BC Geological Survey
Assessment Report
38460

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological, Geochemical & Petrographic **TOTAL COST:** $6800

AUTHOR(S): Helgi Sigurgeirson **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): n/a **YEAR OF WORK:** 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5747735

PROPERTY NAME: Tom Cat

CLAIM NAME(S) (on which the work was done): 1068885

COMMODITIES SOUGHT: Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNE166, 257, 167, 087, 089, 088, 086

MINING DIVISION: Nicola **NTS/BCGS:** 092H/087 & 088

LATITUDE: 49 ° 53 ' " **LONGITUDE:** 120 ° 35 ' " **(at centre of work)**

OWNER(S):
1) Sierra Iron Ore Corporation 2)

MAILING ADDRESS:
13236 Cliffstone Court
Lake Country, BC

OPERATOR(S) [who paid for the work]:
1) Sierra Iron Ore Corporation 2)

MAILING ADDRESS:
13236 Cliffstone Court
Lake Country, BC

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Nicola Group, Triassic, Central Belt, Andesite, Basalt, Lahar, flows, Diorite, Copper, chalcopyrite, Chalcocite, Porphyry

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 5908, 6761, 6821, 9491,14141, 20393, 20551, 22382, 28782, 37000, 37664

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TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	0.9 Ha at 1:1000 & 6 Ha at 1:2000		4000
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	2		600
Silt			
Rock	6		1000
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic	2		$1200
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$6800

Geological, Geochemical & Petrographic Assessment Report on the Tom Cat Property

Aspen Grove, British Columbia
Nicola Mining Division

Map Sheets 092H/087 & 088

UTM 672900 E, 5528 000 N (Zone 10)

Claim 1068885

Prepared for:
Sierra Iron Ore Corporation

Prepared by:
Helgi Sigurgeirson, P.Geo.
September 23, 2019

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1. Whole Rock Samples
2. Geochemical (rock) Samples
3. Soil

Introduction

Location, Access and Physiography

The property is about 25 km southeast of Merritt in south-central British Columbia (Figure 1). It is accessed by taking highway 5A southeast from Merritt to Bates Road, then east along Bates Road until 674290 E, where a logging road heads south onto the property. The property is covered by forest on the higher ground, with grassland at lower elevations to the west. Slopes are generally gentle to moderate. The property ranges in elevation from about 1285 m in the area of high ground in the central to northwest of the property, to about 1040 m in the north-south trending valley on the east side of the property.
Snow can be expected from November to April.

Figure 1 – Location Map

Property Definition

The Tom Cat Property consists of claim 1068885, shown in Figure 2. The claims are 100% held by Sierra Iron Ore Corporation. A Statement of Work (EV#5747735) was filed for the work described in this report on July 12, 2019. The claim covers 603.77 ha and is good to August 30, 2020. Six mineral claim crown grants are shown on the property (Figure 2). All but the southernmost Crown Grant (Edith, DL 1553) have reverted to the crown. The exact status of the Edith is unclear ("converted"), but Mineral Titles Online indicates that the ground is held by the crown. A private lot overlies a small part of the northwest corner of the property.

Previous Work

Old workings, including pits, trenches, short adits and shafts, are encountered frequently on the property. Some of these date back to at least the early 1900's.
Approximately 15 – 20 diamond drill holes were drilled on the property up to 1967, but are poorly documented. A hole drilled by Pyramid Mining Company Ltd. in 1965 assayed an average of 0.32% from select samples taken every 1.5 m over two 15.2 m sections in a 45.7 m interval (McKechnie, 1965). Scope Development Ltd. and Alscope Consolidated Ltd. conducted geologic mapping, geophysics, geochemistry and trenching over most of the showing areas (Carr, 1964).
Between 1975 and 1981? the Bluey claim group in the central part of the current property was held by Fred Gingell, who conducted various geochemical and geophysical surveys (Yorke-Hardy, 1976 and Morrison, 1981)
In 1978 geophysics and soil surveys were conducted on adjacent properties covering the north part of current property for Belmont Resources Ltd. (Mark, 1978a) and Silver Acorn Developments Ltd. (Mark, 1978b).
In 1985 Vanco Explorations Ltd. conducted geological mapping over the area west of the Tom Cat Prospect as well as soil and rock sampling(Lisle, 1985).
In 1990, geological mapping, over essentially the same area as that mapped by Vanco, was conducted by MineQuest Exploration Associates Ltd (Richards, 1990). Limited rock sampling was also done (Gourley, 1990).
In 2006, Bold Ventures Inc. Carried out an IP survey and soil sampling over most of the property (Kerr, 2007).
Bold Ventures Inc. drilled 6 holes in 2007, four of which were drilled on the current property and totalled 754.1 m. One of the holes drilled at the Tom Cat Prospect returned 0.54% Cu over 5.6 m (Garrow, 2010).
Sierra Iron Ore Corporation did geological mapping over the area of the Tom Cat Prospect in 2017 (Sigurgeirson, 2017), and geological mapping of the Portland Showing and prospecting in the area of the Bloo Showing in 2018 (Sigurgeirson, 2018).

The following Minfiles (locations shown on Figure 3) are on the property:
Tom Cat (092HNE086)
AM (092HNE166)
Bloo (092HNE257)
Bluey (092HNE167)
Boomerang (092HNE087)
Bunker Hill (092HNE089)
Portland (092HNE088)

