

August 8, 2022

Coastal GasLink Pipeline Ltd.
450 - 1st Street SW
Calgary, AB T2P5H1

Attention: Coastal GasLink Pipeline Ltd.

RE: Determination of Application Number 100116316

Permit Holder: Coastal GasLink Pipeline Ltd.
Date of Issuance: August 8, 2022
Effective Date: August 8, 2022
Application Submission Date: July 26, 2022
Application Determination Number: 100083656

AUTHORIZATIONS and CONDITIONS

AUTHORIZATIONS

Forest Act

1. The Commission, pursuant to section 47.4 of the *Forest Act*, hereby authorizes the removal of Crown timber from the activity area under the cutting permit(s) associated with the Master Licence(s) as follows:

Master Licence to Cut No.: M02615
Cutting Permit No.: 23
Timber Mark No.: MTD674
Total New Cut: 42.92 ha
Forest District: (DVA) Vanderhoof Natural Resource District
Region: Interior

2. The cutting permit(s) are deemed spent upon the submission of the post-construction plan or upon either the cancellation or expiry of the activities authorized under the permit.

CONDITIONS

Notification

3. A notice of construction start must be submitted, as per the relevant Commission process at the time of submission, at least 48 hours prior to the commencement of activities under this permit.

Clearing/Forest Act

4. The permit holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the activity area that are considered to be a safety hazard according to Workers Compensation Act regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the activity area without causing damage to standing timber may be harvested.
5. The holder of the cutting permit must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.

6. The authorized cutting permit does not grant the permit holder the exclusive right to harvest Crown timber from the activity area. 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.
7. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark.
8. Any waste assessments applied under the Master Licence to Cut are subject to the merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Manual specific to the region associated with the Cutting Permit authorization.
9. Stumpage will be calculated in accordance with the Interior Appraisal Manual as amended from time to time. In the current version of the Interior Appraisal Manual, stumpage will be determined in accordance with Table 6-3.

ADVISORY GUIDANCE

1. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.

All pages included in this permit and any attached documents form an integral part of this permit.



[Corey Scofield](#)

Authorized Signatory

Commission Delegated Decision Maker

Copied to:

Land Agent – Roy Northern Land Service Ltd.

Ministry of Forests District Office - (DVA) Vanderhoof Natural Resource District

January 11, 2018

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

Attention: Coastal GasLink Pipeline Ltd.

RE: Permit Replacement for Application Determination No. 100083656, OGC Legacy No. 9641436

Permit Holder: Coastal GasLink Pipeline Ltd.
Permit Date of Issuance: January 12, 2016
Replacement Date of Issuance: January 11, 2018
Replacement Expiration Date: January 12, 2020
Application Determination No.: 100083656

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 and any additional conditions as set out herein.
3. The permit has been replaced for two years and will expire on January 12, 2020.

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.

ADVISORY GUIDANCE

1. On September 21, 2015, section 14 of the *Land Act* was repealed. Accordingly, the section 14 *Land Act* authorization originally granted to enter, occupy and use any unoccupied Crown land for the purposes of carrying out this oil and gas activity is now authorized under section 138(1) of the *Petroleum and Natural Gas Act*, and the original authorization will be cancelled.



Tarilee Rauscher
Authorized Signatory
Commission Delegated Decision Maker

pc: Land Agent – Roy Northern Land and Environmental

January 12, 2016

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

Attention: Surface land Administrator

Re: Geotechnical Investigation within PBS 78A, 78B, 78C, within Units 59 and 69 Block F, 93-K-2; 4089 within Units 49 and 59 Block G, 93-K-2; 5646A and 5646B within Units 1, 11, 12 and 21 Block I, 93-K-2 Units 9, 10, 19 and 20 Block L, 93-K-1; 879151 within Unit 41 Block G, 93-K-1 and Units 50, 59 and 60 Block H, 93-K-1; 5490 within Units 94 and 95 Block G 93-J-4 and Units 4, 5 and 6 Block J, 93-J-4

Date of Issuance: January 12, 2016
Commission No.: 9641436

AUTHORIZATIONS

1. Pursuant to section 39 of the *Land Act*, the permit holder is authorized to enter, occupy, and use any unoccupied Crown land located within the areas described in the attached sketch plan, Document No: CGW4703-MCSL-G-MP-397-001-Geotech_Borrow_Vanderhoof_Sketch_PBS78A_B_C-Rev2, Sheet 1 of 5, Revision 2, Document No: CGW4703-MCSL-G-MP-397-002-Geotech_Borrow_Vanderhoof_Sketch_4089-Rev2, Sheet 2 of 5, Revision 2, Document No: CGW4703-MCSL-G-MP-397-003-Geotech_Borrow_Vanderhoof_Sketch_5646-Rev2, Sheet 3 of 5, Revision 2, Document No: CGW4703-MCSL-G-MP-397-004-Geotech_Borrow_Vanderhoof_Sketch_879151-Rev2, Sheet 4 of 5, Revision 2, Document No: CGW4703-MCSL-G-MP-397-005-Geotech_Borrow_Vanderhoof_Sketch_5490-Rev2, Sheet 5 of 5, Revision 2, dated December 16, 2014, by McElhanney Geomatics Professional Land Surveying Ltd. as submitted to the Commission in the permit application dated November 12, 2014 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.
2. 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 authorization is otherwise suspended, cancelled, surrendered or declared spent.

