

Commission File: 9638318

July 28, 2016

Coastal Gaslink Pipeline Ltd.
450 -1st Street SW
Calgary, Alberta T2P 5H1;

Attention: Surface Land Administrator

Re: Correction of a Geotechnical Investigation located within Units 98 & 99, Block G, Group 93-J-16 and Units 8 & 9, Block J, Group 93-J-16

The Oil and Gas Commission hereby corrects the Permit and Authorizations Associated with the Permit containing 1.45 hectares, as shown on construction plan CGE4703-MSI-G-MP-306-MountBracey-BH-PostConstruction, revision 0, dated April 29, 2014, as follows:

- To replace Condition 2. To read:
 2. A notice of construction start must be submitted to the Commission a minimum of 48 hours prior to the commencement of activities under this permit. Notification must be sent via email OGC.ExternalNotifications@bcogc.ca.
- To replace condition 4 (3) to read:
 - (3) ensure re-vegetation of any exposed soil on the operating area including, where necessary, using seed or vegetative propagules of an ecologically suitable species that:
 - (a) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
 - (b) stabilize the soil if it is highly susceptible to erosion.

The permit holder must comply with all conditions in the original permission and any additional conditions as noted above.

This letter forms an integral part of your Permit and should be attached thereto.



Ashley Istead
Natural Resource Officer

cc: Roy Northern Land Service Ltd.
OGC File: 9638318
OGC First Nations (MLIB, SFN, WMFN)



July 13, 2016

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

Attention: Katherine Sheriff

RE: Geotechnical Investigation within Units 98 & 99, Block G, Group 93-J-16 and Units 8 & 9, Block J, Group 93-J-16

Date of Issuance: July 24, 2016
Commission No.: 9638318

AUTHORIZATIONS

Land Act

1. The BC Oil and Gas Commission (the "Commission"), under section 39 of the *Land Act*, hereby authorizes Coastal GasLink Pipeline Ltd. (the "permit holder") to occupy and use the Crown land area identified in the attached construction plan number CGE4703-MSI-G-MP-306-MountBracey-BH-PostConstruction, revision 0, dated April 29, 2014 (the "construction plan"), submitted to the Commission dated June 20, 2016 (hereinafter referenced together as the "operating area") to construct and operate a related activity for the purposes of carrying out oil and gas activities as defined in the *Oil and Gas Activities Act*, subject to the conditions set out below.
 - (1) The total disturbance within the operating area must not exceed 1.45 ha.
 - (2) A section 39 License of Occupation for the Crown land portion of this authorization is attached or will follow. The permit holder is subject to the conditions contained in the Licence of Occupation.
 - (3) The authorization to occupy and use Crown land expires two years from the date of issuance, unless the Commission has received notice of construction start, or this permit is otherwise extended, suspended, cancelled, surrendered or declared spent.

CONDITIONS

Notification:

2. A notice of construction start must be submitted to the Commission a minimum of 48 hours prior to the commencement of activities under this permit. Notification must be sent via eSubmission.
3. 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.

Environmental:

4. Following completion of the activities authorized herein the permit holder must, as soon as practicable:
 - (1) decompact any soils compacted by the activity;
 - (2) if natural surface drainage pattern was altered by the carrying out of the activity, the permit holder must restore, to the extent practicable, to the drainage pattern and its condition before the alteration; and
 - (3) re-vegetate any exposed soil on the operating area using seed or vegetative propagules of an ecologically suitable species that:
 - (a) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
 - (b) stabilize the soil if it is highly susceptible to erosion.
5. Following completion of the activities authorized herein, any surface soils removed from the site must be redistributed so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.

Clearing:

6. The permit holder is authorized to fell any trees located on Crown land within 1.5 tree lengths of the operating 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 operating area without causing damage to standing timber may be harvested.

Archaeology:

7. An Archaeological Impact Assessment 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 Oil and Gas Commission and all mitigation measures must be approved by OGC archaeology staff 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 OGC as soon as possible as per the Archaeology Process Guidelines.

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 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
- 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 the Heritage Conservation Act, endorsed by a qualified archaeologist, and approved by the Commission.

ADVISORY GUIDANCE

1. Appropriate tenure will be issued upon acceptance of the post-construction plan. Submission of the original application and submission of the post-construction plan is considered an application for all subsequent applicable *Land Act* tenures. Upon the Commission's acceptance of the post-construction plan no further applications for replacement tenure are required.

2. 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*.

