

Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical, Prospecting

TOTAL COST: 51,218.14

AUTHOR(S): Alicia Carpenter, Craig A. Lynes

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): No Surface Disturbance

YEAR OF WORK: 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5686134

PROPERTY NAME: Lode Star

CLAIM NAME(S) (on which the work was done): Lode Star 1036571, KL-Rose 1039081, Monashee Star 1039166, Gold Star 1044860

COMMODITIES SOUGHT: Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 082LSE021, 082LSE040

MINING DIVISION: Vernon

NTS/BCGS: 082L 01/W 082L.019

LATITUDE: 50 ° 07 '48 " LONGITUDE: 118 ° 19 '03 " (at centre of work)

OWNER(S):

1) Craig A. Lynes

2)

MAILING ADDRESS:

Box 131, Grindrod, B.C. V0E 1Y0

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

1) Cayenne Capital Corp.

2)

MAILING ADDRESS:

200-551 Howe Street

Vancouver, BC V6C 2C2

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

Paleozoic Harper Ranch Group, Upper Triassic Slocan Group, Upper Triassic Nicola Group, northwest trending,

tuffaceous mudstone, chert, limestone, arc derived sandstone, conglomerate. north trending steeply west dipping Bevan Fault,

Jurassic Nelson batholith, Cretaceous Whatshan batholith, Quartz-carbonate-pyrite-arsenopyrite-Gold veining, feldspar porphyry

hosted mineralization, west-north west trending gold anomalies.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 5279, 10530, 10871, 11645, 11752,

12338, 13040, 13545, 18079, 20445, 27421, 27419, 27705, 28197, 28555, 36024, 36786

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 1	_____	1036571	235.98
Silt 17	_____	1036571	4011.17
Rock 90	_____	1036571, 1039081,1039166, 1044860	21,237.75
Other 2 - Pan Concentrate	_____	1036571	2,123.78
DRILLING (total metres; number of holes, size)			
Core	_____	_____	_____
Non-core	_____	_____	_____
RELATED TECHNICAL			
Sampling/assaying	_____	_____	_____
Petrographic	_____	_____	_____
Mineralographic	_____	_____	_____
Metallurgic	_____	_____	_____
PROSPECTING (scale, area) 850 ha			23,609.07
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:	51,218.14

**2017 GEOCHEMICAL AND PROSPECTING ASSESSMENT REPORT
ON THE LODE STAR PROPERTY**

Event Number: 5686134

Claims Worked On: 1036571, 1039081, 1039166, 1044860

Located in the
Vernon Mining Division
British Columbia, Canada

NTS Map Sheet 082L 01/W
BCGS Map Sheet 082L.019
50° 07' 48" North Latitude
118° 19' 03" West Longitude

Prepared for:
Cayenne Capital Corp
200-551 Howe Street,
Vancouver BC V6C 2C2

Prepared by

Alicia Carpenter, P.Ge., B.Sc.
Consulting Geologist
And
Craig A. Lynes
Prospector

April, 2018

TABLE OF CONTENTS

1.0	INTRODUCTION.....	4
2.0	LOCATION, ACCESS & PHYSIOGRAPHY	6
3.0	LAND TENURE AND CLAIM STATUS.....	7
4.0	EXPLORATION HISTORY.....	10
5.0	2017 SUMMARY OF WORK	13
6.0	GEOLOGY.....	15
	6.1 REGIONAL GEOLOGY	15
	6.2 PROPERTY GEOLOGY.....	17
	6.2.1 Lode Star Property Lithology Legend	19
7.0	2017 EXPLORATION PROGRAM.....	20
	7.1 INTRODUCTION.....	20
	7.2 PROSPECTING.....	21
	7.3 SAMPLE COLLECTION AND ANALYSIS	21
	7.4 2017 ROCK SAMPLING RESULTS	22
	7.5 2017 STREAM SEDIMENT SAMPLING RESULTS.....	27
	7.6 SOIL SAMPLE RESULTS	27
	7.7 PAN CONCENTRATE SAMPLING	30
8.0	DISCUSSION AND CONCLUSIONS	32

LIST OF FIGURES

Figure 1: General Location Map	5
Figure 2: Claim Map (Placeholder for PDF)	8
Figure 3: 2017 Sampling Locations (Placeholder for PDF)	9
Figure 4: Regional Geology of the Lode Star Property	1
Figure 5: 2017 Lode Star Rock Geochemistry Results (East 1 of 2) (1:10,000)	25
Figure 6: 2017 Lode Star Rock Geochemistry Results (West 2 of 2) (1:10,000)	26
Figure 7: 2017 Lode Star Stream Sediment Sampling Results (1:10,000)	28
Figure 8: 2017 Lode Star Soil Sampling Results (1:10,000)	29
Figure 9: 2017 Lode Star Pan Concentrate Sampling Results (1:10,000)	31

LIST OF TABLES

Table 1: Lode Star Property Claims	7
Table 2: Significant Assay Results of 2017 Rock Sampling - Lode Star Claim	23
Table 3: Significant Assay Results of 2017 Rock Sampling – Monashee Star Claim	23
Table 4: Assay Results of 2017 Pan Concentrate Samples	30

APPENDICES

APPENDIX I	References
APPENDIX II	Statement of Expenditures
APPENDIX III	Statement of Qualification
APPENDIX IV	Samples Details Tables
APPENDIX V	Assay Certificates
APPENDIX VI	ALS Analytical Procedure Method Descriptions

1.0 INTRODUCTION

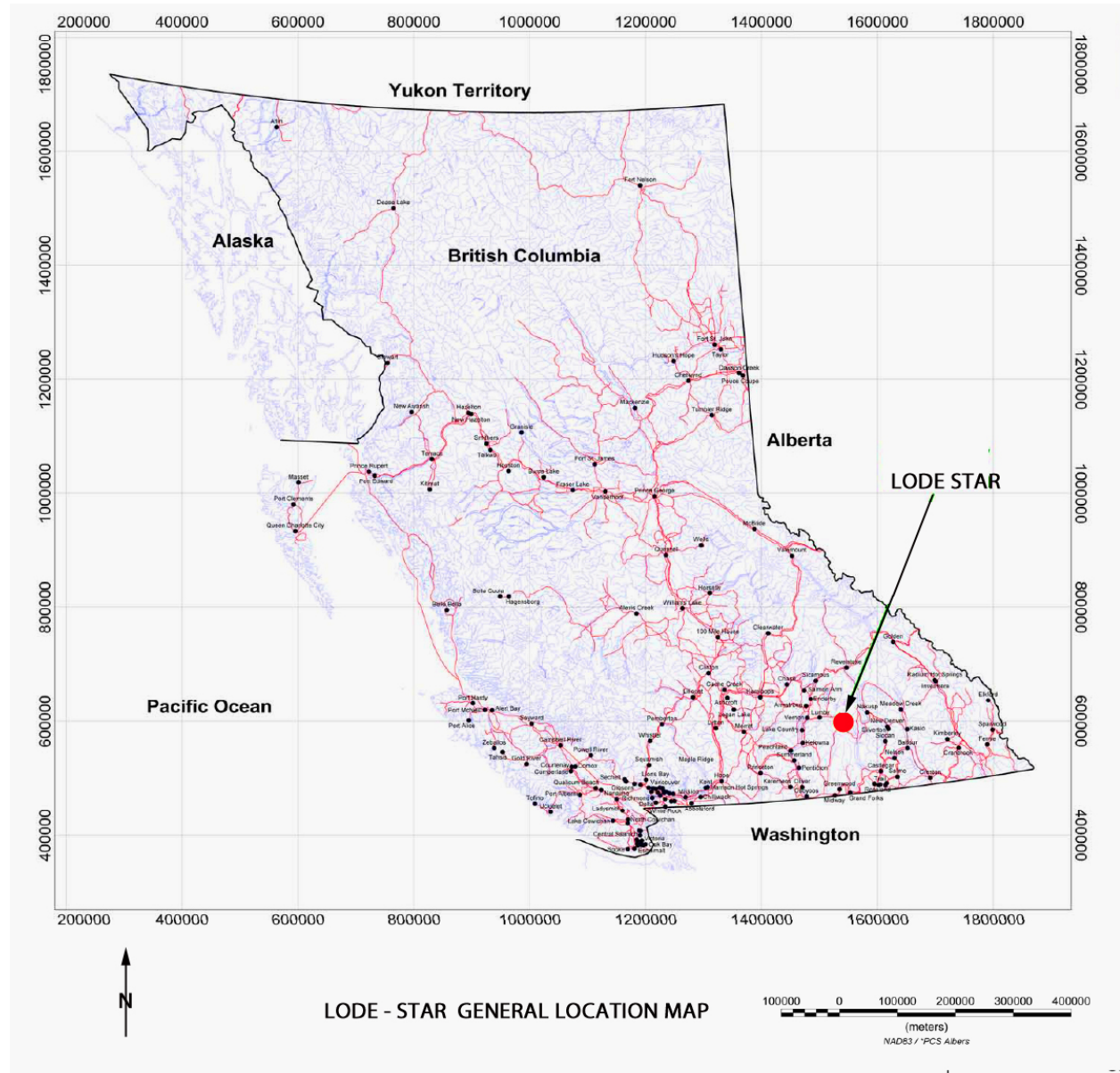
The Lode Star property is in the Whatshan Range of the Monashee Mountains of southern British Columbia. The project area is 70 kilometers east-southeast of Vernon, and 27 kilometers (km) northwest of the Needles ferry on Arrow Lake.

The Lode Star property consists of 5 mineral claims totaling 1015.15 hectares owned by Craig A. Lynes on behalf of Rich River Exploration Ltd. (Rich River). Cayenne Capital Corp. entered into an option agreement with Rich River in October 2015, to acquire a 100% interest in the Lode Star property. The 2017 field program on the Lode Star property was completed under the direction of Cayenne Capital corp., with Rich River as the primary contractor.

The property is accessed via the Keefer Lake Forest Service Road (Keefer Lake FSR), which leaves Provincial Highway 6 approximately 32 kilometers west of the Needles Ferry. The property is 24 kilometers up the Keefer Lake FSR. Access into the claim blocks is excellent due to an array of well-maintained logging roads. Although four-wheel drive is recommended, most of the roads are accessible with a two-wheel drive vehicle.

This report documents the prospecting and sampling program completed between April 17, 2017 and August 5, 2017 on the Lode Star property. The work on the Lode Star claims was conducted on mineral claims 1036571, 1039081, 1039166 and 1044860.

Figure 1: General Location Map



2.0 LOCATION, ACCESS & PHYSIOGRAPHY

The Lode Star property is in the Whatshan Range of the Monashee Mountains of southern British Columbia. The project area is 70km east-southeast of Vernon, and 27km northwest of the Needles ferry on Arrow Lake (See Fig. 1).

Access into the claim blocks is excellent due to an array of well-maintained logging roads operated by Pope and Talbot to the east, and Tolko Industries to the west. The property is accessed via the Keefer Lake FSR, which leaves Provincial Highway 6 approximately 32 kilometers west of the Needles Ferry. The property is 24 kilometers up Keefer Lake FSR. Although four-wheel drive is recommended, the majority of the roads are accessible with two-wheel drive.

The City of Vernon has good accommodation and logistical support including a source of supplies, helicopters, and a hospital. Vernon has a population of 58,540 and equipment and supplies needed to support mine development are available.

Elevations on the Lode Star property range from 1,350m to 1,900m. The property hosts a forest comprised mostly of spruce, pine and fir trees which are in various states of growth. A north trending ridge crest leads to the highest point at the north end of the property. Most of the property has moderate slopes of 10- 30° but flattens to less than 10° below 1,420m elevation. The lowest elevation of the Lode Star property is 1,350m, located near Holmes Lake, which is approximately 1km long. Much of the property has been timber harvested by Pope and Talbot.

The Lode Star property experiences cool to cold moist winters, and warm to hot dry summers. Winter snow falls on the property area by November and stays on the ground intermittently until April. Weather data for Kelowna, 75km west-southwest of the property at an elevation of 344m, lists annual average temperatures of 4 °C as the low, and 15 °C as the high. Average total precipitation for Kelowna is 34mm.

Although the till cover is generally thin, most of the rock outcrops are in road cuts, creeks and ridge crests. Till thickness increases (greater than 2 meters depth), in lower elevation portions of the property, where the average slope gradient is below 10°.

3.0 LAND TENURE AND CLAIM STATUS

The Lode Star property consists of five mineral claims totaling 1015.15 hectares. The claims are listed in Table 1 and displayed on a claim map in Figure 2. This report covers work completed on the Lode Star property between April 17, 2017 and August 5, 2017.

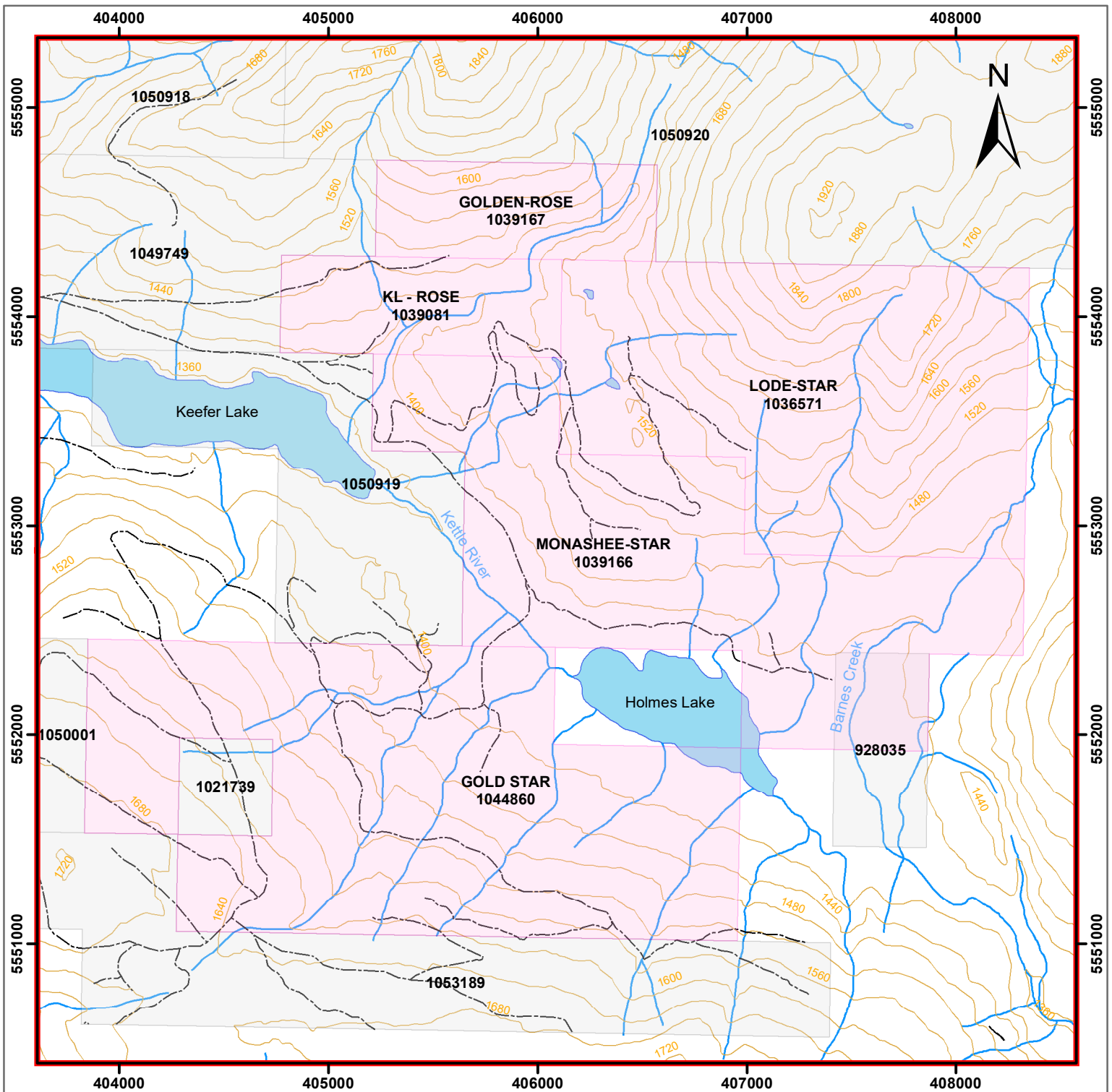
The claims are currently owned by Craig A. Lynes on Behalf of his Company Rich River Exploration Ltd. (“Rich River”). The project is operated by Cayenne Capital Corp. which entered into an option agreement with Rich River in October 2015, to acquire a 100% interest in the Lode Star property.

The 2017 field work conducted on the Lode Star claims consisted of prospecting, and 110 samples collected for geochemical Inductively Coupled Plasma (ICP) and Au analyses of rock, soil, silt and pan concentrate samples. The work was conducted within mineral claims 1036571, 1039081, 1039166 and 1044860 (Figure 3) and applied to the five Lode Star property claims listed below in Table 1, held by Craig A. Lynes, Under Event Number 5643634. Expiry dates are to be advanced to September 01, 2028, subject to government approval of this assessment report.

Table 1: Lode Star Property Claims

Title Number	Claim Name	Owner	Title Type	Issue Date	Good To Date*	Area (ha)
1036571	LODE-STAR	116233 (100%)	Mineral Claim	2015/JUN/05	2028/SEP/01	269.28
1039081	KL - ROSE	116233 (100%)	Mineral Claim	2015/OCT/04	2028/SEP/01	62.13
1039166	MONASHEE-STAR	116233 (100%)	Mineral Claim	2015/OCT/07	2028/SEP/01	269.32
1039167	GOLDEN-ROSE	116233 (100%)	Mineral Claim	2015/OCT/07	2028/SEP/01	62.13
1044860	GOLD STAR	116233 (100%)	Mineral Claim	2016/JUN/20	2028/SEP/01	352.27
5	Mineral Claims				Hectares:	1015.15

* Good to date pending government approval.



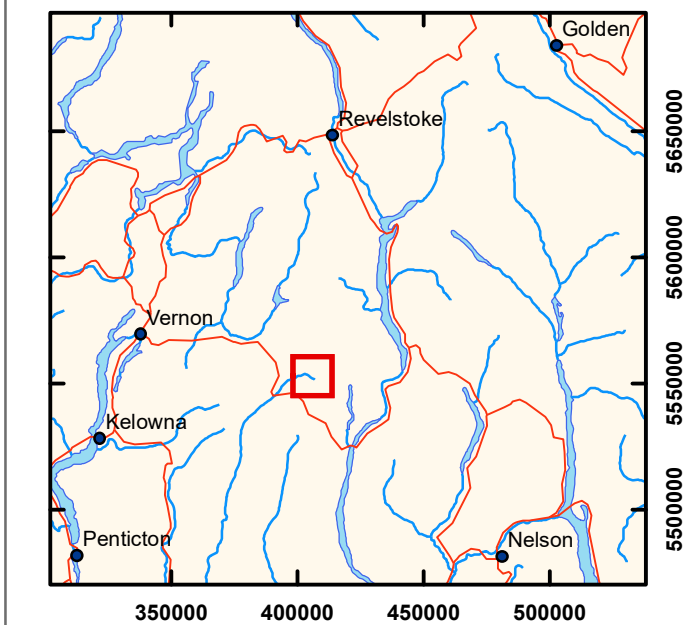
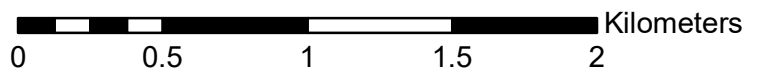
UTM Nad 83 Zone 11

Drawn By: Alicia Carpenter

Figure 2: Lode Star Property Claim Map

Legend

- Lode Star Property Claims
- Other Mineral Claims
- Forest Service Roads
- rivers
- lakes