CONDITIONS

1. The total disturbance within the site must not exceed 42.922 ha.
2. A licence authorized under section 39 of the *Land Act* for the Crown land portion of this site is attached. The permit holder is subject to the conditions contained in the licence.
3. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the site.
4. 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.
5. The permit holder must not assign, sublicense or transfer 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.
6. 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.
7. The permit holder must ensure that the area is free of garbage, debris and unused equipment.

8. Following completion of the activities authorized under this permit the permit holder must, as soon as practicable, de-compact any soils compacted by the activity.
9. If natural surface drainage pattern was altered by the carrying out of the activity, the permit holder must
 - a. restore, to the extent practicable, to the drainage pattern and its condition before the alteration; and
 - b. re-vegetate any exposed soil on the operating area using seed or vegetative propagules of an ecologically suitable species that
 - i. promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
 - ii. stabilize the soil if it is highly susceptible to erosion.
10. Following completion of the activities authorized 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.
11. 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.
12. No boreholes pads, test pits or temporary access trails are to be located within any Wildlife Tree Retention Area.
13. No borehole pads, test pits or temporary access trails are to be located within the Riparian Management Area of any watercourse, wetland or lake.
14. Topsoil stripping, ditching and road bed construction are not permitted within the temporary access trails.
15. A qualified archaeologist must be present during construction activities to ensure that archaeological site GaSe-34 and GbSc-11 are not impacted. The archaeology sites must be flagged in the field with No Work Zone ribbon. A qualified archaeologist must monitor each sample point and if necessary conduct testing to ensure that archaeological resources are not impacted.

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.
16. The permit holder must notify Nak'azdli First Nation a minimum of two (2) working days prior to commencing activities under this permit.
 17. The permit holder must notify Nadleh Whut'en First Nation a minimum of two (2) working days prior to commencing activities under this permit.
 18. The permit holder must notify Stellat'en First Nation a minimum of two (2) working days prior to commencing activities under this permit.
 19. The permit holder must notify Saik'uz First Nation a minimum of two (2) working days prior to commencing activities under this permit.
 20. The permit holder must notify Yekooche First Nation a minimum of two (2) working days prior to commencing any construction activities under this permit.
 21. The permit holder must notify the Carrier Sekani Tribal Council a minimum of two (2) working days prior to commencing any construction activities under this permit.

RELATED AUTHORIZATIONS ASSOCIATED WITH THE PERMIT

Cutting Permit under Master Licence to Cut under section 47.4 of the Forest Act

1. The Commission hereby issues the permit holder Cutting Permit No. 5 under Master Licence to Cut number M02342, subject to the following conditions:
 - a. This Cutting Permit is subject to the terms and conditions in the Master Licence to Cut.
 - b. This Cutting Permit applies to only the Crown land portion shown on survey plan associated with this permit (sketch plan, Document No: CGW4703-MCSL-G-MP-397-001-Geotech_Borrow_Vanderhoof_Sketch_PBS784A_B_C-Rev2, Sheet 1 of 5, Revision 2, Document No: CGW4703-MCSL-G-MP-397-002-Geotech_Borrow_Vanderhoof_Sketch_4089-Rev2, Revision 2, Sheet 2 of 5, Document No: CGW4703-MCSL-G-MP-397-003-Geotech_Borrow_Vanderhoof_Sketch_5646-Rev2, Revision 2, Document No: CGW4703-MCSL-G-MP-397-004-Geotech_Borrow_Vanderhoof_Sketch_879151-Rev2, Revision 2, Document No: CGW4703-MCSL-G-MP-397-005-Geotech_Borrow_Vanderhoof_Sketch_5490-Rev2, Revision 2, dated December 16, 2014,).
 - c. All harvested Crown timber must be marked with Timber Mark Number MTB 254.
 - d. This Cutting Permit is deemed spent upon the submission of the post-construction plan or upon either the cancellation or the expiry of the permitted oil and gas activity.
 - e. This Cutting Permit does not grant the permit holder the exclusive right to harvest timber from the License area and the Commission reserves the right to grant rights to other persons to harvest timber from the License area.
 - f. The felling, bucking and utilization specifications as described in Appendix A of your Master License to Cut applies to this Cutting Permit.
 - g. Stumpage for this Cutting Permit will be calculated as per Section 6.7 in the Interior Appraisal Manual.
 - i. Where timber felled on the cutting authority area that will not be removed from the site, volume billed will be based on an approved alternate method of scale.
 - h. Timber that is stored in decks or piles must be marked with the correct timber mark before transportation, or at the end of every shift. The marking must be applied to one end of at least 10% of the timber pieces in each deck or pile using a hammer indentation or paint. Marking must be kept concurrent with decking.
 - i. Where the permit holder is aware of overlapping forest tenure rights that have been granted to other persons, the permit holder is obligated to communicate to these persons the timing and extent of their harvest operations at least two weeks prior to commencement of harvest and take all reasonable steps to coordinate their activities with these persons.

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 any subsequent applicable *Land Act* tenures. Upon the Commission's acceptance of the post-construction plan, no further applications for replacement tenure are required.

