

October 21, 2019

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

Attention: Coastal GasLink Pipeline Ltd.

**RE: Permit Replacement for Application Determination Number 100084086, OGC Legacy # 9643055**

**Permit Holder:** Coastal GasLink Pipeline Ltd.

**Permit Date of Issuance:** March 29, 2016

**Replacement Date of Issuance:** October 21, 2019

**Replacement Expiration Date:** October 23, 2020

**Application Determination No.:** 100084086

## **GENERAL PERMISSIONS, AUTHORIZATIONS and CONDITIONS**

1. The BC Oil and Gas Commission (the "Commission"), hereby replaces the permit and any associated authorizations to construct and operate an ancillary oil and gas activity.
2. This permit replacement is subject to the conditions of the original permit, authorizations, subsequent amendments, corrections, and any additional conditions as set out herein.
3. The permit has been replaced and will expire on October 23, 2020.

This Replacement forms an integral part of the permit and should be attached thereto.



Norberto Pancera  
Authorized Signatory  
Commission Delegated Decision Maker

Copied to:

Land Agent – Roy Northern Land Service Ltd.  
OGC, Compliance and enforcement

March 15, 2019

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

Attention: Coastal GasLink Pipeline Ltd.

**RE: Permit Replacement for Application Determination Number 100084086, OGC Legacy # 9643055**

**Permit Holder:** Coastal GasLink Pipeline Ltd.  
**Permit Date of Issuance:** March 29, 2016  
**Replacement Date of Issuance:** March 15, 2019  
**Replacement Expiration Date:** October 23, 2019  
**Application Determination No.:** 100084086

## **GENERAL PERMISSIONS, AUTHORIZATIONS and CONDITIONS**

1. The BC Oil and Gas Commission (the "Commission"), hereby replaces the permit and any associated authorizations to construct and operate an ancillary oil and gas activity.
2. This permit replacement is subject to the conditions of the original permit, authorizations, subsequent amendments, corrections, and any additional conditions as set out herein.
3. The permit has been replaced for **six months** and will expire on **October 23, 2019**.

### **Petroleum and Natural Gas Act**

4. Pursuant to Section 138(1) of the Petroleum and Natural Gas Act, the permit holder is authorized to enter, occupy and use any unoccupied Crown land located within the operating area to carry out the associated oil and gas activity authorized under this permit.

## **CONDITIONS**

5. The rights granted by this authorization 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.
6. The Permit holder must not assign or sublicense this permit or permit any person to use or occupy the land, other than its employees, contractors, or representatives, without the Commission's written consent.
7. The Permit Holder must ensure that the area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
8. The Permit Holder must ensure that the area is free of garbage, debris and unused equipment.



Permit Holder: Coastal GasLink Pipeline Ltd.

Application Submission Date: March 11, 2019

Application Determination number: 100084086

Date Issued: March 15, 2019



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Jacqueline Bourke  
Authorized Signatory  
Commission Delegated Decision Maker

cc: Land Agent – Roy Northern Land Service Ltd.  
OGC, Compliance and enforcement

March 21, 2018

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

Attention: Coastal GasLink Pipeline Ltd.

**RE: Permit Replacement for Application Determination Number 100084086, OGC Legacy # 9643055**

**Permit Holder:** Coastal GasLink Pipeline Ltd.  
**Permit Date of Issuance:** March 29, 2016  
**Replacement Date of Issuance:** March 21, 2018  
**Replacement Expiration Date:** March 29, 2019  
**Application Determination No.:** 100084086

## **GENERAL PERMISSIONS, AUTHORIZATIONS and CONDITIONS**

1. The BC Oil and Gas Commission (the "Commission"), hereby replaces the permit and any associated authorizations to construct and operate an ancillary oil and gas activity.
2. This permit replacement is subject to the conditions of the original permit, authorizations, subsequent amendments, corrections, and any additional conditions as set out herein.
3. The permit has been replaced for one year and will expire on March 29, 2019.



Tarilee Rauscher  
Authorized Signatory  
Commission Delegated Decision Maker

pc: Land Agent – Roy Northern Land Service Ltd.  
OGC Compliance & Enforcement



Commission File: 9643055

March 31, 2016

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

Attention: Surface Land Administrator

Re: Correction of Geotechnical Investigation Permit located at Site 3617 within Units 57 and 58 Block H, Group 93-K-4; Site 3559 within Units 80 and 90 Block G, Group 93-K-4; Site 4005A & 4005B within Units 55, 56, 57, 65, and 66 Block F, Group 93-K-4; Site 3519A, 3519B and 3519C within Units 43, 44, 52, 53, 54, and 62 Block E, Group 93-K-4; Site PBS 52 within Unit 42 Block E, Group 93-K-4; Site 2151 within Units 41, 42, 43, 51, 52, 53, 63 and 73 Block H, Group 93-L-1; Site PBS 28 within Units 62 and 72 Block F, Group 93-L-1; Site PBS 25 within Units 74, 84 and 85 Block F, Group 93-L-1; Site PBS 23 within Units 98 and 99 Block F, Group 93-L-1; Site PBS 15A & 15B within Unit 10 Block L, 93-L-1; Site PBS 14/16 within Unit 100 Block E, Group 93-L-1; Site PBS 13 within Units 4, 13 and 14 Block I, Group 93-L-2; Site 1326 within Units 9, 10, 19 and 20 Block I, Group 93-L-2 and Unit 1 Block J, Group 93-L-2; Site 1899 within Units 20 and 30 Block I, Group 93-L-2 and Units 11, 12, 21, 22, 31 and 32 Block J, Group 93-L-2; Site PBS 56 within Unit 24 Block J, Group 93-L-2; Site 1881A and 1881B within Units 11, 12, 13, 21, 22, 23, 31 and 32 Block K, Group 93-L-2 and Unit 30 Block J, Group 93-L-2; Site PBS 55 within Unit 31 Block K, Group 93-L-2; Site 2225 within Units 8, 9, 18 and 19 Block K, Group 93-L-2; Site WP21 within Units 29 and 30 Block L, Group 93-L-2; and Site 1682 within Units 1, 2, 11 and 12 Block K, Group 93-L-4

The Oil and Gas Commission hereby corrects the Permit and Authorizations Associated with the Permit, as shown on construction plans:

McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-001, Sheet 1 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-002, Sheet 2 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-003, Sheet 3 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-004, Sheet 4 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-005, Sheet 5 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-006, Sheet 6 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-006a, Sheet 6a of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-007, Sheet 7 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-008, Sheet 8 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-009, Sheet 9 of 20

Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-010, Sheet 10 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-011, Sheet 11 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-012, Sheet 12 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-013, Sheet 13 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-014, Sheet 14 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-015, Sheet 15 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-016, Sheet 16 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-017, Sheet 17 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-018, Sheet 18 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-019, Sheet 19 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-020, Sheet 20 of 20 Revision 0, dated July 27, 2015.

as follows:


- To correct condition #16 with:

Within 30 days of this approval, a revised ePASS must be submitted to reflect the removal of Potential Borrow Sites 4005A, 4005B, 2151, PBS 13, 1326, 1682 and PBS 14/16.

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

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 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: 9643055

OGC First Nations: Burns Lake Indian Band, Carrier Sekani Tribal Council, Cheslatta Carrier Nation, Office of the Wet'suwet'en, Nee Tahi Buhn Indian Band, Skin Tyee Nation, Stelat'en First Nation, Wet'suwet'en First Nation, Yekooche First Nation



March 29, 2016

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

Attention: Coastal GasLink Pipeline Ltd.

RE: Geotechnical Investigation; Site 3617 within Units 57 and 58 Block H, Group 93-K-4; Site 3559 within Units 80 and 90 Block G, Group 93-K-4; Site 4005A & 4005B within Units 55, 56, 57, 65, and 66 Block F, Group 93-K-4; Site 3519A, 3519B and 3519C within Units 43, 44, 52, 53, 54, and 62 Block E, Group 93-K-4; Site PBS 52 within Unit 42 Block E, Group 93-K-4; Site 2151 within Units 41, 42, 43, 51, 52, 53, 63 and 73 Block H, Group 93-L-1; Site PBS 28 within Units 62 and 72 Block F, Group 93-L-1; Site PBS 25 within Units 74, 84 and 85 Block F, Group 93-L-1; Site PBS 23 within Units 98 and 99 Block F, Group 93-L-1; Site PBS 15A & 15B within Unit 10 Block L, 93-L-1; Site PBS 14/16 within Unit 100 Block E, Group 93-L-1; Site PBS 13 within Units 4, 13 and 14 Block I, Group 93-L-2; Site 1326 within Units 9, 10, 19 and 20 Block I, Group 93-L-2 and Unit 1 Block J, Group 93-L-2; Site 1899 within Units 20 and 30 Block I, Group 93-L-2 and Units 11, 12, 21, 22, 31 and 32 Block J, Group 93-L-2; Site PBS 56 within Unit 24 Block J, Group 93-L-2; Site 1881A and 1881B within Units 11, 12, 13, 21, 22, 23, 31 and 32 Block K, Group 93-L-2 and Unit 30 Block J, Group 93-L-2; Site PBS 55 within Unit 31 Block K, Group 93-L-2; Site 2225 within Units 8, 9, 18 and 19 Block K, Group 93-L-2; Site WP21 within Units 29 and 30 Block L, Group 93-L-2; and Site 1682 within Units 1, 2, 11 and 12 Block K, Group 93-L-4

Date of Issuance: March 29, 2016

Commission No.: 9643055

## PERMISSIONS

### *Petroleum and Natural Gas Act*

1. 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 areas described in the attached sketch plans:

McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-001, Sheet 1 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-002, Sheet 2 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-003, Sheet 3 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-004, Sheet 4 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-005, Sheet 5 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-006, Sheet 6 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-006a, Sheet 6a of 20 Revision 0,



dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-007, Sheet 7 of 20 Revision 0, dated July 27, 2015.
McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-008, Sheet 8 of 20 Revision 0, dated July 27, 2015.
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McElhanney Document: Document No: CGW4703-MCSL-G-MP-481-020, Sheet 20 of 20 Revision 0, dated July 27, 2015.

(the "construction plan"), by McElhanney as submitted to the Commission in the permit application dated McElhanney Geomatics Professional Land Surveying Ltd. 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* (hereinafter referenced together as the "site"), subject to the conditions set out below.

- a. The permission 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 suspended, cancelled, surrendered or declared spent.
- b. The permission to occupy and use Crown land does not entitle the permit holder to exclusive possession of the site.
- c. The total disturbance within the site must not exceed 62.927 ha.
- d. Potential Borrow Sites 4005A, 4005B, 2151, PBS 13, 1326, 1682 and PBS 14/16 are not authorized under this permit.

## **AUTHORIZATIONS**

### ***Forest Act***

2. Pursuant to section 47.4 of the Forest Act, the permit holder is authorized to remove Crown timber from the operating area under Cutting Permit No. 11 under Master Licence to Cut number M02343.
3. 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".

## **CONDITIONS**

### **Notification:**

1. 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 to [OGC.ExternalNotifications@bcogc.ca](mailto:OGC.ExternalNotifications@bcogc.ca).
2. 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 an ePASS shape file and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shape file and plan must be submitted to [postconstructionplan@bcogc.ca](mailto:postconstructionplan@bcogc.ca).
3. The permit holder must notify the Burns Lake Indian Band a minimum of five (5) days prior to commencement of activities under this permit.
4. The permit holder must notify the Carrier Sekani Tribal Council a minimum of five (5) days prior to commencement of activities under this permit.
5. The permit holder must notify the Cheslatta Carrier Nation a minimum of five (5) days prior to commencement of activities under this permit.
6. The permit holder must notify the Office of the Wet'suwet'en a minimum of five (5) days prior to commencement of activities under this permit.
7. The permit holder must notify the Nee Tahi Buhn Indian Band a minimum of five (5) days prior to commencement of activities under this permit.
8. The permit holder must notify the Skin Tyee Nation a minimum of five (5) days prior to commencement of activities under this permit.
9. The permit holder must notify the Stellat'en First Nation a minimum of five (5) days prior to commencement of activities under this permit.
10. The permit holder must notify the Wet'suwet'en First Nation a minimum of five (5) days prior to commencement of activities under this permit.
11. The permit holder must notify the Yekooche First Nation a minimum of five (5) days prior to commencement of activities under this permit.

### **General:**

12. 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.
13. The permit holder must not assign, sublicense or transfer this permit or permit any person to use or occupy Crown land, other than its employees, contractors, or representatives, without the Commission's written consent.

14. The permit holder must ensure that any Crown land within the operating area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
15. The permit holder must ensure that any Crown land within the operating area is free of garbage, debris and unused equipment.
16. Within 30 days of this approval, a revised ePASS must be submitted to reflect the removal of Potential Borrow Sites 4005A, 4005B, 2151, PBS 13, 132, 1682 and PBS 14/16.

**Environmental:**

17. Should construction activities occur between December 1 and April 30 at PBS 55, the permit holder must, prior to construction, conduct a survey identifying any active grizzly bear or black bear den within 200m of any proposed borehole or trail.
18. The permit holder must not undertake construction activities within 200m of an active grizzly bear or black bear den that was identified by the survey conducted in accordance with condition 17, between December 1 and April 30.
19. The permit holder must not undertake any construction or significant maintenance activities at Potential Borrow Site WP21, within the Telkwa Caribou Herd Area between January 15 and July 15.
20. The permit holder must not undertake construction or significant maintenance activities within 1000 metres of UWR U-6-003 between October 31 and June 15.
21. Following completion of the construction activities authorized under this approval 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.
22. Following completion of the activities permitted under this permit, 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.
23. The permit holder must ensure that no deleterious material is deposited into a stream, wetland or lake.
24. The permit holder must not disturb the channel or banks of watercourses.

**Clearing:**

25. All harvested Crown timber must be marked with Timber Mark Number MTB 636.
26. Cutting Permit No. 11 does not grant the Permit Holder the exclusive right to harvest Crown timber from the site. Authority to harvest some or all of the timber may be granted to other persons. The permit holder's right to harvest timber applies to any timber found on the site at the time they undertake harvesting activities.
27. Stumpage for Cutting Permit No. 11 will be calculated in accordance with the Interior Appraisal Manual as amended from time to time. In the current version of the Manual, stumpage will be determined in accordance with Table 6-3 (volume based).
28. The Interior (Coast) merchantability specifications and Monetary Waste Billing requirements in the *Provincial Logging Residue and Waste Measurement Procedures Manual* that are in effect upon issuance of this authorization apply to any waste assessments required under Master License to Cut M02343.



29. The holder of Cutting Permit No. 11 must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.
30. The permit holder is authorized to fell any trees located on Crown land within 1.5 tree lengths of the area shown on the survey plan 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 site without causing damage to standing timber may be harvested.

**Archaeology:**

31. An AIA report must be submitted to the Commission as soon as practicable.

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;
- 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.

**Watercourse Crossings or Works:**

32. Only temporary open bottom structures or clear span bridges may be constructed at stream crossings.
33. Bridge abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width.
34. Equipment used for activities under this permit must not be situated in a stream channel.

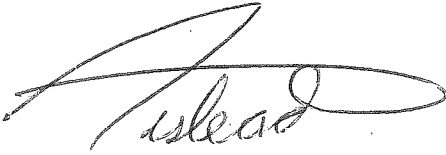
**Additional Conditions:**

35. Topsoil stripping, ditching and road bed construction are not permitted within the temporary access trails.
36. Except to facilitate a crossing, the operating area must not be located within the Riparian Management Area of a stream, wetland, or lake.

