



OGC File: 9640312

September 4, 2014

Trans Mountain Pipeline ULC  
2700, 300 – 5<sup>th</sup> Avenue SW  
Calgary, Alberta T2P 5J2

Attention: Surface Land Administrator

Re: Investigative Permit- Section 14 over Crown Land, Thompson-Nicola Regional District within Units 75, 76 and 85, Block D, Group 92-H-15.

Date of Issuance: September 4, 2014  
Commission File No: 9640312  
Applicant File: P2-012-CW2

## PERMISSIONS

The Oil and Gas Commission (``Commisson``) hereby authorizes the holder of permit number 9640312, under section 14 of the Land Act, to allow Trans Mountain Pipeline ULC (the "permit holder") to occupy Crown land within the areas described as Proposed Borehole Pad Location (BH CW2-01, BH CW02-02, BH CW02-03 and BH CW02-04) in the attached sketch plan Document No: 201403\_MAP\_TERA\_PER\_00548\_REV2\_CW2, Revision 02, dated 2014/06/11 as submitted to the Commission in the permit application dated 2014/06/18 (hereinafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 944633, subject to conditions set out below.

## CONDITIONS

1. The permit holder may use and occupy the Site only for the purposes of investigating the site for potential oil and gas activities and related activities as defined in the Oil and Gas Activities Act.
2. The total disturbance within the investigative area must not exceed 0.36 ha.
3. The permit holder will indemnify the Province of British Columbia (the Province) and the Commission against all losses, damages, costs and liabilities arising out of any breach or non-performance of any condition or agreement set out in this Permit and any personal injury, death or property damage occurring within the Site, or happening by virtue of its occupation of the Site, and the amount of such losses, damages and costs shall be payable to the Province or the Commission immediately.
4. The permit holder will immediately effect, and keep in force while this Permit is in effect, insurance of an amount not less than \$1,000,000 protecting the Province, the Commission and the permit holder (without any rights of cross-claim or subrogation) against claims for personal injury, death, property damage, or third party or public liability claims arising from any accident or occurrence on the Site.

5. The permit holder will restore the site to the satisfaction of the Commission following expiration or cancellation of this Permit.
6. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the Site. The permit holder will not interfere with any person found on the Site who has a public right of access over the Site or is using the Site pursuant to a prior or subsequent Land Act disposition.
7. The rights granted by this permit are subject to all subsisting grants to or rights of any person made or acquired under the Coal Act, Forest Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Water Act or Wildlife Act, or any extension or renewal of the same, any prior dispositions made under the Land Act, and the exceptions and reservations of rights and interests under Section 50 of the Land Act.
8. The permit holder will acknowledge and agree that any interference with rights granted under this permit by virtue of the exercise or operation of the rights or interests set out in the Sections (6) or (7) above shall not constitute a breach of the Province's or the Commission's obligations under this permit and the permit holder will release and discharge the Province and/or the Commission from any claim for loss or damage arising directly or indirectly out of any such interference. The permit holder will also agree to pay all costs and expenses that arise out of the permit holder's interference with the rights or interests set out in Sections (6) or (7) and that the permit holder will not commence or maintain proceedings under Section 65 of the Land Act with respect to interference with the permit holder's rights arising out of exercise or operation of the rights set out in Sections (6) or (7).
9. The permit holder must pay to the Province, when due, the Fees to the address and in accordance with the instructions set out in the attached covering letter.
10. The permit holder must not assign or sub-tenure this Permit. The permit holder must not transfer this permit without the Commission's written consent, which consent may be granted or withheld at the Commission's sole discretion.
11. This permit expires two years from the date of issuance.
12. The permit holder must notify the Commission prior to commencing activities under this permit. Notification may be sent to [C&E@bcogc.ca](mailto:C&E@bcogc.ca).
13. An Archaeological Impact Assessment (AIA) is required for the proposed development area prior to any development activities taking place.