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



For:
Ashley Istead
Natural Resource Officer

pc: Roy Northern Land Service Ltd.
Commission No.: 9638318
Worksafe BC
OGC First Nations: MLIB, SFN, WMFN



July 24, 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: Units 98 & 99, Block G, Group 93-J-16 and Units 8 & 9, Block J, Group 93-J-16.
Date of Issuance: July 24, 2015
Commission File No: 9638318

AUTHORIZATIONS

Temporary Permit under section 14 of the *Land Act*

1. The BC Oil and Gas Commission, hereby authorizes the holder of Permit number 9638318, to temporarily occupy and use Crown land for the purpose of conducting appraisals, inspections, analyses, inventories, surveys or other investigations, under Authorization Number 948948, subject to the following:
 - a. The authorization granted under this Permit is limited to the area described in construction plan number CGE4703-MSI-G-MP-307-MountBracey-BH-AsCleared, revision 0, dated April 29, 2014.
 - b. The prescribed period of this Permit expires on July 23, 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 4.52 ha.
4. The permit holder must notify the Commission 48 hours prior to commencing construction. Notification must be sent to 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 authorized for temporary stream crossing(s), subject to the following conditions:
 - a. Any substance, sediment, debris or material that could adversely impact the stream
 - i. must not be allowed or permitted to enter or leach or seep into the stream from an activity, construction, worksite, machinery or from components used in the construction of any works, or
 - ii. must not be placed, used or stored within the stream channel;
 - b. Temporary material, fill, bridge, culvert, pump, pipe, conduit, ditch or other structure used in the construction of any works must be constructed and maintained only during the period of construction, and must be removed upon completion of the works;
 - c. Activities associated with the stream crossing are carried out in accordance with the timing window or the period or periods on time in the year which the change can proceed without causing harm to fish, wildlife or habitat;
 - d. The stream crossing does not prevent the movement of fish, nor impede the movement of fish to the extent that it is harmful to the survival of the fish;

- e. Stream crossing(s) must be planned, constructed and removed in accordance with the appropriate Department of Fisheries and Oceans Canada Operational Statement;
 - f. During the restoration of a change in and about a stream, the permit holder must ensure that:
 - i. any structures constructed to cross the stream are removed,
 - ii. the channel is restored to its natural state, to the extent practicable,
 - iii. the site of the crossing and associated approaches (including cut and fill slopes and ditch lines) are restored by:
 - 1. stabilizing any waste materials removed from the site to above the high water mark to prevent them from entering the stream,
 - 2. re-vegetating disturbed areas associated with the crossing using seed or vegetative propagules of an ecologically suitable species,
 - 3. redistributing coarse wood debris in a manner that aids soil stabilization, and
 - 4. ensuring that surface drainage associated with approaches will not transport sediments into the stream.
8. The attached plan(s) form an integral part of this authorization.



Justin Anderson
Authorized Signatory
Commission Delegated Decision Maker

cc: Roy Northern
OGC File: 9638318
WorkSafe BC

Borehole	Northing	Easting	Elevation
BH 1	6085722.3	549406.0	832.6
BH 2	6085738.3	549431.3	832.3
BH 3	6085784.1	549466.1	832.3
BH 4	6085803.6	549499.0	832.1
BH 5	6085699.1	549455.8	830.4
BH 6	6085731.7	549485.3	827.4
BH 7	6085681.9	549471.2	829.9
BH 8	6085732.4	549518.5	827.9
BH 9	6085783.2	549570.3	832.0
BH 10	6085834.9	549619.4	835.3
BH 11	6085631.2	549454.5	828.8
BH 12	6085657.9	549491.7	830.6
BH 13	6085711.2	549541.3	832.3
BH 14	6085762.7	549586.9	831.2
BH 15	6085815.4	549637.3	834.1
BH 16	6085639.4	549493.5	829.7
BH 17	6085691.5	549544.1	831.2
BH 18	6085740.9	549591.9	831.7
BH 19	6085789.8	549639.4	835.6
BH 20	6085639.6	549529.5	829.9
BH 21	6085695.4	549578.9	833.5
BH 22	6085743.0	549630.3	833.9
BH 23	6085797.2	549679.7	838.0
BH 24	6085607.7	549520.7	831.5
BH 25	6085660.6	549566.6	834.4
BH 26	6085715.3	549617.3	834.4
BH 27	6085760.8	549666.2	838.0
BH 28	6085597.6	549580.2	841.5
BH 29	6085646.1	549631.1	842.6
BH 30	6085699.3	549679.3	844.2
BH 31	6085748.5	549731.9	847.3
BH 32	6085552.8	549572.8	842.9
BH 33	6085601.8	549626.3	844.9
BH 34	6085655.7	549671.4	843.8
BH 35	6085705.8	549721.1	847.9
BH 36	6085893.9	549635.7	835.2

LEGEND:

