



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

BC Geological Survey Assessment Report 38305



Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: TECHNICAL - PROSPECTING

TOTAL COST: ~~\$2,712.95~~ \$2664.95

AUTHOR(S): KEN ELLERBECK

SIGNATURE(S):

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

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): EVENT #5742521

PROPERTY NAME: RHYOLITE

CLAIM NAME(S) (on which the work was done): 1066816

COMMODITIES SOUGHT: Au Ag Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092ISE012

MINING DIVISION: KAMLOOPS

NTS/BCGS: 092I07E

LATITUDE: 50 ° 26 '10.6 " LONGITUDE: -120 ° 41 '57.1 " (at centre of work)

OWNER(S):

1) KEN ELLERBECK

2)

MAILING ADDRESS:

255 BATTLE STREET WEST, KAMLOOPS, BC V2C1G8

OPERATOR(S) [who paid for the work]:

1) KEN ELLERBECK

2)

MAILING ADDRESS:

255 BATTLE STREET WEST, KAMLOOPS, BC V2C1G8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Amygdaloidal Andesite, Tuff, Upper Triassic Nicola, Chlorite, Calcite, Epidote, Silica, Malachite, Azurite, Propylitic, Silicification, Oxidation
Fractured, mineral in seams and joint plains. Stockwork Hydrothermal, Epigenetic. E-W strike, dip steep South. 6 m. wide.
Mineral-Cuprite, Malachite, Azurite, Chalcopyrite, Pyrite, hosted by shears and fracture-fillings in vesicular volcanics and red tuffs.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

265, 3668, 3763, 3764, 14959, 15060, 17337, 18048, 36058

Next Page

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			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area) 200m x 200m	1066816		\$2664.95 \$2,742.06
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:	\$2664.95 \$2,742.06

KEN ELLERBECK

(Owner & Operator)

TECHNICAL EXPLORATION REPORT

(Event #5742521)
on

PROSPECTING and EXPLORING

Work done on

Tenures 1066816

of the 3 Claim

RHYOLITE CLAIM GROUP

Kamloops Mining Division
BCGS Maps 092I047

Centre of Work
UTM 10 663396E 5589680N

AUTHOR KEN ELLERBECK, PMP

REPORT SUBMITTED June 06, 2019
Amended November 21, 2019

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INTRODUCTION

PURPOSE

In May 2019 a prospecting program was completed on Tenure 1066816 of the 3 claim RHYOLITE CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance. The author wanted to locate trenching conducted by a previous operator and sample bedrock in the vicinity of the trenching. Report information was obtained from Selected References and from a May 20, 2019 property examination.

ACCESS AND LOCATION

The property is located approximately 12 km. east of Logan Lake, BC and 40 km. south of Kamloops, BC.

Access is via Coquihalla Highway south from Kamloops, BC to Logan Lake highway, then south on the Surrey Lake road for 5000 m. From there, a network of gravel and dirt roads give access to most areas of the claims. Paved roads leading to the claims include the Coquihalla Highway and the Logan Lake-Kamloops highway that passes near the northern boundary of the property. The gravel Surrey Lake Road and Homfray Lake Roads provide access to the property. Old four-wheel drive logging roads provide additional foot access on the property.

PHYSIOGRAPHY

The property is located in the Interior Plateau of southern British Columbia. Topography is gentle to steep and elevation varies from 1240 to 1440 metres above sea level. Many creeks drain the project area and numerous swamps and meadows are found along the creeks. A number of Lakes are also located within the property boundary. Snowfall is moderate and water is available from the lakes, creeks and swamps. Vegetation consists of swamps, open grassy meadows and forest-covered areas. The forested areas vary from aspen and spruce to jack pine and fir. Logan Lake, Kamloops and Merritt, BC, all historic mining centers, are a source of experienced and reliable exploration and mining personnel and mining related equipment.

PROPERTY DESCRIPTION

RHYOLITE Claim Group

<u>Tenure Number</u>	<u>Type</u>	<u>Claim Name</u>	<u>Good Until</u>	<u>Area (ha)</u>
1064406	Mineral	RHYOLITE HOMFRAY	20210331	411.488
1066816	Mineral		20210331	226.386
1067470	Mineral	HELLO MOLLY	20210331	61.752

Figure 1 LOCATION MAP from MTO Mapbuilder

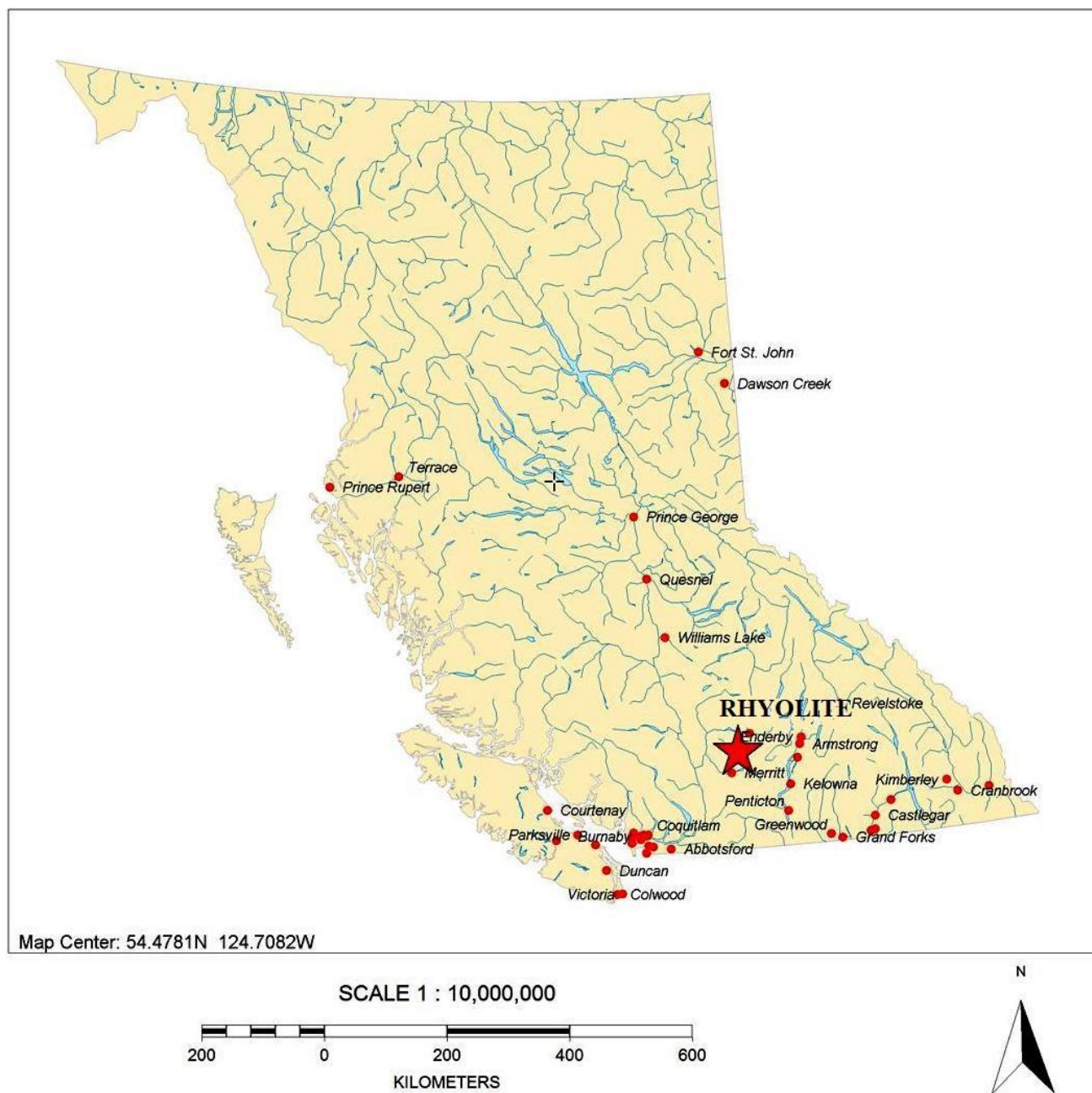


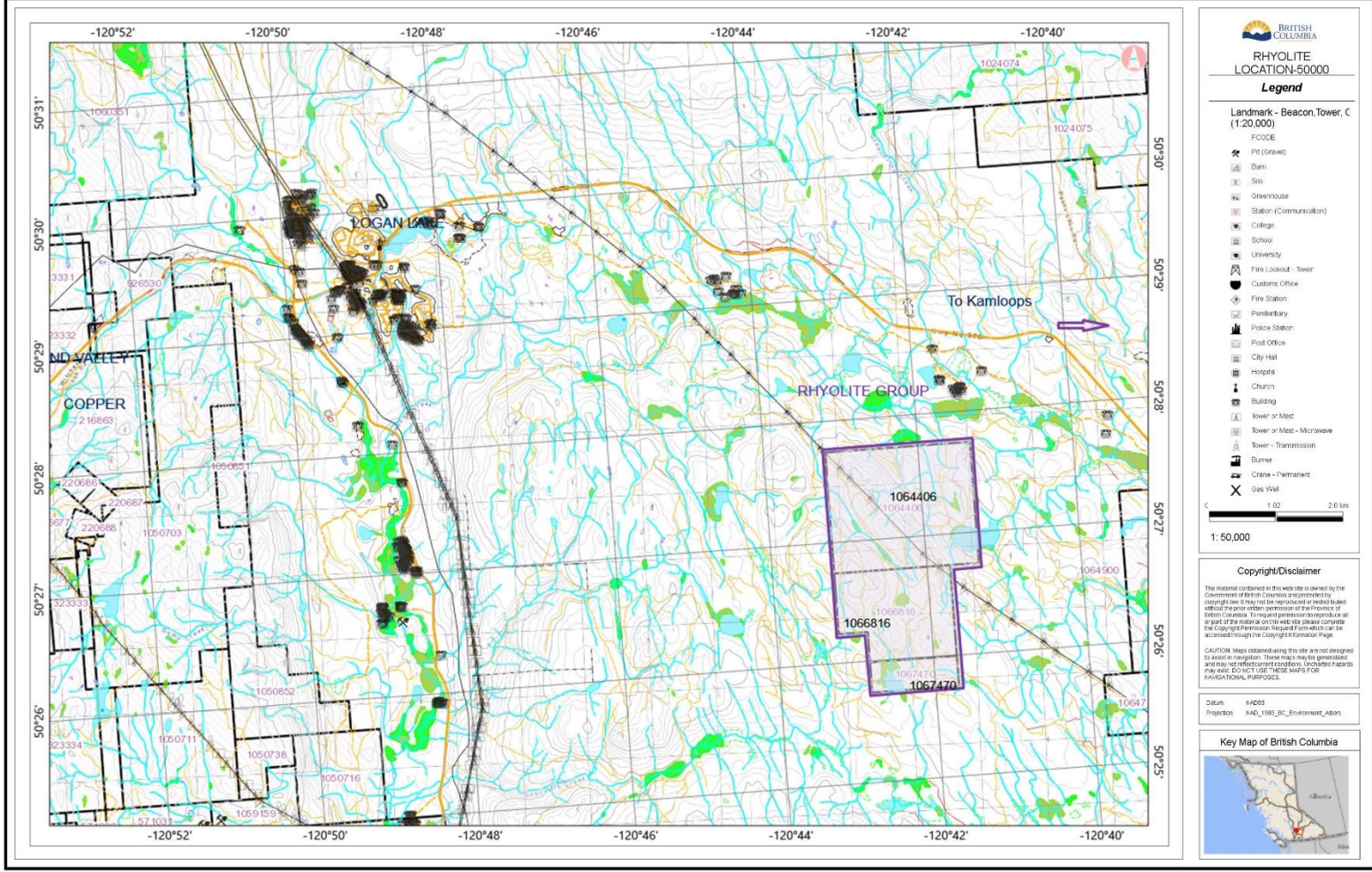
Figure 2 CLAIM LOCATION MAP (Base Map GOOGLE EARTH)