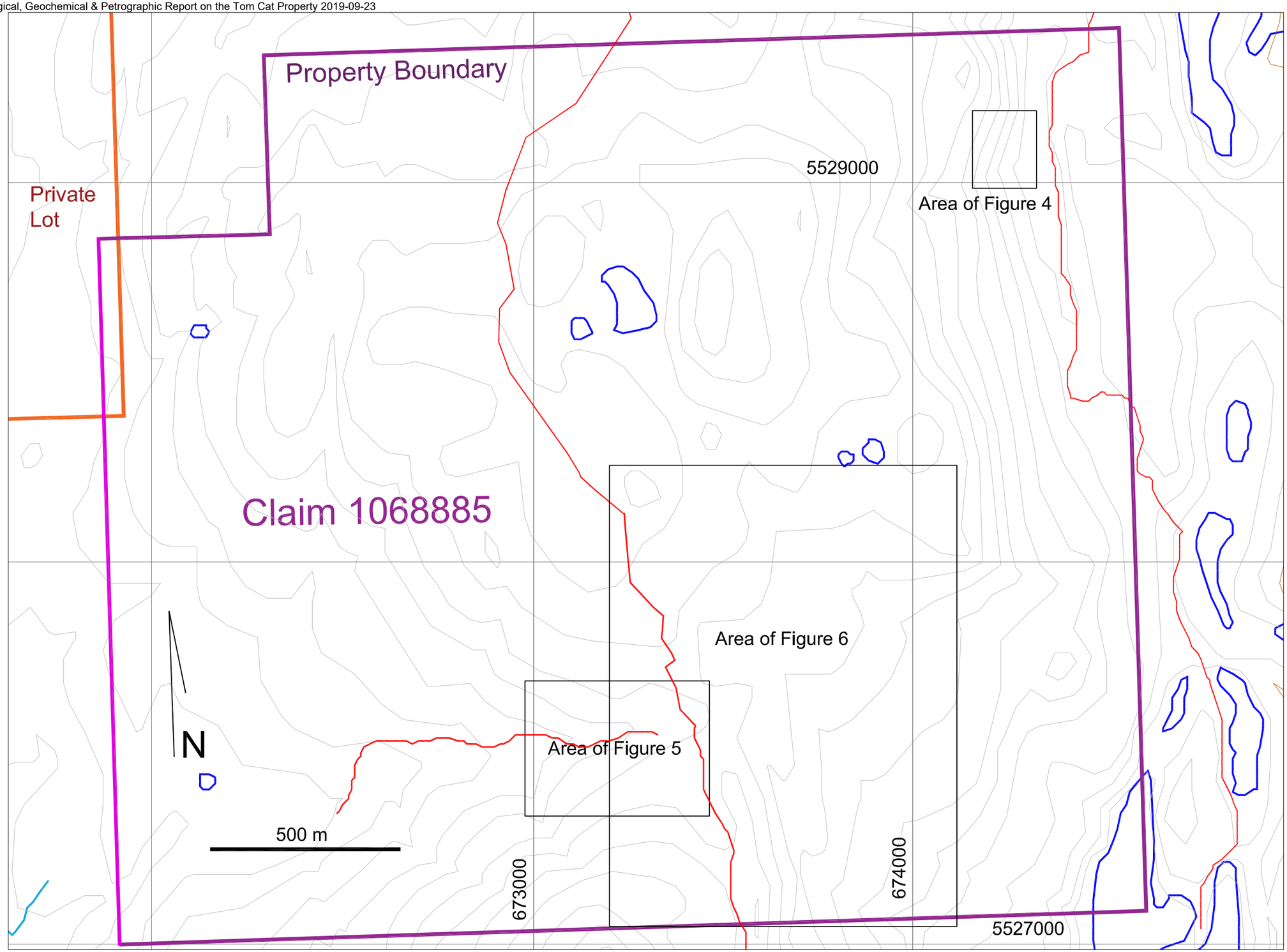

Figure 2: Claim Map

Scale = 1:10 000

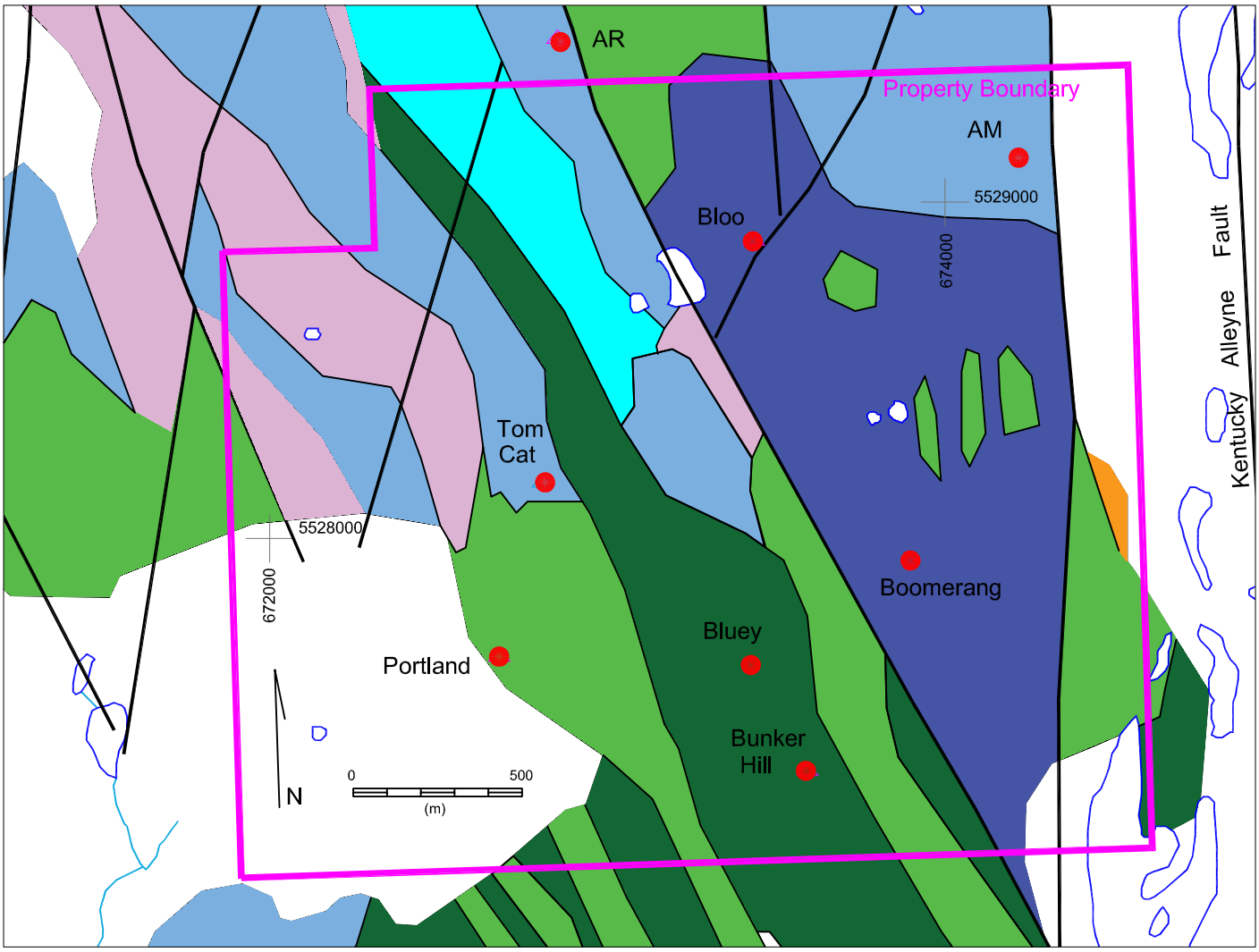

Figure 3 - Property Geology

Scale = 1:20 000

Legend

Triassic Nicola Group

- Reddish and green andesite and basalt flows
- Red volcanic breccia and lahar deposits. Mostly massive.
- Green volcanic breccia and lahar deposits. Mostly massive.
- Crystal and lithic tuffs, generally bedded
- Grey limestone and related calcareous rocks
- Siltstone, sandstone, and argillite. Minor gritstone and pebble conglomerate

Intrusives

- Diorite, quartz monzonite, monzonite, and diorite breccia

- Minfile
- Fault
- Contact

Work Program Summary

The purpose of the 2019 work program was to locate and produce a geologic map of the AM Showing, to locate the Bluey, Boomerang and Bunker Hill Showings, and to map the area of an IP anomaly reported in assessment report 28782 (Kerr, 2007). Three days of fieldwork were done from May 27 to 29, 2019. 0.9 hectares were mapped at a 1:1000 scale at the AM showing and 6 hectares were mapped at a 1:2000 scale between the Portland and Bluey Showings. Six rock samples, 2 soil samples and 2 petrographic samples were submitted for analysis.

Regional Geology

The property is underlain by volcanic and sedimentary rocks of the central belt of the Upper Triassic Nicola Group (Preto, 1979). Most Nicola rocks are massive, non-foliated, and weakly metamorphosed to sub-greenschist facies. Dioritic intrusives (possibly comagmatic with the volcanics) occur throughout the central belt.

Property Geology

The property geology (Figure 3) is after Preto (1979). The basemap is from MapPlace (2019).
The volcanic rocks on the property consist of andesite and basalt flows, red and green volcanic breccias and lahars, and bedded crystal and lithic tuffs. The sedimentary rocks consist of grey limestones and related calcareous rocks, siltstone, sandstone, argillite, and minor gritstone and pebble conglomerate. A diorite to quartz monzonite body dominates the east side of the property.
The north-south trending Summer Creek / Kentucky Lake Fault passes a few hundred meters to the east of the property (Figure 3), and marks the boundary between the central and eastern zones of the Nicola Group. Bedding in the area of the property is generally NNW striking and moderately to steeply east dipping.
Mineralization on the property commonly occurs as fracture coatings, disseminations and stringers of Chalcopyrite, chalcocite and rare bornite in shear zones, though the extents of the zones are generally poorly defined. Samples have been taken from a number of areas which assay up to several % Cu. Malachite staining is common in these areas. The mineralizations occurs in both the volcanics and the intrusives. Rare galena and native copper have also been reported. Magnetite, hematite, calcite, dolomite and epidote are associated with the mineralization.

Geological Mapping

The AM Showing area was mapped at a 1:1000 scale (Figure 4). The showing is immediately south of a large north trending cliff outcrop. A winze, a pit an an open cut were mapped within an area about 30 m across. The back of the winze was inaccessible, but malachite stained float with occasional chalcopyrite was found in the dump. Malachite stained fracture zones occur at several locations within the trench. They are up to 30 cm wide and are hosted by green basaltic-andesite conglomerate. Two of the fracture zones dip moderately to the SE and the third dips steeply to the NE.
Outcrop along the main slope break was clearly volcaniclastic (ie. conglomerate), but elsewhere lithological assignments were uncertain. Future mapping in this area should collect handsamples for slabbing as well as petrography.
Assessment report 6821 (Mark, 1978b) shows a shaft at approximately the location shown on Figure 4. This area was not examined carefully during this program.

