

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

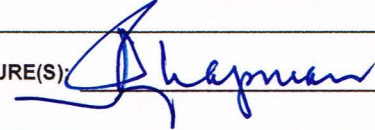
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Technical - Soil Geochemical Survey

TOTAL COST: \$32,106.79

AUTHOR(S): Bruce E. Bried, John A. Chapman

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): NA

YEAR OF WORK: 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5677331

PROPERTY NAME: SPIUS

CLAIM NAME(S) (on which the work was done): Tenures: 1040680, 1040681, 1040682, 1041084, 1042505, 1044594

Claims: SPIUS15A, SPIUS15B, SPIUS15C, SPIUS15D, SPIUS16A, SPIUS16B

COMMODITIES SOUGHT: Cu, Mo, Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HNW027

MINING DIVISION: NICOLA AND NEW WESTMINSTER

NTS/BCGS: 92H/14

LATITUDE: 49 ° 55 ' 05 " LONGITUDE: 121 ° 16 ' 01 " (at centre of work)

OWNER(S):

1) Michael A. Blady (25%)

2) John A. Chapman (25%)

Gerald G. Carlson (25%)

Christopher R. Paul (25%)

MAILING ADDRESS:

206-3500 Carrington Road, West Kelowna, BC, V4T 3C1

43-1725 Southmere Cres., Surrey, BC, V4A 7A7

1740 Orchard Way, West Vancouver, BC, V7V 4E8

206-3500 Carrington Road, West Kelowna, BC, V4T 3C1

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

1) Bruce & Patricia Bried

2) _____

MAILING ADDRESS:

6140 48A Avenue, Delta, BC, V4K 1Y8

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

Mt Lytton Batholith, Eagle Granodiorite, Quesnel Terrane, Porphyry Cu-Mo

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 3052, 5389, 6145, 33913, 36631 and Property Files: 8727, 8729

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 167 samples (multi-element analysis)	_____	1040680, 1041084	\$30,106.79
Silt	_____	_____	_____
Rock 3 samples (multi-element analysis)	_____	1040680, 1041084	\$2,000.00
Other	_____	_____	_____
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
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:	\$32,106.79

ASSESSMENT REPORT (Statement of Work Filing, Event Number 5677331)

**Soil Sample Survey (2017)
Spius Mineral Property, Southwestern British Columbia,
Canada**

Mineral Tenure Names: SPIUS15C, SPIUS15B, SPIUS15A, SPIUS15D,
SPIUS16A, SPIUS16B

Mineral Tenure Numbers: 1040680, 1040681, 1040682, 1041084, 1042505, 1044594

Location:

Spius Creek, New Westminster and Nicola Mining Divisions, British Columbia
NTS Map 092H/14

Longitude 121⁰ 16' 01" W, Latitude 49⁰ 55' 05" N

UTM NAD 83, Zone 10N: Easting 624405mE, Northing 5530970mN

Owners and Optionors:

Michael A. Blady (25%, FMC no. 278776), Gerald G. Carlson (25%, FMC no.
104271), John A. Chapman (25%, FMC no. 104633), Christopher R. Paul (25%,
FMC no. 269478)

Optionee and Operator:

Bruce and Patricia Bried
6140 48A Avenue
Delta, B.C., V4K 1Y8

Authors of this Report:

Bruce E. Bried, D.Tech., B.Sc., P.Eng.
John A. Chapman, D.Tech., B.Sc., FCIM

December 15, 2017 (amended September 26, 2018)

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1. SUMMARY

The Spius mineral property (the “Property”) is located in the Nicola and New Westminster Mining Divisions, 40km southwest of the city of Merritt, BC and 10km east-northeast from Boston Bar (straight-line distances). The Property is in the Spius Creek watershed centered at approximately 49°55’05” N latitude and 121°16’01” W longitude on NTS map sheet 92H/14 and is known in MINFILE as the “Gossan Showing” (No. 092HNW027). The Property is comprised of 6 mineral claims covering 2,101 hectares, held by John A. Chapman (25%), Gerald G. Carlson, on behalf of KGE Management Ltd., (25%), Christopher R. Paul (25%) and Michael A. Blady (25%). The claims are in good standing to 2021 and 2022.



Figure 1 – A significant gossan at Spius, UTM NAD83 Zone10N 623745mE/5530730mN

The Spius claims are accessed from Merritt by heading SE for 25km on Coldwater Road to the well-maintained Patchett/Spius FSR (see Figure 4). The Spius Creek FSR then continues into the Property to near the southern boundary of tenure 1040680, becoming heavily overgrown with Alder bushes for the last two kilometers before reaching the Shearer anomaly. From the Shearer anomaly, a partially overgrown road, switchbacks northward up a moderate slope from

the Spius Creek road and across the area of historical mineral exploration work. Murray Mining Ltd. N.P.L. constructed most of these mining roads on the Property, including the logging road extension from Boston Bar to the Property in 1969.

The regional geologic setting is within the Eagle Plutonic Complex while the rocks within the Property are mainly biotite-hornblende granodiorite, feldspar porphyry and quartz-feldspar porphyry intruded by felsic and lamprophyre dikes. Alteration minerals on the Property include: azurite, malachite, chalcocite, kaolinite, sericite, chlorite, quartz (silicification) and sulfides (iron, copper and molybdenum). Major northwest and northeast linears tend to focus at and near the Property which lies within an aeromagnetic high centered over the glacial overburden containing high Cu-in-soils (Carlson, 2017).

The many roads within the Property were built in the 1960's in order to facilitate percussion drilling and minor diamond drilling of a molybdenum soil anomaly, on the west side of the Property and within a felsic stock that indicated a porphyry Cu-Mo system. The results of the 1960's soil sampling as well as the drilling were not made public and despite exhaustive research, have not been located. Soil samples collected, more centrally on the claims, along the switchback roads in 1972 revealed a roughly 1000m x 400m NNW-trending >800ppm Cu-in-soil anomaly to the east of the molybdenum anomaly in a mostly glacial overburden covered area that shows a magnetic high (George, 1976). R.L. George, B.Sc. in his September 2, 1976 Assessment Report No. 6145 conclusions stated, "Further work should be concentrated in this area as relatively little work has been done in the area overlying the main copper anomaly." However, there was no follow up because the Japanese metal (mainly copper and molybdenum) Super Cycle of the 1960s and 1970s ended and metal prices fell, staying low in real dollar terms until 2010. In 2012 J.T. Shearer, M.Sc. followed up on the 1976 George recommendation and made a significant new Cu-in-soils discovery along the Spius lower access road (see Assessment Report No. 33913) approximately 250m south of the old Cu-in-soils anomaly. These discoveries by George and Shearer caused John A. Chapman to acquire the claims in 2016, when next they came open, for the current owners to hold and explore.

Work by the current owners in 2016 and 2017 has confirmed and expanded the very high grade Cu-in-soils anomaly in the central part of the Property (see Figures B2 and B7 in Appendix B). In addition, prospecting in 2016 Chris Paul located a large angular felsic float boulder, containing impressive potassic and sericitic alteration and disseminated chalcopyrite and bornite which assayed 2.53% Cu. The boulder is located topographically above and to the west of the area of historic drilling. In 2017 Bruce Bried located a similar felsic float boulder nearby grading 1.43% copper (downslope ~100m east and ~25m south).

The Authors' recommendation in this Report has been made to drill 11 vertical core holes (3300m) equally spaced across this central very high Cu-in-soils anomaly. It is highly probable that these holes will intersect, in the underlying rock, a significant portion of what may be the porphyry copper "shell" outside the Potassic and within the Phyllic portions of the central felsic stock. In support of this porphyry copper model: (1) Alfred Allen, M.Sc., in his March 7, 1970 report stated, "The strongest copper and molybdenum mineralization encountered to date has been in and near zones of faulting and shearing often accompanied by silicification and quartz-

K-feldspar veins.”, (2) Patrick Gannon, Geologist, in his August 8, 1974 report stated, “The better sulphide mineralization is associated with weak argillic alteration and minor and sporadic chlorite in quartz eye porphyry (dacite porphyry).” and (3) R.L. George, in his September 1976 report stated, “the occurrence of a large , high value Cu soil geochemical anomaly over an area of strong sericitization is good evidence for a hydrothermal Cu deposit on the Property.”

It is important to note that the Spius property is located within the B.C. Beetle Salvage Zone and is qualified for 30% METC (tax credit).

Special Note: The Authors of this Report have used much of the wording from Christopher R. Paul’s (our associate) Spius Assessment Report No. 36631 filed in 2016. The new work done in 2017 is the soil survey – hence there is no change to geology (regionally or locally).

2. INTRODUCTION

The Spius property holds the potential for the discovery of a significant porphyry copper-molybdenum deposit that is well located near road and power infrastructure in SW British Columbia. The claims cover a MINFILE porphyry Cu-Mo showing (092HNW027) known as the “Gossan”. The Property is 2,101 hectares in size, centred on the headwaters of Spius Creek. Access to the Property is via the Spius Creek FSR (see Figures 2 and 4).

This Report documents the results of a soil sampling program conducted on the Spius Property in the summer of 2017 by Bruce Bried, following the recommendation of George, 1976.

Given the proximity to existing major mines in the area (Craigmont, Highland Valley Copper and Copper Mountain) and the excellent infrastructure and local resources in the nearby service center of Merritt, the Spius property is very well located for a commercial mining operation. The Cu-Mo mineralization and intense alteration observed suggest the presence of a large hydrothermal system with a zoned pattern of alteration, characteristic of porphyry copper-molybdenum systems. Only a very small portion of the 2,101ha of prospective ground staked has been drill tested (Authors are unable to locate old drill results). Given the similarities in geology (granodiorite batholith), age (Late Triassic-Early Jurassic), genetic relations (Quesnel Terrane) and alteration (EDM veins and large secondary muscovite) to the nearby Highland Valley Copper Mine, good potential exists for the discovery of a similar bulk-tonnage copper-molybdenum porphyry deposit.

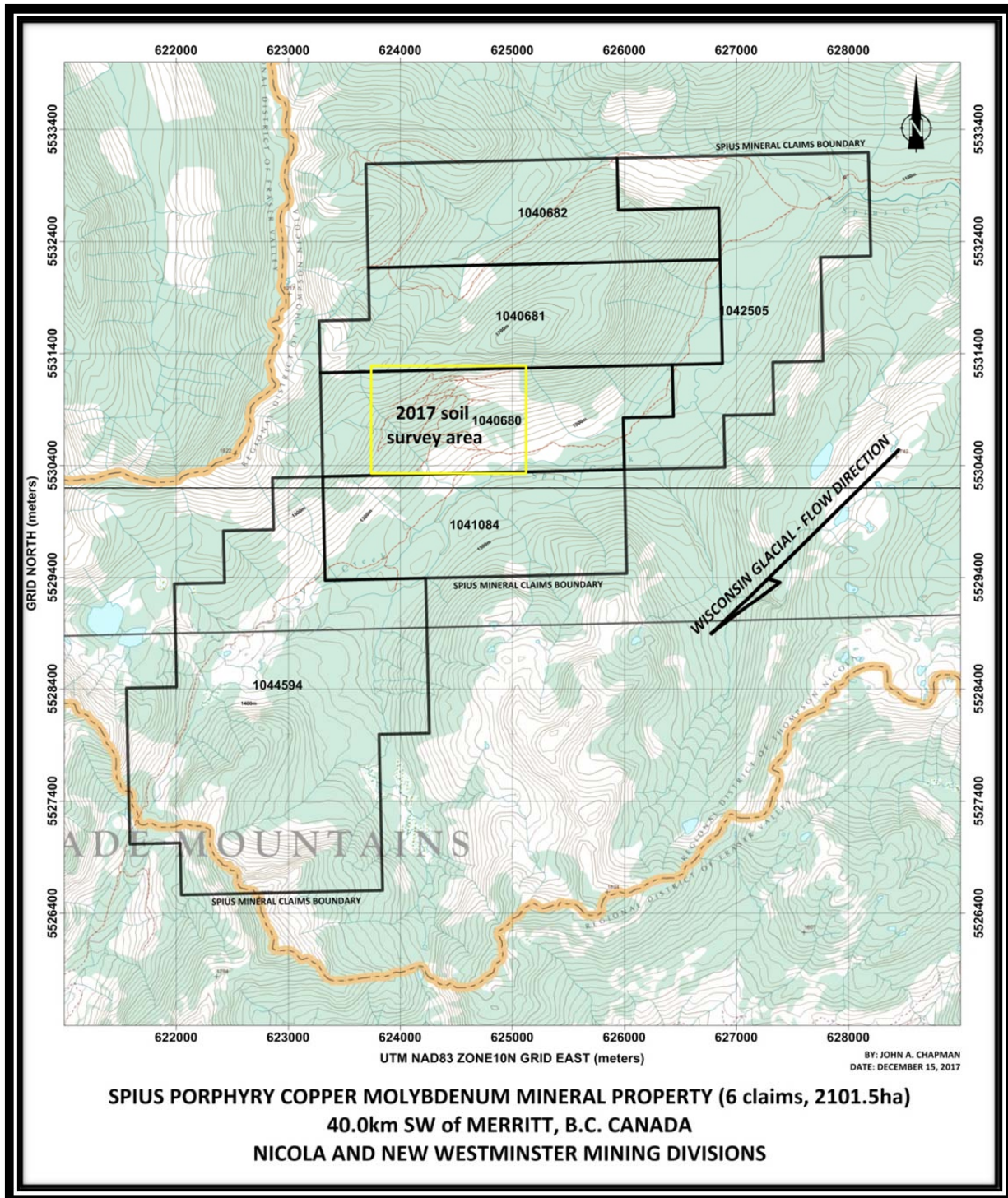


Figure 3 – Spius mineral claims showing 2017 survey area and glacial direction

4. MINERAL TENURES AND OWNERSHIP

The Spius property is comprised of 6 mineral claims covering 2,101 hectares, held by John A. Chapman (25%), Gerald G. Carlson (25% - held on behalf of KGE Management Ltd.), Christopher R. Paul (25%) and Michael A. Blady (25%). The Spius mineral claims are in good standing to 2021 and 2022 (see Figure 3 and Table 1), following a statement of work filed for work documented in this Report. The Property is under Option to Purchase with Bruce and Patricia Bried (Bruce Bried is a well-educated and well-experienced professional mining engineer).

Tenure Number	Type	Claim Name	Good Until	Area (ha)
1040680	Mineral	SPIUS15C	20220211	270.4675
1040681	Mineral	SPIUS15B	20220211	312.0228
1040682	Mineral	SPIUS15A	20220211	249.5759
1041084	Mineral	SPIUS15D	20220211	249.7077
1042505	Mineral	SPIUS16A	20220211	332.8044
1044594	Mineral	SPIUS16B	20210611	686.9101

Total Area: 2101.4884 ha

Table 1 – Spius Mineral Tenures Status

5. ACCESSIBILITY, CLIMATE, PHYSIOGRAPHY, LOCAL RESOURCES AND INFRASTRUCTURE

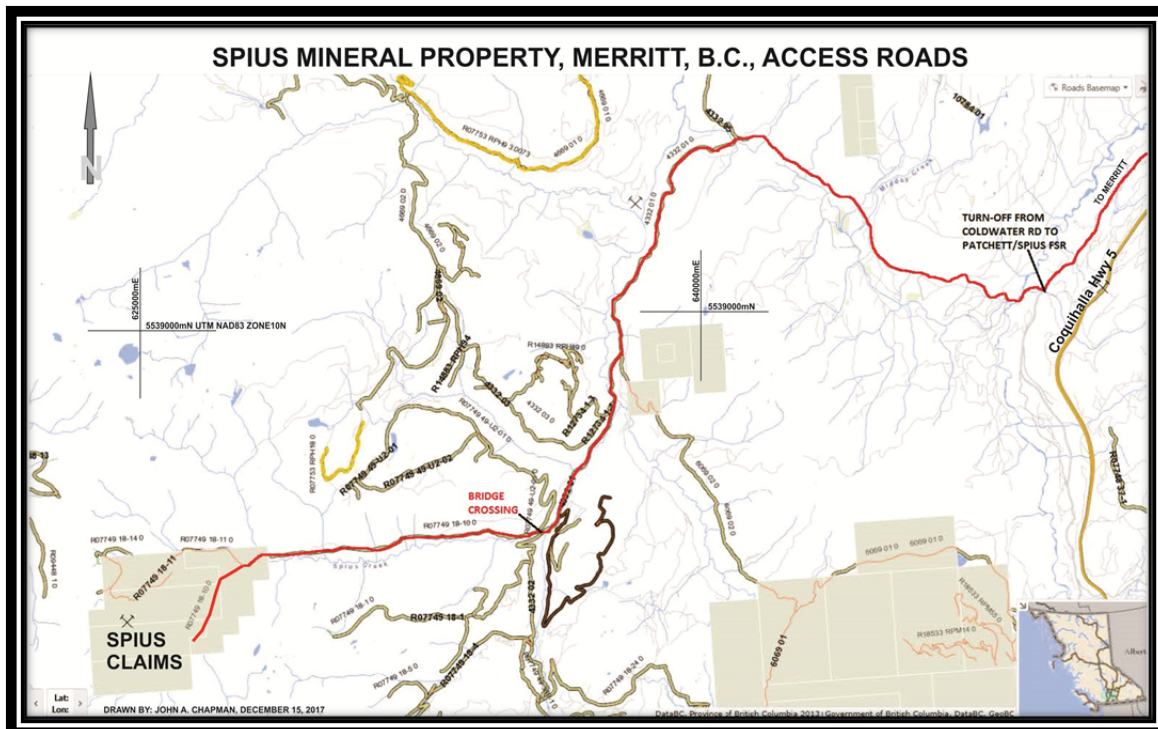


Figure 4 – Access to Spius property from Coldwater Road south of Merritt

5.1 Access

The Spius mineral property is located in southwestern British Columbia (Figure 4), 40kms SW of the city of Merritt, BC (straight-line distances). The Property is centered at approximately 49°55'05" N latitude and 121°16'01" W longitude on NTS map sheet 92H/14.

The Spius claims are accessed from Merritt by heading southeast on Coldwater Road for 25 km and then west onto Patchett Road, a ranch road which ends at kilometer 11 and becomes the Spius Creek FSR, which is also the boundary of cellular service. At km 25, a right turn is made over a bridge across Spius Creek, followed by an immediate left onto the unmaintained final section of the Spius Creek FSR, which continues for another 8.4km, where it forks upon entering the Property. A right turn at the fork traverses the northern section of the claim block, while a left turn continues along the north side of Spius Creek and becomes heavily overgrown with Jack pine, Alder and Willow bushes for ~8.5km across the entire EW length of the Property. An exploration road (circa 1968) switchbacks north across the area of historical mineral exploration work up from the Spius Creek FSR (Murray Mining Ltd. N.P.L. 1969 access road). This road is in many places grown over with Hemlock and Alder. Alternatively, a helicopter can be chartered from Merritt or Hope, approximately a 30 minute ferry time from the Property. Aspen Planers Ltd. plans to upgrade the Spius Creek FSR road at and upstream (to ~km 32) from the Property in 2018.

5.2 Climate, Topography and Vegetation

Geographically, the claims lie along the eastern edge of the Pacific coastal mountains. Elevations range from 1100m at Spius Creek to 1,840m at the highest point in the headwaters. The claims are centered on Spius Creek, with the mineral showings situated on a moderately steep south facing slope. Most rock outcroppings are limited to higher elevations and creek drainages. Seasonal exploration surveys can commence from about early June and normally end by late October. The Spius project area lies within the transition zone between the rugged Coast Mountains to the west and the rolling Interior Plateau physiographic province to the east. Relief is modest on the claims, generally less than 600m, with a mean elevation of 1400masl. Topography is dominated by rocky ridges, which transition downward into colluviated slopes, with alluvial covered valley bottoms.

The climate is characterized by warm summers with temperatures ranging from 10 to 30° C and cold winters typically in the -10 to -15° C range. The claims are situated just west of the interior rain shadow, and as such receive abundant precipitation carrying over from the Coast Mountains.

Vegetation is mixed but consists primarily Spruce, Hemlock, Alder with the odd Douglas fir, Cedar, Cottonwood and Mountain Ash on the lower slopes, changing to Hemlock, Spruce, Alder, and short brush on the slopes within and above the 1960's Spius drill road network.

5.3 Local Resources and Infrastructure

Logging has been, and continues to be, very active in and around the Spius area as one of the region's largest and premium lumber mills is located at Merritt (Aspen Planers Ltd., operating since 1959). Infrastructure in the region includes a well maintained network of logging roads.

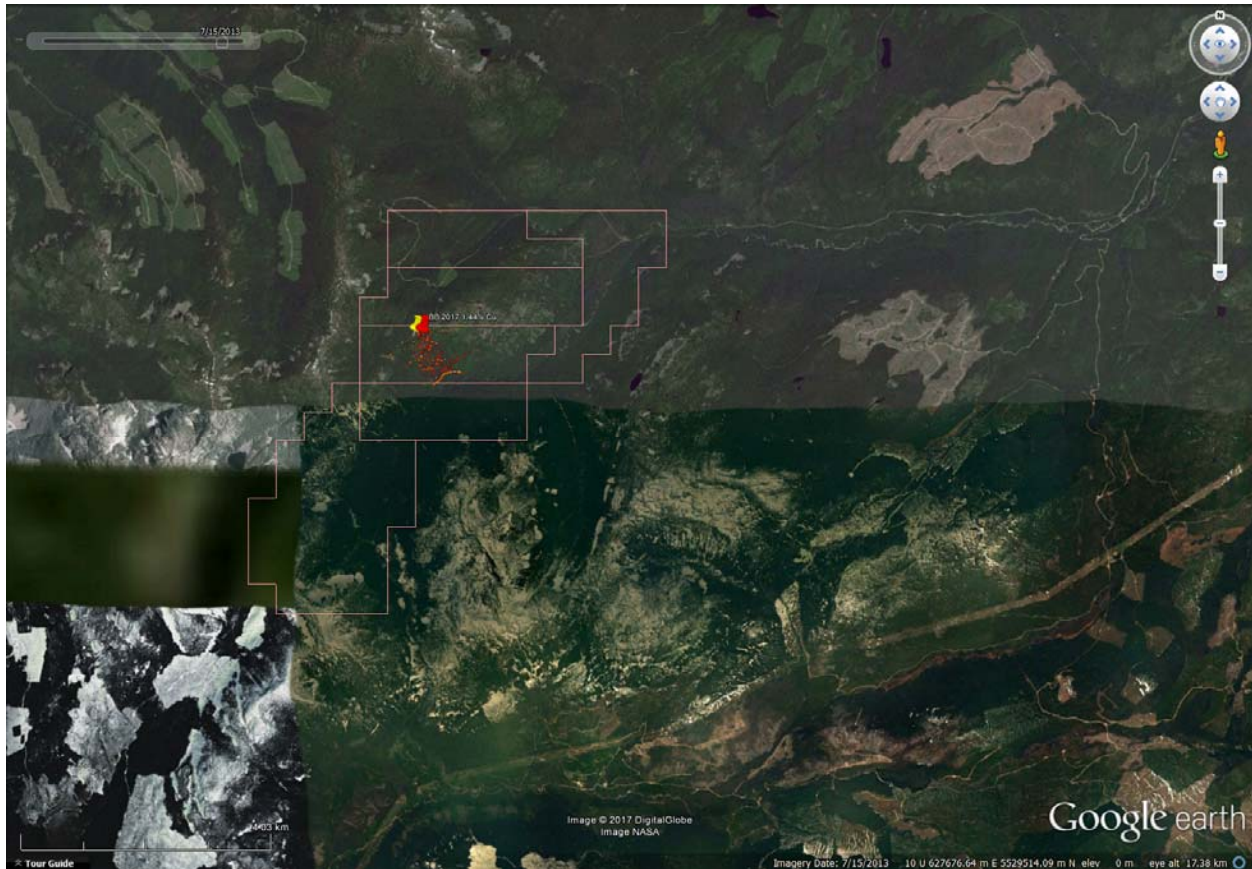


Figure 6 – Google Earth image (2013) of Spius showing BCHydro 500KV grid powerline at south end of Property and clear-cut logging areas, as at 2013

6. EXPLORATION HISTORY

1968 - Orequest Exploration Syndicate (Granby Mining Company Limited, Home Oil Company Limited and Chieftain Development Co. Ltd.) optioned the Property from local prospectors Clayton S. (Slim) Powney and John (Jack) E. Nott and carried out trenching, geophysical and geochemical surveys, geological mapping and five diamond drill holes. Mapping revealed widespread mineralization containing appreciable pyrite along with some chalcopryite and lesser chalcocite and molybdenite. Assays of the soil samples for copper and molybdenum showed sizeable parallel anomalous zones extending down the side hill (Allen, 1969) with very high values up to 7000ppm Cu (George, 1976). The diamond drill holes were located in the center of the Property, mostly within a feldspar porphyry intrusion, previously interpreted as causative to a porphyry Cu-Mo system, located near the top of the slope within the high-grade Cu-in-soil anomaly. Results of the drilling were not made available; however, a later Property File reports that DDH#2 intersected copper mineralization in the bottom 60ft (141ft to 199ft), with the last 8ft ending in 0.42% Cu (Allen, 1969).

1969 - Murray Mining improved and re-located a portion of the access road from Merritt and constructed over 8 miles of new road to connect with logging roads leading into Boston Bar. In

addition, trenches and switchback roads on the Property were cleared and extended. An electromagnetic survey over a 100ft x 400ft grid was completed over part of the area. A 1700-foot-long EM conductor striking north 65 degrees east was indicated on the southwest side of Canyon Creek (west side of Property), in thin overburden. The field distortion was strong and interpreted to be the result of sulphide mineralization at shallow depth. Higher up the slope, ten percussion holes were drilled to a maximum depth of 300ft to the east of Canyon Creek, with the closest hole being 400ft north and 200ft higher than the EM conductor zone. Each hole contained considerable pyrite; however no significant copper-molybdenum mineralization was intersected (Allen, 1969).