**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 authorization 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 permit.



Ashley Istead  
Natural Resource Officer

pc: Roy Northern Land Service Ltd.

Commission No.: 9643055

Worksafe BC

MoFLNRO: Nadina

OGC First Nations: Burns Lake Indian Band, Carrier Sekani Tribal Council, Cheslatta Carrier Nation, Office of the  
Wet'suwet'en, Nee Tahi Buhn Indian Band, Skin Tyee Nation, Stelat'en First Nation, Wet'suwet'en First Nation, Yekooche  
First Nation



LEGEND:

Proposed 30 x 30 Test Pit/ Borehole Pad Investigative Area

Existing Access

Coastal Gaslink Proposed Route

Crown Tenure

Non-Status Road

MOTI, Permitted and Forest Service Road

Hydrology (TRIM Data)

Hydrology (TRIM Data) NCD/NVD

1

Forest Cut Block / Opening

Mineral Claim / Lease

Visual Sensitivity Boundary

Wildlife Tree Retention

Wetlands

Range Tenure

PNG Grid Boundary

Caribou Range : None

Coal License : None

Community Forest : K1A B SCHEDULE B

Guide / Outfitter : 601012

Mineral Tenure : 1026315

Range Tenure : None

Trapper : TR0604T024

Tree Farm License : None

Ungulate Winter Ranges : None

Wildlife Habitat Areas : None

Wildlife Tree Retention Area : None

Wood Lot : None

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 Southwest OGC Zone.

-Distances shown are in metres and decimals thereof.

McELHANNEY

8808 - 72nd Street

Fort St. John, British Columbia

Phone:(250)787-0356, Fax:(250)787-0310

Job : 3111-21423

BCGS 93K . 013

EPASS# 10053173

REVISION

DESCRIPTION

0

Issued for Use, July 27, 2015

SCALE 1:7500

150

112.5

75

37.5

0

150

300

METRES

\*NOTE\*

POTENTIAL BORROW SITE 3617

Proposed 15.875 ha Investigative Area to contain approximately 7 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads = 0.630 ha

Temp. Trails = 1.359 ha

Total = 1.989 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE 3617

TEST PIT/ BOREHOLE PAD LOCATIONS

ID

NORTHING

EASTING

AREA

1

6001092.0

330969.6

0.090 ha

2

6001129.0

330829.0

0.090 ha

3

6001092.0

330686.0

0.090 ha

4

6000940.0

330719.3

0.090 ha

5

6000900.0

330995.0

0.090 ha

6

6000817.0

331097.0

0.090 ha

7

6000664.5

331037.6

0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS =

0.630 ha

Coastal GasLink Pipeline Project

TransCanada In business to deliver

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE 3617

WITHIN

UNITS 57 AND 58 BLOCK H, GROUP 93-K-4

RANGE 5 COAST DISTRICT

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-001

Page 1 of 20

July 27, 2015

9643055



Proposed 0.30 x 30 Test Pit/ Borehole Pad  
Investigative Area  
Existing Access  
Coastal Gaslink Proposed Route  
Crown Tenure  
Non-Status Road  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Hydrology (TRIM Data) NCD/NVD



- 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 Southwest OGC Zone.
- Distances shown are in metres and decimals thereof.

**McELHANNEY**  
8808 - 72nd Street  
Fort St. John, British Columbia  
Phone:(250)787-0356, Fax:(250)787-0310  
Job : 3111-21423

BCGS 93K . 012

EPASS# 10053173

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015



POTENTIAL BORROW SITE 3559

Proposed 25.866 ha Investigative Area to contain approximately 5 Test Pits/ Borehole Pads and temporary trails.

**New Cut areas required within Investigative Area :**

Test Pits/	
Borehole pads	= 0.450 ha
Temp. Trails	= 2.334 ha
Total	= 2.784 ha

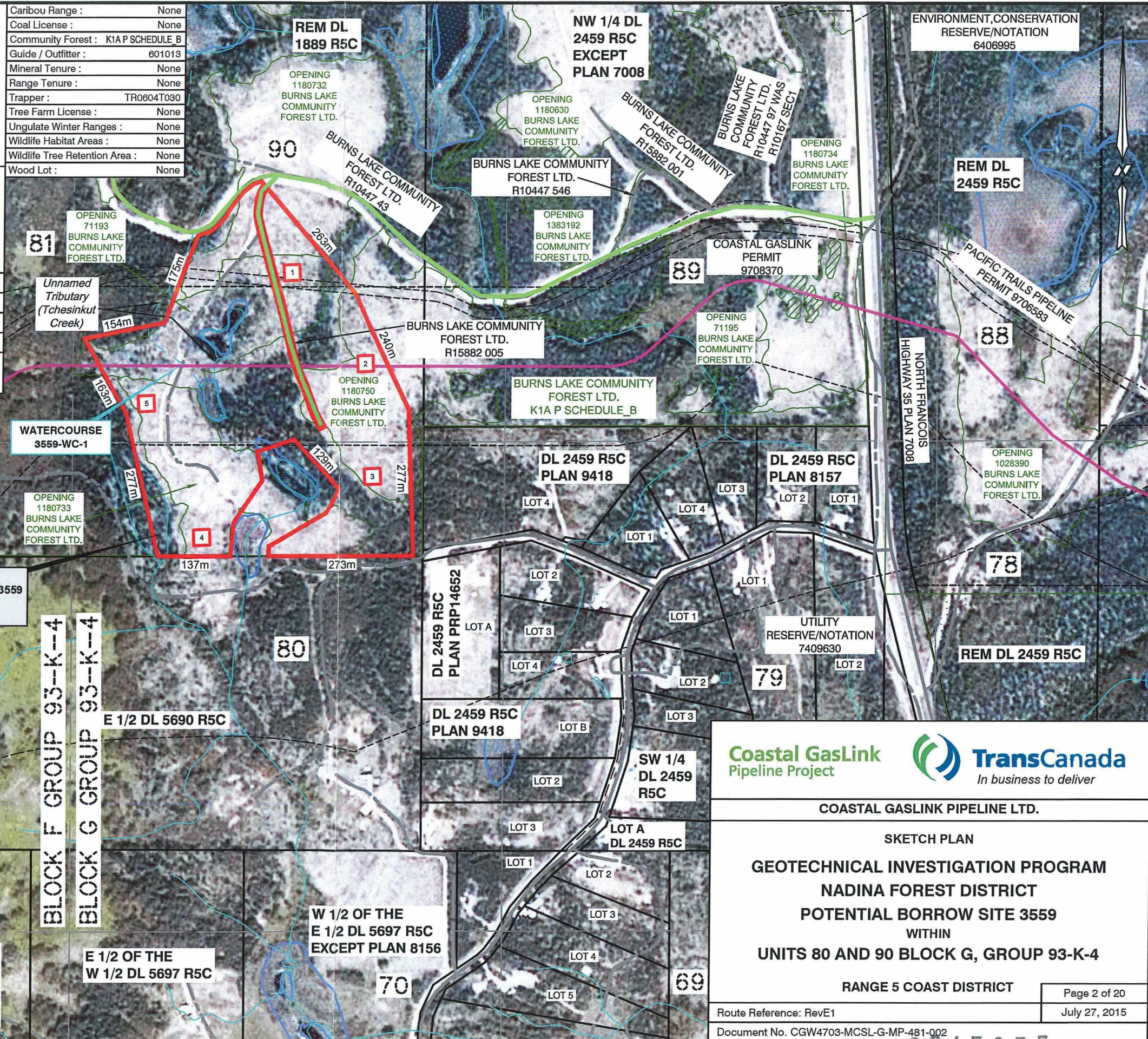
A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE 3559  
TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	6003996.0	320728.0	0.090 ha
2	6003818.0	320862.8	0.090 ha
3	6003604.0	320869.0	0.090 ha
4	6003501.5	320541.6	0.090 ha
5	6003759.4	320445.4	0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS =	0.450 ha
--------------------------------------	----------

Caribou Range :	None
Coal License :	None
Community Forest :	K1A P SCHEDULE B
Guide / Outfitter :	601013
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0604T030
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None



## Coastal GasLink Pipeline Project



COASTAL GASLINK PIPELINE LTD.

**SKETCH PLAN**

**GEOTECHNICAL INVESTIGATION PROGRAM**

**NADINA FOREST DISTRICT**

**POTENTIAL BORROW SITE 3559**

**WITHIN**

**UNITS 80 AND 90 BLOCK G, GROUP 93-K-4**

RANGE 5 COAST DISTRICT

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-002

Page 2 of 20

July 27, 2015

9643055



LEGEND:

Proposed 30 x 30 Test Pit/ Borehole Pad

Investigative Area

Existing Access

Coastal Gaslink Proposed Route

Crown Tenure

Non-Status Road

MOTI, Permitted and Forest Service Road

Hydrology (TRIM Data)

Hydrology (TRIM Data) NCD/NVD

1

Forest Cut Block / Opening

Range Tenure

Wildlife Tree Retention

Wetlands

PNG Grid Boundary

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 Southwest OGC Zone.

-Distances shown are in metres and decimals thereof.

McELHANNEY

8808 - 72nd Street

Fort St. John, British Columbia

Phone: (250) 787-0356, Fax: (250) 787-0310

Job : 3111-21423

BCGS 93K . 011

EPASS# 10053173

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015

SCALE 1:5000

100

75

50

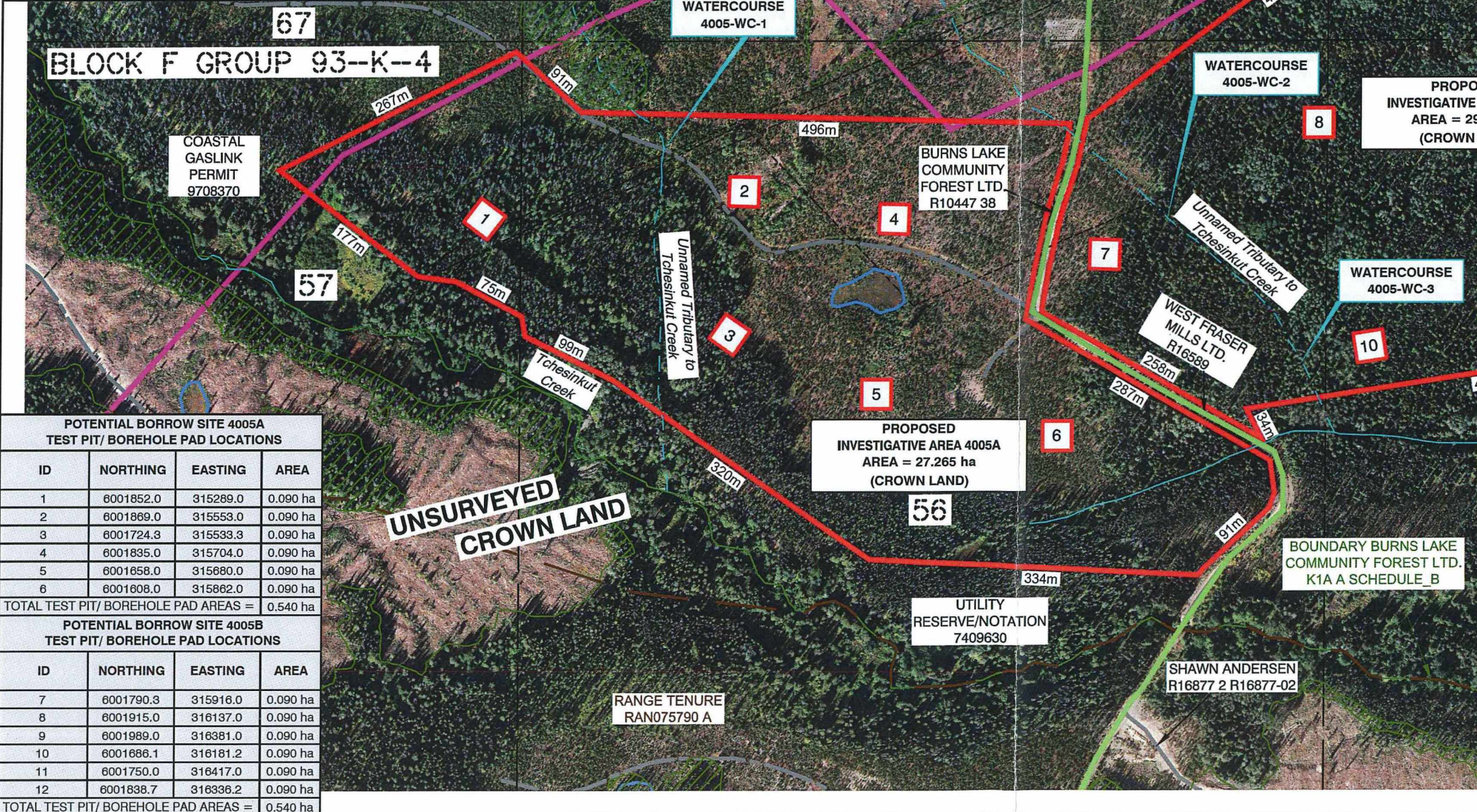
25

0

100

200

METRES



POTENTIAL BORROW SITE 4005A TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6001852.0	315289.0	0.090 ha
2	6001869.0	315553.0	0.090 ha
3	6001724.3	315533.3	0.090 ha
4	6001835.0	315704.0	0.090 ha
5	6001858.0	315680.0	0.090 ha
6	6001808.0	315862.0	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.540 ha			
POTENTIAL BORROW SITE 4005B TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
7	6001790.3	315916.0	0.090 ha
8	6001915.0	316137.0	0.090 ha
9	6001989.0	316381.0	0.090 ha
10	6001686.1	316181.2	0.090 ha
11	6001750.0	316417.0	0.090 ha
12	6001838.7	316336.2	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.540 ha			

\*NOTE\*

POTENTIAL BORROW SITE 4005A

Proposed 27.265 ha Investigative Area to contain approximately 6 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads = 0.540 ha

Temp. Trails = 1.491 ha

Total = 2.031 ha

A Post Construction Plan will be issued to show final locations and clearing.

\*NOTE\*

POTENTIAL BORROW SITE 4005B

Proposed 29.218 ha Investigative Area to contain approximately 6 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads = 0.540 ha

Temp. Trails = 4.360 ha

Total = 4.900 ha

A Post Construction Plan will be issued to show final locations and clearing.

Caribou Range :	None
Coal License :	None
Community Forest :	K1A A SCHEDULE B
Guide / Outfitter :	601013
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0604T030
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
4005-WC-1	6001915.0	315473.0
4005-WC-2	6001824.7	315981.4
4005-WC-3	6001673.1	316111.8

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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITES 4005A AND 4005B

WITHIN

UNITS 55, 56, 57, 65 AND 66

BLOCK F, GROUP 93-K-4

RANGE 5 COAST DISTRICT

Page 3 of 20

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-003

July 27, 2015

9643055



**LEGEND:**

Prop. 30 x 30 Test Pit/ Borehole Pad Investigative Area

Existing Access

Coastal Gaslink Proposed Route

Crown Tenure

Non-Status Road

MOTI, Permitted and Forest Service Road

Hydrology (TRIM Data)

Hydrology (TRIM Data) NCD/NVD

1

Forest Cut Block / Opening

Wildlife Tree Retention

Wetlands

PNG Grid Boundary

**NOTES :**

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-The proposed project is within the Southwest OGC Zone.

-Distances shown are in metres and decimals thereof.