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



Justin Anderson
Authorized Signatory
Commission Delegated Decision Maker

pc. Roy Northern Land Service Ltd.
OGC File: 9641436

MoFLNRO: Vanderhoof Forest District
OGC First Nations: Carrier Sekani Tribal Council, Nak'azdli First Nation, Nadleh Whut'en First Nation,
Stellat'en First Nation, Saik'uz First Nation
WorkSafeBC

LEGEND :

	Trapper
	Watercourse
	Wildlife Tree Retention Area
	PNG Grid Boundary
	Existing Access
	Road

1 Proposed 30 x 30 Test Pit/ Borehole Pad

Investigative Area

Existing Access

Cutblock/Opening Areas

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 . 016 Data sets sourced on this map are defined in the CGL Data Matrix

EPASS# 10048329

REVISION	DESCRIPTION
2	Issued for Use, December 16, 2014

SCALE 1:2500

PBS 78A AND PBS 78B	PBS 78C
Caribou Range : None	Caribou Range : None
Coal License : None	Coal License : None
Community Forest : None	Community Forest : None
Guide / Outfitter : 701137	Guide / Outfitter : 701137
Mineral Tenure : None	Mineral Tenure : None
Range Tenure : None	Range Tenure : None
Trapper : 713T017	Trapper : 713T016 & 713T017
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

NOTE

PROPOSED BORROW PIT PBS 78A

Proposed 3.294 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	= 0.321 ha
Total	= 0.591 ha

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

NOTE

PROPOSED BORROW PIT PBS 78B

Proposed 4.129 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	= 0.648 ha
Total	= 1.008 ha

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

NOTE

PROPOSED BORROW PIT PBS 78C

Proposed 3.416 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	= 0.510 ha
Total	= 0.780 ha

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

UNSURVEYED CROWN LAND

BLOCK F,

TRAPPER 713T017

GROUP

93--K--2

TRAPPER 713T016

58

PROPOSED BORROW PIT 78A
TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	5999881.7	378550.8	0.090 ha
2	5999811.2	378628.5	0.090 ha
3	6000075.8	378525.0	0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.270 ha

PROPOSED BORROW PIT WP 78B
TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
4	6000052.3	378586.0	0.090 ha
5	5999932.1	378606.6	0.090 ha
6	5999820.9	378680.6	0.090 ha
7	5999996.9	378755.3	0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.360 ha

PROPOSED BORROW PIT WP 78C
TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
8	5999934.9	378812.6	0.090 ha
9	5999841.3	378770.8	0.090 ha
10	5999736.7	378737.8	0.090 ha

TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.270 ha

TABLE OF TOTAL AREAS REQUIRED - VANDERHOOF FOREST DISTRICT (CROWN LAND)

Proposed Features:	New Cut	Existing Clearing	Total
TEST PIT/ BOREHOLE PADS	4.140 ha	0.000 ha	4.140 ha
TEMP. TRAILS (WITHIN INVESTIGATIVE AREAS)	38.251 ha	0.000 ha	38.251 ha
TEMP. 5.0m TRAIL (SEGMENT 1)	0.198 ha	0.000 ha	0.198 ha
TEMP. 5.0m TRAIL (SEGMENT 2)	0.333 ha	0.000 ha	0.333 ha
TOTAL PROPOSED FOOTPRINT AREA	42.922 ha	0.000 ha	42.922 ha
TOTAL CROWN LAND DISTURBANCE = 42.922 ha			
INVESTIGATIVE AREAS TOTAL AREA = 229.941 ha			
TRAIL BUFFER TOTAL AREA = 2.913 ha			

PROPOSED INVESTIGATIVE AREA PBS 78A
AREA = 3.294 ha
(CROWN LAND)

FTA CUTBLOCK A86572-5 20001 MOF OPENING 1439571 (STELLAKO CUSTOM WOOD LTD.)

