permit holder is to ensure a qualified professional is on site during the timing windows identified. This individual must have the authority to issue a stop work order if flooding of the site is anticipated.
5. The attached plan(s) form an integral part of this authorization.



Allison Mackay  
Natural Resource Officer

pc: FLNRO – Kalum Forest District  
pc: Haisla Nation Council  
pc: Roy Northern Land and Environmental



July 9, 2015

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

Attention: Coastal GasLink Pipeline Ltd.

**RE: Temporary Occupation of Crown Land – Investigative Use Permit**  
**Investigative Use Location: d-35-B/102-I-02, a-45-B/103-I-2**  
**Date of Issuance: July 9, 2015**  
**Commission File No: 9638178**

#### **AUTHORIZATIONS**

##### **Temporary Permit under section 14 of the *Land Act***

1. The BC Oil and Gas Commission, hereby authorizes the holder of Permit number 9638179, to temporarily occupy and use Crown land for the purpose of constructing and operating an Investigative Use Permit, under Authorization Number 948896, subject to the following:
  - a. The authorization granted under this Permit is limited to the area described in construction plan number CGW4703-MSCL-G\_MP\_009\_Geotech Kitimat River HDD Sketch-Rev0, Rev 0, dated March 20, 2013.
  - b. The prescribed period of this Permit expires on July 8, 2016.
  - c. The Permit holder will indemnify the Province of British Columbia (the "Province") and the 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 on the site or happening by virtue of the Permit holder's occupation of the site, and the amount of such losses, damages and costs shall be payable to the Province or the Commission immediately.
  - d. The Permit holder will immediately effect, and keep in force while occupying the site, 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.
  - e. The authorization to occupy and use Crown land does not entitle the Permit holder to exclusive possession of the area. The Permit holder will not interfere with the activities of another person entering on and using the area under a prior or subsequent Land Act disposition.
  - f. 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.
  - g. 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 sections (c) or (d) 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 (c) or (d) 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 (c) or (d).
  - h. The Permit holder must pay, when due, the Fees to the address set out in the attached covering letter.

- i. The Permit holder must not assign, sublicense or transfer this Permit or Permit any person to use or occupy the Land, without the Commission's written consent.

#### Additional 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 permit holder will restore the site to the satisfaction of the Oil and Gas Commission following expiration or cancellation of this Permit.
3. The total disturbance within the Site must not exceed 2.61Ha.
4. The permit holder must notify the Commission 48 hours prior to commencing construction. Notification must be sent to [C&E@bcogc.ca](mailto:C&E@bcogc.ca).
5. 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 Forestry, 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 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.
6. 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.
  7. The Permit holder is to ensure a qualified professional is on site for operations within the Riparian Management Area of the Kitimat River. This Individual must have the authority to Issue a stop work order If fish/wildlife or Important fish/wildlife habitat is determined to be at risk, and will be responsible for developing /implementing mitigation measures to reduce the Impacts on fish/wildlife, as required.
  8. The bore holes and access located on private land, as shown on the attached plan, are not authorized In this Permit.
  9. The permit holder must notify the Haisla Nation Council prior to commencement of activities.
  10. Activities must not conflict with fall flood events between July 15 and September 15. If operations cannot be completed within this timeframe, the Permit holder is to ensure a qualified professional is on site during the timing windows Identified. This individual must have the authority to Issue a stop work order If flooding of the site is anticipated.
  11. The attached plan(s) form an integral part of this authorization.