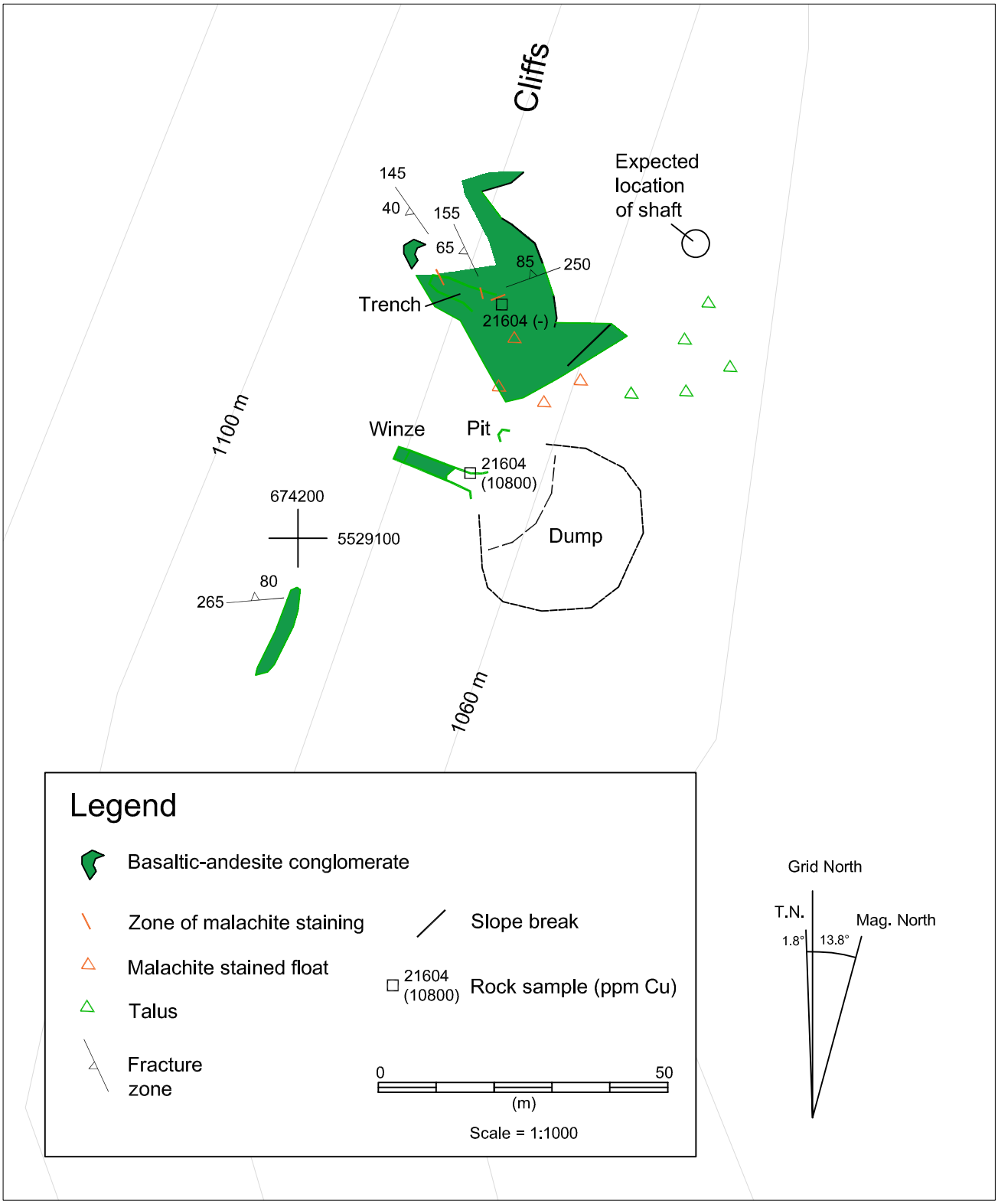

Figure 4 - AM Showing Map

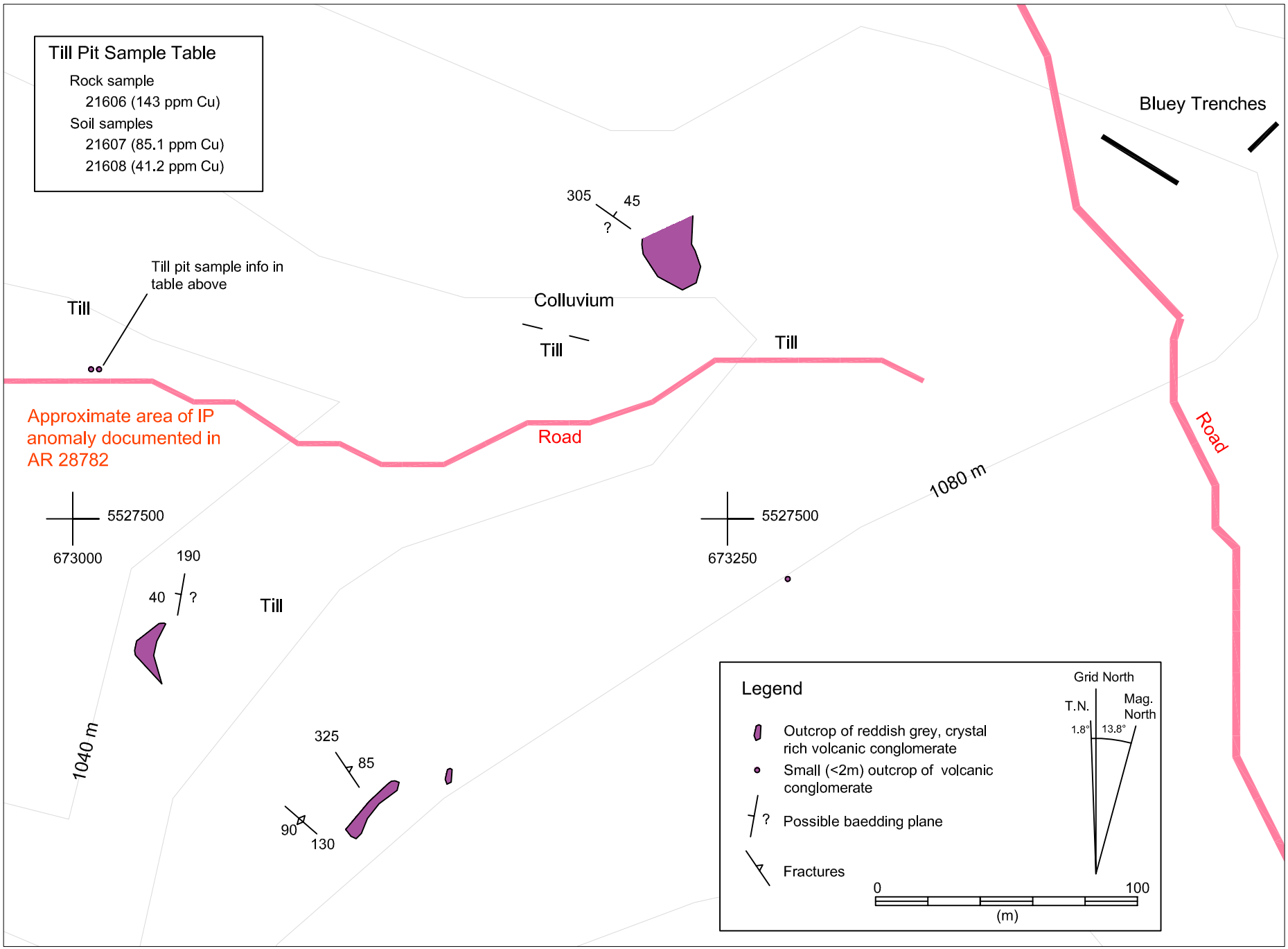

Figure 5: Portland -Bluey Map

Scale = 1:2000

The area of an IP anomaly reported in assessment report 28782 (Kerr, 2007) was mapped at a 1:2000 scale (Figure 5). The IP anomaly is shown as a broad NNW trending band between the Bluey and Portland showings. No significant alteration or mineralization was noted in an area of sparse outcrop. Variably crystal rich, usually reddish grey, volcanic conglomerates were the only rock type seen. Till was the dominant surficial material, especially to the NE and E.
The area of the Bluey and Boomerang Showings was not geologically mapped, but the locations of several trenches associated with these showing was plotted on the rock sample location map of the area (Figure 6). A pit with malachite staining was found in the approximate area indicated in assessment report 28782 (Kerr, 2007), but the Bunker Hill Showing described in the Minfile (from assessment Report 14141) should be in or near the area circled at the bottom edge of Figure 6. Another area of interest that should be examined is “Zone 3” which is described in assessment report 9491 (Morrison, 1981). The approximate area of this zone is shown near the top of Figure 6.

Petrography

Two samples were submitted for petrographic examination. The purpose of the sampling was to identify the host rock and type of alteration at the Bluey and Boomerang Showings. The locations of the samples is shown on Figure 6. Both were taken from outcrops featuring frequent malachite staining. The Bluey sample (28.3) is a hornblende diorite with moderate dolomite-limonite alteration, while the Boomerang sample (28.10) is a moderately epidote-dolomite-magnetite altered gabbro. The results are surprising, as the Boomerang is reportedly hosted by diorite and the Bluey is within a unit of mafic flows. Note that in handsample the Bluey sample is brown, appears granular, and is not obviously an intrusive. It may correspond to the “limy-andesitic volcanic sandstone” described in assessment report 9491 (Morrison, 1981).
The complete petrographic report can be found in Appendix I.

Geochemical Sampling

Lithogeochemical Sampling
3 samples were collected and submitted for lithogeochemical analysis. The main purpose of the sampling was to clarify the nature of the diorites reported by previous mappers.
Rock samples were collected at the locations shown on Figures 4 and 6. Samples were crushed to 75% less than 2 mm, 250 g were split off and pulverized to 85% passing 75 microns. The samples were subjected to a Lithium Metaborate fusion followed by ICP-AES and ICP-MS analysis for major and trace elements. Sample descriptions are given in Table 1. Appendix II contains the assay and QA/QC certificates.
The samples plotted in the alkaline field (Figure 7) on a TAS plot (LeMaitre, 1989). Sample 21602 plots as a trachyandesite which agrees with it's petrographic assignment as a diorite. Sample 21603 plots as a basaltic trachyandesite, which again agrees with it's petrographic assignment as a gabbro. On a Zr/T vs Nb/Y plot (Pearce, 1996) the samples plot in the basalt to andesite fields (Figure 8). Again, the diorite plots as and andesite and the gabbro a basalt. The remaining sample (21601), which is tentatively considered a tuff (or fine grained intrusive?), plots in the same area as the other samples, but less consistently. It plots as a trachyandesite on a TAS plot and a basalt on the Zr/T vs Nb/Y plot.

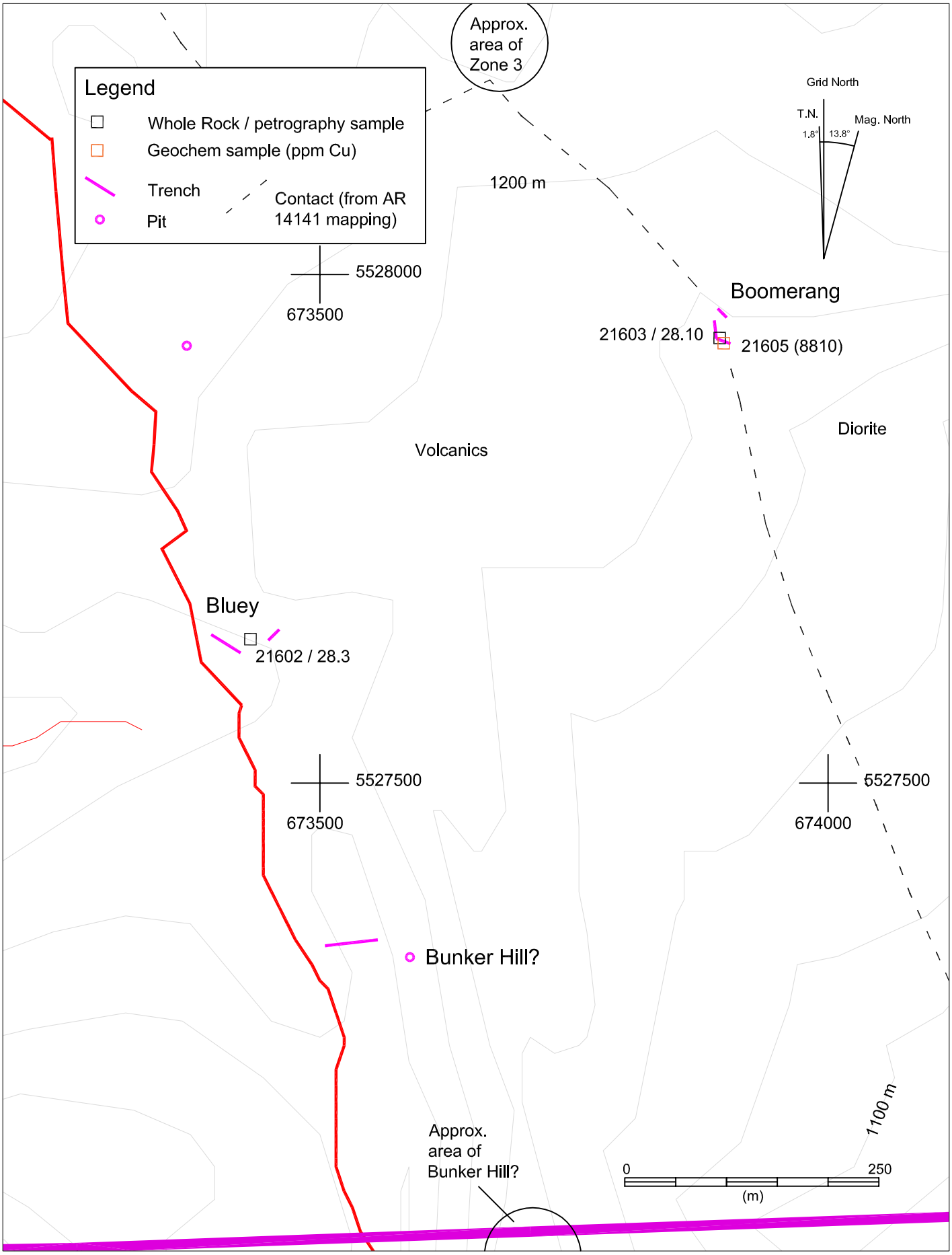

Figure 6 - Rock sample map (Bluey - Boomerang area)

Scale = 1:5000

Table 1 – Lithogeochemical Samples

ID	Easting	Northing	Lithology	Description	Petrography?
21601	674232	5529109	Tuff?	Medium grey, very fine grained crystal tuff? With 15% white, subhedral feldspar crystals. Hematite speckling.	no
21602	673433	5527641	Diorite	Medium orange-brown, indistinctly fine grained intrusive or tuff with about 5% anhedral white feldspar granules or crystals.	Sample 28.3
21603	673890	5527937	Gabbro	Dark Green, indistinctly fine grained GBR with about 50% white feldspar phenocrysts (<1 mm). Patchy epidote and pervasive chlorite alteration.	Sample 28.10

Table 2 – Geochemical Samples

ID	Easting	Northing	Lithology	Description	Cu ppm
21604	674236	5529140	Tuff?	Medium grey, fine grained epidote-chlorite-hematite altered tuff or intrusive. Moderately limonitic fractures with frequent Malachite patches.	10800
21605	673890	5527937	Gabbro	Dark Green, indistinctly fine grained GBR with about 50% white feldspar phenocrysts (<1 mm). Patchy epidote alteration and speckled hematite. Malchite common and associated with a dark grey mineral (chalcocite?).	8810
21606	673010	5527557	Tuff	Medium grey to reddish grey (fine hematite) very fine grained crystal tuff with 15% subangular white feldspar crystals (up to 1 mm). Limonitic fractures.	143

Table 3 - Soil Samples

ID	Easting	Northing	Type	Description	Cu ppm
21607	673010	5527557	soil	Moderately dense, matrix supported diamicton with polymictic, subangular volcanic clasts. Sandy silt matrix. Sample taken from pit at base of roadcut, just above bedrock at a depth of about 1 m below the original surface.	85.1
21608	673010	5527557	soil	Loose, light brown, subangular to round cobble supported diamicton with a silty matrix. Sample take from 30 cm below surface (same roadcut profile as sample #21607).	41.2