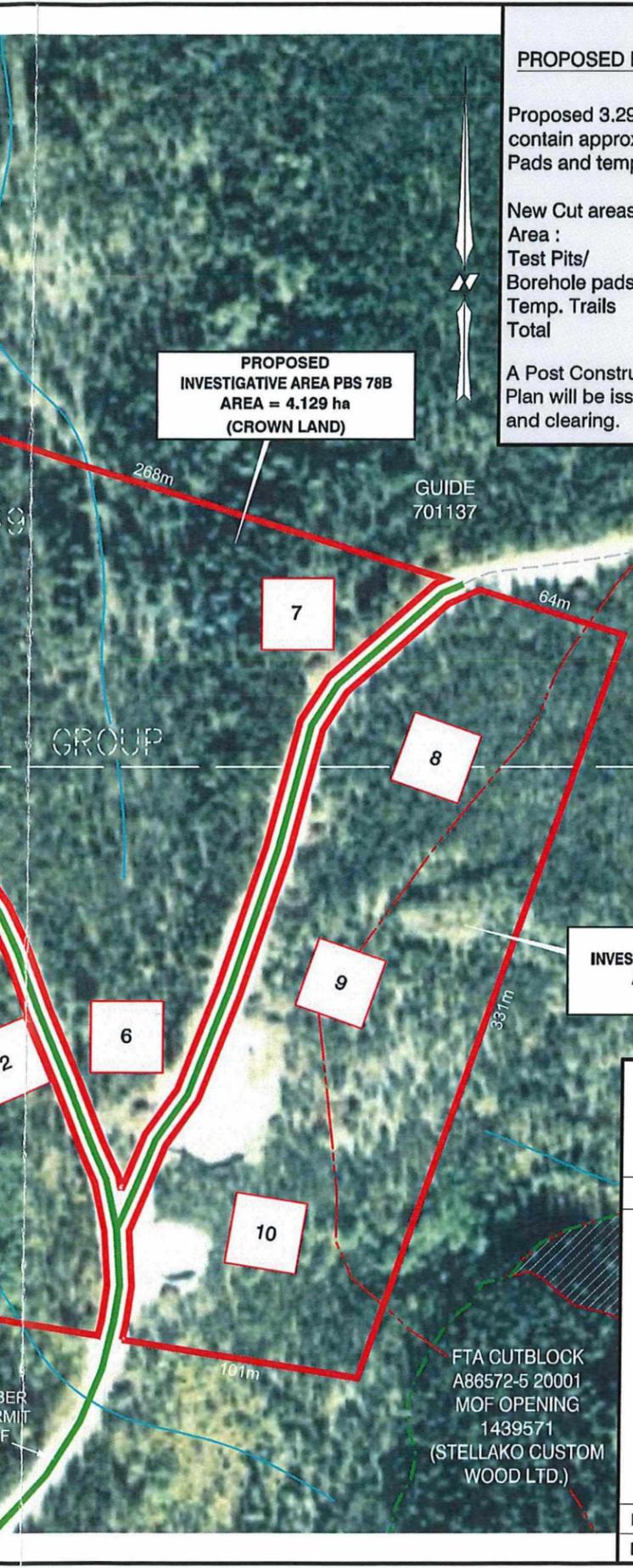
STELLAKO ROAD PERMIT R18689 A

L&M LUMBER ROAD PERMIT R09200 F

L&M LUMBER ROAD PERMIT R09200 G

L&M LUMBER ROAD PERMIT R09200 F

FTA CUTBLOCK A86572-5 20001 MOF OPENING 1439571 (STELLAKO CUSTOM WOOD LTD.)



Coastal GasLink Pipeline Project

TransCanada
In business to deliver

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

VANDERHOOF FOREST DISTRICT

BORROW PITS PBS 78A, 78B, 78C

WITHIN

UNITS 59 AND 69 BLOCK F, GROUP 93-K-2

RANGE 5 COAST DISTRICT

Page 1 of 5

December 16, 2014

Route Reference: RevE1

Document No. CGW4703-MCSL-G-MP-397-001-Geotech_Borrow_Vanderhoof_Sketch_PBS78A_B_C-Rev2

LEGEND :

- 1 Proposed 30 x 30 Test Pit/Borehole Pad
- Investigative Area
- Coastal GasLink Proposed Route
- Section / District Lot Boundary
- Existing Access
- Watercourse
- Road
- PNG Grid Boundary
- Cutblock/Opening Areas

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.

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Phone:(250)787-0356, Fax:(250)787-0310
Job : 3111-21423

BCGS 93K . 017 | Data sets sourced on this map are defined in the CGL Data Matrix

EPASS# 10048329

REVISION	DESCRIPTION
2	Issued for Use, December 16, 2014

SCALE 1:5000

Caribou Range : None
Coal License : None
Community Forest : None
Guide / Outfitter : 701137
Mineral Tenure : None
Range Tenure : RAN077277
Trapper : 713T015
Tree Farm License : None
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

NOTE

PROPOSED BORROW PIT 4089

Proposed 9.480 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	= 2.652 ha
Total	= 2.922 ha

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



PROPOSED BORROW PIT 4089 TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	5998828.0	386984.0	0.090 ha
2	5998677.9	386943.1	0.090 ha
3	5998558.8	386848.8	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.270 ha

TABLE OF TOTAL AREAS REQUIRED - VANDERHOOF FOREST DISTRICT (CROWN LAND)

Proposed Features:	New Cut	Existing Clearing	Total
TEST PIT/ BOREHOLE PADS	4.140 ha	0.000 ha	4.140 ha
TEMP. TRAILS (WITHIN INVESTIGATIVE AREAS)	38.251 ha	0.000 ha	38.251 ha
TEMP. 5.0m TRAIL (SEGMENT 1)	0.198 ha	0.000 ha	0.198 ha
TEMP. 5.0m TRAIL (SEGMENT 2)	0.333 ha	0.000 ha	0.333 ha
TOTAL PROPOSED FOOTPRINT AREA	42.922 ha	0.000 ha	42.922 ha
TOTAL CROWN LAND DISTURBANCE = 42.922 ha			
INVESTIGATIVE AREAS TOTAL AREA = 229.941 ha			
TRAIL BUFFER TOTAL AREA = 2.913 ha			



COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM
VANDERHOOF FOREST DISTRICT
BORROW PIT 4089

WITHIN

UNITS 49 AND 59 BLOCK G, GROUP 93-K-2

RANGE 5 COAST DISTRICT

Route Reference: RevE1 | December 16, 2014
Document No. CGW4703-MCSL-G-MP-397-002-Geotech_Borrow_Vanderhoof_Sketch_4089-Rev2

9641436

TABLE OF TOTAL AREAS REQUIRED - VANDERHOOF FOREST DISTRICT (CROWN LAND)