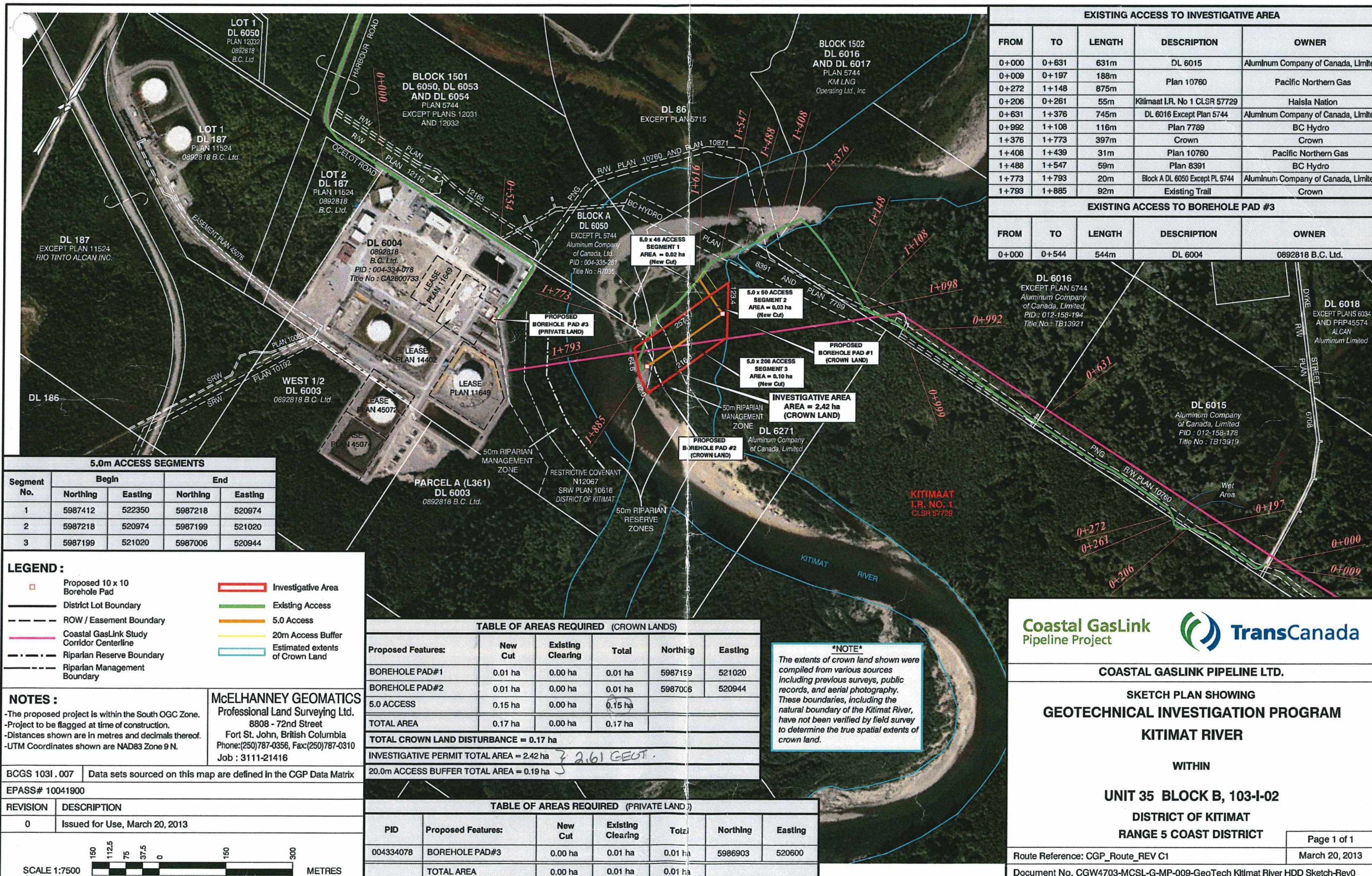
## CUTTING PERMIT AUTHORIZATION

1. The Commission hereby issues the Permit holder Cutting Permit No. 3 under Master Licence to Cut number M02344, subject to the following conditions:
  - a. This Cutting Permit is subject to the terms and conditions in the Master Licence to Cut.
  - b. This Cutting Permit applies to only the Crown land portion shown on survey plan associated with this Permit (survey plan number, CGW4703-MSCL-G\_MP\_009\_Geotech Kitimat River HDD Sketch-Rev0, Rev 1, dated March 20, 2013).
  - c. All harvested Crown timber must be marked with Timber Mark Number MSZ 897.
  - d. This Cutting Permit is deemed spent upon the submission of the "Post-Construction Plan" or upon either the cancellation or the expiry of the "permitted oil and gas activity".
  - e. This Cutting Permit does not grant the Permit Holder the exclusive right to harvest timber from the License area and the Commission reserves the right to grant rights to other persons to harvest timber from the License area.
  - f. The felling, bucking and utilization specifications as described in Appendix A of your Master Licence to Cut applies to this Cutting Permit.
  - g. Stumpage for this Cutting Permit will be calculated in accordance with the Coast Appraisal Manual (volume based)
  - h. 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.
  - i. Where the Permit Holder is aware of overlapping forest tenure rights that have been granted to other persons, the Permit Holder is obligated to communicate to these persons the timing and extent of their harvest operations at least two weeks prior to commencement of harvest and take all reasonable steps to coordinate their activities with these persons.
  - j. 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".
2. This permit authorizes a maximum total new cut area of 0.17 ha within the site.