**McELHANNEY**

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EPASS# 10053173

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015

SCALE 1:7500

150

112.5

75

37.5

0

150

300

METRES

**\*NOTE\***

**POTENTIAL BORROW SITE 3519A**

Proposed 18.971 ha Investigative Area to contain approximately 4 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads

= 0.360 ha

Temp. Trails

= 2.100 ha

Total

= 2.460 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE 3519A TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6001657.0	309567.0	0.090 ha
2	6001366.4	309489.6	0.090 ha
3	6001554.0	309740.1	0.090 ha
4	6001365.9	309723.6	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.360 ha
POTENTIAL BORROW SITE 3519B TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
5	6002031.0	310482.0	0.090 ha
6	6002128.1	310427.6	0.090 ha
7	6002211.0	310685.0	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.270 ha
POTENTIAL BORROW SITE 3519C TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
8	6001773.5	309753.4	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.090 ha

**\*NOTE\***

**POTENTIAL BORROW SITE 3519B**

Proposed 15.764 ha Investigative Area to contain approximately 3 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads

= 0.270 ha

Temp. Trails

= 1.750 ha

Total

= 2.020 ha

A Post Construction Plan will be issued to show final locations and clearing.

**\*NOTE\***

**POTENTIAL BORROW SITE 3519C**

Proposed 5.175 ha Investigative Area to contain approximately 1 Test Pit/ Borehole Pad and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads

= 0.090 ha

Temp. Trails

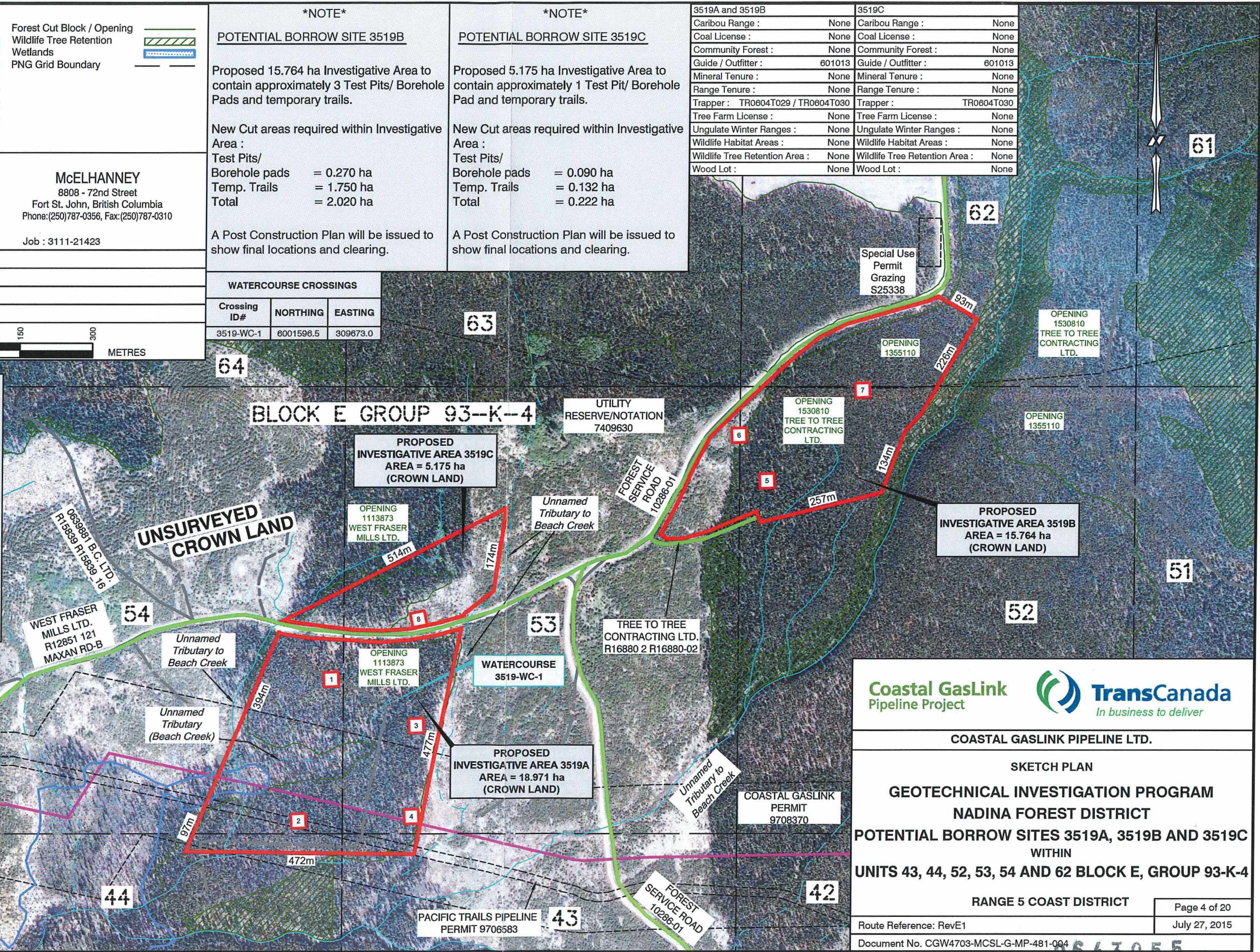
= 0.132 ha

Total

= 0.222 ha

A Post Construction Plan will be issued to show final locations and clearing.

3519A and 3519B	3519C
Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601013
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0604T029 / TR0604T030
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None



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GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITES 3519A, 3519B AND 3519C

WITHIN

UNITS 43, 44, 52, 53, 54 AND 62 BLOCK E, GROUP 93-K-4

RANGE 5 COAST DISTRICT

Page 4 of 20

Route Reference: RevE1

July 27, 2015

Document No. CGW4703-MCSL-G-MP-481-004



LEGEND :

Proposed 30 x 30 Test Pit/ Borehole Pad Investigative Area

Existing Access

Coastal Gaslink Proposed Route

MOTI, Permitted and Forest Service Road

Non-Status Road

Hydrology (TRIM Data)

Hydrology (TRIM Data) NCD/NVD

1

PNG Grid Boundary

NOTES :

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McELHANNEY

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BCGS 93K . 011

EPASS# 10053173

REVISION

DESCRIPTION

0

Issued for Use, July 27, 2015

SCALE 1:2500

50

37.5

25

12.5

0

50

100

METRES

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601013
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0604T029
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

\*NOTE\*

POTENTIAL BORROW SITE PBS 52

Proposed 0.950 ha Investigative Area to contain approximately 2 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads

= 0.180 ha

Temp. Trails

= 0.282 ha

Total

= 0.462 ha

A Post Construction Plan will be issued to show final locations and clearing.

PROPOSED INVESTIGATIVE AREA PBS 52  
AREA = 0.950 ha (CROWN LAND)

COASTAL GASLINK PERMIT 9708370

Unnamed Tributary to Beach Creek

PACIFIC TRAILS PIPELINE PERMIT 9706583

FOREST SERVICE ROAD 10286-01

FOREST SERVICE ROAD 10286-03

UTILITY RESERVE/NOTATION 7409630

BLOCK E GROUP 93--K--4

POTENTIAL BORROW SITE PBS 52  
TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	6000998.2	310588.7	0.090 ha
2	6001029.4	310633.1	0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.180 ha

Coastal GasLink Pipeline Project

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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE PBS 52

WITHIN

UNIT 42 BLOCK E, GROUP 93-K-4

RANGE 5 COAST DISTRICT

Page 5 of 20

Route Reference: RevE1

July 27, 2015

Document No. CGW4703-MCSL-G-MP-481-005

9843055



**LEGEND:**

P. 30 X 30 Test Pit/ Borehole Pad		Temp. 5.0 Trail
Regenerative Area		20m Trail Buffer
Coastal Gaslink Proposed Route		PNG Grid Boundary
Crown Tenure		
Non-Status Road		
Hydrology (TRIM Data)		
Hydrology (TRIM Data) NCD/NVD		
Old Growth Management Area		
Wetlands		

**NOTES :**

**MICELHANNEY**  
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Job #: 3111-21423

BCGS 93L. 020

EPASS# 10053173

REVISION	DESCRIPTION
1	Issued for Use, Oct. 5, 2015

SCALE 1:5000



**WATERCOURSE**  
**2151-WC-4**

5.0 X 2493 TEMP TRAIL  
SEGMENT 1

**PACIFIC TRAILS PIPELINE  
PERMIT 9706583**

NON-STATUS ROAD

End of Non-Status Road

Non-Status Road

**20m TRAIL BUFFER  
AREA = 4.983 ha**

**\*NOTE\***

**POTENTIAL BORROW SITE 2151**

Proposed 72.420 ha Investigative Area to contain approximately 14 Test Pits/Borehole Pads and temporary trails.

Area :  
 Test Pits/  
 Borehole pads  
 Temp. Trails  
 Total  
 = 1,260 ha  
 = 12,720 ha  
 = 13,980 ha

A Post Construction Plan will be issued to show final locations and clearing.

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601-0113
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR06041032 / TR06091001
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

**PROPOSED  
INVESTIGATIVE AREA 215  
AREA = 72.420 ha  
(CROWN LAND)**

WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
2151-WC-1	6002863.3	693775.4
2151-WC-2	6002399.1	693566.4
2151-WC-3	6002064.0	693557.1
2151-WC-4	6001635.1	693642.4

POTENTIAL BORROW SITE 2151			
TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6001454.0	694058.4	0.090 ha
2	6001472.0	694319.0	0.090 ha
3	6001365.9	694367.0	0.090 ha
4	6001566.0	695091.0	0.090 ha
5	6001603.0	695407.0	0.090 ha
6	6001479.0	695168.0	0.090 ha
7	6001328.0	694812.0	0.090 ha
8	6001671.0	694977.0	0.090 ha

ID	NORTHING	EASTING	AREA
9	6001716.0	694492.0	0.090 ha
10	6001552.0	694804.0	0.090 ha
11	6001921.3	694853.0	0.090 ha
12	6002055.1	695200.6	0.090 ha
13	6001737.1	695200.8	0.090 ha
14	6001715.1	695438.1	0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS = 1.260 ha

Segment No.	Begin		End		Segment Length (Km)
	Northing	Easting	Northing	Easting	
1	6003452	693780	6001456	694014	2.493

## Coastal Gaslink Pipeline Project



COASTAL GASLINK PIPELINE LTD.

## SKETCH PLAN

# GEOTECHNICAL INVESTIGATION PROGRAM

## NADINA FOREST DISTRICT

## POTENTIAL BORROW SITE 2151

**WITHIN**

**UNITS 41, 42, 43, 51, 52, 53, 63 AND 73**

## H, GROUP 93-L-1

## RANGE 5 COAST DISTRICT

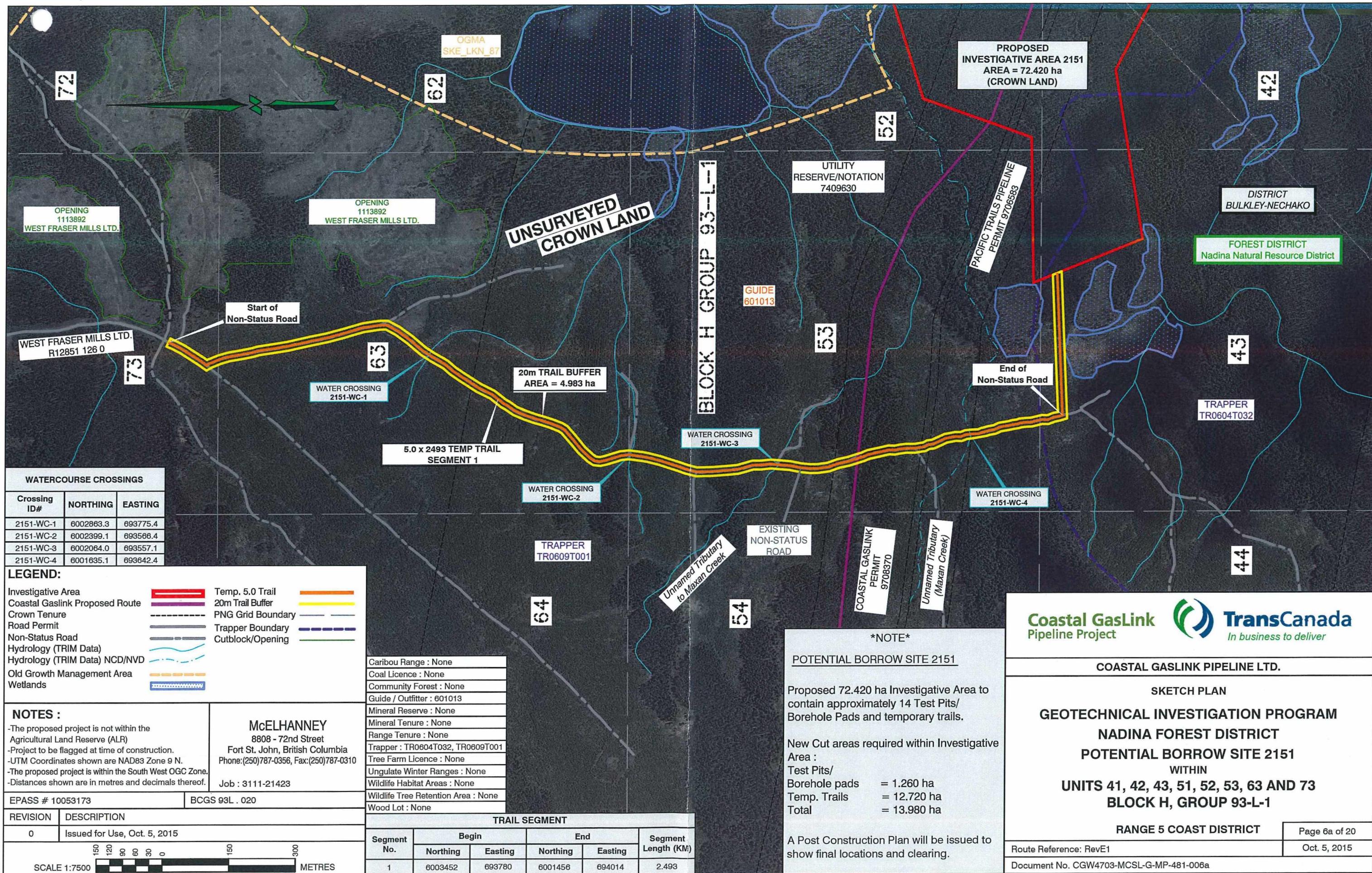
WE1

Oct. 5, 2015

Route Reference: REVE1

Document No. CGW4703-MCSL-G-MP-481-006





WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
2151-WC-1	6002863.3	693775.4
2151-WC-2	6002399.1	693566.4
2151-WC-3	6002064.0	693557.1
2151-WC-4	6001635.1	693642.4

LEGEND:

Investigative Area

Coastal Gaslink Proposed Route

Crown Tenure

Road Permit

Non-Status Road

Hydrology (TRIM Data)

Hydrology (TRIM Data) NCD/NVD

Old Growth Management Area

Wetlands

Temp. 5.0 Trail

20m Trail Buffer

PNG Grid Boundary

Trapper Boundary

Cutblock/Opening

NOTES :

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

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-UTM Coordinates shown are NAD83 Zone 9 N.

-The proposed project is within the South West OGC Zone.

-Distances shown are in metres and decimals thereof.