Proposed Features:	New Cut	Existing Clearing	Total
TEST PIT/ BOREHOLE PADS	4.140 ha	0.000 ha	4.140 ha
TEMP. TRAILS (WITHIN INVESTIGATIVE AREAS)	38.251 ha	0.000 ha	38.251 ha
TEMP. 5.0m TRAIL (SEGMENT 1)	0.198 ha	0.000 ha	0.198 ha
TEMP. 5.0m TRAIL (SEGMENT 2)	0.333 ha	0.000 ha	0.333 ha
TOTAL PROPOSED FOOTPRINT AREA	42.922 ha	0.000 ha	42.922 ha
TOTAL CROWN LAND DISTURBANCE = 42.922 ha			
INVESTIGATIVE AREAS TOTAL AREA = 229.941 ha			
TRAIL BUFFER TOTAL AREA = 2.913 ha			

PROPOSED BORROW PIT 5646A TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	6004291.0	401117.0	0.090 ha
2	6004405.0	401408.0	0.090 ha
3	6004390.0	401646.8	0.090 ha
4	6004245.8	401368.4	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.360 ha

PROPOSED BORROW PIT 5646B TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
5	6003797.3	402149.4	0.090 ha
6	6004050.0	402266.0	0.090 ha
7	6003641.4	402427.1	0.090 ha
8	6003865.0	402586.0	0.090 ha
9	6003610.7	402648.8	0.090 ha
10	6004087.5	402813.6	0.090 ha
11	6003727.0	402838.6	0.090 ha
12	6003898.0	402981.0	0.090 ha
13	6004100.0	403101.9	0.090 ha
14	6004255.8	403123.7	0.090 ha
15	6004292.4	402462.4	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS =			0.990 ha

LEGEND :

- 1 Proposed 30 x 30 Test Pit/Borehole Pad
- Investigative Area
- Coastal GasLink Proposed Route
- Existing Access
- Section Boundary
- Trapper
- Reserve / Notation
- Road
- Watercourse
- Wildlife Tree Retention Area
- Cutblock/Opening Areas
- PNG Grid Boundary
- Wetlands
- WDL Woodlot

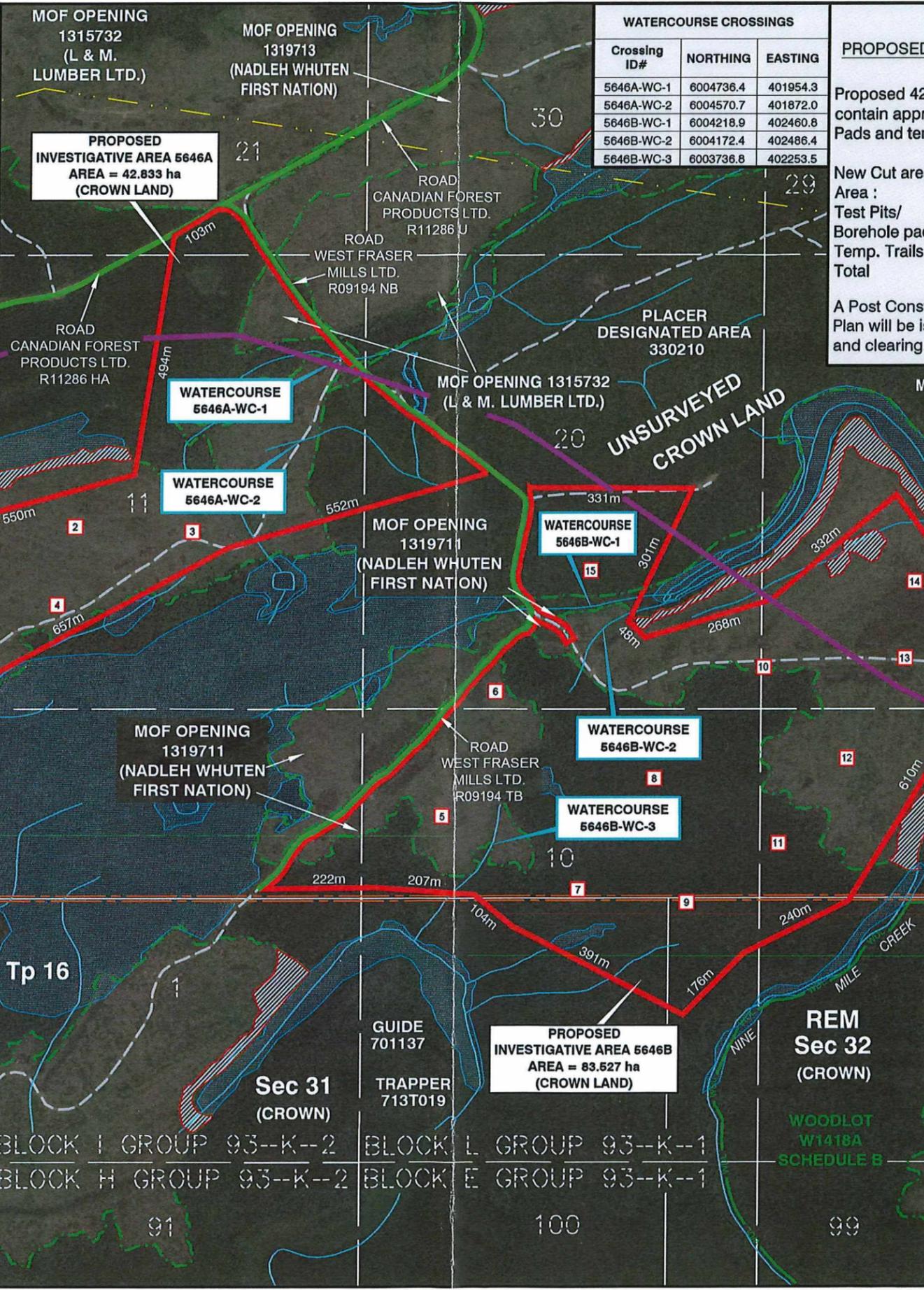
NOTES :

- 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.
- Potential watercourse crossings will only be used if required and are subject to in-field adjustments.