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

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

If artifacts, materials or things protected under section 13(2) of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under section 12 of the Heritage Conservation Act in respect of that artifact, feature, material or thing:

- a. immediately cease all work in the vicinity of the artifacts, features, materials or things;
  - b. immediately notify the Archaeology Branch and the Commission; and
  - c. refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance with the Heritage Conservation Act, endorsed by a qualified archaeologist, and approved by the Archaeology Branch.
14. Within 60 days of the completion of the clearing phase of the activity authorized, the permit holder must submit to the Commission a Post-construction plan as an ePASS shape file accurately identifying the locations of the overall disturbance within the Site.
15. The permit holder must abide by and comply with all applicable laws, bylaws, orders, directions, ordinances, and regulations of any government authority having jurisdiction in any way affecting its use or occupation of the Site, including, without limitation, the provisions of the Land Act and the provisions of this Permit.

### **CUTTING PERMIT AUTHORIZATION**

Pursuant to section 47.4 of the Forest Act, the Commission hereby issues Cutting Permit No. 2, under Master License to Cut number M02365, Cascades Forest District, to cut and remove timber from the areas of Crown land within the area within the Site subject to the following conditions:

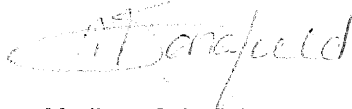
1. This Cutting Permit expires 2 years from the date of issuance of the Investigative Permit or the revised date should this permit be extended.
2. This Cutting Permit is subject to the terms and conditions in the Master Licence to Cut.
3. All harvested Crown timber must be marked with Timber Mark Number MTA 794.
4. The felling, bucking and utilization specifications in the Master License to Cut apply to this Cutting Permit.
5. Stumpage under this cutting permit is required to be paid to the Crown and will be determined with the Ministry of Forests Interior Appraisal Manual.
6. Timber that is stored in decks or piles must be marked with the correct timber mark before transportation, or at the end of every shift. The marking must be applied to one end of at least 10% of the timber pieces in each deck or pile using a hammer indentation or paint. Marking must be kept concurrent with decking.
7. In accordance with the Master Licence to Cut referenced above, "Within 60 days of completing operations on a cutting permit, the Licensee shall submit to the Commission a map showing all disturbances that have occurred pursuant to that Cutting Permit, at a scale of 1:20,000 or 1:50,000."
8. The utilization of merchantable timber is not mandatory for this permit.
9. Prior to harvesting, any clearing authorized by this Cutting Permit must be clearly defined on the ground by ribboning or blazing.
10. This permit authorizes a maximum total new cut area of 0.36 ha within the investigative area.

### **ADDITIONAL CONDITIONS**

1. The permit holder must notify the Ashcroft Indian band prior to commencement of activities.
2. The permit holder must notify the Boston Bar First Nation prior to commencement of activities.

3. The permit holder must notify the Okanagan Indian Band prior to commencement of activities.
4. The permit holder must notify the Spuzzum First Nation prior to commencement of activities.

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



Madison Schofield  
Natural Resource Officer

pc: Ashcroft Indian Band  
pc: Boston Bar First Nation  
pc: Okanagan Indian Band  
pc: Spuzzum First Nation  
pc: TERA Environmental



648000

Applicant Company:  
Trans Mountain Pipeline ULC.



**HDD INVESTIGATION  
TRANS MOUNTAIN EXPANSION PROJECT**

**CONSTRUCTION PLAN SHOWING:  
COLDWATER RIVER 2 (RK 970)**  
within: Units 75, 76 and 85 of Block D,  
Group 92-H-15  
at approximately: 49° 48' 53" N 120° 56'  
22" W  
Applicant File Number: P2-012-CW2  
BCGS: 92H.086  
NTS: 92H15SW

- Investigative Use Area Boundary
- Proposed Borehole Pad Location
- Trans Mountain Expansion Project Proposed Pipeline Corridor
- Highway
- Paved Road
- Resource Road
- Riparian Management Zone
- Riparian Reserve Zone
- Private Land Parcel
- Crown Land Parcel
- Trapper Boundary
- Old Growth Management Area (non-Legal)

Rev.	Revision	Date	By
0	Original plan created	15-Apr-14	SES
1	Area Table Revision	20-May-14	SES
2	Area Table Revision	11-Jun-14	SES

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Projection: NAD 1983 UTM Zone 10N. Existing TMPL: Preliminary Corridor: Provided by KMC, 2012; Transportation: BC FLNRO 2012 & Natural Resources Canada, 2012; Geopolitical Boundaries: Natural Resources Canada, 2003; IHS Inc., 2011; Hydrology: Geographic Base Branch, 2008; Parks and Protected Areas: BC FLNRO, 2008; BC Traps: BC Ministry of Environment, 2007; Agricultural Land Reserves: Agricultural Land Commission, 2013; PNG Grid: TERA Environmental Consultants, 2010; BCGS Grid: BC FLNRO 2003. OGMAs, Cutblocks: BC FLNRO 2013.