McELHANNEY

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EPASS # 10053173

BCGS 93L . 020

REVISION

DESCRIPTION

0

Issued for Use, Oct. 5, 2015

SCALE 1:7500

150 100 80 60 40 20 0 150 300

METRES

Caribou Range : None					
Coal Licence : None					
Community Forest : None					
Guide / Outfitter : 601013					
Mineral Reserve : None					
Mineral Tenure : None					
Range Tenure : None					
Trapper : TR0604T032, TR0609T001					
Tree Farm Licence : None					
Ungulate Winter Ranges : None					
Wildlife Habitat Areas : None					
Wildlife Tree Retention Area : None					
Wood Lot : None					
TRAIL SEGMENT					
Segment No.	Begin		End		Segment Length (KM)
	Northing	Easting	Northing	Easting	
1	6003452	693780	6001456	694014	2.493

\*NOTE\*

POTENTIAL BORROW SITE 2151

Proposed 72.420 ha Investigative Area to contain approximately 14 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads = 1.260 ha

Temp. Trails = 12.720 ha

Total = 13.980 ha

A Post Construction Plan will be issued to show final locations and clearing.

Coastal GasLink Pipeline Project

TransCanada In business to deliver

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE 2151

WITHIN

UNITS 41, 42, 43, 51, 52, 53, 63 AND 73

BLOCK H, GROUP 93-L-1

RANGE 5 COAST DISTRICT

Page 6a of 20

Route Reference: RevE1

Oct. 5, 2015

Document No. CGW4703-MCSL-G-MP-481-006a



**LEGEND:**

Prop. 30 x 30 Test Pit/ Borehole Pad  
Investigative Area  
Existing Access  
Crown Tenure  
Non-Status Road  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Hydrology (TRIM Data) NCD/NVD

1  
Forest Cut Block / Opening  
Mineral Claim / Lease  
Wildlife Tree Retention  
Wetlands  
PNG Grid Boundary

Caribou Range :	None	POTENTIAL BORROW SITE PBS 28			
Coal License :	None	TEST PIT/ BOREHOLE PAD LOCATIONS			
Community Forest :	None	ID	NORTHING	EASTING	AREA
Guide / Outfitter :	601072				
Mineral Tenure :	530083	1	6002861.4	678486.9	0.090 ha
Range Tenure :	None	2	6002888.8	678573.2	0.090 ha
Trapper :	TR0609T064	3	6002790.0	678619.0	0.090 ha
Tree Farm License :	None	4	6002776.1	678552.2	0.090 ha
Ungulate Winter Ranges :	None	TOTAL TEST PIT/ BOREHOLE PAD AREAS =			
Wildlife Habitat Areas :	None	0.360 ha			
Wildlife Tree Retention Area :	None				
Wood Lot :	None				

**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 9 N.  
-The proposed project is within the Southwest OGC Zone.  
-Distances shown are in metres and decimals thereof.

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BCGS 93L . 019	
EPASS# 10053173	

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015



**\*NOTE\***

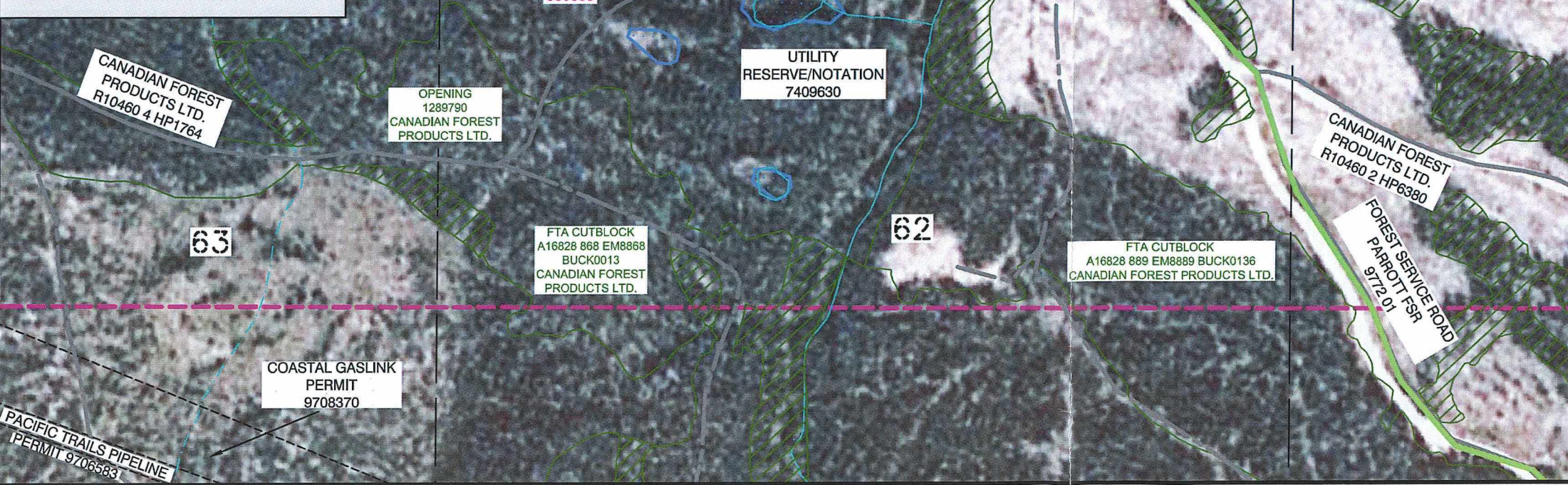
**POTENTIAL BORROW SITE PBS 28**

Proposed 4.093 ha Investigative Area to contain approximately 4 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads = 0.360 ha  
Temp. Trails = 0.513 ha  
Total = 0.873 ha

A Post Construction Plan will be issued to show final locations and clearing.



**Coastal GasLink Pipeline Project**

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**COASTAL GASLINK PIPELINE LTD.**

**SKETCH PLAN**

**GEOTECHNICAL INVESTIGATION PROGRAM**  
**NADINA FOREST DISTRICT**  
**POTENTIAL BORROW SITE PBS 28**  
**WITHIN**  
**UNITS 62 AND 72 BLOCK F, GROUP 93-L-1**

**RANGE 5 COAST DISTRICT**

Page 7 of 20  
Route Reference: RevE1  
July 27, 2015  
Document No. CGW4703-MCSL-G-MP-481-007

9643055



LEGEND:

Proposed 30 x 30 Test Pit/ Borehole Pad Investigative Area

Existing Access

MOTI, Permitted and Forest Service Road

Hydrology (TRIM Data)

1

Forest Cut Block / Opening

Mineral Claim / Lease

Visual Sensitivity Boundary

Wetlands

PNG Grid Boundary

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 9 N.

-The proposed project is within the Southwest OGC Zone.

-Distances shown are in metres and decimals thereof.

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Job : 3111-21423

BCGS 93L . 019

EPASS# 10053173

REVISION

DESCRIPTION

0

Issued for Use, July 27, 2015

SCALE 1:1250

25

22.5

12.5

6.25

0

25

50

METRES

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601072
Mineral Tenure :	518057 / 530083
Range Tenure :	None
Trapper :	TR0609T064
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

POTENTIAL BORROW SITE PBS 25 TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6003470.5	676460.3	0.090 ha
2	6003551.5	676407.3	0.090 ha
3	6003670.4	676187.1	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			
0.270 ha			

\*NOTE\*

POTENTIAL BORROW SITE PBS 25

Proposed 3.325 ha Investigative Area to contain approximately 3 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads

= 0.270 ha

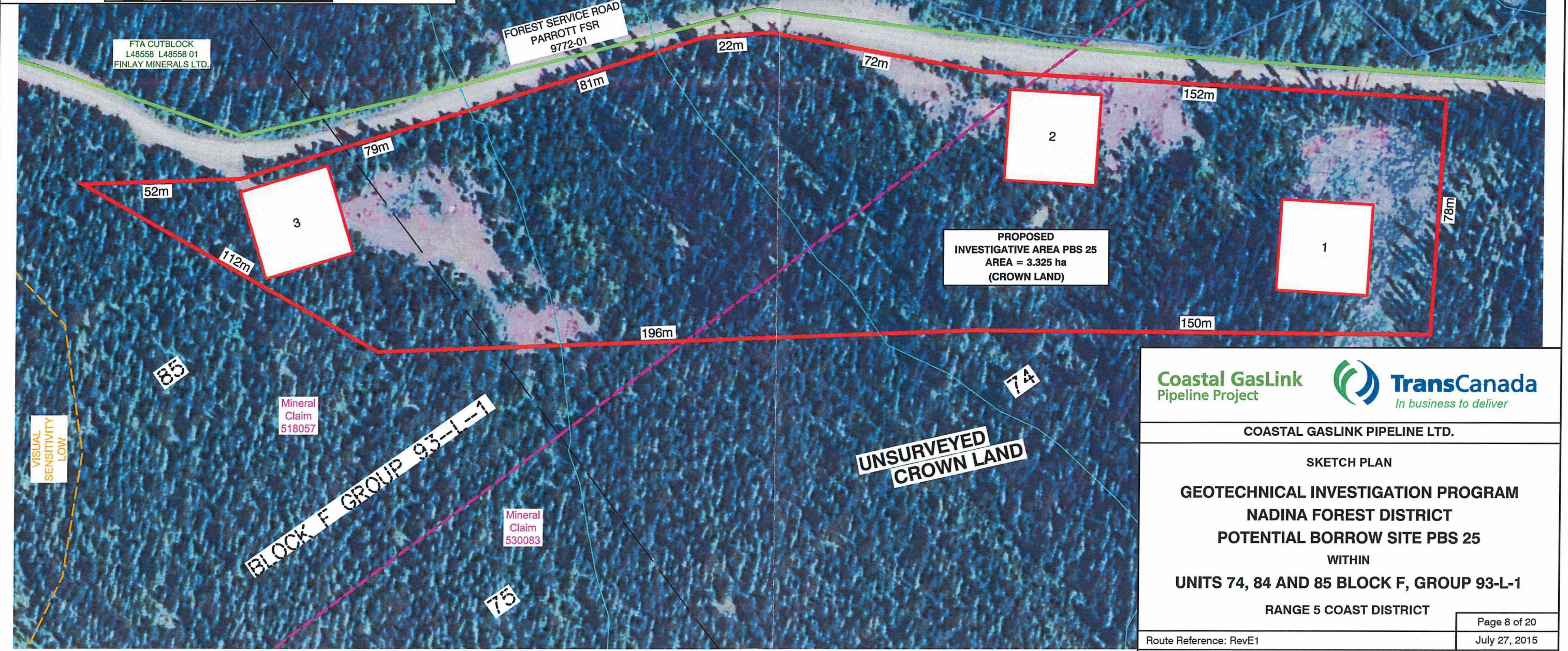
Temp. Trails

= 0.120 ha

Total

= 0.390 ha

A Post Construction Plan will be issued to show final locations and clearing.



Coastal GasLink Pipeline Project

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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE PBS 25

WITHIN

UNITS 74, 84 AND 85 BLOCK F, GROUP 93-L-1

RANGE 5 COAST DISTRICT

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-008

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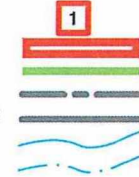
July 27, 2015

9643055

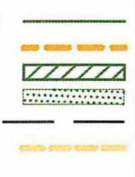


# LEGEND :

Proposed 30 x 30 Test Pit/ Borehole Pad  
Investigative Area  
Existing Access  
Non-Status Road  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Hydrology (TRIM Data) NCD/NVD



Forest Cut Block / Opening  
Visual Sensitivity Boundary  
Wildlife Tree Retention  
Woodlots  
PNG Grid Boundary  
Old Growth Management Area



Caribou Range : None  
Coal License : None  
Community Forest : None  
Guide / Outfitter : 601072  
Mineral Tenure : None  
Range Tenure : None  
Trapper : TR0609T064  
Tree Farm License : None  
Ungulate Winter Ranges : None  
Wildlife Habitat Areas : None  
Wildlife Tree Retention Area : None  
Wood Lot : None

## POTENTIAL BORROW SITE PBS 23 TEST PIT/ BOREHOLE PAD LOCATION

ID	NORTHING	EASTING	
1	6005213.5	672808.3	0
2	6005199.4	672889.2	0
3	6005178.8	672839.6	0
TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0			

## 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 9 N.  
-The proposed project is within the Southwest OGC Zone.  
-Distances shown are in metres and decimals thereof.

**McELHANNEY**  
8808 - 72nd Street  
Fort St. John, British Columbia  
Phone:(250)787-0356, Fax:(250)787-0310  
Job : 3111-21423

BCGS 93L . 019

EPASS# 10053173

REVISION DESCRIPTION

0 Issued for Use, July 27, 2015

SCALE 1:2000 0 10 20 30 40 50 60 70 80 METRES

OPENING  
1068464  
CANADIAN FOREST PRODUCTS LTD.

BLOCK K GROUP 93--L--1

BLOCK F GROUP 93--L--1

FOREST SERVICE ROAD  
PARROTT FSR  
9772-01

PROPOSED  
INVESTIGATIVE AREA PBS 23  
AREA = 1.465 ha  
(CROWN LAND)

UTILITY  
RESERVE/NOTATION  
7409630

PACIFIC TRAILS PIPELINE  
PERMIT 9706583

VISUAL  
SENSITIVITY  
HIGH

UNSUP  
CRO

Coastal Gas  
Pipeline Project

OPENING  
1207470

COASTAL GASLINK  
PERMIT  
9708370

GEOTECH  
N  
POTI

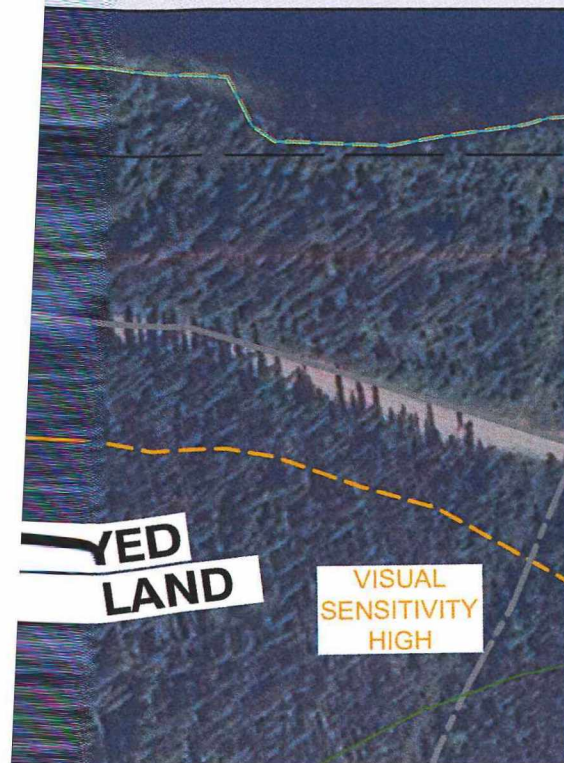
UNITS 9

Route Reference: Rev

Document No. CGW4



- Proposed
- Containment area
- Borehole Pad
- Clear Cut areas required
- Area:
- Best Pits/
- Borehole pads = 0.27 ha
- Temp. Trails = 0.243 ha
- Total = 0.513 ha
- Post Construction Plan will be issued
- Show final locations and clearing.



TRANS CANADA GASLINK PIPELINE LTD.