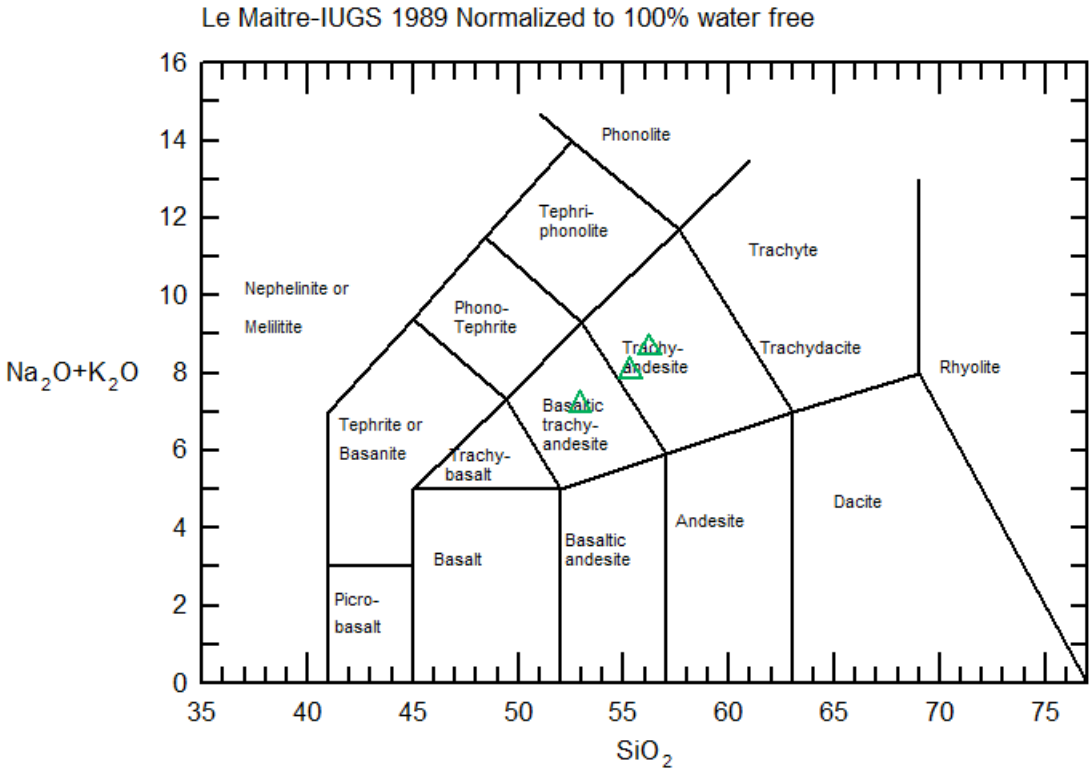

Figure 7: TAS plot of whole rock samples.

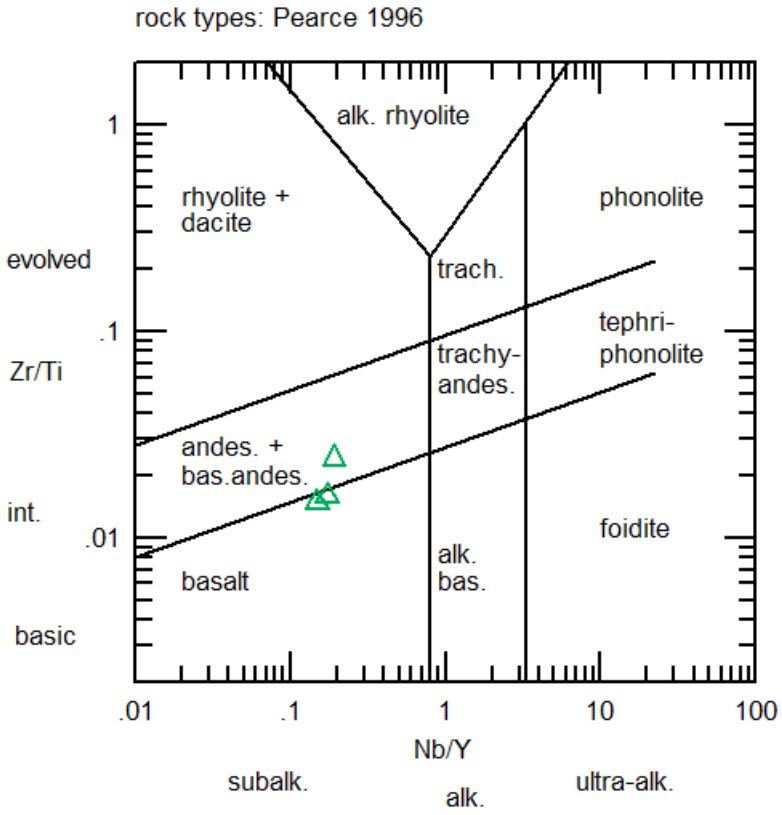

Figure 8: Zr/Ti vs Nb/Y plot of whole rock samples.

Geochemical Sampling

Three rock samples were submitted for geochemical analysis. Rock samples were collected from outcrop at the locations shown on Figures 4, 5 & 6. Samples were crushed to 75% less than 2 mm, 250 g were split off and pulverized to 85% passing 75 microns. Samples were subjected to fire assay for Au with ICP-AES finish. They were also subjected to aqua regia digestion and ICP-AES analysis. Sample descriptions are given in Table 2. Appendix II contains the assay and QA/QC certificates. Samples 21604 and 21605 returned values of 10800 and 8810 ppm Cu respectively. Both were from outcrops featuring significant malachite staining. The lack of an obvious primary copper mineral suggests that chalcocite is present in these samples.

Overburden Sampling

Two overburden samples were collected and submitted for analysis. One sample (21607) was collected from a pit at the base of a road cut, approximately one meter below the original surface. The second sample (21608) was taken about 30 cm below the crest of the road cut at about the depth of a regular soil sample. The purpose of the sampling to see if the lower (possible basal till) sample returned different results from the upper (possible ablation till) sample, which would suggest that regular soil sampling would be unreliable in this area.

The overburden samples were taken at the locations shown on Figure 5. The samples were screened to -80 mesh. A 25 gram split was then subjected to aqua regia digestion followed by ICP-MS analysis for 49 elements including Au. Sample descriptions are given in Table 3. Appendix II contains the assay and QA/QC certificates.

The possible basal till sample returned a value of 85.1 ppm Cu, which is over twice the value of the near surface sample (41.2 ppm Cu). This suggests that regular soil sampling may be sampling non-local material and therefore reporting false negatives. Opportunistic sampling of the till profile in roadcuts at various points on the property would be a way to test this theory.

Conclusions and Recommendations

Mineralization seen by the author on the property mainly occurs in narrow, northwest trending zones featuring malachite staining with chalcocite and lesser chalcopyrite as the primary copper minerals. Alteration (especially dolomite and epidote) is generally of limited extent, but appears strongest in the Bluey-Boomerang area.

The limited petrography done during this program suggests that past mapping of the intrusives should be considered provisional. As the occurence of (at least locally) mineralized diorite on the property is central to the exploration model (ie. an alkalic porphyry target) future work should include better defining the nature and extents of this rock on the property.

Detailed maps should be made of the Bluey, Boomerang, Bunker Hill and Zone 1 Showings, along with geochemical, lithogeochemical and petrographic sampling of these areas. Work should focus on determining with certainty the lithology and alteration types associated with mineralized intrusives on the property. The altered hornblende diorite at the Bluey showing is of particular interest if the exploration target is an alkalic porphyry.

References

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MapPlace (2019) BC Map UTM Zone 10 showing parts of Map Sheets 092H/087 & 088. *B.C. Ministry of Energy, Mines and Petroleum Resources* <http://webmap.em.gov.bc.ca/mapplace/minpot/BC_UTM.cfm?zone=10> (May 15, 2019).

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Statement of Qualifications

I certify the following:

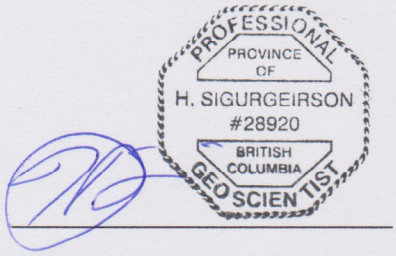
1. I graduated in 1995 from the University of British Columbia with a B.Sc. in the Geological Sciences.

2. I have worked in mining and mineral exploration continuously since graduation.

3. I have worked on VMS, porphyry, epithermal and mesothermal Au vein, anorthosite hosted Ti, nephrite and other exploration programs in Canada, Mexico and China. I have developed and operated 3 dimension stone quarries on the BC coast.

4. I am a professional geoscientist in the Association of Professional Engineers and Geoscientists of British Columbia, and have been a member in good standing (member #28920) since 2004.

5. I carried out the work program described herein and wrote this report.



H. Sigurgeirson, P.Geo

SEPT. 23, 2019

Date

This document represents an electronic version of the original hard copy document, sealed, signed and dated by Helgi Sigurgeirson, P.Geo and retained on file. The content of the electronically transmitted document can be confirmed by referring to the original hard copy and filed

Cost Statement

Consultant	Description	Rate	Amount	Total
H. Sigurgeirson, P.Geo.	Fieldwork: May 27–29, 2019	$530.00	3	$1,590.00
	Travel (half rate)	$265.00	2	$530.00
	Report	$1,500.00	1	$1,500.00
	Sample slabbing ($75/hr)	$70.00	1	$70.00
	Data compilation ($50/hr)	$50.00	3	$150.00
	Sample handling ($50/hr)	$50.00	2	$100.00
				$3,940.00
Vehicles				
Pickup truck	per kilometer (fuel included)	$0.60	950	$570.00
quad	per day	$120.00	3	$360.00
				$930.00
Expenses				
Accommodations	per day	$120.00	4	$480.00
Food/meals	per day	$60.00	5	$300.00
				$780.00
Sampling	6 rock and 2 soil samples			**$530.00**
Petrography	2 petrographic samples			**$620.00**
			Total =	**$6,800.00**

Appendix I

Petrographic Report

Report 190260

Helgi Sigurgeirson,
Saxifrage Geological Services, Ltd.,
47312 Schooner Way,
Pender Island, BC, V0N 2M2
Hardygranite@gmail.com
tel: 604-341-7092

July 2019

Samples: **28.3, 28.10**

Summary:

Sample 28.3 is of hornblende diorite that contains phenocrysts of plagioclase (altered slightly to dolomite-sericite-limonite) and less abundant ones of hornblende (altered completely to dolomite-plagioclase-[limonite-kaolinite]); these are set in a groundmass of finer grained plagioclase (altered slightly to moderately to sericite-limonite) with scattered patches of limonite (possibly secondary after sulphides) and minor euhedral grains of apatite. A set of parallel veins and veinlets is of dolomite-(quartz); bordering the largest veins, plagioclase was altered moderately to strongly to dolomite.

Sample 28.10 is of gabbro, that is dominated by plagioclase (altered moderately to patches of epidote), with accessory diopside (fresh to altered slightly to completely to epidote) and disseminated magnetite. Several replacement patches are of epidote or epidote-dolomite-chlorite-(magnetite). One patch is of coarse grained apatite-magnetite. The rock underwent patchy, moderate cataclastic deformation and granulation and deformed zones were replaced in part by massive, slightly feathery tremolite/actinolite.

Photographic Notes:

The scanned section shows the gross textural features of the sections; these features are seen much better on the digital image than on the printed image. For the photographs, sample numbers are shown in the upper left corner, photo numbers are shown in the lower left corner, and the letter in the lower right corner indicates the lighting conditions: incident light in crossed nicols = X. Locations of photographs are shown on the scanned section.