1970 – Arrow Inter-America Corporation (Wholly owned subsidiary of W.R. Grace & Co.) conducted an IP survey, which revealed that most of the rocks underlying the grid to a depth of 300ft contain 1-3% by volume of sulphide minerals. Observed IP chargeability values range from 1.0 to in excess of 30.0 milliseconds (ms). Most of the survey area exhibited chargeability responses in excess of 10.0ms, which is a moderate chargeability level by normal standards. It was concluded that since the increased chargeability responses are so widespread, that it was difficult to recommend targets for further investigation based on the geophysical results alone (Fominoff, and Baird, 1970). A 1976 report by Canadian Occidental Petroleum Ltd. indicates that Arrow Inter-America Corporation also conducted a magnetometer and soil geochemical survey and geologically mapped the area; however the results are not available (George, 1976)

1971 – Brascan Resources Limited drilled 7 diamond drill (core) holes on the Property, the results of which are not available, nor discussed in any later reports. The collar locations are shown on a 1974 compilation map by Brascan (B.C. MapPlace Property files 8727 and 8729). They appear to have been drilled on a 500m grid pattern (Paul, 2016) – none were within the later defined high-grade Cu-in-soils anomaly.

1974 – Brascan Resources Limited carried out 8,400ft of road work and 6,300ft of trenching using a TD25B Track Dozer (equivalent of a D-8). After the work program, the reclaimed workings were inspected to the satisfaction of the local Forest Ranger, and representatives of the Reclamation and Fish and Wildlife offices. The road cuts and trenches tested an alluvium covered area having a coincident magnetic high, chargeability low, >500ppm Cu-in-soil, and a molybdenum anomaly. Mapping of the trenches found that better copper mineralization is associated with pink feldspar and quartz veining. Alteration minerals including secondary muscovite, biotite, quartz (silicification) and feldspars were noted (Gannon, 1974).

1976 – Canadian Occidental Petroleum Ltd. spent two days collecting approximately 100 soil and stream sediment samples, as well as examining outcrops on the property. The results corresponded quite well with Orequest's prior survey, returning values of up to 2970ppm Cu and 230ppm Mo. Contouring of the values delineated an area of 2000ft x 1500ft of >500 ppm Cu in the central part of the grid, surrounding an area of 2000ft x 400ft of >1000ppm Cu, open to the south and oriented NNW, at a slight angle to the downslope direction (see Appendix B, Figure B5). Nine stream sediment samples returned values from 120ppm – 3600ppm Cu, with 5 values of >1000ppm Cu. The conclusions and recommendations of the 1976 report were

that further work should be concentrated in the central area, bearing the large high value Cu soil geochemical anomaly and strong sericite alteration, as all of the historic drilling had been focused outside of this zone (George, 1976). No further work however was conducted by Canadian Occidental on the Spius claims mainly due to falling copper prices. See Appendix D which contains George's conclusion and recommendations – in the opinion of the Authors this is the best summary information on the Property for pre 1976 exploration.

2012 – J.T. Shearer Mineral exploration work done on Spius by Jo Shearer, M.Sc., P.Geo in 2012 and reported in his Assessment Report No. 33913, dated September 22, 2012, is significant in that he discovered a 140 meter wide copper-in-soils high-grade anomaly (B-horizon) described in Figure 12 of his report (centered at NAD83 Zone10N: 624705mE, 5530506mN). The nine contiguous soil samples (Si16 to Si24, all perpendicular to the slope (EW)) ranged in values from 1140ppm Cu to 4640ppm Cu and averaged 2000ppm copper. Based upon copper-in-soil anomalies reported in Special CIM Volumes 15 (1976) and 46 (1995) at producing or past producing mines this Spius copper anomaly is very significant – notably when combined with Spius Cu-in-soils high-grade anomalies reported by Canadian Occidental Petroleum Ltd., Minerals Division in their 1976 Assessment Report No. 6145 (size of copper anomaly at >1000ppm copper is 800m at 325d azimuth by 150m wide at 55d azimuth). Refer to attached Spius soil geochemistry map.

2016 – Chris Paul & Gerald Carlson Blady (geologist), Carlson (geologist), Chapman (mining engineer) and Paul (geologist) acquired MTO mineral claims over the “Gossan” Showing (MINFILE No. 092HNW027) in 2015 and 2016, and conducted geological and geochemical exploration work on the Property (called Spius). In 2016 a concerted effort was made by the Property owners to find old drill records, but to no avail. Also, in 2016 Chris Paul, B.Sc. (geology) returned to the Shearer copper anomaly and took a B-horizon soil sample – it (A2012693) returned a total copper value of 2758ppm (Met-Solve Analytical Services Inc., Certificate of Analysis MA0028-JUN16), thereby confirming the high-grade tenor of Shearer's 2012 soil survey copper anomaly. In addition, Chris Paul submitted soil sample A2012693 from the Shearer anomaly to determine the copper sulfide vs copper oxide content. See Met-Solve Certificate of Analysis: MA0028-JUN16-R1 using IMS-130 (Aqua Regia) for sulfide and SQL-AS1 (5% sulfuric acid at ambient) for oxide. Results show 39% sulfide and 61% oxide, indicating that a sulfide source (mechanical transport) is nearby and that the anomaly is not just hydromorphic. See Paul, 2016.

7. GEOLOGICAL SETTING AND MINERALIZATION

7.1 Regional Geology

The regional geological framework is prominently marked by a major break along the Fraser River and the Fraser River-Straight Creek fault system. The fault system represents a suture-like zone between 2 accreted terranes (Cadwallader and Bridge River terranes) and has produced a zone of ductile deformation favourable for hosting mineralization. The general claim

area is underlain by the Mount Lytton Complex, a major, 160-km-long intrusive complex trending northwest through southcentral British Columbia. About 6 miles to the west, the granitic rocks are in faulted contact with sediments of the Lower Cretaceous Jackass Mountain group.

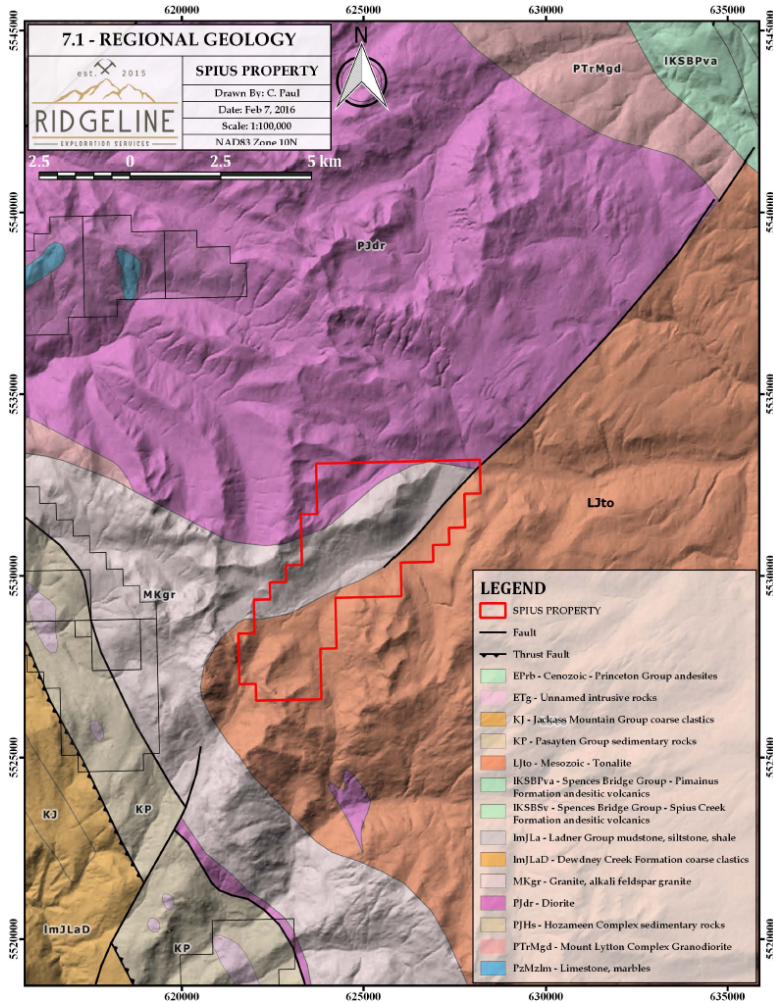


Figure 7 – Spius Regional Geology

7.2 Property Geology

No geological work was done on the Property in 2017 so refer to Paul, 2016 – Assessment Report 36631 to view Property Geology.

7.3 Mineralization

The 2017 work was focused upon the soil geochemical program, so no additional mineralization was defined since Paul's work in 2016, other than finding an altered felsic float boulder grading 1.43% copper (disseminated) at 624250mE/5531044mN (see Appendix A).

8. 2017 WORK PROGRAM – SOIL SAMPLE SURVEY

The soil sample work program on the Spius property in 2017 was late due to a heavy snow pack, with snow still on the upper elevations into mid-June. And then like the rest of the Province it was very hot for the rest of the summer. By early August the bush was very dried out, except for the areas at the bottom of the drainages. Spius Creek even 10km downstream from the Property was just a trickle compared to the freshet in June/July.

The first 25km of the access road, to the Spius project from the Coldwater Road (paved) was kept in excellent shape by Aspen Planers Ltd., who graded the first 11km of the Pachett Road and the next 14km of the Spius Road at least twice during the summer. Active logging was being conducted SW of the Spius Creek bridge at kilometre 25.

The road on the North side of Spius Creek that accesses the Property has had zero maintenance for a number of years, but has a good solid road base. The first 8.5km (from km 25) from this bridge had numerous deadfalls across it and one mudslide that had to be shovelled to get around it. There were also a few places that required that the slide Alder that had encroached onto the roadway had to be cut back a couple of times during the summer. The logging road, from 33.5km to 36km had both Jack pine and slide Alder that had to be brushed back and needs a mid-sized dozer to clear the road surface. The old mining access road from 36km to 37km was brushed out, but can be impassable in the spring and fall if there is any moisture due to a couple of large mud holes. The last kilometre of the mining road to access the Property has been washed out and has a large mud hole across it, at the start. The last two kilometres were walked, but could've used ATVs or dirt bikes. Aspen Planers Ltd. has reported they will be rehabilitating and upgrading the Spius road in 2018, including the section at/near the Property, in order to conduct logging operations upstream.

A total of 16 days were spent on the Spius property prospecting and taking 167 soil geochemical samples and three rock samples. The B-horizon samples were taken from small trenches dug with a GeoTul (mattock) down through the A-horizon and into the B-horizon. The B-horizon was tan to light brown to reddish in color and varied from silty to sandy. All samples were taken in "virgin" ground, that is, in ground above old trenches or roadways, or below the toe of the trenches or roadways. Samples were placed in Kraft paper bags and then placed in plastic bags, until they were transferred to cardboard boxes for drying and shipping. All samples were either delivered directly to ALS Analytical in Kamloops, or North Vancouver, BC, or were shipped via UPS to North Vancouver.

At the lower elevations from 1150m to about 1350m there is very little bedrock outcropping and from 1350m to about 1450m there is more bedrock showing, but mostly in old trenches. Above 1450m up to 1600m there are more outcroppings but there is still a lot of glacial till cover.

The majority of the copper float was found between UTM NAD83 Zone10N 624200E and 624600E and 5530800N and 5531100N, which ties in both the copper and molybdenum soil geochemical highs. One piece of float (Sample #1001) in this area ran 1.43% copper (See Appendix A).

A second copper and molybdenum soil geochemical anomaly is centered on 624600E and 5530600N and has a radius of about 200m (see Figures 2 and 4 in Appendix B).

Fifteen of 167 soil samples ran over 2000ppm copper with the highest sample running 5320ppm. The lowest copper assay was 20ppm. The highest molybdenum assay ran 48ppm, with lowest value of 1ppm.

Combined these two anomalies have a strike length of about 600m and a width averaging about 400m.

Both of these anomalies are open to the east and need more sampling and prospecting.

9. CONCLUSIONS & RECOMMENDATIONS

The 2016 and 2017 phases of prospecting, soil and silt sampling at Spius, following George, 1976 recommendations has returned very encouraging results for the Property, with extremely anomalous Cu-in-soil values over a large area, highly mineralized disseminated copper float and historic bedrock samples and alteration styles typical of porphyry copper-molybdenum deposits. In our opinion the high-grade >1000ppm copper-in-soils anomaly in the central part of the Property indicates the "Ore" Shell located in the underlying rocks at/near the boundary of the Potassic Zone and Phyllic Zone in the Spius porphyry copper-molybdenum deposit.

It is recommended to use an air-track drill to test the bedrock underlying the copper soil anomaly along the deactivated Spius Creek FSR when Aspen Planers Ltd. are conducting their planned early 2018 road rehabilitation work. An attempt should also be made to further prospect and locate the source of the 2.5% copper and 1.4% copper float boulders (Appendix A).

During the summer and fall of 2018 it is recommended that up to eleven 300m deep vertical core holes should be drilled into the copper anomaly as outlined on Figure B7 in Appendix B (and below) at ~250m spacing.

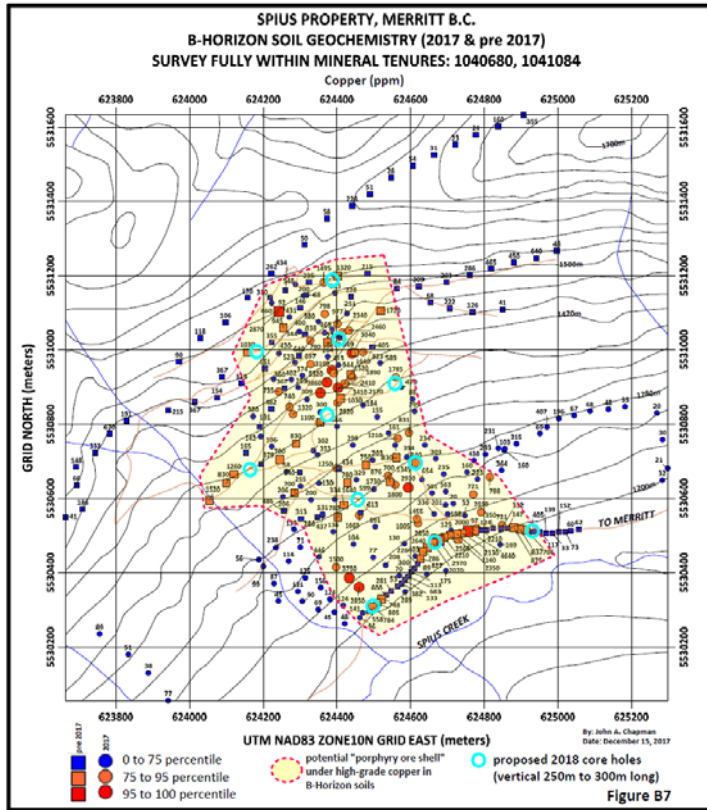


Figure B7 – main Spius copper anomaly and recommended 2018 drilling

10. STATEMENT OF EXPENDITURES

2017 Spius Expenditures					
Prepared by: Bruce Bried, December 15, 2017					
Spius Property, 2017 Mineral Exploration Expenditures					
Personnel:		Description	Days	Rate/day	Subtotal
Bruce Bried	B.Sc., Mining Engineer	17 full days & 8.4 part time days (January through November)	25.4	\$700.00	\$17,062.50
John Chapman	B.Sc., Mining Engineer	4 full days data assembly and report preparation	4.0	\$1,000.00	\$4,000.00
Other:					
Vehicle	4x4 truck	8,050 km at \$0.70/km			\$5,635.00
Sample Analysis	ALS Analytical	167 samples at an average cost of \$22/sample			\$3,860.16
Accommodations		Merritt	8 nights		\$677.80
Meals	13 meals	13 meals at an average of under \$14			\$179.84
Miscellaneous		Sample bags, flagging, Geotul, gloves			\$223.44
Shipping	UPS	Shipped 6 lots of samples to ALS			\$168.05
Chainsaw &/or Brush saw		Chainsaw 2 days & a Brush saw 4 days, both at \$50/day	6 days		\$300.00
Total Cost					\$32,106.79

Event Number: 5677331
 Work Filed: \$32,106.79
 PAC Filed: \$13056.96
 Total Applied Work Value Filed: \$45163.75
 Work Recorded: December 12, 2017

BRUCE BRIED DETAILS OF FIELD ACTIVIES				Personnel	Vehicle km & Cost		Chainsaw	Brush saw
Date	Hours	Work		Cost/day	Kilometers	Cost		
				\$700		\$/km		
30-Jan-17	4	Reading reports		\$350		\$0.70		
23-Feb-17	2	Met with Chris Park to look at Spius rock types		\$175				
15-Mar-17	2	Review geological and glaciation maps and data		\$175				
03-Apr-17	6	Drove from Delta up Pachett road, only got to km 12 up Spius road due to snow.	1	\$525	550	\$385		
20-Apr-17	2	Review data & maps & discussion with Jim at Aspen Planers re- 2017 work.		\$175				
11-May-17	2	Review data & discussion with Jim at Aspen Planers re- 2017 work and snow levels.		\$175				
20-May-17	8	Drove from Delta up Pachett and Spius roads, had to shovel mud, pull trees off road & cut deadfall, still 1m of snow.	1	\$700	600	\$420	1	
30-May-17	1	Discussion with Jim at Aspen Planers re- 2017 work. Looking at replacing 5 ton bridge.		\$88				
15-Jun-17	8	Drove up Spius Road, cut alder, willow & pine trees back on both sides of the road.	1	\$700	600	\$420	1	1
20-Jun-17	2	Laid out grid for Geochem and gathered gear.		\$175				
21-Jun-17	12	Drove from Delta up Pachett and Spius roads, slashed brush back, ditched the road, prospected, took geochem samples & drove back to Delta	1	\$700	600	\$420		1
09-Jul-17	12	Drove from Delta up Pachett and Spius roads, slashed brush back, prospected, took geochem samples & stayed in Merritt. Very hot.	1	\$700	350	\$245		1
10-Jul-17	12	Prospected & took geochem samples. Very hot.	1	\$700	150	\$105		
11-Jul-17	8	Took geochem samples to ALS Analytical in Kamloops & drove back to Delta		\$700	500	\$350		
23-Jul-17	2	Downloaded coordinates of samples		\$175				
26-Jul-17	4	Packed gear & drove to Merritt		\$350	300	\$210		
27-Jul-17	12	Prospected & took geochem samples. Drove back to Delta. Very hot.	1	\$700	400	\$280		
28-Jul-17	2	Unloaded & washed truck & sent samples to ALS Analytical.		\$175				
30-Jul-17	2	Plotted samples on Google Earth		\$175				
18-Aug-17	2	Finally received assay results, reviewed & plotted out.		\$175				
19-Aug-17	2	Printed out results & Google Earth image with sample points & packed up gear.		\$175				
20-Aug-17	12	Drove from Delta up Pachett and Spius roads, prospected, took geochem samples & stayed in Merritt. Very hot.	1	\$700	350	\$245		
21-Aug-17	12	Prospected & took geochem samples. Found a fair amount of mineralized float. Drove back to Delta. Very hot.	1	\$700	350	\$245		
22-Aug-17	2	Unloaded & washed truck & sent samples to ALS Analytical.		\$175				
26-Aug-17	2	Downloaded waypoints & reviewed sampling.		\$175				
03-Sep-17	6	Packed, drove up Spius road & slashed brush back, stayed in Merritt. Very hot & dusty.	1	\$525	350	\$245		1
04-Sep-17	12	Prospected & took geochem samples. Found a fair amount of mineralized float. Drove back to Delta. Very hot.	1	\$700	350	\$245		
05-Sep-17	2	Unloaded & washed truck. Looked at rock samples & boxed samples for ALS Analytical. Sent them on the 6th.		\$175				
27-Sep-17	3	Downloaded waypoints & sampling input into Google Earth & sent spreadsheet		\$263				
28-Sep-17	12	Drove from Delta up Pachett and Spius roads, prospected, took geochem samples & stayed in Merritt. Very hot.	1	\$700	350	\$245		
29-Sep-17	8	Prospecting, visited Coldwater Indian Band office & discussed 2018 potential road work , trenching & drilling. Drove back to Delta.	1	\$700	350	\$245		
01-Oct-17	2	Glassed rock samples & boxed up samples to send to ALS Analytical.		\$175				
02-Oct-17	1	Shipped samples to ALS Analytical		\$88				
04-Oct-17	12	Drove up to Spius, prospected, took geochem samples & drove back home. Lots of fine mineralization. Ice on puddles.	1	\$700	600	\$420		
05-Oct-17	2	Boxed & shipped samples to ALS Analytical. Discussed the Spius prospect & Notice of Work with Bruce Northcote.		\$175				
10-Oct-17	12	Drove up to Spius, prospected, took geochem samples, stayed in Merritt. Poured all day.	1	\$700	350	\$245		
11-Oct-17	10	Prospected & took geochem samples. Drove back to Delta. Rain, snow & hail.	1	\$700	350	\$245		
12-Oct-17	3	Unloaded & washed truck, vest, slickers, pack, boxed & sent samples to ALS Analytical & downloaded waypoints.		\$263				
16-Oct-17	2	Received assays, reviewed & added to coordinates & sent to John Chapman.		\$175				
26-Oct-17	3	Picked up more sample bags, received assays, reviewed & added to coordinates & sent to John Chapman.		\$263				
27-Oct-17	12	Prospected & took geochem samples. Found some fine grained mineralized float. Drove back to Delta. Ice on puddles	1	\$700	600	\$420		
28-Oct-17	2	Boxed up samples & sent to ALS Analytical. Unloaded truck.		\$175				
27-Nov-17	2	Received assays finally, downloaded samples & coordinates & sent to John Chapman.		\$175				
	67	total hours less than 8 hours	17	\$17,063	8050	\$5,635	2	4
			8.4	25.4				

11. STATEMENTS OF QUALIFICATIONS

I, Bruce E. Bried of Delta, Province of British Columbia, Canada, do hereby certify as follows:

- 1) I am a Mining Engineer residing at 6140 48A Avenue, Delta, British Columbia, Canada V4K 1Y8;
- 2) I graduated from British Columbia Institute of Technology, in Mining Technology in 1977 and from Colorado School of Mines in 1979, in Mining Engineering with a B.Sc.;
- 3) I have practiced my mining profession continuously since 1979 in Canada, the United States, Mexico and Australia;
- 4) Since 2007, I have provided services to the mining industry as a consultant;
- 5) I am a member of the Association of Professional Engineers of the Province of British Columbia;
- 6) I have held positions as President, Vice-President and Director of various companies and held various positions such as, a supervisor, engineer, chief engineer, mine superintendent, mine manager and manager of reclamation at different operations in Canada and the United States;
- 7) I am Co-author of this Soil Sample Survey (2017), Spius Mineral Property, Southwestern British Columbia, Canada, dated December 15, 2017;
- 8) I have a personal interest in the Spius property having optioned it from the owners: Michael A. Blady, Gerald G. Carlson, John A. Chapman and Christopher R. Paul;
- 9) I personally took all of the soil samples, submitted them for geochemical analysis and did all of the prospecting during the 2017 season.

Dated at Delta, British Columbia, this 15th day of December 1017.



Bruce Eugene Bried, D.Tech., B.Sc., P.Eng.

11. STATEMENTS OF QUALIFICATIONS (CONTINUED)

I, John Arthur Chapman of the City of Surrey, Province of British Columbia, Canada, do hereby certify as follows:

- (1) I am a mining engineer residing at #43 1725 Southmere Cr., Surrey, British Columbia, V4A 7A7;
- (2) I graduated with honours in Mining Technology from the British Columbia Institute of Technology, June 1967 and I graduated with honours in Mining Engineering (B.Sc.) from the Colorado School of Mines, January 1971;
- (3) I am a Fellow of the Canadian Institute of Mining and Metallurgy;
- (4) I have practised my mining profession continuously since 1971 in Canada, United States and Philippines;
- (5) Since 1983 I have provided services to the mining industry as the Principal of J.A. Chapman Mining Services;
- (6) Prior to 1983 I served five years with Manalta Coal Ltd., Canada's largest coal company, as Operations Manager then as Vice-President and General Manager and Alternate Chairman of the Gregg River Joint Venture. Prior to that, I served eleven years with Placer Development Limited in engineering, supervision and management at large open-pit copper and molybdenum mines;
- (7) I am Co-author of this Soil Sample Survey (2017), Spius Mineral Property, Southwestern British Columbia, dated December 15, 2017;
- (8) I am the beneficial owner of 25% interest in the Spius property;
- (9) I personally assisted in the planning and reviewing of the 2017 exploration program at the Spius property.

Dated at Surrey, British Columbia this 15th day of December 2017,



John Arthur Chapman, D.Tech, B.Sc., FCIM

12. REFERENCES

Allen, A.R. 1969. The Gossan Property, Spius Creek, for Murray Mining Ltd. N.P.L. Ministry of Energy, Mines and Petroleum Resources, B.C. Property Files 8727 and 8729.

Carlson, G.G. 2016. Lineament Analysis Spius Porphyry Cu-Mo-Au Property, Appendix to the Spius 2016 B.C. Ministry of Energy and Mines Assessment Report 36631 by Paul, C.R.

Fominoff, P.J. and Baird, J.G. 1970. Report on an Induced Polarization Survey, Spius Creek Project, Merritt Area, British Columbia. B.C. Ministry of Energy and Mines, Assessment Report 3052.

Gannon, P.J. 1974. A Prospecting Report Regarding the G.S. Group, B.C. Ministry of Energy and Mines, Assessment Report 5389.

George, R.L. 1976. Geology and Geochemistry of the PAT Claim Group, B.C. Ministry of Energy and Mines, Assessment Report 6145.

Paul, C.R. 2016. Geological and Geochemical Report on the Spius property, B.C. Ministry of Energy and Mines Assessment Report 36631.

Shearer, J.T. 2012. Geochemical and Geophysical Assessment Report on the Spius Project, B.C. Ministry of Energy and Mines, Assessment Report 33913.