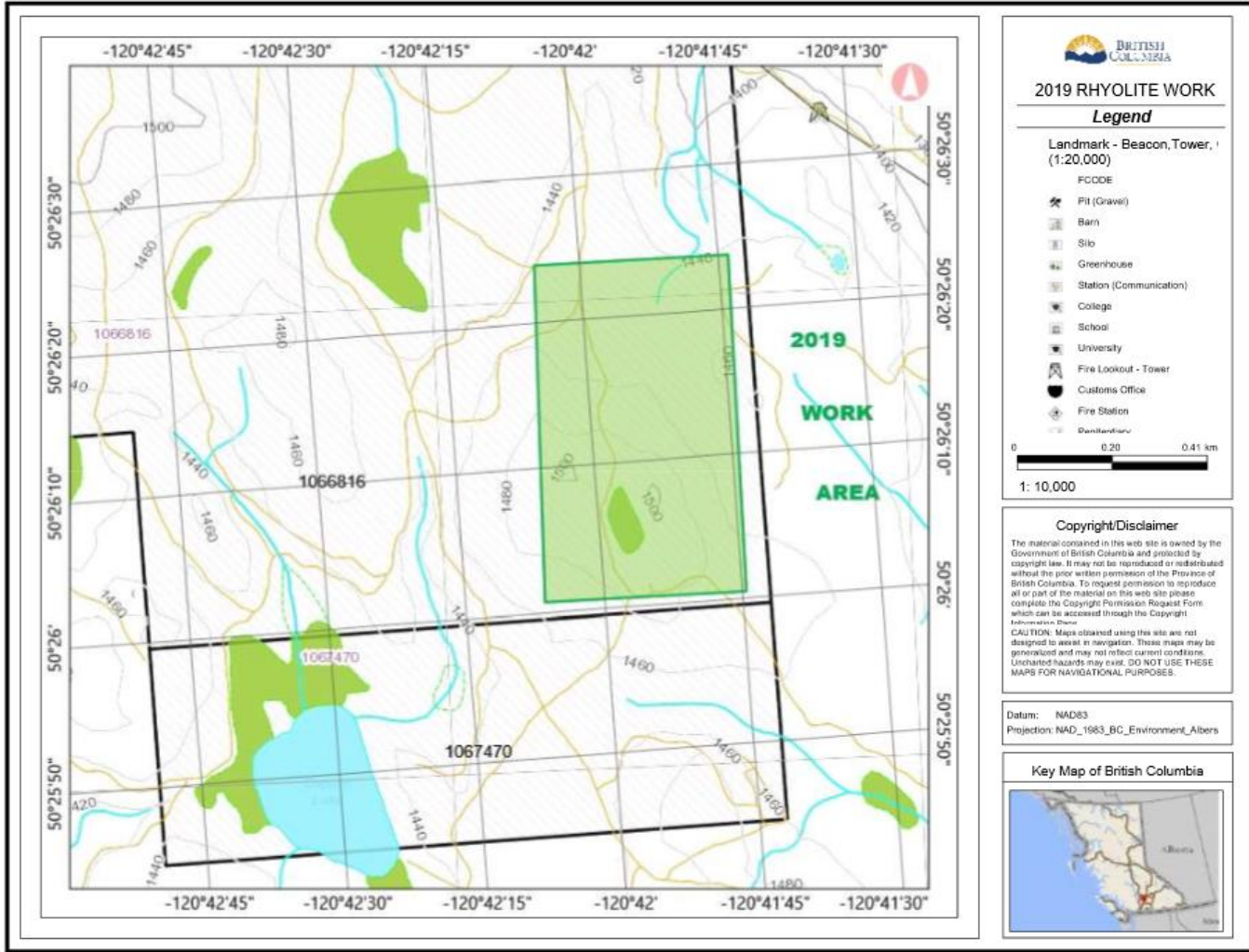


Figure 3 Regional Location Map (Base Map GOOGLE EARTH)



Figure 4 Claim Map and Index Map





HISTORY

Exploration by others on land in and near the current RHYOLITE Claim Group has been reported. Current tenures are believed by the Author to include the RHYOLITE, JHC, and BERTHA-MOLLY showings and workings historically reported.

The RHYOLITE Project area is located in the Intermontane Belt of the Canadian Cordillera that is underlain by Triassic volcanic and sedimentary rocks of the Nicola Group. The Nicola Group is a complex combination of volcanic and sedimentary rocks. A variety of igneous rocks intrude the Nicola Group complex.

The district is host to the Highland Valley copper mines, in Logan Lake (Teck-Cominco), the Afton and New Afton mine, in Kamloops (Teck-Cominco and New Gold) and the historic Craigmont mine, in Merritt (Placer Development).

The RHYOLITE Claim Group was acquired by online staking by the Author and Current Owner (Tenure 10664406 on November 10, 2018, Tenure 1067470 on March 27, 2019) and by acquisition of Tenure 1066816. See Page 3 of this report for Tenure list.

From Crooker, G.F. - GEOPHYSICAL Report on the LC-1 and HOM 1 to 6 Claims, Logan Lake Area, Kamloops Mining Division, 921-7E for G.F. Crooker. AR 22366

5.0 CONCLUSIONS AND RECOMMENDATIONS

The 1992 program consisted of establishing grid lines southeast of the Bertha/Molly showing and carrying out magnetometer and VLF-EM surveys on them.

Magnetic data highs indicated high magnetic data over the survey area and magnetic trends strike northwest-southeast. The magnetic are mostly narrow, linear features probably indicating more basic volcanic units within the volcanic pile. The magnetic lows are also narrow, linear features caused by less basic volcanic units or structural features. A number of the magnetic lows occur coincidentally with VLF-EM conductors.

A large number of mainly weak to moderate, northwest-southeast trending VLF-EM conductors were outlined by the survey. Many of the conductors coincide with magnetic trends and are therefore considered to represent bedrock conditions. Several of the conductor systems occur coincidentally with the linear magnetic lows and are probably outlining fracture or shear zones, or faults.

Recommendations are as follows:

- 1) The grid should be extended several lines to the north to cover the Bertha/Molly and an unnamed showing, and magnetometer and VLF-EM surveys carried out over the grid lines.*
- 2) Geological mapping and prospecting should be carried out over the property, with particular emphasis on checking the geophysical features outlined by this survey and the Induced Polarization survey carried out in 1988.*
- 3) A soil geochemical survey should be carried out over the grid.*

Table 7. Summary of exploration history and exploration results

Year	Owner or Operator (Author of report)	Exploration results	References AR = Assessment Report Figure = Figure in this report
1958	Vanex Minerals Ltd. (McBeath)	Magnetometer Survey	AR 234
1959	Vanex Minerals Ltd. (Hill)	No significant anomalies. Road building in the Homfray Lake area	AR 266A
1959	Vanex Minerals Ltd.	Hole No. 1: The lower portion of the hole encountered a siliceous, altered grey-green rock with considerable pyrite. Hole No. 2: Altered volcanics were noted but no mineralization was reported	AR 18048 Figure 5
1978	Thunderbolt Resources Ltd.	Correlative magnetometer lows with VLF-EM anomalies possibly reflecting strong fault, shear zone or hydrothermal alteration	AR 7268 Figures 6 & 7
1980	Thunderbolt Resources Ltd.	Anomalous values in copper, zinc, and molybdenum	AR 8397 Figure 8
1986	Western Resource Technologies Inc.	Anomalous gold, silver, and arsenic. Future exploration should be concentrated on the precious metals	AR 14959 Figure 9-10
1987	Interpretex Resources Ltd.	No significant gold and silver anomalies over the two VLF-EM conductors tested	AR 16189 Figure 11
1988	Western Resource Technologies Inc	One weak gold geochemical anomaly and a number of copper and zinc geochemical anomalies.	AR 17337 Figure 12-13
1988	Western Resource Technologies Inc	A few scattered values of gold, silver and copper were anomalous over the 1987 copper-zinc geochemical anomaly. Target for massive sulphides	AR 18048 Figures 14-15
2005	Aurora Capital Inc.	The mineralization of silver, copper, and zinc and heavy pyrite associated with silicified andesite, rhyodacite and flow-pyroclastics at the Rhyolite showing is good indication for a prospective exploration target for stratabound mineralization	No AR
2006	Auror Capital Inc.	The Rhyolite mineral showing of the Katrina property may be an indication of mineral seepage along the favorable structural zone of three intersecting structures from deep seated mineral zones.	AR 28671 Figure 16
2008	Auror Capital Inc.	Rhyolite I zone of potential mineralization discovered	No AR Figures 17-19
2016	Delorme	Anomalous magnetometer low may indicate a cross-structural location	AR 35735 Figures 20-21

SUMMARY OF WORK DONE May 2019.

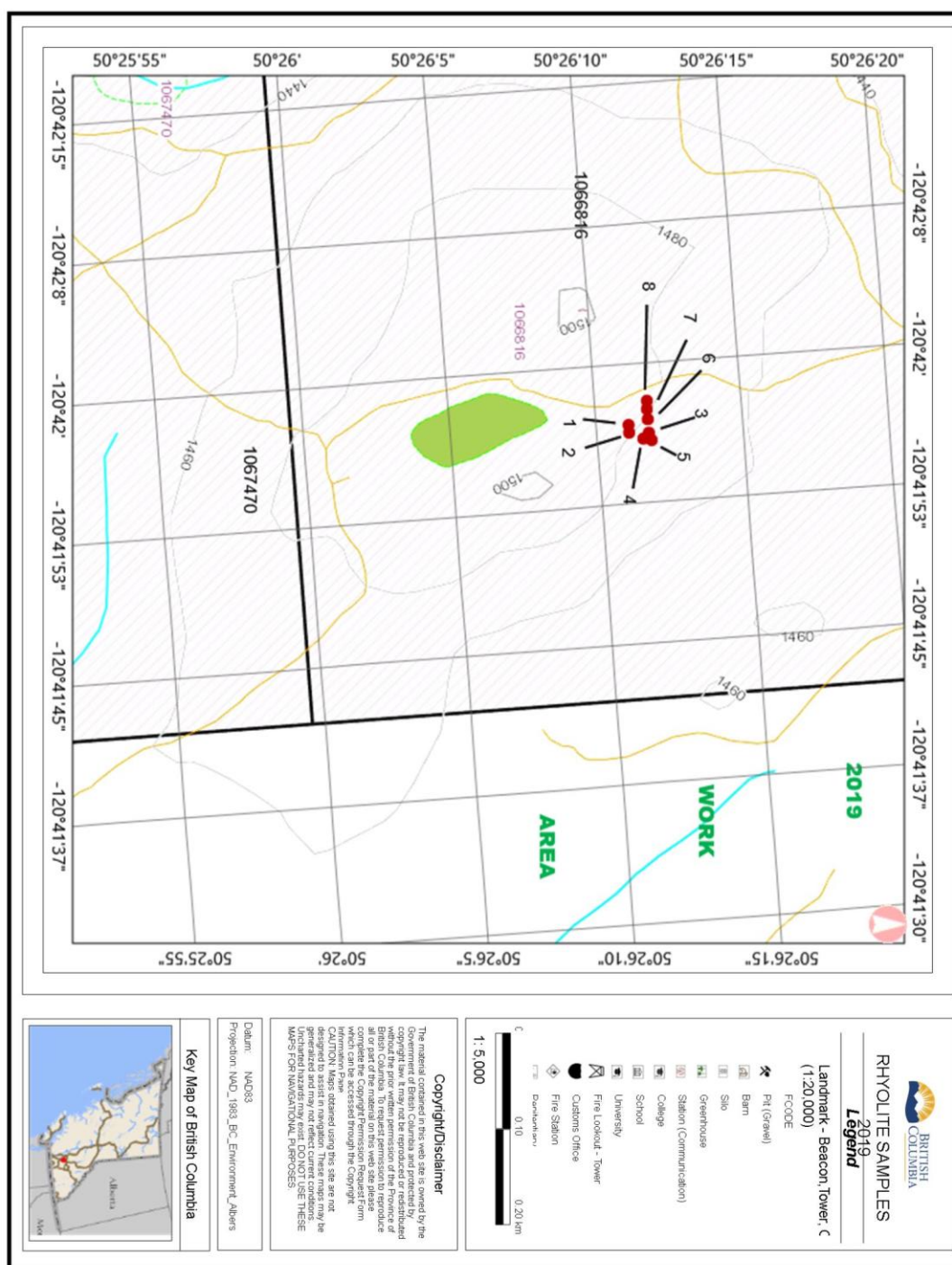
Prospecting was conducted on 1066816 on May 20, 2019. (Figure 4 Index - Work Area).