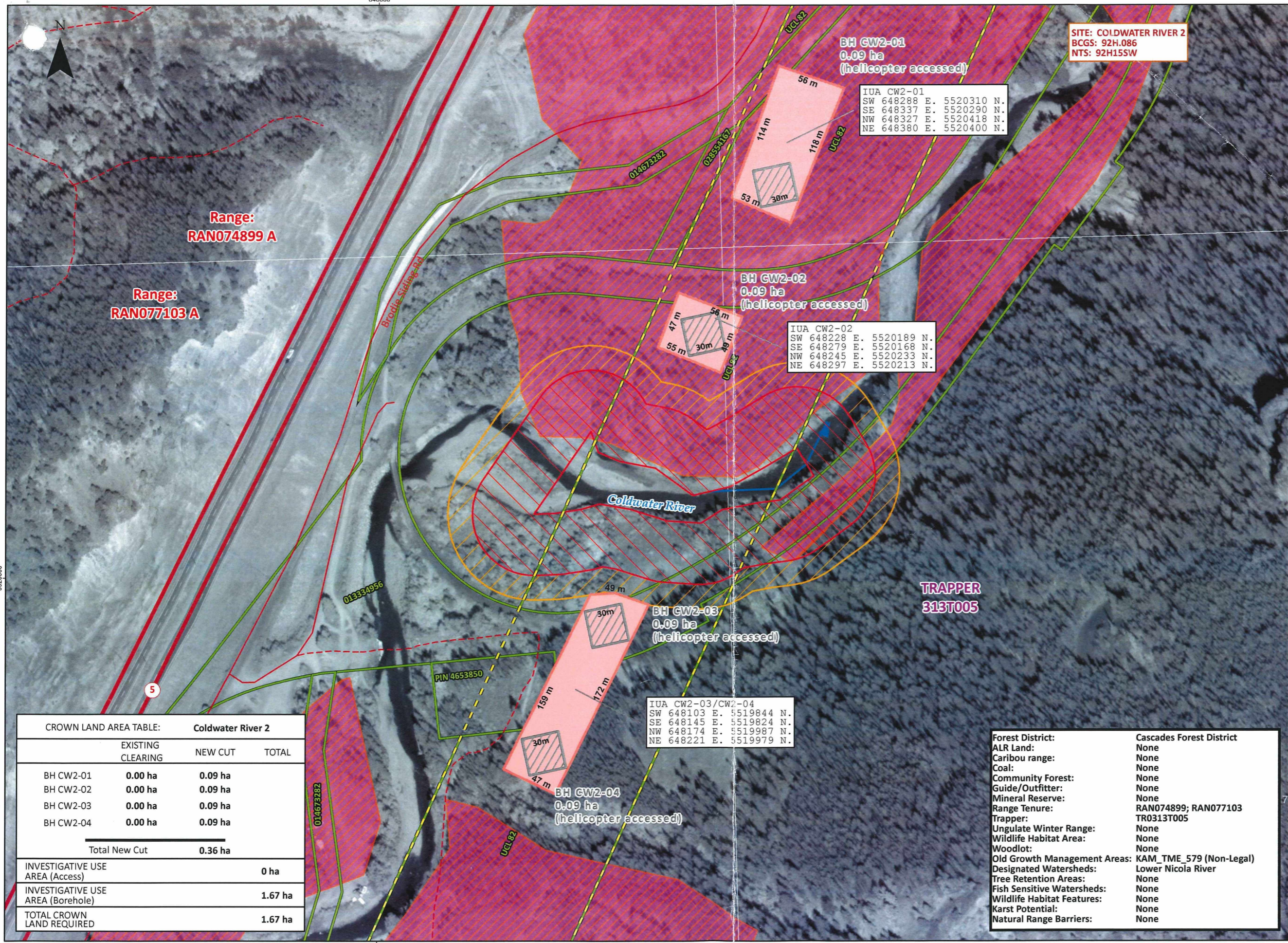
Notes:  
1. TERA Contact: Steven Bunney, Suite 1100, 815-8th Avenue SW, Calgary, AB (403-265-2885)  
2. Exact placement of work area within the investigative use area to be determined in field.