APPENDIX A

**HIGH-GRADE COPPER IN FLOAT
ROCK**

**DESCRIPTIONS, PHOTOGRAPHS &
ASSAYS**

Spius Property, Assessment Report, 2017 Exploration

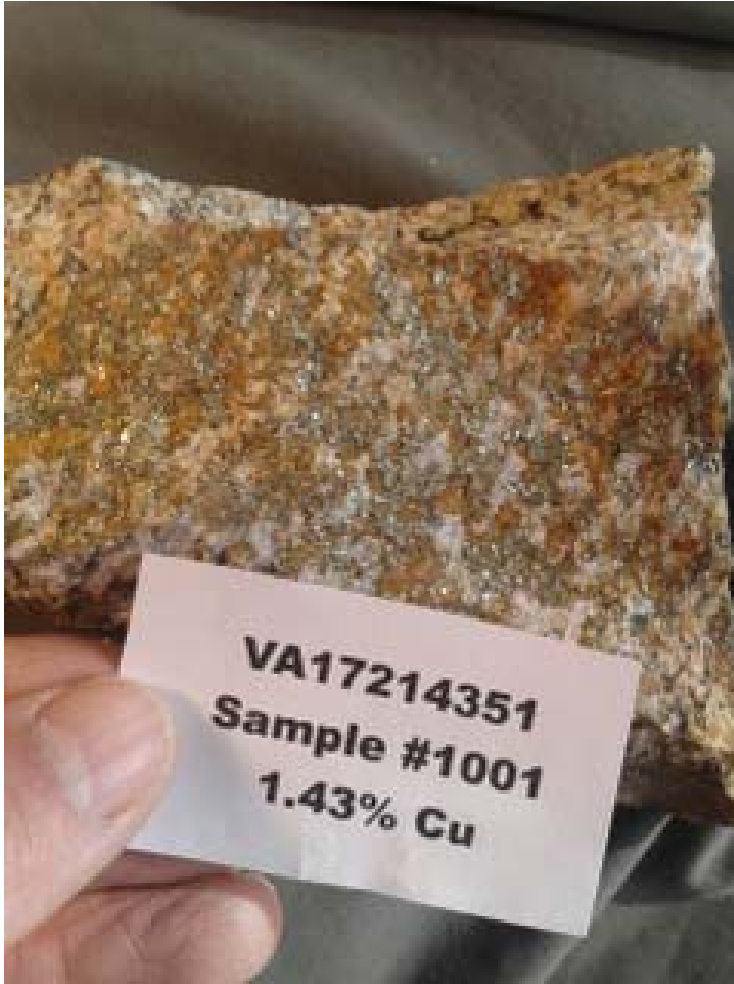


Photo A1 – 1.43% disseminated copper (mainly chalcopyrite) in an altered felsic intrusive rock (Bruce Bried, 2017)



Photo A2 – Float boulder source of Sample #1001 Upper Spius at 624250mE/5531044mN (Bruce Bried, 2017)
(Sample analysis in latter part of this Appendix)



Photo A3 – 2.5% disseminated copper (mainly chalcopyrite) in altered felsic intrusive (Chris Paul, 2016, Assessment Report 36631)

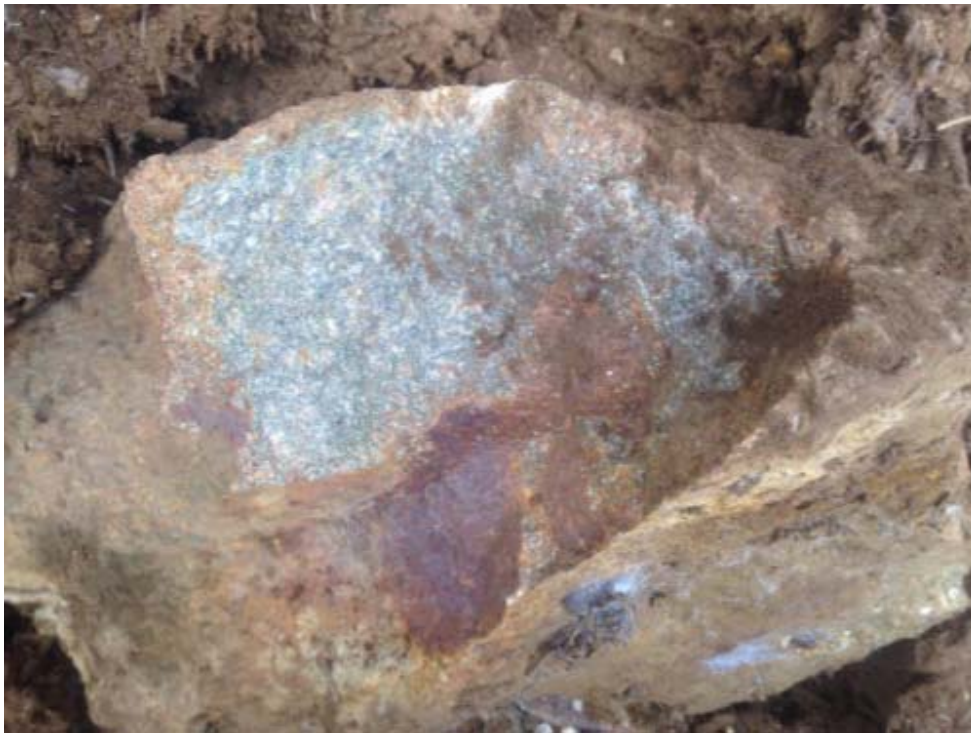


Photo A4 – Float Boulder at 624147mE/5531067mN Upper Spius where sample in Photo A3 above taken from (Chris Paul, 2016, Assessment Report 36631) (Refer to Assessment Report 36631 (2016) for details of sample analysis)

Both of these float samples (2016 and 2017) occur to the immediate west of what the Authors consider to be the surface expression (~1000m x ~400m B-Horizon soils anomaly containing very high-grade copper >800ppm) of an underlying “Copper Ore Shell” as illustrated in the following images:

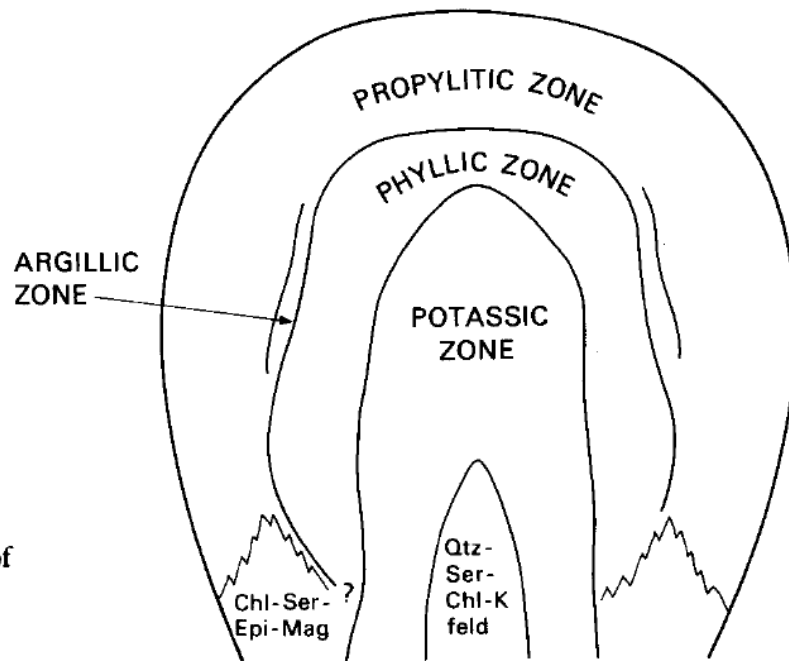


Fig. 15.4. Hydrothermal alteration zoning pattern in the Lowell–Guilbert model of porphyry copper deposits. (After Lowell & Guilbert 1970).

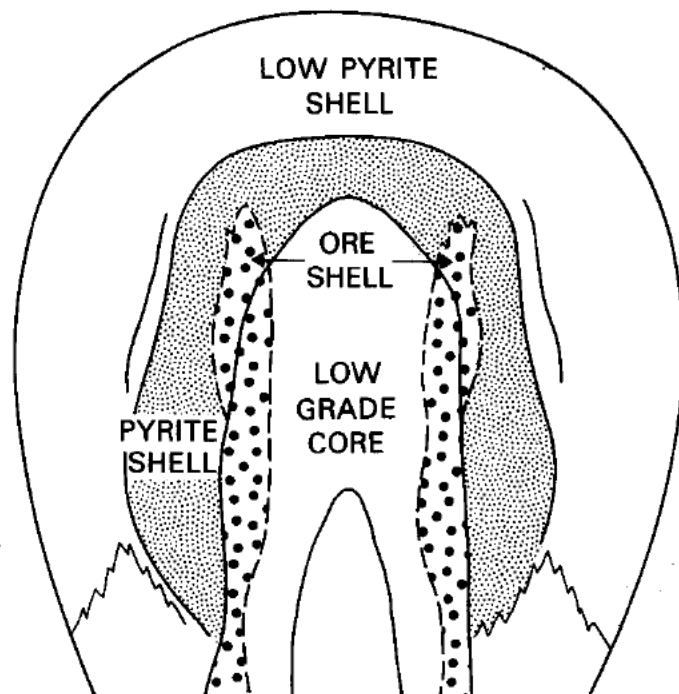


Fig. 15.5. Schematic diagram of the principal areas of sulphide mineralization in the Lowell–Guilbert model of porphyry copper deposits. Solid lines represent the boundaries of the alteration zones shown in Fig. 15.4. (After Lowell & Guilbert 1970).



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 North Vancouver BC V7H 0A7
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DELTA BC V4K 1Y8

Page: 1
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 19-OCT-2017
 This copy reported on
 20-OCT-2017
 Account: BRIBRU

CERTIFICATE VA17214351

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 4-OCT-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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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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 Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
#1001		0.32	9.57	0.38	1.6	0.04	<10	120	0.05	0.92	0.07	0.39	4.70	5.4	7	0.15
#1002		0.24	0.67	0.56	1.5	<0.02	<10	210	0.20	0.33	1.04	0.23	19.15	3.1	7	0.45
#1003		0.24	0.64	0.52	2.5	<0.02	<10	150	0.13	0.42	0.15	0.09	18.20	3.1	6	0.34



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 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 19-OCT-2017
 Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
#1001		>10000	2.43	1.91	<0.05	0.03	0.04	0.178	0.08	2.3	1.4	0.15	98	6.04	0.05	0.16
#1002		766	1.18	2.67	<0.05	<0.02	0.01	0.023	0.13	9.0	2.4	0.15	274	7.01	0.05	<0.05
#1003		705	0.97	2.25	<0.05	0.02	0.01	0.022	0.10	8.3	2.2	0.18	192	3.97	0.06	<0.05



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 Total # Pages: 2 (A - D)
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CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method	Analyte	Units	LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41			
					Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
					ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					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
#1001					3.1	160	1.8	3.5	0.004	1.35	0.48	1.1	6.8	0.6	8.5	<0.01	0.36	0.7	0.023
#1002					2.3	380	21.2	5.2	0.003	0.10	0.09	1.9	0.3	<0.2	24.2	<0.01	0.08	1.5	0.010
#1003					2.1	360	3.8	3.4	0.002	0.12	0.20	1.3	0.4	<0.2	12.2	<0.01	0.10	1.4	<0.005

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



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CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001
#1001		0.02	0.63	15	0.19	1.58	41	0.6	1.435
#1002		0.05	0.56	14	<0.05	6.09	58	<0.5	
#1003		0.02	0.91	12	<0.05	5.34	33	0.5	



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DELTA BC V4K 1Y8

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 19-OCT-2017
Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17214351

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

CRU-31	Cu-OG46	LOG-22	ME-MS41
ME-OG46	PUL-31	SPL-21	WEI-21

APPENDIX B

SOIL 2017 SURVEY MAPS

SOIL 2017 & PRE 2017 SURVEY MAPS

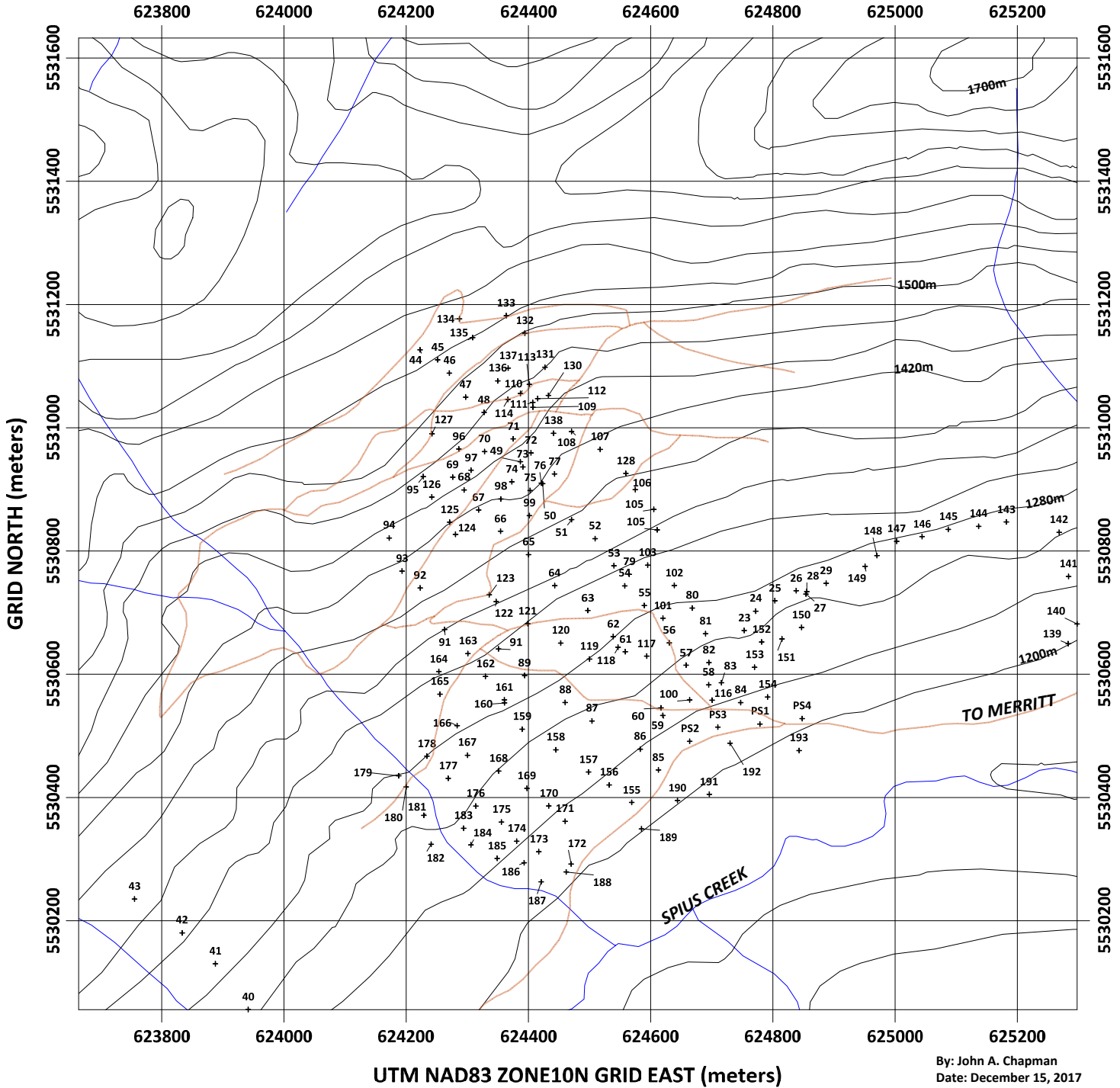
&

REFERENCE SPREAD SHEETS FOR

INPUT TO PLOT FILES

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

2017 Soil Sample Numbers

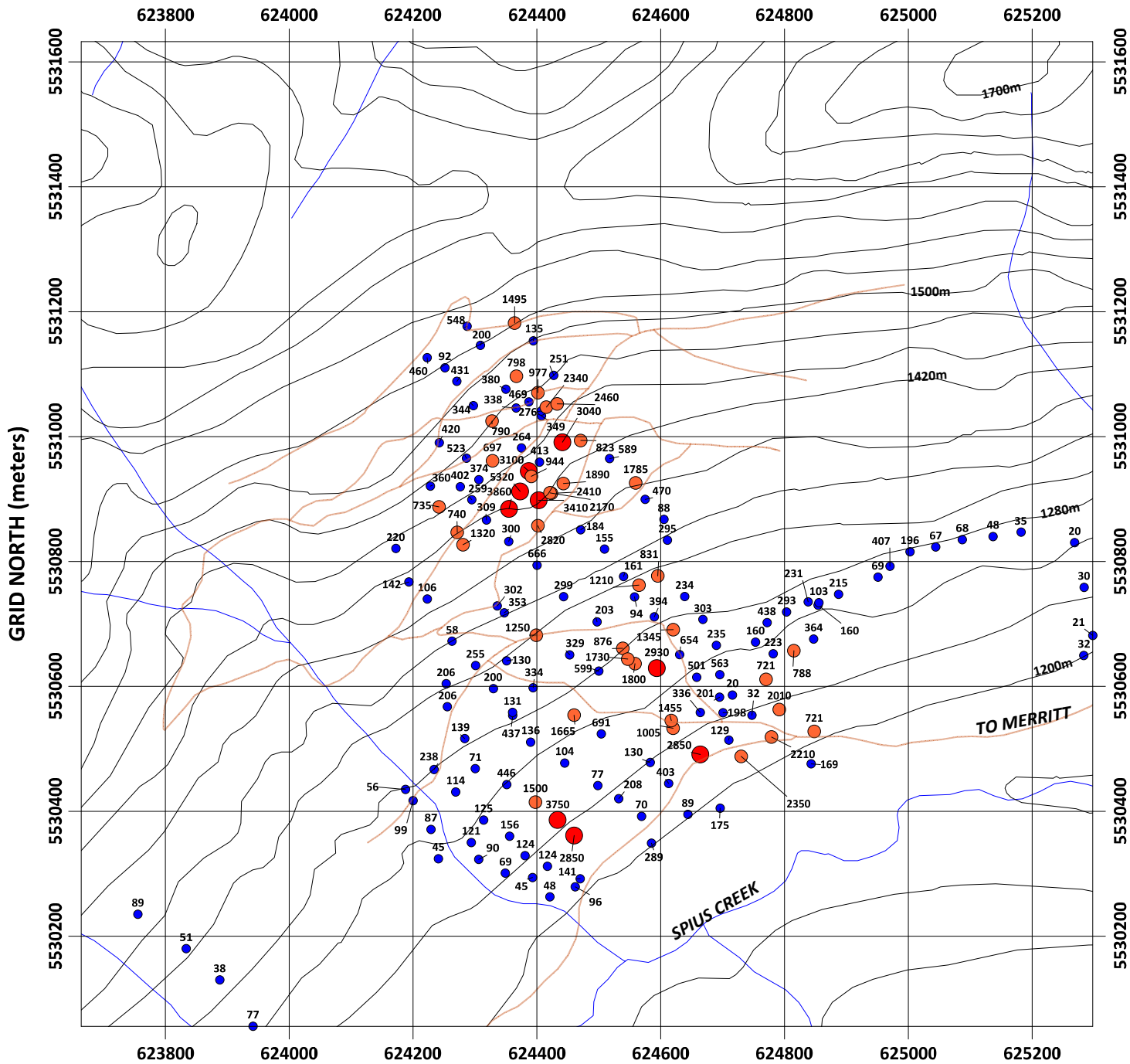


By: John A. Chapman
Date: December 15, 2017

Figure B1A

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Copper (ppm)



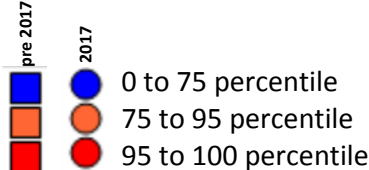
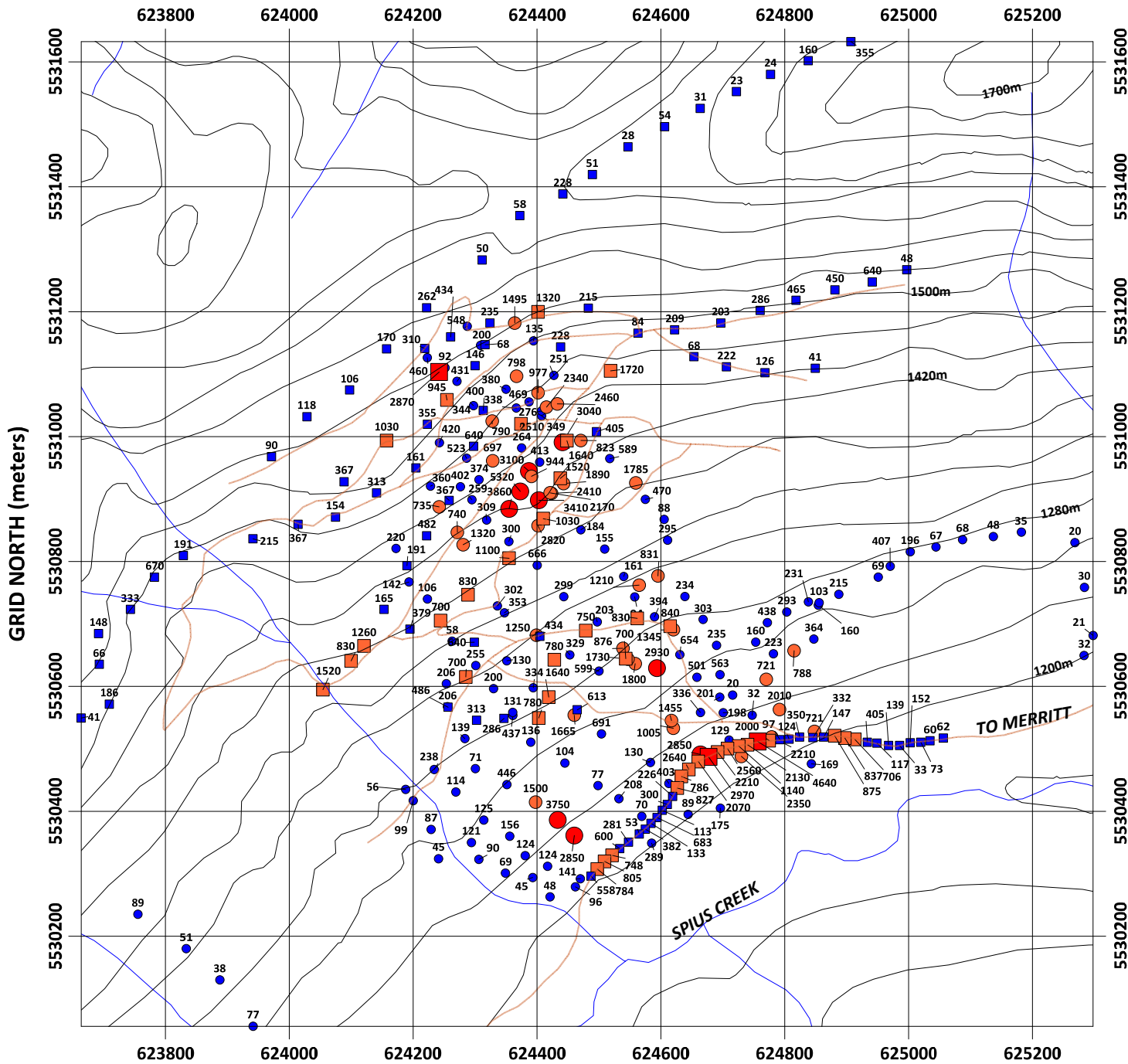
- 2017
- 0 to 75 percentile
 - 75 to 95 percentile
 - 95 to 100 percentile

By: John A. Chapman
 Date: December 15, 2017

Figure B1

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017 & pre 2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Copper (ppm)



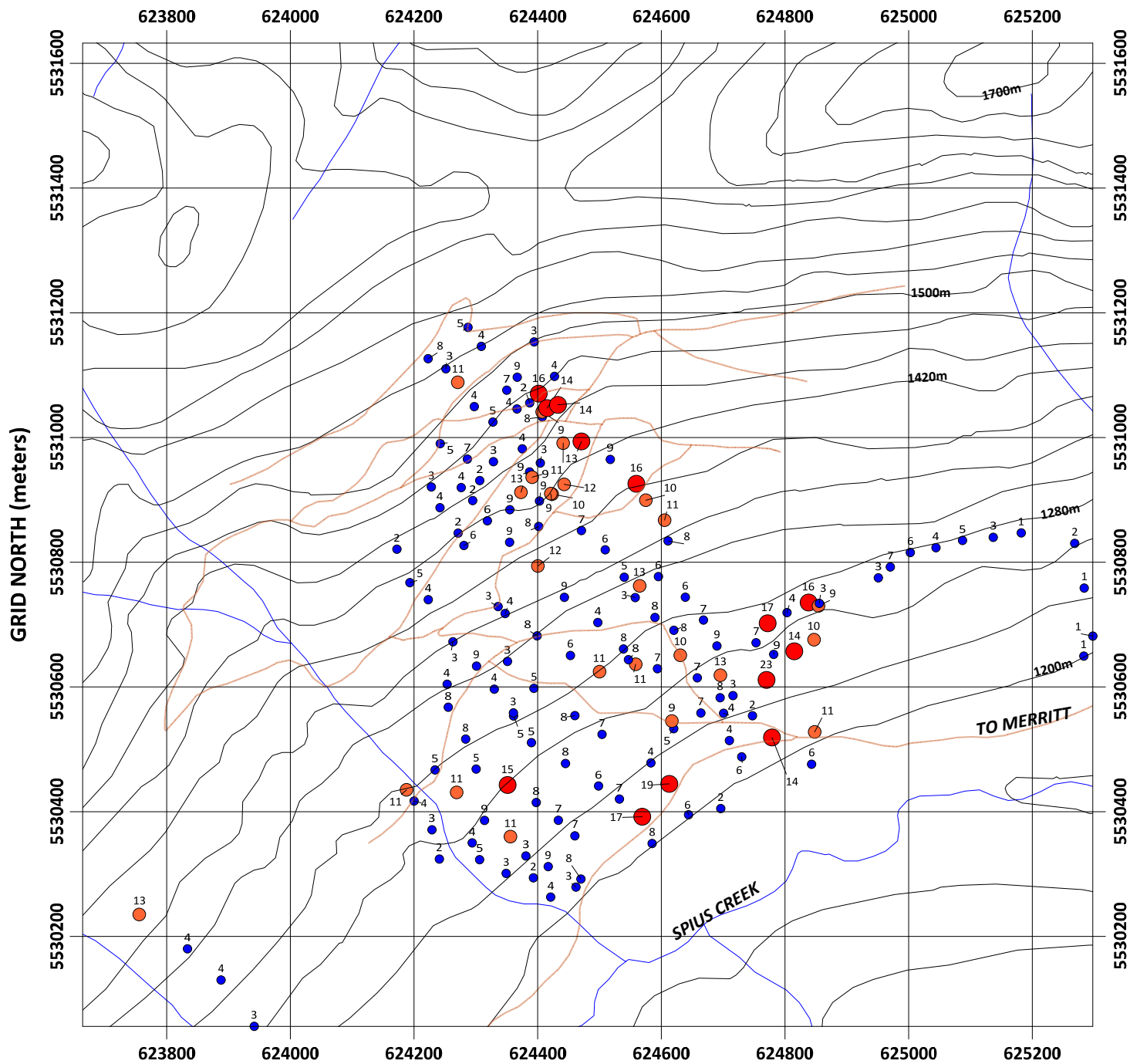
UTM NAD83 ZONE10N GRID EAST (meters)