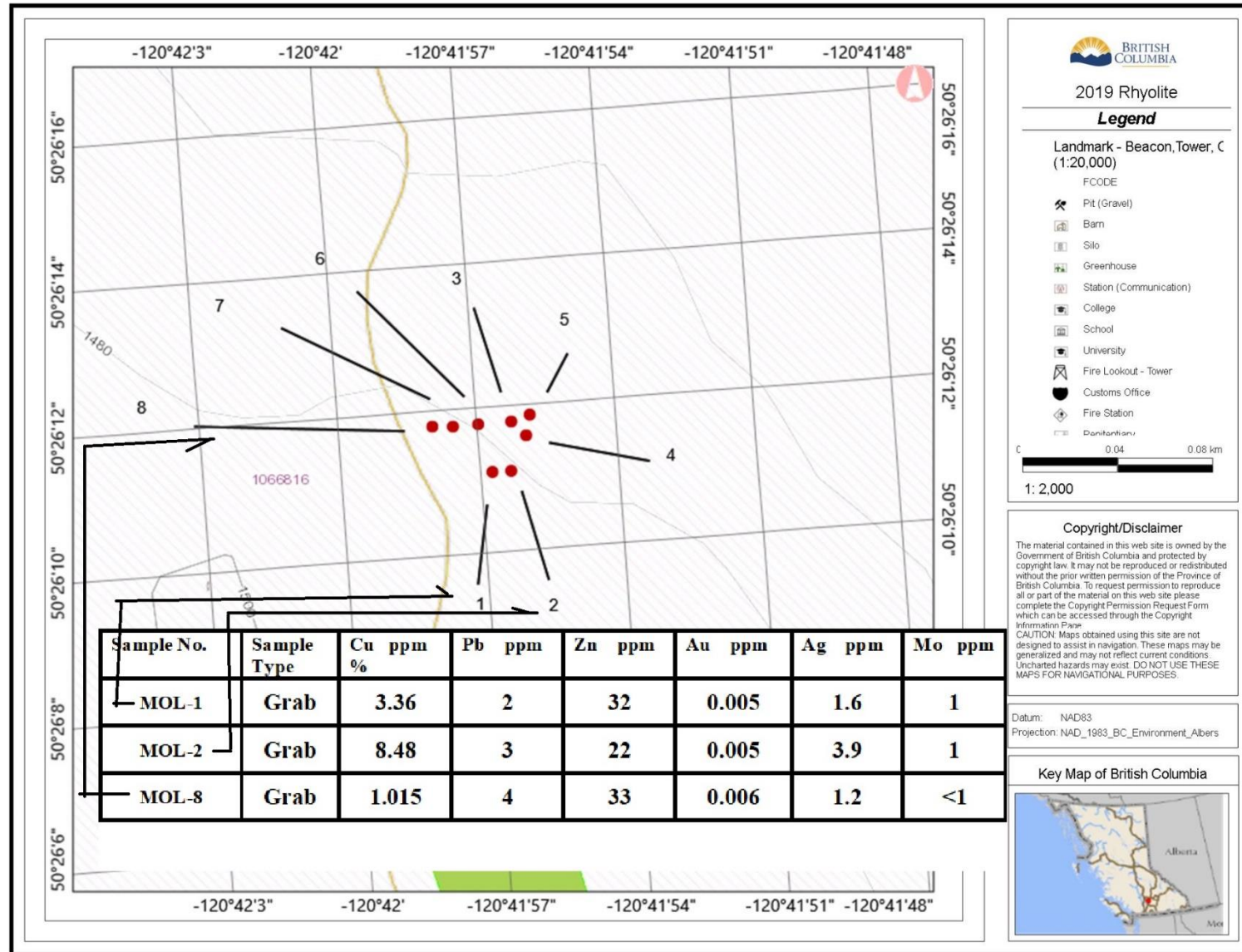
The focus of the work program was to locate historic trenching areas, sample outcropping, and to prospect for unrecorded showings and mineralization.

Eight (8) rock grab samples were taken from outcrop and three (3) of those samples were assayed.

One (1) field day was spent on the claims, including prospecting and travelling to and from the property. One (1) day was spent researching reference material, one (1) day for database compilation and general research, and a further one (1) day was spent compiling data, drafting and writing this report.

Figure 5 Sample Location Area Map 1066816





May 20, 2019 WORK PROGRAM**Sampling Program**

In May 2019 a prospecting program was completed on Tenure 1066816 of the 3 claim RHYOLITE CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance. The author wanted to locate trenching conducted by a previous operator and sample bedrock in the vicinity of the trenching. Report information was obtained from Selected References and from a May 20, 2019 property examination.

Eight (8) rock grab samples were taken from Tenure 1066816 to check for reported mineralization within the claim group.

Three (3) grab samples were submitted for assay.

Table I. Particulars of Grab Samples - ELLERBECK (2019) RHYOLITE

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION All OUTCROP unless indicated
MOL-1 To Lab	0663396	5589680	Purplish/black vesicular and amygdaloidal (chlorite) andesite. Fine grained. Malachite stain. Highly altered. Visible metal throughout. Hard. Cuprite? Chalcocite. 'sheet', eye of chlorite. Dip-vert, strike N
MOL-2 To Lab	0663393	5589683	Bornite. Purplish/black vesicular, amygdaloidal chlorite, silicified, andesite. Fine grained. Malachite stain. Highly altered. Visible metal. Hard. Fractured. Cuprite? Chalcocite. 'sheet' of chlorite
MOL-3	0663407	5589698	Purplish/black vesicular, amygdaloidal chlorite, silicified andesite. Fine grained. Malachite stain. Highly altered. Visible metal. Hard. Fractured. Cuprite? Chalcocite. 'sheet' of chlorite
MOL-4	0663404	5589699	Malachite stained. Chloritized, altered vesicular andesite, brownish, shear zone, crumbly, visible metal
MOL-5	0663404	5589699	Vesicular andesite, purplish, large amygdules (calcite), crumbly shear zone, no visible metal, iron staining,
MOL-6	0663398	5589689	Vesicular andesite, purplish/brown, malachite stain, no visible metal, chlorite sheet, eyes, fractured, crumbly
MOL-7	0663397	5589689	Vesicular andesite, purplish/brown, malachite stain, no visible metal, chlorite sheet, eyes, fractured, crumbly
MOL-8 To Lab	0663397	5589683	Vesicular andesite, purplish/brown, malachite stain, visible metal (cuprite, chalcocite, galena) in sheet fracture fill, chlorite sheet, fractured, hard

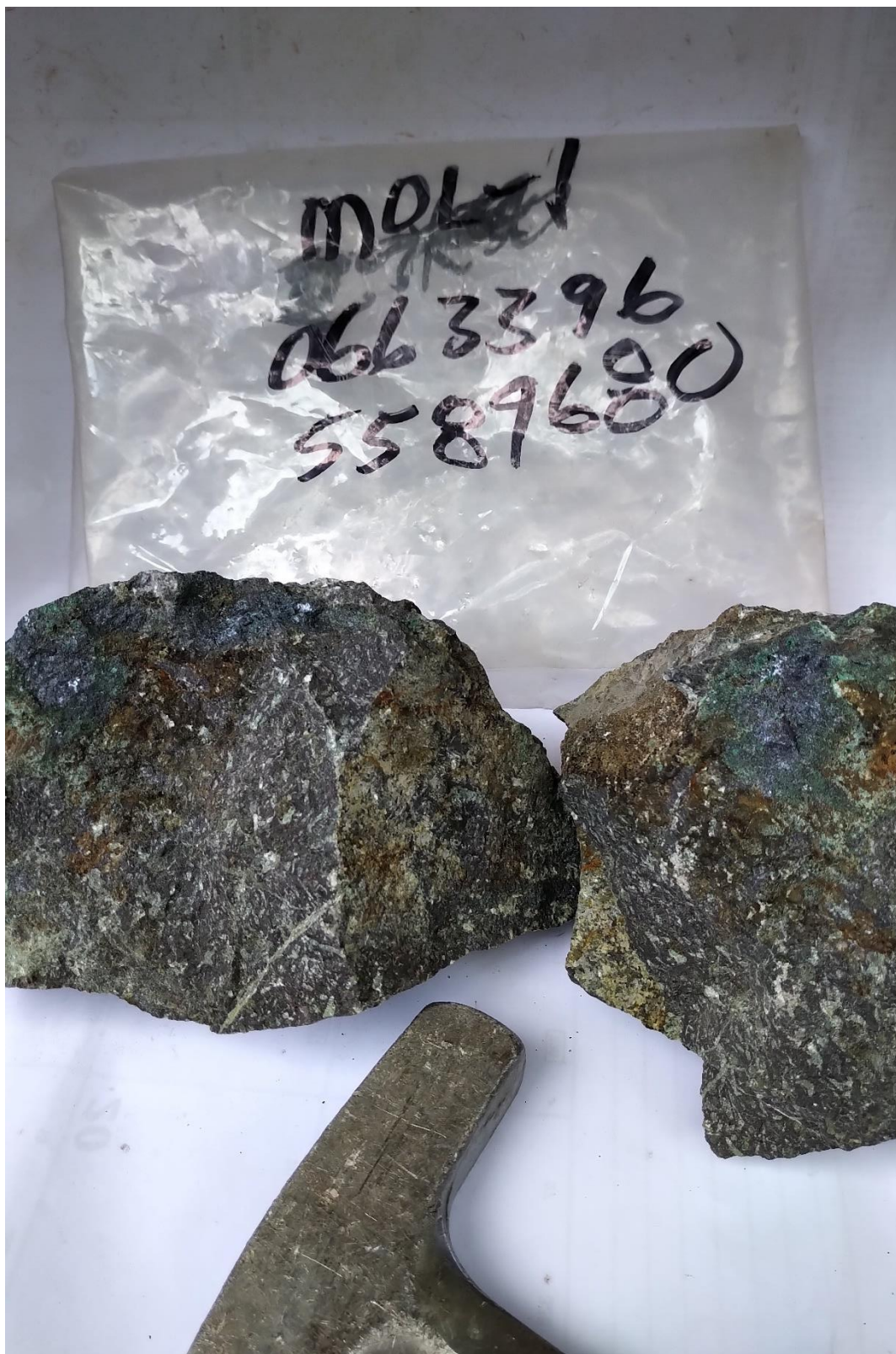
FIGURE 6 LOCATION AND TYPICAL ROCK PICTURES
MOL-1 LOCATION AND TYPICAL ROCK PICTURE – To Lab







MOL-1 LOCATION AND TYPICAL ROCK PICTURE



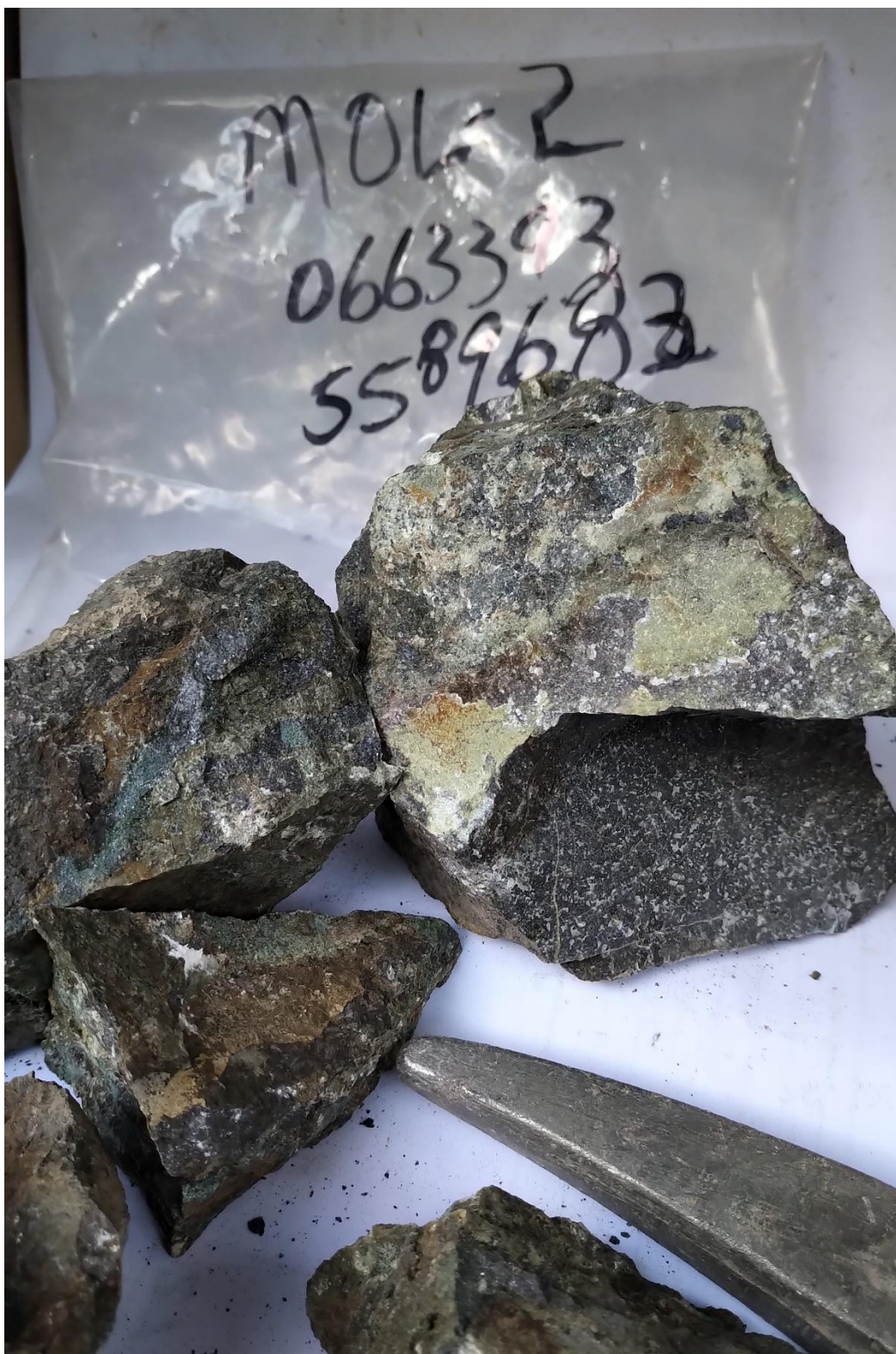
MOL-2 LOCATION AND TYPICAL ROCK PICTURE to Lab