SKETCH PLAN

ENVIRONMENTAL INVESTIGATION PROGRAM  
 IN THE VIA FOREST DISTRICT  
 AT BORROW SITE PBS 23  
 WITHIN  
 BLOCK 99, GROUP 93-L-1  
 IN THE RANGE 5 COAST DISTRICT

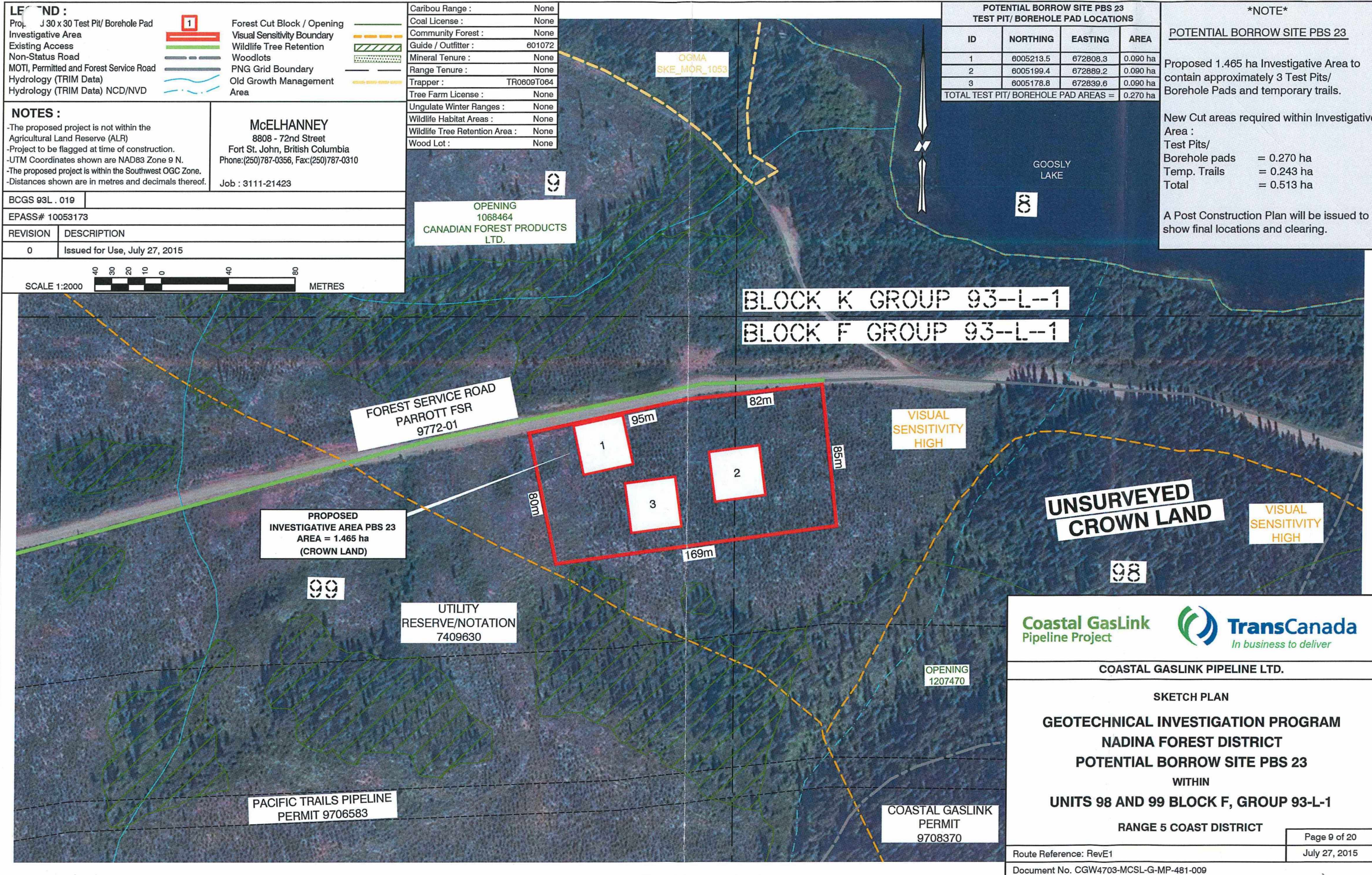
Page 9 of 20

July 27, 2015

SL-G-MP-481-009

9643055







**LEGEND :**

Proposed 30 x 30 Test Pit/ Borehole Pad  
Investigative Area  
Existing Access  
Coastal Gaslink Proposed Route  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Hydrology (TRIM Data) NCD/NVD

**1**

Forest Cut Block / Opening  
Wildlife Tree Retention  
Wetlands  
PNG Grid Boundary  
Range Tenure

**NOTES :**

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- The proposed project is within the Southwest OGC Zone.
- Distances shown are in metres and decimals thereof.

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Job : 3111-21423

BCGS 93L . 018

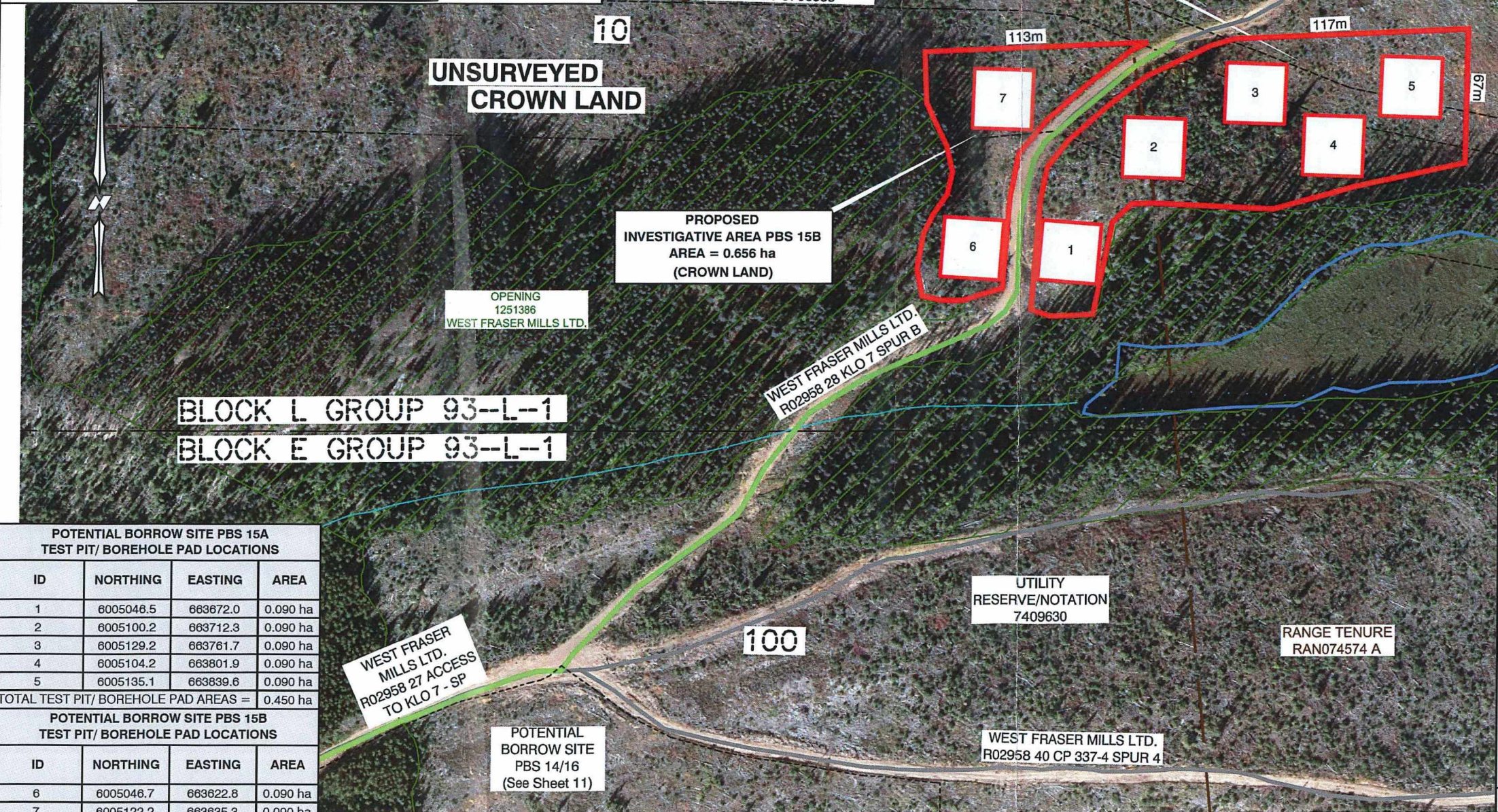
EPASS# 10053173

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015

SCALE 1:2500

50 37.5 25 12.5 0 50 100 METRES

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601072
Mineral Tenure :	None
Range Tenure :	RAN074574
Trapper :	TR0609T064
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None



**\*NOTE\***

**POTENTIAL BORROW SITE PBS 15A**

Proposed 1.651 ha Investigative Area to contain approximately 5 Test Pits/ Borehole Pads and temporary access.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads	= 0.450 ha
Temp. Access	= 0.273 ha
Total	= 0.723 ha

A Post Construction Plan will be issued to show final locations and clearing.

**\*NOTE\***

**POTENTIAL BORROW SITE PBS 15B**

Proposed 0.656 ha Investigative Area to contain approximately 2 Test Pits/ Borehole Pads and temporary access.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads	= 0.180 ha
Temp. Access	= 0.270 ha
Total	= 0.450 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE PBS 15A TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6005046.5	663672.0	0.090 ha
2	6005100.2	663712.3	0.090 ha
3	6005129.2	663761.7	0.090 ha
4	6005104.2	663801.9	0.090 ha
5	6005135.1	663839.6	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.450 ha
POTENTIAL BORROW SITE PBS 15B TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
6	6005046.7	663622.8	0.090 ha
7	6005122.2	663635.3	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.180 ha

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

**GEOTECHNICAL INVESTIGATION PROGRAM**

**NADINA FOREST DISTRICT**

**POTENTIAL BORROW SITES PBS 15A AND PBS 15B**

**WITHIN**

**UNIT 10 BLOCK L, GROUP 93-L-1**

**RANGE 5 COAST DISTRICT**

Route Reference: RevE1	Page 10 of 20
Document No. CGW4703-MCSL-G-MP-481-010	July 27, 2015

9643055



**LEGEND :**  
Proposed 30 x 30 Test Pit/ Borehole Pad Investigative Area  
Existing Access  
Non-Status Road  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Forest Cut Block / Opening  
Wildlife Tree Retention  
Wetlands  
PNG Grid Boundary

1

Range Tenure

Trapper Boundary

Guide Outfitter

**NOTES :**  
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Job : 3111-21423

BCGS 93L . 018

EPASS# 10053173

REVISION

DESCRIPTION

0

Issued for Use, July 27, 2015

SCALE 1:2500

50

37.5

25

12.5

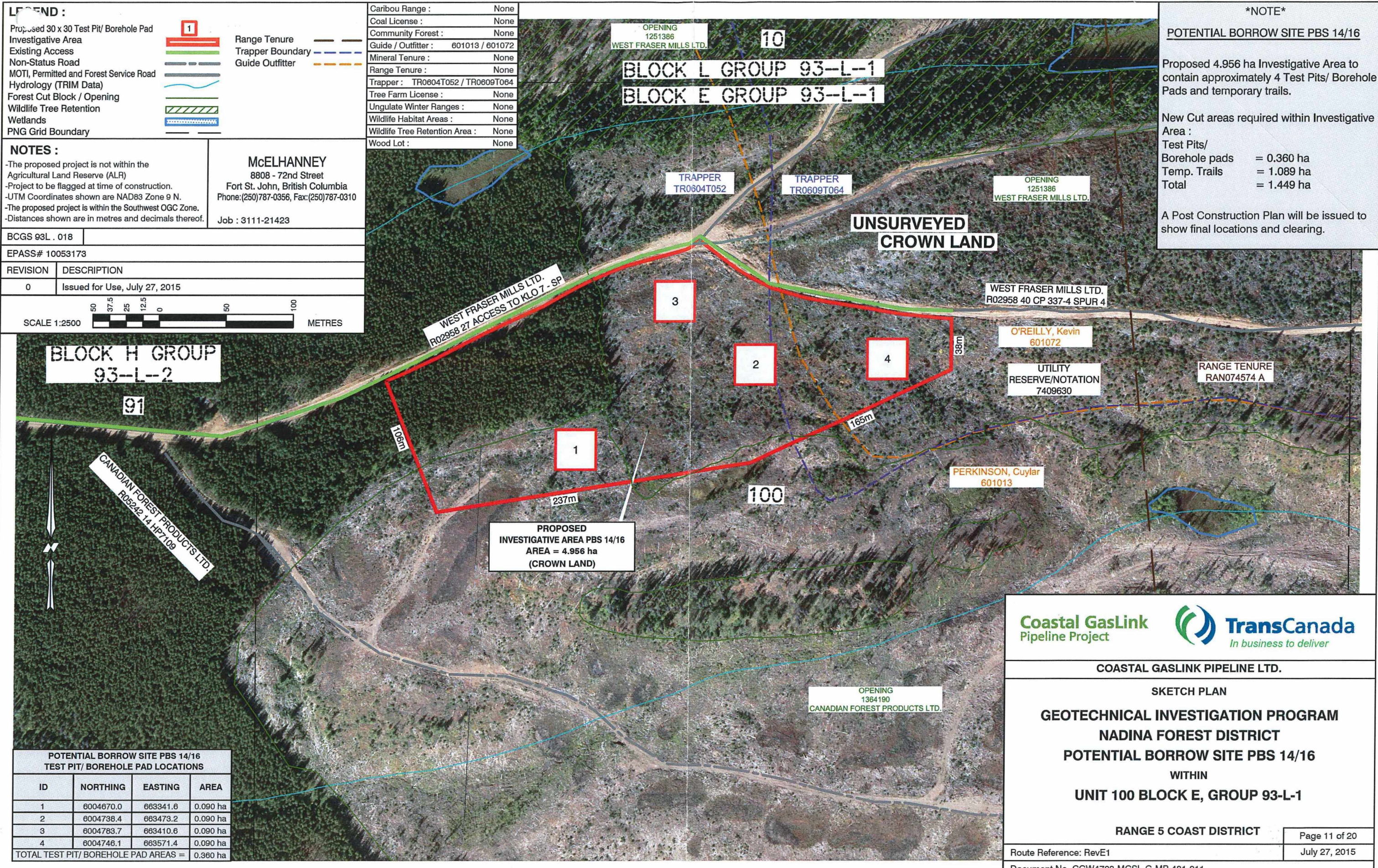
0

50

100

METRES

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601013 / 601072
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0604T052 / TR0609T064
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None



**\*NOTE\***

**POTENTIAL BORROW SITE PBS 14/16**

Proposed 4.956 ha Investigative Area to contain approximately 4 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads	= 0.360 ha
Temp. Trails	= 1.089 ha
<b>Total</b>	<b>= 1.449 ha</b>

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE PBS 14/16 TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6004670.0	663341.6	0.090 ha
2	6004738.4	663473.2	0.090 ha
3	6004783.7	663410.6	0.090 ha
4	6004746.1	663571.4	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.360 ha

**Coastal GasLink**  
Pipeline Project

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SKETCH PLAN

**GEOTECHNICAL INVESTIGATION PROGRAM**  
**NADINA FOREST DISTRICT**  
**POTENTIAL BORROW SITE PBS 14/16**  
WITHIN  
**UNIT 100 BLOCK E, GROUP 93-L-1**

RANGE 5 COAST DISTRICT

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Route Reference: RevE1

July 27, 2015

Document No. CGW4703-MCSL-G-MP-481-011

9643055



**LEGEND:**

Prop. 30 x 30 Test Pit/ Borehole Pad

Investigative Area

Existing Access

Coastal Gaslink Proposed Route

Crown Tenure

Non-Status Road

MOTI, Permitted and Forest Service Road

Hydrology (TRIM Data)