By: John A. Chapman
 Date: December 15, 2017

Figure B2

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Molybdenum (ppm)



- 2017
- 0 to 75 percentile
 - 75 to 95 percentile
 - 95 to 100 percentile

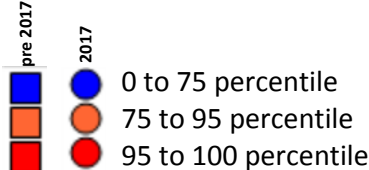
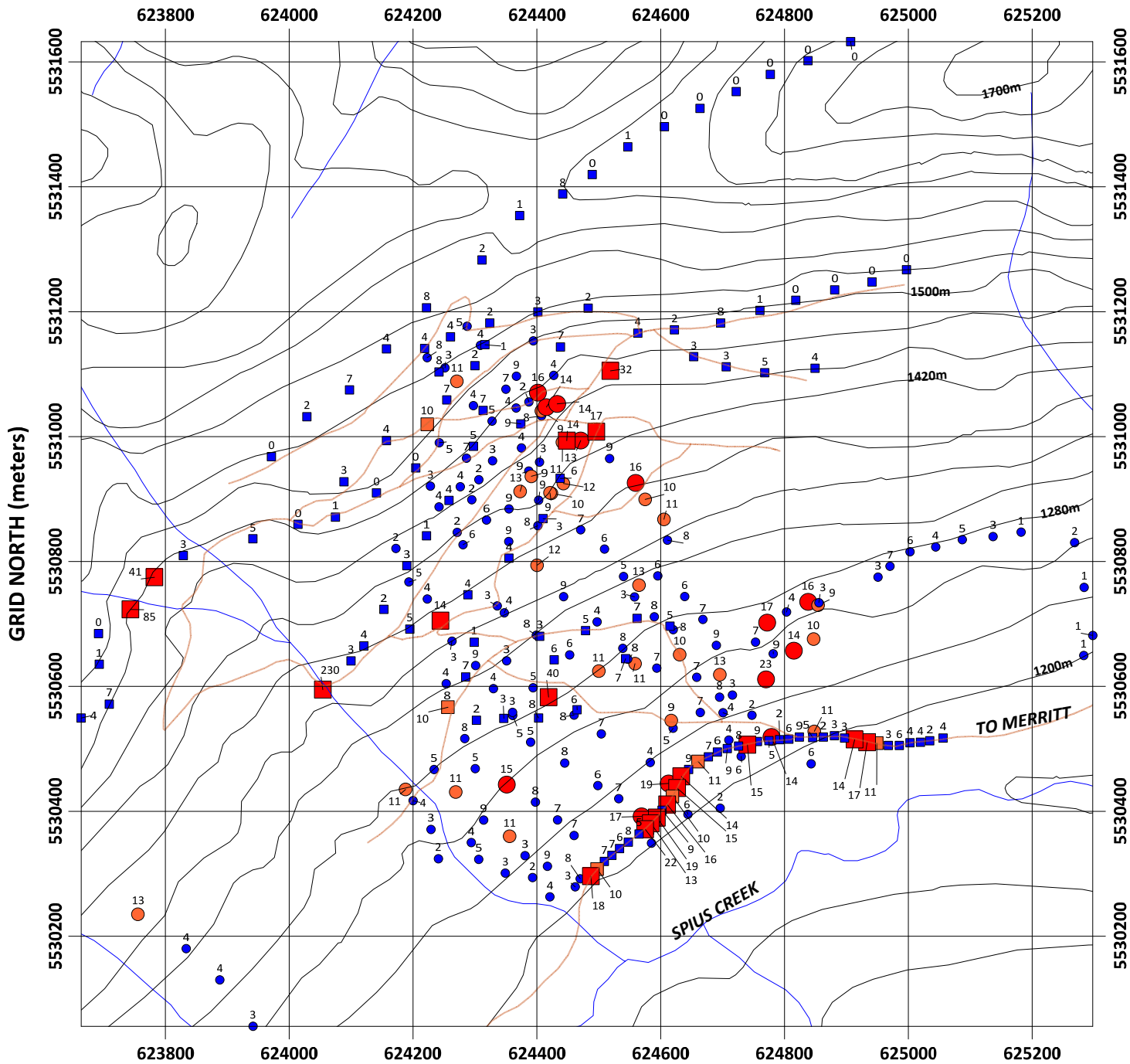
UTM NAD83 ZONE10N GRID EAST (meters)

By: John A. Chapman
 Date: December 15, 2017

Figure B3

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017 & pre 2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Molybdenum (ppm)



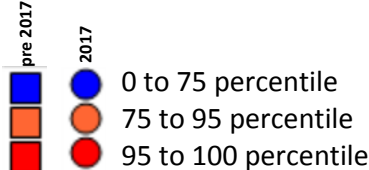
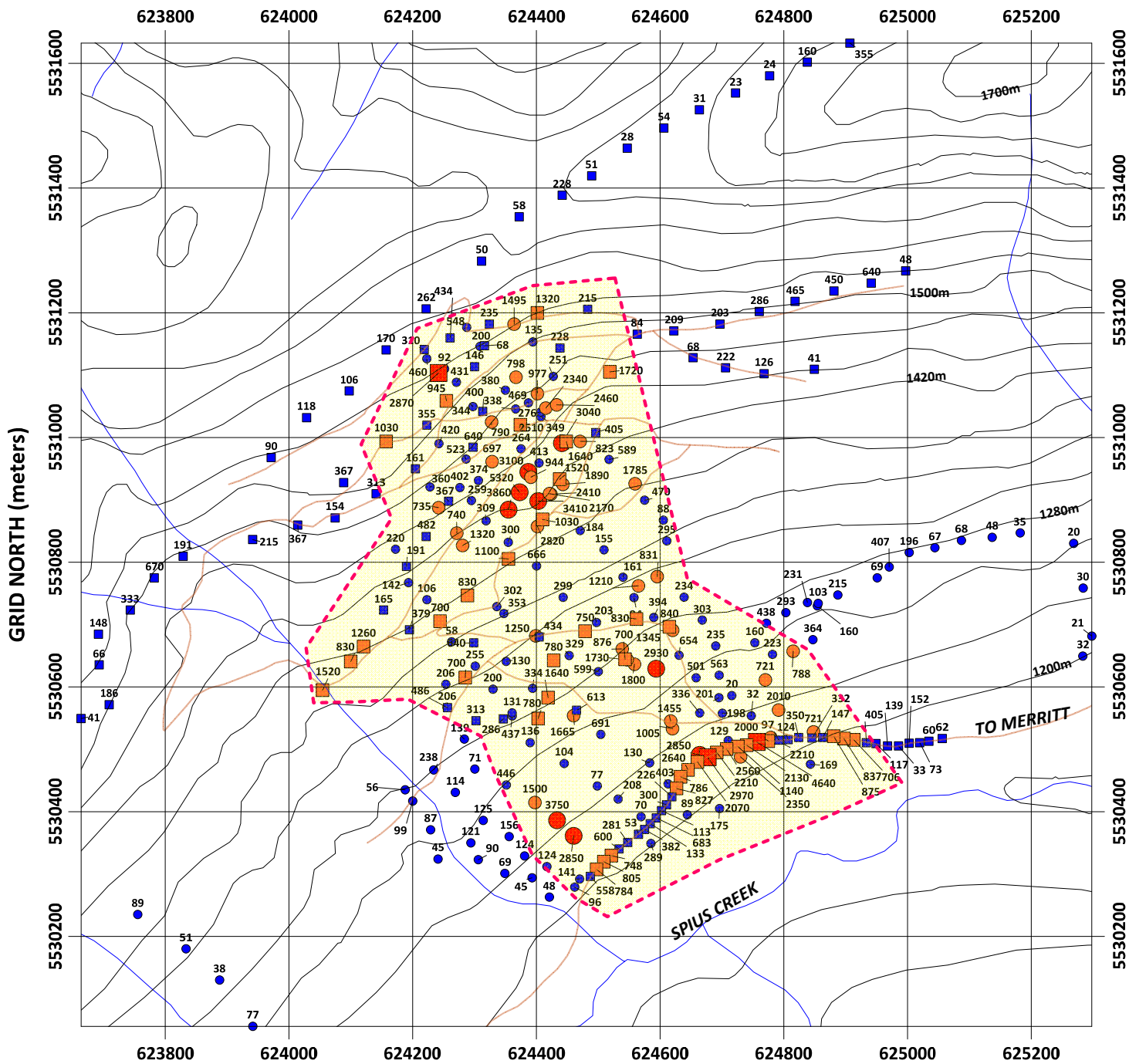
UTM NAD83 ZONE10N GRID EAST (meters)

By: John A. Chapman
Date: December 15, 2017

Figure B4

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017 & pre 2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Copper (ppm)



UTM NAD83 ZONE10N GRID EAST (meters)

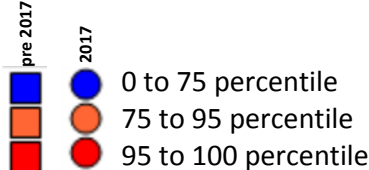
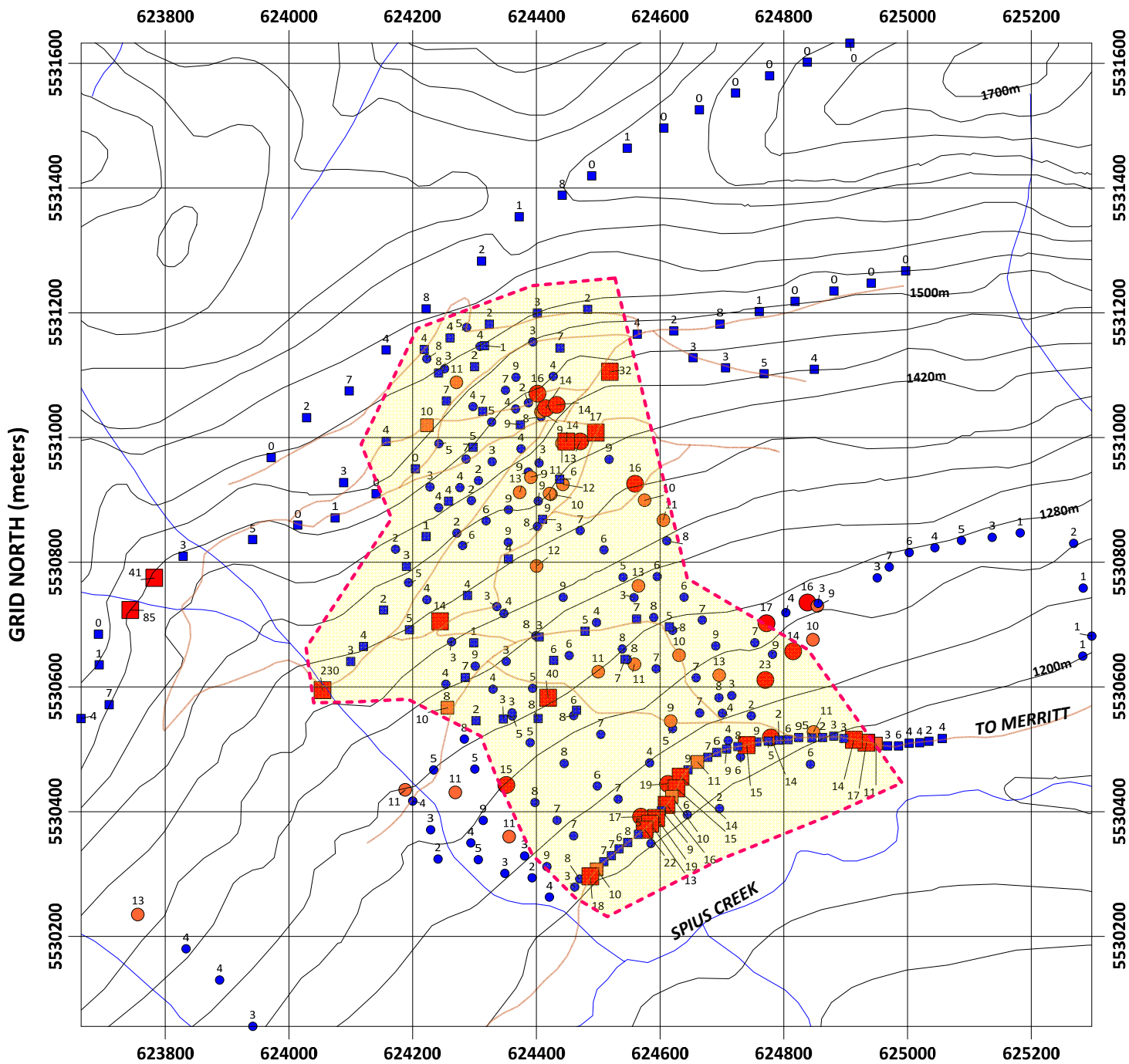
potential "porphyry ore shell"
 under high-grade copper in
 B-Horizon soils

By: John A. Chapman
 Date: December 15, 2017

Figure B5

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017 & pre 2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Molybdenum (ppm)



potential "porphyry ore shell" under high-grade copper in B-Horizon soils

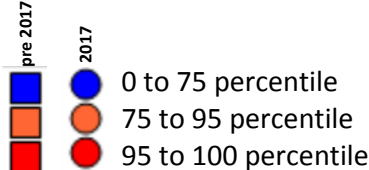
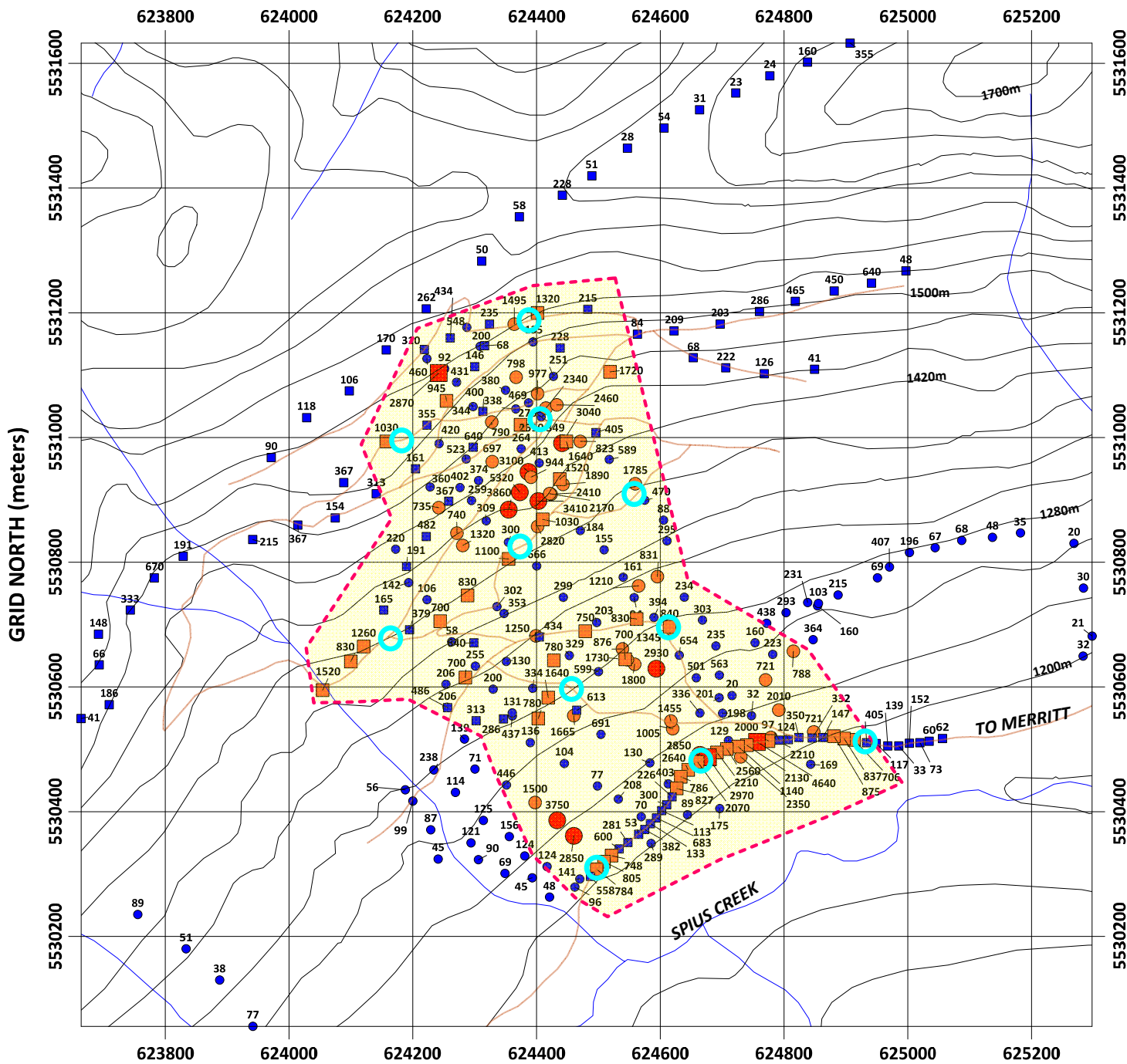
UTM NAD83 ZONE10N GRID EAST (meters)


By: John A. Chapman
Date: December 15, 2017

Figure B6

SPIUS PROPERTY, MERRITT B.C.
B-HORIZON SOIL GEOCHEMISTRY (2017 & pre 2017)
SURVEY FULLY WITHIN MINERAL TENURES: 1040680, 1041084

Copper (ppm)



 potential "porphyry ore shell" under high-grade copper in B-Horizon soils

 proposed 2018 core holes (vertical 250m to 300m long)

By: John A. Chapman
Date: December 15, 2017

Figure B7

PRE 2017 SOIL SAMPING AT SPIUS			
UTM83_E	UTM83_N	Cu_ppm	Mo_ppm
624907	5531632	355	0
624838	5531602	160	0
624777	5531580	24	0
624722	5531552	23	0
624663	5531525	31	0
624606	5531496	54	0
624547	5531464	28	1
624490	5531420	51	0
624442	5531389	228	8
624372	5531354	58	1
624311	5531283	50	2
624222	5531206	262	8
624157	5531140	170	4
624097	5531075	106	7
624029	5531032	118	2
623971	5530968	90	0
624219	5531141	310	4
624261	5531160	434	4
624324	5531182	235	2
624402	5531200	1320	3
624483	5531206	215	2
624438	5531143	228	7
624519	5531105	1720	32
624563	5531166	84	4
624622	5531171	209	2
624697	5531182	203	8
624760	5531202	286	1
624818	5531218	465	0
624881	5531235	450	0
624941	5531247	640	0
624997	5531267	48	0
624653	5531128	68	3
624706	5531112	222	3
624768	5531102	126	5
624849	5531109	41	4
624496	5531008	405	17
624448	5530993	1640	14
624438	5530933	1520	6
624410	5530869	1030	3
624355	5530805	1100	4
624289	5530747	830	4
624374	5531020	2510	9
624298	5530984	640	5
624258	5530898	367	4
624222	5530841	482	1
624190	5530793	191	3
624313	5531042	400	7
624204	5530950	161	0
624223	5531020	355	10
624255	5531059	945	7
624242	5531103	2870	8
624300	5531114	146	2
624316	5531147	68	1
624157	5530993	1030	4
624088	5530928	367	3
624141	5530910	313	0
624075	5530871	154	1
624014	5530860	367	0
623941	5530836	215	5
623829	5530809	191	3
623782	5530775	670	41
623744	5530723	333	85

623692	5530684	148	0
623693	5530635	66	1
623710	5530571	186	7
623664	5530549	41	4
624153	5530723	165	2
624121	5530665	1260	4
624100	5530641	830	3
624054	5530595	1520	230
624244	5530705	700	14
624195	5530692	379	5
624299	5530671	640	1
624285	5530615	700	7
624256	5530567	486	10
624302	5530546	313	2
624347	5530549	286	3
624403	5530549	780	8
624419	5530583	1640	40
624465	5530562	613	6
624543	5530644	700	7
624615	5530696	840	5
624562	5530709	830	7
624479	5530689	750	5
624405	5530680	434	3
624428	5530643	780	6
625056	5530517	62	4
625035	5530513	60	2
625020	5530511	73	4
625003	5530510	152	4
624985	5530505	33	6
624968	5530505	139	3
624949	5530509	117	11
624933	5530511	405	17
624913	5530515	706	14
624897	5530517	837	3
624881	5530521	875	3
624863	5530519	147	2
624846	5530518	332	5
624824	5530519	350	9
624807	5530515	124	6
624792	5530515	97	2
624775	5530513	2000	5
624756	5530512	4640	9
624740	5530506	2130	15
624726	5530504	1140	8
624708	5530500	2560	9
624692	5530495	2210	6
624677	5530487	2970	7
624660	5530480	2070	11
624645	5530467	2640	9
624633	5530456	786	14
624627	5530437	827	15
624619	5530424	226	10
624611	5530411	300	16
624602	5530402	113	9
624594	5530390	683	19
624584	5530381	133	13
624575	5530371	382	22
624565	5530364	53	5
624548	5530351	281	8
624534	5530340	600	6
624521	5530329	748	7
624509	5530320	805	7
624497	5530307	784	10
624487	5530296	558	18