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

BCGS 93K . 018 Data sets sourced on this map are defined in the CGL Data Matrix
EPASS# 10048329

REVISION	DESCRIPTION
2	Issued for Use, December 16, 2014



WATERCOURSE CROSSINGS

Crossing ID#	NORTHING	EASTING
5646A-WC-1	6004736.4	401954.3
5646A-WC-2	6004570.7	401872.0
5646B-WC-1	6004218.9	402460.8
5646B-WC-2	6004172.4	402486.4
5646B-WC-3	6003736.8	402253.5

NOTE
PROPOSED BORROW PIT 5646A

Proposed 42.833 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 = 5.214 ha
- Total = 5.574 ha

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

NOTE
PROPOSED BORROW PIT 5646B

Proposed 83.527 ha Investigative Area to contain approximately 11 Test Pits/ Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

- Test Pits/ Borehole pads = 0.990 ha
- Temp. Trails = 13.816 ha
- Total = 14.806 ha

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

5646A
Caribou Range : None
Coal License : None
Community Forest : None
Guide / Outfitter : 701137
Mineral Tenure : None
Range Tenure : RAN077277
Trapper : 713T020
Tree Farm License : None
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None
5646B
Caribou Range : None
Coal License : None
Community Forest : None
Guide / Outfitter : 701137
Mineral Tenure : None
Range Tenure : RAN077277
Trapper : 713T020, 713T019
Tree Farm License : None
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None



COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

**GEOTECHNICAL INVESTIGATION PROGRAM
VANDERHOOF FOREST DISTRICT
BORROW PITS 5646A AND 5646B**

WITHIN

**UNITS 1, 11, 12 AND 21 BLOCK I, GROUP 93-K-2
UNITS 9, 10, 19 AND 20 BLOCK L, GROUP 93-K-1**

RANGE 5 COAST DISTRICT

Page 3 of 5
December 16, 2014

Route Reference: RevE1
Document No. CGW4703-MCSL-G-MP-397-003-Geotech_Borrow_Vanderhoof_Sketch_5646-Rev2

9641450

LEGEND :

- 1 Proposed 30 x 30 Test Pit/Borehole Pad
- Investigative Area
- Temp. 5.0 Trail
- Trail Buffer
- Existing Access
- Section Boundary
- Watercourse
- Wildlife Tree Retention Area
- PNG Grid Boundary
- Road
- Quarry Tenure
- Reserve/Notation
- Cutblock/Opening Areas
- R/W Boundary
- Industrial Reserve/Notation

Caribou Range : None
 Coal License : None
 Community Forest : None
 Guide / Outfitter : 701137
 Mineral Tenure : None
 Range Tenure : None
 Trapper : 713T024
 Tree Farm License : None
 Ungulate Winter Ranges : None
 Wildlife Habitat Areas : None
 Wildlife Tree Retention Area : Yes
 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 . 020 Data sets sourced on this map are defined in the CGL Data Matrix

EPASS# 10048329

REVISION	DESCRIPTION
2	Issued for Use, December 16, 2014



Segment No.	Begin		End		Segment Length (KM)
	Northing	Easting	Northing	Easting	
1	5998383	426303	5998317	426626	0.395