Although there is no reason to believe that there are any errors associated with the data used to generate this product or in the product itself, users of these data are advised that errors in the data may be present.

MAP NUMBER	PAGE	
201403_MAP_TERA_PER_00548_REV2_CW2	SHEET 1 OF 1	
DATE	TERA REF.	REVISION
12 Jun 2014	492532	2
SCALE	PAGE SIZE	DISCIPLINE
1:3,000	11x17	PER
DRAWN	CHECKED	DESIGN
SES	CS	TGG

SCALE: 1:3,000  
0 20 40 60 80 m  
ALL LOCATIONS APPROXIMATE



**BH CW2-01**  
0.09 ha  
(helicopter accessed)

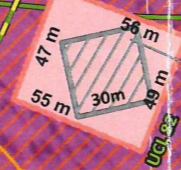
IUA CW2-01  
SW 648288 E. 5520310 N.  
SE 648337 E. 5520290 N.  
NW 648327 E. 5520418 N.  
NE 648380 E. 5520400 N.

**SITE: COLDWATER RIVER 2**  
BCGS: 92H.086  
NTS: 92H15SW



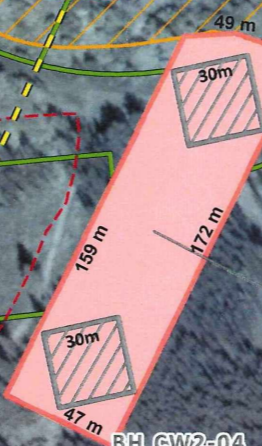
**BH CW2-02**  
0.09 ha  
(helicopter accessed)

IUA CW2-02  
SW 648228 E. 5520189 N.  
SE 648279 E. 5520168 N.  
NW 648245 E. 5520233 N.  
NE 648297 E. 5520213 N.



**BH CW2-03**  
0.09 ha  
(helicopter accessed)

IUA CW2-03/CW2-04  
SW 648103 E. 5519844 N.  
SE 648145 E. 5519824 N.  
NW 648174 E. 5519987 N.  
NE 648221 E. 5519979 N.



**BH CW2-04**  
0.09 ha  
(helicopter accessed)

**CROWN LAND AREA TABLE: Coldwater River 2**

	EXISTING CLEARING	NEW CUT	TOTAL
BH CW2-01	0.00 ha	0.09 ha	
BH CW2-02	0.00 ha	0.09 ha	
BH CW2-03	0.00 ha	0.09 ha	
BH CW2-04	0.00 ha	0.09 ha	
<b>Total New Cut</b>		<b>0.36 ha</b>	
<b>INVESTIGATIVE USE AREA (Access)</b>			<b>0 ha</b>
<b>INVESTIGATIVE USE AREA (Borehole)</b>			<b>1.67 ha</b>
<b>TOTAL CROWN LAND REQUIRED</b>			<b>1.67 ha</b>

**Forest District:** Cascades Forest District  
**ALR Land:** None  
**Caribou range:** None  
**Coal:** None  
**Community Forest:** None  
**Guide/Outfitter:** None  
**Mineral Reserve:** None  
**Range Tenure:** RAN074899; RAN077103  
**Trapper:** TR0313T005  
**Ungulate Winter Range:** None  
**Wildlife Habitat Area:** None  
**Woodlot:** None  
**Old Growth Management Areas:** KAM\_TME\_579 (Non-Legal)  
**Designated Watersheds:** Lower Nicola River  
**Tree Retention Areas:** None  
**Fish Sensitive Watersheds:** None  
**Wildlife Habitat Features:** None  
**Karst Potential:** None  
**Natural Range Barriers:** None

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