MOL-2 LOCATION AND TYPICAL ROCK PICTURE

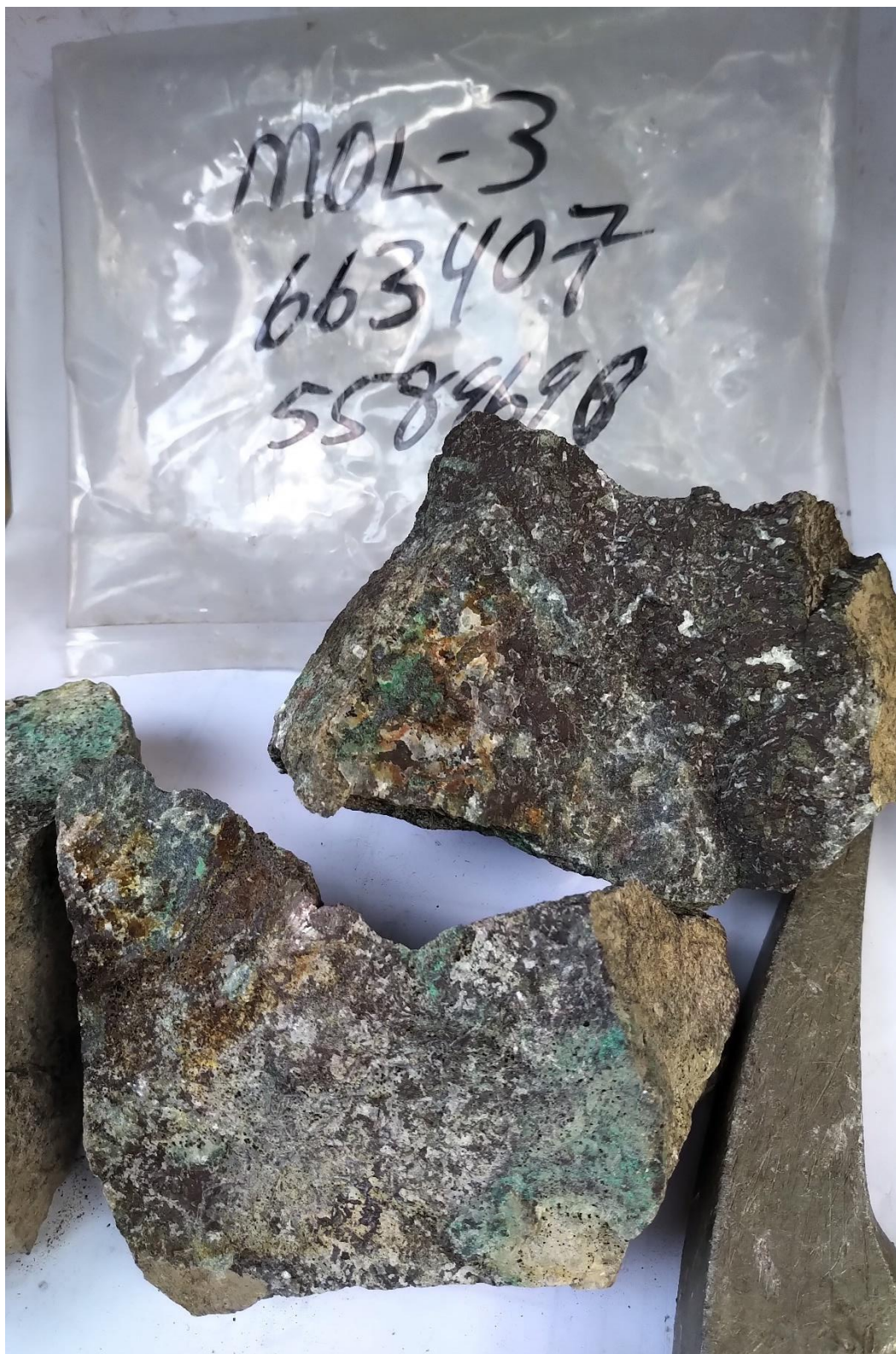




MOL-3 LOCATION AND TYPICAL ROCK PICTURE



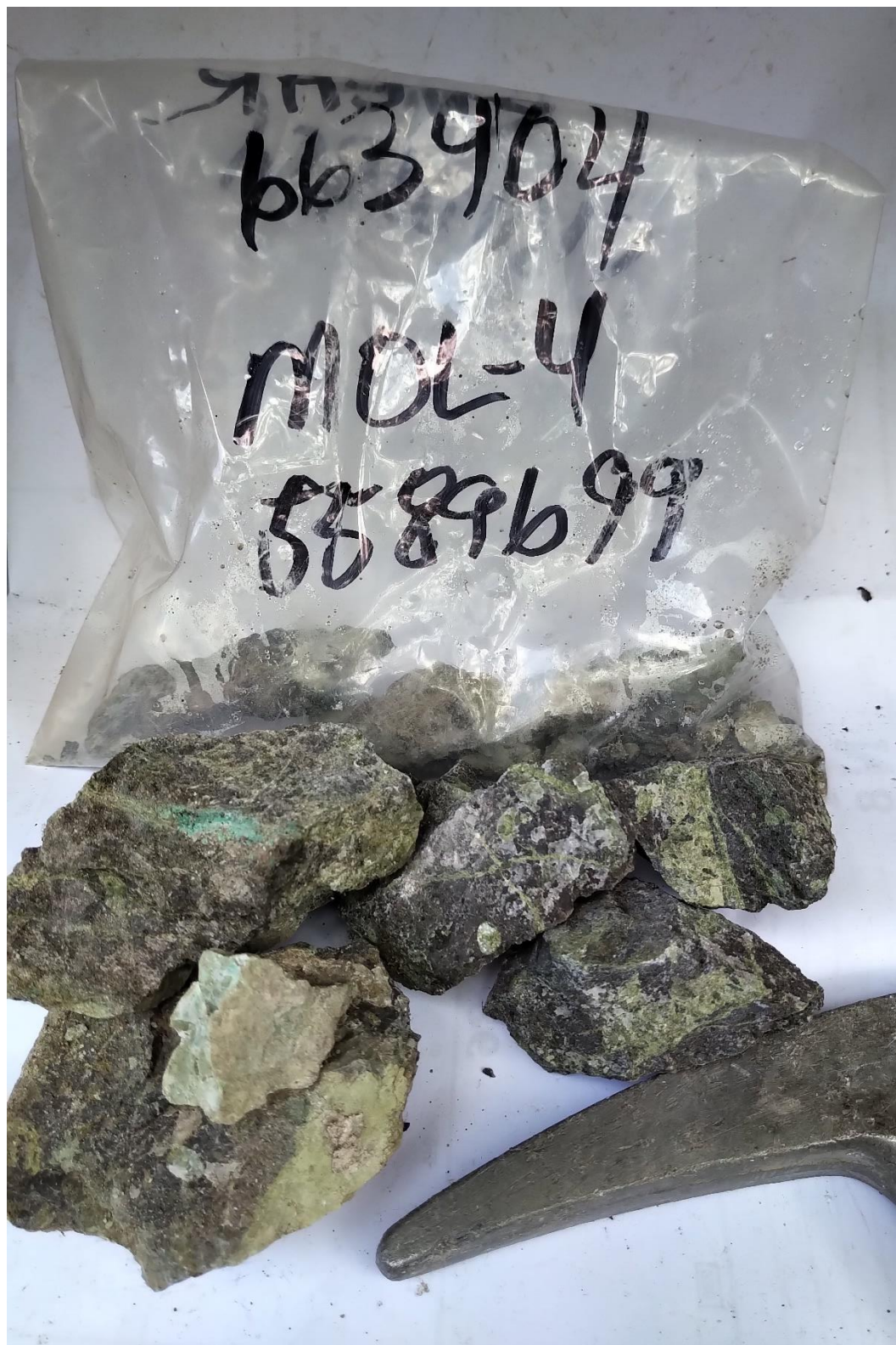
MOL-3 LOCATION AND TYPICAL ROCK PICTURE



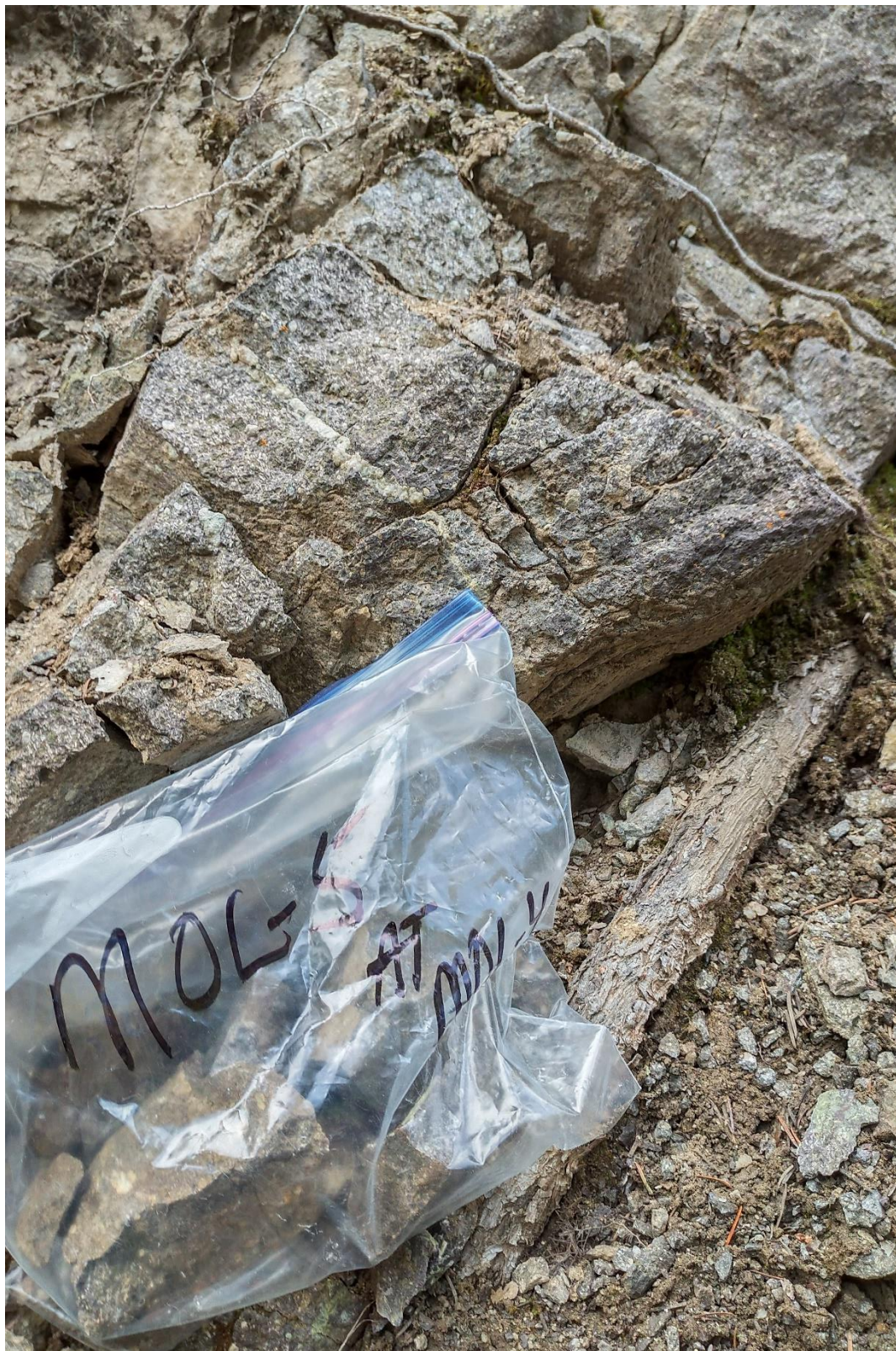
MOL-4 LOCATION AND TYPICAL ROCK PICTURE to Lab