152	49.9152	-121.2619	5330652	624782	223	8.52	0.44	2.57	5.1	200	0.42	0.28	0.34	0.68	9.19	13.00	24.00	1.25	4.46	12.80	0.05	0.05	0.05	0.03	0.08	4.5	14.5	0.59	549	0.01	1.98	14.1	490	11.2	16.8	0.001	0.04	0.15	3.3	0.4	0.8	28.3	0.01	0.16	0.5	0.19	0.06	0.77	86	0.33	3.77	210	2.0
153	49.9148	-121.2621	5330651	624770	221	23.09	0.38	2.80	5.6	300	0.62	0.22	0.47	0.31	14.65	10.40	21.00	1.20	3.85	11.70	0.08	0.04	0.07	0.04	0.07	18.8	11.8	0.79	449	0.01	1.40	20.1	380	9.0	9.8	0.005	0.04	0.13	5.2	1.2	0.8	46.2	0.01	0.09	0.4	0.15	0.07	2.38	82	0.21	3.73	125	1.5
154	49.9144	-121.2618	5330650	624791	2010	36.70	0.80	3.03	10.6	380	0.83	0.36	0.50	1.00	45.70	22.50	30.00	1.73	4.45	11.15	0.13	0.05	0.09	0.05	0.09	35.5	13.5	0.68	3710	0.01	1.07	21.5	3060	10.0	14.8	0.015	0.07	0.17	6.1	1.4	0.8	57.5	0.01	0.11	0.5	0.10	0.18	5.46	68	0.17	34.10	146	1.6
155	49.9129	-121.2648	5330592	624569	70	17.45	0.84	1.91	3.3	130	0.32	0.47	0.11	0.35	8.93	7.10	18.00	1.15	4.21	15.30	0.05	0.06	0.05	0.04	0.05	4.8	9.3	0.30	323	0.01	8.89	8.2	560	11.3	9.7	0.001	0.03	0.14	2.7	0.4	1.4	12.2	0.01	0.09	0.8	0.21	0.06	0.59	86	0.34	2.54	105	3.2
156	49.9133	-121.2654	5330620	624532	208	7.30	0.35	2.71	4.1	170	0.48	0.24	0.28	0.19	14.30	11.20	29.00	1.02	3.48	10.80	0.05	0.04	0.06	0.03	0.05	6.6	10.8	0.61	519	0.01	1.51	18.2	670	7.4	8.4	0.001	0.04	0.14	3.7	0.5	0.9	26.1	0.01	0.05	0.7	0.13	0.07	1.12	73	0.28	5.18	83	2.0
157	49.9134	-121.2659	5330441	624488	77	6.06	0.35	2.70	4.6	130	0.32	0.44	0.18	0.23	8.19	9.10	23.00	1.04	3.92	15.45	0.05	0.06	0.06	0.03	0.06	3.7	10.8	0.55	438	0.01	2.44	13.7	1150	10.0	8.5	0.001	0.03	0.17	3.4	0.3	1.1	18.0	0.01	0.09	0.8	0.21	0.06	0.60	86	0.23	2.14	142	3.1
158	49.9137	-121.2666	5330477	624445	104	8.23	0.36	2.72	5.5	100	0.38	0.37	0.22	0.17	7.28	6.20	18.00	1.16	4.06	13.10	0.06	0.06	0.08	0.04	0.05	4.1	12.0	0.30	478	0.01	2.27	8.4	1480	9.4	10.1	0.001	0.05	0.14	2.6	0.5	1.1	19.2	0.03	0.06	0.8	0.14	0.07	0.54	69	0.29	1.86	88	3.2
159	49.9140	-121.2670	5330511	624390	136	5.00	0.64	3.94	5.3	220	0.48	0.22	0.27	0.53	10.70	11.40	33.00	1.22	4.42	12.90	0.05	0.06	0.06	0.04	0.06	4.6	15.5	0.72	200	0.02	1.84	19.2	640	7.3	9.1	0.001	0.03	0.16	4.5	0.4	0.8	24.6	0.01	0.05	0.7	0.16	0.05	0.64	94	0.17	2.78	119	2.6
160	49.9144	-121.2678	5330420	624361	208	4.55	0.49	2.67	6.7	100	0.40	0.15	0.19	0.19	8.31	7.50	30.00	0.78	3.25	7.51	0.05	0.04	0.08	0.03	0.07	4.4	7.8	0.57	250	0.01	1.04	18.0	320	4.3	5.7	0.001	0.02	0.08	3.8	0.6	0.5	9.1	0.01	0.05	0.9	0.09	0.04	0.75	56	0.21	4.26	63	1.5
161	49.9145	-121.2678	5330558	624361	131	3.20	0.30	2.83	4.8	140	0.36	0.22	0.27	0.18	8.64	9.50	35.00	1.01	3.60	12.55	0.05	0.05	0.04	0.03	0.05	4.2	12.4	0.59	280	0.01	1.60	21.6	480	8.0	7.8	0.001	0.02	0.17	4.1	0.2	0.9	28.4	0.01	0.05	1.0	0.12	0.02	0.56	82	0.17	2.54	77	2.5
162	49.9148	-121.2687	5330596	624330	200	3.86	0.31	2.99	3.6	210	0.36	0.18	0.30	0.18	11.05	9.70	22.00	1.04	3.33	11.05	0.05	0.03	0.04	0.02	0.06	4.8	11.1	0.61	271	0.01	1.45	15.6	350	6.4	8.9	0.001	0.02	0.12	4.0	0.4	0.8	27.0	0.01	0.04	0.9	0.11	0.04	0.84	76	0.16	4.15	63	1.3
163	49.9151	-121.2686	5330301	624301	208	4.88	0.32	2.14	3.6	160	0.32	0.24	0.26	0.28	12.05	8.50	24.00	1.13	3.62	12.15	0.05	0.04	0.03	0.03	0.04	4.7	13.8	0.51	255	0.01	1.75	15.5	280	8.1	9.0	0.001	0.02	0.15	3.7	0.2	0.8	24.5	0.01	0.09	0.14	0.06	0.72	89	0.19	1.03	68	2.0	
164	49.9149	-121.2692	5330604	624253	206	4.25	0.51	2.86	4.6	80	0.43	0.30	0.09	0.12	6.45	6.60	20.00	1.14	3.11	10.95	0.05	0.10	0.06	0.03	0.03	4.4	10.8	0.41	203	0.01	1.70	11.8	600	7.5	8.2	0.001	0.02	0.15	3.7	0.4	0.8	8.6	0.04	0.06	1.3	0.11	0.07	0.69	66	0.29	1.19	57	4.8
165	49.9146	-121.2695	5330567	624255	206	7.87	0.25	2.70	8.3	120	0.41	0.27	0.14	0.15	9.10	8.10	18.00	1.11	3.57	10.75	0.05	0.10	0.04	0.03	0.04	4.2	11.0	0.41	216	0.01	1.62	11.6	570	7.3	8.4	0.001	0.02	0.15	3.4	0.4	0.7	11.8	0.03	0.05	1.5	0.11	0.06	0.68	73	0.22	2.21	80	4.8
166	49.9141	-121.2699	5330516	624261	139	8.06	0.31	2.09	7.2	140	0.29	0.31	0.21	0.37	7.01	9.09	25.00	1.35	3.93	12.00	0.05	0.04	0.03	0.03	0.05	3.5	14.5	0.37	268	0.01	1.67	14.4	410	7.5	12.4	0.001	0.02	0.12	3.5	0.1	0.8	17.5	0.01	0.08	0.8	0.15	0.04	0.41	81	0.29	2.43	162	1.7
167	49.9137	-121.2688	5330468	624300	71	4.59	0.37	2.33	2.6	160	0.30	0.19	0.32	0.31	6.62	10.10	28.00	0.88	3.71	11.70	0.05	0.04	0.03	0.03	0.05	3.2	11.4	0.62	308	0.02	1.55	15.9	340	6.7	9.4	0.001	0.02	0.11	3.7	0.2	0.7	23.1	0.01	0.04	0.6	0.16	0.04	0.39	89	0.17	2.31	98	1.7
168	49.9134	-121.2679	5330441	624351	446	14.50	0.43	2.21	3.2	300	0.46	0.21	0.43	0.42	11.65	12.20	31.00	1.12	3.47	10.25	0.06	0.03	0.04	0.03	0.04	3.6	12.6	0.56	453	0.01	1.16	18.6	510	6.3	7.4	0.014	0.04	0.11	3.6	1.2	1.0	39.2	0.01	0.04	0.3	0.11	0.05	2.23	70	0.11	15.40	46	1.3
169	49.9132	-121.2671	5330415	624398	3500	4.52	0.59	2.22	4.5	290	0.79	0.25	0.40	0.81	15.65	16.00	21.00	1.29	3.30	9.74	0.07	0.03	0.05	0.03	0.04	3.4	21.1	0.47	1050	0.01	1.25	16.5	680	7.5	10.0	0.010	0.04	0.14	3.4	1.2	0.7	32.1	0.01	0.04	0.4	0.11	0.08	5.42	59	0.30	15.70	140	1.3
170	49.9129	-121.2668	5330386	624433	3750	7.37	0.76	2.62	4.8	450	1.32	0.26	0.67	1.72	24.10	19.40	21.00	1.56	3.47	8.85	0.15	0.05	0.04	0.03	0.06	4.5	13.0	0.54	1660	0.01	1.32	21.5	2050	7.6	12.7	0.005	0.04	0.15	6.3	1.5	1.1	59.2	0.01	0.05	0.7	0.12	0.10	48.00	56	0.16	43.10	183	1.8
171	49.9127	-121.2664	5330361	624460	2850	7.25	0.69	2.67	4.4	480	1.21	0.28	0.54	1.48	19.20	19.90	24.00	1.60	3.68	10.65	0.10	0.04	0.05	0.04	0.05	29.3	14.1	0.53	1680	0.01	1.53	19.4	890	9.0	12.5	0.006	0.05	0.16	4.8	1.6	0.8	46.8	0.01	0.05	0.5	0.13	0.09	10.45	60	0.15	28.50	194	1.8
172	49.9120	-121.2663	5330292	624470	141	8.57	0.28	2.19	2.1	140	0.32	0.12	0.28	0.18	12.10	8.10	29.00	0.67	2.92	7.62	0.05	0.04	0.04	0.02	0.04	8.8	7.6	0.49	320	0.01	1.08	14.3	340	4.8	5.4	0.001	0.01	0.12	2.9	0.3	0.4	23.0	0.01	0.03	0.4	0.12	0.03	1.02	70	0.12	1.63	55	1.4
173	49.9122	-121.2671	5330312	624417	124	9.22	0.24	2.62	3.9	110	0.36	0.23	0.20	0.22	7.39	6.80	19.00	1.12	3.54	9.52	0.05	0.04	0.04	0.03	0.03	3.8	8.9	0.33	200	0.01	1.49	8.4	680	5.4	8.2	0.001	0.02	0.12	2.4	0.4	0.5	20.2	0.03	0.05	0.5	0.11	0.03	0.70	72	0.24	3.02	91	2.3
174	49.9124	-121.2676	5330329	624381	124	3.37	0.25	2.40	4.0	70	0.29	0.21	0.13	0.10	7.37	9.10	20.00	0.79	3.29	6.10	0.05	0.06	0.05	0.02	0.04	3.4	5.5	0.41	204	0.01	0.86	9.7	830	3.3	9.0	0.001	0.02	0.11	3.2	0.4	0.3	15.0	0.01	0.06	1.1	0.09	0.04	0.65	76	1.39	2.88	53	2.4
175	49.9127	-121.2679	5330360	624356	156	10.85	0.30	1.84	5.0	110	0.27	0.15	0.24	0.15	11.00	8.60	18.00	0.72	2.77	6.40	0.05	0.02	0.03	0.02	0.03	4.5	10.5	0.35	178	0.01	0.80	10.3	450	6.5	6.9	0.001	0.01	0.09	2.3	0.4	0.3	21.8	0.01	0.04	0.6	0.08	0.04	0.57	65	0.17	3.37	51	0.7
176	49.9129	-121.2685	5330386	624314	125	9.04	0.15	1.79	5.6	140	0.23	0.25	0.33	0.30	7.62	8.50	21.00	0.87	4.17	12.70	0.05	0.03	0.02	0.03	0.05	3.7	10.5	0.45	236	0.01	1.64	9.4	540	5.4	5.0	0.001	0.02	0.12	2.9	0.2	0.5	29.5	0.01	0.08	0.7	0.15	0.04	0.42	102	0.22	1.50	110	1.1
177	49.9133	-121.2691	5330431	624269	114	11.40	0.23	1.85	4.2	1																																											



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To: **BRIED, BRUCE**
6140-48A AVENUE
DELTA BC V4K 1Y8

Page: 1
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
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 20-OCT-2017
 Account: BRIBRU

CERTIFICATE VA17214351

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 4-OCT-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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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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CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
#1001		0.32	9.57	0.38	1.6	0.04	<10	120	0.05	0.92	0.07	0.39	4.70	5.4	7	0.15
#1002		0.24	0.67	0.56	1.5	<0.02	<10	210	0.20	0.33	1.04	0.23	19.15	3.1	7	0.45
#1003		0.24	0.64	0.52	2.5	<0.02	<10	150	0.13	0.42	0.15	0.09	18.20	3.1	6	0.34



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CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01	ME-MS41 Nb ppm 0.05
#1001		>10000	2.43	1.91	<0.05	0.03	0.04	0.178	0.08	2.3	1.4	0.15	98	6.04	0.05	0.16
#1002		766	1.18	2.67	<0.05	<0.02	0.01	0.023	0.13	9.0	2.4	0.15	274	7.01	0.05	<0.05
#1003		705	0.97	2.25	<0.05	0.02	0.01	0.022	0.10	8.3	2.2	0.18	192	3.97	0.06	<0.05



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CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
		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
#1001		3.1	160	1.8	3.5	0.004	1.35	0.48	1.1	6.8	0.6	8.5	<0.01	0.36	0.7	0.023
#1002		2.3	380	21.2	5.2	0.003	0.10	0.09	1.9	0.3	<0.2	24.2	<0.01	0.08	1.5	0.010
#1003		2.1	360	3.8	3.4	0.002	0.12	0.20	1.3	0.4	<0.2	12.2	<0.01	0.10	1.4	<0.005



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CERTIFICATE OF ANALYSIS VA17214351

Sample Description	Method Analyte Units LOR	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Cu-OG46 Cu % 0.001
#1001		0.02	0.63	15	0.19	1.58	41	0.6	1.435
#1002		0.05	0.56	14	<0.05	6.09	58	<0.5	
#1003		0.02	0.91	12	<0.05	5.34	33	0.5	



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CERTIFICATE OF ANALYSIS VA17214351

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

CRU-31	Cu-OG46	LOG-22	ME-MS41
ME-OG46	PUL-31	SPL-21	WEI-21

APPENDIX C
ANALYTICAL PROCEDURES
&
ASSAY CERTIFICATES

GEOCHEMICAL PROCEDURE

ME- ICP61

TRACE LEVEL METHODS USING CONVENTIONAL ICP- AES ANALYSIS

SAMPLE DECOMPOSITION

HNO₃ -HClO₄ -HF-HCl digestion, HCl Leach (GEO-4ACID)

ANALYTICAL METHOD

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analyzed by inductively coupled plasma-atomic emission spectrometry. Results are corrected for spectral interelement interferences.

NOTE: Four acid digestions are able to dissolve most minerals; however, although the term “near- total” is used, depending on the sample matrix, not all elements are quantitatively extracted.

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT	DEFAULT OVER-LIMIT METHOD
Silver	Ag	ppm	0.5	100	Ag-OG62
Aluminum	Al	%	0.01	50	
Arsenic	As	ppm	5	10,000	
Barium	Ba	ppm	10	10,000	
Beryllium	Be	ppm	0.5	1,000	
Bismuth	Bi	ppm	2	10,000	
Calcium	Ca	%	0.01	50	
Cadmium	Cd	ppm	0.5	500	
Cobalt	Co	ppm	1	10,000	Co-OG62
Chromium	Cr	ppm	1	10,000	
Copper	Cu	ppm	1	10,000	Cu-OG62
Iron	Fe	%	0.01	50	
Gallium	Ga	ppm	10	10,000	
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10,000	
Magnesium	Mg	%	0.01	50	
Manganese	Mn	ppm	5	100,000	

ME- ICP61

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT	DEFAULT OVER-LIMIT METHOD
Molybdenum	Mo	ppm	1	10,000	Mo-OG62
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10,000	Ni-OG62
Phosphorus	P	ppm	10	10,000	
Lead	Pb	ppm	2	10,000	Pb-OG62
Sulphur	S	%	0.01	10	
Antimony	Sb	ppm	5	10,000	
Scandium	Sc	ppm	1	10,000	
Strontium	Sr	ppm	1	10,000	
Thorium	Th	ppm	20	10,000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10,000	
Uranium	U	ppm	10	10,000	
Vanadium	V	ppm	1	10,000	
Tungsten	W	ppm	10	10,000	
Zinc	Zn	ppm	2	10,000	Zn-OG62

ELEMENTS LISTED BELOW ARE AVAILABLE UPON REQUEST

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT	DEFAULT OVER-LIMIT METHOD
Lithium	Li	ppm	10	10,000	
Niobium	Nb	ppm	5	2,000	
Rubidium	Rb	ppm	10	10,000	
Selenium	Se	ppm	10	1,000	
Tin	Sn	ppm	10	10,000	
Tantalum	Ta	ppm	10	10,000	
Tellurium	Te	ppm	10	10,000	
Yttrium	Y	ppm	10	10,000	
Zirconium	Zr	ppm	5	500	

GEOCHEMICAL PROCEDURE

ME- MS41

ULTRA- TRACE LEVEL METHODS USING ICP- MS AND ICP- AES

SAMPLE DECOMPOSITION

Aqua Regia Digestion (GEO-AR01)

ANALYTICAL METHOD

Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)

Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.50 g) is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, ment spectral interferences.

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	25
Arsenic	As	ppm	0.1	10 000
Gold	Au	ppm	0.2	25
Boron	B	ppm	10	10 000
Barium	Ba	ppm	10	10 000
Beryllium	Be	ppm	0.05	1 000
Bismuth	Bi	ppm	0.01	10 000
Calcium	Ca	%	0.01	25
Cadmium	Cd	ppm	0.01	1 000
Cerium	Ce	ppm	0.02	500
Cobalt	Co	ppm	0.1	10 000
Chromium	Cr	ppm	1	10 000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10 000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10 000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.02	500

ME- MS41

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT
Mercury	Hg	ppm	0.01	10 000
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.2	10 000
Lithium	Li	ppm	0.1	10 000
Magnesium	Mg	%	0.01	25
Manganese	Mn	ppm	5	50 000
Molybdenum	Mo	ppm	0.05	10 000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.05	500
Nickel	Ni	ppm	0.2	10 000
Phosphorus	P	ppm	10	10 000
Lead	Pb	ppm	0.2	10 000
Rubidium	Rb	ppm	0.1	10 000
Rhenium	Re	ppm	0.001	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10 000
Scandium	Sc	ppm	0.1	10 000
Selenium	Se	ppm	0.2	1 000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10 000
Tantalum	Ta	ppm	0.01	500
Tellurium	Te	ppm	0.01	500
Thorium	Th	ppm	0.2	10000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10 000
Uranium	U	ppm	0.05	10 000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.05	10 000
Yttrium	Y	ppm	0.05	500
Zinc	Zn	ppm	2	10 000
Zirconium	Zr	ppm	0.5	500

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.



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 Account: BRIBRU

CERTIFICATE VA16174079

This report is for 5 Soil samples submitted to our lab in Vancouver, BC, Canada on 12-OCT-2016.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: **BRIED, BRUCE**
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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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CERTIFICATE OF ANALYSIS VA16174079

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 Ga ppm
		0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
PS1		0.40	<0.005	0.9	7.65	13	800	1.1	<2	2.31	0.8	18	43	2210	4.86	20
PS2		0.54	0.013	0.5	7.53	32	1160	1.0	<2	2.12	0.5	11	33	2850	6.52	30
PS3		0.34	<0.005	0.9	7.92	5	650	0.8	<2	3.04	<0.5	17	71	129	4.99	20
PS4		0.60	<0.005	0.9	8.03	<5	770	1.0	<2	2.32	1.0	26	66	721	5.29	20
PB1		0.74	0.031	<0.5	7.34	442	780	1.3	5	2.58	<0.5	46	279	121	6.64	20

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CERTIFICATE OF ANALYSIS VA16174079

Sample Description	Method	Analyte	Units	LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61				
					K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	
					%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
					0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	
PS1					0.88	20	1.07	942	14	1.98	20	1170	14	0.05	<5	14	402	<20	0.40	
PS2					1.59	10	1.80	1735	53	1.73	19	1060	36	0.03	<5	16	420	<20	0.60	
PS3					0.81	10	1.80	819	4	2.00	29	1010	7	0.02	<5	18	369	<20	0.43	
PS4					0.88	20	1.43	1610	11	1.72	28	1850	12	0.06	<5	18	324	<20	0.45	
PB1					1.17	10	3.78	1405	2	1.73	251	1120	7	0.05	<5	28	335	<20	0.78	

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CERTIFICATE OF ANALYSIS VA16174079

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
PS1		<10	<10	110	<10	234
PS2		<10	<10	181	10	265
PS3		<10	<10	151	<10	140
PS4		<10	<10	130	<10	438
PB1		10	<10	199	10	131

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CERTIFICATE OF ANALYSIS VA16174079

CERTIFICATE COMMENTS									
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-AA23</td><td>LOG-22</td><td>ME-ICP61</td><td>SCR-41</td></tr><tr><td>WEI-21</td><td></td><td></td><td></td></tr></table>	Au-AA23	LOG-22	ME-ICP61	SCR-41	WEI-21			
Au-AA23	LOG-22	ME-ICP61	SCR-41						
WEI-21									



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 21-JUL-2017
 Account: BRIBRU

CERTIFICATE KL17141940

This report is for 26 Soil samples submitted to our lab in Kamloops, BC, Canada on 11-JUL-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

To: **BRIED, BRUCE**
6140-48A AVENUE
DELTA BC V4K 1Y8

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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 Total # Pages: 2 (A - D)
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CERTIFICATE OF ANALYSIS KL17141940

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
23		0.16	0.63	3.53	8.2	<0.02	<10	200	0.51	0.32	0.41	0.27	12.85	15.5	29	0.92
24		0.13	0.60	2.46	7.9	<0.02	<10	230	0.48	0.31	0.32	0.45	12.35	9.0	17	1.09
25		0.17	0.32	3.16	3.2	<0.02	<10	260	0.41	0.17	0.69	0.20	17.55	15.8	34	0.99
26		0.17	0.36	3.15	4.7	<0.02	<10	240	0.41	0.31	0.47	0.27	20.1	18.3	28	0.67
27		0.17	0.40	2.16	3.8	<0.02	<10	610	0.31	0.31	0.46	0.33	15.85	10.1	19	0.77
28		0.14	0.58	2.99	3.3	<0.02	<10	160	0.46	0.22	0.37	0.65	20.2	22.5	31	1.12
29		0.29	0.08	0.95	7.3	<0.02	<10	90	0.17	0.20	0.21	0.05	13.30	6.3	16	0.42
40		0.13	0.23	2.82	3.8	<0.02	<10	110	0.41	0.25	0.28	0.42	12.30	15.9	30	1.18
41		0.18	0.26	1.81	3.0	<0.02	<10	60	0.32	0.28	0.16	0.29	9.12	6.5	13	0.83
42		0.16	0.17	1.63	3.5	<0.02	<10	50	0.23	0.19	0.16	0.32	7.58	5.8	12	0.55
43		0.15	0.60	2.74	5.8	<0.02	<10	100	0.52	0.48	0.13	0.76	21.1	17.8	16	1.87
44		0.11	0.31	3.36	4.7	<0.02	<10	70	0.40	0.44	0.14	0.14	10.40	11.2	28	1.13
45		0.08	0.26	2.92	3.6	<0.02	<10	50	0.23	0.18	0.15	0.12	7.90	7.8	29	0.67
46		0.10	0.51	3.68	3.8	<0.02	<10	50	0.41	0.27	0.12	0.15	9.46	6.7	23	1.02
47		0.12	0.50	3.06	7.0	<0.02	<10	50	0.31	0.28	0.12	0.09	8.24	7.3	21	1.13
48		0.10	0.20	3.33	5.0	<0.02	<10	80	0.26	0.12	0.20	0.25	11.10	9.6	30	0.78
49		0.12	1.09	2.60	23.2	<0.02	<10	170	0.72	0.24	0.21	0.30	21.3	10.2	18	1.89
50		0.13	0.54	2.57	25.5	<0.02	<10	250	0.76	0.24	0.34	0.74	24.0	16.4	43	2.12
51		0.14	0.30	1.81	5.1	<0.02	<10	110	0.26	0.28	0.17	0.42	7.58	6.7	20	1.11
52		0.14	0.38	2.51	4.0	<0.02	<10	100	0.32	0.24	0.28	0.33	9.78	8.4	23	0.87
53		0.12	0.46	2.38	5.3	<0.02	<10	100	0.31	0.30	0.25	0.25	9.36	9.3	22	1.06
54		0.18	0.31	2.48	3.5	<0.02	<10	140	0.32	0.23	0.23	0.27	8.38	8.4	22	0.98
55		0.11	0.47	2.74	6.0	<0.02	<10	140	0.42	0.24	0.23	0.30	11.25	9.0	24	1.30
56		0.13	0.56	2.41	8.6	<0.02	<10	140	0.44	0.28	0.28	0.47	10.05	10.1	23	1.27
57		0.11	0.39	1.85	10.0	<0.02	<10	90	0.40	0.33	0.10	0.25	7.56	5.6	11	1.14
58		0.14	0.59	2.70	11.3	<0.02	<10	90	0.50	0.33	0.14	0.20	8.70	8.7	15	1.15

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



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 North Vancouver BC V7H 0A7
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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 20-JUL-2017
 Account: BRIBRU

CERTIFICATE OF ANALYSIS KL17141940

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm
		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
23		159.5	4.12	9.28	0.08	0.02	0.06	0.043	0.08	4.9	9.0	0.96	401	6.93	0.02	0.82
24		438	5.04	14.25	0.09	0.03	0.06	0.047	0.06	11.9	10.1	0.46	305	16.60	0.01	1.56
25		293	3.61	10.05	0.11	0.02	0.04	0.025	0.14	9.6	9.6	1.17	574	4.29	0.03	0.83
26		231	4.31	8.93	0.10	0.03	0.07	0.025	0.13	8.1	8.4	0.77	637	16.45	0.02	0.99
27		160.0	4.26	8.74	0.09	<0.02	0.02	0.029	0.25	9.1	12.5	0.74	408	9.49	0.03	0.67
28		103.0	3.61	10.50	0.09	0.02	0.04	0.025	0.14	8.7	13.8	0.88	1200	2.61	0.02	0.98
29		215	2.50	3.72	0.08	<0.02	0.01	0.014	0.08	4.2	3.3	0.33	220	23.6	0.01	0.39
40		77.2	4.90	14.65	0.08	0.06	0.03	0.038	0.05	5.3	11.8	0.70	469	3.35	0.02	1.74
41		38.3	3.69	11.80	0.06	0.02	0.06	0.025	0.03	4.7	7.0	0.24	236	3.63	0.01	1.25
42		51.2	2.51	5.71	0.06	<0.02	0.07	0.020	0.03	3.5	4.1	0.26	297	3.70	0.01	0.44
43		89.2	3.72	11.75	0.07	0.03	0.07	0.039	0.05	8.5	11.5	0.24	880	12.80	0.01	1.84
44		460	3.96	11.30	0.08	0.02	0.07	0.052	0.06	5.0	7.3	0.82	490	7.74	0.02	0.91
45		91.5	3.27	8.97	0.06	0.05	0.08	0.027	0.03	3.9	5.1	0.30	165	3.23	0.01	1.19
46		431	3.30	9.93	0.06	0.12	0.08	0.050	0.03	4.7	6.9	0.36	216	10.90	0.01	1.64
47		344	3.28	8.93	0.07	0.11	0.06	0.037	0.03	3.7	7.0	0.35	176	3.86	0.01	1.59
48		790	2.70	6.32	0.06	0.09	0.06	0.020	0.03	4.9	7.1	0.48	195	5.48	0.02	0.83
49		3100	3.22	10.95	0.11	0.03	0.03	0.035	0.05	19.4	9.5	0.47	353	9.21	0.01	1.20
50		2410	4.00	11.90	0.10	0.02	0.03	0.047	0.06	12.5	19.3	0.63	988	9.96	0.01	1.03
51		183.5	3.87	12.20	0.06	0.03	0.03	0.028	0.05	4.1	8.3	0.38	211	7.48	0.01	1.65
52		154.5	3.52	11.25	0.06	0.03	0.06	0.030	0.04	4.4	7.9	0.47	295	6.22	0.01	1.41
53		160.5	4.06	13.80	0.06	0.03	0.05	0.034	0.06	4.3	10.1	0.57	320	4.72	0.02	1.43
54		93.9	3.40	11.30	0.06	0.04	0.05	0.028	0.06	3.9	8.8	0.48	308	2.86	0.01	1.47
55		394	3.78	12.40	0.08	0.03	0.05	0.044	0.05	4.4	15.2	0.55	417	8.04	0.01	1.43
56		654	3.80	11.65	0.08	0.03	0.03	0.042	0.05	6.5	12.3	0.56	333	10.20	0.01	1.44
57		501	3.30	11.70	0.07	0.03	0.04	0.036	0.04	4.8	9.1	0.25	215	6.81	<0.01	1.72
58		201	3.77	10.15	0.07	0.02	0.07	0.039	0.05	4.1	11.3	0.34	422	8.22	<0.01	1.42



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 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 Total # Pages: 2 (A - D)
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 Account: BRIBRU