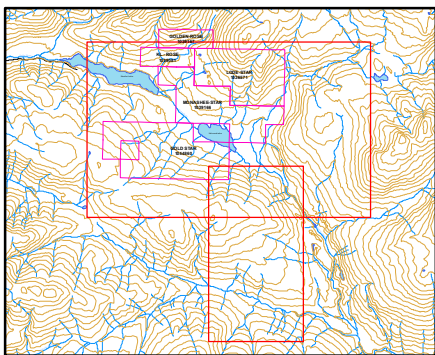
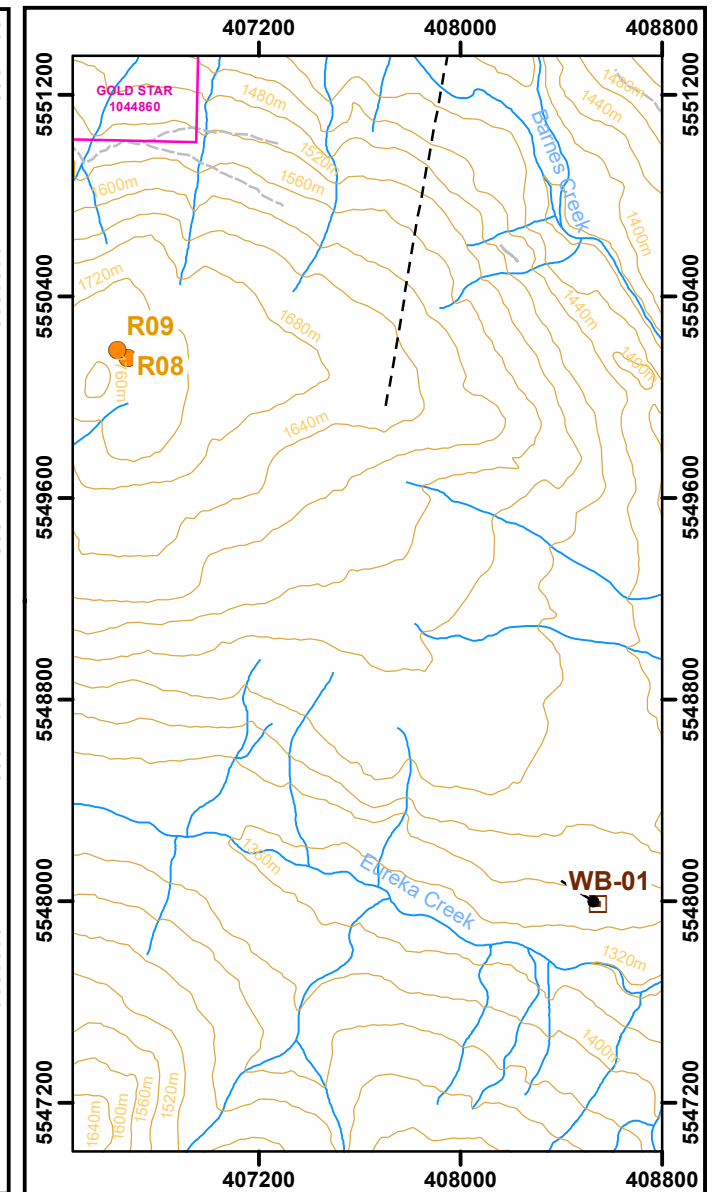
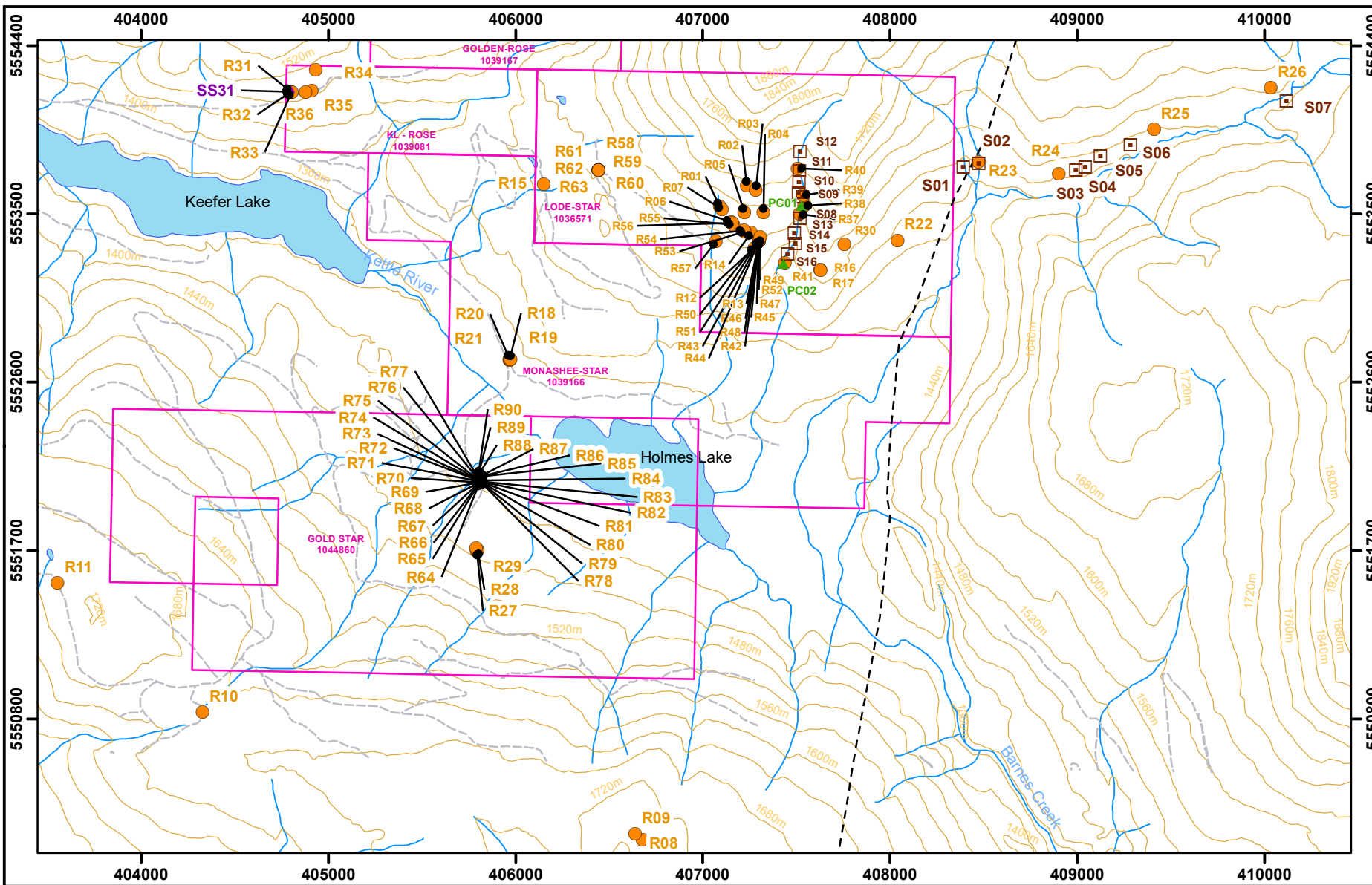


Figure 3
2017 Geochemical
Sample Locations

Legend
Sample Type

- Chip; Float; Grab; Subcrop
- ▲ Pan Concentrate
- ◻ Silt
- ◆ Soil


Samples listed in assay certificates as LS-17xxx

- Forest Service Roads
- Fault
- ◻ Lode Star Property Claims
- ~ Creeks & Rivers

Drawn By: A. Carpenter
 Drawn on: March 19, 2018

Drawn For:
 Cayenne Capital Corp.

Projection:
 Nad 1983 Zone 11



Project: Lode Star Gold
 Scale: 1:30,000

4.0 EXPLORATION HISTORY

Multiple creeks surrounding the Lode Star property have recorded placer production. Eureka Creek had a recorded production of 870 grams gold between 1931 and 1945 (Minfile 082LSE046). Barnes and Holding Creeks have a combined total production of 2581 grams of gold between 1925 and 1945 (Minfile 082LSE053). These are located outside of the current Lode Star claim boundary.

The earliest recorded hard rock mineral exploration activity on the Lode Star property took place in 1973. Geological mapping and geochemical rock and soil sampling fieldwork were carried out by Duncanex Resources Ltd (Morrison, 1974). Geochemical soil sampling identified anomalous gold and silver values (>100ppm Au). An inferred fault complex trending N-NW and E-NE was identified approximately 250-1,000 m east of the KL Minfile (082LSE021: UTM NAD 83 405224 E, 5554174 N). Quartz diorite and quartz diorite feldspar porphyry are found near the inferred fault complex. Locally pyritization, silicification and chloritization are in evidence where the igneous rocks cut hornfels. Soil Sampling was also conducted during the program, and intrusive dyking and local faulting were observed in the anomalous areas (Morrison, 1974).

Between 1982 to 1984 several companies completed geochemical surveys over claims that are now part of the Lode Star property. In 1982 the claims were staked as the Keefer claims, and a small soil sampling program was conducted on behalf of the owner, F. Marehard. Anomalous gold values of 120-230ppb were returned from the western edge of the current Monashee-Star claim (McGoran, 1982). In 1983 Cominco collected soil samples on the Kee 1-6 claims. This sampling program identified six arsenic anomalies in areas underlain by black argillites with limestone lenses (Wynne, 1983). Demus Petroleum Resources conducted two geochemical sampling programs in 1983 and 1984. The 1983 program identified anomalous gold and arsenic assay values north of Holmes Lake (Burton Consulting, 1983). In 1984 another geochemical sampling program attempted to identify more anomalies north of the previous years' grid. The correlation between gold and silver values, with those of the previous survey, were lower than expected and no new anomaly was identified (Schildhorn, 1984).

In 1985 the Keefer claims were re-staked as the Snow 1-4 claims. In 1988, Ocean Crystal Resources Ltd carried out geological mapping and collected 47 soil and nine rock samples for geochemical analysis on the Snow claims. The highest gold values obtained from the soil samples collected in 1988 were 310 ppb and 235 ppb, with corresponding arsenic values of 780 ppm and 420 ppm. Only one silver value exceeded 1 ppm. The rock source for these anomalous soil samples has not been determined. Further sampling is suggested for areas of arsenic

anomalies and additional exploration is warranted to locate the source of gold in soil (Caltagirone, 1988).

In 2003 to 2005, Columbia Yukon Explorations Inc. (Columbia Yukon) conducted exploration programs which included soil sampling, prospecting, and trenching on the Barnes and KBM claims. Some of these surveys were conducted over ground that is now part of the Lode Star property.

In 2003, Columbia Yukon conducted a large soil sampling program. The main gold and arsenic anomaly discovered occurs within the boundaries of the current Lode Star property. This anomaly occurs in the southwest corner of the property, the Gold Star claim, with soil samples up to 340ppb Au coincident with a significant arsenic anomaly (Augsten, 2003a). The sampling program was followed up by 900m of trenching of the newly discovered Au-As anomalies. The results were positive, with Trench 38E containing centimeter scale quartz veins with visible gold, returning assays of 52.8g/t Au and 254.92g/t Au (Augsten, 2003b).

In 2004 Columbia Yukon continued exploration in the area, with a program of soil geochemical sampling, trenching, prospecting, and the completion of four drill holes. Two main target zones within the Lode Star claim boundaries were identified during this program; the Holmes Lake Zone (Lode Star North), and the Barnes Zone (Gold Star claim). Soil samples were collected and analyzed from the Holmes Lake grid, the northeast quadrant of the Lode Star claims. The Holmes lake grid identified several gold-silver-arsenic +/- antimony +/- copper anomalies. More soil samples were collected from a grid that extended northwestward from the 2003 grid on the KBM claims, a small portion of which were collected within the current Lode Star property boundaries. This soil grid, called the Barnes grid extension, discovered Au-As anomalies in the portion of the grid contained within the current Gold Star claim block, an extension to the anomaly identified during the 2003 sampling program.

Approximately 150m of trenching was completed in the Barnes Zone (Gold Star claim) as part of a rock geochemical sampling program. This trenching identified narrow gold-bearing quartz veins hosted in a structurally disturbed argillite. Veins are northeast trending, and moderately dipping towards the southeast. Several samples with significant gold values ranging from 1 to 26.5 g/t were collected from trenches in both the Barnes and Holmes areas (Augsten, 2004).

To follow up the positive trench sample results, four drill holes were completed in the Barnes (Gold Star) zone. Two of these drillholes, 04BC-1, and 04BC-4, were collared on the current Lode Star claim blocks. These two holes were collared in argillaceous siltstone with pyrite

greater than pyrrhotite, but both quickly encountered a shallow angle fault below which pyrrhotite greater than pyrite. No significant mineralization was observed in these holes (Augsten, 2004).

In 2005, further soil geochemical sampling expanded the Holmes Lake Grid, and in March 2005, part of the original soil anomaly was trenched (Augsten, 2005b). The Holmes Lake Grid covered an area of approximately 1.7 kilometers by 1.3 kilometers. The 2004-2005 soil grid coverage had identified several significant gold and arsenic soil anomalies. The most important of these is a broad west-northwest-trending anomaly, approximately 650 meters by 200 meters in size, in the northern part of the soil grid. The anomaly has potential to continue both to the west-northwest and east-southeast. Quartz veins occur at the southeast portion of this anomaly and corresponded to high gold in soil values of 1,280 ppb Au with accompanying elevated silver and arsenic. There is a positive correlation between gold and arsenic in soil samples. Outcrop exposure over the Holmes Lake anomaly is limited.

Anomalous Au-As soil samples collected during the 2005 program are underlain by feldspar porphyry or feldspar porphyritic diorite bedrock, and minor argillaceous sediments. On the southern part of the soil grid there is another northwest-trending anomaly parallel to, but more poorly defined than, the northern anomaly; it is best described as a series of anomalous clusters of gold and arsenic soil anomalies trending west-northwest. Within the southern anomaly, high values of 365ppb gold and 300ppm arsenic were returned, and visible gold was panned from the 365 ppb Au in soil sample site (406,900 E, 5,552,500 N) (Augsten, 2005a). The gold anomalies identified are completely covered by the current Lode-Star claim group.

Trenching on the Holmes Lake Grid in 2005 carried out by Columbia Yukon Exploration Inc. uncovered several gold-bearing quartz veins. Gold-bearing quartz-sulphide vein material in trenches coincided with the strong west-northwest trending gold-arsenic-silver soil anomaly (Augsten, 2005b). A total of 300 meters (1-3 meters deep, and 1-3 meters wide), of trenching was completed in the spring of 2005.

Trenching in 2005 discovered a previously unknown gold-bearing structure with gold- and silver-bearing quartz veins as well as strongly altered wallrock. The northernmost trench (TR33N) contained smaller quartz veins that host the broadest area of intensely altered wallrock. The apparent width and intensity of this alteration zone suggests a strong hydrothermal system. The veining discovered in these trenches occurs proximal to the trace of a major north-trending normal fault, the Bevan Fault, and more specifically in the hanging wall of that fault. The Bevan fault may be an important mineralization control in this area.

Columbia Yukon collared an exploration drill hole approximately 60 meters north of the east-central portion of Trench 33 N (Easting 407,650 E, Northing 5,553,292 N, 1,610m a.s.l.kj There is no public documentation of drill logs or geochemical analysis from this drill hole.

In 2015, Rich River Exploration Ltd. was commissioned by Cayenne Capital Corp to conduct an exploration program of geological mapping, and geochemical rock, silt and soil sampling on the property for the identification of base and precious metal bearing mineralization.

A total of 10 hectares (24.7 acres) was mapped at a scale of 1:5,000 and 12 rock chip samples were taken on the south and central parts of property. The focus of this program was to follow up on trenching completed by Columbia Yukon in 2005 and to explore outcrop recently exposed by a new logging road (Kikauka, 2016). Quartz-sulphide veins collected from west of Barnes Creek returned values of up to 18.8 g/t Au.

In 2016 field work conducted on the Lode Star claims consisted of geological mapping at varying scales, and 110 samples collected for geochemical Inductively Coupled Plasma (ICP) and Au analyses of rock, soil, and pan concentrate samples, and petrographic analyses. Significant results of the program include samples 753, 754, & 755 from the Lode Star West area with a weighted average of 1.1g/t Au, and 3.34 g/t Ag over 1.5m. Soil samples collected in the Monashee Star claim, indicate that the southern east-southeast trending anomaly identified by Columbia Yukon in 2005 (Augsten, 2005a) continues to the south-east, and is still open in that direction.

5.0 2017 SUMMARY OF WORK

Fieldwork on the Lode Star Property on behalf of Cayenne Capital Corporation was completed by Rich River Resources. A total area of 850 ha was prospected, and 110 samples were collected from the Lode Star property on 2017 for ICP analysis: 90 rock samples (consisting of 58 grab, 6 chip, 4 subcrop, and 2 float samples), 17 silt samples, 2 pan concentrate samples, and 1 soil sample. Sample locations are displayed in Figure 3. Prospecting and sampling were completed between April 17 and August 5, 2017 on mineral claims 1036571, 1039081, 1039166 and 1044860 at a cost of \$51,218.14. This report discusses the work completed during this period. Details of the reported assessment work expenditures can be found in Appendix II.

On February 16, 2017, under Event Number 5686134, \$73,548.14 (\$51,218.14 of assessment work and \$21,930.40 of PAC credits) was filed on the five Lode Star Property Claims advancing

their expiry dates to September 1st, 2028, upon government approval of this assessment report (See Table 1 for details).

Most of the 2017 exploration program focused on exploring the continuity of the northwest trending gold-silver soil anomaly running through the Lode Star claim, which locally hosts high grade gold veins, and furthering efforts to find sources of mineralization in the Gold Star claim to the south. Additional sampling was completed at the western edges of the MonasheeStar and KL-Rose claims in order to study the lateral extent of the known gold-silver anomalies identified by previous work. In addition, stream sediment sampling was conducted to the east of the claim block in order to provide insight into the source of some of the known anomalies in the Lode Star claim.

6.0 GEOLOGY

6.1 Regional Geology

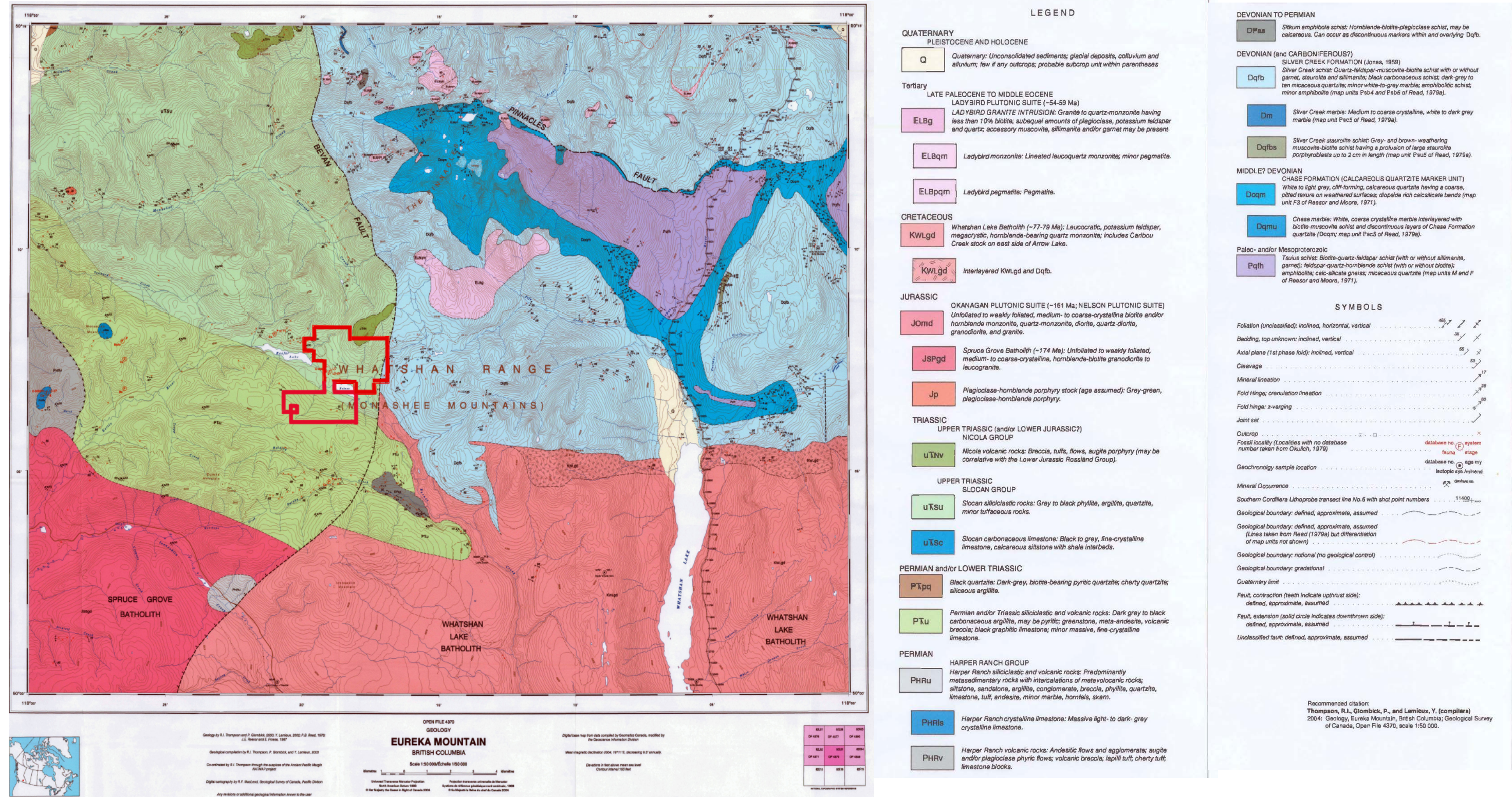
The Lode Star property lies within a west-northwest trending, 16km wide belt of weak to moderately metamorphosed volcanic and sedimentary rocks made up of the Devonian-Permian Harper Ranch Group and Upper Triassic Nicola-Slocan Group. This trend extends from Holmes Lake to Cherryville, 26 km (16 miles) west-northwest of the claim group. The Mesozoic Nicola Slocan Group of rocks have faulted contacts with Monashee Group gneisses lying towards the northeast, most notably the north-south trending Bevan fault which crosses the eastern edge of the Lode Star claims (Fig 4). Intrusive rocks of the Cretaceous Whatshan Batholith (potassium feldspar megacrystic, hornblende-bearing quartz monzonite), and Jurassic Spruce Grove (hornblende-biotite granodiorite to leucogranite) surface 4km to the South of the claims, and directly to the East of the Bevan Fault.