Hydrology (TRIM Data) NCD/NVD

1

Forest Cut Block / Opening

Wildlife Tree Retention

Wetlands

Temp. 5.0 Trail

20m Trail Buffer

PNG Grid Boundary

Trapper Boundary

Guide Outfitter

**NOTES :**

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Job : 3111-21423

BCGS 093L . 018

EPASS# 10053173

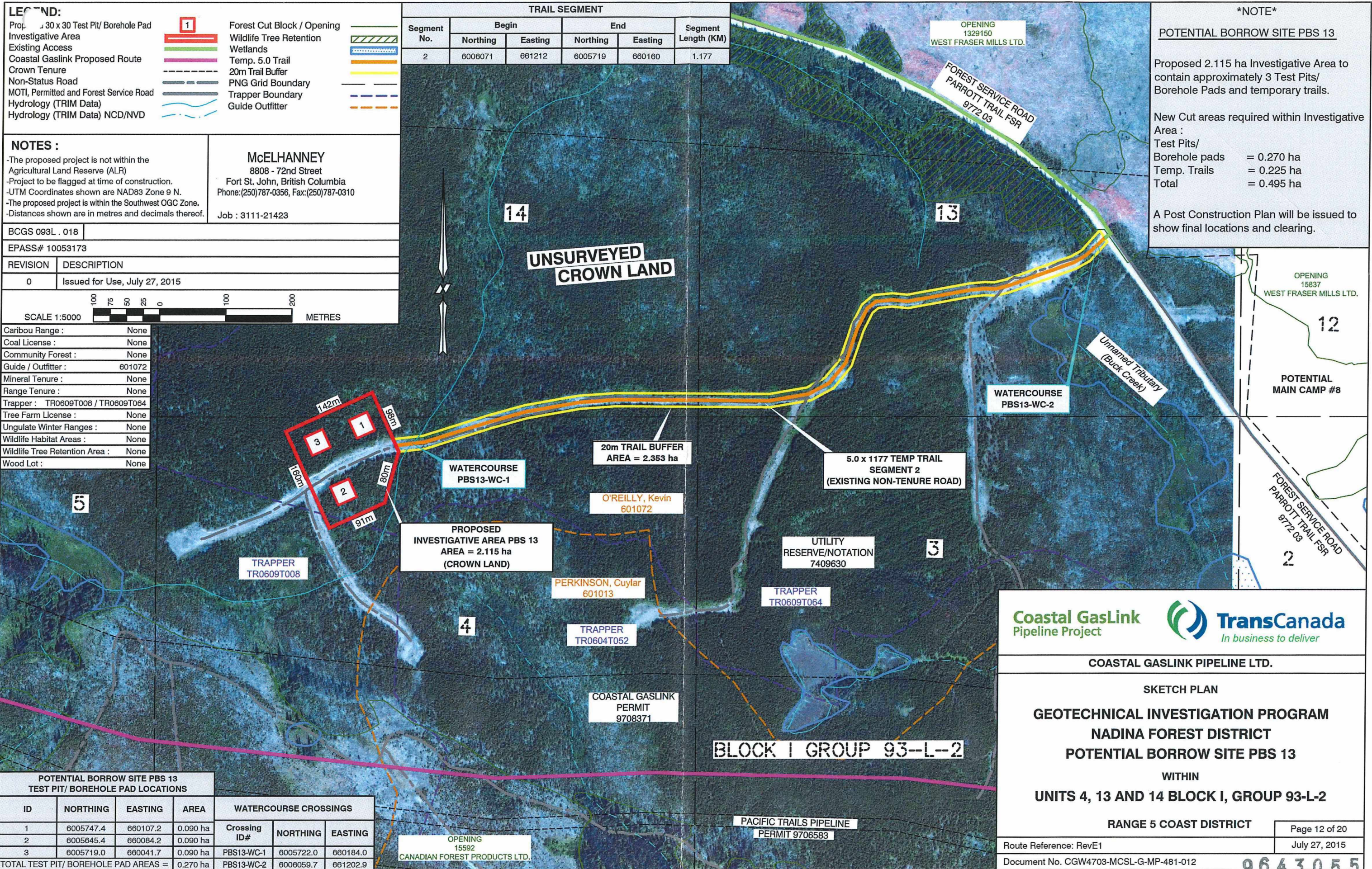
REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015

SCALE 1:5000

100 75 50 25 0 100 200 METRES

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601072
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0609T008 / TR0609T084
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

TRAIL SEGMENT					
Segment No.	Begin		End		Segment Length (KM)
	Northing	Easting	Northing	Easting	
2	6006071	661212	6005719	660160	1.177



**\*NOTE\***

**POTENTIAL BORROW SITE PBS 13**

Proposed 2.115 ha Investigative Area to contain approximately 3 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Borehole pads	= 0.270 ha
Temp. Trails	= 0.225 ha
Total	= 0.495 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE PBS 13 TEST PIT/ BOREHOLE PAD LOCATIONS				WATERCOURSE CROSSINGS		
ID	NORTHING	EASTING	AREA	Crossing ID#	NORTHING	EASTING
1	6005747.4	660107.2	0.090 ha	PBS13-WC-1	6005722.0	660184.0
2	6005845.4	660084.2	0.090 ha			
3	6005719.0	660041.7	0.090 ha			
TOTAL TEST PIT/ BOREHOLE PAD AREAS =				PBS13-WC-2	6006059.7	661202.9

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SKETCH PLAN

**GEOTECHNICAL INVESTIGATION PROGRAM**

**NADINA FOREST DISTRICT**

**POTENTIAL BORROW SITE PBS 13**

WITHIN

**UNITS 4, 13 AND 14 BLOCK I, GROUP 93-L-2**

**RANGE 5 COAST DISTRICT**

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-012

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July 27, 2015

9643055



<b>LEGEND :</b>	
Proposed 30 x 30 Test Pit/ Borehole Pad	1
Investigative Area	
Existing Access	
Coastal Gaslink Proposed Route	
Crown Tenure	
Non-Status Road	
MOTI, Permitted and Forest Service Road	
Forest Cut Block / Opening	
Visual Sensitivity Boundary	
Wetlands	
Temp. 5.0 Trail	
20m Trail Buffer	
Hydrology (TRIM Data)	
PNG Grid Boundary	
Ungulate Winter Range	

<b>NOTES :</b>	
-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 9 N.	
-The proposed project is within the Southwest OGC Zone.	
-Distances shown are in metres and decimals thereof.	
<div> <div>McELHANNEY</div> <div>8808 - 72nd Street</div> <div>Fort St. John, British Columbia</div> <div>Phone:(250)787-0356, Fax:(250)787-0310</div> <div>Job : 3111-21423</div> </div>	

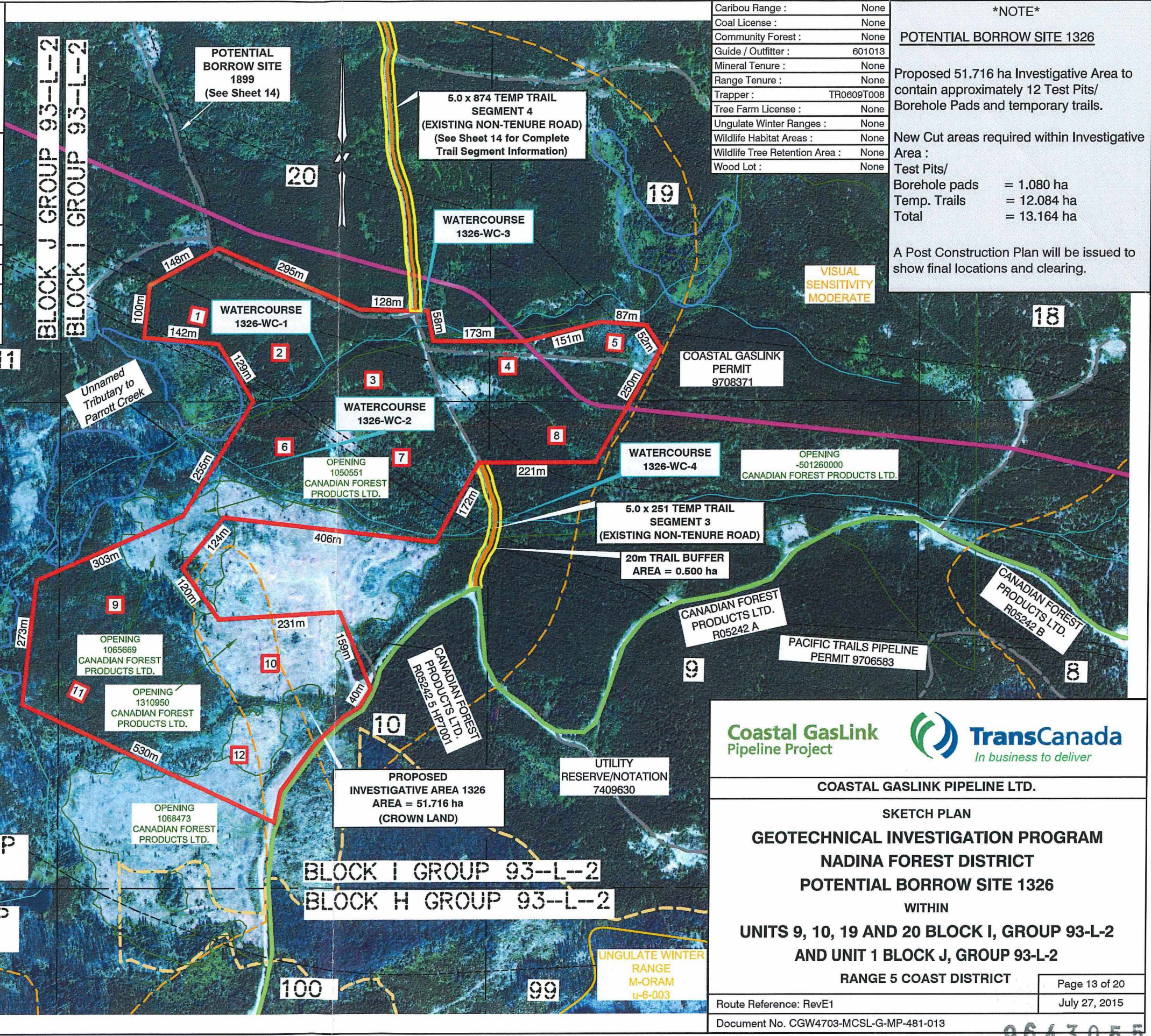
BCGS 93L . 017	
EPASS# 10053173	
REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015
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SCALE 1:7500	

TRAIL SEGMENT					
Segment No.	Begin		End		Segment Length (KM)
	Northing	Easting	Northing	Easting	
3	6005253	655708	6005492	655708	0.251

WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
1326-WC-1	6005664.0	655406.6
1326-WC-2	6005463.9	655260.1
1326-WC-3	6005747.7	655580.4
1326-WC-4	6005377.9	655739.5

POTENTIAL BORROW SITE 1326			
TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6005753.8	655158.3	0.090 ha
2	6005689.0	655317.0	0.090 ha
3	6005643.1	655497.6	0.090 ha
4	6005677.0	655751.0	0.090 ha
5	6005728.0	655953.0	0.090 ha
6	6005510.2	655332.7	0.090 ha
7	6005497.0	655556.0	0.090 ha
8	6005548.0	655849.0	0.090 ha
9	6005199.0	655023.0	0.090 ha
10	6005097.0	655323.0	0.090 ha
11	6005031.0	654960.0	0.090 ha
12	6004921.0	655271.0	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			1.080 ha

POTENTIAL BORROW SITE 1326			
TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6005753.8	655158.3	0.090 ha
2	6005689.0	655317.0	0.090 ha
3	6005643.1	655497.6	0.090 ha
4	6005677.0	655751.0	0.090 ha
5	6005728.0	655953.0	0.090 ha
6	6005510.2	655332.7	0.090 ha
7	6005497.0	655556.0	0.090 ha
8	6005548.0	655849.0	0.090 ha
9	6005199.0	655023.0	0.090 ha
10	6005097.0	655323.0	0.090 ha
11	6005031.0	654960.0	0.090 ha
12	6004921.0	655271.0	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			1.080 ha



Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601013
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0609T008
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

<b>*NOTE*</b>	
<b>POTENTIAL BORROW SITE 1326</b>	
Proposed 51.716 ha Investigative Area to contain approximately 12 Test Pits/ Borehole Pads and temporary trails.	
New Cut areas required within Investigative Area :	
Test Pits/ Borehole pads	= 1.080 ha
Temp. Trails	= 12.084 ha
Total	= 13.164 ha
A Post Construction Plan will be issued to show final locations and clearing.	

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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE 1326

WITHIN

UNITS 9, 10, 19 AND 20 BLOCK I, GROUP 93-L-2

AND UNIT 1 BLOCK J, GROUP 93-L-2

RANGE 5 COAST DISTRICT

Page 13 of 20

Route Reference: RevE1

July 27, 2015

Document No. CGW4703-MCSL-G-MP-481-013

9643055



Proposed 30 x 30 Test Pit/ Borehole Pad  
Investigative Area  
Existing Access  
Coastal Gaslink Proposed Route  
Crown Tenure  
Non-Status Road  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data) NCD/NVD

- 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 9 N.
- The proposed project is within the Southwest OGC Zone.
- Distances shown are in metres and decimals thereof.