NOTE

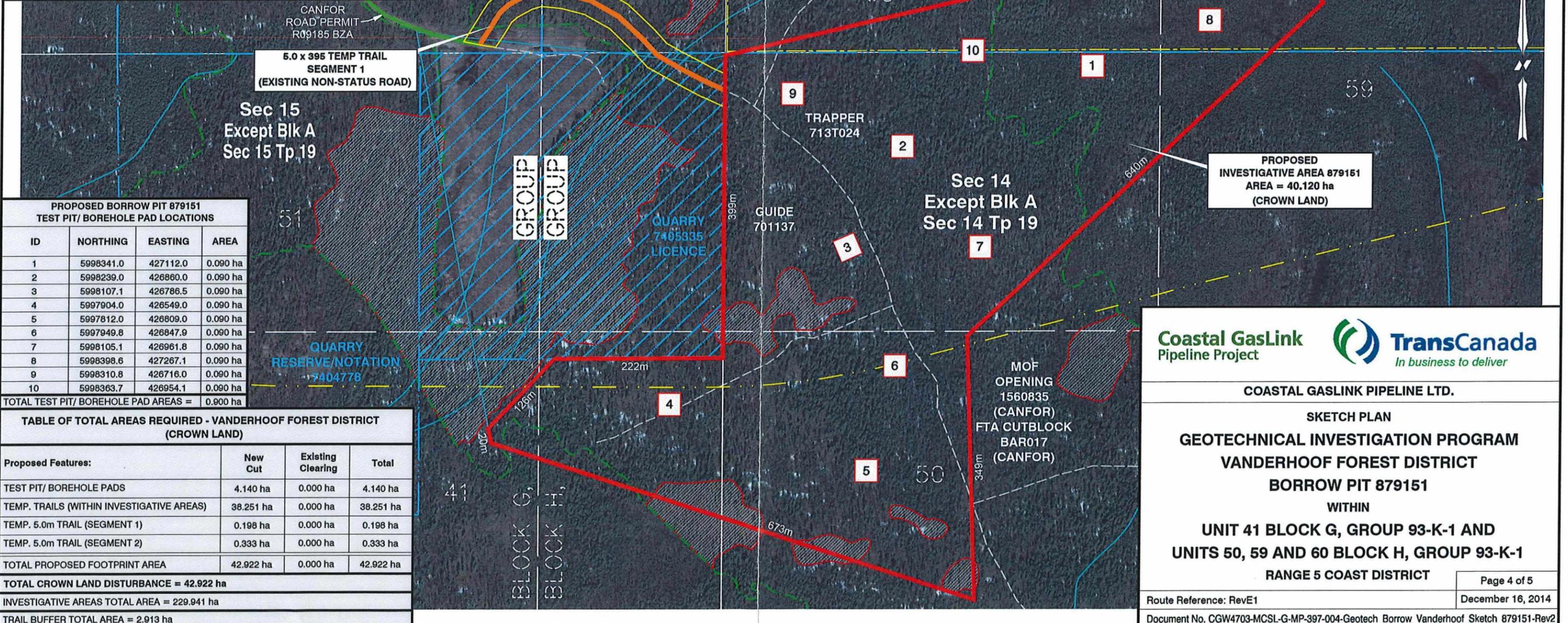
PROPOSED BORROW PIT 879151

Proposed 40.120 ha Investigative Area to contain approximately 10 Test Pits/Borehole Pads and temporary trails.

New Cut areas required within Investigative Area :

Test Pits/Borehole pads	= 0.900 ha
Temp. Trails	= 6.264 ha
Total	= 7.164 ha

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



COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM

VANDERHOOF FOREST DISTRICT

BORROW PIT 879151

WITHIN

UNIT 41 BLOCK G, GROUP 93-K-1 AND

UNITS 50, 59 AND 60 BLOCK H, GROUP 93-K-1

RANGE 5 COAST DISTRICT

Route Reference: RevE1
 December 16, 2014

Document No. CGW4703-MCSL-G-MP-397-004-Geotech_Borrow_Vanderhoof_Sketch_879151-Rev2

9641430

Caribou Range : None
 Coal License : None
 Community Forest : None
 Guide / Outfitter : 701167
 Mineral Tenure : None
 Range Tenure : RAN076735
 Trapper : 713T009
 Tree Farm License : None
 Ungulate Winter Ranges : None
 Wildlife Habitat Areas : None
 Wildlife Tree Retention Area : None
 Wood Lot : None

NOTE
PROPOSED BORROW PIT 5490
 Proposed 43.142 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 = 8.826 ha
 Total = 9.546 ha
 A Post Construction Plan and As Cleared Plan will be issued to show final locations and clearing.

LEGEND :

- 1 Proposed 30 x 30 Test Pit/Borehole Pad
- Investigative Area
- Coastal GasLink Proposed Route
- Existing Access
- Temp. 5.0 Trall
- Watercourse
- PNG Grid Boundary
- Range Tenure
- ALR Boundary
- Welllands
- R/W Boundary
- Road
- Section Boundary
- Cutblock/Opening Areas

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.
- Potential watercourse crossings will only be used if required and are subject to in-field adjustments.