The Devonian-Permian Harper Ranch Group is characterized by a thick sequence of argillaceous sediments, with minor intercalated limestone and andesitic volcanic rocks. Locally, the argillaceous sediments contain large limestone inclusions ranging from five centimeters to three meters. The Upper Triassic Nicola Group volcanics are characterized by augite porphyritic breccias, tuffs and flows. The Upper Triassic Slocan Group consists of siliciclastic rocks; grey to black phyllite, argillite, quartzite and minor tuffaceous rocks (Thompson et al. 2003).

Low grade metamorphism of the sedimentary and volcanic rocks has been caused by emplacement of Jurassic and/or Cretaceous granodiorite, quartz diorite, and diorite intruding the Paleozoic Harper Ranch Group and the Triassic Nicola and Slocan Groups.

Regionally, the metamorphic grade varies from amphibolite facies for the Monashee Complex metamorphic rocks to the east, mid to lower greenschist for the Harper Ranch Group rocks to the south, and mid to upper greenschist for Slocan and Nicola Group rocks to the north.

Figure 4: Regional Geology of the Lode Star Property (Thompson et al, 2003)



6.2 Property Geology

The most recent geological interpretation of the Lode Star property is based on 1:50,000 mapping compilation by the GSC (Thompson et al, 2003). This interpretation shows most of the property is underlain by Upper Triassic Slocan Group siliciclastic rocks (uTrNsf) comprised of grey to black phyllite, quartzite, and minor tuffaceous rocks, with local upper Triassic Nicola Group volcanics along ridges (uTrJN). The southern portion of the claim group is underlain by the Upper Paleozoic Harper Ranch Group, and consists of siliciclastic and volcanic rocks, including locally pyritic argillite, meta-andesite, and variable limestones. The Harper Ranch Group was identified as the Thompson assemblage in earlier reports on the area (Hoy et. al, 1994). The north-south trending Bevan Fault surfaces on the eastern edge of the property and marks the western boundary of the Monashee metamorphic complex. This sequence of Paleozoic and Mesozoic volcanic, sedimentary, and metamorphic rocks is intruded by apothoses (stocks, dikes-sills) of Jurassic Nelson batholith and/or Cretaceous Whatshan batholith. Kilometer-scale areas of Jurassic and Cretaceous intrusive rock with lithologies including granodiorite, minor quartz diorite, granite and porphyritic phases, outcrop extensively south of the Lode Star property (Augsten, 2005a). Tertiary (Miocene to Pliocene) plateau basalts cap portions of the intrusive rocks and their contact with the Harper Ranch Group to the south.

In the northern portion of the claim blocks, Upper Triassic Nicola and Slocan Group argillites are intruded by fine-grained feldspar porphyry (Kwhfp) and microdiorite (KWh) with minor metamorphic layering (weak fabric and recrystallization texture developed). Quartz diorite dykes of variable texture occur in the creek valleys on the western side of the property. Intrusive dykes cause alteration of the surrounding sedimentary rocks, with an assemblage of quartz, chlorite, kaolinite, montmorillinite, ankerite, and calcite. Crude layering observed in intrusive and meta-sedimentary rocks roughly trends northwest. The intrusive and meta-sedimentary rocks are cut by late-stage quartz-sulphide veining/brecciation that dip steeply to the east-south east.

The southern portion of the Lode Star property (Gold Star and Monashee Star claims) is underlain by Devonian-Permian Harper Ranch Group & Upper Triassic Nicola Group siltstone and limestone metamorphosed to phyllite and marble. The area is weakly mineralized, and quartz veining contains sparse sulphides consisting of pyrite and minor pyrrotite. The quartz veining occupies fractures and dilatant zones that dip steeply to the east. The compositional layering of meta-sediments trends west-northwest and the fractures and quartz veins are, in most places, perpendicular to layering. Steeply dipping east-northeast trending faults were observed in the

eastern portion of the Gold Star zone. An area of deformation adjacent to Holmes Lake is represented by metamorphosed limestone containing pyrite and trace amounts of graphite.

Locally along ridges, Upper Triassic Nicola group Andesites are exposed (UTrJN). The most common variety of andesite is a massive to medium-grained metamorphosed greenstone. The andesite is crumbly in outcrop, whereas the argillaceous sediments tend to break along cleavage planes. A fine-grained, highly fractured and weakly silicified andesite occurs at the western edge of volcanic exposures metamorphosed to greenstone. Near fault zones, some serpentinization of altered mafic volcanics are reported (Morrison, 1973). Traces of quartz and calcite as 0.1-1.0 cm wide veinlets are widespread throughout the andesite. Quartz veins are emplaced as fracture filling related to structural extension (dilatant) zones. A porphyritic variety of andesite occurs near the southeastern corner of the claim group. The rock contains 10% augite phenocrysts (2mm) and 20% plagioclase phenocrysts (2mm).

Mineralized quartz veins are hosted by intrusive phases in the northern portion of the Lode Star property and are associated with a feldspar porphyry unit and quartz-pyrite-calcite alteration. The highest-grade gold mineralization occurs in strongly fractured quartz vein sets with low sulphide contents, but trace amounts of very fine-grained fracture-controlled visible gold.

Pyrite, arsenopyrite, chalcopyrite, galena and tetrahedrite are the principal sulphides found in the quartz gangue. Silver grades appear to correlate with tetrahedrite content; however, some of the gold may be electrum. Gold values are closely related to high antimony, arsenic, and lead values.

Veins are generally narrow, tabular or splayed and occur as sets of parallel and offset veins. Individual mineralized veins are approximately 10cm in width within intrusive host rock, and 1cm in width when hosted in argillite. The quartz-sulphide fissure veins present on the property trace fissures and faults that are mainly north to northeast trending. (Augsten 2005b). At this time, the extent of the mineralized trends is unexplored.

6.2.1 Lode Star Property Lithology Legend

(Kikauka, 2016)

MiPiCvb Miocene to Pliocene Chilcotin Group basalt

KWh Cretaceous Whatshan Batholith, granodiorite, quartz diorite, diorite

Kwhfp fine grain feldspar porphyry

MJgd Middle Jurassic Nelson Batholith, granodiorite, quartz diorite, diorite` granite, porphyritic phases

uTrJN Upper Triassic Nicola Group volcanic rocks (greenstone)**

uTrNsf Upper Triassic Nicola & Slocan Group mudstone, siltstone, shale**

DTrHsf Devonian-Permian Cache Creek
Harper Ranch Group medium & coarse grain argillaceous siltstone, black siltstone(phyllite), limestone(marble)*

DTrHvb Devonian-Permian Cache Creek
Harper Ranch Group andesite (greenstone)*

PrPzMpg Proterozoic-Lower Paleozoic
Monashee Complex paragneiss***

Mzpe Mesozoic pegmatitic granitic Intrusive rocks***

PrPzMqz Proterozoic-Lower Paleozoic
Monashee Complex quartzite, quartz arenite***

Metamorphic grade:

* 250-375 degrees C, 2-6 Kbar

**250-450 degrees C, 2-8 Kbar

*** 400-700 degrees C, 2-12 Kbar

7.0 2017 EXPLORATION PROGRAM

7.1 Introduction

The 2017 Lode Star exploration program was commissioned by Cayenne Capital Corp. and completed by Rich River Exploration Ltd. Field work was carried out between April 17 and August 5, 2016. The sampling program consisted of prospecting and geochemical sampling in the Lode Star, KL-Rose, Monashee-Star, and Gold Star claim blocks. Additional sampling was conducted along streams outside the claim blocks to verify the source for precious metal anomalies identified by previous exploration programs.

Most of the program was focused on exploring more of the northwest trending gold-silver anomaly running through the Lode Star claim, and furthering efforts to find sources of mineralization in the Gold Star claim to the south. The Lode Star gold-silver anomaly is visible in soil sampling results from work by Columbia Yukon (Augsten, 2005a). Trenching confirmed that high grade gold mineralization is locally coincident with the anomaly. The 2016 exploration program (Carpenter & Lynes, 2017) identified more high-grade bedrock sources along this trend a kilometer northwest of the initial discovery. The 2017 geochemical sampling program focused on filling in the area between these high-grade areas.

Outcrop exposure is poor in the Gold Star claim block and limited to gullies and road cuts. Chip sampling was undertaken in some of these rare exposures during the program to determine the geochemical signature of the metasediments. Historic trench sampling from the southeast corner of the claim block returned values of 254.92 g/t Au (Augsten, 2003b) hosted in quartz veining.

Additional sampling was completed at the western edges of the Monashee-Star and KL-Rose claims in order to study the lateral extent of the known gold-silver anomalies identified by previous work. The 2017 samples collected in the Monashee-Star claim coincide with the southwestern-most anomaly identified by Columbia Yukon's soil sampling program. Sampling in the KL-Rose claim is roughly on trend with the high-grade Lode Star showings.

Stream sediment sampling was conducted to the east of the claim block in order to provide insight into the source of some of the known anomalies in the Lode Star claim.

Assay certificates can be viewed in Appendix V and Sample Details in Appendix IV.

7.2 Prospecting

A total area of 850 hectares was prospected during the 2017 field program. The prospecting was focused on the northwest trending gold-silver soil anomalies which run through the Lode Star and Monashee-Star claim block, and outcrop exposure of metasedimentary rocks in the Gold Star and KL-Rose claims. The prospecting program identified areas of interest based on the presence of quartz veining, quantities of pyrite and arsenopyrite, and proximity to shear structures and intrusive dykes. Prospecting was completed in conjunction with the sampling program.

7.3 Sample Collection and Analysis

Approximately 1kg of material was collected from each of the 90 rock sample locations. Chip samples consisted of acorn sized pieces along a 1m length perpendicular to mineralization or major structures. Grab samples were collected to identify and characterize mineralization. Where outcrop was not available samples of subcrop or float were collected. At each sample location, the GPS coordinates were recorded with a handheld device and a photograph of the site was taken. Rock samples were carefully collected to avoid contamination, placed in a marked poly ore bag, and securely stored prior to shipment.

For each silt sample location, raw material taken from a depth of 1-20 cm in the active channel of small creeks. One sample, LS-17S05, was collected from a moss mat. Approximately 500 grams of material was scooped into marked tyvex sample bags. The material was dried and securely stored prior to shipment.

For each pan concentrate sample 20 shovelfuls of material were panned, with a 200-900 g sample remaining for each. The samples were dried, placed in a marked tyvex sample bag, and securely stored prior to shipment.

For the single soil sample collected, 'B' horizon soil was taken from a depth of 10-30 cm with a grubhoe, and 500 grams of soil was placed into a marked tyvex sample bag.

All sample types were shipped to ALS laboratories in North Vancouver, B.C. for sample preparation and analysis. Upon arrival at the laboratory all samples were weighed, and recorded. Rock sample preparation consisted of typical drying, crushing, splitting, and pulverizing (ALS code PREP-31). Soil and stream sediment samples were screened to -180µm mesh size (ALS code PREP-41), with a portion of the minus fraction used for the analysis. Pan

concentrate samples were split, and then pulverized to 85% passing through 75 microns (ALS code PUL- 51).

All Samples were analyzed using an aqua regia digestion, followed by spectroscopy to determine base metal, and trace element content (ALS code ME-MS41). Gold assays for all samples returning values above the upper detection limit of 25 ppm Au were evaluated by fire assay with a gravimetric finish (ALS Code Au-Gra21). Silver assays for samples returning values higher than the upper detection limit of 100ppm Ag were evaluated using an aqua regia digestion and ICP-AE analysis (ALS Code ME-OG41). ALS Method Descriptions are attached in Appendix VI.

7.4 2017 Rock Sampling Results

The 2017 rock sampling program consisted of 90 samples (consisting of 58 grab samples, 26 chip samples, four subcrop, and two float samples). The majority of the samples were collected from the Lode Star and Gold Star claim blocks, with additional sampling in the eastern portion of the KL-Rose and Monashee-Star claims.

Sampling in the Lode Star claim block (See Figure 5) was focused along sampling gaps in the N-W trending gold anomaly identified by the Columbia Yukon 2004-2005 soil sampling program (Augsten, 2005a). The most significant results of the sampling are listed below in Table 2. 2017 Samples LS-17R16 and LS17R17, collected from a 2004 Columbia Yukon trench, returned the highest gold values (21.7 & 23.1 ppm Au) at the eastern edge of this anomaly. Samples LS-17R12, LS-17R13 and LS-17R55 show elevated gold and silver values and indicate a continuation of this trend to the northwest. In 2016, significant precious metal values were identified further to the NW along this trend, and the 2017 sampling connects these two known areas. Sample LS-17R30 returned a notable silver value of 130ppm Ag, with 0.22 ppm Au. The sample was taken from float to the north of the known trend.

Table 2: Significant Assay Results of 2017 Rock Sampling - Lode Star Claim

Sample Number	Au ppm	Ag ppm	Cu ppm	Pb ppm	As ppm	Sb ppm	Zn ppm	Description
LS-17R12	0.5	2.83	137	24.5	2230	33.9	42	Grab in Subcrop of Angular Volcanic with Qtz-As-Py vein
LS-17R13	0.22	1.93	29.8	3.5	50	46.4	69	Hydrothermal Altered Volcanic. Brecciated and Veined with Qtz with fine grained As-Py
LS-17R16	21.7	339	303	268	94	238	127	Grab of Qtz Float Subcrop
LS-17R17	23.1	663	502	375	72.8	645	148	Grab 20cm Qtz Vein in Outcrop. Old trench.
LS-17R30	0.22	130	152	6.7	110	75.6	24	Grab of Qtz Float on Steep Cat Road Below upper trench Minor Cu Stain
LS-17R55	0.56	7.68	456	4.9	833	97.3	23	Mass Sulphide Float Heavy Py-Po -As

Four samples were collected from the western edge of the Monashee-Star claim block (See Figure 6), these samples coincide with the southernmost anomaly identified by the 2004-2005 Columbia Yukon soil sampling program. This northwest trending anomaly runs parallel to the mineralized trend observed in the Lode Star claim.

Table 3: Significant Assay Results of 2017 Rock Sampling – Monashee Star Claim

Sample Number	Au ppm	Ag ppm	Cu ppm	Pb ppm	As ppm	Sb ppm	Zn ppm	Description
LS-17R18	3.4	8.67	24.5	68.5	16.8	2.02	40	Exposed 1-2cm Sheeted Veins in Altered Volcanic Rock. Disseminated pyrite in veins and wallrock.
LS-17R19	0.27	2.81	14.4	36.4	12.7	2.22	14	2cm wide Qtz Veins in Altered Volcanic siliceous Rock. Veins are 3-10cm apart
LS-17R20	1.58	3.73	22.5	41	44.4	2.07	69	5cm Rusty Vein in Outcrop

Extensive chip sampling was collected from sheared, Iron oxide-quartz-carbonate altered sediments in the northern portion of the Gold Star claim. These samples did not return significant gold results, with almost all samples returning Au values below detection limit. Silver values are relatively consistent, averaging 0.2 ppm.

Six samples were collected in the northwest corner of the KL-Rose claim. The area is underlain by metasediments, and sampling focused on sheared, iron stained outcrops with quartz veining. One sample, LS-17R36, returned a slightly anomalous gold value of 0.11 ppm Au along with a

silver value of 1.99ppm Ag. Samples LS-17R31 and LS-17R32 contained elevated silver (1.01, 2.02 ppm Ag).

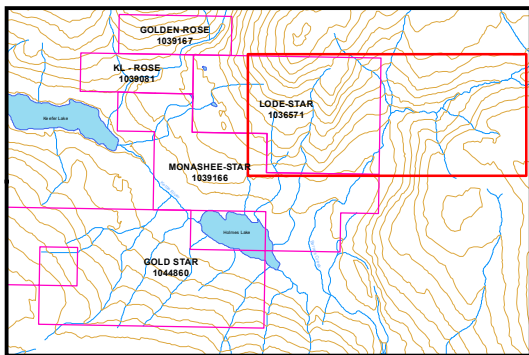
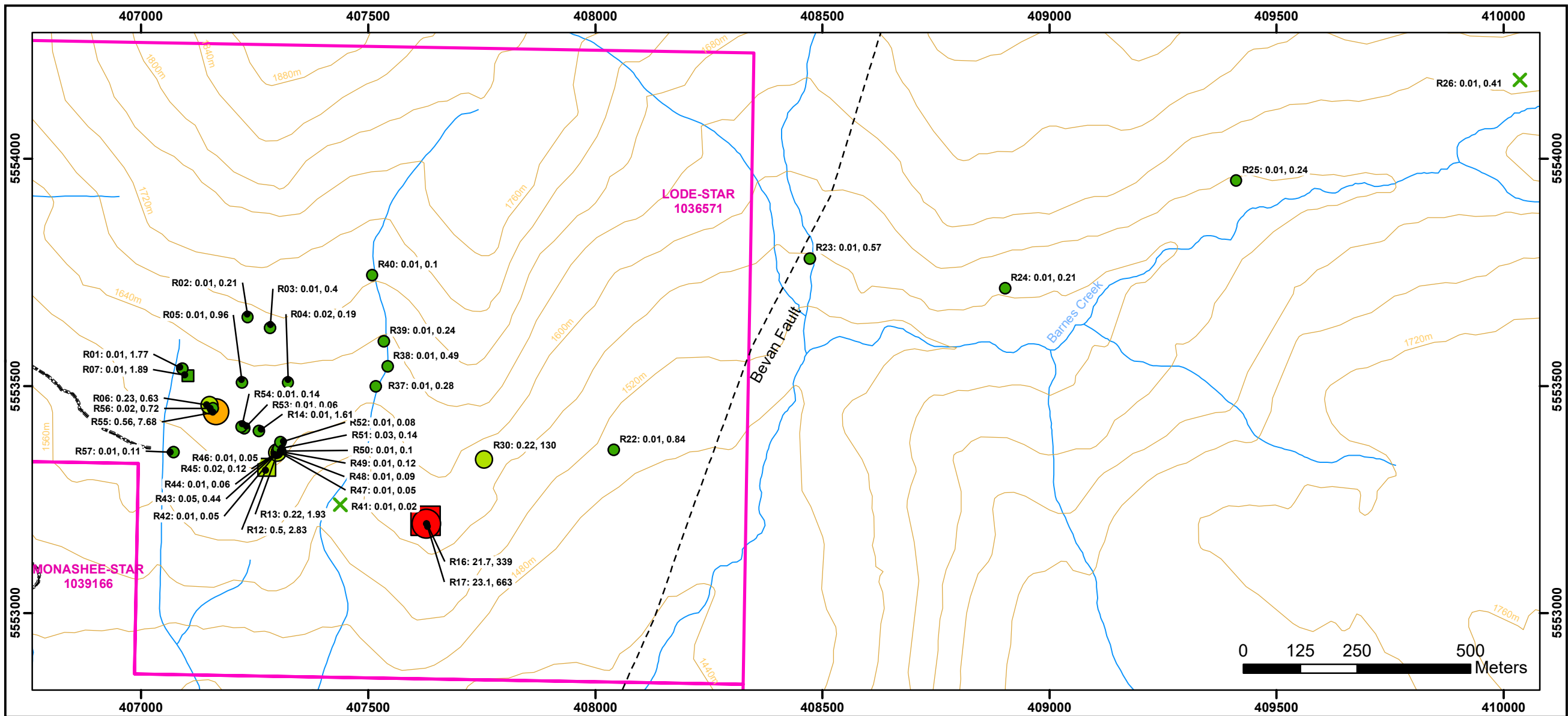


Figure 5
2017 Rock Samples
Assay Results
East - Map 1 of 2

2017 Lode Star Rock Samples Au, Ag ppm listed

Grab	Chip	Subcrop	Float
● 0.01 - 0.1	◆ 0.01-0.1	■ 0.01 - 0.1	× 0.01 - 0.1
● 0.1 - 0.5	◆ 0.1 - 0.5	■ 0.1 - 0.5	× 0.1 - 0.5
● 0.5 - 5.0	◆ 0.5 - 5.0	■ 0.5 - 5.0	× 0.5 - 5.0
● 5.0 - 23.1	◆ 5.0 - 23.1	■ 5.0 - 23.1	× 5.0 - 23.1

Samples listed in assay certificates as LS-17xxx

- Forest Service Roads
- - - Fault
- Lode Star Property Claims
- ~ Creeks & Rivers

Drawn By: A. Carpenter
 Drawn on: March 19, 2018
 Drawn For:
 Cayenne Capital Corp.
 Projection:
 Nad 1983 Zone 11
 Project: Lode Star Gold
 Scale: 1:10,000