MOL-4 LOCATION AND TYPICAL ROCK PICTURE

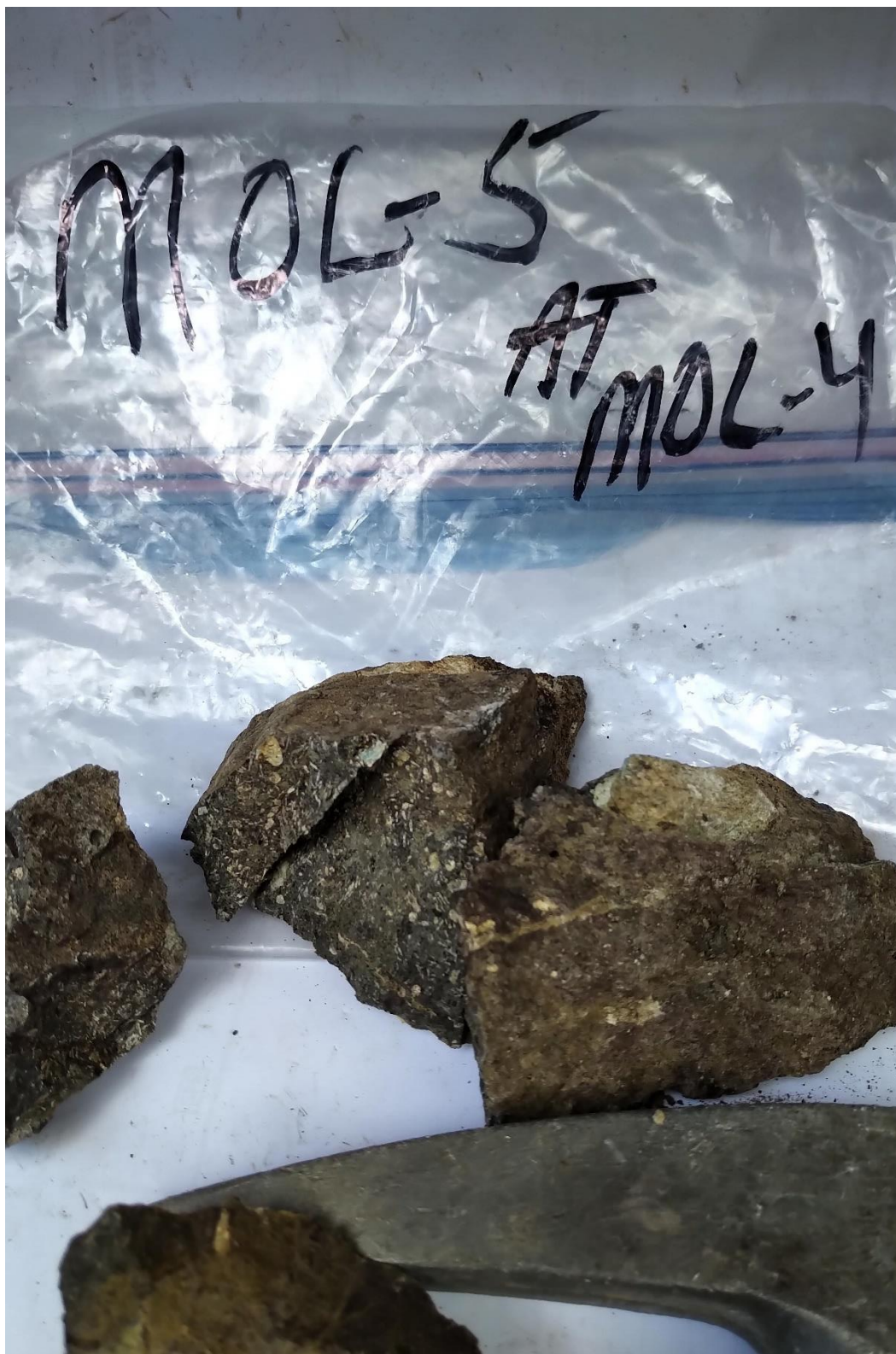


MOL-5 LOCATION AND TYPICAL ROCK PICTURE

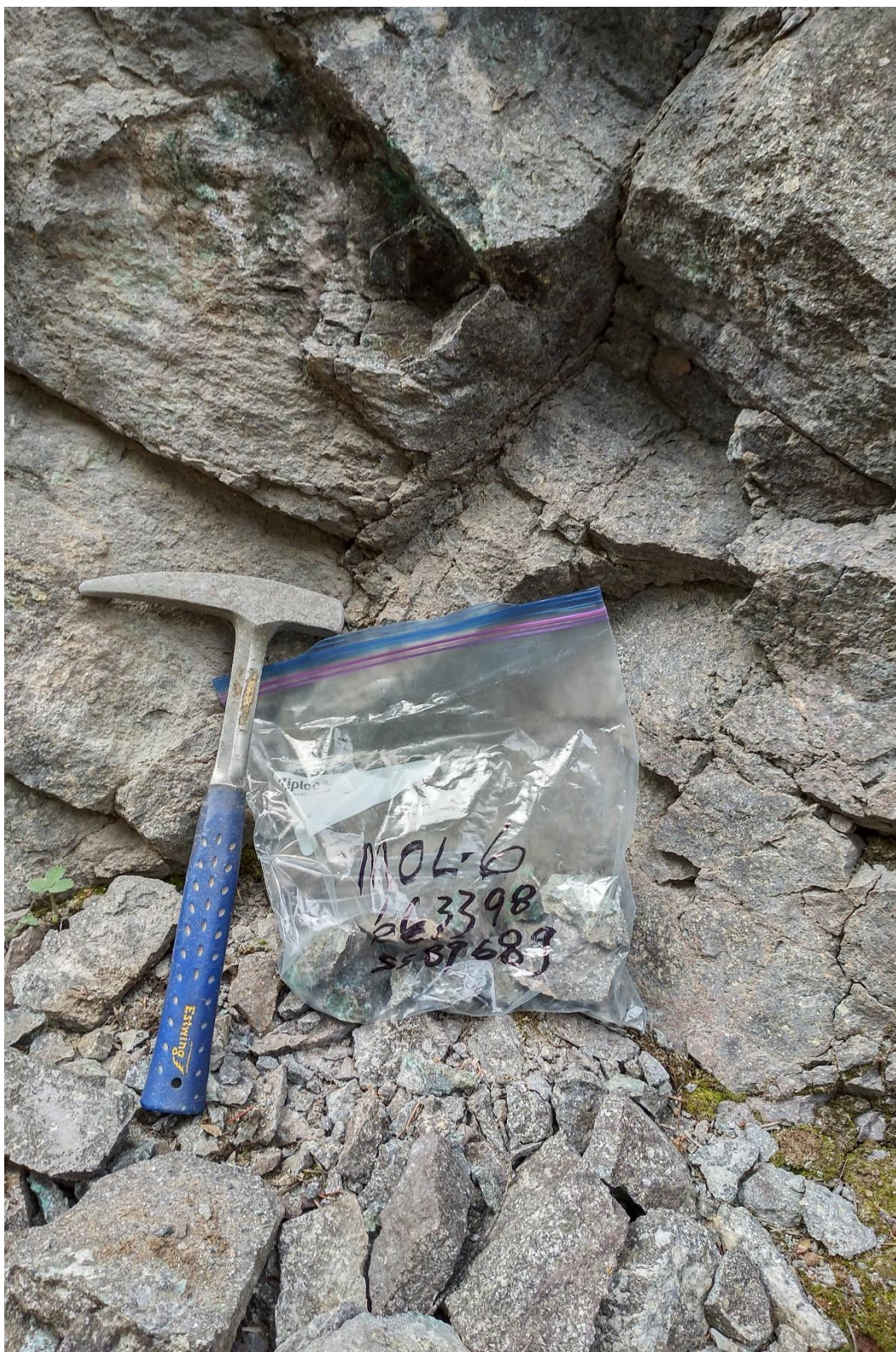




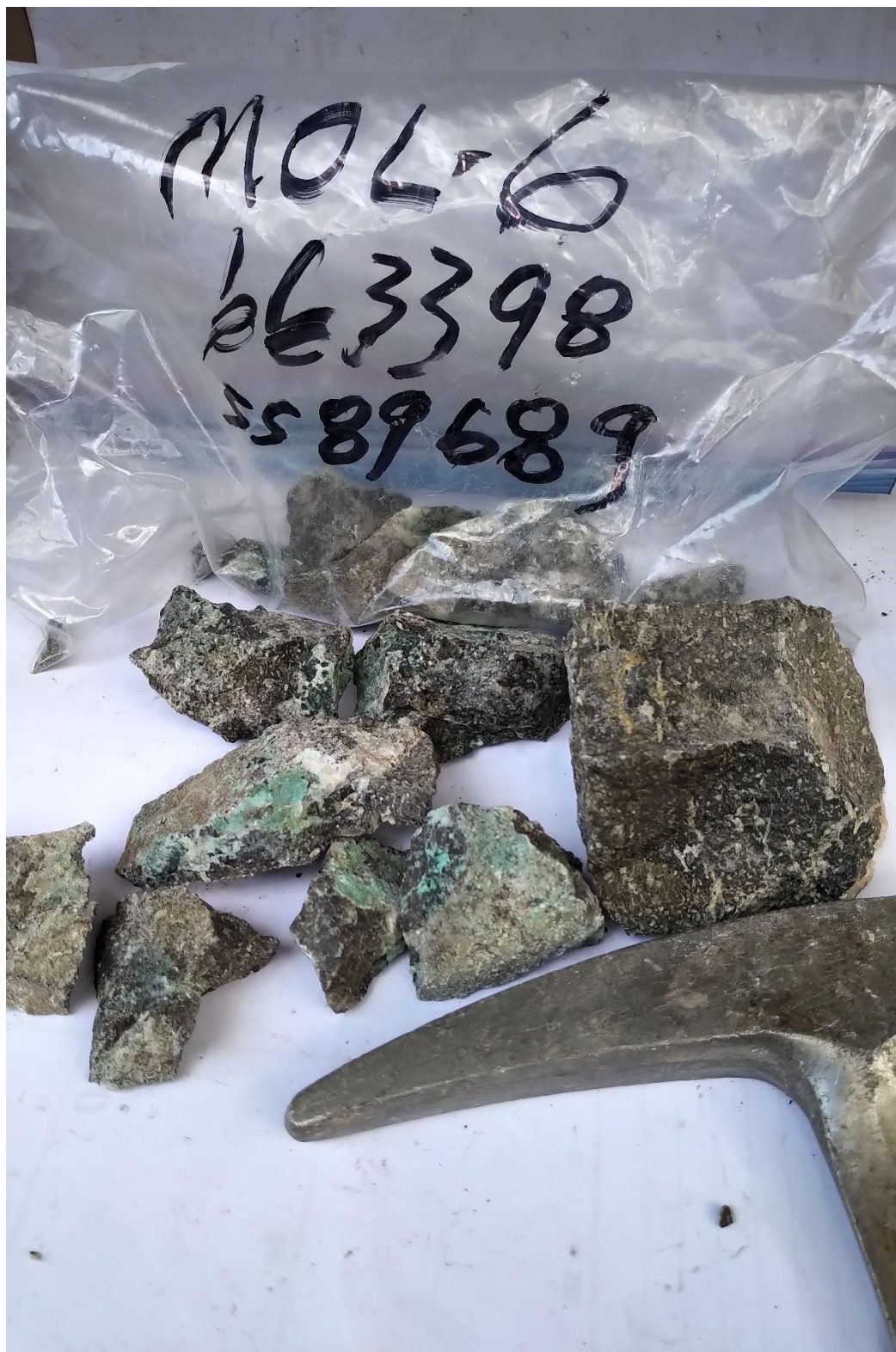
MOL-5 LOCATION AND TYPICAL ROCK PICTURE



MOL-6 LOCATION AND TYPICAL ROCK PICTURE



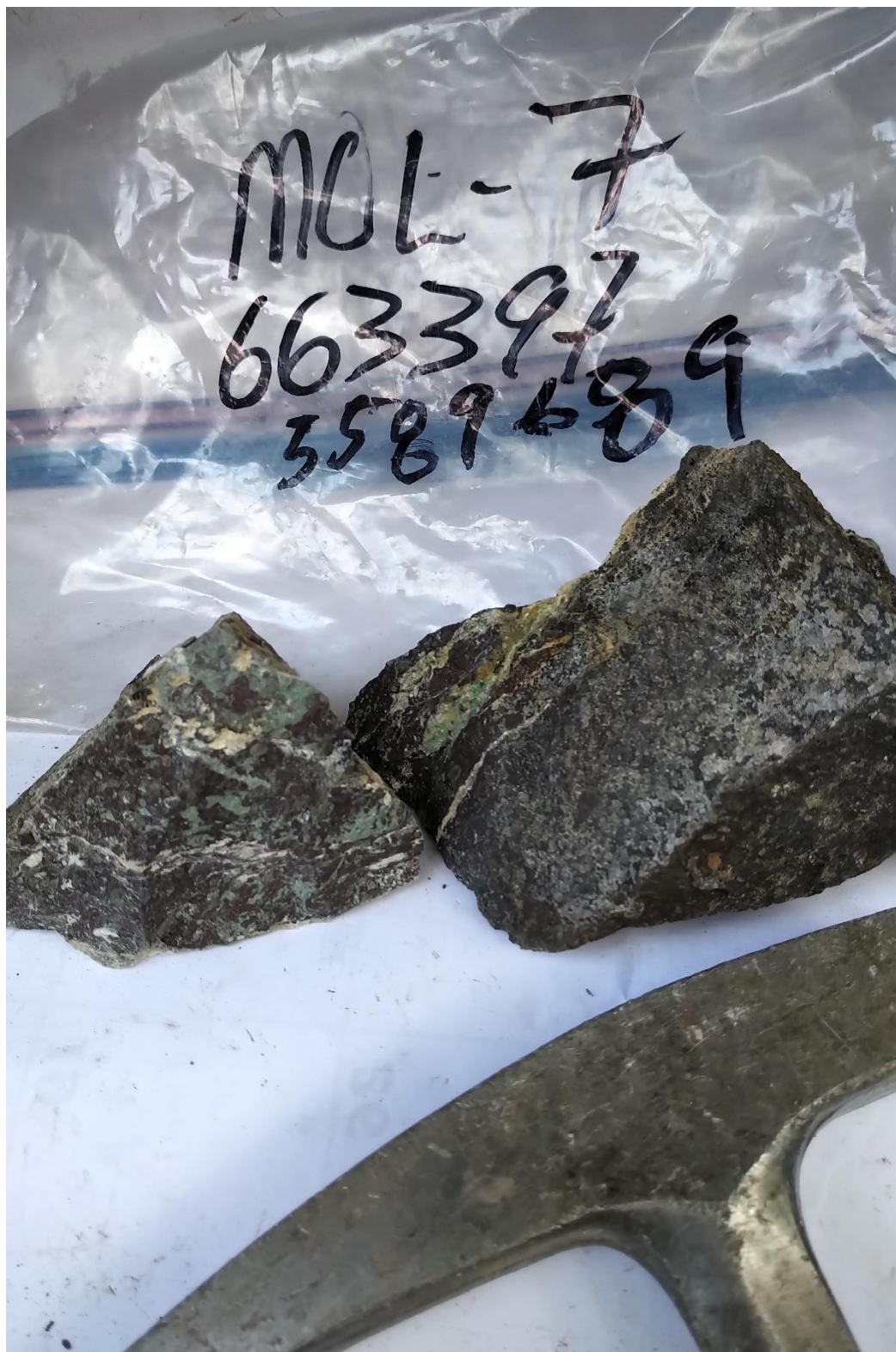
MOL-6 LOCATION AND TYPICAL ROCK PICTURE



MOL-7 LOCATION AND TYPICAL ROCK PICTURE



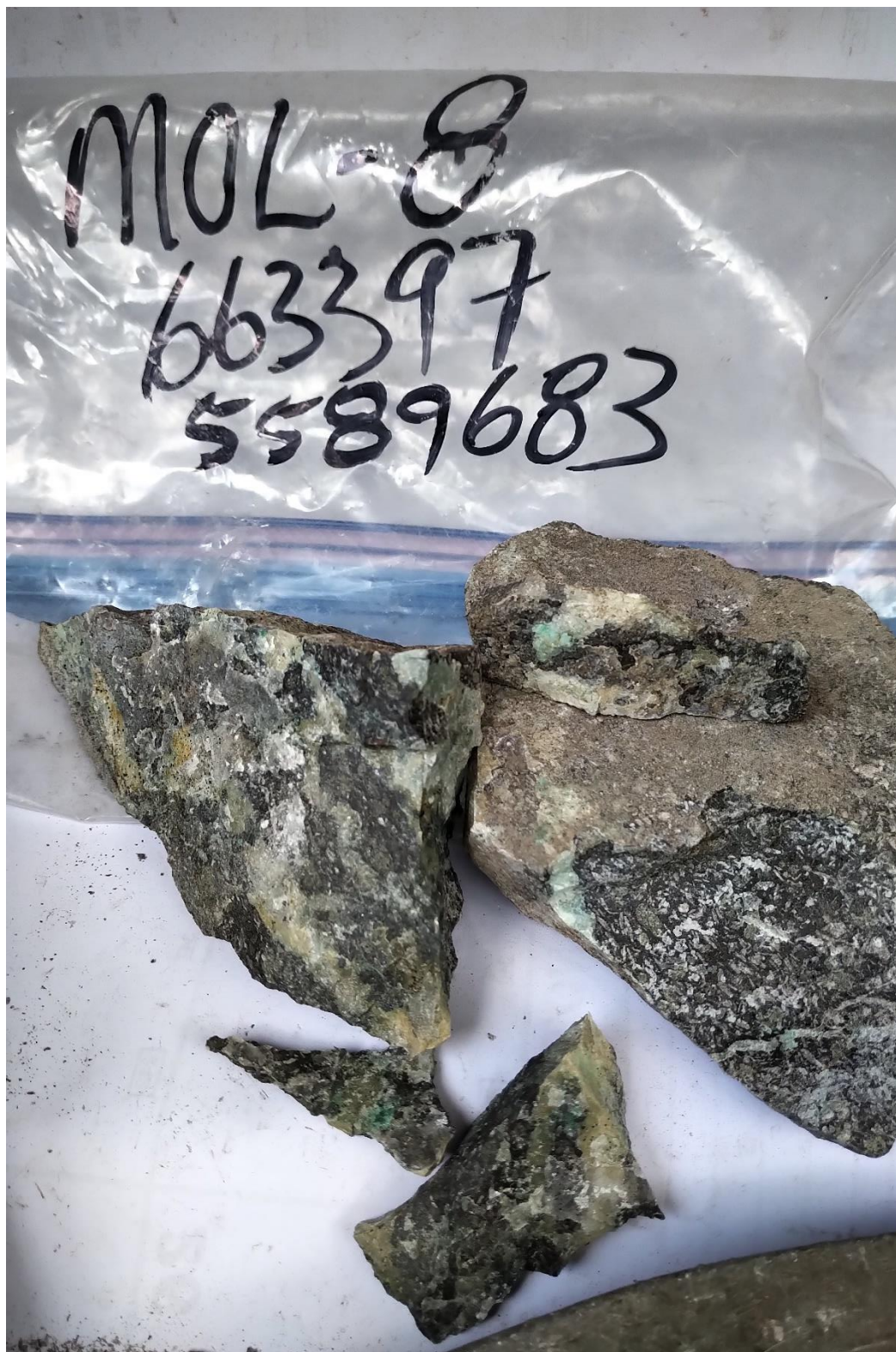
MOL-7 LOCATION AND TYPICAL ROCK PICTURE



MOL-8 LOCATION AND TYPICAL ROCK PICTURE – To Lab



MOL-8 LOCATION AND TYPICAL ROCK PICTURE – To Lab



SUMMARY OF REGIONAL AND PROPERTY GEOLOGY**REGIONAL GEOLOGY**

From AR 28671 Laurence Sookochoff PEng for Aurora Capital Corp. 2006

REGIONAL GEOLOGY

Regionally, the property is situated within the Quesnel Trough, a 30 to 60 km wide belt of Lower Mesozoic volcanic and related strata enclosed between older rocks and much invaded by batholiths and lesser intrusions (Campbell and Tipper, 1970). The southern part is the well-known Nicola belt, continuing nearly 200 km to its termination at the U.S. border. The Nicola belt is enveloped by the Guichon Creek Batholith, host to the major porphyry copper mines of the Highland Valley, to the west, the Wild Horse Batholith to the east, and the Iron Mask Batholith, host to the former Afton Mine, to the north northeast.

The Guichon Batholith is comprised of varying phases of intrusive with the ore-bodies of the Highland Valley not restricted to any one phase. The Bethlehem Copper JA deposit occurs in and adjacent to a quartz plagioclase aplite stock which intruded rocks of the Guichon variety and Bethlehem phase of the Guichon Creek Batholith. The largest deposit of the camp, the Valley Copper deposit, is entirely in quartz monzonite of the Bethsaida phase and is west of the Lornex fault. The Lornex and the Valley Copper ore-bodies in the Highland Valley are located at the low edge of an airborne magnetic high. The magnetic high traces the Highland Valley and the Lornex fault systems and clearly indicates the fault pattern of the system and the ore-bodies. Occurring within a magnetic low due to the supergene and dynamic related destruction of magnetite.

The ore-deposits of the Highland Valley are structurally controlled. Movements on the Lornex and Highland Valley faults occurred simultaneously and alternatively in the final phases of intrusion of the Guichon Batholith. The fault planes provided the openings for the admission and deposition of mineral and igneous matter. In the vicinity of Afton, the Iron Mask district is part of a major structure extending northwestward across the general