Forest Cut Block / Opening  
Mineral Claim / Lease  
Visual Sensitivity Boundary  
Wetlands  
Temp. 5.0 Trail  
20m Trail Buffer  
Hydrology (TRIM Data)  
PNG Grid Boundary  
Wildlife Habitat Area

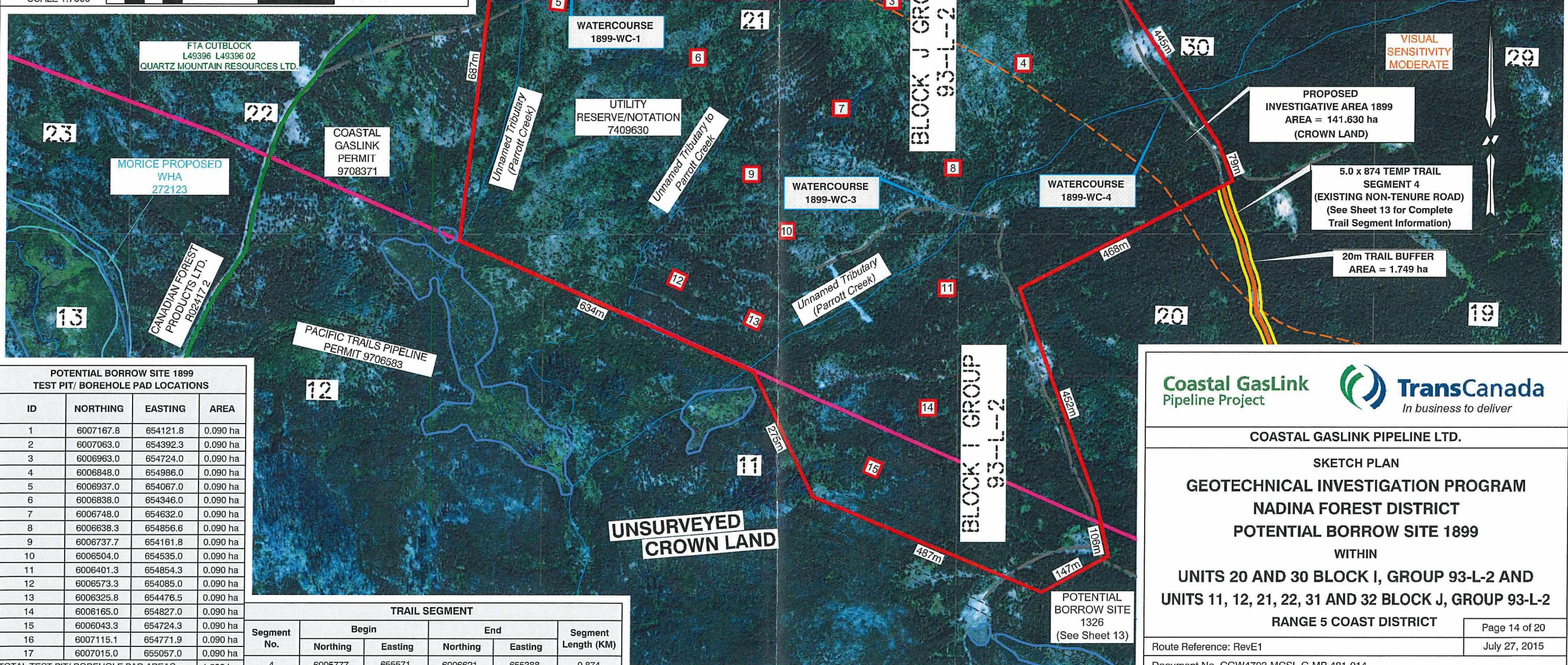
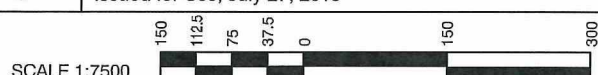
**McELHANNEY**  
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3111-21423

BCGS 93L . 017

EPASS# 10053173
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REVISION	DESCRIPTION
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0	Issued for Use, July 27, 2015
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POTENTIAL BORROW SITE 1899 TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6007167.8	654121.8	0.090 ha
2	6007063.0	654392.3	0.090 ha
3	6006963.0	654724.0	0.090 ha
4	6006848.0	654986.0	0.090 ha
5	6006937.0	654067.0	0.090 ha
6	6006838.0	654346.0	0.090 ha
7	6006748.0	654632.0	0.090 ha
8	6006638.3	654856.6	0.090 ha
9	6006737.7	654161.8	0.090 ha
10	6006504.0	654535.0	0.090 ha
11	6006401.3	654854.3	0.090 ha
12	6006573.3	654085.0	0.090 ha
13	6006325.8	654476.5	0.090 ha
14	6006165.0	654827.0	0.090 ha
15	6006043.3	654724.3	0.090 ha
16	6007115.1	654771.9	0.090 ha
17	6007015.0	655057.0	0.090 ha

TRAIL SEGMENT					
Segment No.	Begin		End		Segment Length (KM)
	Northing	Easting	Northing	Easting	
1	6005777	655571	6006601	655208	0.974

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601013
Mineral Tenure :	853512
Range Tenure :	None
Trapper :	TR0609T008
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None

WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
1899-WC-1	6007243.2	654090.2
1899-WC-2	6007033.6	654625.1
1899-WC-3	6006547.5	654886.2
1899-WC-4	6006789.0	655279.0

\*NOTE\*

POTENTIAL BORROW SITE 1899

Proposed 141.630 ha Investigative Area to contain approximately 17 Test Pits/Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/	
Borehole pads	= 1.530 ha
Temp. Trails	= 25.506 ha
Total	= 27.036 ha

A Post Construction Plan will be issued to show final locations and clearing.



**LEGEND:**  
 Proposed 15 x 15 Test Pit/ Borehole Pad Investigative Area  
 Existing Access  
 Non-Status Road  
 MOTI, Permitted and Forest Service Road  
 Mineral Claim / Lease

**NOTES:**  
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 -UTM Coordinates shown are NAD83 Zone 9 N.  
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 -Distances shown are in metres and decimals thereof.

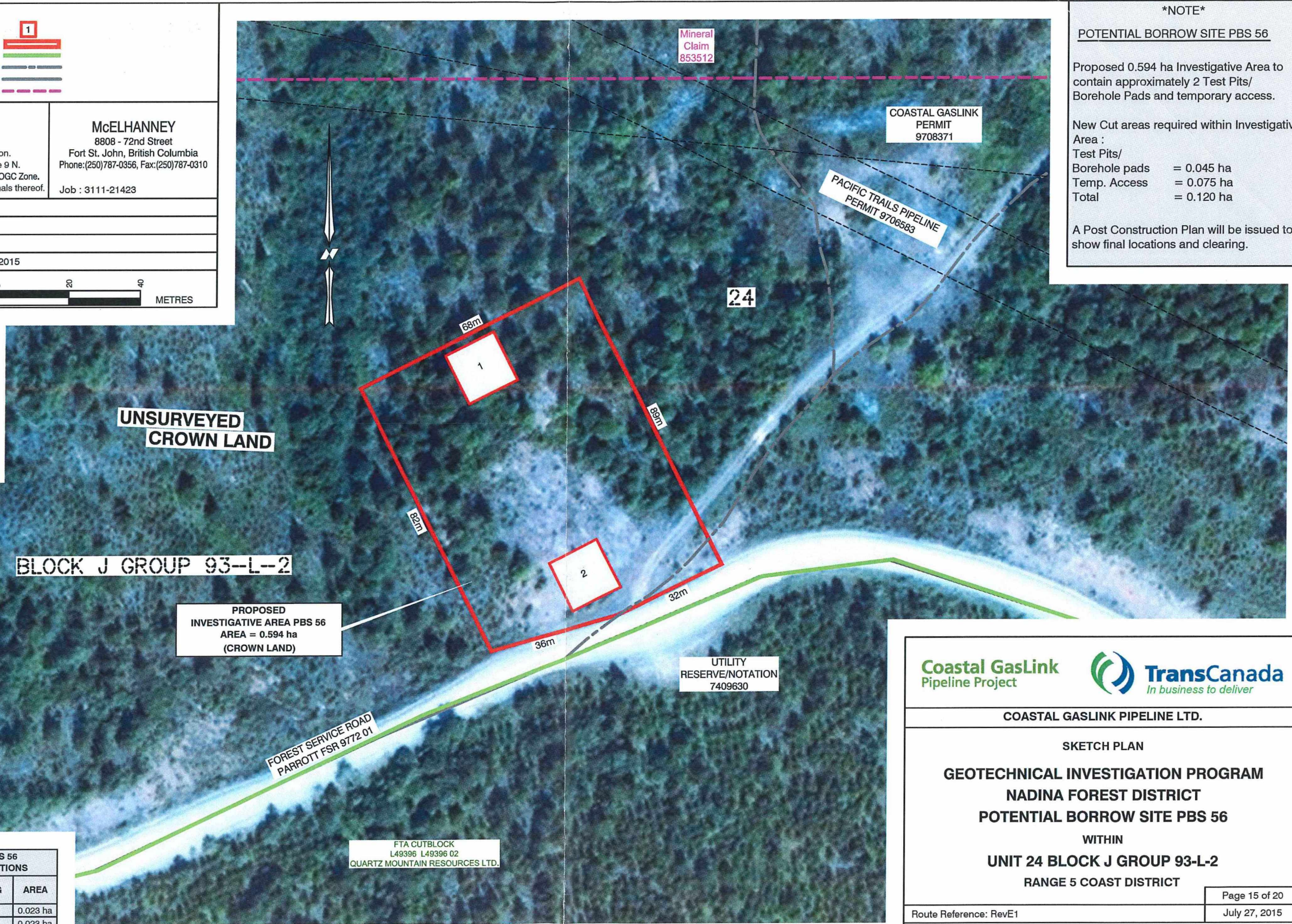
**McELHANNEY**  
 8808 - 72nd Street  
 Fort St. John, British Columbia  
 Phone: (250) 787-0356, Fax: (250) 787-0310  
 Job : 3111-21423

BCGS 093L . 017  
 EPASS# 10053173  

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015

SCALE 1:1000

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601013
Mineral Tenure :	None
Range Tenure :	None
Trapper :	TR0609T008
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None
Wood Lot :	None



**\*NOTE\***

**POTENTIAL BORROW SITE PBS 56**

Proposed 0.594 ha Investigative Area to contain approximately 2 Test Pits/ Borehole Pads and temporary access.

New Cut areas required within Investigative Area :

Test Pits/	
Borehole pads	= 0.045 ha
Temp. Access	= 0.075 ha
<b>Total</b>	<b>= 0.120 ha</b>

A Post Construction Plan will be issued to show final locations and clearing.

**PROPOSED INVESTIGATIVE AREA PBS 56**  
 AREA = 0.594 ha  
 (CROWN LAND)

POTENTIAL BORROW SITE PBS 56 TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6006794.1	651933.0	0.023 ha
2	6006737.1	651964.0	0.023 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.045 ha

**COASTAL GASLINK PIPELINE LTD.**  
  
**SKETCH PLAN**  
**GEOTECHNICAL INVESTIGATION PROGRAM**  
**NADINA FOREST DISTRICT**  
**POTENTIAL BORROW SITE PBS 56**  
 WITHIN  
**UNIT 24 BLOCK J GROUP 93-L-2**  
**RANGE 5 COAST DISTRICT**

Route Reference: RevE1  
 Document No. CGW4703-MCSL-G-MP-481-015

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 July 27, 2015

9643055



LEND:

Proposed 30 x 30 Test Pit/ Borehole Pad Investigative Area

Existing Access

Coastal Gaslink Proposed Route

Non-Status Road

MOTI, Permitted and Forest Service Road

Hydrology (TRIM Data)

1

Forest Cut Block / Opening

Mineral Claim / Lease

Wildlife Tree Retention

Wetlands

PNG Grid Boundary

Range Tenure

Wildlife Habitat Area

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 9 N.

-The proposed project is within the Southwest OGC Zone.

-Distances shown are in metres and decimals thereof.

MCELHANNEY

8808 - 72nd Street

Fort St. John, British Columbia

Phone:(250)787-0356, Fax:(250)787-0310

Job : 3111-21423

BCGS 93L . 017

EPASS# 10053173

REVISION

DESCRIPTION

0

Issued for Use, July 27, 2015

SCALE 1:7500

150

112.5

75

37.5

0

150

300

METRES

\*NOTE\*

POTENTIAL BORROW SITE 1881A

Proposed 80.426 ha Investigative Area to contain approximately 7 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/

Borehole pads

Temp. Trails

Total

= 0.630 ha

= 7.110 ha

= 7.740 ha

A Post Construction Plan will be issued to show final locations and clearing.

\*NOTE\*

POTENTIAL BORROW SITE 1881B

Proposed 64.588 ha Investigative Area to contain approximately 9 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/

Borehole pads

Temp. Trails

Total

= 0.810 ha

= 7.540 ha

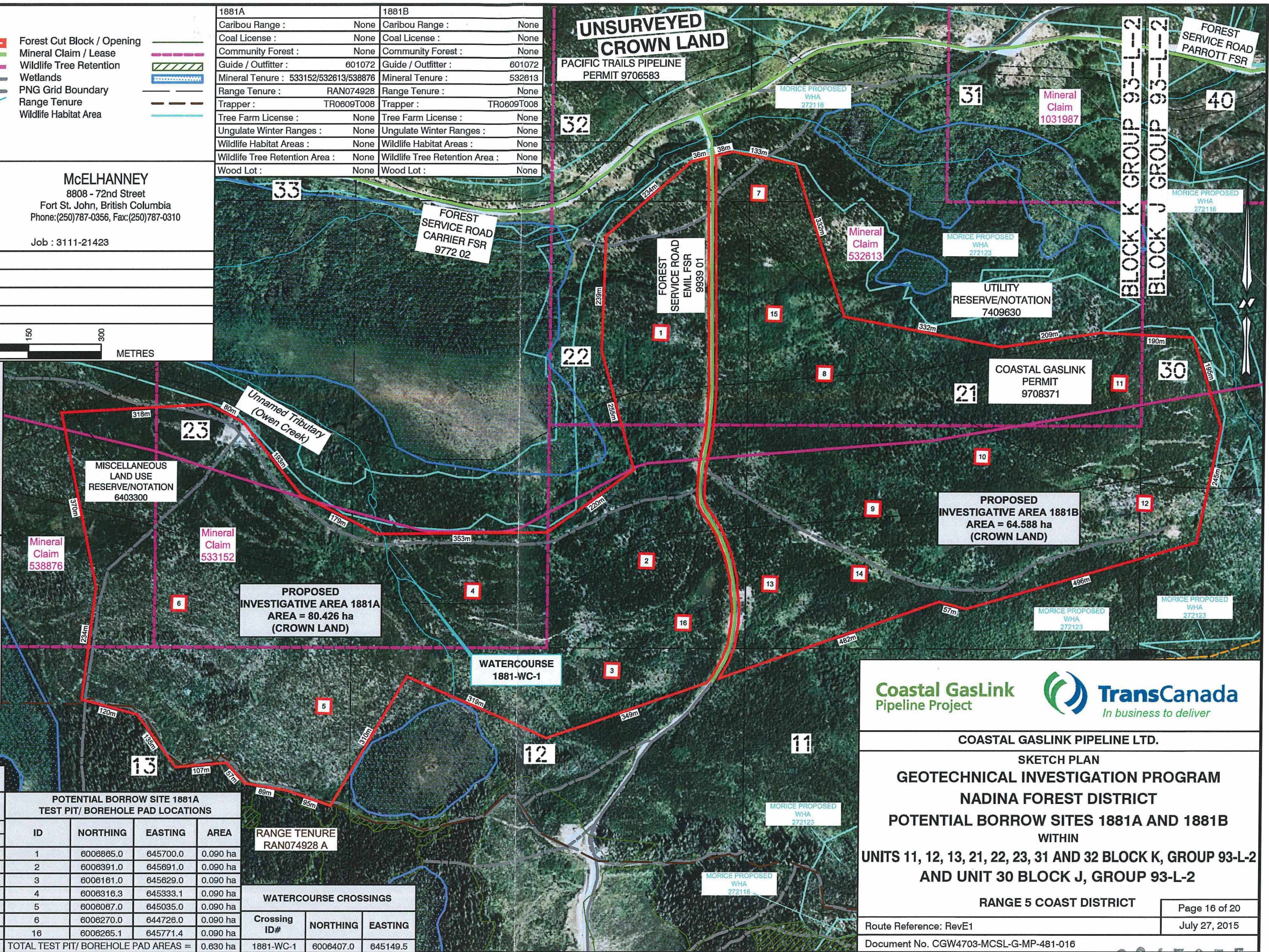
= 8.350 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE 1881B TEST PIT/ BOREHOLE PAD LOCATIONS				POTENTIAL BORROW SITE 1881A TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA	ID	NORTHING	EASTING	AREA
7	6007161.0	645890.0	0.090 ha	1	6006885.0	645700.0	0.090 ha
8	6006792.0	646043.0	0.090 ha	2	6006391.0	645691.0	0.090 ha
9	6006515.0	646154.0	0.090 ha	3	6006161.0	645629.0	0.090 ha
10	6006631.0	646376.0	0.090 ha	4	6006316.3	645333.1	0.090 ha
11	6006793.0	646654.0	0.090 ha	5	6006067.0	645035.0	0.090 ha
12	6006546.0	646717.0	0.090 ha	6	6006270.0	644726.0	0.090 ha
13	6006352.0	645948.0	0.090 ha	16	6006265.1	645771.4	0.090 ha
14	6006379.5	646131.6	0.090 ha				
15	6006912.2	645932.4	0.090 ha				
TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.810 ha				TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.630 ha			

WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
1881-WC-1	6006407.0	645149.5

1881A		1881B	
Caribou Range :	None	Caribou Range :	None
Coal License :	None	Coal License :	None
Community Forest :	None	Community Forest :	None
Guide / Outfitter :	601072	Guide / Outfitter :	601072
Mineral Tenure :	533152/532613/538876	Mineral Tenure :	532613
Range Tenure :	RAN074928	Range Tenure :	None
Trapper :	TR0609T008	Trapper :	TR0609T008
Tree Farm License :	None	Tree Farm License :	None
Ungulate Winter Ranges :	None	Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	None	Wildlife Habitat Areas :	None
Wildlife Tree Retention Area :	None	Wildlife Tree Retention Area :	None
Wood Lot :	None	Wood Lot :	None



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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITES 1881A AND 1881B

WITHIN

UNITS 11, 12, 13, 21, 22, 23, 31 AND 32 BLOCK K, GROUP 93-L-2

AND UNIT 30 BLOCK J, GROUP 93-L-2

RANGE 5 COAST DISTRICT

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July 27, 2015

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-016

9643055



LE ND :

Proposed 30 x 30 Test Pit/ Borehole Pad

Investigative Area

Existing Access

Non-Status Road

MOTI, Permitted and Forest Service Road

1

Mineral Claim / Lease

Wetlands

Hydrology (TRIM Data)

PNG Grid Boundary

Wildlife Habitat Area

NOTES :

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

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-UTM Coordinates shown are NAD83 Zone 9 N.