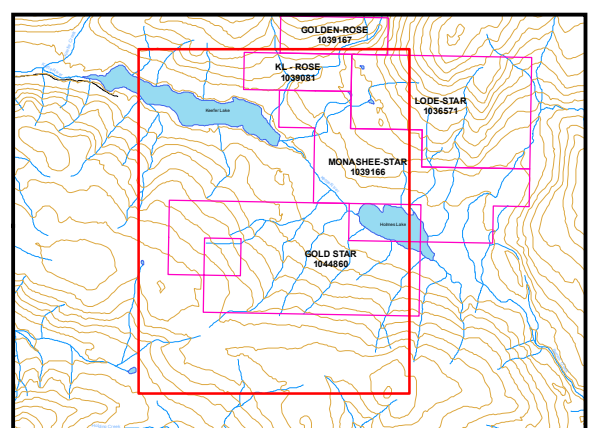
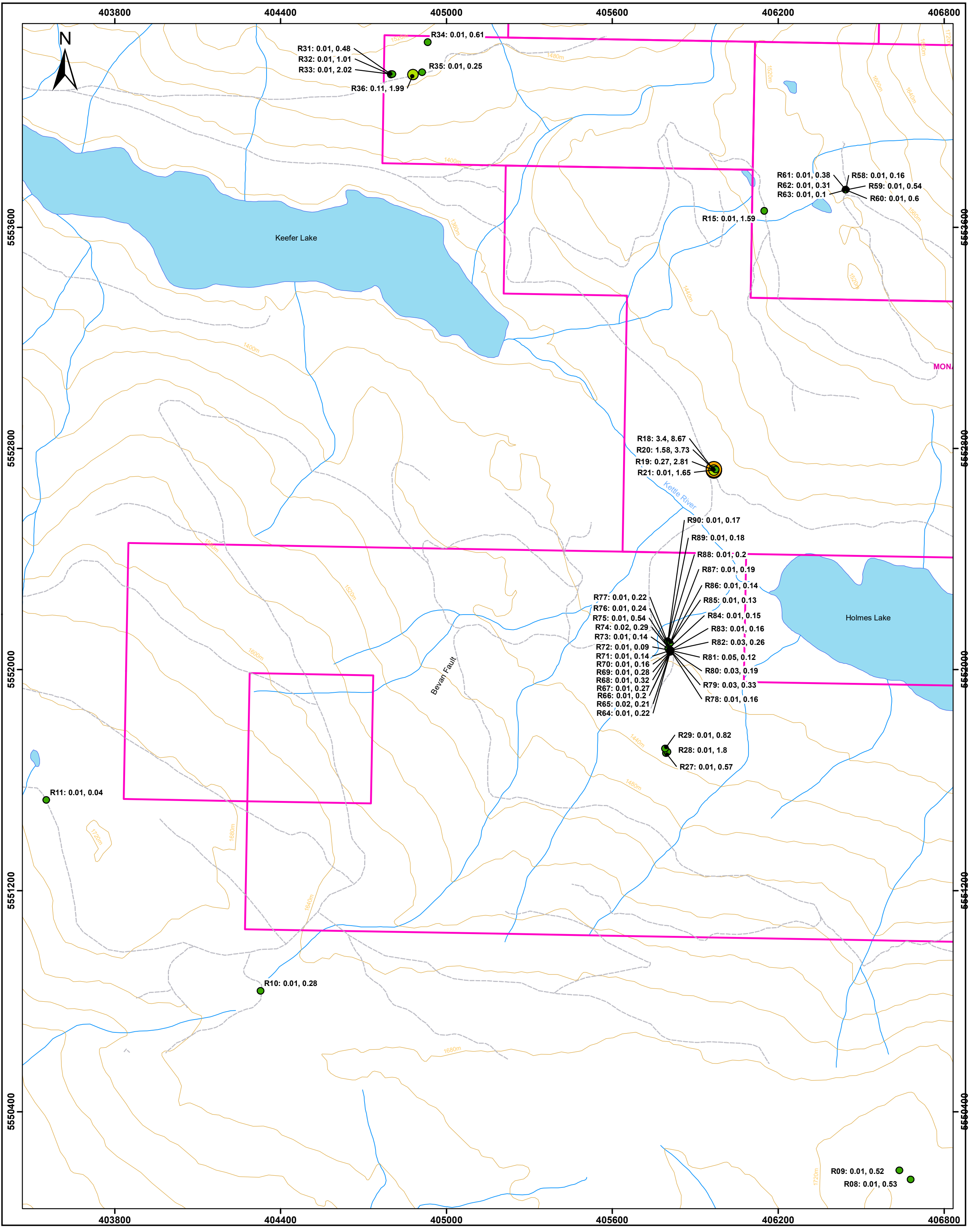


Figure 6
2017 Rock Samples
Assay Results
West - Map 2 of 2

2017 Lode Star Rock Samples Au, Ag ppm listed				Samples listed in assay certificates as LS-17xxx	
Grab	Chip	Subcrop	Float	--- Forest Service Roads	--- Fault
● 0.01 - 0.1	◆ 0.01 - 0.1	■ 0.01 - 0.1	× 0.01 - 0.1	--- Lode Star Property Claims	~~~ Creeks & Rivers
● 0.1 - 0.5	◆ 0.1 - 0.5	■ 0.1 - 0.5	× 0.1 - 0.5		
● 0.5 - 5.0	◆ 0.5 - 5.0	■ 0.5 - 5.0	× 0.5 - 5.0		
● 5.0 - 23.1	◆ 5.0 - 23.1	■ 5.0 - 23.1	× 5.0 - 23.1		

Drawn By: A. Carpenter
 Drawn on: March 19, 2018
 Drawn For:
 Cayenne Capital Corp.
 Projection:
 Nad 1983 Zone 11
 Project: Lode Star Gold
 Scale: 1:93,649

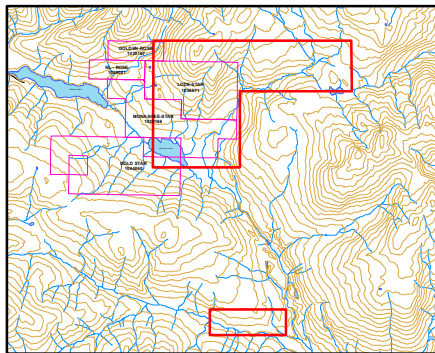
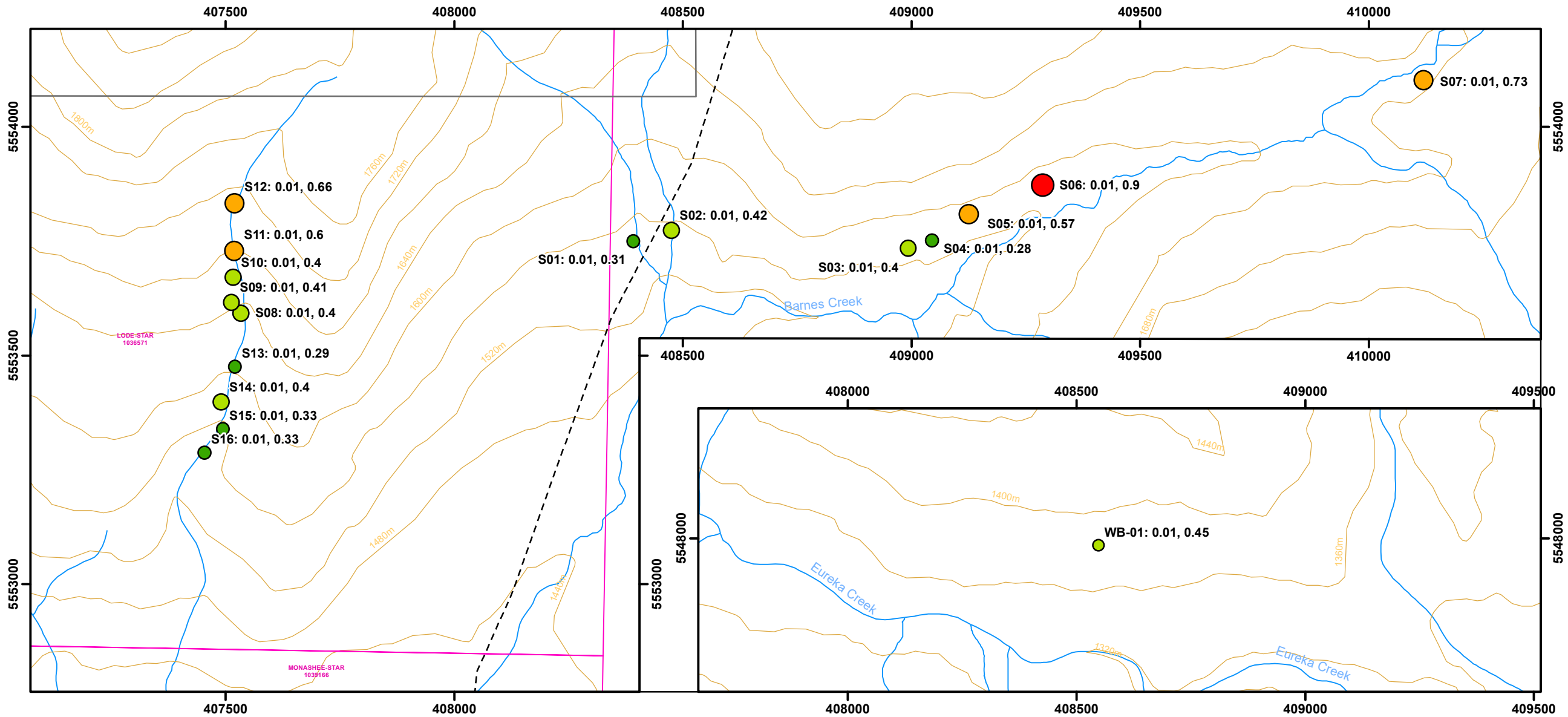
7.5 2017 Stream Sediment Sampling Results

A total of 17 stream sediment samples were collected from active stream channels, with the exception of sample LS-17S05 which was collected from a moss mat. Nine of these samples were collected from the unnamed creek which runs down the center of the Lode Star claim (See Figure 7). Barnes Creek, which runs through the eastern side of the claim block, was a target for exploration this year, but no appropriate sampling locations were identified within the claim blocks. Seven samples were collected from tributaries of Barnes Creek at locations east of the Lode Star claim block at elevations between 1,550 and 1,640m elevation. One sample was collected downstream, south of the claim block, at 1,380m a.s.l.

All of the stream sediment samples sent for assay returned gold values below the detection limit of 0.02 ppm Au, and therefore cannot be used as an indicator for mineralization for this set of sampling. Silver results average 0.46 ppm Ag, which is in line with background silver values for this property. Elevated silver value appeared to occur at higher elevations, with lower values downstream. Although it is difficult to determine the significance of these results with the limited data set and high background silver values, it does suggest looking for repetitions of the NW mineralization trend in the northern portion of the claim block.

7.6 Soil Sample Results

One soil sample was collected from the western edge of the KL-Rose claim, which is underlain by metasediments. The sample returned insignificant (background) values for gold, silver, and any likely indicator elements (Sb, As, Cu). The sample did return Ba, Cr and Ni values that are highly anomalous in relation to other soil sampling data sets for the property which were conducted over volcanic rock.



**Figure 7
2017 Silt Sample
Assay Results**

**Legend
Silt samples Au ppm, Ag ppm listed**

- 0.28 - 0.33 ppm Ag
- 0.33 - 0.45 ppm Ag
- 0.45 - 0.73 ppm Ag
- 0.73 - 0.90 ppm Ag

Samples listed in assay certificates as LS-17xxx

- Forest Service Roads
- Fault
- Lode Star Property Claims
- ~ Creeks & Rivers

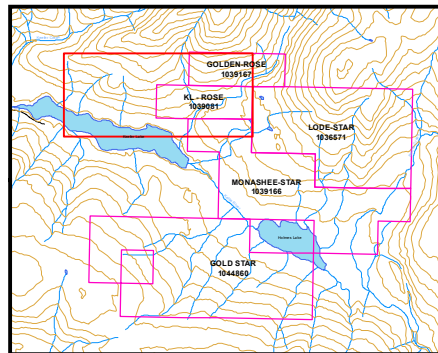
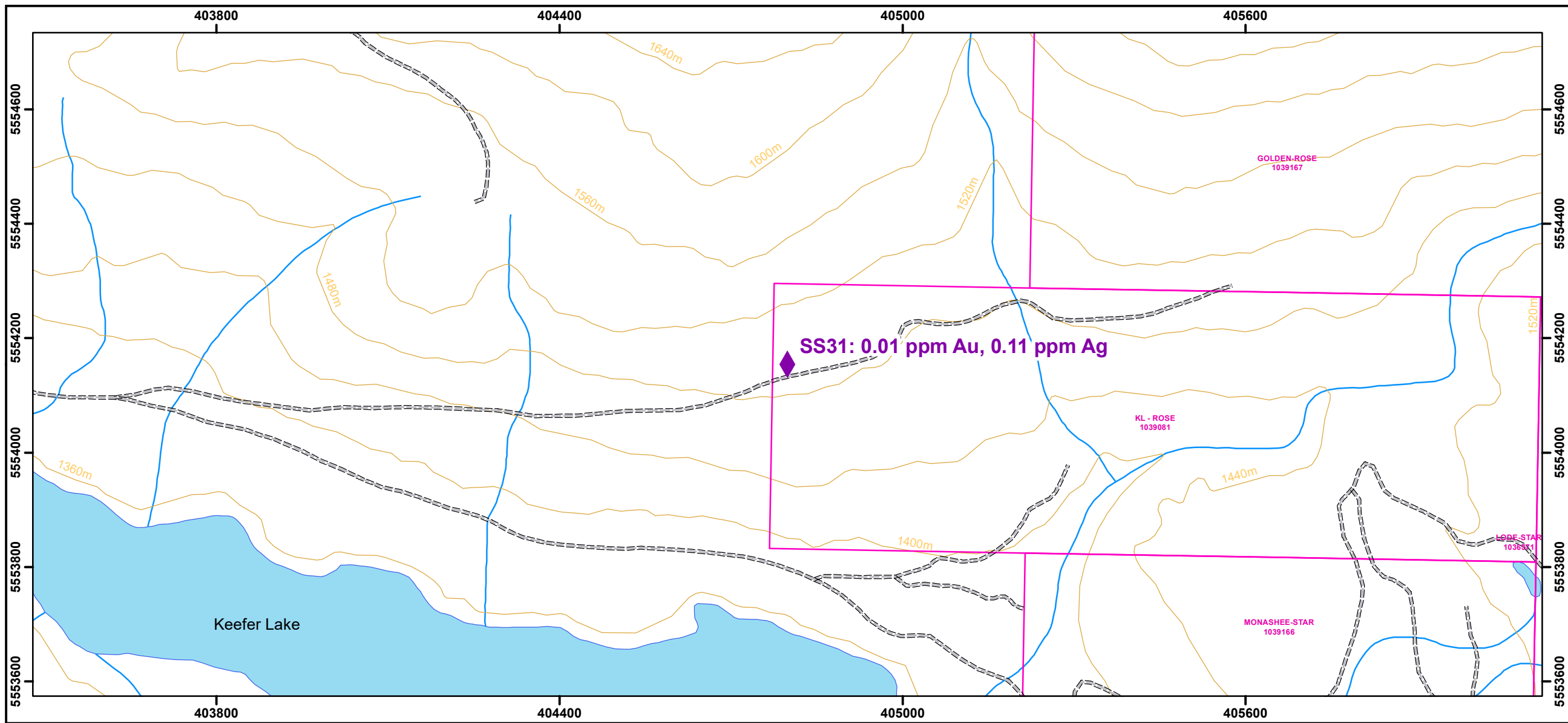
Drawn By: A. Carpenter
Drawn on: March 19, 2018

Drawn For:
Cayenne Capital Corp.

Projection:
Nad 1983 Zone 11



Project: Lode Star Gold
Scale: 1:10,000



**Figure 8
2017 Soil Sample
Assay Result**

Legend

- ==== Forest Service Roads
- Fault
- Lode Star Property Claims
- ~ Creeks & Rivers

Sample Type

- Chip; Float; Grab; Subcrop
- ▲ Pan Concentrate
- Silt
- ◆ Soil

Samples listed in assay certificates as LS-17xxx

Drawn By: A. Carpenter
Drawn on: March 19, 2018

Drawn For:
Cayenne Capital Corp.

Projection:
Nad 1983 Zone 11

Project: Lode Star Gold
Scale: 1:8,000



7.7 Pan Concentrate Sampling

Two pan concentrate samples were collected during the 2017 field program. These samples were collected from the unnamed creek which runs through the centre of the Lode Star Claim (See Figure 9). Sample LS17-PC01 returned significant gold and silver values of 17.25 ppm Au, and 17.2 ppm Ag. (See table 4 below).

Table 4: Assay Results of 2017 Pan Concentrate Samples

Sample Number	Au ppm	Ag ppm
LS-17PC01	17.25	17.2
LS-17PC02	0.05	0.31

Sample LS-17PC02 was taken at approximately 1550m a.s.l. Trenches with visible gold are located just 200 m to the east, and slightly above the elevation of this sample. The results for this sample are lower than expected. Sample LS17PC02, returned significant precious metal values, and suggests that there may be more significant mineralization north of the current exploration target area.

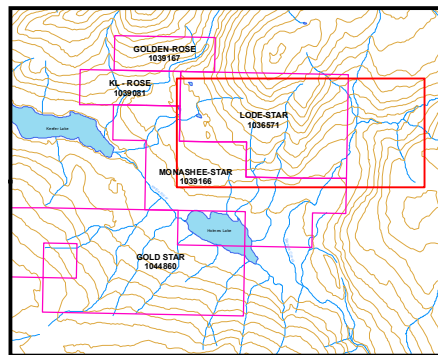
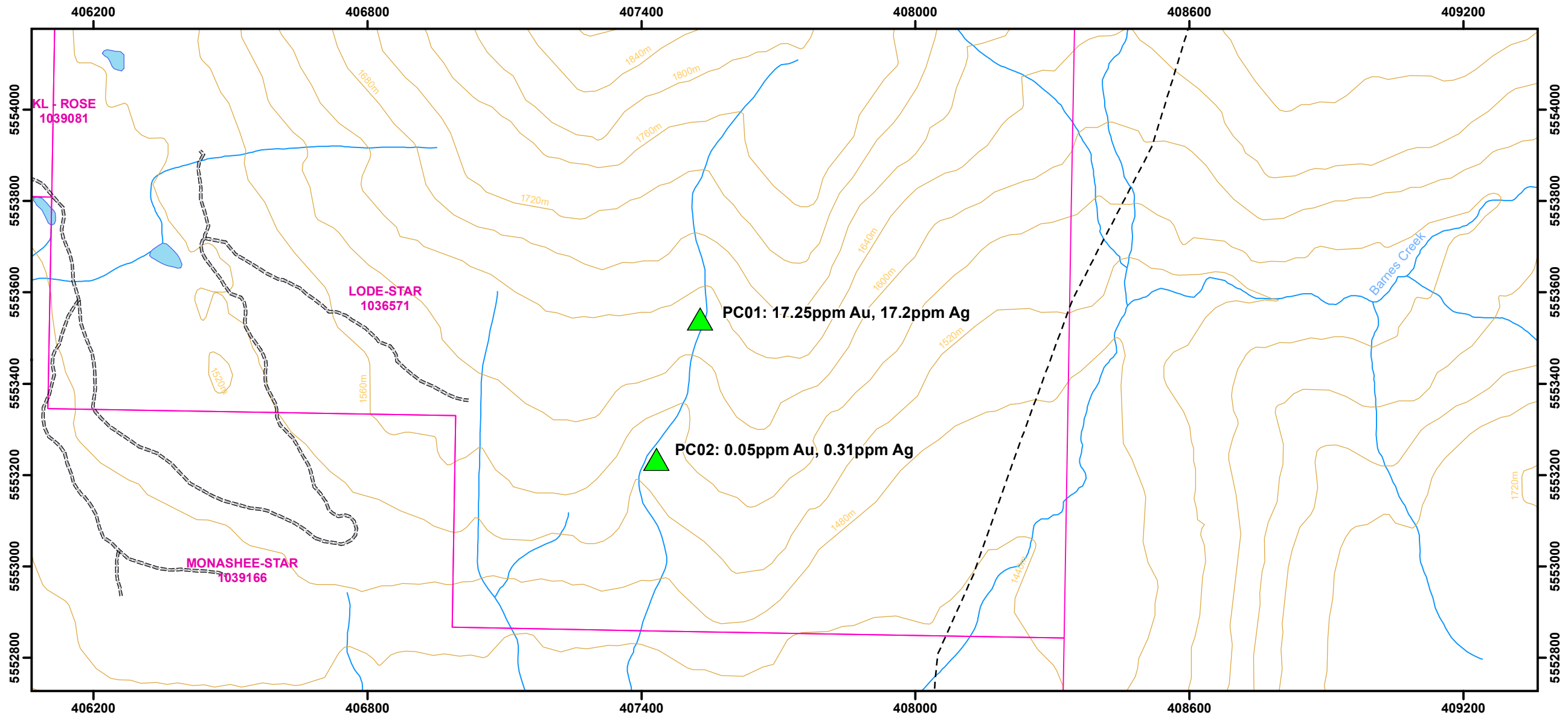


Figure 9
2017 Pan Concentrate
Assay Results


Legend

- ===== Forest Service Roads
- Fault
- ▭ Lode Star Property Claims
- ~ Creeks & Rivers

Sample Type

- Chip; Float; Grab; Subcrop
- ▲ Pan Concentrate
- ▣ Silt
- ◆ Soil

Samples listed in assay certificates as LS-17xxx

Drawn By: A. Carpenter
 Drawn on: March 19, 2018
 Drawn For:
 Cayenne Capital Corp.
 Projection:
 Nad 1983 Zone 11 
 Project: Lode Star Gold
 Scale: 1:10,000

8.0 DISCUSSION AND CONCLUSIONS

During the 2017 exploration program on the Lode Star property, geochemical sampling and prospecting was conducted within mineral claims 1036571, 1039081, 1039166 and 1044860. A total of 110 samples were collected for assay: 90 rock samples, (58 grab, 26 chip, 4 subcrop, and 2 float samples), 17 silt samples, 2 pan concentrate samples, and 1 soil sample.