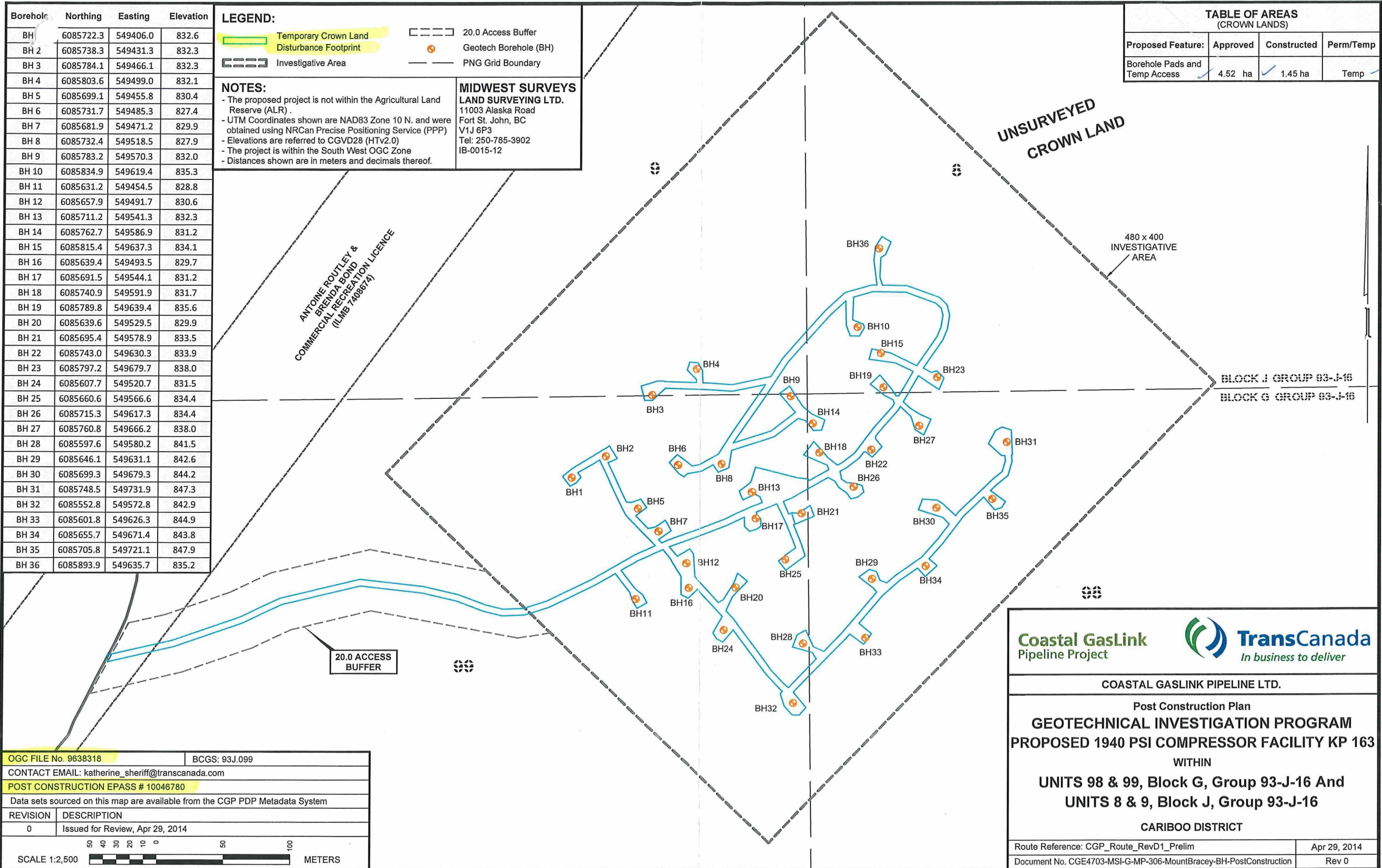
- Temporary Crown Land Disturbance Footprint
- Investigative Area
- 20.0 Access Buffer
- Geotech Borehole (BH)
- PNG Grid Boundary

NOTES:

- The proposed project is not within the Agricultural Land Reserve (ALR).
- UTM Coordinates shown are NAD83 Zone 10 N. and were obtained using NRCAN Precise Positioning Service (PPP).
- Elevations are referred to CGVD28 (HTv2.0).
- The 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

TABLE OF AREAS (CROWN LANDS)			
Proposed Feature:	Approved	Constructed	Perm/Temp
Borehole Pads and Temp Access	4.52 ha	1.45 ha	Temp



OGC FILE No. 9638318 | BCGS: 93J.099

CONTACT EMAIL: katherine_sheriff@transcanada.com

POST CONSTRUCTION EPASS # 10046780

Data sets sourced on this map are available from the CGP PDP Metadata System

REVISION	DESCRIPTION
0	Issued for Review, Apr 29, 2014

SCALE 1:2,500

METERS

Coastal GasLink Pipeline Project

TransCanada
In business to deliver

COASTAL GASLINK PIPELINE LTD.

Post Construction Plan
GEOTECHNICAL INVESTIGATION PROGRAM
PROPOSED 1940 PSI COMPRESSOR FACILITY KP 163

WITHIN

UNITS 98 & 99, Block G, Group 93-J-16 And
UNITS 8 & 9, Block J, Group 93-J-16

CARIBOO DISTRICT

Route Reference: CGP_Route_RevD1_Prelim | Apr 29, 2014

Document No. CGE4703-MSI-G-MP-306-MountBracey-BH-PostConstruction | Rev 0