Justin Anderson  
Authorized Signatory  
Commission Delegated Decision Maker

cc: Roy Northern  
OGC File: 9638178  
WorkSafe BC



EXISTING ACCESS TO INVESTIGATIVE AREA				
FROM	TO	LENGTH	DESCRIPTION	OWNER
0+000	0+631	631m	DL 6015	Aluminum Company of Canada, Limited
0+009	0+197	188m	Plan 10760	Pacific Northern Gas
0+272	1+148	875m		
0+206	0+261	55m	Kitimaat I.R. No 1 CLSR 57729	Haisla Nation
0+631	1+376	745m	DL 6016 Except Plan 5744	Aluminum Company of Canada, Limited
0+992	1+108	116m	Plan 7789	BC Hydro
1+376	1+773	397m	Crown	Crown
1+408	1+439	31m	Plan 10760	Pacific Northern Gas
1+488	1+547	59m	Plan 8391	BC Hydro
1+773	1+793	20m	Block A DL 6050 Except PL 5744	Aluminum Company of Canada, Limited
1+793	1+885	92m	Existing Trail	Crown

EXISTING ACCESS TO BOREHOLE PAD #3				
FROM	TO	LENGTH	DESCRIPTION	OWNER
0+000	0+544	544m	DL 6004	0892818 B.C. Ltd.

5.0m ACCESS SEGMENTS				
Segment No.	Begin		End	
	Northing	Eastng	Northing	Eastng
1	5987412	522350	5987218	520974
2	5987218	520974	5987199	521020
3	5987199	521020	5987006	520944

**LEGEND :**

- Proposed 10 x 10 Borehole Pad
- District Lot Boundary
- ROW / Easement Boundary
- Coastal GasLink Study Corridor Centerline
- Riparian Reserve Boundary
- Riparian Management Boundary
- Investigative Area
- Existing Access
- 5.0 Access
- 20m Access Buffer
- Estimated extents of Crown Land

**NOTES :**

- The proposed project is within the South OGC Zone.
- Project to be flagged at time of construction.
- Distances shown are in metres and decimals thereof.
- UTM Coordinates shown are NAD83 Zone 9 N.

**McELHANNEY GEOMATICS**  
 Professional Land Surveying Ltd.  
 8808 - 72nd Street  
 Fort St. John, British Columbia  
 Phone: (250) 787-0356, Fax: (250) 787-0310  
 Job : 3111-21416

TABLE OF AREAS REQUIRED (CROWN LANDS)					
Proposed Features:	New Cut	Existing Clearing	Total	Northing	Eastng
BOREHOLE PAD#1	0.01 ha	0.00 ha	0.01 ha	59871E9	521020
BOREHOLE PAD#2	0.01 ha	0.00 ha	0.01 ha	59870C6	520944
5.0 ACCESS	0.15 ha	0.00 ha	0.15 ha		
<b>TOTAL AREA</b>	<b>0.17 ha</b>	<b>0.00 ha</b>	<b>0.17 ha</b>		
<b>TOTAL CROWN LAND DISTURBANCE = 0.17 ha</b>					
INVESTIGATIVE PERMIT TOTAL AREA = 2.42 ha					
20.0m ACCESS BUFFER TOTAL AREA = 0.19 ha					

**\*NOTE\***  
 The extents of crown land shown were compiled from various sources including previous surveys, public records, and aerial photography. These boundaries, including the natural boundary of the Kitimat River, have not been verified by field survey to determine the true spatial extents of crown land.

TABLE OF AREAS REQUIRED (PRIVATE LANDS)						
PID	Proposed Features:	New Cut	Existing Clearing	Total	Northing	Eastng
004334078	BOREHOLE PAD#3	0.00 ha	0.01 ha	0.01 ha	5986903	520600
<b>TOTAL AREA</b>		<b>0.00 ha</b>	<b>0.01 ha</b>	<b>0.01 ha</b>		



**COASTAL GASLINK PIPELINE LTD.**

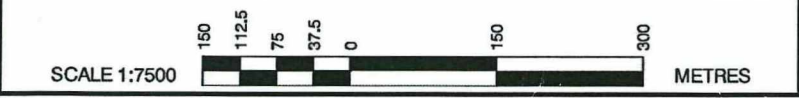
**SKETCH PLAN SHOWING  
 GEOTECHNICAL INVESTIGATION PROGRAM  
 KITIMAT RIVER**

WITHIN  
**UNIT 35 BLOCK B, 103-I-02  
 DISTRICT OF KITIMAT  
 RANGE 5 COAST DISTRICT**

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Route Reference: CGP\_Route\_REV C1  
 March 20, 2013

Document No. CGW4703-MCSL-G-MP-009-GeoTech Kitimat River HDD Sketch-Rev0



9638178