The program focused on multiple areas: The Lode Star northwest trending gold anomaly, metasediments in the northern Gold Star claim, the western edges of the Monashee-Star and KL-Rose claims, and stream sediment sampling to the east of the claim block.

Geochemical sampling in the Lode Star claims during 2017 was focused on a 600m section of a linear, northwest-trending soil anomaly. This anomaly is 1.5km in length, and currently open in both directions. Several anomalous gold and silver values were returned from the samples which were collected from a gap between known high grade veins. The results confirm a linear trend: sample LS17-RS12 returned a value of 0.5ppm Au and 2.83 ppm Ag from a volcanic rock containing quartz-arsenopyrite-pyrite veins (See Figure 5). Outcrop is limited on the surface, and the results warrant further sampling in the area; trenching may be required for an adequate sampling program to be completed. Silt and pan concentrate samples from the unnamed creek in the center of the claim block suggest more mineralization is present to the north of the anomaly. Historic sampling indicates parallel repetitions of the linear anomaly to the south. Exploration for a parallel trend to the north is recommended.

The linear gold-silver soil anomalies within the Lode Star property were further explored in 2017 by sampling at their possible western extents within the Monashee-Star, and KL-Rose claim blocks. The 2017 sampling in the Monashee-Star claim tested the westernmost extent of the southern gold-silver soil anomalies (Augsten, 2005a). Results were positive with three of the four samples collected returning significant gold and silver values (see Table 3). Sample LS17-R18 contained 3.4 ppm Au and 8.67 ppm Ag. Sampling in the KL-Rose was off trend with the known anomaly, and results were less significant.

The southwest corner of the Gold Star claim has historic samples containing high grade gold-bearing veins. Outcrop throughout the claim block is very limited as the area is low angle, and low lying. Till coverage and vegetation make exploration difficult. Extensive chip sampling in outcrop was conducted in the northern part of the claim block to establish what mineralization was present in the metasediments. No significant gold- or silver-bearing rock was identified.

Determining the geochemical signature in the area of known mineralization and using that to target further exploration in the Gold Star claim may help in detecting additional mineralized zones.

The 2017 program provided further evidence that the northwest trending soil anomalies identified by Columbia Yukon in 2004-2005 represent significant mineralization on the same trend. Samples from the Monashee-Star claim identified mineralization coincident with the extreme southwestern extent of the soil anomaly, and sampling in the Lode Star claim showed that the northernmost soil anomaly has a known extent of 1.5 km. Stream sediment and pan concentrate samples indicate that another parallel trend may be present to the north. These anomalies appear to be an effective exploration tool, and sampling should be continued to further develop the continuity of these trends.

Outcrop exposure in the southern Gold Star claim is extremely limited, and mineralization has only been identified in outcrop in the southwest corner of the property. The sediment hosted mineralization is hosted in steeply east dipping quartz veins hosted in fractures and dilatant zones. A study of the area around the mineralized outcrop is recommended in order to determine geochemical vectors that could aid in the discovery of more mineralization of this style.

APPENDIX I

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REFERENCES

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MINFILE: British Columbia Mineral Occurrence database.

RGS: British Columbia geochemical database

MAPPLACE: interactive site for geoscience data for British Columbia.

APPENDIX II

STATEMENT OF EXPENDITURES

Summary of Expenses and Cost Statement

Personnel / Position	Field Days	# Days	Rate	Sub Total	Total
Craig Lynes / Prospector	Apr. 17-20	04 days	\$550.00	\$2,200.00	\$2,200.00
Allan Stark/ Field Tech	Apr. 17-20	04 days	\$500.00	\$500.00	\$2,000.00
Craig Lynes / Prospector	July. 15- Aug 05, 2017	22 days	\$550.00	\$11,000.00	\$12,100.00
Allan Stark / Field Tech	July. 15- Aug 05, 2017	22 days	\$500.00	\$11,000.00	\$11,000.00
LABOUR TOTAL					\$27,300.00
EXPENSES					
Meals /Accommodation	Apr. 17-20	52			
Travel	July. 15- Aug 05, 2017	person days	\$140.00		\$7,280.00
Truck Rental 1 4x4 vehicle		26 Days	\$200.00		\$5,200.00
Fuel/oil/vehicle					\$516.73
Assay Costs / shipping					\$3,988.61
Equipment rental- Radio's					
Chainsaws, Sat Phone etc.		26 days	\$120.00		\$3,120.00
Consumables Bags, Tags Batteries etc.					\$112.80
Data Compilation and Reporting					\$3,700.00
PROGRAM TOTAL					\$ 51,218.14

APPENDIX III

STATEMENT OF QUALIFICATION

I, Alicia N. Carpenter, do hereby certify that:

1. I am a self-employed consulting geologist in the minerals exploration industry with offices at 818 Second St. West Revelstoke, B.C. V0E 2S0.
2. I graduated from the University of British Columbia, Vancouver, British Columbia, with a Honours Bachelor of Science degree in Earth and Ocean Science in 2007.
3. I am a member in good standing of the Association of Professional Engineers and Geologists of British Columbia.
4. I have practiced my profession with exploration companies in British Columbia and Nunavut, Canada for ten years.
5. I am the author of the '2017 Geochemical and Prospecting Assessment Report on the Lode Star Property', dated April, 2017.
6. The Assessment Report is based on prospecting and sampling conducted by Craig A. Lynes of Rich River Resources, historical reports, and from information available from public files.
7. I have no interest in the property herein.

Dated at Revelstoke, British Columbia, Canada this 23rd day of April, 2017.



Alicia N. Carpenter

APPENDIX IV

SAMPLE DETAILS TABLES

Rock Sample	Label Name	Sample Type	Easting	Northing	Description
LS-17R01	R01	Grab	407091	5553538	Angular 3m Chunk of Mass -Semi Mass Sulphide in Altered Granite Host
LS-17R02	R02	Grab	407235	5553651	Grab of Hydrothermal Altered Volcanic . Cherty. Very fine grain Diss Py
LS-17R03	R03	Grab	407284	5553628	Grab in Outcrop. Cloritic Volcanic . Minor Fe. Altered
LS-17R04	R04	Grab	407324	5553507	Grab of Rusty Fe Altered . Fine Grain Diss Py. Old CYU Trench
LS-17R05	R05	Grab	407222	5553507	Grab of Semi Mass Sulphide in Float From Trench Rubble
LS-17R06	R06	Grab	407151	5553457	Grab of 20cm Rusty Qtz Vein in Outcrop in Road Bed. Granite Host. Py
LS-17R07	R07	Subcrop	407103	5553523	Grab of Angular Subcrop. Semi Mass Sulphide . Minor Cu-Py in Road Bed near end of Spur Road
LS-17R08	R08	Grab	406679	5550154	Grab of Rusty Phillite in Outcrop
LS-17R09	R09	Grab	406638	5550187	Grab of Pyritic L-S Py and Po
LS-17R10	R10	Grab	404328	5550837	Grab of Large Angular Qtz Float. Rusty with Wall Rock Fragments
LS-17R11	R11	Subcrop	403553	5551528	10cm Qtz Carb Vein in Subcrop. Road Ditch
LS-17R12	R12	Subcrop	407276	5553321	Grab in Subcrop of Angular Volcanic with As-Py . Qtz Vein
LS-17R13	R13	Grab	407300	5553353	Hydrothermal Altered Volcanic. Brecciated and Veinded with Qtz. Fine grained Sulphide in Qtz with As-Py
LS-17R14	R14	Grab	407259	5553401	Grab of Angular Subcrop in Road Rubble. Mass Sulphide. Po,Py, Cu-Py, As-Py
LS-17R15	R15	Grab	406150	5553660	Grab 10cm Chunk of Semi Mass Sulphide in Float.Angular Subcrop. Ditch Rubble
LS-17R16	R16	Subcrop	407626	5553203	Grab of Qtz Float. Subcrop
LS-17R17	R17	Grab	407629	5553197	Grab 20cm Qtz Vein in Outcrop. Old trench. Easting corrected by AC
LS-17R18	R18	Grab	405968	5552721	Borrow Pit.Exposed Sheeted Veins in Altered Volcanic Rock . 1-2cm Veins. Minor Diss Py. 2cm wide Veins with Diss Py
LS-17R19	R19	Grab	405968	5552722	2cm wide Qtz Veins in Altered Volcanic siliceous Rock. Veins are 3-10cm apart
LS-17R20	R20	Grab	405968	5552724	5cm Rusty Vein in Outcrop
LS-17R21	R21	Grab	405974	5552723	20cm Grab of Altered Zone Qtz Breccia Diss Py. Possibly As-Py. Faulted Volcanic
LS-17R22	R22	Grab	408041	5553359	Grab of Rusty Altered Volcanic Breccia with Qtz Veins.Diss Py. Vuggy
LS-17R23	R23	Grab	408473	5553780	Grab of Angular Qtz Vein Material. 25cm Vein. Py Blebs. Vuggy. Rusty in Fractures
LS-17R24	R24	Grab	408903	5553715	Grab of Angular Qts. Rusty in Fractures. Blebs.Py Rusty Vuggs
LS-17R25	R25	Grab	409412	5553952	Grab of 40cm Chunk of Qtz Float. Rusty Altered Qtz Carb
LS-17R26	R26	Float	410036	5554174	Rusty Pyritic Qtz in Float. Road Rubble. 1-8% Py

Rock Sample	Label Name	Sample Type	Easting	Northing	Description
LS-17R27	R27	Grab	405794	5551698	Rusty Hornfelsed Volcanic. Rusty 1cm Qtz Veins
LS-17R28	R28	Grab	405799	5551702	10cm Qtz Vein. Blebs. Mass Pyritie in Rusty Medaseds. Shear Zone
LS-17R29	R29	Grab	405791	5551714	Grab Mass Py Qtz Vein Altered Zone
LS-17R30	R30	Grab	407756	5553338	Grab of Qtz Float on Steep Cat Road Below Top Trench. Minor Cu Stain
LS-17R31	R31	Grab	404799	5554154	K L Rose Area. Grab of Siliceous Hornfelsed Seds in Contact with Granite on Old Road Near As Anomaly
LS-17R32	R32	Grab	404799	5554153	Grab of Very Rusty Zone High Supleide Po Py Siliceous Sucrosic Qtz Zone 70% Po Py Minor Cu-Py
LS-17R33	R33	Grab	404804	5554154	Rusty Carbinatous Black Meta Seds with 40% Fine Grain Py
LS-17R34	R34	Grab	404932	5554270	Grab of Silicifide Meda Seds with Diss Py and Po
LS-17R35	R35	Grab	404912	5554161	Qtz Shards in Subcrop Road Cut Near K L Rose Zone
LS-17R36	R36	Grab	404879	5554153	Grab of Rusty Qtz Float with Po Minor Py
LS-17R37	R37	Grab	407517	5553499	Qtz Sweats and eyes in Carbin Rusty Pyritic
LS-17R38	R38	Grab	407543	5553543	Grab of Suliceous Qtz with Mass Po-Minor Py Minor Cu-Py
LS-17R39	R39	Grab	407535	5553598	Grab of White Qtz Subcrop Angular in Creek
LS-17R40	R40	Grab	407509	5553744	Qtz Float in Creek Rusty
LS-17R41	R41	Float	407438	5553239	Start of Road Cut Trench in Au Anomaly 1m Chip Heavly Altered Chloritic Volcanic Rock
LS-17R42	R42	Grab	407299	5553353	1m Grab Altered Siliceous Volcanic Minor Py - Calcite Qtz
LS-17R43	R43	Grab	407299	5553353	Fractured Breccia Volcanic Minor Qtz Rusty Pockets
LS-17R44	R44	Grab	407299	5553353	Brecciated Volcanic Rock Minor Py Qtz Carb Alteration
LS-17R45	R45	Grab	407299	5553353	Brecciated Volcanic Rock Minor Qtz - Calcite Veins
LS-17R46	R46	Grab	407300	5553357	Rusty Altered Brecciated Volcanic Qtz Calcite Altered Minor Py
LS-17R47	R47	Grab	407300	5553357	Silicifide Qtz Carb Breccia in Volcanic Rock
LS-17R48	R48	Grab	407300	5553357	Fractured Altered Volcanic Brecciated Solicifide-Carb Altered
LS-17R49	R49	Grab	407300	5553357	Brecciated Volcanic Rock Rusty Qtz Carb Altered
LS-17R50	R50	Grab	407300	5553357	Crushed Zone Volcanic Seds Mixed
LS-17R51	R51	Grab	407303	5553362	Altered Fine Grained Intrusive Subcrop Road Bed Rusty
LS-17R52	R52	Grab	407307	5553376	Grab Siliceous Brecciated Intrusive Rock Subcrop Road Bed
LS-17R53	R53	Grab	407227	5553407	Outcrop Altered Biotite Granite in Road Bed
LS-17R54	R54	Grab	407221	5553410	Outcrop Diss Py

Rock Sample	Label Name	Sample Type	Easting	Northing	Description
LS-17R55	R55	Grab	407165	5553443	Mass Sulphide Float Road Rubble Heavy Py Po As-Py ?
LS-17R56	R56	Grab	407159	5553451	Grab of Mass Supleide in Granite Host Road Rubble
LS-17R57	R57	Grab	407071	5553354	Grab Qtz Carb Breccia in Volcanic
LS-17R58	R58	Grab	406444	5553736	Start of 1m Chip Samples Across Altered Zone in Granite Road Cut
LS-17R59	R59	Grab	406444	5553736	Rusty Hornefelsed Seds Heavy Fe Stain on Fractures Diss Py 1-10%
LS-17R60	R60	Grab	406444	5553736	Rusty Bleachy Fractured Seds Siliceous
LS-17R61	R61	Grab	406444	5553736	Crushed Shear Zone in Outcrop Rusty Rubble Altered Bleached Meda Seds
LS-17R62	R62	Grab	406444	5553736	Shear Zone Rubble 5m Trench
LS-17R63	R63	Grab	406444	5553736	Shear Rubble
LS-17R64	R64	Grab	405809	5552065	Start of Trench 1m Samples Hornefelsed Seds Stockwork Qtz Veinets Fe Altered Shattered
LS-17R65	R65	Chip	405809	5552065	1m Chip Altered Zone Stockwork Qtz Carb Veins Rusty Seds
LS-17R66	R66	Chip	405809	5552065	1m Chip Fractured Qtz Veins Meta Seds
LS-17R67	R67	Chip	405809	5552065	1m Chip Fractured Qtz Veins Meta Seds
LS-17R68	R68	Chip	405809	5552065	1m Chip Rusty Fe Stand Seds
LS-17R69	R69	Chip	405809	5552065	1m Chip Rusty Altered Meda Seds
LS-17R70	R70	Chip	405809	5552065	1m Chip Silicifide Zone 10 cm Qtz Vein Vuggy Only Minor Rust No Sulphides
LS-17R71	R71	Chip	405810	5552070	1m Chip Hornefelsed Seds Rusty Pockets 10cm Qtz Vein
LS-17R72	R72	Chip	405810	5552070	1m Chip Rusty Qtz Siliceous Seds Qtz Carb Altered
LS-17R73	R73	Chip	405810	5552070	1m Chip Hornefelsed Seds Qtz Carb Altered
LS-17R74	R74	Chip	405810	5552070	1m chip Breccia/Shear Meta Seds Rusty Pyridic
LS-17R75	R75	Chip	405810	5552070	1m Chip Shear Zone Brecciated Mineralized Pods Semi Mass Po Py Meta Seds
LS-17R76	R76	Chip	405810	5552070	1m Chip Shear Qtz Veins
LS-17R77	R77	Chip	405810	5552070	1m Chip 10cm Qtz Vein Unconformable in Shear Zone
LS-17R78	R78	Chip	405810	5552070	1m Chip Shear Breccia Minor Qtz Veins and Rust
LS-17R79	R79	Chip	405810	5552070	1m Chip Rusty Breccia Zone
LS-17R80	R80	Chip	405810	5552070	1m Chip Shear Zone Qtz Carb Altered
LS-17R81	R81	Chip	405810	5552070	1m Chip Shear Zone Rubble Qtz Carb Altered
LS-17R82	R82	Chip	405810	5552070	1m Chip Altered Shear Rusty Qtz Carb Qtz Carb Cross Veins Near old 7687 Sample
LS-17R83	R83	Chip	405810	5552070	1m Chip Qtz Vein in Shear
LS-17R84	R84	Chip	405803	5552076	1m Chip Shear Rubble Qtz Carb Altered Meda Seds
LS-17R85	R85	Chip	405808	5552094	1m Chip Shear Rubble Minor Diss Py in Meta Seds
LS-17R86	R86	Chip	405808	5552094	1m Chip Shear Crush Zone Faulted Sheard Meda Seds Minor Rust

Rock Sample	Label Name	Sample Type	Easting	Northing	Description
LS-17R87	R87	Chip	405808	5552094	1m Chip Rusty Shear Seds Rusty Qtz Shards Vein 5cm Vuggy
LS-17R88	R88	Chip	405800	5552102	1m Chip Shear Zone Rubble Qtz Carb Altered Minor Rust
LS-17R89	R89	Chip	405800	5552102	1m Chip Shear Zone Minor Qtz Vein
LS-17R90	R90	Chip	405800	5552102	1m Chip Shear Zone Rubble in Road Cut
LS-17S01	S01	Silt	408392	5553749	Silt Creek
LS-17S02	S02	Silt	408475	5553773	Silt Creek
LS-17S03	S03	Silt	408993	5553734	Silt Creek
LS-17S04	S04	Silt	409045	5553751	Silt Creek
LS-17S05	S05	Silt	409125	5553809	Moss Mat
LS-17S06	S06	Silt	409287	5553872	Silt Creek
LS-17S07	S07	Silt	410120	5554102	Silt Creek
LS-17S08	S08	Silt	407533	5553592	Silt Creek
LS-17S09	S09	Silt	407513	5553616	Silt Creek Rusty Qtz Float
LS-17S10	S10	Silt	407516	5553671	Silt Creek
LS-17S11	S11	Silt	407519	5553728	Silt Creek
LS-17S12	S12	Silt	407520	5553832	Silt Creek
LS-17S13	S13	Silt	407521	5553475	Silt Creek
LS-17S14	S14	Silt	407490	5553398	Silt Creek
LS-17S15	S15	Silt	407494	5553339	Silt Creek
LS-17S16	S16	Silt	407454	5553287	Silt Creek
WB-17S01	WB-01	Silt	408548	5547985	Silt Barnes Creek
LS-17PC01	PC01	Pco	407528	5553543	Sluice Creek 20 Shovels Full
LS-17PC02	PC02	PCo	407432	5553235	Sluice Creek 20 Shovels Full
LS-17-31 SS	SS31	Soil	404799	5554154	Red Soil in Shear Zone

APPENDIX V

ASSAY CERTIFICATES



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CERTIFICATE VA17167208

Project: LODE STAR

This report is for 29 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
CRU-21	Crush entire sample >70% -6 mm
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Ag-OG46	Ore Grade Ag - Aqua Regia	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

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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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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17167208

Sample Description	Method Analyte Units LOR	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	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
LS-17R01		1.66	1.77	0.90	24.9	<0.02	<10	20	0.31	0.19	0.78	0.28	14.40	110.5	15	0.23
LS-17R02		1.38	0.21	1.52	3.4	<0.02	<10	50	0.20	0.05	1.00	0.22	13.20	14.5	32	0.55
LS-17R03		0.82	0.40	1.45	2.0	<0.02	<10	50	0.29	0.35	0.65	0.19	13.60	15.5	25	0.49
LS-17R04		1.00	0.19	1.40	14.0	0.02	<10	70	0.16	0.09	0.43	0.08	15.50	10.0	36	1.12
LS-17R05		1.12	0.96	0.65	79.1	<0.02	<10	50	0.60	0.16	0.53	0.19	15.50	28.3	19	0.37
LS-17R06		1.52	0.63	0.10	31.6	0.23	<10	10	0.06	0.19	0.02	0.35	6.54	1.5	9	0.31
LS-17R07		1.48	1.89	1.15	22.7	<0.02	<10	50	0.33	0.15	0.81	0.25	17.80	59.1	22	0.53
LS-17R08		0.60	0.53	0.68	0.9	<0.02	<10	170	0.17	0.09	0.05	0.03	12.10	1.4	15	0.23
LS-17R09		0.88	0.52	2.71	0.8	<0.02	<10	140	0.22	0.04	1.27	0.13	10.70	11.9	82	0.22
LS-17R10		0.98	0.28	0.07	1.1	<0.02	<10	10	<0.05	0.02	0.09	0.14	1.35	2.0	17	0.07
LS-17R11		1.04	0.04	0.09	13.1	<0.02	<10	40	<0.05	0.01	17.00	0.10	20.5	7.1	16	<0.05
LS-17R12		0.52	2.83	2.32	2230	0.50	<10	40	0.26	1.13	0.82	0.20	7.78	7.2	39	1.68
LS-17R13		1.04	1.93	4.16	50.0	0.22	<10	<10	1.16	0.15	5.26	0.17	10.10	11.4	39	0.07
LS-17R14		0.88	1.61	1.36	34.2	<0.02	<10	60	0.32	0.10	0.85	0.29	12.85	46.2	24	0.56
LS-17R15		0.74	1.59	0.63	23.3	<0.02	<10	20	0.23	0.25	0.74	0.35	8.20	31.0	19	0.17
LS-17R16		1.24	>100	0.14	94.0	>25.0	<10	10	0.06	2.51	0.42	6.40	0.91	1.0	10	0.09
LS-17R17		1.08	>100	0.44	72.8	23.1	<10	<10	0.07	2.69	0.33	9.96	0.28	0.4	7	0.38
LS-17R18		0.76	8.67	0.68	16.8	3.40	<10	20	0.15	0.33	0.33	0.44	3.20	2.9	11	0.56
LS-17R19		0.88	2.81	0.42	12.7	0.27	<10	10	0.09	0.13	0.30	0.26	2.83	1.8	14	0.25
LS-17R20		0.88	3.73	1.83	44.4	1.58	<10	40	0.26	0.17	0.93	0.67	4.66	4.8	13	1.29
LS-17R21		1.48	1.65	1.24	5.7	<0.02	10	10	0.35	0.10	1.40	0.18	8.95	10.6	78	0.09
LS-17R22		1.08	0.84	1.17	67.5	<0.02	<10	130	0.43	0.29	0.37	1.13	22.4	4.4	13	0.39
LS-17R23		0.96	0.57	0.04	3.9	<0.02	<10	10	<0.05	0.02	0.13	0.51	1.00	0.9	10	<0.05
LS-17R24		0.82	0.21	0.14	3.0	<0.02	<10	10	0.05	0.11	0.02	0.13	1.36	2.6	14	0.05
LS-17R25		0.78	0.24	0.04	3.5	<0.02	<10	10	<0.05	0.03	0.06	0.66	0.77	1.5	15	<0.05
LS-17R26		0.82	0.41	0.26	3.4	<0.02	<10	60	0.10	0.93	0.13	0.14	4.04	11.9	15	0.19
LS-17R27		1.04	0.57	1.26	3.7	<0.02	<10	30	0.11	0.08	0.68	0.14	9.87	7.9	14	0.15
LS-17R28		1.02	1.80	1.49	41.9	<0.02	<10	60	0.19	0.09	0.34	0.19	10.15	35.2	16	0.53
LS-17R29		0.84	0.82	1.41	6.5	<0.02	<10	70	0.12	0.05	0.42	0.09	6.59	13.1	13	0.24