John G. Payne, Ph.D., P.Geol.
Tel: (604)-597-1080
email: jppayne@telus.net

Sample 28.3 **Hornblende Diorite**
Alteration: Dolomite-Limonite-(Sericite-Kaolinite)
Veins, Veinlets: Dolomite-(Quartz)

Phenocrysts of plagioclase (altered slightly to dolomite-sericite-limonite) and less abundant ones of hornblende (altered completely to dolomite-plagioclase-[limonite-kaolinite]) are set in a groundmass of finer grained plagioclase (altered slightly to moderately to sericite-limonite) with scattered patches of limonite (possibly secondary after sulphides) and minor euhedral grains of apatite. A set of parallel veins and veinlets is of dolomite-(quartz); bordering the largest veins, plagioclase was altered moderately to strongly to dolomite.

mineral	**percentage**	**main grain size range (mm)**
phenocrysts		
plagioclase	35-40%	0.7-1.5
hornblende(?)	1- 2	0.5-1; (a few 1.5-3 mm long)
groundmass		
plagioclase	45-50	0.2-0.5
semi-opaque	2- 3	dusty
apatite	minor	0.1-0.15 (a few up to 0.3 mm long)
replacement		
dolomite-plagioclase	4- 5	0.05-0.3 (do), 0.05-0.1 (pl)
veinlets		
1) dolomite-(quartz)	3- 4	0.05-0.15

Plagioclase forms unoriented subhedral prismatic phenocrysts that are intergrown with finer grained anhedral groundmass plagioclase. All are altered slightly to sericite and contain accessory disseminated diffuse spots (0.02-0.07 mm) of dark brown semi-opaque hematite/limonite.

Hornblende(?) forms a few subhedral to euhedral stubby prismatic phenocrysts that were altered completely to dolomite –plagioclase, with minor limonite along their margins.

Apatite forms disseminated, mainly stubby subhedral to euhedral prismatic grains.

Limonite also forms disseminated larger patches (0.1-0.3 mm) that probably are secondary after sulphides.

Dolomite with minor to moderately abundant plagioclase forms scattered replacement patches up to 2 mm across. Replacement plagioclase is free of limonite alteration spots.

Dolomite forms a set of mainly subparallel veins up to 0.4 mm wide and in veinlets from 0.02-0.05 mm wide. Bordering the veins, groundmass plagioclase was altered moderately to strongly to dolomite-(sericite-limonite).

Sample 28.10 **Diorite/Gabbro**
Alteration: Epidote-Magnetite-Apatite
Cataclastic Deformation, Tremolite/Actinolite Replacement

The original rock is dominated by plagioclase (altered moderately to patches of epidote), with accessory diopside (fresh to altered slightly to completely to epidote) and disseminated magnetite. Several replacement patches are of epidote or epidote-dolomite-chlorite-(magnetite). One patch is of coarse grained apatite-magnetite. The rock underwent patchy, moderate cataclastic deformation and granulation and deformed zones were replaced in part by massive, slightly feathery tremolite/actinolite.

mineral	**percentage**	**main grain size range (mm)**
plagioclase	40-45%	0.3-0.7
diopside	3- 4	0.3-0.5
magnetite	2- 3	0.05-0.15
replacement		
1) epidote	15-17	0.05-0.2
dolomite	3- 4	0.01-0.03
chlorite	2- 3	0.01-0.03
magnetite	3- 4	0.1-0.7
apatite	2- 3	0.5-3
2) tremolite/actinolite	17-20	0.02-0.03
veinlets		
1) epidote-(quartz)	0.7	0.05-0.15 (ep), 0.02-0.03 (qz)
2) calcite	0.7	0.05-0.1

In the least altered/replaced rock, plagioclase forms anhedral to subhedral prismatic grains that range from fresh to replaced slightly to moderately by epidote.

Diopside forms scattered anhedral to subhedral stubby prismatic grains that range from fresh to altered strongly to completely to epidote and/or tremolite/actinolite

Magnetite forms disseminated anhedral grains and clusters of a few grains.

Parts of the rock were slightly to moderately cataclastically deformed, producing slightly strained and slightly to moderately crushed grains; some of these areas were replaced slightly to strongly in about half the section (Zone A) by irregular patches of massive, slightly feathery, pale green tremolite/actinolite.

In a few large patches, the rock was replaced strongly by epidote with much less abundant dolomite (Zone B).

This zone contains a few patches of magnetite, one coarser grained zone is associated with a few coarse anhedral grains of apatite.

Adjacent to the coarse patch of apatite-magnetite is a replacement zone of epidote-dolomite with abundant interstitial chlorite (Zone C).

Epidote with minor quartz forms several discontinuous veinlets (0.05-0.08 mm wide).

Calcite forms a few veinlets 0.1-0.2 mm wide.

List of Photographs

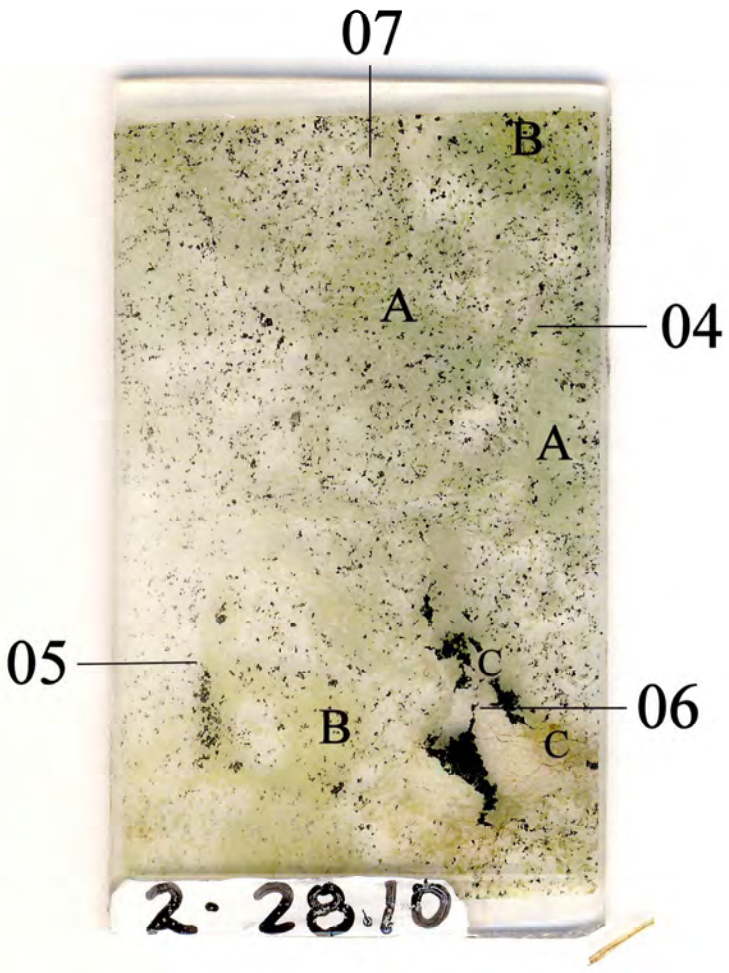
Photo	Section	Description
01	28.3	plagioclase phenocrysts (altered slightly to sericite with minor to accessory spots of limonite), one hornblende phenocryst (?; altered completely to dolomite-plagioclase-with irregular patches of limonite and one patch of cryptocrystalline kaolinite?); groundmass of anhedral plagioclase (altered slightly to sericite with accessory disseminated patches of limonite); two proximal euhedral grains of apatite; veinlet of dolomite with locally rims of limonite.
02	28.3	large hornblende(?) phenocryst (altered completely to dolomite-plagioclase with disseminated patches of limonite and one patch of kaolinite[?]); groundmass of plagioclase (altered slightly to moderately to sericite and spots of limonite) with minor disseminated subhedral to euhedral apatite grains; replacement patch of dolomite-plagioclase (free of limonite spots); minor dolomite veinlet.
03	28.3	one large plagioclase phenocryst and a few smaller ones in a matrix of finer grained plagioclase (altered moderately to strongly to dolomite-[limonite]); a patch of limonite/hematite; small replacement patch of dolomite-plagioclase (free of limonite spots); parallel veinlets of dolomite with minor to moderately abundant quartz.
04	28.10	plagioclase (large grain fractured and partly granulated; some smaller grains granulated) with accessory diopside (replaced moderately by epidote) and magnetite; replacement patches, probably guided by zones of cataclastic deformation are of extremely fine grained tremolite/actinolite.
05	28.10	to the left: undeformed plagioclase with scattered patches of magnetite and of diopside (altered completely to tremolite/actinolite); to the right: (Zone B) the rock was replaced strongly to completely by epidote with scattered grains of magnetite and relic patches of plagioclase.
06	28.10	replacement patch: lower left: coarse apatite with minor magnetite; upper right: (Zone C) very fine grained epidote-dolomite with abundant interstitial chlorite and a few, in part coarse patches of magnetite.
07	28.10	intergrowth of plagioclase and diopside (altered in a few smaller grains partly to epidote), accessory magnetite; irregular replacement patches of somewhat feathery tremolite/actinolite.