northerly trend of the Nicola belt. This cross structure is less than 10 km wide and about 35 km long. To the northwest, the structure is largely obscured by later stratified rocks of an adjoining basin. To the southeast, it contains two related plutons formerly believed to be a single connected body named the Iron Mask batholith. The Afton deposit lies on the northwestern edge of the Iron Mask Batholith, an area which is known to be the locus of much faulting. The area of the deposit, and especially the western half, is strongly faulted.

The Iron Mask Batholith lies lengthwise in a major cross structure of the Quesnel Trough and is emplaced in contemporaneous volcanic rocks of the Upper Triassic Nicola Group. Control of the cross-structure by long-active, deep-seated faults is evidenced by the manner of emplacement of plutons and by the development of adjacent sedimentary and volcanic basins of Eocene or possibly much earlier age. Hypogene alteration has no recognized pattern and it includes potassic, saussuritic and phyllic varieties. Supergene alteration is characterized by rock disintegration and abundant earthy hematite with limonite. Faults, although numerous, mostly defy correlation and cause only minor disruption of the deposit. However, the western end of the deposit is terminated by a fault.

Geochemical and geophysical surveys fail to distinguish the orebody clearly from widespread subeconomic mineralization.

The Batholith comprises successively emplaced Units, all apparently of late Triassic age and

ranging in composition from basic to moderately alkalic. The Iron Mask and Pothook units are the oldest on geological evidence and consist chiefly of diorite and gabbro. Succeeding units of finer-grained, more porphyritic rocks are emplaced mainly along northwestern and western linear structure that frame and dissect the pluton. Thus, picrite basalt forms steep, lenticular bodies that are poorly exposed, commonly possess sheared, serpentized margins, and are generally found within 300 m of most prospects in the district.

The Afton ore-body lies apparently at the intersection of structures considered to reflect deep seated faults that were active intermittently from the late Triassic (Carr, 1976).

The Afton ore-body occurs in late-phase plutonic rocks which include latite porphyry and related breccias and is at the northwestern extremity of the Iron Mask Batholith. The ore-body occupies the northwestern tip of a zone of abundant magnetite veining developed along the longitudinal axis of the Iron Mask Batholith. An extensive pyrite halo lies south and west of the Afton orezone, overlapping slightly onto its southwestern sector.