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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17167208

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
LS-17R01		875	11.45	3.72	0.15	0.14	0.01	0.014	0.06	7.0	6.9	0.45	289	7.64	0.02	0.31
LS-17R02		86.5	3.27	5.69	0.15	0.21	0.01	0.024	0.16	6.5	10.7	0.82	382	0.89	0.12	0.34
LS-17R03		108.0	5.58	7.27	0.17	0.23	0.03	0.033	0.10	6.2	8.9	0.88	823	0.34	0.06	0.61
LS-17R04		43.0	3.42	6.57	0.12	0.10	0.02	0.019	0.15	7.9	11.8	0.96	505	0.85	0.06	0.29
LS-17R05		426	8.43	2.77	0.19	0.14	0.01	0.039	0.07	8.1	4.1	0.39	471	3.96	0.02	0.29
LS-17R06		7.2	0.81	0.37	0.07	0.03	0.01	<0.005	0.03	3.3	0.7	0.03	407	2.98	0.01	<0.05
LS-17R07		755	8.25	4.33	0.17	0.15	0.02	0.012	0.14	9.2	12.8	0.54	255	6.47	0.06	0.23
LS-17R08		25.8	2.14	2.63	0.09	0.04	0.02	0.020	0.20	7.0	4.0	0.27	140	2.75	0.03	<0.05
LS-17R09		85.0	7.00	8.04	0.15	0.36	<0.01	0.012	0.16	4.8	22.2	1.67	616	0.44	0.02	0.15
LS-17R10		15.6	1.43	0.21	0.07	0.04	<0.01	<0.005	0.02	0.8	0.6	0.02	94	2.29	0.01	<0.05
LS-17R11		5.7	0.54	0.35	0.10	0.04	0.01	0.040	0.01	10.5	1.5	0.20	747	0.95	0.01	<0.05
LS-17R12		137.0	5.42	7.00	0.13	0.06	0.03	0.020	0.17	3.9	17.1	1.05	381	1.00	0.03	0.18
LS-17R13		29.8	3.81	16.70	1.11	0.32	0.08	0.030	<0.01	5.2	5.3	0.34	361	0.93	0.01	0.09
LS-17R14		830	8.91	4.28	0.15	0.22	0.01	0.017	0.16	6.9	15.6	0.61	306	4.44	0.06	0.20
LS-17R15		488	9.57	2.35	0.17	0.31	0.01	0.008	0.05	5.1	2.3	0.20	185	2.79	0.04	0.29
LS-17R16		303	0.75	0.32	0.06	0.03	0.93	0.025	0.02	0.5	1.0	0.08	114	0.98	0.01	<0.05
LS-17R17		502	0.41	0.80	0.07	0.03	1.52	0.138	0.02	0.2	0.3	0.01	40	0.89	0.01	<0.05
LS-17R18		24.5	1.06	2.11	0.09	0.06	0.37	0.016	0.08	1.7	4.6	0.27	211	0.83	0.02	0.12
LS-17R19		14.4	0.83	1.31	0.09	0.04	0.04	0.007	0.04	1.7	3.5	0.20	278	4.28	0.01	0.06
LS-17R20		22.5	1.81	4.97	0.12	0.10	0.03	0.014	0.17	2.2	11.0	0.64	295	0.92	0.02	0.12
LS-17R21		132.5	3.08	5.05	0.22	0.26	0.06	0.009	0.03	4.4	6.2	0.37	223	2.09	0.01	0.44
LS-17R22		22.6	5.23	4.78	0.11	0.34	0.04	0.039	0.24	13.0	13.4	0.52	453	0.87	0.04	0.42
LS-17R23		71.9	0.48	0.14	0.06	0.03	0.02	0.006	0.01	0.5	0.4	0.01	111	1.24	0.01	<0.05
LS-17R24		28.3	1.02	0.45	0.07	0.03	<0.01	0.005	0.01	0.4	2.2	0.09	251	1.55	<0.01	<0.05
LS-17R25		4.1	0.50	0.12	0.07	0.05	0.01	<0.005	0.01	0.4	0.4	0.01	99	1.86	0.01	<0.05
LS-17R26		51.6	2.66	1.37	0.08	0.03	<0.01	0.014	0.04	2.6	3.3	0.12	218	1.66	<0.01	<0.05
LS-17R27		128.5	4.57	5.46	0.15	0.14	0.01	0.022	0.05	4.9	11.5	0.72	308	0.98	0.05	0.33
LS-17R28		319	8.38	5.22	0.15	0.11	0.02	0.024	0.15	5.4	15.1	1.03	582	2.39	0.03	0.30
LS-17R29		194.0	5.70	4.98	0.11	0.09	0.01	0.024	0.12	3.2	16.6	1.04	456	1.70	0.04	0.16



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 5-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17167208

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
LS-17R01		50.1	1320	1.5	3.8	0.005	6.31	5.03	3.9	7.1	0.2	43.5	<0.01	0.70	1.4	0.080
LS-17R02		16.5	1080	1.7	7.7	0.001	0.58	1.05	4.9	2.7	0.5	55.5	<0.01	0.07	1.3	0.211
LS-17R03		9.0	840	10.4	5.7	<0.001	0.14	4.82	8.6	1.7	1.1	38.8	<0.01	0.16	1.5	0.252
LS-17R04		8.1	810	2.1	7.2	<0.001	0.62	20.0	8.6	0.7	0.6	28.2	0.01	0.25	2.7	0.222
LS-17R05		15.8	1240	3.2	4.5	0.004	1.27	13.10	3.1	15.3	0.2	43.4	<0.01	0.25	2.4	0.042
LS-17R06		1.8	30	22.0	1.4	<0.001	0.10	8.18	0.6	0.3	<0.2	2.7	<0.01	0.10	0.3	<0.005
LS-17R07		35.3	1600	3.3	7.3	0.022	5.95	5.48	3.1	10.1	<0.2	61.5	<0.01	0.55	1.6	0.124
LS-17R08		3.3	790	6.6	5.4	0.005	0.10	0.79	1.6	4.1	<0.2	12.7	<0.01	0.02	1.1	0.005
LS-17R09		40.0	1280	2.0	3.8	<0.001	1.21	0.51	8.2	3.4	0.4	48.9	<0.01	0.18	0.8	0.249
LS-17R10		5.6	60	0.6	0.7	<0.001	0.05	0.13	0.4	2.5	<0.2	5.8	<0.01	0.01	0.2	<0.005
LS-17R11		30.7	500	2.4	0.2	<0.001	0.02	4.00	5.2	1.2	<0.2	2230	<0.01	0.02	<0.2	<0.005
LS-17R12		11.8	670	24.5	8.3	<0.001	0.27	33.9	7.7	5.3	0.4	59.2	<0.01	1.19	0.8	0.146
LS-17R13		13.4	1010	3.5	0.2	<0.001	0.17	46.4	10.6	2.5	0.5	15.1	<0.01	0.10	1.2	0.173
LS-17R14		26.9	1500	2.8	8.6	0.014	4.54	5.53	4.3	7.5	0.2	78.0	<0.01	0.46	1.3	0.168
LS-17R15		33.1	1030	1.5	2.2	0.008	4.70	1.99	2.6	19.4	0.2	40.6	<0.01	0.51	0.8	0.106
LS-17R16		1.5	30	268	0.6	<0.001	0.18	238	0.4	0.7	<0.2	9.5	<0.01	0.38	<0.2	<0.005
LS-17R17		0.7	10	375	0.5	<0.001	0.13	645	0.6	1.8	<0.2	21.6	<0.01	0.29	<0.2	<0.005
LS-17R18		3.2	180	68.5	2.3	<0.001	0.07	2.02	1.9	0.5	<0.2	20.9	<0.01	0.27	0.4	0.038
LS-17R19		3.6	660	36.4	1.2	<0.001	0.06	2.22	1.2	0.4	<0.2	16.5	<0.01	0.14	0.2	0.013
LS-17R20		4.5	360	41.0	4.8	<0.001	0.05	2.07	2.9	0.3	<0.2	59.2	<0.01	0.37	0.8	0.055
LS-17R21		25.7	1450	3.7	0.7	0.004	0.50	1.38	4.3	4.4	0.3	52.4	<0.01	0.06	1.0	0.240
LS-17R22		5.3	1260	39.8	7.5	<0.001	0.12	1.72	5.1	4.8	0.7	61.6	0.01	0.17	3.0	0.142
LS-17R23		4.5	40	0.9	0.4	<0.001	0.05	0.68	0.3	1.1	<0.2	10.8	<0.01	<0.01	<0.2	<0.005
LS-17R24		5.9	50	1.6	0.5	<0.001	0.06	0.29	0.4	1.0	<0.2	1.2	<0.01	0.02	<0.2	<0.005
LS-17R25		5.5	270	1.8	0.3	<0.001	0.01	0.85	0.5	0.4	<0.2	15.1	<0.01	<0.01	0.2	<0.005
LS-17R26		13.9	570	4.5	2.1	<0.001	1.08	0.58	0.6	2.6	0.2	5.3	<0.01	0.09	0.8	<0.005
LS-17R27		4.4	1180	4.9	2.0	<0.001	0.27	2.58	3.6	4.6	0.4	96.2	<0.01	0.10	1.1	0.141
LS-17R28		15.1	1090	2.5	5.3	0.005	3.57	6.64	4.5	17.3	0.3	31.5	<0.01	0.39	1.2	0.096
LS-17R29		7.0	1110	1.9	4.2	0.002	1.24	1.24	3.6	6.7	0.3	47.0	<0.01	0.12	0.4	0.087



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 5-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS	VA17167208
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Sample Description	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46	Au-GRA21
	TI	U	V	W	Y	Zn	Zr	Ag	Au
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.02	0.05	1	0.05	0.05	2	0.5	1	0.05
LS-17R01	0.13	0.51	66	0.67	5.68	38	3.0		
LS-17R02	0.07	0.45	88	0.59	9.47	58	5.3		
LS-17R03	0.19	0.53	98	0.90	10.00	61	6.0		
LS-17R04	0.13	0.93	88	0.43	6.93	33	2.3		
LS-17R05	0.12	0.72	34	7.27	6.07	30	5.2		
LS-17R06	0.02	0.08	5	0.08	1.14	10	<0.5		
LS-17R07	0.16	0.65	78	0.29	6.81	37	3.1		
LS-17R08	0.19	0.29	19	0.08	2.36	37	1.2		
LS-17R09	0.05	0.27	130	0.21	11.40	79	8.4		
LS-17R10	<0.02	0.13	3	<0.05	0.99	18	0.5		
LS-17R11	<0.02	0.14	3	<0.05	19.45	6	0.9		
LS-17R12	0.32	0.41	105	0.43	6.78	42	1.2		
LS-17R13	0.17	0.58	116	1.23	8.66	69	12.0		
LS-17R14	0.15	0.64	89	1.28	6.32	42	5.5		
LS-17R15	0.04	0.78	40	0.34	7.03	26	9.2		
LS-17R16	<0.02	<0.05	1	0.10	0.60	127	<0.5	339	21.7
LS-17R17	<0.02	<0.05	1	<0.05	0.16	148	<0.5	663	
LS-17R18	0.02	0.13	20	0.26	2.38	40	1.4		
LS-17R19	0.03	0.20	13	0.66	2.61	14	0.7		
LS-17R20	0.05	0.25	34	0.44	3.68	69	2.5		
LS-17R21	0.06	0.53	62	0.48	8.76	23	5.6		
LS-17R22	0.08	0.56	48	0.34	6.85	83	11.8		
LS-17R23	0.02	0.06	2	<0.05	0.92	31	<0.5		
LS-17R24	0.02	0.07	3	<0.05	0.66	7	<0.5		
LS-17R25	<0.02	0.11	3	<0.05	0.95	57	1.1		
LS-17R26	0.04	0.09	9	<0.05	2.99	6	<0.5		
LS-17R27	0.04	0.37	60	0.46	6.86	51	2.9		
LS-17R28	0.31	0.43	83	0.29	7.54	64	2.3		
LS-17R29	0.12	0.21	70	0.33	6.97	69	1.8		



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 5-SEP-2017
Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17167208

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.

Ag-OG46	Au-GRA21	CRU-21	CRU-QC
LOG-22	ME-MS41	ME-OG46	PUL-31
PUL-QC	SPL-21	WEI-21	



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Page: 1
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
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CERTIFICATE VA17173169

Project: LODE STAR

This report is for 17 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
CRU-21	Crush entire sample >70% -6 mm
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

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

To: RICH RIVER EXPLORATION LTD.
 ATTN: ALS GEOCHEMISTRY

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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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173169

Sample Description	Method Analyte Units LOR	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	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	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
LS-17R64		1.36	0.22	1.60	10.2	<0.02	90	110	0.33	0.04	1.09	0.14	19.95	10.3	6	1.13
LS-17R65		2.56	0.21	2.44	39.4	0.02	120	80	0.51	0.04	1.46	0.24	18.00	12.0	7	2.16
LS-17R66		1.76	0.20	1.69	12.2	<0.02	500	40	0.46	0.03	1.46	0.15	13.80	9.0	5	1.48
LS-17R67		1.86	0.27	1.94	24.9	<0.02	190	60	0.47	0.09	1.21	0.21	17.85	10.9	5	1.44
LS-17R68		2.32	0.32	1.69	8.4	<0.02	50	80	0.23	0.08	1.37	0.17	15.80	13.4	6	1.17
LS-17R69		2.50	0.28	3.01	20.9	<0.02	130	110	0.62	0.05	2.06	0.21	19.55	13.4	11	2.88
LS-17R70		3.20	0.16	1.68	26.5	<0.02	560	70	0.62	0.25	1.35	0.20	10.30	6.4	5	0.71
LS-17R71		1.62	0.14	2.24	4.3	<0.02	10	210	0.19	0.03	1.04	0.11	22.7	15.3	9	1.62
LS-17R72		1.64	0.09	2.68	5.9	<0.02	40	270	0.27	0.03	1.40	0.11	20.2	13.3	17	1.81
LS-17R73		1.16	0.14	3.01	5.9	<0.02	10	280	0.27	0.05	1.54	0.15	17.70	15.9	13	1.75
LS-17R74		1.76	0.29	3.09	21.7	0.02	<10	60	0.55	0.05	2.05	0.31	23.3	17.4	13	2.25
LS-17R75		3.56	0.54	2.36	105.0	<0.02	<10	70	0.40	0.21	1.59	0.46	15.30	30.9	34	2.11
LS-17R76		1.90	0.24	2.38	10.2	<0.02	10	140	0.24	0.06	1.41	0.17	15.00	17.4	29	1.43
LS-17R77		2.18	0.22	2.66	19.4	<0.02	10	80	0.39	0.04	1.66	0.19	18.25	13.1	8	1.86
LS-17R78		1.90	0.16	2.79	20.0	<0.02	<10	200	0.26	0.10	1.43	0.16	24.8	15.9	13	2.63
LS-17R79		2.78	0.33	2.43	85.3	0.03	<10	90	0.46	0.12	1.59	0.31	23.1	17.7	13	1.96
LS-17R80		1.52	0.19	3.26	47.0	0.03	<10	210	0.47	0.30	1.64	0.13	22.9	16.4	39	1.94



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173169

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
LS-17R64		37.4	3.45	6.72	0.17	0.11	0.01	0.019	0.15	9.9	15.1	0.64	521	0.69	0.10	0.32
LS-17R65		47.3	4.00	9.60	0.20	0.08	0.01	0.018	0.19	8.7	21.2	0.86	577	0.70	0.07	0.33
LS-17R66		47.7	2.60	4.68	0.17	0.10	0.01	0.011	0.10	6.7	9.3	0.38	543	0.54	0.06	0.28
LS-17R67		58.6	3.92	7.92	0.17	0.07	0.01	0.016	0.14	8.6	19.4	0.74	569	0.59	0.07	0.51
LS-17R68		81.8	3.97	6.24	0.13	0.12	0.02	0.017	0.16	7.4	11.1	0.56	460	0.65	0.09	0.37
LS-17R69		45.9	4.12	10.50	0.22	0.08	0.02	0.016	0.20	9.5	18.5	0.77	557	0.55	0.07	0.31
LS-17R70		27.7	2.49	5.14	0.14	0.06	0.01	0.013	0.12	4.8	11.0	0.46	826	0.33	0.06	0.31
LS-17R71		50.3	4.75	7.79	0.13	0.08	0.01	0.014	0.40	10.9	24.3	1.09	516	0.33	0.10	0.29
LS-17R72		29.4	3.78	10.10	0.21	0.07	0.01	0.018	0.46	10.2	24.6	1.07	553	0.21	0.11	0.36
LS-17R73		53.0	4.19	8.47	0.13	0.10	0.01	0.014	0.49	8.4	24.9	1.16	604	0.38	0.21	0.29
LS-17R74		36.5	3.99	10.40	0.16	0.11	0.01	0.018	0.19	11.3	25.6	1.00	547	0.52	0.09	0.42
LS-17R75		102.5	5.45	7.01	0.10	0.13	0.02	0.018	0.22	8.3	13.8	0.64	448	3.50	0.12	0.25
LS-17R76		50.5	3.64	7.37	0.12	0.10	0.01	0.014	0.27	7.3	16.2	0.92	447	0.78	0.15	0.28
LS-17R77		32.6	3.27	9.10	0.17	0.06	0.02	0.017	0.17	8.5	17.4	0.90	415	0.39	0.06	0.28
LS-17R78		35.4	4.21	11.10	0.17	0.10	<0.01	0.019	0.41	11.6	23.2	1.23	534	0.39	0.12	0.35
LS-17R79		47.6	3.83	8.73	0.16	0.13	0.01	0.024	0.22	11.5	17.4	0.84	643	0.54	0.08	0.45
LS-17R80		44.6	4.16	10.20	0.20	0.10	0.01	0.022	0.44	11.3	26.7	1.22	693	0.27	0.19	0.33



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173169

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
LS-17R64		6.4	1250	2.2	4.9	<0.001	0.47	1.02	5.0	1.9	0.3	95.2	0.01	0.05	2.0	0.147
LS-17R65		7.2	1190	2.6	6.5	<0.001	0.38	0.88	5.7	1.7	0.2	135.5	0.01	0.05	1.9	0.149
LS-17R66		4.7	910	1.4	3.5	<0.001	0.45	0.73	3.4	1.7	0.3	95.6	<0.01	0.05	1.4	0.128
LS-17R67		5.9	1100	2.0	5.1	<0.001	0.49	1.35	5.0	2.5	0.2	83.7	0.01	0.06	1.8	0.155
LS-17R68		4.9	1180	2.0	6.2	0.001	1.06	1.13	4.5	3.0	0.3	85.6	0.01	0.07	1.6	0.185
LS-17R69		6.5	1240	3.0	7.0	<0.001	0.41	1.47	5.7	2.5	0.3	206	<0.01	0.06	2.0	0.181
LS-17R70		3.7	650	1.8	4.3	<0.001	0.22	1.07	4.2	1.0	0.2	128.5	0.01	0.03	1.1	0.120
LS-17R71		7.0	1410	1.6	14.2	<0.001	0.56	0.35	5.4	1.8	0.3	71.3	<0.01	0.03	2.4	0.207
LS-17R72		10.6	990	2.7	13.8	<0.001	0.19	0.42	6.8	1.0	0.5	122.5	0.01	0.03	2.2	0.247
LS-17R73		9.7	1240	2.1	17.4	<0.001	0.32	0.37	4.6	1.2	0.4	180.5	0.01	0.06	2.0	0.257
LS-17R74		12.1	1380	2.5	8.7	<0.001	0.22	1.60	5.7	2.2	0.4	180.0	<0.01	0.07	2.6	0.212
LS-17R75		79.3	1240	3.1	13.5	0.007	1.32	2.46	3.3	8.2	0.3	281	<0.01	0.14	1.8	0.160
LS-17R76		17.6	1110	2.7	11.2	0.002	0.70	0.97	4.5	3.0	0.4	191.5	0.01	0.08	1.7	0.219
LS-17R77		8.1	1060	4.2	6.2	<0.001	0.16	1.05	5.0	1.7	0.3	142.5	<0.01	0.06	2.1	0.155
LS-17R78		11.4	1210	2.7	17.4	<0.001	0.28	0.37	5.3	1.6	0.4	216	0.01	0.03	2.8	0.258
LS-17R79		14.5	1120	3.2	8.5	<0.001	0.25	1.38	4.8	1.3	0.4	147.0	<0.01	0.05	2.6	0.214
LS-17R80		21.3	610	3.8	16.4	<0.001	0.10	0.80	5.9	1.0	0.5	243	0.01	0.17	3.4	0.274