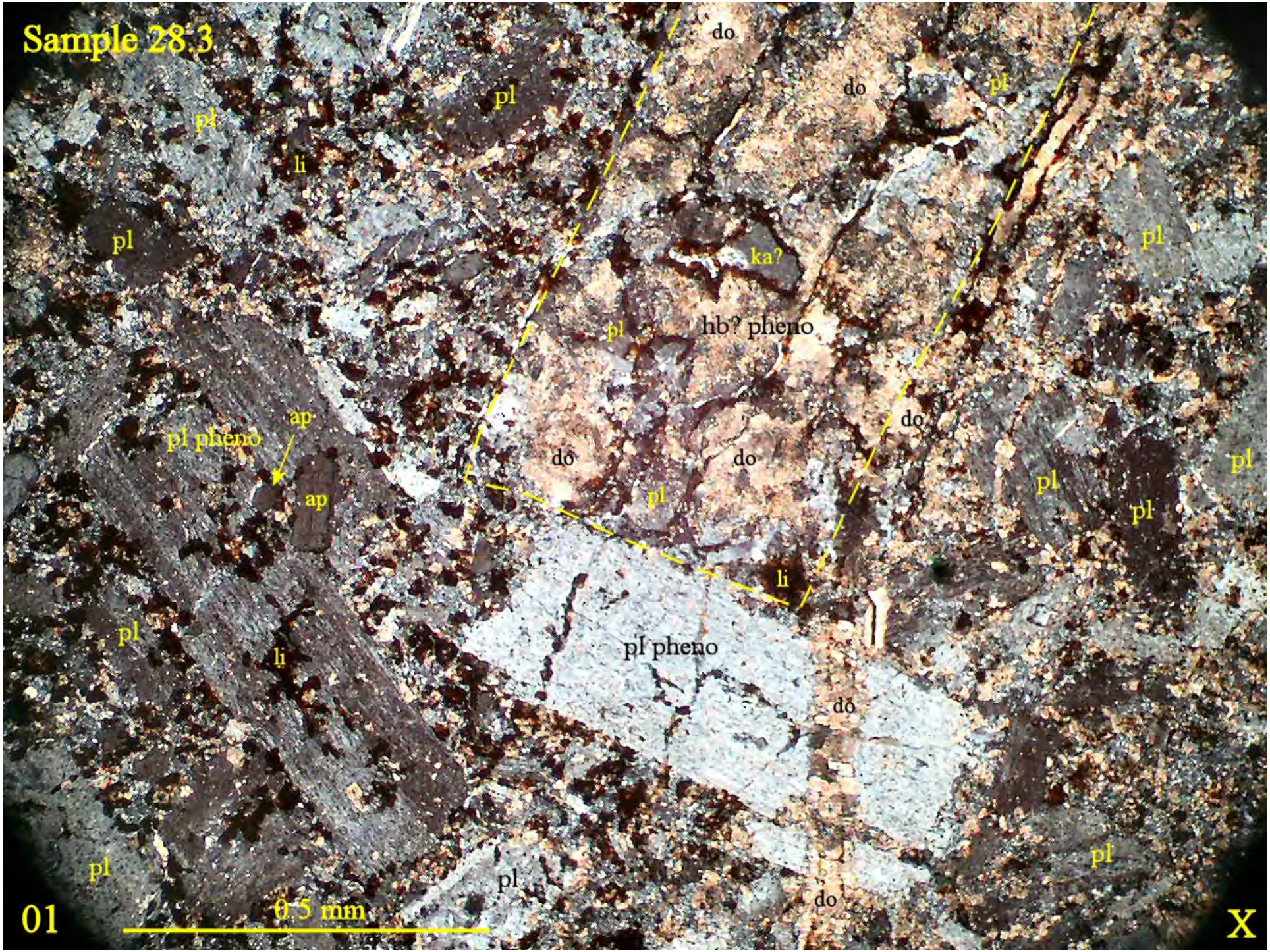
190260 saxifrage blocks

28.3

28.10

190260 saxifrage sections




Sample 28.3
do
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hb? pheno
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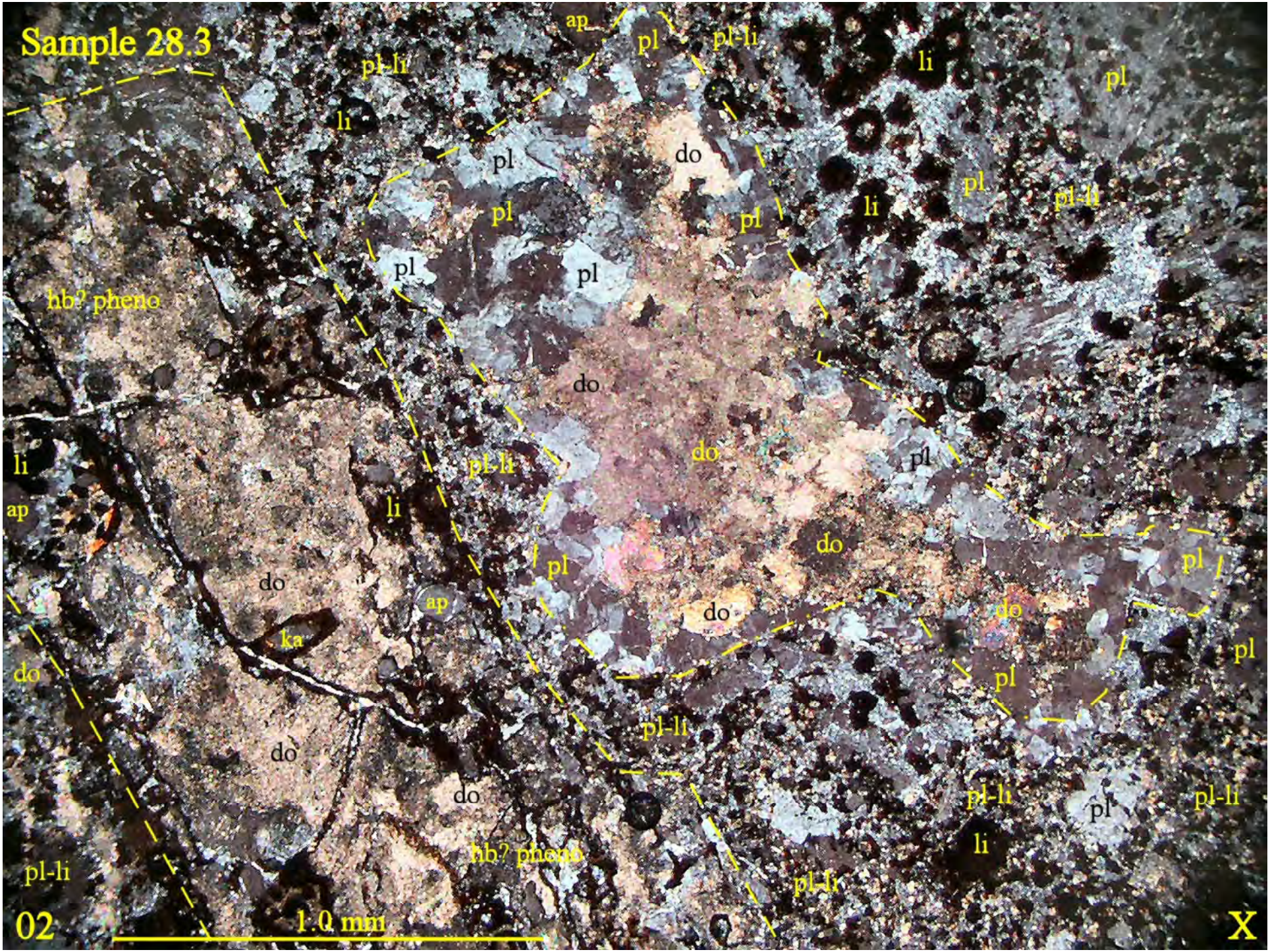
Sample 28.3
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pl
hb? pheno
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pl-li
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pl-li
li
hb? pheno
pl-li
pl-li
02
1.0 mm
X

Appendix II

Certificates of Analysis & QC Documents

1. Whole Rock Samples
2. Geochemical (rock) Samples
3. Soil

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 10-JUL-2019
This copy reported on
23-SEP-2019
Account: SAXGEO

VA19157839

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

HELGI SIGURGEIRSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-QC	Pulverizing QC Test
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
DISP-01	Disposal of all sample fractions

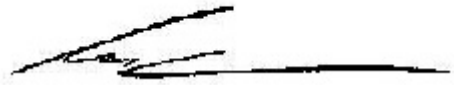
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
TOT-ICP06	Total Calculation for ICP06	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 10-JUL-2019
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CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	WEI-21	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Recvd Wt.	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb
	Units	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1	0.01	0.2
021601		0.98	1850	20.5	10	0.70	3.75	2.36	1.12	18.5	3.81	2.0	0.70	9.6	0.32	3.0
021602		1.00	271	29.2	20	1.20	3.26	1.90	1.14	23.9	3.68	2.2	0.61	14.4	0.30	3.3
021603		0.80	625	26.9	10	0.21	4.24	2.51	1.31	16.0	4.36	2.1	0.88	12.9	0.35	4.0

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	Analyte	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.1	0.03
021601		12.4	2.84	54.4	3.45	<1	1080	0.2	0.63	1.83	0.32	0.88	237	1	20.2	1.99
021602		15.6	3.79	34.0	3.93	1	468	0.2	0.54	3.47	0.27	1.66	413	1	17.3	1.85
021603		15.7	3.61	33.9	4.27	1	1095	0.2	0.69	1.79	0.34	1.46	306	<1	23.3	2.52

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CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-MS81	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Zr	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
021601		71	52.5	17.15	8.24	5.00	3.80	4.31	3.31	<0.002	0.80	0.16	0.48	0.12	0.19	3.48
021602		78	49.9	15.90	6.57	5.57	2.64	5.35	2.31	<0.002	0.54	0.17	0.48	0.05	0.03	10.20
021603		74	50.0	16.20	10.60	6.63	3.78	4.75	2.02	<0.002	0.78	0.31	0.49	0.13	0.07	3.39

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CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method Analyte Units LOD	TOT-ICP06 Total % 0.01
021601		99.54
021602		99.71
021603		99.15

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CERTIFICATE OF ANALYSIS VA19157839

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
CRU-31	DISP-01	LOG-21	ME-ICP06
ME-MS81	OA-GRA05	PUL-31	PUL-QC
SPL-21	TOT-ICP06	WEI-21	

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Finalized Date: 10-JUL-2019
This copy reported on
23-SEP-2019
Account: SAXGEO

VA19157839

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

HELGI SIGURGEIRSON

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LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
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ANALYTICAL PROCEDURES

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ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS

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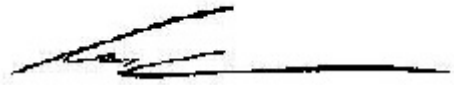
Signature:



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QC CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1	0.01	0.2	0.1
STANDARDS																
AMIS0167																
Target Range - Lower Bound																
Upper Bound																
AMIS0286																
Target Range - Lower Bound																
Upper Bound																
AMIS0304		2700	8470	90	0.43	131.0	33.3	142.0	40.3	327	26.2	16.20	3480	1.98	>2500	3900
Target Range - Lower Bound		2340	7280	70	0.35	119.0	30.6	135.0	47.8	309	25.0	16.20	3250	1.84	4670	3610
Upper Bound		2860	8900	120	0.45	145.5	37.4	165.0	58.7	377	31.0	19.80	3970	2.27	>2500	4410
AMIS0461																
Target Range - Lower Bound																
Upper Bound																
OREAS 146																
Target Range - Lower Bound																
Upper Bound																
OREAS-105		762	123.0	120	2.73	13.20	8.26	1.67	40.8	13.40	6.7	2.57	52.0	1.17	42.2	66.1
Target Range - Lower Bound		632	105.0	40	1.96	10.95	6.72	1.32	24.3	11.65	5.6	2.19	45.8	0.88	36.9	57.8
Upper Bound		774	129.0	80	2.42	13.45	8.28	1.68	29.9	14.35	7.2	2.69	56.2	1.10	45.6	70.8
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.5	0.1	<10	0.02	<0.05	<0.03	<0.03	0.1	<0.05	<0.2	<0.01	<0.1	<0.01	<0.2	<0.1
Target Range - Lower Bound		<0.5	<0.1	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.1	<0.01	<0.2	<0.1
Upper Bound		1.0	0.2	20	0.02	0.10	0.06	0.06	0.2	0.10	0.4	0.02	0.2	0.02	0.4	0.2
BLANK																
Target Range - Lower Bound																
Upper Bound																