CERTIFICATE OF ANALYSIS KL17141940

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm	ME-MS41 Ti %
		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
23		24.1	1390	9.5	10.7	<0.001	0.04	0.14	5.0	0.6	0.3	23.9	<0.01	0.29	0.7	0.120
24		9.8	710	7.7	10.4	0.011	0.08	0.16	2.8	2.1	0.5	30.6	<0.01	0.10	0.3	0.131
25		24.1	920	5.8	11.2	0.006	0.05	0.15	5.8	1.5	0.4	50.9	<0.01	0.10	0.4	0.130
26		16.3	750	8.8	8.7	0.008	0.08	0.15	3.8	1.8	0.3	47.7	<0.01	0.22	0.4	0.117
27		12.8	930	6.6	11.3	0.006	0.43	0.25	4.3	1.7	0.3	95.4	<0.01	0.11	0.3	0.100
28		18.5	1200	7.0	27.7	<0.001	0.06	0.14	3.7	0.9	0.4	27.0	<0.01	0.09	0.2	0.124
29		5.7	970	3.0	4.4	0.001	0.03	0.23	1.8	0.9	<0.2	9.6	<0.01	0.06	0.8	0.048
40		17.7	680	7.2	9.2	<0.001	0.03	0.12	5.0	0.5	0.6	20.2	<0.01	0.05	1.1	0.178
41		5.7	540	5.9	5.6	<0.001	0.04	0.13	1.6	0.5	0.5	17.1	<0.01	0.06	0.3	0.102
42		6.3	900	4.5	3.7	<0.001	0.04	0.14	1.2	0.4	0.2	13.3	<0.01	0.06	<0.2	0.048
43		7.6	780	11.4	14.1	0.001	0.05	0.31	3.0	1.0	0.8	13.8	0.03	0.07	1.1	0.111
44		13.3	860	5.4	11.1	<0.001	0.05	0.09	7.5	1.1	0.5	9.9	0.01	0.11	0.6	0.122
45		10.1	580	4.7	6.3	<0.001	0.04	0.11	3.0	0.6	0.4	12.0	0.03	0.03	0.6	0.100
46		9.2	900	6.4	7.5	<0.001	0.04	0.12	3.8	0.9	0.5	10.2	0.05	0.05	1.1	0.107
47		8.8	690	5.2	7.9	<0.001	0.04	0.11	3.3	0.7	0.5	9.0	0.04	0.05	1.4	0.109
48		18.6	590	3.2	5.5	<0.001	0.04	0.08	3.4	0.7	0.3	15.6	0.01	0.03	0.7	0.081
49		12.4	710	7.0	11.4	0.001	0.05	0.18	5.0	1.3	0.6	18.4	0.01	0.06	0.5	0.109
50		27.6	1000	6.9	16.6	0.001	0.04	0.22	5.2	0.9	0.7	27.3	<0.01	0.05	0.4	0.114
51		9.4	330	6.7	10.8	<0.001	0.03	0.15	3.1	0.4	0.6	15.5	<0.01	0.05	0.8	0.141
52		11.7	440	6.0	9.1	<0.001	0.04	0.13	3.2	0.5	0.5	21.5	<0.01	0.06	0.4	0.127
53		11.7	750	7.3	11.3	<0.001	0.04	0.14	3.3	0.5	0.6	21.4	<0.01	0.07	0.4	0.143
54		11.7	820	7.4	11.9	<0.001	0.03	0.13	3.2	0.3	0.6	22.5	<0.01	0.06	0.7	0.148
55		17.0	660	8.3	10.0	<0.001	0.03	0.18	3.8	0.5	0.6	21.7	<0.01	0.06	0.5	0.129
56		14.5	550	8.5	10.1	<0.001	0.04	0.15	3.4	0.7	0.6	23.0	<0.01	0.08	0.4	0.129
57		6.7	1090	7.8	8.3	<0.001	0.02	0.14	2.9	0.5	0.8	9.8	0.01	0.05	0.6	0.132
58		9.0	1610	8.3	10.2	<0.001	0.03	0.18	3.1	0.5	0.6	15.0	0.01	0.07	0.7	0.098



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 Account: BRIBRU

CERTIFICATE OF ANALYSIS KL17141940

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
23		0.05	0.82	81	0.57	4.46	159	0.9
24		0.05	1.74	74	0.31	9.74	86	1.1
25		0.06	1.73	79	0.20	10.70	91	0.9
26		0.07	1.48	84	0.30	7.85	77	1.1
27		0.07	1.75	62	0.42	8.53	80	<0.5
28		0.06	1.18	75	0.79	8.87	229	0.8
29		0.03	0.73	31	0.57	3.79	33	<0.5
40		0.03	0.75	91	0.19	4.49	142	2.7
41		0.04	0.68	58	0.23	3.25	65	0.9
42		0.02	0.67	43	0.27	2.58	46	<0.5
43		0.07	2.55	58	1.12	6.38	226	1.5
44		0.07	1.32	99	0.85	5.44	111	0.9
45		0.03	0.54	96	0.31	2.50	47	2.1
46		0.05	5.09	72	0.30	4.01	73	5.7
47		0.04	1.06	75	0.24	2.90	54	5.3
48		0.03	1.01	76	0.14	3.70	123	3.5
49		0.06	5.28	74	0.24	17.70	90	1.1
50		0.08	3.07	81	0.26	12.80	221	0.6
51		0.03	0.58	81	0.28	3.03	110	1.7
52		0.04	0.79	75	0.24	3.62	65	1.4
53		0.04	0.68	83	0.25	3.34	88	1.1
54		0.04	0.51	76	0.22	2.61	105	1.8
55		0.05	0.63	82	0.19	3.04	132	1.3
56		0.04	1.09	78	0.24	5.58	168	1.0
57		0.05	1.14	71	0.23	2.41	103	1.5
58		0.06	0.64	65	0.26	2.23	103	1.0

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 Account: BRIBRU

CERTIFICATE VA17159577

This report is for 26 Soil samples submitted to our lab in Vancouver, BC, Canada on 31-JUL-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

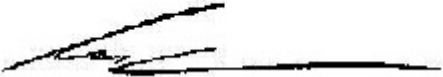
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA05	Cu (nonsulfide) - sulfuric	AAS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

To: **BRIED, BRUCE**
6140-48A AVENUE
DELTA BC V4K 1Y8

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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CERTIFICATE OF ANALYSIS VA17159577

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR															
59		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
60		0.12	0.86	3.24	8.9	<0.02	<10	180	0.60	0.26	0.28	0.76	14.25	14.8	29	1.15
61		0.16	0.69	2.82	10.9	<0.02	<10	180	0.63	0.26	0.22	0.56	14.20	15.5	20	1.20
62		0.12	0.86	1.92	7.5	<0.02	<10	210	0.61	0.24	0.45	0.72	17.75	13.9	18	1.33
63		0.12	0.48	1.93	6.7	<0.02	<10	140	0.48	0.30	0.18	0.75	10.95	11.0	17	1.20
64		0.10	0.37	2.30	4.5	<0.02	<10	170	0.38	0.22	0.28	0.76	7.88	9.4	29	1.04
65		0.10	0.61	2.31	4.1	<0.02	<10	80	0.38	0.21	0.17	0.50	8.86	5.4	18	0.95
66		0.16	0.36	2.11	4.8	<0.02	<10	150	0.32	0.18	0.14	0.67	14.95	6.2	20	1.06
67		0.10	0.27	1.37	5.5	<0.02	<10	130	0.22	0.20	0.23	0.33	9.91	6.2	19	0.86
68		0.14	0.29	1.98	9.5	<0.02	<10	80	0.28	0.23	0.10	0.14	10.50	5.7	16	1.05
69		0.10	0.22	1.70	15.8	<0.02	<10	120	0.37	0.23	0.10	0.11	9.15	6.3	10	1.80
70		0.10	0.25	2.23	29.6	<0.02	<10	110	0.54	0.22	0.07	0.11	13.30	6.5	12	1.76
71		0.08	0.30	2.95	15.9	<0.02	<10	80	0.35	0.31	0.14	0.10	15.20	7.4	18	1.25
72		0.10	0.29	1.49	10.4	<0.02	<10	70	0.30	0.37	0.04	0.08	5.44	4.4	7	1.16
73		0.12	0.49	2.02	15.3	<0.02	<10	70	0.22	0.21	0.12	0.10	7.32	5.2	11	1.23
74		0.12	0.46	2.49	31.6	<0.02	<10	110	0.38	0.25	0.15	0.21	10.25	8.0	22	1.86
75		0.20	0.16	2.20	25.0	<0.02	<10	250	0.62	0.22	0.23	0.38	23.9	11.7	16	1.34
76		0.12	0.36	2.27	19.9	<0.02	<10	330	0.75	0.24	0.45	0.67	20.6	12.5	23	1.68
77		0.10	0.40	2.40	20.4	<0.02	<10	230	0.75	0.23	0.25	0.51	18.55	14.5	37	1.68
78		0.12	0.27	1.61	30.8	<0.02	<10	200	0.58	0.29	0.27	0.62	15.25	10.8	17	2.32
79		0.12	0.51	1.95	109.0	<0.02	<10	160	0.54	0.36	0.18	0.31	10.15	9.5	20	3.35
80		0.14	0.73	3.11	10.7	<0.02	<10	150	0.39	0.26	0.25	0.34	9.42	10.3	25	1.09
81		0.12	0.40	2.12	5.4	<0.02	<10	120	0.38	0.28	0.23	0.20	9.45	6.9	16	1.06
82		0.14	0.49	2.36	33.4	<0.02	<10	130	0.54	0.86	0.20	0.26	14.80	11.6	14	1.63
83		0.10	0.21	0.76	2.7	<0.02	<10	70	0.07	0.29	0.06	0.05	5.49	2.4	7	0.51
84		0.12	0.24	0.93	2.4	<0.02	<10	120	0.21	0.35	0.09	0.08	4.53	2.4	6	0.58
84		0.10	0.55	2.44	3.9	<0.02	<10	160	0.39	0.29	0.23	0.31	14.30	8.9	23	0.89



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CERTIFICATE OF ANALYSIS VA17159577

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	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
LOR		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
59		1005	3.45	9.16	0.05	0.05	0.04	0.034	0.06	5.7	12.1	0.60	456	4.92	0.02	1.33
60		1455	3.48	9.09	0.06	0.02	0.04	0.042	0.05	8.1	12.2	0.48	770	9.41	0.01	1.22
61		1800	3.11	9.24	0.09	0.02	0.05	0.031	0.06	17.5	11.7	0.46	1080	10.80	0.01	0.96
62		876	3.55	10.50	<0.05	0.02	0.04	0.035	0.05	6.0	12.2	0.42	525	8.17	0.01	1.54
63		203	3.66	10.15	<0.05	0.02	0.02	0.032	0.07	3.5	13.2	0.64	319	4.21	0.01	1.31
64		299	3.19	10.30	<0.05	0.02	0.04	0.029	0.04	3.9	9.5	0.33	202	8.88	0.01	1.45
65		666	3.49	9.93	0.05	0.02	0.04	0.031	0.05	7.7	10.5	0.47	228	12.10	0.01	1.28
66		300	3.30	11.25	<0.05	<0.02	0.03	0.026	0.04	5.5	7.5	0.39	203	9.33	0.02	1.30
67		309	3.31	10.85	<0.05	0.03	0.04	0.027	0.04	5.0	8.6	0.38	192	5.53	0.01	1.50
68		259	3.28	10.45	<0.05	<0.02	0.03	0.039	0.09	4.4	11.1	0.35	397	2.15	0.01	1.49
69		402	2.98	8.92	<0.05	0.04	0.04	0.034	0.07	5.1	9.9	0.26	502	3.60	0.01	1.20
70		697	3.34	9.33	<0.05	0.04	0.08	0.042	0.08	5.9	7.5	0.52	419	3.12	0.01	1.26
71		264	2.43	6.21	<0.05	0.02	0.03	0.013	0.05	2.8	9.5	0.18	114	3.56	0.01	0.65
72		413	3.05	10.30	<0.05	<0.02	0.04	0.044	0.06	3.5	6.6	0.44	244	3.18	0.01	1.10
73		944	3.61	10.75	<0.05	0.03	0.04	0.037	0.05	4.5	11.0	0.59	247	9.46	0.01	1.39
74		5320	4.36	10.35	0.11	0.02	<0.01	0.041	0.20	13.6	11.3	0.99	528	12.80	0.01	0.83
75		3410	3.64	9.71	0.08	<0.02	0.02	0.040	0.08	12.7	15.9	0.74	739	8.75	0.01	1.11
76		2170	3.88	10.60	0.06	<0.02	0.02	0.044	0.05	9.3	16.2	0.67	851	9.35	0.02	1.17
77		1890	3.08	7.69	0.06	<0.02	0.02	0.033	0.06	10.8	10.4	0.46	987	11.50	0.02	0.70
78		1210	3.69	8.55	<0.05	<0.02	0.05	0.044	0.06	5.2	9.4	0.31	424	12.55	0.01	0.77
79		303	4.14	10.65	<0.05	0.03	0.06	0.038	0.08	3.9	13.1	0.76	386	6.84	0.01	1.20
80		235	3.36	10.25	<0.05	0.02	0.05	0.029	0.06	4.9	8.6	0.40	407	8.62	0.01	1.34
81		563	6.68	11.40	0.06	0.02	0.05	0.083	0.10	6.0	15.8	0.53	483	12.50	0.01	1.61
82		20.3	1.64	8.77	<0.05	<0.02	0.02	0.011	0.04	2.8	2.2	0.17	143	3.31	0.01	1.15
83		32.1	2.21	8.11	<0.05	<0.02	0.04	0.012	0.06	2.4	2.3	0.18	258	2.16	0.01	1.11
84		176.5	3.75	11.15	<0.05	0.04	0.06	0.028	0.05	5.8	10.4	0.48	428	16.00	0.01	1.63



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	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	%
	LOR	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
59		23.6	770	7.1	11.7	0.001	0.03	0.22	3.7	0.9	0.7	19.5	0.01	0.10	0.6	0.127
60		17.1	840	7.5	10.2	0.002	0.04	0.18	3.7	1.2	0.6	17.4	0.01	0.08	0.6	0.114
61		12.1	700	7.4	11.9	0.012	0.04	0.17	3.1	2.2	0.5	42.0	<0.01	0.07	0.2	0.103
62		12.4	420	8.0	10.9	<0.001	0.02	0.18	3.1	0.8	0.7	17.7	0.01	0.07	0.6	0.147
63		17.2	530	6.0	13.3	<0.001	0.03	0.16	3.3	0.4	0.6	22.7	<0.01	0.06	0.5	0.132
64		7.2	670	6.3	9.3	<0.001	0.05	0.15	2.3	0.8	0.6	12.5	0.01	0.05	0.3	0.113
65		11.1	420	6.4	6.7	0.006	0.05	0.16	2.8	1.7	0.6	16.5	<0.01	0.05	0.3	0.115
66		9.4	320	7.7	8.5	<0.001	0.02	0.18	2.8	0.5	1.0	17.6	<0.01	0.03	0.6	0.130
67		8.6	580	7.4	8.3	<0.001	0.01	0.17	3.4	0.9	0.7	7.2	0.02	0.07	1.2	0.109
68		6.6	1270	7.5	15.6	<0.001	0.02	0.18	3.4	0.4	1.0	9.6	<0.01	0.06	0.7	0.082
69		8.5	620	8.6	17.0	<0.001	0.01	0.19	3.1	0.4	0.7	7.2	0.01	0.05	1.3	0.035
70		10.1	1770	8.1	9.9	<0.001	0.03	0.19	3.7	1.1	0.5	8.8	0.01	0.09	0.8	0.094
71		6.1	450	4.1	11.2	<0.001	0.01	0.12	2.2	0.3	0.3	5.9	<0.01	0.08	0.9	0.016
72		6.2	690	5.6	9.6	<0.001	0.02	0.18	3.2	0.4	0.6	8.5	0.01	0.04	0.6	0.103
73		14.7	520	7.2	9.9	<0.001	0.02	0.24	4.5	0.5	0.7	11.6	0.01	0.06	0.8	0.117
74		14.4	280	5.0	14.2	0.002	0.01	0.23	10.9	1.3	0.6	17.6	<0.01	0.09	1.4	0.177
75		22.2	1040	6.1	13.9	<0.001	0.02	0.23	5.8	1.3	0.6	36.3	<0.01	0.09	0.5	0.119
76		23.2	800	6.9	12.2	0.001	0.02	0.21	4.7	0.6	0.7	18.7	<0.01	0.05	0.6	0.125
77		15.9	710	6.7	14.7	0.003	0.03	0.26	3.3	1.5	0.6	23.6	<0.01	0.07	0.3	0.079
78		14.7	670	7.3	13.6	<0.001	0.02	0.42	3.2	0.8	0.7	15.6	<0.01	0.11	0.3	0.041
79		17.2	1280	6.4	8.4	<0.001	0.02	0.19	4.2	0.9	0.7	16.0	<0.01	0.09	0.6	0.121
80		9.1	640	6.7	11.9	0.001	0.03	0.18	2.3	0.4	0.6	19.5	<0.01	0.08	0.4	0.126
81		10.0	2310	9.3	18.1	<0.001	0.02	0.23	5.7	1.4	0.8	10.5	<0.01	0.27	1.8	0.124
82		3.4	400	7.9	8.9	<0.001	0.01	0.13	1.5	<0.2	0.8	7.7	<0.01	0.02	0.4	0.139
83		3.0	590	8.1	12.1	<0.001	0.02	0.13	1.4	0.3	0.7	16.8	<0.01	0.12	0.3	0.167
84		12.5	470	9.8	10.0	<0.001	0.01	0.14	3.4	0.6	0.8	22.2	<0.01	0.07	0.9	0.159



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-AA05	Cu-AA05
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	CuO %
		0.02	0.05	1	0.05	0.05	2	0.5	0.001	0.001
59		0.07	1.84	67	0.28	5.75	283	1.8		
60		0.06	2.57	62	0.35	8.36	174	1.1		
61		0.09	5.47	58	0.31	17.90	149	0.5		
62		0.05	2.28	69	0.30	4.18	184	0.9		
63		0.05	0.59	74	0.28	2.81	221	0.9		
64		0.05	0.97	63	0.29	4.28	96	0.8		
65		0.04	1.94	65	0.24	6.98	64	0.9		
66		0.04	0.59	86	0.34	3.40	72	0.7		
67		0.05	0.53	75	0.27	3.01	80	1.6		
68		0.08	0.72	57	0.15	2.69	89	<0.5		
69		0.07	0.78	55	0.17	2.56	96	1.1		
70		0.06	1.21	66	0.29	5.05	65	1.8		
71		0.07	0.35	46	0.10	1.07	55	0.7		
72		0.06	0.43	72	0.20	2.90	56	0.8		
73		0.06	0.95	83	0.38	3.50	91	1.5		
74		0.10	6.15	95	0.59	14.80	190	0.7		
75		0.08	4.37	78	0.31	15.15	195	0.6		
76		0.07	2.13	78	0.32	8.74	182	0.6	0.070	0.088
77		0.08	3.26	62	0.19	12.95	149	<0.5		
78		0.06	1.44	75	0.26	4.67	110	<0.5		
79		0.05	0.71	80	0.31	3.89	117	1.2		
80		0.05	0.61	73	0.26	3.25	70	0.9		
81		0.09	0.98	94	0.29	4.17	188	1.1		
82		0.06	0.26	49	0.16	0.93	34	<0.5		
83		0.05	0.29	55	0.11	1.22	38	0.5		
84		0.07	0.88	77	0.25	6.28	121	2.0		



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CERTIFICATE OF ANALYSIS VA17159577

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Cu-AA05 LOG-22 ME-MS41 SCR-41
WEI-21



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CERTIFICATE VA17185342

This report is for 26 Soil samples submitted to our lab in Vancouver, BC, Canada on 31-AUG-2017.
 The following have access to data associated with this certificate:

BRUCE BRIED		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

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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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CERTIFICATE OF ANALYSIS VA17185342

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR															
#85		0.10	0.32	2.39	5.4	<0.02	<10	200	0.57	0.25	0.32	0.23	15.20	12.1	22	0.86
#86		0.10	0.44	3.32	4.9	<0.02	<10	200	0.57	0.19	0.27	0.36	12.75	14.5	32	1.13
#87		0.14	0.57	2.37	4.7	<0.02	<10	170	0.74	0.26	0.26	0.23	13.60	14.8	22	1.05
#88		0.16	0.50	3.52	4.6	<0.02	<10	230	0.68	0.16	0.41	0.15	32.7	26.4	32	1.21
#89		0.12	0.37	3.08	3.7	<0.02	<10	180	0.65	0.19	0.26	0.14	15.60	11.9	27	0.97
#90		0.12	0.26	2.20	4.2	<0.02	<10	110	0.30	0.19	0.21	0.13	6.40	8.1	22	0.88
#91		0.10	0.36	3.52	3.7	<0.02	<10	50	0.48	0.27	0.05	0.07	6.10	2.5	9	0.67
#92		0.18	0.26	2.51	9.8	<0.02	<10	70	0.28	0.22	0.09	0.15	7.00	5.4	18	0.99
#93		0.12	0.28	2.17	16.2	<0.02	<10	110	0.35	0.26	0.07	0.22	7.02	5.1	12	1.49
#94		0.14	0.36	2.92	14.9	<0.02	<10	60	0.32	0.19	0.08	0.10	7.44	5.2	14	1.00
#95		0.12	0.45	2.32	32.1	<0.02	<10	50	0.34	0.20	0.08	0.07	8.32	5.6	14	1.06
#96		0.12	0.37	3.92	18.3	<0.02	<10	90	0.59	0.29	0.08	0.21	18.00	6.2	20	2.07
#97		0.16	0.17	2.31	12.4	<0.02	<10	90	0.44	0.21	0.06	0.08	11.20	6.6	11	1.88
#98		0.12	0.76	2.34	17.9	<0.02	<10	300	0.76	0.21	0.57	0.74	18.45	14.1	27	1.68
#99		0.14	0.55	1.74	15.4	<0.02	<10	280	0.58	0.20	0.38	0.81	19.30	10.9	16	1.43
#100		0.14	0.29	3.16	9.8	0.02	<10	160	0.43	0.25	0.39	0.27	9.27	11.9	27	0.86
#101		0.14	0.59	2.67	9.5	<0.02	<10	220	0.46	0.22	0.37	0.29	12.50	12.8	28	1.46
#102		0.16	0.52	2.70	6.6	<0.02	<10	110	0.40	0.29	0.19	0.26	9.77	8.5	21	1.12
#103		0.16	0.25	1.94	7.9	<0.02	<10	100	0.40	0.27	0.15	0.27	9.77	7.0	16	1.04
#104		0.14	0.55	2.81	7.3	<0.02	<10	120	0.41	0.31	0.34	0.16	7.15	6.5	16	1.00
#105		0.12	0.13	1.43	3.2	<0.02	<10	90	0.20	0.33	0.17	0.14	6.86	5.4	12	0.78
#106		0.12	0.37	1.91	11.0	<0.02	<10	110	0.39	0.25	0.12	0.21	9.56	7.3	15	0.92
#107		0.12	0.46	2.13	6.5	<0.02	<10	70	0.34	0.33	0.12	0.23	10.25	4.8	13	0.90
#108		0.12	0.37	1.85	10.3	<0.02	<10	100	0.37	0.31	0.17	0.41	9.39	6.6	23	1.22
#109		0.12	0.30	3.44	10.0	<0.02	<10	70	0.36	0.28	0.15	0.14	8.98	8.0	24	1.17
#110		0.16	0.11	2.61	10.9	<0.02	<10	60	0.25	0.08	0.18	0.10	14.70	11.0	26	0.41



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	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
LOR		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
#85		403	3.73	11.45	0.07	0.04	0.08	0.032	0.06	9.6	11.6	0.48	419	18.50	0.05	1.73
#86		130.0	4.15	12.20	0.05	0.03	0.06	0.035	0.08	6.1	17.8	0.89	432	4.20	0.02	1.38
#87		691	3.38	10.10	0.06	0.03	0.04	0.034	0.05	8.0	10.7	0.51	602	7.45	0.02	1.52
#88		1665	3.36	8.83	0.07	0.02	0.06	0.027	0.06	9.9	13.0	0.97	980	7.99	0.02	0.98
#89		334	3.61	10.65	0.06	0.05	0.05	0.028	0.06	8.7	11.1	0.73	342	5.37	0.02	1.54
#90		130.0	3.37	10.00	<0.05	0.02	0.04	0.024	0.05	2.8	9.9	0.58	313	3.23	0.02	1.33
#91		58.0	3.03	13.95	<0.05	0.17	0.08	0.028	0.03	2.8	6.5	0.13	109	3.23	0.02	3.30
#92		106.0	3.75	12.25	<0.05	0.04	0.06	0.031	0.05	4.9	9.3	0.38	207	3.55	0.01	1.99
#93		142.0	2.86	10.70	<0.05	0.04	0.04	0.035	0.05	3.0	13.5	0.20	356	4.63	0.01	2.27
#94		220	2.71	6.78	<0.05	0.08	0.07	0.032	0.04	3.3	7.3	0.28	191	2.44	0.01	1.15
#95		360	3.26	7.66	<0.05	0.03	0.05	0.033	0.04	3.4	8.8	0.29	173	3.20	0.01	1.19
#96		523	4.40	11.85	0.09	0.08	0.15	0.059	0.04	8.1	12.1	0.33	242	7.42	0.01	2.44
#97		374	2.86	9.35	0.05	0.02	0.05	0.035	0.07	4.0	11.9	0.33	254	2.11	0.01	1.42
#98		3860	3.42	10.25	0.15	0.03	0.03	0.039	0.09	27.5	17.9	0.71	903	9.26	0.02	1.12
#99		2820	3.05	8.86	0.11	0.02	0.02	0.036	0.08	14.7	14.0	0.57	621	7.74	0.01	0.93
#100		336	4.01	9.30	0.08	0.02	0.05	0.036	0.06	3.9	10.3	0.78	358	6.84	0.02	1.07
#101		1345	3.51	10.55	0.10	0.02	0.03	0.035	0.09	10.5	12.4	0.76	449	8.37	0.02	1.22
#102		234	3.58	11.50	0.07	0.07	0.07	0.033	0.06	3.8	10.3	0.56	251	5.54	0.01	1.77
#103		831	3.22	10.55	0.08	0.02	0.04	0.032	0.05	7.7	8.9	0.42	274	6.07	0.01	1.33
#104		295	4.09	12.00	0.07	0.02	0.07	0.043	0.05	3.5	9.8	0.42	219	7.85	0.01	1.47
#105		88.3	3.11	9.62	0.06	<0.02	0.04	0.026	0.04	2.8	6.8	0.30	187	10.50	0.01	1.27
#106		470	3.48	10.95	0.07	0.03	0.04	0.036	0.05	4.2	9.3	0.38	243	9.78	0.01	1.64
#107		589	2.56	8.68	0.06	0.02	0.08	0.036	0.03	4.1	7.0	0.36	180	8.94	0.01	1.04
#108		823	2.96	10.75	0.08	0.02	0.04	0.030	0.04	6.0	8.9	0.47	273	13.00	0.01	1.18
#109		349	3.52	10.80	0.07	0.05	0.08	0.038	0.04	3.6	10.8	0.55	252	7.61	0.02	1.58
#110		469	2.90	5.11	0.06	0.06	0.04	0.022	0.03	3.5	4.2	0.41	240	2.01	0.02	0.63