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
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CERTIFICATE OF ANALYSIS VA17173169

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
LS-17R64		0.11	0.60	75	0.34	11.90	45	2.3
LS-17R65		0.13	0.33	91	0.28	11.10	61	2.0
LS-17R66		0.06	0.31	49	0.28	8.08	39	2.2
LS-17R67		0.10	0.39	80	0.35	11.10	58	2.0
LS-17R68		0.17	0.31	77	0.33	9.46	47	2.8
LS-17R69		0.15	0.41	97	0.35	10.70	58	2.2
LS-17R70		0.09	0.26	56	0.36	5.98	47	1.7
LS-17R71		0.23	0.41	115	0.27	13.20	71	2.0
LS-17R72		0.19	0.45	105	0.27	12.15	58	1.8
LS-17R73		0.25	0.36	114	0.33	10.75	68	2.3
LS-17R74		0.12	0.46	99	0.53	12.40	67	3.1
LS-17R75		0.28	0.70	91	0.70	9.29	60	4.1
LS-17R76		0.19	0.37	96	0.45	10.50	58	2.6
LS-17R77		0.12	0.34	88	0.37	10.25	51	2.0
LS-17R78		0.28	0.48	114	0.37	11.85	66	2.3
LS-17R79		0.17	0.52	89	0.42	12.35	60	3.6
LS-17R80		0.25	0.47	99	0.55	11.05	62	2.4



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-SEP-2017
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173169

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-21	LOG-22	ME-MS41	PUL-31
PUL-QC	SPL-21	WEI-21	



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CERTIFICATE VA17173171

Project: LODE STAR

This report is for 10 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test

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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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 5-SEP-2017
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173171

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
LS-17R81		1.92	0.12	2.96	99.5	0.05	110	100	0.79	0.05	1.82	0.25	20.5	11.7	16	2.22
LS-17R82		2.82	0.26	2.66	32.4	0.03	230	20	1.09	0.08	1.86	0.22	16.95	7.8	4	1.88
LS-17R83		2.48	0.16	1.87	17.6	<0.02	50	50	0.56	0.07	1.34	0.23	23.1	8.9	4	1.39
LS-17R84		2.24	0.15	2.74	12.4	<0.02	<10	110	0.37	0.08	1.54	0.15	15.05	13.8	26	2.06
LS-17R85		1.42	0.13	2.34	5.9	<0.02	<10	160	0.22	0.04	1.14	0.15	13.80	12.3	21	1.39
LS-17R86		1.48	0.14	2.52	57.8	<0.02	<10	130	0.26	0.06	1.11	0.13	15.60	13.3	19	1.61
LS-17R87		1.70	0.19	2.44	5.9	<0.02	20	90	0.32	0.04	1.27	0.15	14.75	13.0	17	1.60
LS-17R88		1.60	0.20	1.91	2.7	<0.02	<10	50	0.33	0.04	1.22	0.17	12.90	13.4	33	1.10
LS-17R89		1.90	0.18	2.93	15.3	<0.02	<10	70	0.46	0.03	1.61	0.13	13.20	15.3	29	1.74
LS-17R90		1.24	0.17	2.60	29.8	<0.02	<10	120	0.31	0.03	1.23	0.15	13.95	13.1	20	1.48



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 5-SEP-2017
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173171

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
LS-17R81		28.3	3.53	11.70	0.23	0.09	0.01	0.016	0.22	10.2	25.9	0.93	828	0.46	0.06	0.30
LS-17R82		38.4	2.63	8.60	0.22	0.09	0.02	0.014	0.10	8.3	13.1	0.41	683	0.93	0.04	0.31
LS-17R83		30.4	2.65	7.57	0.19	0.14	0.01	0.015	0.13	12.2	14.4	0.47	678	0.32	0.07	0.42
LS-17R84		32.4	3.51	10.70	0.20	0.11	0.01	0.014	0.25	7.7	27.5	1.12	594	0.64	0.08	0.19
LS-17R85		30.4	3.12	7.44	0.11	0.09	0.01	0.011	0.29	6.5	22.6	0.91	419	1.21	0.13	0.42
LS-17R86		33.5	3.79	9.40	0.13	0.10	0.01	0.018	0.25	7.5	27.9	1.19	489	0.66	0.08	0.34
LS-17R87		43.4	3.67	9.45	0.15	0.10	0.01	0.012	0.17	7.3	25.8	1.04	425	0.76	0.05	0.27
LS-17R88		46.4	2.55	6.64	0.12	0.13	0.01	0.010	0.12	6.8	17.4	0.66	289	0.90	0.07	0.31
LS-17R89		39.7	3.42	9.38	0.12	0.12	0.01	0.013	0.14	7.0	30.7	1.13	492	0.61	0.06	0.25
LS-17R90		35.2	3.71	9.05	0.12	0.11	0.01	0.014	0.19	7.1	28.4	1.19	478	0.56	0.09	0.23

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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 5-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173171

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	0.2	0.01	0.01	0.2	0.005
LS-17R81		12.0	1070	4.8	8.6	<0.001	0.06	1.19	5.0	0.7	0.4	141.0	0.01	0.02	2.9	0.182	
LS-17R82		4.7	900	4.3	3.5	<0.001	0.07	1.19	5.1	0.9	0.2	92.4	0.01	0.04	2.3	0.117	
LS-17R83		4.5	1160	4.1	6.3	<0.001	0.06	0.74	4.7	0.7	0.3	68.6	0.01	0.02	3.4	0.148	
LS-17R84		18.0	1220	2.7	9.6	0.002	0.11	1.01	5.4	0.9	0.3	113.0	<0.01	0.02	1.7	0.201	
LS-17R85		13.5	1120	1.9	11.0	0.001	0.17	0.57	4.0	1.1	0.3	98.1	<0.01	0.03	1.4	0.178	
LS-17R86		11.7	1200	2.0	9.9	0.001	0.21	0.38	5.5	1.3	0.3	77.6	<0.01	0.04	1.5	0.181	
LS-17R87		10.9	1080	2.2	6.7	0.003	0.37	0.28	4.7	2.0	0.2	108.0	<0.01	0.04	1.4	0.172	
LS-17R88		20.8	1140	2.4	4.4	0.001	0.17	0.80	3.5	1.1	0.3	123.0	<0.01	0.03	1.2	0.166	
LS-17R89		17.6	1140	2.6	5.0	0.001	0.09	1.15	4.6	1.1	0.3	214	<0.01	0.03	1.2	0.154	
LS-17R90		12.4	1170	2.1	6.3	0.001	0.15	0.84	4.7	1.1	0.2	132.5	<0.01	0.03	1.3	0.173	

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Page: 2 - D
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173171

	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
LS-17R81		0.13	0.51	101	0.30	9.95	66	2.9
LS-17R82		0.11	0.44	56	0.25	8.87	42	3.1
LS-17R83		0.12	0.69	67	0.26	10.55	51	4.8
LS-17R84		0.16	0.55	109	0.31	10.55	74	2.9
LS-17R85		0.19	0.45	92	0.22	9.68	59	2.3
LS-17R86		0.19	0.48	110	0.32	10.55	67	2.4
LS-17R87		0.14	0.49	98	0.23	10.65	61	2.6
LS-17R88		0.11	0.60	65	0.20	9.48	39	3.2
LS-17R89		0.09	0.46	96	0.27	10.40	65	2.9
LS-17R90		0.14	0.45	100	0.21	9.86	66	2.6



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 5-SEP-2017
Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173171

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-21 CRU-QC LOG-22 ME-MS41
PUL-31 SPL-21 WEI-21



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Page: 1
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CERTIFICATE VA17173174

Project: LODE STAR

This report is for 34 Rock samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-21	Crush entire sample >70% -6 mm
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Aq-OG46	Ore Grade Ag - Aqua Regia	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

To: RICH RIVER EXPLORATION LTD.
 ATTN: ALS GEOCHEMISTRY

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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Page: 2 - A
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 Plus Appendix Pages
 Finalized Date: 6-SEP-2017
 Account: RCHRIV

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CERTIFICATE OF ANALYSIS VA17173174

Sample Description	Method Analyte Units LOR	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	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
LS-17R30		0.34	>100	0.34	110.0	0.22	<10	30	0.17	0.13	0.08	0.23	3.56	2.1	7	0.18
LS-17R31		1.04	0.48	1.19	1.2	<0.02	<10	150	0.24	0.06	1.19	0.19	17.25	20.9	23	0.63
LS-17R32		1.00	1.01	0.72	2.3	<0.02	<10	90	0.24	0.33	0.78	0.17	7.39	24.2	27	0.70
LS-17R33		1.04	2.02	0.83	1.8	<0.02	<10	40	0.16	0.26	1.08	0.30	10.55	112.0	35	0.30
LS-17R34		0.80	0.61	2.14	0.6	<0.02	<10	160	0.18	0.11	0.40	0.15	11.05	17.6	23	0.64
LS-17R35		0.94	0.25	0.75	4.6	<0.02	<10	190	0.10	0.03	0.77	0.18	16.20	7.2	23	0.56
LS-17R36		0.68	1.99	0.17	194.0	0.11	<10	20	<0.05	2.99	0.05	0.29	2.95	1.7	6	0.10
LS-17R37		0.72	0.28	2.54	2.7	<0.02	<10	50	0.52	2.32	1.88	0.18	4.17	17.9	7	1.35
LS-17R38		1.04	0.49	2.62	0.5	<0.02	<10	30	0.76	0.17	1.78	0.94	6.12	6.3	13	0.22
LS-17R39		1.12	0.24	0.11	1.7	<0.02	<10	10	0.06	0.14	0.04	<0.06	1.55	2.9	6	0.21
LS-17R40		0.94	0.10	0.07	0.7	<0.02	<10	30	<0.05	0.01	0.05	0.98	1.47	0.7	6	0.08
LS-17R41		0.44	0.02	0.10	0.8	<0.02	<10	10	0.06	0.15	0.02	0.08	1.36	0.2	3	0.18
LS-17R42		0.74	0.05	3.57	25.6	<0.02	<10	90	0.71	0.06	1.80	0.15	20.9	14.2	54	2.75
LS-17R43		1.18	0.44	2.37	48.8	0.05	<10	90	0.32	0.48	1.00	0.12	19.10	12.9	54	1.33
LS-17R44		1.06	0.06	1.94	27.4	<0.02	<10	60	0.30	0.12	0.87	0.07	19.80	11.7	57	0.94
LS-17R45		1.24	0.12	3.46	42.6	0.02	<10	30	0.83	0.12	2.57	0.08	21.1	15.4	59	0.93
LS-17R46		0.78	0.05	2.64	17.5	<0.02	<10	40	0.50	0.06	1.34	0.09	19.20	12.0	52	1.11
LS-17R47		1.06	0.05	2.17	15.7	<0.02	<10	40	0.38	0.05	0.98	0.14	19.40	12.7	44	0.88
LS-17R48		1.16	0.09	2.72	31.8	<0.02	<10	40	0.61	0.07	1.40	0.18	20.3	14.6	47	1.37
LS-17R49		1.14	0.12	2.29	54.4	<0.02	<10	50	0.58	0.05	1.02	0.17	19.80	12.9	40	1.34
LS-17R50		1.32	0.10	2.24	22.4	<0.02	<10	40	0.61	0.08	1.12	0.26	19.10	12.9	46	1.00
LS-17R51		1.20	0.14	2.79	133.5	0.03	<10	50	0.64	0.06	1.32	0.26	15.90	14.9	41	1.58
LS-17R52		0.76	0.08	1.81	6.9	<0.02	<10	440	0.17	0.02	0.55	0.08	16.15	9.2	41	1.10
LS-17R53		1.02	0.06	2.92	7.8	<0.02	<10	110	0.66	0.14	1.49	0.22	19.20	13.1	53	2.50
LS-17R54		0.80	0.14	1.88	10.2	<0.02	<10	150	0.37	0.03	0.87	0.21	39.8	13.5	22	0.55
LS-17R55		0.60	7.68	0.62	833	0.56	<10	20	0.32	0.31	0.70	0.34	11.85	93.7	22	0.49
LS-17R56		0.84	0.72	1.02	192.0	0.02	<10	30	0.40	0.38	0.82	0.21	26.3	55.1	31	0.53
LS-17R57		1.18	0.11	3.58	14.1	<0.02	<10	30	0.74	0.06	1.44	0.12	18.70	15.0	67	1.45
LS-17R58		0.94	0.16	3.27	10.3	<0.02	<10	110	0.48	0.02	1.42	0.14	10.25	10.6	16	2.19
LS-17R59		0.98	0.54	1.92	178.0	<0.02	10	110	0.15	0.14	0.77	0.28	10.70	22.6	19	1.25
LS-17R60		1.44	0.60	2.67	27.4	<0.02	10	50	0.17	0.15	1.08	0.29	11.80	27.7	22	1.61
LS-17R61		1.30	0.38	2.01	3.7	<0.02	30	70	0.32	0.13	1.45	0.30	9.44	22.6	12	0.59
LS-17R62		1.34	0.31	1.41	37.3	<0.02	20	30	0.25	0.19	1.46	0.11	10.55	23.4	11	0.12
LS-17R63		1.14	0.10	1.50	33.1	<0.02	10	30	0.33	0.06	1.49	0.19	19.50	14.6	20	0.27



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 6-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173174

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	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	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
LS-17R30		152.0	1.11	1.25	0.05	0.03	0.01	0.010	0.06	1.4	5.6	0.24	229	0.64	0.01	0.17
LS-17R31		100.0	2.59	3.58	0.09	0.28	0.01	0.006	0.14	8.8	6.7	0.40	236	23.0	0.10	0.37
LS-17R32		201	4.82	2.29	0.12	0.28	0.01	0.009	0.09	4.4	1.3	0.10	108	1.19	0.04	0.25
LS-17R33		498	9.44	3.23	0.17	0.39	<0.01	0.011	0.13	4.8	8.2	0.49	380	1.18	0.05	0.39
LS-17R34		109.0	4.51	7.92	0.12	0.10	0.01	0.011	0.28	4.6	23.7	2.23	634	0.68	0.06	0.14
LS-17R35		55.2	2.08	2.79	0.12	0.30	0.01	0.013	0.24	9.1	5.6	0.48	288	0.88	0.08	0.21
LS-17R36		9.2	0.87	0.51	<0.05	0.02	0.21	0.100	0.03	1.4	1.8	0.11	168	0.40	0.02	0.05
LS-17R37		126.5	1.71	4.71	0.10	0.04	0.01	0.010	0.04	2.1	7.3	0.20	120	0.80	0.29	0.13
LS-17R38		53.0	1.48	5.44	0.11	<0.02	0.01	0.011	0.02	3.1	7.2	0.17	179	3.49	0.10	<0.05
LS-17R39		20.1	1.04	0.35	<0.05	<0.02	0.01	<0.005	0.02	0.7	2.6	0.03	62	0.69	0.03	<0.05
LS-17R40		7.7	0.58	0.21	<0.05	<0.02	0.02	<0.005	0.02	0.6	0.5	0.01	151	0.66	0.02	<0.05
LS-17R41		1.1	0.57	0.43	<0.05	<0.02	<0.01	<0.005	0.06	0.7	1.2	0.01	61	0.27	0.03	0.80
LS-17R42		29.4	3.39	11.15	0.17	0.16	0.01	0.020	0.22	10.6	18.4	1.29	551	0.14	0.10	0.34
LS-17R43		51.7	3.35	8.78	0.13	0.18	0.01	0.019	0.24	9.4	18.4	1.35	487	0.24	0.11	0.26
LS-17R44		23.5	2.84	8.12	0.14	0.25	0.01	0.020	0.15	9.8	18.6	1.26	480	0.12	0.11	0.18
LS-17R45		28.6	3.60	12.80	0.35	0.29	0.01	0.026	0.09	10.5	20.6	1.32	480	0.35	0.07	0.19
LS-17R46		24.8	2.99	9.38	0.14	0.21	<0.01	0.017	0.12	9.4	20.8	1.24	477	0.13	0.08	0.26
LS-17R47		39.4	3.22	8.68	0.14	0.22	<0.01	0.022	0.12	9.5	18.4	1.14	591	0.25	0.08	0.25
LS-17R48		60.1	3.63	10.65	0.17	0.22	0.01	0.019	0.13	10.0	18.4	1.19	571	0.48	0.07	0.34
LS-17R49		35.6	3.10	9.38	0.13	0.22	0.01	0.020	0.17	9.7	17.5	1.11	582	0.24	0.09	0.25
LS-17R50		35.6	2.95	8.96	0.15	0.24	0.01	0.021	0.12	9.2	15.2	1.03	584	0.99	0.07	0.28
LS-17R51		49.2	3.64	9.95	0.15	0.16	0.01	0.022	0.18	7.1	19.1	1.06	666	0.35	0.06	0.31
LS-17R52		26.2	3.19	6.27	0.14	0.12	<0.01	0.016	0.63	6.5	17.9	1.11	444	0.34	0.14	0.31
LS-17R53		28.3	3.41	11.70	0.16	0.11	0.01	0.018	0.29	10.2	17.8	0.97	476	0.27	0.08	0.39
LS-17R54		40.0	4.02	8.12	0.14	0.20	0.01	0.011	0.27	20.9	18.8	1.16	621	2.21	0.06	0.29
LS-17R55		456	14.50	2.77	0.21	0.29	0.20	0.024	0.11	6.3	4.4	0.29	344	28.1	0.04	0.41
LS-17R56		395	8.28	3.73	0.16	0.33	0.04	0.021	0.10	14.5	8.9	0.65	373	1.98	0.05	0.50
LS-17R57		18.1	3.82	10.95	0.16	0.20	<0.01	0.030	0.10	7.9	24.2	1.66	583	0.14	0.06	0.25
LS-17R58		32.5	2.82	12.35	0.16	0.32	0.01	0.018	0.28	5.0	31.6	2.33	393	1.65	0.04	0.18
LS-17R59		114.5	4.55	5.42	0.13	0.39	0.01	0.020	0.74	4.5	20.7	1.36	177	2.60	0.14	0.19
LS-17R60		138.0	5.18	6.49	0.14	0.32	0.01	0.018	0.96	4.9	31.6	1.82	203	2.30	0.22	0.10
LS-17R61		166.0	3.45	4.62	0.11	0.44	0.01	0.022	0.19	4.4	15.5	0.85	264	0.98	0.04	0.22
LS-17R62		116.0	2.11	3.80	0.12	0.59	0.01	0.029	0.06	5.4	4.0	0.65	254	0.59	0.04	0.13
LS-17R63		78.0	2.86	5.45	0.13	0.23	0.01	0.014	0.08	9.7	7.2	0.58	314	0.20	0.06	0.49



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Page: 2 - C
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 Plus Appendix Pages
 Finalized Date: 6-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173174