***** See Appendix Page for comments regarding this certificate *****

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 10-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.1	0.03	2
STANDARDS																
AMIS0167																
Target Range - Lower Bound																
Upper Bound																
AMIS0286																
Target Range - Lower Bound																
Upper Bound																
AMIS0304		>1000	10.5	571	24	3470	12.1	32.3	443	3.19	21.8	389	5	408	15.65	1190
Target Range - Lower Bound		925	9.3	543	22	3060	11.1	30.8	406	3.14	21.6	331	3	369	15.25	1005
Upper Bound		>1000	11.8	664	29	3740	13.8	37.7	496	3.86	26.5	415	7	451	18.75	1230
AMIS0461																
Target Range - Lower Bound																
Upper Bound																
OREAS 146																
Target Range - Lower Bound																
Upper Bound																
OREAS-105		15.80	110.0	15.55	9	308	4.4	2.13	386	1.21	554	340	3	69.7	7.90	253
Target Range - Lower Bound		14.35	94.8	13.30	8	85.3	4.3	1.95	332	1.02	479	19	<1	58.3	6.54	208
Upper Bound		17.65	116.5	16.30	13	104.5	5.5	2.41	406	1.26	585	43	5	71.5	8.06	259
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.03	<0.2	<0.03	<1	0.1	<0.1	<0.01	<0.05	0.01	<0.05	<5	<1	<0.1	<0.03	3
Target Range - Lower Bound		<0.03	<0.2	<0.03	<1	<0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<1	<0.1	<0.03	<2
Upper Bound		0.06	0.4	0.06	2	0.2	0.2	0.02	0.10	0.02	0.10	10	2	0.2	0.06	4
BLANK																
Target Range - Lower Bound																
Upper Bound																

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www.alsglobal.com/geochemistry

To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 10-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
STANDARDS															
AMIS0167		94.3	2.43	3.34	0.13	0.24	0.08	0.50	0.059	0.15	0.02	0.02	<0.01	0.01	
Target Range - Lower Bound		89.6	2.29	3.28	0.10	0.21	0.06	0.45	0.049	0.12	<0.01	<0.01	<0.01	<0.01	
Upper Bound		93.3	2.55	3.62	0.16	0.27	0.12	0.55	0.067	0.18	0.04	0.05	0.02	0.02	
AMIS0286															7.71
Target Range - Lower Bound															7.25
Upper Bound															8.03
AMIS0304															
Target Range - Lower Bound															
Upper Bound															
AMIS0461															39.0
Target Range - Lower Bound															36.9
Upper Bound															40.9
OREAS 146		20.5	2.99	28.1	17.35	6.97	0.31	1.30	0.026	1.41	2.47	0.55	0.39	1.54	
Target Range - Lower Bound		19.50	2.82	27.5	16.75	6.59	0.26	1.19	0.017	1.35	2.30	0.49	0.33	1.39	
Upper Bound		20.7	3.12	29.1	17.85	7.15	0.34	1.37	0.031	1.53	2.56	0.59	0.41	1.59	
OREAS-105															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	
Target Range - Lower Bound		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	
Upper Bound		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02	0.02	0.02	0.02	0.02	
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															0.02
Target Range - Lower Bound															<0.01
Upper Bound															0.02

***** See Appendix Page for comments regarding this certificate *****

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PENDER ISLAND BC V0N 2M2

Finalized Date: 10-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La	Lu	Nb	Nd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.1	0.01	0.2	0.1
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		66.8	4.0	70	0.42	1.08	0.67	0.34	14.8	0.83	0.4	0.22	1.8	0.10	0.3	2.3
DUP		76.5	4.7	80	0.48	1.14	0.79	0.32	15.8	0.97	0.5	0.25	2.2	0.12	0.3	2.7
Target Range - Lower Bound		67.6	4.0	60	0.42	1.00	0.66	0.28	14.4	0.81	<0.2	0.21	1.8	0.09	<0.2	2.3
Upper Bound		75.7	4.7	90	0.48	1.22	0.80	0.38	16.2	1.00	0.7	0.26	2.2	0.13	0.4	2.7

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QC CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y	Yb	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.1	0.03	2
DUPLICATES																
ORIGINAL		0.54	4.9	0.64	<1	195.0	0.1	0.15	0.18	0.09	0.05	310	<1	6.0	0.61	13
DUP		0.62	5.5	0.80	<1	233	0.1	0.16	0.22	0.11	0.05	343	<1	6.8	0.79	14
Target Range - Lower Bound		0.52	4.7	0.65	<1	203	<0.1	0.14	0.14	0.09	<0.05	305	<1	6.0	0.64	11
Upper Bound		0.64	5.7	0.79	2	225	0.2	0.17	0.26	0.12	0.10	348	2	6.8	0.77	16

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Finalized Date: 10-JUL-2019
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QC CERTIFICATE OF ANALYSIS VA19157839

Sample Description	Method	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOD	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
DUPLICATES															
ORIGINAL															2.37
DUP															2.30
Target Range - Lower Bound															2.27
Upper Bound															2.40
ORIGINAL		50.8	15.55	11.35	11.70	7.86	2.04	0.23	0.011	0.43	0.17	0.01	0.03	0.01	
DUP		49.5	15.20	11.10	11.30	7.69	2.00	0.23	0.010	0.41	0.16	0.01	0.03	0.01	
Target Range - Lower Bound		48.9	15.00	10.95	11.20	7.57	1.96	0.21	0.008	0.40	0.15	<0.01	0.02	<0.01	
Upper Bound		51.4	15.75	11.50	11.80	7.98	2.08	0.25	0.013	0.44	0.18	0.02	0.04	0.02	

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PENDER ISLAND BC V0N 2M2

Finalized Date: 10-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157839

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
CRU-31	DISP-01	LOG-21	ME-ICP06
ME-MS81	OA-GRA05	PUL-31	PUL-QC
SPL-21	TOT-ICP06	WEI-21	

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
This copy reported on
23-SEP-2019
Account: SAXGEO

VA19157842

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

HELGI SIGURGEIRSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
DISP-01	Disposal of all sample fractions
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

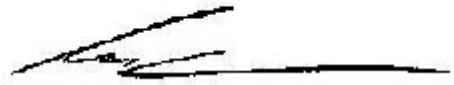
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41a	High Grade Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50
021604		1.28	0.007	6	1.33	10	110	<5	<10	1.66	<5	9	<5	10800	2.02	<50
021605		0.98	2.24	4	2.53	10	350	<5	10	2.52	<5	33	8	8810	6.94	<50
021606		0.44	0.006	<1	2.42	30	160	<5	<10	2.59	<5	20	15	143	6.00	<50

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47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	5	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100
021604		<5	0.49	<50	0.28	300	<5	<0.05	<5	2360	10	0.53	<10	12	118	<100
021605		<5	0.05	<50	1.89	1450	<5	<0.05	10	2080	<10	0.11	<10	9	357	<100
021606		<5	0.18	<50	1.11	1050	<5	0.13	9	2100	10	<0.05	<10	15	165	<100

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PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	50	50	5	50	10
021604		0.56	<50	<50	146	<50	50
021605		0.26	<50	<50	220	<50	140
021606		0.38	<50	<50	260	<50	100

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Finalized Date: 16-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157842

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	BAG-01	CRU-31	DISP-01
LOG-21	ME-ICP41a	PUL-32	PUL-QC
SPL-21	WEI-21		

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PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
This copy reported on
23-SEP-2019
Account: SAXGEO

VA19157842

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

HELGI SIGURGEIRSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
DISP-01	Disposal of all sample fractions
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

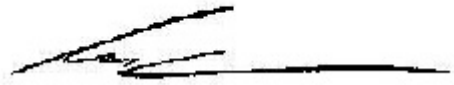
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41a	High Grade Aqua Regia ICP-AES	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 16-JUL-2019
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QC CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	Au-ICP21	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
STANDARDS																
GBM903-13			25	0.78	350	<50	<5	<10	0.79	8	47	77	29700	4.10	<50	<5
Target Range - Lower Bound			21	0.67	290	<50	<5	<10	0.66	<5	37	65	27500	3.63	<50	<5
Upper Bound			27	0.91	350	100	10	20	0.90	17	59	88	30400	4.29	100	10
OREAS 602			121	0.77	710	6340	<5	60	0.54	27	9	31	5260	2.17	<50	<5
Target Range - Lower Bound			109	0.66	590	5560	<5	40	0.41	15	<5	20	4910	1.97	<50	<5
Upper Bound			127	0.90	700	6520	10	80	0.64	36	20	41	5430	2.37	110	11
OREAS 684		0.253														
Target Range - Lower Bound																
Upper Bound																
OREAS-218		0.534														
Target Range - Lower Bound		0.498														
Upper Bound		0.564														
PK2		4.91														
Target Range - Lower Bound		4.50														
Upper Bound		5.07														
BLANKS																
BLANK		<0.001														
Target Range - Lower Bound		<0.001														
Upper Bound		0.002														
BLANK			<1	<0.05	<10	<50	<5	<10	<0.05	<5	<5	<5	12	<0.05	<50	<5
Target Range - Lower Bound			<1	<0.05	<10	<50	<5	<10	<0.05	<5	<5	<5	<5	<0.05	<50	<5
Upper Bound			2	0.10	20	100	10	20	0.10	10	10	10	10	0.10	100	10
DUPLICATES																
ORIGINAL		0.046														
DUP		0.143														
Target Range - Lower Bound		0.089														
Upper Bound		0.100														

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PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100	0.05
STANDARDS																
GBM903-13		0.20	<50	0.59	230	352	0.07	24700	120	21800	2.57	<10	<5	12	<100	0.05
Target Range - Lower Bound		0.07	<50	0.46	140	316	<0.05	22600	<50	19950	2.23	<10	<5	<5	<100	<0.05
Upper Bound		0.28	100	0.68	270	374	0.18	26100	230	23000	2.67	30	16	20	200	0.14
OREAS 602		0.12	<50	0.12	220	<5	<0.05	61	260	900	2.32	80	<5	87	<100	<0.05
Target Range - Lower Bound		<0.05	<50	<0.05	160	<5	<0.05	50	140	790	1.83	40	<5	79	<100	<0.05
Upper Bound		0.20	110	0.21	280	14	0.13	72	350	930	2.21	80	11	103	200	0.11
OREAS 684																
Target Range - Lower Bound																
Upper Bound																
OREAS-218																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100	<0.05
Target Range - Lower Bound		<0.05	<50	<0.05	<30	<5	<0.05	<5	<50	<10	<0.05	<10	<5	<5	<100	<0.05
Upper Bound		0.10	100	0.10	60	10	0.10	10	100	20	0.10	20	10	10	200	0.10
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

***** See Appendix Page for comments regarding this certificate *****

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157842

Sample Description / Method / Analyte / Units / LOD	ME-ICP41a Tl ppm 50	ME-ICP41a U ppm 50	ME-ICP41a V ppm 5	ME-ICP41a W ppm 50	ME-ICP41a Zn ppm 10
STANDARDS					
GBM903-13	<50	<50	29	<50	9450
Target Range - Lower Bound	<50	<50	17	<50	8670
Upper Bound	100	100	38	110	10000
OREAS 602	<50	<50	11	<50	4300
Target Range - Lower Bound	<50	<50	<5	<50	3790
Upper Bound	100	100	21	100	4390
OREAS 684					
Target Range - Lower Bound					
Upper Bound					
OREAS-218					
Target Range - Lower Bound					
Upper Bound					
PK2					
Target Range - Lower Bound					
Upper Bound					
BLANKS					
BLANK					
Target Range - Lower Bound					
Upper Bound					
BLANK	<50	<50	<5	<50	<10
Target Range - Lower Bound	<50	<50	<5	<50	<10
Upper Bound	100	100	10	100	20
DUPLICATES					
ORIGINAL					
DUP					
Target Range - Lower Bound					
Upper Bound					