Figure 7 RHYOLITE CLAIM GROUP Regional Geology

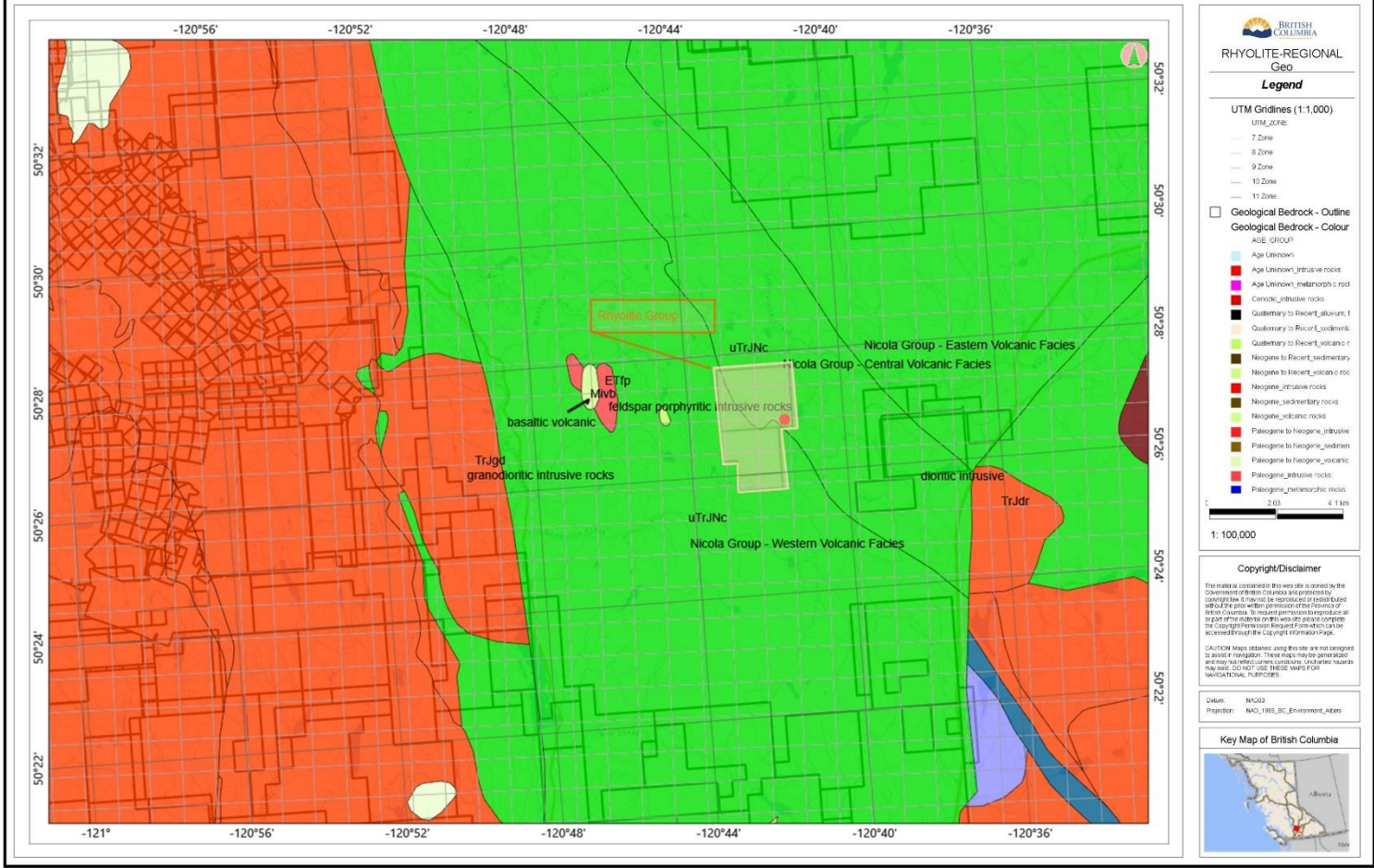
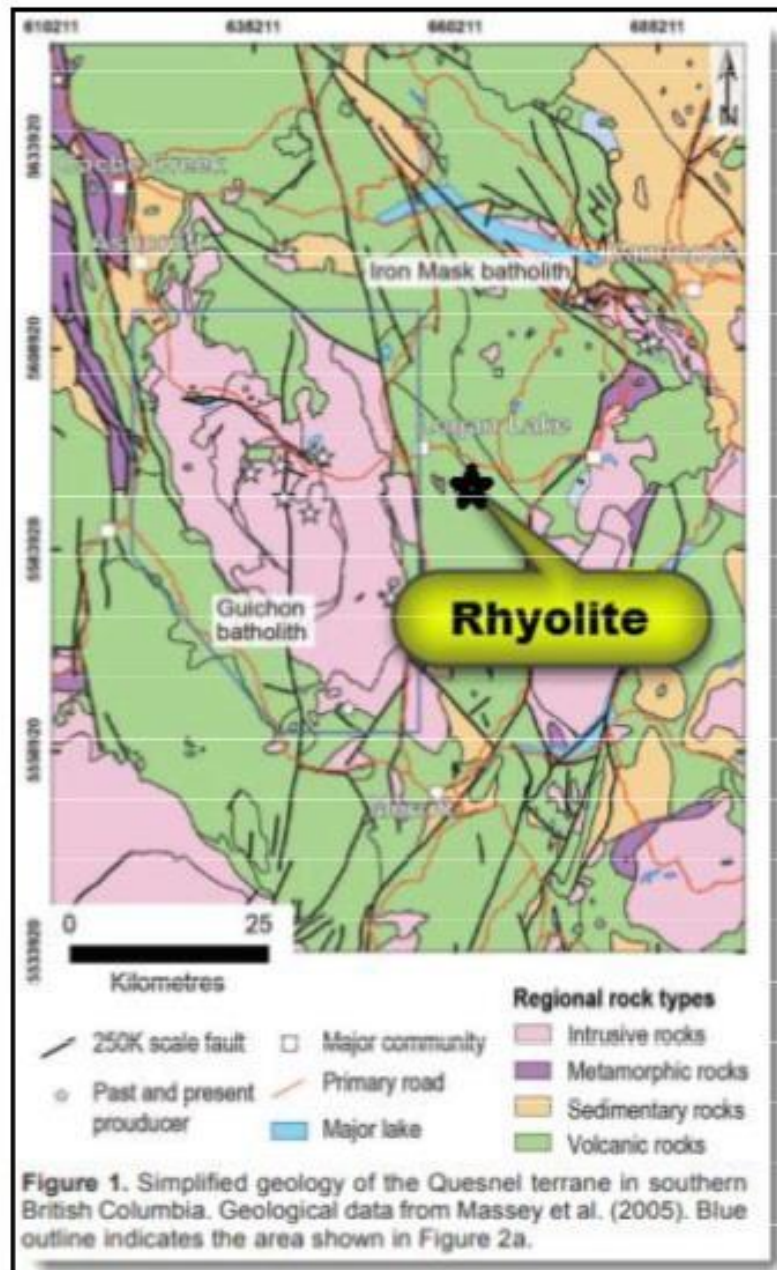


Figure 22 Regional Geology: Quesnel Terranes
(Base map from Britton, 2016)





LOCAL GEOLOGY

From AR 28671 Laurence Sookochoff PEng for Aurora Capital Corp. 2006

LOCAL GEOLOGY

Crooker (1988) reports that the WRT claims (includes the present Katrina claim ground) is underlain by Upper Triassic Nicola volcanics and derivatives. Small sills or dykes of feldspar porphyry are found at the junction of Meadow Creek and its fork from Desmond Lake. Smaller alteration zones, possibly along faults, consist of quartz mariposite carbonate zones, mariposite schists and chlorite mica schists. Small bodies of rhyolite occur within a volcanoclastic unit near Homfray Lake. In the western half of the property, the rocks are generally purplish amygdaloidal volcanics with intercalated reddish tuffs. Chloritic alteration is common along fractures.

The Katrina claim is indicated to be entirely underlain by the Nicola volcanic rocks with reported geology of the showings as follows:

Rhyolite Showing

The Rhyolite Showing occurs near a flow-pyroclastic contact within Nicola volcanic rocks. Crooker (1988) reports that the Rhyolite Showing area is mainly underlain by a grey, green or black amygdaloidal basalt (unit 1). Varicoloured calcite amygdules ranging from 1 to 6 mm in diameter occur within an aphanitic groundmass. Several beds of maroon to green volcanoclastic breccia (unit 2) occur within the basalt. Maroon, subrounded to subangular clasts ranging up to 30 cm long by 15 cm wide occur within an aphanitic groundmass. Two northwest trending felsic dykes (unit 3) occur along the main road. The dykes appear to be 3 to 4 meters wide, and are light grey-green, aphanitic and siliceous. Pyrite content varying from 1/2 to 5% occurs within the felsic dyke.

Vanex reported that "During the 1985 exploration program a showing of "rhyolite" with up to 5% pyrite was found along the main road. A sample taken from the outcrop assayed 0.78 Oz/ton Ag, 1.76% Cu and 1.52% zinc. Outcrop is generally sparse over the eastern section of the grid although several old trenches were found in the immediate vicinity of the showing. Weakly silicified andesite and rhyodacite were exposed in the trenches with up to 5% pyrite. Sample 87-005 gave weakly anomalous values of 5.5 ppm Ag and 55 ppb Au. A sample of float (87-008) taken approximately 75 meters north of 87-005 gave 6.2 ppm Ag, 28 ppb Au, 2740 ppm Cu and 6289 ppm Zn. Sample 87-008 was silicified, containing many tiny quartz veinlets. The proximity of these showings to the flow-pyroclastic contact makes the area a good target for stratabound massive sulphide mineralization."

JHC Showing

Vanex Minerals Ltd. acquired claims covering the JHC showing in 1958. They conducted magnetic surveys and physical work under the direction of Hill, Stark and Associates, Consulting Engineers. In 1959 Vanex drilled two holes in the JHC Showing area:

Hole No. 1

This hole was located approximately 3000 feet north of Homfray Lake and was drilled vertically to a depth of 358 feet to test a magnetic high. The lower portion of the hole encountered a siliceous, altered grey-green rock with considerable pyrite. No assays were reported but the recommendation.

Hole No. 2

This hole was located on the west shore of Homfray Lake and was drilled at minus 45 degrees to a depth of at least 293 feet. Altered volcanics were noted but no mineralization was reported and no reason was given for drilling the hole.

1985- 1988 - Western Resources Technologies Inc. completed geological, geochemical and geophysical surveys on the WRT group which presently incorporates the Katrina mineral and the Rhyolite and JHC mineral showings (Figure 8.).

Exploration work completed by Western Resources Technologies Inc. on the Katrjna claim ground was reported as follows:

On the Rhyolite mineral showing, investigation of a 1987 copper-zinc geochemical anomaly indicated a northwest trending zone of shearing with quartz and carbonate veinlets. Sampling of the zone gave weakly anomalous values of gold, silver, copper and zinc. The flow-pyroclastic contact at the Rhyolite Grid reportedly remains a target for massive sulphide mineralization. As the zone is poorly exposed and of unknown dimensions, several trenches were recommended to be cut across the zone to thoroughly evaluate it. (Crooker, 1988).

Figure 8 RHYOLITE CLAIM GROUP Local Geology

Figure 24 Property Geology, Claims, and Minfiles
(Base map from MapPlace)



LEGEND

Mivb

Miocene-unnamed
Basaltic volcanic rocks

EKav

Eocene-Kamloops Group
Undivided volcanic rocks

EPrb

Eocene-Penticton Group
Andesitic volcanic rocks

Upper Triassic-Nicola Group

uTrNW

Western Volcanic Facies
undivided volcanic rocks

uTrNC

Central Volcanic Facies
andesitic volcanic rocks

uTrNE

Eastern Volcanic Facies
basaltic volcanic rocks

uTrN

undivided volcanic rocks

Late Triassic to Early Jurassic

Guichon Creek Batholith

LTrJGBe – Bethlehem Phase

granodioritic intrusive rocks

LTrJGB – Bethsaida Phase

quartz monzonitic intrusive rocks

LTrJGH – Highland Valley Phase

granodioritic intrusive rocks

LTrJGG – Gump Lake Phase

granodioritic intrusive rocks

LTrJGBo – Border Phase

quartz dioritic intrusive rocks



SUMMARY OF REGIONAL AND PROPERTY GEOLOGY (.....continued)

Prospecting on the RHYOLITE Claim Group in May 2019 confirmed the presence of rock types and mineralization historically reported.

The alteration zone that contains the Au-Ag mineralization sampled may be the BERTHA-MOLLY showing/adit (Minfile 092ISE012). The description is unclear in the Minfile data.

The Author did not locate all the historic referenced showings thought to be on the RHYOLITE claims referred to in historic reports but sampled outcrops from one trench area.

Elevated levels of Ag, Cu, Ni, Zn were found in all Samples MOL-1, MOL-2, MOL-8.

Elevated levels of Au were encountered in Samples MOL-1, MOL-2, MOL-8.

Cu values were pronounced in all samples resulting from visible copper mineralization.

Table I. Particulars - Grab Samples taken by ELLERBECK (2019) RHYOLITE

LOCATION / SAMPLE #	UTM LOCATION		DESCRIPTION
			All OUTCROP unless indicated
MOL-1 To Lab	0663396	5589680	Purplish/black vesicular and amygdaloidal (chlorite) andesite. Fine grained. Malachite stain. Highly altered. Visible metal throughout. Hard. Cuprite? Chalcocite. 'sheet', eye of chlorite. Dip-vert, strike N
MOL-2 To Lab	0663393	5589683	Bornite. Purplish/black vesicular, amygdaloidal chlorite, silicified, andesite. Fine grained. Malachite stain. Highly altered. Visible metal. Hard. Fractured. Cuprite? Chalcocite. 'sheet' of chlorite
MOL-3	0663407	5589698	Purplish/black vesicular, amygdaloidal chlorite, silicified andesite. Fine grained. Malachite stain. Highly altered. Visible metal. Hard. Fractured. Cuprite? Chalcocite. 'sheet' of chlorite
MOL-4	0663404	5589699	Malachite stained. Chloritized, altered vesicular andesite, brownish, shear zone, crumbly, visible metal
MOL-5	0663404	5589699	Vesicular andesite, purplish, large amygdules (calcite), crumbly shear zone, no visible metal, iron staining,
MOL-6	0663398	5589689	Vesicular andesite, purplish/brown, malachite stain, no visible metal, chlorite sheet, eyes, fractured, crumbly
MOL-7	0663397	5589689	Vesicular andesite, purplish/brown, malachite stain, no visible metal, chlorite sheet, eyes, fractured, crumbly
MOL-8 To Lab	0663397	5589683	Vesicular andesite, purplish/brown, malachite stain, visible metal (cuprite, chalcocite, galena) in sheet fracture fill, chlorite sheet, fractured, hard

TECHNICAL DATA AND INTERPRETATION**Table II. Summarized Assay Results- Grab Samples-Ellerbeck (May 2019) – RHYOLITE**

Sample No.	Sample Type	Cu ppm %	Pb ppm	Zn ppm	Au ppm	Ag ppm	Mo ppm
MOL-1	Grab	3.36	2	32	0.005	1.6	1
MOL-2	Grab	8.48	3	22	0.005	3.9	1
MOL-8	Grab	1.015	4	33	0.006	1.2	<1

PURPOSE

In May 2019 a prospecting program was completed on Tenure 1066816 of the 3 claim RHYOLITE CLAIM GROUP. The purpose was to locate, if possible, historic reported geological features (Au, Ag, Cu bearing structures) as well as to prospect for unidentified outcrops and showings of significance. The author wanted to locate trenching conducted by a previous operator and sample bedrock in the vicinity of the trenching. Report information was obtained from Selected References and from a May 20, 2019 property examination.

PROSPECTING RESULTS - Outcrops

Sample 1-8 inclusive: confirmed historic local/property and regional geological mapping.

ASSAY RESULTS

Elevated levels of Ag, Cu, Ni, Zn were found in all Samples MOL-1, MOL-2, MOL-8.

Elevated levels of Au, Ag were encountered in Samples MOL-1, MOL-2, MOL-8.

Cu values were pronounced in all samples resulting from visible copper mineralization.

INTERPRETATIONS AND CONCLUSIONS

The presence of mineralization in historic ARIS assessment report references within the RHYOLITE Claim Group was confirmed by sampling and assaying rocks from various outcroppings during the May 2019 prospecting program on Tenure 1066816.