-The proposed project is within the Southwest OGC Zone.

-Distances shown are in metres and decimals thereof.

McELHANNEY

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Job : 3111-21423

BCGS 93L . 017

EPASS# 10053173

REVISION

DESCRIPTION

0

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SCALE 1:2500

50

37.5

25

12.5

0

50

100

METRES

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601072
Mineral Tenure :	1031987
Range Tenure :	None
Trapper :	TR0609T008
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	272116/272123
Wildlife Tree Retention Area :	None
Wood Lot :	None

\*NOTE\*

POTENTIAL BORROW SITE PBS 55

Proposed 1.405 ha Investigative Area to contain approximately 3 Test Pits/ Borehole Pads and temporary access.

New Cut areas required within Investigative Area :

Test Pits/

Borehole pads

Temp. Access

Total

= 0.270 ha

= 0.468 ha

= 0.738 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE PBS 55 TEST PIT/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6007499.6	646290.6	0.090 ha
2	6007553.0	646324.1	0.090 ha
3	6007594.8	646324.6	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.270 ha			

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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE PBS 55

WITHIN

UNIT 31, BLOCK K GROUP 93-L-2

RANGE 5 COAST DISTRICT

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-481-017

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July 27, 2015

9643055



LE ID:

Prop. - J 30 x 30 Test Pit/ Borehole Pad

Investigative Area  
Existing Access  
Coastal Gaslink Proposed Route  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Hydrology (TRIM Data) NCD/NVD  
Old Growth Management Area

Forest Cut Block / Opening  
Mineral Claim / Lease  
Visual Sensitivity Boundary  
Temp. 5.0 Trail  
40m Trail Buffer  
PNG Grid Boundary

NOTES :

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-The proposed project is within the Southwest OGC Zone.  
-Distances shown are in metres and decimals thereof.

MCELHANNNEY

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Job : 31111-21423

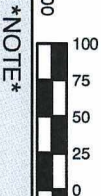
BCGS 93L . 016

EPASS# 10053173

REVISION DESCRIPTION

0 Issued for Use, July 27, 2015

SCALE 1:5000



\*NOTE\*

POTENTIAL BORROW SITE 2225

Proposed 5.214 ha Investigative Area to contain approximately 4 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/  
Borehole pads = 0.360 ha  
Temp. Trails = 0.762 ha  
Total = 1.122 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE 2225

TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	6005102.9	640280.9	0.090 ha
2	6005008.9	640291.2	0.090 ha
3	6004867.5	640180.0	0.090 ha
4	6004980.0	640093.0	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.360 ha

Caribou Range : None

Coal License : None

Community Forest : None

Guide / Outfitter : 601072

Mineral Tenure : None

Range Tenure : None

Trapper : TR0609T010

Tree Farm License : None

Ungulate Winter Ranges : None

Wildlife Habitat Areas : None

Wildlife Tree Retention Area : None

Wood Lot : None

WATERCOURSE CROSSINGS

Crossing ID#	NORTHING	EASTING
2225-WC-1	6004939.0	640337.0

MISCELLANEOUS LAND USE  
RESERVE/NOTATION  
6403300

OGWA  
SKE\_MOR\_1068



BLOCK K GROUP 93-L-2

10

9

19

18

COASTAL GASLINK  
PERMIT  
9708371

PROPOSED  
INVESTIGATIVE AREA 2225  
AREA = 5.214 ha  
(CROWN LAND)

UNSURVEYED  
CROWN LAND

OPENING  
1431490

40m TRAIL BUFFER  
AREA = 0.417 ha

WEST FRASER MILLS LTD.  
R03007 A

WATERCOURSE  
2225-WC-1

5.0 x 104 TEMP TRAIL  
SEGMENT 5

VISUAL  
SENSITIVITY  
HIGH

VISUAL  
SENSITIVITY  
HIGH

VISUAL  
SENSITIVITY  
MODERATE

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SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

NADINA FOREST DISTRICT

POTENTIAL BORROW SITE 2225

WITHIN

UNITS 8, 9, 18 AND 19 BLOCK K, GROUP 93-L-2

RANGE 5 COAST DISTRICT

Route Reference: Rev/E1

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9643055

Segment No.	Begin Northing	Begin Easting	End Northing	End Easting	Segment Length (KM)
5	6004895	640391	6004961	640310	0.104



LEND:

Proposed 30 x 30 Test Pit/ Borehole Pad  
Investigative Area  
Existing Access  
Coastal Gaslink Proposed Route  
Non-Status Road  
MOTI, Permitted and Forest Service Road  
Hydrology (TRIM Data)  
Wildlife Habitat



Forest Cut Block / Opening  
Visual Sensitivity Boundary  
Mineral Claim / Lease  
Wetlands  
PNG Grid Boundary

NOTES:

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-Distances shown are in metres and decimals thereof.

McELHANNY

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BCGS 93L.016

EPASS# 10053173

REVISION DESCRIPTION

0 Issued for Use, July 27, 2015

SCALE 1:5000



\*NOTE\*

POTENTIAL BORROW SITE WP21

Proposed 32.803 ha Investigative Area to contain approximately 8 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area:

Test Pits/ Borehole pads = 0.720 ha  
Temp. Trails = 3.726 ha  
Total = 4.446 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE WP21  
TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	6006126.0	631023.0	0.090 ha
2	6006128.0	631231.0	0.090 ha
3	6006133.0	631432.0	0.090 ha
4	6006148.0	631658.0	0.090 ha
5	6005973.0	631661.0	0.090 ha
6	6005989.2	631408.1	0.090 ha
7	6006001.3	631218.0	0.090 ha
8	6005995.3	630982.7	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.720 ha

Caribou Range : Telkwa  
Coal License : None  
Community Forest : None  
Guide / Outfitter : 601072  
Mineral Tenure : None  
Range Tenure : None  
Trapper : TH08091011  
Tree Farm License : None  
Ungulate Winter Ranges : None  
Wildlife Habitat Areas : 6-286  
Wildlife Tree Retention Area : None  
Wood Lot : None

UTILITY  
RESERVE/NOTATION  
7409630

PROPOSED  
INVESTIGATIVE AREA WP21  
AREA = 32.803 ha  
(CROWN LAND)

VISUAL  
SENSITIVITY  
MODERATE

MISCELLANEOUS LAND USE  
RESERVE/NOTATION  
6403300

WEST FRASER MILLS LTD.  
R133121 OWEN

COASTAL GASLINK  
PERMIT  
9708371

PACIFIC TRAILS PIPELINE  
PERMIT 9706583

Mineral  
Claim  
846450

OPENING  
115323  
WEST FRASER  
MILLS LTD.

UNSURVEYED  
CROWN LAND

WILDLIFE HABITAT AREA  
25782

WEST FRASER MILLS LTD.  
R07031 36 CP 324 SPUR V

WEST FRASER MILLS LTD.  
R133121 OWEN


FTA CUTBLOCK  
A16827 324 EW9324.1

WEST FRASER MILLS LTD.

OPENING  
1367890  
WEST FRASER  
MILLS LTD.

OPENING  
115316  
WEST FRASER  
MILLS LTD.

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SKETCH PLAN  
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NADINA FOREST DISTRICT  
POTENTIAL BORROW SITE WP21  
WITHIN  
UNITS 29 AND 30 BLOCK L, GROUP 93-L-2  
RANGE 5 COAST DISTRICT

Route Reference: Rev'E1  
Document No. CGW4703-MCSL-G-MP-481-019

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July 27, 2015

BLOCK L  
GROUP 93--L--2

BLOCK L  
GROUP 93--L--3



**LEGEND:**  
Proposed 30 x 30 Test Pit/ Borehole Pad  
Proposed 50 x 50 Test Pit/ Helipad/ Borehole Pad  
Investigative Area  
Coastal Gaslink Proposed Route  
Hydrology (TRIM Data)  
Wildlife Habitat Area

1

2

Forest Cut Block / Opening  
Range Tenure  
Wetlands  
PNG Grid Boundary  
Trapper Boundary

**NOTES :**  
-The proposed project is not within the Agricultural Land Reserve (ALR)  
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-UTM Coordinates shown are NAD83 Zone 9 N.  
-The proposed project is within the Southwest OGC Zone.  
-Distances shown are in metres and decimals thereof.

**McELHANNEY**  
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Job : 3111-21423

BCGS 93L . 012

EPASS# 10053173

REVISION	DESCRIPTION
0	Issued for Use, July 27, 2015

SCALE 1:5000

0

25

50

75

100

125

150

175

200

METRES

**\*NOTE\***

POTENTIAL BORROW SITE 1682

Proposed 41,579 ha Investigative Area to contain approximately 6 Test Pits/ Helipads/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/ Helipads/ Borehole pads = 0.860 ha

Temp. Trails = 6.680 ha

Total = 7.540 ha

A Post Construction Plan will be issued to show final locations and clearing.

POTENTIAL BORROW SITE 1682 TEST PIT/ HELIPADS/ BOREHOLE PAD LOCATIONS			
ID	NORTHING	EASTING	AREA
1	6004043.1	581188.6	0.090 ha
2	6004117.8	580918.5	0.090 ha
3	6004090.2	580675.8	0.090 ha
4	6003922.0	580841.5	0.250 ha
5	6003644.4	580827.8	0.250 ha
6	6003493.4	580998.7	0.090 ha
TOTAL TEST PIT/ HELIPADS/ BOREHOLE PAD AREAS =			0.860 ha

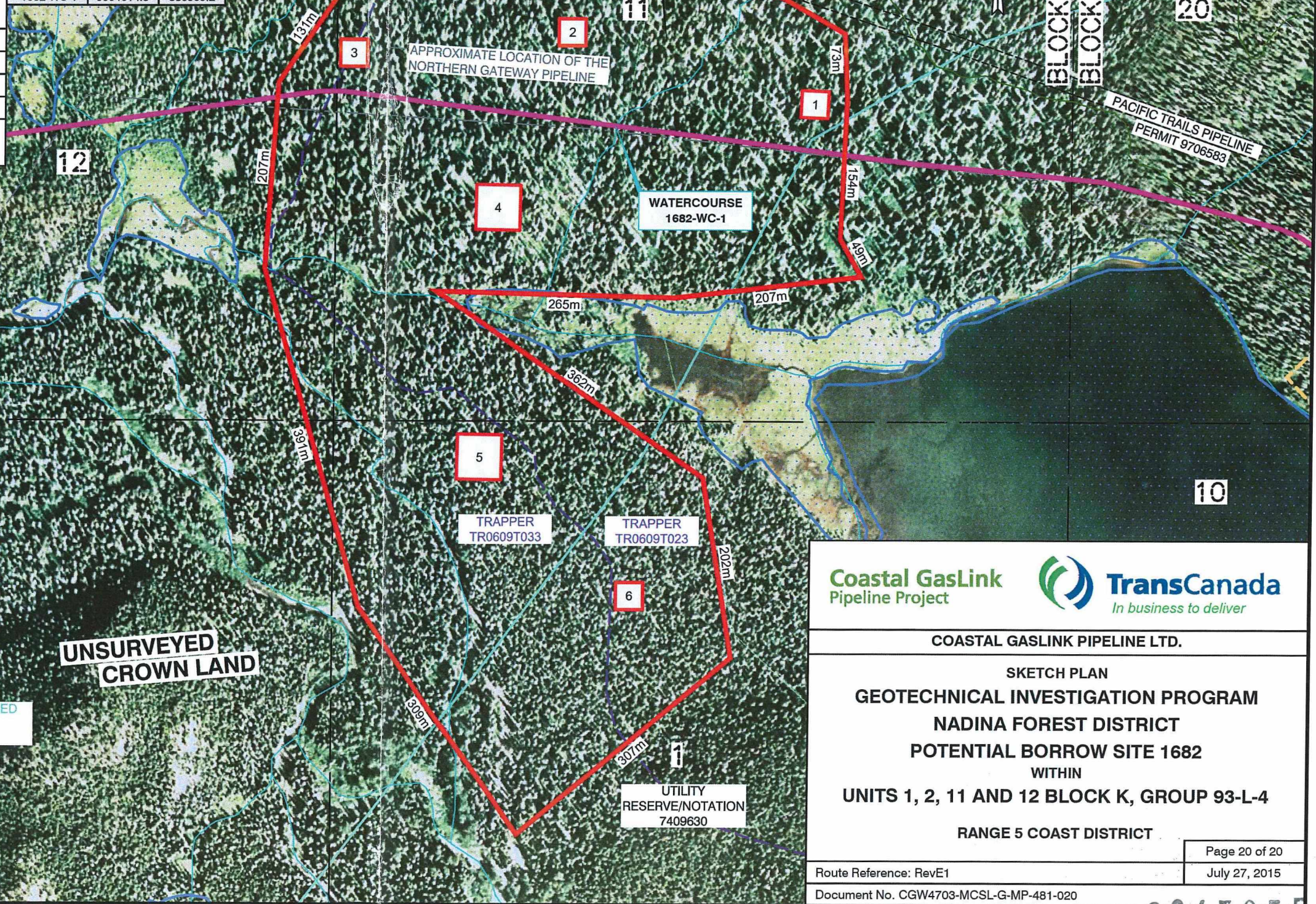
TELKWA PROPOSED WHA 272113

3

2

Caribou Range :	None
Coal License :	None
Community Forest :	None
Guide / Outfitter :	601044
Mineral Tenure :	None
Range Tenure :	RAN077588
Trapper :	TR0609T023 / TR0609T033
Tree Farm License :	None
Ungulate Winter Ranges :	None
Wildlife Habitat Areas :	272113
Wildlife Tree Retention Area :	None
Wood Lot :	None

WATERCOURSE CROSSINGS		
Crossing ID#	NORTHING	EASTING
1682-WC-1	6004014.3	580969.2



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SKETCH PLAN  
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NADINA FOREST DISTRICT  
POTENTIAL BORROW SITE 1682  
WITHIN  
UNITS 1, 2, 11 AND 12 BLOCK K, GROUP 93-L-4  
RANGE 5 COAST DISTRICT

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July 27, 2015

Route Reference: RevE1  
Document No. CGW4703-MCSL-G-MP-481-020

9643055