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
#85		12.7	420	8.1	7.8	<0.001	0.07	0.13	4.4	0.9	0.6	36.2	<0.01	0.05	0.8	0.160
#86		23.6	900	6.8	11.5	<0.001	0.05	0.14	4.8	0.6	0.6	24.2	<0.01	0.05	0.5	0.131
#87		13.8	580	8.1	11.3	0.002	0.04	0.13	3.7	1.0	0.6	21.7	0.01	0.05	0.5	0.143
#88		22.4	710	5.4	9.2	0.005	0.05	0.12	5.1	1.5	0.4	30.3	<0.01	0.04	0.5	0.109
#89		17.0	460	6.0	8.5	<0.001	0.03	0.14	4.9	0.9	0.5	19.6	0.01	0.04	0.8	0.157
#90		12.6	580	5.2	10.1	<0.001	0.03	0.12	3.1	0.3	0.5	15.0	<0.01	0.04	0.4	0.137
#91		4.1	870	8.4	4.3	<0.001	0.04	0.15	2.7	0.5	1.0	6.5	0.03	0.04	1.2	0.172
#92		8.3	720	6.5	7.7	<0.001	0.04	0.14	3.1	0.4	0.6	8.2	0.01	0.04	0.8	0.127
#93		7.4	770	7.6	12.7	<0.001	0.03	0.15	2.0	0.3	0.9	8.0	0.02	0.02	0.7	0.112
#94		6.6	1140	4.5	8.5	<0.001	0.04	0.14	2.7	0.7	0.3	7.5	0.01	0.04	0.9	0.074
#95		6.6	600	5.9	5.7	<0.001	0.03	0.25	3.2	0.6	0.4	7.8	0.01	0.05	1.0	0.055
#96		10.1	990	9.2	10.5	<0.001	0.04	0.29	4.8	1.4	0.6	9.4	0.03	0.05	1.1	0.108
#97		8.1	480	8.5	15.0	<0.001	0.01	0.19	3.6	0.6	0.6	6.2	0.01	0.04	0.9	0.048
#98		23.5	930	6.0	14.1	0.005	0.03	0.22	6.2	2.2	0.6	46.0	<0.01	0.05	0.4	0.113
#99		15.0	790	6.7	14.5	0.005	0.02	0.21	5.3	1.6	0.5	34.9	<0.01	0.04	0.3	0.096
#100		19.2	1090	9.7	6.6	<0.001	0.03	0.16	4.7	0.8	0.4	31.3	<0.01	0.15	0.6	0.110
#101		20.0	500	7.7	11.8	0.001	0.03	0.17	4.9	1.1	0.6	33.3	<0.01	0.06	0.5	0.130
#102		13.4	470	7.0	10.7	<0.001	0.02	0.16	4.6	0.7	0.6	16.0	0.01	0.07	0.9	0.162
#103		9.9	590	6.2	9.7	<0.001	0.01	0.14	3.9	0.9	0.5	14.6	0.01	0.06	0.6	0.109
#104		9.0	990	5.4	8.8	<0.001	0.04	0.18	3.5	1.0	0.5	33.7	0.01	0.10	0.4	0.112
#105		6.7	310	5.2	8.1	<0.001	0.02	0.13	2.4	0.6	0.5	18.5	<0.01	0.07	0.3	0.113
#106		8.6	370	6.4	9.1	<0.001	0.02	0.13	3.4	0.7	0.6	14.6	0.01	0.05	0.6	0.127
#107		7.3	620	4.5	6.0	<0.001	0.04	0.13	2.6	0.9	0.4	12.9	0.01	0.10	0.3	0.080
#108		12.0	440	6.0	9.7	0.001	0.02	0.14	3.1	0.8	0.5	17.1	0.01	0.06	0.3	0.102
#109		13.9	650	5.5	7.6	<0.001	0.03	0.15	4.9	0.7	0.5	11.8	0.01	0.04	0.8	0.116
#110		11.9	920	3.8	3.6	<0.001	0.02	0.08	3.7	0.6	0.2	12.6	<0.01	0.03	0.8	0.059



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CERTIFICATE OF ANALYSIS VA17185342

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Tl	U	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.05	1	0.05	0.05	2	0.5
#85		0.06	2.69	75	0.25	9.27	79	1.7
#86		0.05	0.81	81	0.16	4.91	130	1.2
#87		0.06	1.40	72	0.20	7.35	105	1.1
#88		0.10	2.23	70	0.17	11.40	76	0.5
#89		0.06	0.98	84	0.20	8.12	72	1.7
#90		0.03	0.36	80	0.19	1.97	66	0.6
#91		0.03	0.77	62	0.25	2.11	31	9.5
#92		0.04	0.49	81	0.21	2.36	54	2.1
#93		0.05	0.52	51	0.28	1.48	168	2.0
#94		0.04	0.64	54	0.25	2.40	69	2.9
#95		0.05	0.69	64	0.13	2.50	52	0.8
#96		0.06	1.54	65	0.18	5.88	98	3.7
#97		0.08	0.67	57	0.21	2.21	76	1.0
#98		0.07	9.26	74	0.24	24.4	193	0.6
#99		0.06	6.57	63	0.28	16.20	178	<0.5
#100		0.04	0.88	75	0.30	3.95	121	1.0
#101		0.06	2.06	77	0.23	8.82	113	0.9
#102		0.07	0.66	78	0.29	3.37	103	3.0
#103		0.04	1.82	68	0.31	6.08	89	0.9
#104		0.05	0.90	72	0.33	3.31	78	1.3
#105		0.04	0.50	67	0.27	2.51	54	0.7
#106		0.04	0.85	70	0.24	3.10	85	1.2
#107		0.04	0.84	53	0.44	3.37	51	0.6
#108		0.04	1.74	63	0.22	5.45	103	0.9
#109		0.04	0.78	75	0.25	3.00	71	2.0
#110		0.03	0.66	84	0.08	3.42	39	2.2



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-22 ME-MS41 SCR-41 WEI-21



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CERTIFICATE VA17191213

This report is for 5 Soil samples submitted to our lab in Vancouver, BC, Canada on 7-SEP-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

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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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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
111		0.10	0.48	4.14	9.2	<0.02	<10	70	0.23	0.22	0.13	0.21	11.40	6.7	24	1.11
112		0.10	0.60	2.98	18.6	<0.02	<10	140	0.84	0.33	0.30	0.25	22.6	9.0	21	1.28
113		0.14	0.32	2.35	49.7	<0.02	<10	70	0.32	1.06	0.27	0.11	32.0	9.8	15	0.77
114		0.12	0.47	1.91	5.8	<0.02	<10	80	0.22	0.30	0.10	0.07	9.85	5.6	19	0.79
115		0.16	0.04	1.46	1.5	<0.02	<10	50	0.19	0.04	0.10	0.04	6.97	4.4	9	0.46



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CERTIFICATE OF ANALYSIS VA17191213

Sample Description	Method Analyte Units LOR	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm
		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
111		276	3.76	9.58	0.07	0.07	0.14	0.043	0.04	5.5	11.0	0.50	219	9.37	0.02	1.57
112		2340	3.00	8.46	0.11	0.03	0.07	0.041	0.07	24.5	10.7	0.60	381	14.40	0.02	0.73
113		977	3.04	4.68	0.06	0.02	0.05	0.079	0.06	11.0	4.2	0.31	267	16.30	0.02	0.36
114		338	3.32	11.05	0.06	0.04	0.08	0.029	0.03	5.7	7.6	0.29	186	3.96	0.02	1.75
115		7.8	1.44	3.66	0.05	0.05	0.03	0.011	0.02	3.4	6.5	0.16	109	0.33	0.01	0.86

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Sample Description	Method	Analyte	Units	LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41				
					Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
					ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					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
111					12.5	910	5.9	6.9	<0.001	0.05	0.22	3.7	1.3	0.5	10.0	0.02	0.05	0.6	0.102
112					14.5	700	5.1	10.4	0.005	0.05	0.15	4.1	1.7	0.4	23.4	0.01	0.10	0.3	0.075
113					8.4	1630	8.8	8.0	0.002	0.01	0.16	3.5	1.4	0.2	10.7	<0.01	0.42	1.6	0.014
114					8.2	410	7.7	6.4	<0.001	0.01	0.13	3.1	0.4	0.7	9.1	0.02	0.06	0.9	0.108
115					6.2	400	2.3	3.7	<0.001	<0.01	0.07	1.5	0.2	0.2	10.2	0.02	0.02	0.9	0.059

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



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To: BRIED, BRUCE
 6140-48A AVENUE
 DELTA BC V4K 1Y8

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 Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17191213

Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
111		0.05	0.98	71	0.23	3.91	72	3.0
112		0.06	7.65	58	0.25	24.8	98	0.8
113		0.07	2.63	56	0.17	8.83	46	0.6
114		0.04	1.05	81	0.16	3.65	46	1.9
115		0.02	0.28	33	<0.05	2.30	24	2.0



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Finalized Date: 20-SEP-2017
Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17191213

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-22 ME-MS41 SCR-41 WEI-21



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 16-OCT-2017
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CERTIFICATE VA17214348

This report is for 12 Soil samples submitted to our lab in Vancouver, BC, Canada on 4-OCT-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

To: **BRIED, BRUCE**
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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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CERTIFICATE OF ANALYSIS VA17214348

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
#116		0.16	0.49	2.72	4.6	<0.02	<10	140	0.40	0.27	0.25	0.31	11.65	12.8	24	1.04
#117		0.14	0.57	1.58	11.7	<0.02	<10	280	0.61	0.20	0.92	1.02	15.45	12.6	14	1.29
#118		0.14	0.63	2.71	8.4	<0.02	<10	160	0.57	0.20	0.24	0.72	21.9	15.6	26	1.53
#119		0.12	0.56	2.05	3.6	<0.02	<10	150	0.38	0.22	0.40	0.27	10.85	7.6	13	0.91
#120		0.14	0.60	4.36	4.7	<0.02	<10	170	0.63	0.33	0.17	0.66	10.30	9.4	19	1.30
#121		0.16	0.18	3.94	9.7	<0.02	<10	420	0.37	0.27	0.65	0.28	18.05	13.0	38	0.98
#122		0.18	0.29	2.10	3.8	<0.02	<10	220	0.30	0.19	0.32	0.34	15.65	7.3	19	0.95
#123		0.18	0.26	2.64	10.3	<0.02	<10	130	0.34	0.20	0.21	0.25	10.85	8.6	21	1.12
#124		0.18	0.35	2.65	36.8	<0.02	<10	290	0.54	0.28	0.28	0.35	14.50	7.6	18	1.52
#125		0.18	0.44	3.66	19.5	<0.02	<10	100	0.43	0.16	0.16	0.12	8.61	8.6	20	1.20
#126		0.12	0.42	3.60	47.7	<0.02	<10	80	0.54	0.32	0.08	0.11	13.30	6.8	10	1.90
#127		0.12	0.54	3.39	27.6	<0.02	<10	80	0.47	0.31	0.14	0.12	14.65	7.8	18	1.53



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CERTIFICATE OF ANALYSIS VA17214348

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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
#116		198.0	3.39	10.15	<0.05	0.03	0.04	0.034	0.07	5.3	10.0	0.66	424	3.71	0.02	1.29
#117		2930	2.67	6.64	0.10	0.02	0.06	0.030	0.05	20.8	8.3	0.39	769	7.07	0.02	0.73
#118		1730	3.32	9.36	0.06	0.03	0.04	0.031	0.07	15.7	13.2	0.56	844	7.84	0.02	1.05
#119		599	2.46	7.19	<0.05	0.02	0.05	0.024	0.06	7.7	5.8	0.37	635	10.75	0.02	1.03
#120		329	4.01	12.20	<0.05	0.12	0.08	0.043	0.05	4.7	10.4	0.33	386	5.65	0.02	3.21
#121		1250	4.87	11.05	0.06	0.04	0.04	0.036	0.15	7.8	13.7	1.56	703	8.21	0.04	1.28
#122		353	3.68	10.35	<0.05	0.03	0.05	0.021	0.06	6.6	8.2	0.54	316	4.31	0.02	1.36
#123		302	3.96	9.21	<0.05	0.02	0.05	0.027	0.06	4.9	9.2	0.65	315	2.96	0.02	1.17
#124		1320	4.08	11.05	<0.05	0.04	0.05	0.047	0.06	6.6	15.1	0.45	315	6.11	0.02	1.68
#125		740	3.41	6.79	<0.05	0.06	0.08	0.032	0.05	3.9	7.1	0.58	294	2.23	0.02	1.02
#126		735	3.62	9.40	<0.05	0.05	0.09	0.053	0.07	5.7	9.9	0.32	504	3.90	0.01	1.62
#127		420	3.90	9.15	<0.05	0.05	0.10	0.045	0.06	6.0	8.2	0.41	388	4.66	0.02	1.78



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CERTIFICATE OF ANALYSIS VA17214348

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
#116		17.2	950	8.4	10.4	0.001	0.04	0.19	4.0	0.5	0.6	18.0	0.01	0.11	0.8	0.136
#117		10.3	770	5.0	9.8	0.019	0.09	0.19	2.6	2.2	0.4	87.9	<0.01	0.06	<0.2	0.071
#118		21.8	730	5.4	16.0	0.003	0.06	0.21	3.8	0.6	0.5	19.6	<0.01	0.05	0.4	0.114
#119		6.8	800	5.6	8.5	0.003	0.04	2.62	2.2	0.8	0.4	29.1	0.01	0.05	0.2	0.094
#120		9.5	760	8.3	11.2	<0.001	0.05	2.62	3.0	0.2	1.0	14.0	0.06	0.04	0.8	0.195
#121		24.5	700	5.5	10.5	0.002	0.03	0.75	7.0	0.8	0.5	36.5	<0.01	0.12	0.8	0.204
#122		9.9	610	6.1	9.2	<0.001	0.03	0.72	3.1	0.2	0.6	21.7	<0.01	0.06	0.4	0.145
#123		12.8	620	4.9	9.7	<0.001	0.02	0.76	3.7	0.3	0.4	13.8	<0.01	0.13	0.5	0.124
#124		9.7	520	8.7	9.5	0.001	0.02	0.58	4.2	0.5	0.8	19.2	0.01	0.07	0.9	0.120
#125		10.0	910	4.5	7.3	<0.001	0.03	1.03	4.9	0.4	0.3	10.7	0.01	0.06	1.1	0.096
#126		5.5	1370	9.1	11.6	<0.001	0.03	1.13	3.4	0.6	0.6	6.5	0.03	0.07	0.7	0.070
#127		8.5	1310	9.5	10.7	<0.001	0.04	0.74	3.9	0.6	0.6	8.9	0.02	0.07	0.9	0.120



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CERTIFICATE OF ANALYSIS VA17214348

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
#116		0.05	0.86	70	0.22	3.89	145	1.5
#117		0.06	7.52	48	0.27	22.1	144	<0.5
#118		0.09	6.34	66	0.21	15.30	196	1.0
#119		0.05	1.78	50	0.22	5.96	72	0.6
#120		0.05	1.10	67	0.22	3.40	121	5.9
#121		0.07	1.46	113	0.15	8.90	124	1.2
#122		0.04	0.74	80	0.17	4.02	90	0.8
#123		0.05	0.65	83	0.16	3.58	105	0.9
#124		0.06	2.77	85	0.17	6.17	178	1.1
#125		0.06	0.83	70	0.17	4.27	73	2.1
#126		0.08	1.59	58	0.22	4.52	102	2.2
#127		0.09	1.31	72	0.19	4.38	119	2.6

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CERTIFICATE OF ANALYSIS VA17214348

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-22 ME-MS41 SCR-41 WEI-21



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 Account: BRIBRU

CERTIFICATE VA17216276

This report is for 11 Soil samples submitted to our lab in Vancouver, BC, Canada on 6-OCT-2017.
 The following have access to data associated with this certificate:

BRUCE BRIED		
-------------	--	--

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

To: **BRIED, BRUCE**
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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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CERTIFICATE OF ANALYSIS VA17216276

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
#128		0.12	0.39	2.15	13.4	<0.02	<10	170	0.46	0.31	0.29	0.29	20.7	9.9	17	0.94
#129		0.12	0.54	2.39	42.8	<0.02	<10	130	0.26	0.42	0.28	0.21	8.13	6.1	23	1.91
#130		0.16	0.28	2.54	12.3	<0.02	<10	170	0.46	0.39	0.46	0.63	14.75	12.6	30	1.49
#131		0.14	0.18	2.59	5.2	<0.02	<10	130	0.26	0.37	0.49	0.41	11.75	11.5	29	0.84
#132		0.10	0.34	2.95	6.5	<0.02	<10	140	0.47	0.28	0.19	0.38	11.55	9.9	31	1.73
#133		0.12	0.98	4.39	67.0	<0.02	<10	160	0.63	0.64	0.16	0.25	31.1	29.0	40	2.42
#134		0.16	0.27	2.40	5.5	<0.02	<10	60	0.32	0.41	0.18	0.25	14.70	10.5	28	0.67
#135		0.12	0.27	2.50	4.4	<0.02	<10	90	0.30	0.21	0.21	0.46	9.87	10.0	26	0.76
#136		0.14	0.32	2.57	16.7	<0.02	<10	60	0.34	0.30	0.10	0.16	10.05	6.2	22	1.24
#137		0.10	0.47	2.62	10.0	<0.02	<10	60	0.43	0.28	0.12	0.20	12.70	11.7	23	1.14
#138		0.18	0.92	1.88	17.8	<0.02	<10	180	0.60	0.30	0.35	0.30	21.9	9.6	23	1.73



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CERTIFICATE OF ANALYSIS VA17216276

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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
#128		1785	4.38	9.21	0.07	0.03	0.03	0.042	0.06	16.3	9.3	0.55	381	15.65	0.02	1.06
#129		303	4.33	12.30	<0.05	0.02	0.06	0.036	0.06	3.9	9.1	0.34	414	6.51	0.02	1.64
#130		2460	3.99	8.46	0.05	0.02	0.03	0.034	0.08	12.3	16.2	0.75	1060	13.90	0.02	0.66
#131		251	3.99	6.80	<0.05	<0.02	0.04	0.031	0.09	5.7	5.5	0.62	522	4.13	0.02	0.59
#132		134.5	3.93	8.72	<0.05	0.02	0.05	0.037	0.08	4.3	15.4	0.56	349	3.18	0.01	1.02
#133		1495	8.67	11.45	0.07	0.05	0.06	0.101	0.22	7.5	8.8	1.25	894	48.4	0.01	0.69
#134		548	3.14	5.51	<0.05	0.04	0.04	0.037	0.07	5.4	5.2	0.66	376	5.22	0.01	0.52
#135		200	3.04	7.00	<0.05	0.03	0.09	0.024	0.05	5.0	6.7	0.50	309	3.84	0.01	0.66
#136		380	3.36	10.15	<0.05	0.07	0.07	0.037	0.03	4.9	8.9	0.31	187	7.18	0.01	1.58
#137		798	2.77	7.68	<0.05	0.03	0.06	0.028	0.03	5.9	7.7	0.38	447	9.01	0.01	0.87
#138		3040	3.10	8.91	0.07	<0.02	0.02	0.035	0.08	21.1	10.2	0.65	494	11.25	0.01	0.79



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CERTIFICATE OF ANALYSIS VA17216276

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
#128		8.6	510	5.5	6.2	0.008	0.05	0.59	3.3	1.0	0.5	33.7	<0.01	0.09	0.3	0.115
#129		10.7	940	7.7	9.6	<0.001	0.02	0.39	3.1	0.2	0.8	27.1	0.01	0.07	0.6	0.106
#130		24.2	900	4.4	15.4	0.012	0.05	0.28	3.1	0.5	0.5	34.6	<0.01	0.10	0.2	0.090
#131		13.5	1000	3.8	14.3	<0.001	0.06	0.30	2.7	0.3	0.4	36.1	0.01	0.12	0.2	0.078
#132		15.0	950	9.2	17.0	<0.001	0.04	0.33	3.2	0.3	0.6	16.6	<0.01	0.03	0.4	0.064
#133		21.3	1190	6.7	21.2	0.001	0.05	0.41	17.3	2.3	0.8	8.1	0.01	0.16	2.0	0.117
#134		18.0	650	3.5	8.0	0.001	0.03	0.21	4.9	0.6	0.3	11.6	<0.01	0.10	0.5	0.074
#135		14.8	1020	3.0	12.5	<0.001	0.04	0.17	3.1	0.6	0.3	17.7	0.01	0.06	0.3	0.076
#136		9.4	580	7.0	6.7	0.001	0.02	0.23	3.1	0.5	0.6	8.9	0.02	0.06	0.8	0.106
#137		12.5	940	5.3	7.4	0.001	0.03	0.22	2.4	1.0	0.4	9.9	0.01	0.04	0.3	0.074
#138		14.8	680	4.7	11.4	0.018	0.03	0.26	5.3	0.9	0.5	26.1	<0.01	0.09	0.5	0.093

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



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CERTIFICATE OF ANALYSIS VA17216276

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
#128		0.06	2.80	71	0.86	18.70	89	0.6
#129		0.05	0.60	92	0.28	2.52	91	1.1
#130		0.07	5.84	84	0.13	14.65	265	0.6
#131		0.05	1.92	93	0.25	5.93	105	0.6
#132		0.08	0.83	78	0.16	3.02	198	0.8
#133		0.21	2.43	164	0.64	12.25	186	1.3
#134		0.05	2.92	73	0.48	7.16	114	1.1
#135		0.06	2.08	76	0.18	5.72	114	0.9
#136		0.05	1.43	72	0.22	3.98	62	3.0
#137		0.05	2.90	64	0.19	4.56	85	0.9
#138		0.06	10.20	65	0.17	26.1	96	0.5



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CERTIFICATE OF ANALYSIS VA17216276

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-22 ME-MS41 SCR-41 WEI-21



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 This copy reported on
 26-OCT-2017
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CERTIFICATE VA17222465

This report is for 33 Soil samples submitted to our lab in Vancouver, BC, Canada on 13-OCT-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

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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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CERTIFICATE OF ANALYSIS VA17222465

Sample Description	Method	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR																
#139		0.08	0.72	2.17	2.2	<0.02	<10	130	0.57	0.19	0.32	0.74	10.40	14.1	33	0.82
#140		0.12	0.58	2.52	2.3	<0.02	<10	180	0.41	0.24	0.29	0.51	7.23	13.5	26	1.18
#141		0.10	0.28	2.66	2.2	<0.02	<10	180	0.38	0.16	0.37	0.26	8.88	13.8	31	0.78
#142		0.12	0.24	2.21	2.4	<0.02	<10	220	0.39	0.23	0.26	0.19	6.96	12.1	19	1.20
#143		0.14	0.29	2.79	3.2	<0.02	<10	220	0.48	0.27	0.37	0.76	10.65	14.3	24	1.24
#144		0.14	0.30	2.68	3.3	<0.02	<10	290	0.49	0.31	0.48	1.31	10.35	14.6	23	1.16
#145		0.10	0.34	2.45	2.3	<0.02	<10	220	0.48	0.33	0.38	0.95	12.10	15.3	21	1.11
#146		0.10	0.39	2.44	2.4	<0.02	<10	140	0.44	0.22	0.25	0.70	12.85	15.4	27	1.03
#147		0.08	0.70	2.36	3.1	<0.02	<10	150	0.24	0.33	0.24	0.92	13.00	25.9	28	1.18
#148		0.06	1.84	2.94	4.8	<0.02	<10	110	0.39	0.46	0.14	0.89	18.65	18.3	23	1.11
#149		0.12	0.15	2.33	3.4	<0.02	<10	130	0.14	0.23	0.29	0.21	12.60	9.4	38	0.91
#150		0.08	0.82	2.49	3.2	<0.02	<10	280	0.67	0.30	0.62	0.65	22.2	22.1	26	1.20
#151		0.12	1.18	2.82	2.9	<0.02	<10	260	0.86	0.25	0.53	0.76	25.6	26.3	28	1.42
#152		0.10	0.44	2.57	5.1	<0.02	<10	200	0.42	0.28	0.34	0.68	9.19	13.0	24	1.25
#153		0.10	0.38	2.80	5.6	<0.02	<10	300	0.62	0.32	0.47	0.31	14.65	10.4	33	1.20
#154		0.10	0.80	3.03	10.6	<0.02	<10	380	0.83	0.36	0.50	1.00	45.7	22.5	30	1.73
#155		0.14	0.84	1.91	3.3	<0.02	<10	130	0.32	0.47	0.11	0.35	8.93	7.1	18	1.15
#156		0.10	0.35	2.71	4.1	<0.02	<10	170	0.45	0.24	0.28	0.19	14.10	11.2	29	1.02
#157		0.08	0.35	2.70	4.6	<0.02	<10	130	0.32	0.44	0.18	0.23	8.19	9.1	23	1.04
#158		0.10	0.36	2.72	5.5	<0.02	<10	100	0.38	0.37	0.22	0.17	7.28	6.2	18	1.16
#159		0.10	0.63	3.34	5.3	<0.02	<10	220	0.43	0.22	0.27	0.53	10.70	11.4	33	1.22
#160		0.02	0.49	2.67	6.7	<0.02	<10	100	0.40	0.15	0.19	0.19	8.91	7.5	30	0.76
#161		0.08	0.30	2.83	4.8	<0.02	<10	140	0.36	0.22	0.27	0.18	8.64	9.5	35	1.01
#162		0.06	0.31	2.39	3.6	<0.02	<10	210	0.36	0.18	0.30	0.18	11.05	9.7	22	1.06
#163		0.08	0.32	2.14	3.6	<0.02	<10	160	0.32	0.24	0.26	0.28	12.05	8.5	26	1.13
#164		0.10	0.51	2.86	4.6	<0.02	<10	80	0.43	0.30	0.09	0.12	9.45	6.6	20	1.14
#165		0.16	0.25	2.70	8.3	<0.02	<10	120	0.41	0.27	0.14	0.15	9.10	8.1	18	1.11
#166		0.16	0.31	2.00	7.2	<0.02	<10	140	0.29	0.33	0.21	0.37	7.01	9.0	25	1.15
#167		0.12	0.37	2.33	2.6	<0.02	<10	160	0.30	0.19	0.32	0.31	6.62	10.1	28	0.88
#168		0.08	0.43	2.21	3.2	<0.02	<10	300	0.46	0.21	0.43	0.42	13.65	12.2	31	1.12
#169		0.08	0.59	2.22	4.5	<0.02	<10	290	0.79	0.25	0.40	0.81	15.65	16.0	23	1.29
#170		0.16	0.76	2.62	4.8	<0.02	<10	450	1.32	0.26	0.67	1.72	24.1	19.4	23	1.56
#171		0.12	0.69	2.67	4.4	<0.02	<10	480	1.21	0.28	0.54	1.48	19.20	19.9	24	1.60