This mineralization is similar to the previously reported mineralization located in old trenches within the RHYOLITE Claim Group. **The Author will need to confirm by further field work that the area sampled in May 2019 is the BERTHA-MOLLY adit area.*

SUMMARY AND RECOMMENDATIONS

The May 2019 field program confirmed reported geology and showed that significant mineralization is present in the host Nicola Group rocks within the RHYOLITE property.

There are numerous reported mineral occurrences within the RHYOLITE property which have not been examined by the writer.

There is geological mapping of the area by previous Operators which needs to be relocated in the field and mapped with current mapping methods.

Based on the results of research and compilation of historical exploration data on ground presently covered by the Rhyolite property, potential copper-gold porphyritic mineralization may be indicated at the **JHC area** from:

- ☐ surficial mineralization of up to 4.2 % copper and, a few scattered anomalous gold, silver, and copper values;
- ☐ sub surface mineralization and alteration in a drill hole with the lower portion of considerable pyrite in a siliceous, altered grey-green rock.

In the **Rhyolite area** (not examined May 2019), stratabound massive sulphide mineralization may be indicated based on;

- ☐ surficial pyrite concentrations of up to 20%, with minor chalcopyrite, azurite, malachite and sphalerite and anomalous gold (41 ppb), silver (4.1 ppm), copper (3770 ppm) and zinc (2183 ppm) values.

An exploration program of geochemical, geophysical, and geological surveys is recommended subsequent to the digitation of all historical exploration data. A correlation of historical data and the results of the recommended exploration program should provide specific targets for future exploration.

The 2019 field program assay results and the noted similarities of mineralization and host rocks to historic references indicate that a careful examination of the area at the **RHYOLITE, JHC and BERTHA-MOLLY** showings is warranted.

Therefore, it is recommended by the Author that a comprehensive prospecting plan be created and executed in the field as soon as practical to confirm and map the extent of the **RHYOLITE, JHC, and BERTHA-MOLLY** showings and the area between those showings.

ITEMIZED COST STATEMENT

Exploration Work type	BERTHA	Days		Totals
PROSPECTING & EXPLORATION				
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*
Ken Ellerbeck / Owner	May 20, 2019	1	\$500.00	\$500.00
Q. Ellerbeck / Helper	May 20, 2019	1	\$250.00	\$250.00
			\$500.00	\$0.00
			\$250.00	\$0.00
			\$500.00	\$0.00
			\$250.00	\$0.00
				\$750.00
				\$750.00
Office Studies				
List Personnel (note - Office only, do not include field days)				
Literature search	Ken Ellerbeck	1.0	\$500.00	\$500.00
Database compilation	Ken Ellerbeck	0.5	\$500.00	\$250.00
General research	Ken Ellerbeck	0.5	\$500.00	\$250.00
Report preparation	Ken Ellerbeck	1.0	\$500.00	\$500.00
Other (specify)				\$0.00
				\$1,500.00
				\$1,500.00
Ground Exploration Surveys				
Area in Hectares/List Personnel				
Prospect	see Personnel Field Days			
Underground				
Trenches				\$0.00
				\$0.00
Geochemical Surveying				
Number of Samples				
Soil	ALS MINERALS Vancouver	0.0	\$49.46	\$0.00
Rock	ALS MINERALS Vancouver	3.0	\$48.00	\$144.00
				\$144.00
				\$144.00
Transportation				
No. Rate Subtotal				
KM Kamloops-Property-return	1 DAY RETURN	150.00	\$0.95	\$142.50
KM SAMPLES TO LAB	May 30, 2019	51.00	\$0.95	\$48.45
				\$0.00
				\$190.95
				\$190.95
Accommodation & Food				
Rates per day				
Hotel			\$0.00	\$0.00
Camp			\$0.00	\$0.00
Meals	2 man-days @\$40/day	2.00	\$40.00	\$80.00
				\$80.00
				\$80.00
Miscellaneous				
Telephone			\$0.00	\$0.00
Other (Specify)				
				\$0.00
				\$0.00
Equipment Rentals				
Field Gear (Specify)			\$0.00	\$0.00
Other (Specify)				
				\$0.00
				\$0.00
Freight, rock samples				
			\$0.00	\$0.00
			\$0.00	\$0.00
				\$0.00
				\$0.00
TOTAL Expenditures				\$2,664.95

STATEMENT OF AUTHOR'S QUALIFICATIONS

STATEMENT OF AUTHOR'S QUALIFICATIONS**KENNETH C. ELLERBECK, PMP**

I hold a BSc in Mechanical Engineering, University of Alberta, Edmonton, 1973.

I have completed University level introductory geology courses.

I hold a Certificate in Project Management from University of British Columbia, Sauder School of Business, 2010.

I hold a Project Management Professional designation – PMP – 1391810 – 2011.

I have been actively involved in all aspects of mineral exploration since 1980 in the Province of British Columbia.

I have managed staking and exploration programs since 1980 on my own mineral tenures as well as for tenures held by both private and publicly-held junior exploration companies.

My mineral exploration experience includes staking, prospecting, trenching, trench mapping, line cutting and grid construction, geochemical surveys, geophysical surveys, diamond drilling supervision and general exploration program supervision.

SIGNED



KENNETH C. ELLERBECK

LIST OF SELECTED REFERENCES

BC Geological Survey, MEMPR, MINFILE : 092ISE147 JHC. 092ISE021 RHYOLITE. 092ISE012 – BERTHA – MOLLY

British Columbia Survey Branch, The Map Place.

MTOnline

Map 886 A, Nicola, (Geol.) Sc. Accomp. Memoir 249, Geol. Survey of Canada (1948).

EMPR AR 1929-228; 1930-195; 1942-A26,A69; 1955-37; 1956-46; 1958-29; 1959-38,143

Cochrane, D.R. et al – Geophysical Report on an Induced Polarization Survey of the PLUG Claims on behalf of Texada Mines Ltd. October 24, 1972. AR 4,041.

Crooker, G.F. PGeo., January 2007, GEOLOGICAL, GEOCHEMICAL AND PROSPECTING REPORT, on the PLUG, PLUG-A, PLUG 1-31, PLUG 11-A, MEADOW, MEADOW-A, WALL 2, 5-7 AND 9 MINERAL CLAIMS, for GOLDCLIFF RESOURCE CORPORATION, AR28815.

Crooker, G.F. – Geological, Geochemical and Geophysical Report on the WRT 1 to 6 and 9 to 15 Claims for Western Resource Technologies Inc. November, 1988. AR 18,048.

Crooker, G.F. – Geological, Geochemical and Geophysical Report on the WRT 1 to 15 Claims for Western Resource Technologies Inc. March, 1998. AR 17,337

Crooker, G.F. - GEOPHYSICAL Report on the LC-1 and HOM 1 to 6 Claims, Logan Lake Area, Kamloops Mining Division, 921-7E for G.F. Crooker. AR 22366

Cukor, V. Report on Geochemical, Geophysical and Geological Reconnaissance for Visa Resources Ltd. May, 1982. AR 10,551. Report on Ground Magnetic Survey for Visa Resources Ltd. June, 1983. AR 11,296.

DeLeen, J. et al – Magnetometer and Geochemical Report on the PLUGS Claims on behalf of Texada Mines Ltd. December 8, 1972. AR 4,041.

Sookchohoff, L. P.Eng – Geophysical Assessment Report on the SED Mineral Claim for Balto Resources Ltd. June 25, 2012. AR 33,127.

Sookchohoff, L., P. Eng., June 5, 2013, GEOPHYSICAL ASSESSMENT REPORT, BALTO RESOURCES LTD., SED MINERAL CLAIM, AR33849.

Sookchohoff, L. PEng for Aurora Capital Corp. 2006, Katrina Claim, AR 28671

LIST OF SOFTWARE PROGRAMS USED

ADOBE PHOTOSHOP 7.0

PAINT for WINDOWS

ARIS MAPBUILDER – Map Data downloads

Imap BC – Map Data downloads

MtOnline - MINFILE downloads.

APPENDIX 1 SAMPLE PREPARATION AND METHOD OF ANALYSIS



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: KEN ELLERBECK
255 WEST BATTLE STREET
KAMLOOPS BC V2C 1G8

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 5-JUN-2019
This copy reported on 6-JUN-2019
Account: ELLERK

CERTIFICATE KL19128924

This report is for 7 Rock samples submitted to our lab in Kamloops, BC, Canada on 28-MAY-2019.

The following have access to data associated with this certificate:
KEN ELLERBECK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
Cu-OG46	Ore Grade Cu - Aqua Regia
Au-AA23	Au 30g FA-AA finish
ME-ICP41	35 Element Aqua Regia ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia

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

SAMPLE PREPARATION AND METHOD OF ANALYSIS



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 5-JUN-2019
Account: ELLERK

CERTIFICATE OF ANALYSIS KL19128924

	CERTIFICATE COMMENTS
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada. CRU-31 LOG-22 PUL-31 PUL-QC SPL-21 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-AA23 Cu-OG46 ME-ICP41 ME-OG46

APPENDIX 2 ASSAY RESULTS



ALS Canada Ltd.
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Page: 2 - A
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 5-JUN-2019
Account: ELLERK

CERTIFICATE OF ANALYSIS KL19128924

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
DES-6		0.50	<0.2	2.67	3	10	20	0.5	<2	0.89	<0.5	24	93	83	4.92	10
DES-7		0.39	<0.2	1.72	<2	10	20	<0.5	<2	1.43	<0.5	31	201	100	5.37	10
89-2		0.19	<0.2	2.90	3	10	10	0.5	<2	2.38	<0.5	26	131	214	5.41	10
OC		1.35	<0.2	1.54	3	<10	10	<0.5	<2	2.13	<0.5	14	104	14	2.35	<10
MOL-1		1.81	1.6	1.81	5	10	20	0.5	7	4.98	<0.5	16	48	>10000	4.01	10
MOL-2		2.00	3.9	1.48	5	10	10	0.5	<2	4.12	<0.5	10	31	>10000	3.98	10
MOL-8		1.51	1.2	2.91	3	20	40	0.7	4	5.43	<0.5	13	50	>10000	3.75	10

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

ASSAY RESULTS



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Page: 2 - B
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 5-JUN-2019
Account: ELLERK

CERTIFICATE OF ANALYSIS KL19128924

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1	ppm 20
DES-6		<1	0.18	10	2.40	693	1	0.99	48	1280	<2	0.01	2	6	27	<20
DES-7		<1	0.04	10	2.79	757	<1	0.05	95	1460	2	<0.01	<2	3	30	<20
89-2		<1	0.06	<10	2.62	646	1	0.06	66	1140	<2	0.04	<2	12	69	<20
OC		<1	0.01	<10	1.59	490	<1	0.04	60	530	2	0.01	3	5	31	<20
MOL-1		<1	0.05	10	1.16	590	1	0.07	26	1860	2	0.76	<2	7	115	<20
MOL-2		<1	0.02	10	0.83	360	1	0.05	18	1480	3	1.63	<2	5	100	<20
MOL-8		<1	0.05	10	1.07	629	<1	0.25	21	1830	4	0.20	<2	5	111	<20

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

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Page: 2 - C
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Finalized Date: 5-JUN-2019
Account: ELLERK

CERTIFICATE OF ANALYSIS KL19128924

Sample Description	Method Analyte Units LOD	ME-ICP41 Ti %	ME-ICP41 Ti ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Cu-OG46 Cu %	Au-AA23 Au ppm
DES-6		0.20	<10	<10	130	<10	62		0.015
DES-7		0.07	<10	<10	157	<10	57		0.005
89-2		0.41	<10	<10	179	<10	63		<0.005
OC		0.33	<10	<10	74	<10	31		<0.005
MOL-1		0.20	<10	<10	139	<10	32	3.36	0.005
MOL-2		0.15	<10	<10	111	<10	22	8.48	0.005
MOL-8		0.19	<10	<10	176	<10	33	1.015	0.006

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

FILING PROOF ATTACHED

5/26/2019



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: ELLERBECK, KENNETH
CECIL (107608)
Recorded: 2019/MAY/26
D/E Date: 2019/MAY/26

Submitter: ELLERBECK, KENNETH
CECIL (107608)
Effective: 2019/MAY/26

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: 5742521

Work Type: Technical Work
Technical Items: Prospecting

Work Start Date: 2019/MAY/20
Work Stop Date: 2019/MAY/20
Total Value of Work: \$ 2712.95
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub-mission Fee
1064406	RHYOLITE HOMFRAY	2018/NOV/10	2020/DEC/31	2021/MAR/31	90	411.49	\$ 507.31	\$ 0.00
1066816		2019/FEB/25	2019/DEC/01	2021/MAR/31	486	226.39	\$ 1609.51	\$ 0.00
1067470	HELLO MOLLY	2019/MAR/27	2020/MAR/27	2021/MAR/31	369	61.75	\$ 312.15	\$ 0.00

Financial Summary:

Total applied work value:\$ 2428.97

PAC name: KEN ELLERBECK
Debited PAC amount: \$ 0.0
Credited PAC amount: \$ 283.98

Total Submission Fees: \$ 0.0

Total Paid: \$ 0.0

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1/1