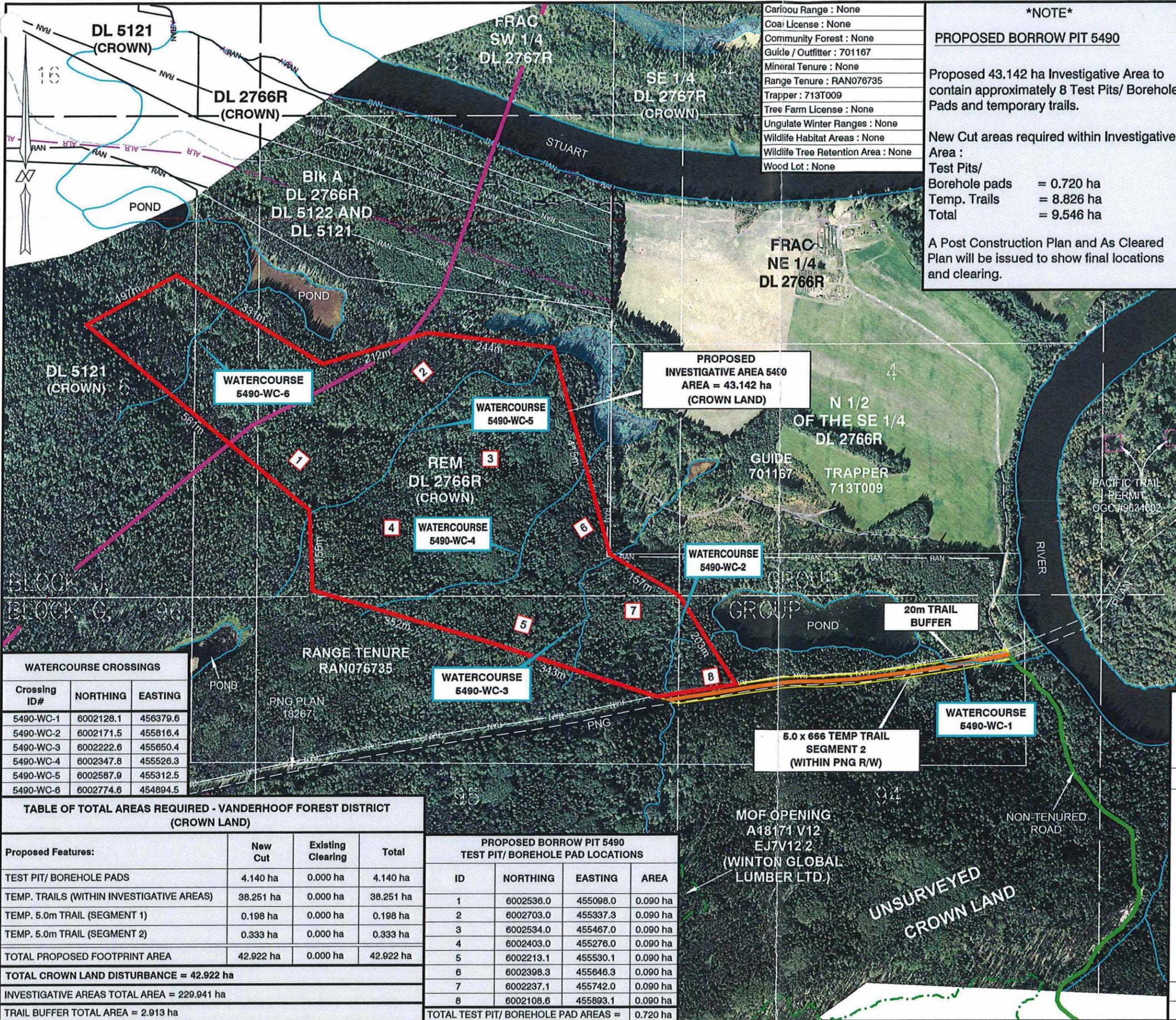
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BCGS 93J . 012 Data sets sourced on this map are defined in the CGL Data Matrix
 EPASS# 10048329

REVISION	DESCRIPTION
2	Issued for Use, December 16, 2014

SCALE 1:7500

Segment No.	Begin		End		Segment Length (KM)
	Northing	Easting	Northing	Easting	
2	6002145	456468	6002064	455808	0.666



WATERCOURSE CROSSINGS

Crossing ID#	NORTHING	EASTING
5490-WC-1	6002128.1	456379.6
5490-WC-2	6002171.5	455816.4
5490-WC-3	6002222.6	455650.4
5490-WC-4	6002347.8	455526.3
5490-WC-5	6002587.9	455312.5
5490-WC-6	6002774.6	454894.5

TABLE OF TOTAL AREAS REQUIRED - VANDERHOOF FOREST DISTRICT (CROWN LAND)

Proposed Features:	New Cut	Existing Clearing	Total
TEST PIT/ BOREHOLE PADS	4.140 ha	0.000 ha	4.140 ha
TEMP. TRAILS (WITHIN INVESTIGATIVE AREAS)	38.251 ha	0.000 ha	38.251 ha
TEMP. 5.0m TRAIL (SEGMENT 1)	0.198 ha	0.000 ha	0.198 ha
TEMP. 5.0m TRAIL (SEGMENT 2)	0.333 ha	0.000 ha	0.333 ha
TOTAL PROPOSED FOOTPRINT AREA	42.922 ha	0.000 ha	42.922 ha
TOTAL CROWN LAND DISTURBANCE = 42.922 ha			
INVESTIGATIVE AREAS TOTAL AREA = 229.941 ha			
TRAIL BUFFER TOTAL AREA = 2.913 ha			

PROPOSED BORROW PIT 5490 TEST PIT/ BOREHOLE PAD LOCATIONS

ID	NORTHING	EASTING	AREA
1	6002536.0	455098.0	0.090 ha
2	6002703.0	455337.3	0.090 ha
3	6002534.0	455467.0	0.090 ha
4	6002403.0	455276.0	0.090 ha
5	6002213.1	455530.1	0.090 ha
6	6002398.3	455646.3	0.090 ha
7	6002237.1	455742.0	0.090 ha
8	6002108.6	455893.1	0.090 ha
TOTAL TEST PIT/ BOREHOLE PAD AREAS = 0.720 ha			

Coastal GasLink Pipeline Project **TransCanada**
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SKETCH PLAN
GEOTECHNICAL INVESTIGATION PROGRAM
VANDERHOOF FOREST DISTRICT
BORROW PIT 5490
 WITHIN
UNITS 94 AND 95 BLOCK G, GROUP 93-J-4 AND
UNITS 4, 5 AND 6 BLOCK J, GROUP 93-J-4
CARIBOO DISTRICT

Route Reference: RevE1
 December 16, 2014
 Document No. CGW4703-MCSL-G-MP-397-005-Geotech_Borrow_Vanderhoof_Sketch_5490-Rev2

9641456