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CERTIFICATE OF ANALYSIS VA17222465

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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
#139		31.9	3.29	10.10	<0.05	0.04	0.05	0.024	0.05	4.6	10.5	0.62	455	1.34	0.01	1.39
#140		20.6	3.01	9.87	<0.05	0.04	0.05	0.024	0.06	3.4	14.5	0.60	535	0.86	0.02	1.24
#141		29.9	3.18	9.26	<0.05	0.03	0.04	0.022	0.07	3.2	9.7	0.72	620	0.94	0.02	1.02
#142		20.3	3.26	10.80	<0.05	0.03	0.03	0.019	0.10	3.0	12.8	0.60	1100	2.33	0.01	1.53
#143		34.8	3.36	10.35	<0.05	0.04	0.04	0.023	0.13	4.0	12.5	0.79	1400	1.27	0.01	1.35
#144		48.1	3.47	10.55	<0.05	0.03	0.04	0.031	0.10	4.1	11.6	0.76	1120	2.72	0.02	1.16
#145		67.5	3.68	11.35	0.05	0.03	0.04	0.035	0.11	6.9	11.2	0.61	1510	5.41	0.01	1.44
#146		66.5	3.51	10.30	<0.05	0.03	0.05	0.032	0.08	8.1	7.9	0.63	830	3.82	0.01	1.24
#147		195.5	4.77	14.40	0.05	0.04	0.05	0.037	0.09	8.1	8.2	0.59	2390	6.19	0.02	1.57
#148		407	4.45	13.40	0.05	0.04	0.08	0.046	0.09	12.1	6.4	0.36	1820	7.12	0.01	1.20
#149		68.5	3.12	9.87	0.06	0.03	0.03	0.020	0.10	5.7	9.1	0.87	375	2.73	0.02	1.06
#150		364	4.05	10.90	0.06	0.03	0.07	0.031	0.11	14.9	10.6	0.64	1450	9.78	0.02	1.07
#151		788	3.72	11.05	0.08	0.04	0.06	0.032	0.08	22.5	10.5	0.61	1880	13.50	0.02	1.19
#152		223	4.46	12.80	<0.05	0.05	0.05	0.034	0.08	4.5	14.5	0.59	549	8.52	0.01	1.98
#153		721	3.85	11.70	0.08	0.04	0.07	0.037	0.07	18.8	11.8	0.73	449	23.1	0.01	1.40
#154		2010	4.45	11.15	0.13	0.05	0.09	0.045	0.09	33.5	13.5	0.68	3710	36.7	0.01	1.07
#155		70.2	4.21	15.30	<0.05	0.06	0.05	0.037	0.05	4.8	9.3	0.30	323	17.45	0.01	2.83
#156		208	3.48	10.80	<0.05	0.04	0.06	0.031	0.05	6.6	10.8	0.61	519	7.30	0.01	1.51
#157		77.2	3.92	15.45	<0.05	0.06	0.06	0.027	0.06	3.7	10.8	0.55	438	6.06	0.01	2.44
#158		104.0	4.06	13.10	<0.05	0.06	0.08	0.038	0.05	4.1	12.0	0.30	478	8.23	0.01	2.27
#159		136.0	4.42	12.90	<0.05	0.05	0.05	0.037	0.06	4.6	15.5	0.72	320	5.00	0.02	1.84
#160		437	3.25	7.51	<0.05	0.04	0.08	0.033	0.07	4.4	7.8	0.57	250	4.55	0.01	1.04
#161		131.0	3.60	12.55	<0.05	0.05	0.04	0.031	0.05	4.2	12.4	0.59	280	3.20	0.01	1.60
#162		200	3.33	11.05	<0.05	0.03	0.04	0.024	0.06	4.8	11.1	0.61	271	3.86	0.01	1.45
#163		255	3.62	12.15	<0.05	0.04	0.03	0.031	0.04	4.7	13.8	0.51	255	8.88	0.01	1.75
#164		206	3.11	10.95	<0.05	0.10	0.06	0.030	0.03	4.4	10.8	0.41	203	4.25	0.01	1.70
#165		206	3.57	10.75	<0.05	0.10	0.04	0.032	0.04	4.2	11.0	0.41	216	7.87	0.01	1.62
#166		139.0	3.93	12.00	<0.05	0.04	0.03	0.030	0.05	3.5	14.5	0.57	268	8.06	0.01	1.67
#167		71.2	3.71	11.70	<0.05	0.04	0.03	0.026	0.05	3.2	11.4	0.62	308	4.59	0.02	1.55
#168		446	3.47	10.25	0.06	0.03	0.04	0.026	0.04	13.6	12.6	0.56	453	14.50	0.01	1.16
#169		1500	3.30	9.74	0.07	0.03	0.05	0.031	0.04	14.4	12.1	0.47	1050	8.32	0.01	1.25
#170		3750	3.47	8.85	0.15	0.05	0.04	0.033	0.06	42.5	13.9	0.54	1660	7.37	0.01	1.32
#171		2850	3.68	10.65	0.10	0.04	0.05	0.035	0.05	29.3	14.1	0.53	1680	7.25	0.01	1.53



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CERTIFICATE OF ANALYSIS VA17222465

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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
#139		19.7	400	11.6	9.5	<0.001	0.02	0.13	3.7	0.2	0.7	29.8	<0.01	0.15	0.7	0.150
#140		16.6	1680	8.6	11.5	<0.001	0.03	0.12	2.9	0.3	0.7	26.1	<0.01	0.07	0.5	0.128
#141		18.7	680	6.0	9.0	<0.001	0.03	0.11	3.4	0.3	0.6	30.1	<0.01	0.06	0.4	0.119
#142		12.0	790	9.6	18.3	<0.001	0.03	0.11	2.7	0.2	0.7	24.6	<0.01	0.09	0.4	0.187
#143		16.2	1230	8.7	19.4	<0.001	0.02	0.11	3.6	0.3	0.6	25.8	<0.01	0.11	0.6	0.177
#144		15.5	1240	8.5	16.7	<0.001	0.05	0.16	3.0	0.3	0.6	47.0	<0.01	0.11	0.3	0.134
#145		12.6	930	8.1	17.1	<0.001	0.06	0.16	2.9	0.4	0.8	42.4	<0.01	0.07	0.3	0.146
#146		16.1	950	7.0	12.5	<0.001	0.09	0.12	2.8	0.8	0.6	23.0	<0.01	0.06	0.2	0.110
#147		14.9	920	10.0	17.8	<0.001	0.07	0.15	3.0	1.6	0.7	26.9	<0.01	0.08	0.3	0.144
#148		10.7	2590	10.1	18.7	0.001	0.09	0.29	2.9	1.8	0.6	15.7	<0.01	0.10	0.3	0.090
#149		21.7	410	6.4	9.7	0.002	0.05	0.13	3.7	2.1	1.0	27.5	<0.01	0.10	0.3	0.137
#150		15.9	950	10.6	18.5	0.012	0.07	0.21	3.6	1.6	0.7	71.2	<0.01	0.09	0.3	0.108
#151		16.9	1170	9.2	18.3	0.016	0.08	0.16	3.7	1.9	1.2	48.5	<0.01	0.06	0.3	0.106
#152		14.1	490	11.2	16.8	<0.001	0.04	0.15	3.3	0.4	0.8	28.3	<0.01	0.16	0.5	0.187
#153		20.2	380	9.0	9.8	0.005	0.04	0.13	5.2	1.2	0.8	46.2	<0.01	0.09	0.6	0.146
#154		21.5	1060	10.0	14.8	0.015	0.07	0.17	6.1	1.4	0.8	57.5	<0.01	0.11	0.5	0.101
#155		8.2	560	11.3	9.7	<0.001	0.03	0.14	2.7	0.4	1.4	12.2	<0.01	0.09	0.8	0.208
#156		18.2	670	7.4	8.4	<0.001	0.04	0.14	3.7	0.5	0.9	26.1	0.01	0.05	0.7	0.133
#157		13.7	1150	10.0	8.5	<0.001	0.03	0.17	3.4	0.3	1.1	18.0	0.01	0.09	0.8	0.208
#158		8.4	1480	9.4	10.1	<0.001	0.05	0.14	2.6	0.5	1.1	19.2	0.03	0.06	0.8	0.138
#159		19.2	460	7.7	9.1	<0.001	0.03	0.14	4.5	0.4	0.8	23.6	<0.01	0.05	0.7	0.162
#160		18.0	1020	4.3	5.7	<0.001	0.02	0.09	3.8	0.6	0.5	9.1	0.01	0.05	0.9	0.092
#161		21.6	480	8.0	7.8	<0.001	0.02	0.17	4.1	0.2	0.9	28.4	<0.01	0.05	1.0	0.121
#162		15.6	350	6.4	8.9	<0.001	0.02	0.12	4.0	0.4	0.6	27.0	<0.01	0.04	0.9	0.114
#163		15.5	280	8.1	9.0	<0.001	0.02	0.15	3.7	0.2	0.8	24.5	<0.01	0.05	0.9	0.138
#164		11.8	600	7.5	8.2	<0.001	0.02	0.15	3.7	0.4	0.8	8.6	0.04	0.06	1.3	0.112
#165		11.6	570	7.3	8.4	<0.001	0.02	0.15	3.4	0.4	0.7	11.8	0.03	0.05	1.5	0.109
#166		14.4	410	7.5	12.4	<0.001	0.02	0.12	3.5	0.3	0.8	17.5	<0.01	0.08	0.8	0.149
#167		15.9	340	6.7	9.4	<0.001	0.02	0.11	3.7	0.2	0.7	23.1	<0.01	0.04	0.6	0.156
#168		18.6	510	6.3	7.4	0.014	0.04	0.11	3.6	1.2	1.0	39.2	<0.01	0.04	0.3	0.108
#169		16.5	680	7.5	10.0	0.010	0.04	0.14	3.4	1.2	0.7	32.3	<0.01	0.04	0.4	0.111
#170		21.5	1050	7.6	12.7	0.005	0.04	0.15	6.3	1.5	1.1	59.2	0.01	0.05	0.7	0.118
#171		19.4	890	9.0	12.5	0.006	0.05	0.16	4.8	1.6	0.8	46.8	0.01	0.05	0.5	0.132



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CERTIFICATE OF ANALYSIS VA17222465

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5
#139		0.05	0.53	76	0.45	5.72	322	1.8
#140		0.05	0.40	60	0.26	2.46	217	1.8
#141		0.04	0.35	74	0.16	2.65	93	1.1
#142		0.07	0.38	71	0.22	2.25	116	1.3
#143		0.11	0.56	71	0.28	3.53	241	1.8
#144		0.06	0.64	69	0.26	3.26	258	1.1
#145		0.07	1.23	67	0.19	6.72	221	1.2
#146		0.05	1.74	67	0.16	6.80	152	1.1
#147		0.06	1.89	81	0.23	7.10	239	1.6
#148		0.07	4.09	62	0.31	8.80	166	1.6
#149		0.07	0.97	70	0.20	5.61	99	1.1
#150		0.08	3.02	69	0.21	12.35	151	1.0
#151		0.10	4.76	62	0.17	17.10	171	1.3
#152		0.06	0.77	86	0.33	3.77	210	2.0
#153		0.07	2.39	83	0.23	13.75	125	1.5
#154		0.18	5.46	68	0.17	34.1	146	1.6
#155		0.06	0.59	86	0.34	2.54	105	3.2
#156		0.07	1.12	73	0.20	5.10	81	2.0
#157		0.06	0.60	86	0.23	2.14	142	3.1
#158		0.07	0.54	69	0.29	1.86	88	3.2
#159		0.05	0.64	94	0.17	3.78	119	2.6
#160		0.04	0.79	56	0.23	4.26	61	1.5
#161		0.04	0.56	82	0.17	2.54	77	2.5
#162		0.04	0.84	76	0.16	4.19	61	1.3
#163		0.06	0.72	89	0.19	3.01	68	2.0
#164		0.07	0.69	66	0.29	3.19	57	4.8
#165		0.06	0.68	73	0.22	3.23	80	4.8
#166		0.04	0.41	83	0.29	2.42	162	1.7
#167		0.04	0.39	89	0.17	2.33	98	1.7
#168		0.05	3.23	70	0.13	15.40	66	1.3
#169		0.08	5.42	59	0.30	15.70	140	1.3
#170		0.10	14.80	56	0.16	43.1	183	1.8
#171		0.09	10.45	60	0.15	28.5	194	1.8



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CERTIFICATE OF ANALYSIS VA17222465

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-22 ME-MS41 SCR-41 WEI-21



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CERTIFICATE VA17237547

This report is for 23 Soil samples submitted to our lab in Vancouver, BC, Canada on 31-OCT-2017.
 The following have access to data associated with this certificate:
 BRUCE BRIED

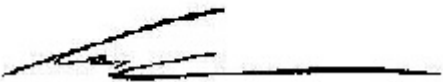
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS41	Ultra Trace Aqua Regia ICP-MS

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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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CERTIFICATE OF ANALYSIS VA17237547

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
#171		Not Recvd														
#172		0.10	0.28	2.19	2.1	<0.02	<10	140	0.32	0.12	0.28	0.18	12.10	8.1	29	0.67
#173		0.18	0.24	2.62	3.9	<0.02	<10	110	0.36	0.23	0.20	0.22	7.39	6.8	19	1.12
#174		0.22	0.25	2.40	4.0	<0.02	<10	70	0.29	0.21	0.13	0.10	7.37	9.1	20	0.79
#175		0.22	0.30	1.84	5.0	<0.02	<10	110	0.27	0.15	0.24	0.15	11.00	8.6	18	0.72
#176		0.18	0.15	1.79	5.6	<0.02	<10	140	0.23	0.25	0.33	0.30	7.62	8.5	21	0.87
#177		0.18	0.23	1.85	4.2	<0.02	<10	140	0.34	0.31	0.34	0.17	7.70	9.6	19	0.78
#178		0.20	0.27	3.52	5.8	<0.02	<10	60	0.35	0.30	0.15	0.11	6.43	7.4	21	0.97
#179		0.14	0.20	2.16	4.1	<0.02	<10	70	0.23	0.26	0.09	0.24	5.81	5.9	18	0.80
#180		0.26	0.11	2.60	4.5	<0.02	<10	60	0.25	0.62	0.17	0.09	7.27	7.8	21	0.45
#181		0.16	0.20	2.90	5.0	<0.02	<10	60	0.36	0.22	0.10	0.13	7.65	8.0	21	0.75
#182		0.12	0.13	1.92	3.2	<0.02	<10	40	0.22	0.19	0.09	0.11	4.79	5.5	17	0.50
#183		0.18	0.24	2.54	4.6	<0.02	<10	80	0.33	0.29	0.20	0.24	5.98	9.2	25	0.65
#184		0.16	0.15	2.08	4.0	<0.02	<10	80	0.24	0.24	0.19	0.19	6.24	6.7	20	0.69
#185		0.14	0.28	2.26	4.3	<0.02	<10	80	0.28	0.38	0.14	0.35	6.05	5.7	20	1.18
#186		0.18	0.17	2.44	3.3	<0.02	<10	50	0.20	0.17	0.10	0.11	5.04	7.2	21	0.72
#187		0.12	0.24	1.21	2.4	<0.02	<10	70	0.17	0.25	0.16	0.25	8.33	6.1	17	0.55
#188		0.16	0.33	2.68	2.5	<0.02	<10	110	0.29	0.17	0.23	0.30	11.05	9.4	26	0.81
#189		0.20	0.20	2.24	2.3	<0.02	<10	310	0.32	0.14	0.34	0.21	15.90	10.3	28	0.70
#190		0.12	0.59	2.48	3.0	<0.02	<10	130	0.37	0.18	0.28	0.40	13.15	8.7	24	0.70
#191		0.18	0.31	2.07	2.1	<0.02	<10	170	0.20	0.08	0.37	0.40	13.15	6.8	25	0.53
#192		0.18	0.59	2.49	6.8	<0.02	<10	330	0.53	0.18	0.54	0.57	17.25	13.2	27	1.02
#193		0.12	0.59	1.82	4.0	<0.02	<10	210	0.27	0.18	0.38	0.34	11.05	9.5	26	0.70



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CERTIFICATE OF ANALYSIS VA17237547

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	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
LOR		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
#171																
#172		140.5	2.92	7.62	<0.05	0.04	0.04	0.020	0.04	6.8	7.6	0.49	320	8.37	0.01	1.08
#173		124.0	3.54	9.52	<0.05	0.04	0.04	0.029	0.03	3.8	8.9	0.33	200	9.22	0.01	1.49
#174		123.5	3.29	6.10	<0.05	0.06	0.05	0.022	0.04	3.4	5.5	0.41	204	3.37	0.01	0.86
#175		156.0	2.77	6.40	<0.05	0.02	0.03	0.022	0.03	4.5	10.5	0.35	178	10.85	0.01	0.80
#176		125.0	4.17	12.70	<0.05	0.03	0.02	0.026	0.05	3.7	10.5	0.45	236	9.04	0.01	1.64
#177		113.5	4.16	8.36	<0.05	0.02	0.03	0.027	0.04	5.6	7.8	0.50	251	11.40	0.01	1.01
#178		238	3.99	8.00	<0.05	0.08	0.08	0.033	0.04	3.6	7.5	0.37	195	5.21	0.01	1.26
#179		55.6	4.01	10.00	<0.05	0.04	0.05	0.024	0.03	3.1	6.8	0.26	143	10.65	0.01	1.55
#180		98.9	3.49	4.79	<0.05	0.04	0.05	0.022	0.04	2.9	3.8	0.36	183	3.52	0.01	0.58
#181		86.5	3.31	7.29	<0.05	0.08	0.07	0.025	0.04	3.4	6.5	0.33	211	3.33	<0.01	1.11
#182		44.5	3.03	6.99	<0.05	0.04	0.04	0.020	0.03	2.4	5.3	0.19	197	2.24	<0.01	0.94
#183		120.5	4.12	7.17	<0.05	0.02	0.04	0.031	0.05	3.0	8.8	0.58	244	4.05	0.01	0.88
#184		89.7	3.23	8.22	<0.05	0.02	0.04	0.021	0.04	2.9	7.2	0.39	216	4.93	0.01	1.19
#185		69.1	4.60	14.60	<0.05	0.05	0.09	0.029	0.06	3.1	7.8	0.30	208	3.24	0.01	2.44
#186		45.4	3.19	6.35	<0.05	0.05	0.04	0.027	0.03	2.6	5.9	0.31	167	2.25	0.01	0.95
#187		47.9	2.93	7.52	<0.05	0.02	0.03	0.019	0.03	3.7	4.6	0.26	503	3.77	0.01	0.87
#188		96.1	2.99	7.78	<0.05	0.03	0.06	0.026	0.04	4.1	8.5	0.50	485	2.71	0.01	1.07
#189		289	2.80	5.91	<0.05	0.02	0.04	0.018	0.05	11.6	8.1	0.69	511	7.84	0.02	0.48
#190		89.3	3.15	7.86	<0.05	0.03	0.08	0.025	0.04	5.4	8.1	0.43	304	6.15	0.01	1.15
#191		174.5	2.50	5.65	<0.05	0.02	0.06	0.016	0.04	6.1	6.2	0.47	212	2.28	0.01	0.75
#192		2350	3.08	6.92	0.09	0.02	0.03	0.023	0.08	20.8	10.1	0.76	729	5.96	0.02	0.73
#193		169.0	3.45	8.44	<0.05	0.02	0.06	0.025	0.04	6.1	6.7	0.53	688	5.88	0.01	0.85



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CERTIFICATE OF ANALYSIS VA17237547

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41		
	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	%	
LOR		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	
#171																	
#172		14.3	340	4.8	5.4	0.001	0.01	0.12	2.9	0.3	0.4	23.0	<0.01	0.03	0.4	0.121	
#173		8.4	680	5.4	8.2	0.001	0.02	0.12	2.4	0.4	0.5	20.2	0.03	0.05	0.5	0.114	
#174		9.7	830	3.3	9.0	<0.001	0.02	0.11	3.2	0.4	0.3	15.0	0.01	0.06	1.1	0.089	
#175		10.3	450	6.5	6.9	0.001	0.01	0.09	2.3	0.4	0.3	21.8	0.01	0.04	0.6	0.082	
#176		9.4	450	5.4	10.4	<0.001	0.02	0.12	2.9	<0.2	0.5	29.5	<0.01	0.08	0.7	0.145	
#177		8.7	690	4.4	7.3	0.001	0.03	0.11	3.0	0.5	0.4	27.6	0.01	0.06	0.6	0.107	
#178		8.2	1560	5.0	6.5	<0.001	0.03	0.19	2.9	0.6	0.4	14.6	0.02	0.08	0.9	0.097	
#179		6.0	410	5.4	5.7	<0.001	0.01	0.18	2.3	0.4	0.5	10.9	0.02	0.04	0.8	0.125	
#180		8.4	1230	3.3	3.6	<0.001	0.01	0.10	3.0	0.3	0.2	14.9	0.01	0.05	1.3	0.065	
#181		8.8	1310	4.5	6.9	<0.001	0.02	0.13	3.0	0.5	0.4	12.6	0.02	0.05	1.2	0.091	
#182		5.0	1080	4.6	4.3	<0.001	0.01	0.11	1.9	<0.2	0.4	8.7	0.02	0.03	0.9	0.073	
#183		12.5	900	3.8	6.8	<0.001	0.02	0.10	3.6	<0.2	0.3	15.4	<0.01	0.08	0.9	0.098	
#184		9.4	1010	5.1	6.3	<0.001	0.01	0.11	2.7	<0.2	0.5	19.3	0.01	0.05	0.7	0.112	
#185		6.6	3550	9.5	13.0	<0.001	0.02	0.15	2.5	0.5	0.9	14.0	0.02	0.07	1.0	0.177	
#186		8.0	2030	3.5	7.0	<0.001	0.01	0.09	2.3	<0.2	0.3	10.4	0.02	0.03	1.1	0.079	
#187		5.8	1060	4.6	5.8	<0.001	0.01	0.09	1.7	<0.2	0.5	13.3	<0.01	0.05	0.4	0.088	
#188		13.1	1140	5.4	7.1	<0.001	0.01	0.09	3.3	0.2	0.5	18.6	0.01	0.03	0.6	0.121	
#189		15.4	460	4.4	5.5	0.006	0.02	0.09	3.5	0.5	0.3	35.2	<0.01	0.04	0.3	0.081	
#190		11.3	530	8.7	6.6	<0.001	0.02	0.11	2.8	0.3	0.5	32.6	0.01	0.07	0.3	0.124	
#191		11.3	460	3.3	3.9	0.001	0.02	0.10	2.6	0.3	0.3	34.6	0.01	0.01	0.3	0.097	
#192		21.0	700	12.3	10.7	0.004	0.02	0.13	4.9	0.8	0.4	51.3	<0.01	0.19	0.4	0.102	
#193		11.6	480	7.6	6.9	<0.001	0.03	0.10	2.4	0.3	0.4	39.0	<0.01	0.11	0.2	0.114	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 Finalized Date: 27-NOV-2017
 Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17237547

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	TI	U	V	W	Y	Zn
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.05	1	0.05	0.05	2
#171							
#172		0.03	1.02	70	0.12	5.61	55
#173		0.03	0.70	72	0.24	3.02	91
#174		0.04	0.65	76	1.39	2.88	53
#175		0.04	0.57	61	0.17	3.37	51
#176		0.04	0.42	101	0.22	2.59	110
#177		0.04	0.89	85	0.47	5.21	78
#178		0.05	0.71	77	0.31	2.40	53
#179		0.03	0.51	87	0.25	1.80	57
#180		0.03	0.54	74	0.29	2.72	34
#181		0.04	1.00	76	0.34	2.37	57
#182		0.02	0.33	72	0.22	1.37	38
#183		0.02	0.61	89	0.27	2.48	109
#184		0.04	0.42	79	0.26	1.86	71
#185		0.06	2.18	94	0.35	1.76	111
#186		0.03	0.34	73	0.20	1.51	63
#187		0.04	0.47	68	0.19	1.78	67
#188		0.05	0.75	67	0.13	3.28	135
#189		0.05	2.50	61	0.11	11.60	76
#190		0.04	0.95	69	0.23	5.12	126
#191		0.03	0.76	63	0.09	5.14	73
#192		0.07	4.39	63	0.32	19.60	139
#193		0.03	0.94	71	0.20	4.97	115



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Account: BRIBRU

CERTIFICATE OF ANALYSIS VA17237547

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
LOG-22 ME-MS41 SCR-41 WEI-21

APPENDIX D

**1976 CONCLUSIONS AND
RECOMMENDATION FOR MINERAL
EXPLORATION ON SPIUS, BASED
UPON WORK DONE IN THE 1960'S
AND 1970'S**

BY:

**CANADIAN OCCIDENTAL
PETROLEUM LTD., MINERALS
DIVISION**

CONCLUSIONS

Although no major economic mineralization or high density vein stockworks were found, the very low percentage of outcrop in the central part of the area does not rule out the occurrence of either. The occurrence of a large, high value Cu soil geochemical anomaly over an area of strong sericitization is good evidence for a hydrothermal Cu deposit on the property. Brascan drilled 7 diamond drill holes on the property in 1971 but only one of them was within the 500 ppm Cu anomaly outlined by Orequest; the rest were concentrated on the quartz-feldspar porphyry and the two I.P. anomalies outlined by the Arrow Inter-American Corp. 1970 survey. Orequest's 1968 diamond drill holes were also concentrated in the northern part of the property, within the main molybdenum anomaly (Brascan compilation - 1974). The main copper anomaly is coincident with a magnetic high outlined by Arrow Inter-American in 1971. This central part of the area has very strong pyrite concentrations, however, and must have had large amounts of sulphur available during hydrothermal alteration.

Further work should be concentrated in this area as relatively little work has been done in the area overlying the main Cu anomaly.

Respectfully submitted,

A circular professional seal for a Registered Professional Engineer in the Province of Ontario. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top inner edge and "PROVINCE OF ONTARIO" around the bottom inner edge. In the center, the name "R. H. WALLIS" is printed above the name "George". A handwritten signature, "R. H. Wallis for R. George B.Sc.", is written across the seal.

R. H. WALLIS
George

TORONTO

September 2nd, 1976