***** See Appendix Page for comments regarding this certificate *****

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47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	Au-ICP21	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.001	1	0.05	10	50	5	10	0.05	5	5	5	5	0.05	50	5
DUPLICATES																
ORIGINAL		0.069														
DUP		0.122														
Target Range - Lower Bound		0.090														
Upper Bound		0.101														
ORIGINAL		0.053														
DUP		0.057														
Target Range - Lower Bound		0.051														
Upper Bound		0.059														
ORIGINAL			39	0.08	2830	80	<5	480	0.14	30	104	97	46500	41.0	<50	6
DUP			37	0.07	2660	90	<5	470	0.14	28	98	92	44500	39.3	<50	<5
Target Range - Lower Bound			36	<0.05	2640	<50	<5	450	0.09	23	92	86	44400	38.7	<50	<5
Upper Bound			40	0.10	2850	100	10	500	0.19	35	110	103	46600	41.6	100	10

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Finalized Date: 16-JUL-2019
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QC CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.05	50	0.05	30	5	0.05	5	50	10	0.05	10	5	5	100	0.05
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		<0.05	<50	0.06	140	18	<0.05	12	<50	3410	>10.0	240	<5	7	<100	<0.05
DUP		<0.05	<50	0.05	140	17	<0.05	<5	<50	3200	>10.0	230	<5	5	<100	<0.05
Target Range - Lower Bound		<0.05	<50	<0.05	110	12	<0.05	<5	<50	3180	9.60	220	<5	<5	<100	<0.05
Upper Bound		0.10	100	0.10	170	23	0.10	10	100	3430	10.00	250	10	10	200	0.10

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Finalized Date: 16-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157842

Sample Description	Method	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a	ME-ICP41a
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	50	50	5	50	10
DUPLICATES						
ORIGINAL						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL						
DUP						
Target Range - Lower Bound						
Upper Bound						
ORIGINAL		<50	<50	<5	<50	8930
DUP		<50	<50	<5	<50	8330
Target Range - Lower Bound		<50	<50	<5	<50	8310
Upper Bound		100	100	10	100	8950

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47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 16-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157842

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	BAG-01	CRU-31	DISP-01
LOG-21	ME-ICP41a	PUL-32	PUL-QC
SPL-21	WEI-21		

ALS Canada Ltd.

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
This copy reported on
23-SEP-2019
Account: SAXGEO

VA19157843

This report is for 2 Soil samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

HELGI SIGURGEIRSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both
DISP-01	Disposal of all sample fractions

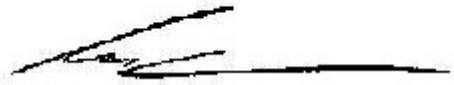
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	WEI-21	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
021607		0.76	0.006	0.07	1.26	19.1	10	100	0.42	0.05	1.71	0.18	16.80	13.6	24	1.43
021608		0.66	0.009	0.10	1.72	4.5	10	120	0.50	0.08	0.52	0.10	15.40	7.9	21	1.50

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Finalized Date: 11-JUL-2019
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CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
021607		85.1	3.32	4.68	0.11	0.06	0.17	0.022	0.05	8.1	10.1	0.88	836	0.77	0.03	0.12
021608		41.2	2.49	5.17	0.06	0.15	0.03	0.020	0.18	7.2	11.0	0.39	428	0.42	0.02	0.46

***** See Appendix Page for comments regarding this certificate *****

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47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
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CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
021607		17.1	1700	3.8	3.2	<0.001	<0.01	0.73	6.4	<0.2	0.3	85.0	<0.01	0.02	1.1	0.073
021608		10.8	410	3.9	14.4	<0.001	<0.01	0.21	5.6	<0.2	0.5	43.4	<0.01	0.01	1.3	0.091

***** See Appendix Page for comments regarding this certificate *****

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PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.05	0.05	2	0.5
021607		0.07	0.38	96	0.11	10.90	46	2.7
021608		0.06	0.35	62	0.06	8.09	45	7.5

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PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

CERTIFICATE OF ANALYSIS VA19157843

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
AuME-TL43	DISP-01	LOG-21	SCR-41
WEI-21			

ALS Canada Ltd.

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
This copy reported on
23-SEP-2019
Account: SAXGEO

VA19157843

This report is for 2 Soil samples submitted to our lab in Vancouver, BC, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

HELGI SIGURGEIRSON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
SCR-41	Screen to -180um and save both
DISP-01	Disposal of all sample fractions

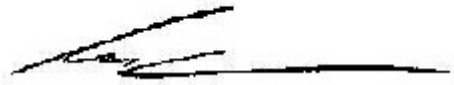
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
AuME-TL43	25g Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

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PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05	0.2
STANDARDS																
MRGeo08		0.004	4.57	2.54	36.1	10	130	0.81	0.73	0.97	2.33	73.5	19.5	87	10.25	641
Target Range - Lower Bound		0.002	4.00	2.23	29.6	<10	100	0.67	0.60	0.86	2.01	66.2	17.0	79	9.45	587
Upper Bound		0.006	4.92	2.75	36.4	30	160	0.95	0.76	1.08	2.47	81.0	21.0	98	11.65	675
OREAS-218		0.540	0.16	3.31	5.4	30	20	0.19	0.06	2.04	0.09	6.62	32.3	71	0.12	160.0
Target Range - Lower Bound		0.450	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.612	0.02	0.02	0.2	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4
BLANKS																
BLANK		0.001	<0.01	<0.01	<0.1	10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Target Range - Lower Bound		<0.001	<0.01	<0.01	<0.1	<10	<10	<0.05	<0.01	<0.01	<0.01	<0.02	<0.1	<1	<0.05	<0.2
Upper Bound		0.002	0.02	0.02	0.2	20	20	0.10	0.02	0.02	0.02	0.04	0.2	2	0.10	0.4
DUPLICATES																
ORIGINAL		>1.00	2.75	0.72	17.8	10	150	0.55	2.86	0.35	9.62	30.0	8.5	14	0.73	127.5
DUP		>1.00	2.71	0.68	17.8	10	140	0.56	2.82	0.35	9.61	28.7	8.4	14	0.69	127.0
Target Range - Lower Bound		0.924	2.58	0.66	16.8	<10	120	0.48	2.69	0.32	9.12	27.9	7.9	12	0.62	122.5
Upper Bound		1.000	2.88	0.75	18.8	20	170	0.63	2.99	0.38	10.10	30.8	9.0	16	0.80	132.0

***** See Appendix Page for comments regarding this certificate *****

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47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05	0.2
STANDARDS																
MRGeo08		3.62	9.79	0.14	0.53	0.07	0.160	1.27	35.7	34.6	1.16	379	15.90	0.31	0.44	718
Target Range - Lower Bound		3.22	8.73	<0.05	0.41	0.03	0.137	1.12	32.4	29.1	1.01	336	13.05	0.27	0.22	622
Upper Bound		3.96	10.80	0.24	0.55	0.09	0.179	1.40	40.0	35.7	1.25	422	16.10	0.35	0.46	761
OREAS-218		5.79	11.00	0.17	0.25	0.04	0.024	0.03	2.4	10.0	1.97	610	0.69	0.07	<0.05	67.6
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4
BLANKS																
BLANK		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Target Range - Lower Bound		<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01	<5	<0.05	<0.01	<0.05	<0.2
Upper Bound		0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02	10	0.10	0.02	0.10	0.4
DUPLICATES																
ORIGINAL		3.70	2.17	0.07	<0.02	0.66	0.022	0.27	13.6	6.1	0.17	961	16.90	0.01	<0.05	11.8
DUP		3.67	2.04	0.07	<0.02	0.64	0.022	0.25	13.0	6.0	0.17	945	16.75	0.01	<0.05	11.7
Target Range - Lower Bound		3.49	1.95	<0.05	<0.02	0.59	0.016	0.24	12.4	5.6	0.15	900	15.95	<0.01	<0.05	11.0
Upper Bound		3.88	2.26	0.10	0.04	0.71	0.028	0.28	14.2	6.5	0.19	1005	17.70	0.02	0.10	12.5

***** See Appendix Page for comments regarding this certificate *****

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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005	0.02
STANDARDS																
MRGeo08		1010	1075	145.0	0.008	0.29	2.80	7.6	0.8	3.3	73.8	0.01	0.03	21.0	0.328	0.85
Target Range - Lower Bound			946	132.0	0.005	0.27	2.10	6.5	0.6	2.8	66.6	<0.01	<0.01	19.1	0.277	0.64
Upper Bound			1155	162.0	0.009	0.35	2.96	8.1	1.5	4.0	81.8	0.03	0.04	23.8	0.349	0.92
OREAS-218		420	2.5	1.2	0.001	0.15	0.18	6.5	0.5	0.4	19.3	<0.01	0.03	0.3	0.227	<0.02
Target Range - Lower Bound		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Upper Bound		20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04
BLANKS																
BLANK		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Target Range - Lower Bound		<10	<0.2	<0.1	<0.001	<0.01	<0.05	<0.1	<0.2	<0.2	<0.2	<0.01	<0.01	<0.2	<0.005	<0.02
Upper Bound		20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4	0.02	0.02	0.4	0.010	0.04
DUPLICATES																
ORIGINAL		410	953	12.3	<0.001	0.05	1.39	1.4	0.5	0.4	30.2	<0.01	0.44	3.1	<0.005	0.10
DUP		400	933	11.6	<0.001	0.05	1.40	1.3	0.5	0.4	28.8	<0.01	0.41	3.0	<0.005	0.09
Target Range - Lower Bound		370	896	11.3	<0.001	0.04	1.24	1.2	0.3	<0.2	27.8	<0.01	0.39	2.7	<0.005	0.07
Upper Bound		440	990	12.6	0.002	0.06	1.55	1.5	0.7	0.6	31.2	0.02	0.46	3.4	0.010	0.12

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **SAXIFRAGE GEOLOGICAL SERVICES LTD.**
47312 SCHOONER WAY
PENDER ISLAND BC V0N 2M2

Finalized Date: 11-JUL-2019
Account: SAXGEO

QC CERTIFICATE OF ANALYSIS VA19157843

Sample Description	Method Analyte Units LOD	AuME-TL43 U ppm 0.05	AuME-TL43 V ppm 1	AuME-TL43 W ppm 0.05	AuME-TL43 Y ppm 0.05	AuME-TL43 Zn ppm 2	AuME-TL43 Zr ppm 0.5
STANDARDS							
MRGeo08		5.68	98	2.09	19.10	763	16.4
Target Range - Lower Bound		4.93	88	1.79	16.90	678	13.5
Upper Bound		6.13	109	2.53	20.8	833	19.5
OREAS-218		0.06	131	0.50	12.55	66	10.2
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.10	2	0.10	0.10	4	1.0
BLANKS							
BLANK		<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.10	2	0.10	0.10	4	1.0
DUPLICATES							
ORIGINAL		0.83	14	1.67	8.93	686	<0.5
DUP		0.83	14	1.73	8.88	677	0.5
Target Range - Lower Bound		0.74	12	1.52	8.41	645	<0.5
Upper Bound		0.92	16	1.88	9.40	718	1.0

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

AuME-TL43	DISP-01	LOG-21	SCR-41
WEI-21			