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
LS-17R30		2.4	150	6.7	1.9	<0.001	0.20	75.6	1.9	0.3	<0.2	8.5	<0.01	0.10	0.5	0.019
LS-17R31		39.4	1420	1.4	6.1	0.019	0.78	2.49	1.9	5.0	<0.2	114.5	<0.01	0.13	1.7	0.142
LS-17R32		37.3	520	1.5	5.0	0.008	1.93	8.56	1.4	16.1	0.2	193.0	<0.01	0.48	1.4	0.083
LS-17R33		20.4	1120	2.1	6.0	0.014	5.34	2.08	2.7	22.2	0.5	43.6	<0.01	0.64	1.1	0.149
LS-17R34		21.5	1330	2.9	10.1	0.003	1.52	1.64	4.1	6.6	0.3	42.5	<0.01	0.02	2.1	0.169
LS-17R35		11.8	1570	1.1	11.4	0.004	0.51	1.65	2.7	2.7	0.2	50.7	<0.01	0.04	1.2	0.182
LS-17R36		2.4	150	82.2	1.0	<0.001	0.08	20.5	0.9	0.7	<0.2	4.6	<0.01	0.03	0.2	0.007
LS-17R37		17.1	1160	3.2	2.7	0.001	0.76	0.32	2.3	3.3	1.5	318	<0.01	0.33	0.4	0.064
LS-17R38		41.8	520	3.0	1.4	0.015	0.72	0.05	2.3	4.7	0.2	148.0	<0.01	0.08	1.3	0.024
LS-17R39		10.4	140	1.6	1.6	0.001	0.35	0.43	0.5	1.3	<0.2	3.9	<0.01	0.05	0.3	<0.005
LS-17R40		3.6	190	0.5	0.7	0.001	0.02	0.99	0.5	0.3	<0.2	9.1	<0.01	<0.01	0.4	<0.005
LS-17R41		1.3	20	1.5	5.2	0.001	0.01	0.26	0.2	<0.2	<0.2	3.0	0.01	<0.01	0.8	<0.005
LS-17R42		16.9	1000	3.7	8.4	0.001	0.01	4.07	7.0	0.3	0.4	163.5	<0.01	0.02	2.3	0.255
LS-17R43		18.2	990	4.1	11.6	<0.001	0.06	6.89	6.8	0.4	0.5	59.4	0.01	0.23	2.3	0.252
LS-17R44		16.7	910	3.6	6.7	0.001	0.03	4.60	7.1	0.4	0.4	44.8	0.01	0.02	2.4	0.233
LS-17R45		18.5	990	4.3	4.2	0.001	0.26	9.43	8.3	0.9	0.5	70.2	<0.01	0.02	2.5	0.222
LS-17R46		16.2	960	4.7	5.1	<0.001	0.01	3.75	6.6	0.5	0.4	80.2	<0.01	0.02	2.4	0.215
LS-17R47		15.8	1040	5.3	5.3	<0.001	0.03	5.90	6.9	0.5	0.5	48.9	<0.01	0.03	2.1	0.256
LS-17R48		16.2	1090	5.0	5.8	0.001	0.04	14.35	7.1	0.8	0.5	75.0	0.01	0.04	2.3	0.278
LS-17R49		15.8	1040	6.0	7.8	<0.001	0.02	6.19	6.8	0.5	0.5	80.5	<0.01	0.04	2.1	0.234
LS-17R50		20.2	980	5.9	5.7	0.001	0.03	9.54	6.3	0.5	0.4	76.0	0.01	0.03	2.0	0.229
LS-17R51		21.3	1050	3.1	10.2	<0.001	0.01	11.10	7.6	0.4	0.5	84.1	<0.01	0.03	1.5	0.221
LS-17R52		10.6	760	1.3	32.3	<0.001	0.03	2.72	5.2	0.6	0.4	37.6	<0.01	0.05	2.9	0.292
LS-17R53		13.9	790	5.0	14.9	<0.001	0.04	7.21	4.9	0.4	0.4	121.5	<0.01	0.10	3.2	0.253
LS-17R54		7.0	1790	2.0	11.6	0.001	0.23	3.54	4.9	1.6	0.2	73.0	<0.01	0.03	4.6	0.187
LS-17R55		52.1	810	4.9	6.5	0.038	7.18	97.3	3.6	27.6	0.6	13.2	<0.01	0.80	1.1	0.078
LS-17R56		30.4	1610	5.5	5.4	0.003	3.25	13.45	5.6	15.5	0.4	31.5	<0.01	0.35	3.6	0.086
LS-17R57		18.4	780	6.5	4.5	<0.001	0.12	4.66	10.7	0.7	0.4	78.2	<0.01	0.04	2.5	0.201
LS-17R58		19.8	590	1.9	11.2	0.002	0.12	3.31	7.7	0.9	0.3	107.5	<0.01	0.03	1.5	0.205
LS-17R59		24.1	570	4.3	27.5	0.024	1.63	2.61	8.1	2.6	0.5	86.9	<0.01	0.05	1.7	0.252
LS-17R60		28.1	560	8.4	40.7	0.007	2.49	1.23	9.1	3.1	0.5	134.0	<0.01	0.10	1.1	0.259
LS-17R61		25.9	670	4.4	8.6	0.003	0.53	4.69	7.5	2.3	0.9	97.0	<0.01	0.03	1.5	0.173
LS-17R62		20.3	530	3.9	1.8	<0.001	0.08	9.84	6.0	1.0	0.7	33.9	<0.01	0.10	1.3	0.177
LS-17R63		15.8	1330	1.2	3.1	<0.001	0.06	4.94	3.6	1.2	0.3	67.1	<0.01	0.04	2.0	0.129



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Page: 2 - D
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 Account: RCHRIV

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46
		Tl	U	V	W	Y	Zn	Zr	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	1
LS-17R30		0.02	0.09	17	0.33	1.06	24	0.8	130
LS-17R31		0.06	0.75	52	0.23	8.55	27	7.3	
LS-17R32		0.10	0.53	15	0.56	5.55	15	8.8	
LS-17R33		0.07	1.09	58	0.64	5.93	24	11.8	
LS-17R34		0.12	0.26	105	0.15	6.72	79	1.5	
LS-17R35		0.10	0.57	96	0.21	11.60	44	6.5	
LS-17R36		0.02	0.06	8	<0.05	0.86	17	<0.5	
LS-17R37		0.03	0.58	25	0.31	3.57	15	0.6	
LS-17R38		0.03	0.78	15	0.12	5.35	15	<0.5	
LS-17R39		0.02	0.16	2	0.06	0.91	3	<0.5	
LS-17R40		0.03	0.10	4	<0.05	1.20	34	<0.5	
LS-17R41		0.04	2.17	1	<0.05	1.93	3	<0.5	
LS-17R42		0.06	0.55	112	0.39	8.40	59	4.6	
LS-17R43		0.10	0.74	115	0.69	9.14	54	4.9	
LS-17R44		0.05	0.76	100	0.53	9.02	46	5.9	
LS-17R45		0.05	1.00	113	0.71	10.10	58	9.0	
LS-17R46		0.03	0.64	101	0.41	8.71	53	6.0	
LS-17R47		0.04	0.69	114	0.56	10.65	69	5.4	
LS-17R48		0.04	1.05	127	0.58	10.55	75	5.8	
LS-17R49		0.06	0.73	107	0.67	11.65	62	5.2	
LS-17R50		0.04	0.75	103	0.51	10.10	76	5.9	
LS-17R51		0.08	0.54	117	0.70	11.00	66	3.7	
LS-17R52		0.22	0.91	110	0.16	6.65	63	2.0	
LS-17R53		0.10	0.85	110	0.50	6.15	63	2.4	
LS-17R54		0.09	0.98	119	0.19	13.10	62	4.0	
LS-17R55		1.17	0.94	43	186.5	6.31	23	10.0	
LS-17R56		0.14	1.60	71	19.90	9.91	31	8.9	
LS-17R57		0.03	0.66	111	0.61	13.15	75	6.1	
LS-17R58		0.20	0.98	75	1.25	6.51	46	9.0	
LS-17R59		0.62	1.24	115	0.35	8.63	48	7.5	
LS-17R60		0.73	0.80	128	0.32	9.53	82	5.7	
LS-17R61		0.20	1.33	61	0.59	11.35	40	11.5	
LS-17R62		0.05	1.75	41	0.36	11.50	25	19.7	
LS-17R63		0.06	0.81	54	0.95	7.39	26	7.0	



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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173174

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.

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



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CERTIFICATE VA17173225

Project: LODE STAR

This report is for 17 Silt samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES		
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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

To: RICH RIVER EXPLORATION LTD.
 ATTN: ALS GEOCHEMISTRY

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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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 31-AUG-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173225

Sample Description	Method Analyte Units LOR	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	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	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
LS-17S01		0.72	0.31	1.58	15.8	<0.02	<10	70	0.29	0.18	0.63	3.29	18.10	10.4	38	1.31
LS-17S02		0.34	0.42	1.44	18.5	<0.02	<10	80	0.25	0.18	0.60	3.85	18.75	9.9	37	1.29
LS-17S03		0.56	0.40	1.61	7.6	<0.02	<10	120	0.31	0.18	0.65	2.62	22.0	8.2	39	2.83
LS-17S04		0.66	0.28	1.65	5.2	<0.02	<10	120	0.38	0.24	0.51	1.29	16.10	9.1	36	4.31
LS-17S05		0.58	0.57	1.46	13.1	<0.02	<10	100	0.38	0.18	0.74	4.13	18.60	12.1	32	3.23
LS-17S06		0.46	0.90	1.79	8.1	<0.02	<10	110	0.43	0.19	0.65	3.13	20.7	8.4	51	4.47
LS-17S07		0.40	0.73	2.00	20.0	<0.02	<10	210	0.44	0.21	0.83	5.52	23.6	24.8	45	4.13
LS-17S08		0.68	0.40	1.92	12.5	<0.02	<10	80	0.40	0.21	0.79	4.88	17.70	12.8	38	1.67
LS-17S09		0.86	0.41	1.75	12.4	<0.02	<10	70	0.38	0.80	0.80	5.48	17.90	11.9	37	1.41
LS-17S10		0.58	0.40	1.82	17.3	<0.02	<10	70	0.31	0.14	0.71	6.52	15.25	12.5	40	1.04
LS-17S11		0.54	0.60	1.81	21.9	<0.02	<10	70	0.39	0.15	0.83	7.68	16.50	13.5	38	1.00
LS-17S12		0.72	0.66	1.64	14.9	<0.02	<10	90	0.40	0.18	0.98	10.90	17.65	12.2	38	1.26
LS-17S13		0.52	0.29	1.81	10.2	<0.02	<10	70	0.40	0.18	0.71	4.11	16.10	11.3	38	1.63
LS-17S14		0.66	0.40	2.00	24.3	<0.02	<10	90	0.45	0.20	0.82	4.07	16.25	13.5	42	2.19
LS-17S15		0.46	0.33	1.64	13.7	<0.02	<10	70	0.39	0.18	0.75	3.73	14.60	10.0	33	1.79
LS-17S16		0.78	0.33	1.83	18.3	<0.02	<10	80	0.42	0.20	0.77	3.61	14.90	11.8	38	1.97
WB-17S01		0.36	0.45	1.92	6.7	<0.02	<10	240	0.26	0.15	0.96	2.21	13.65	15.0	40	4.52



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Page: 2 - B
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 Plus Appendix Pages
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 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173225

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
LS-17S01		39.7	3.15	4.17	<0.05	<0.02	0.03	0.025	0.10	9.4	17.3	0.93	790	3.47	0.02	0.80
LS-17S02		40.2	3.15	3.63	<0.05	<0.02	0.04	0.025	0.14	9.6	15.7	0.72	739	5.14	0.02	0.71
LS-17S03		26.6	2.56	4.34	<0.05	0.02	0.03	0.028	0.18	10.3	26.5	0.92	622	2.18	0.03	1.47
LS-17S04		27.9	2.49	4.80	<0.05	<0.02	0.02	0.026	0.23	7.9	31.0	0.87	519	2.29	0.03	1.72
LS-17S05		40.9	3.14	3.95	<0.05	<0.02	0.05	0.029	0.18	9.6	23.1	0.76	946	4.16	0.02	1.07
LS-17S06		35.3	2.40	4.80	<0.05	<0.02	0.05	0.030	0.13	10.9	35.7	0.73	412	2.78	0.02	1.01
LS-17S07		49.3	4.82	5.17	<0.05	<0.02	0.06	0.037	0.14	11.5	36.0	0.97	4190	5.67	0.02	0.80
LS-17S08		46.1	3.46	4.92	<0.05	0.02	0.03	0.023	0.11	9.0	22.6	1.05	747	2.68	0.02	0.97
LS-17S09		44.4	3.24	4.68	<0.05	0.02	0.04	0.023	0.10	9.3	21.2	1.01	671	2.49	0.02	0.97
LS-17S10		49.6	3.64	4.65	<0.05	0.02	0.04	0.025	0.08	7.9	21.1	1.09	759	3.08	0.01	0.73
LS-17S11		52.3	3.64	4.48	<0.05	0.02	0.06	0.027	0.07	8.5	21.0	0.98	844	3.44	0.01	0.60
LS-17S12		46.0	3.16	4.26	<0.05	0.02	0.07	0.029	0.08	9.5	21.7	0.86	732	3.42	0.01	0.70
LS-17S13		37.2	3.16	4.72	<0.05	0.02	0.03	0.021	0.10	8.1	25.0	0.98	629	2.30	0.02	1.02
LS-17S14		47.5	3.53	5.46	<0.05	0.02	0.03	0.026	0.14	8.5	30.2	1.12	713	2.55	0.03	1.36
LS-17S15		38.3	2.72	4.33	<0.05	0.02	0.03	0.019	0.11	7.7	23.9	0.87	545	1.63	0.02	1.07
LS-17S16		40.4	3.12	5.03	<0.05	0.02	0.03	0.022	0.12	7.9	28.5	0.99	627	1.93	0.03	1.30
WB-17S01		62.7	3.49	5.82	0.05	0.02	0.06	0.030	0.24	8.7	32.0	1.03	1120	2.06	0.02	0.51



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Page: 2 - C
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 Plus Appendix Pages
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173225

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
LS-17S01		29.7	840	9.8	9.8	0.004	0.05	1.37	2.3	2.4	1.7	34.7	<0.01	0.05	1.1	0.055
LS-17S02		32.2	890	9.5	11.1	0.003	0.07	2.14	2.1	3.0	1.5	38.8	<0.01	0.04	1.0	0.041
LS-17S03		30.0	750	8.7	19.1	0.002	0.03	0.95	2.9	2.7	0.7	40.2	<0.01	0.04	1.6	0.088
LS-17S04		28.9	560	5.8	28.4	0.002	0.02	0.50	3.0	1.7	0.9	32.5	<0.01	0.05	1.2	0.105
LS-17S05		36.4	860	9.4	20.3	0.002	0.05	1.90	2.4	4.0	0.5	42.4	<0.01	0.06	0.7	0.053
LS-17S06		36.3	870	11.1	26.1	0.008	0.08	0.85	1.9	3.3	0.7	40.7	<0.01	0.03	0.3	0.066
LS-17S07		52.5	840	11.9	26.0	0.002	0.05	1.62	3.6	3.4	0.5	52.9	<0.01	0.07	0.9	0.070
LS-17S08		35.5	930	8.7	10.3	0.003	0.05	1.50	3.0	2.4	0.6	44.4	<0.01	0.05	1.0	0.097
LS-17S09		34.1	960	8.7	9.4	0.003	0.07	1.39	2.9	3.1	0.5	40.0	<0.01	0.04	1.2	0.089
LS-17S10		35.8	920	9.4	8.2	0.004	0.08	1.92	2.9	3.1	0.5	36.3	<0.01	0.05	0.8	0.086
LS-17S11		39.0	1020	11.3	9.3	0.007	0.14	2.18	2.4	4.4	0.5	45.1	<0.01	0.05	0.5	0.063
LS-17S12		43.5	990	12.4	11.3	0.007	0.07	2.16	2.0	3.9	0.6	36.7	<0.01	0.05	0.4	0.053
LS-17S13		31.5	860	7.2	10.0	0.002	0.03	1.31	3.1	2.0	0.7	40.1	<0.01	0.05	1.0	0.101
LS-17S14		36.1	870	7.9	12.5	0.003	0.04	2.87	4.1	2.6	0.8	46.9	<0.01	0.06	1.4	0.126
LS-17S15		26.5	870	6.5	10.4	0.003	0.04	1.75	3.0	2.1	0.5	38.5	<0.01	0.04	0.9	0.096
LS-17S16		31.2	800	7.1	11.1	0.003	0.04	1.92	3.7	2.0	0.7	41.9	<0.01	0.04	1.2	0.116
WB-17S01		29.2	1270	10.9	32.2	0.006	0.06	0.58	3.6	2.9	0.5	44.8	<0.01	0.04	0.5	0.142



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Page: 2 - D
 Total # Pages: 2 (A - D)
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173225

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.02	0.05	1	0.05	0.05	2	0.5
LS-17S01		0.12	0.87	50	0.16	7.75	152	<0.5
LS-17S02		0.14	1.93	48	0.17	7.78	182	<0.5
LS-17S03		0.16	1.20	49	0.18	8.10	154	0.6
LS-17S04		0.20	0.77	48	0.26	5.52	112	<0.5
LS-17S05		0.15	1.54	50	0.21	8.89	211	0.6
LS-17S06		0.11	3.01	47	0.19	12.85	164	0.6
LS-17S07		0.21	1.85	70	0.22	13.30	234	0.5
LS-17S08		0.13	0.90	65	0.19	8.33	175	0.5
LS-17S09		0.11	13.50	59	2.51	8.42	168	0.5
LS-17S10		0.11	0.71	68	0.17	7.41	202	0.6
LS-17S11		0.12	0.94	61	0.14	8.50	227	0.5
LS-17S12		0.12	1.06	53	0.13	7.79	252	0.5
LS-17S13		0.13	0.73	62	0.18	7.48	162	0.5
LS-17S14		0.17	0.87	71	0.22	8.12	160	0.8
LS-17S15		0.12	1.10	55	0.57	7.40	137	0.5
LS-17S16		0.13	0.81	63	0.21	7.44	146	0.6
WB-17S01		0.21	0.91	107	0.18	9.00	144	0.6



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CERTIFICATE OF ANALYSIS VA17173225

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 VA17173226

Project: LODE STAR

This report is for 2 Pan Con samples submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES		
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SPL-21	Split sample - riffle splitter
PUL-51	Pulverize Pan Concentrate

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

To: RICH RIVER EXPLORATION LTD.
 ATTN: ALS GEOCHEMISTRY

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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Page: 2 - A
 Total # Pages: 2 (A - D)
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Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173226

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
LS-17PC01		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
LS-17PC02		0.24	17.20	1.96	14.7	17.25	<10	70	0.29	0.19	0.58	1.86	18.40	10.2	31	0.48
		0.82	0.31	2.03	12.5	0.05	10	90	0.36	0.19	0.63	1.53	17.80	8.8	36	0.69



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
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CERTIFICATE OF ANALYSIS VA17173226

Sample Description	Method	MS41	MS41	MS41	MS41	MS41	MS41	MS41	MS41	MS41	MS41	MS41	MS41	MS41	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
LS-17PC01		24.8	5.97	4.15	0.09	0.08	0.03	0.016	0.13	9.1	16.9	0.83	3270	2.08	0.04	0.35
LS-17PC02		25.3	3.93	5.28	0.07	0.11	0.01	0.017	0.16	9.0	22.5	1.09	1820	1.66	0.04	0.43



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Page: 2 - C
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173226

Sample Description	Method Analyte Units LOR	ME-MS41 Ni ppm 0.2	ME-MS41 P ppm 10	ME-MS41 Pb ppm 0.2	ME-MS41 Rb ppm 0.1	ME-MS41 Re ppm 0.001	ME-MS41 S % 0.01	ME-MS41 Sb ppm 0.05	ME-MS41 Sc ppm 0.1	ME-MS41 Se ppm 0.2	ME-MS41 Sn ppm 0.2	ME-MS41 Sr ppm 0.2	ME-MS41 Ta ppm 0.01	ME-MS41 Te ppm 0.01	ME-MS41 Th ppm 0.2	ME-MS41 Ti % 0.005
LS-17PC01		21.2	720	4.8	6.0	0.001	0.60	2.59	11.8	6.4	0.5	39.3	0.01	0.05	3.0	0.135
LS-17PC02		21.5	820	4.0	8.2	0.002	0.09	1.82	8.3	2.0	0.5	48.9	<0.01	0.03	2.4	0.165



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 4-SEP-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173226

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
LS-17PC01		0.09	3.47	57	9.91	39.7	83	3.3
LS-17PC02		0.11	1.58	73	8.40	23.9	87	4.3



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 4-SEP-2017
Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173226

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 PUL-51 SPL-21
WEI-21



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 Plus Appendix Pages
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 This copy reported on
 16-NOV-2017
 Account: RCHRIV

CERTIFICATE VA17173864

Project: LODE STAR

This report is for 1 Soil sample submitted to our lab in Vancouver, BC, Canada on 9-AUG-2017.

The following have access to data associated with this certificate:

C. LYNES		
----------	--	--

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: RICH RIVER EXPLORATION LTD.
 ATTN: ALS GEOCHEMISTRY

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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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 30-AUG-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173864

Sample Description	Method	Analyte	Units	LOR	WEI-21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41			
					Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co		
					kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	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		
LS-17-31 SS					0.54	0.11	3.41	3.5	<0.02	<10	380	0.53	0.05	0.41	0.15	44.0	23.4	503	4.10



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Page: 2 - B
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 Plus Appendix Pages
 Finalized Date: 30-AUG-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173864

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
LS-17-31 SS		158.0	7.07	10.30	0.17	0.12	0.01	0.026	0.58	12.9	34.3	2.55	729	1.93	0.02	0.76



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Page: 2 - C
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 Plus Appendix Pages
 Finalized Date: 30-AUG-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173864

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	
LS-17-31 SS					127.0	1850	1.7	40.9	<0.001	0.13	33.9	9.6	1.6	0.3	84.3	<0.01	0.09	2.7	0.323	

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



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Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 30-AUG-2017
 Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173864

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
LS-17-31 SS		0.45	0.59	191	0.18	10.10	88	5.2



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 30-AUG-2017
Account: RCHRIV

Project: LODE STAR

CERTIFICATE OF ANALYSIS VA17173864

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 VI

ALS ANALYTICAL PROCEDURE AND METHOD DESCRIPTIONS

SAMPLE PREPARATION PACKAGE

PREP- 31

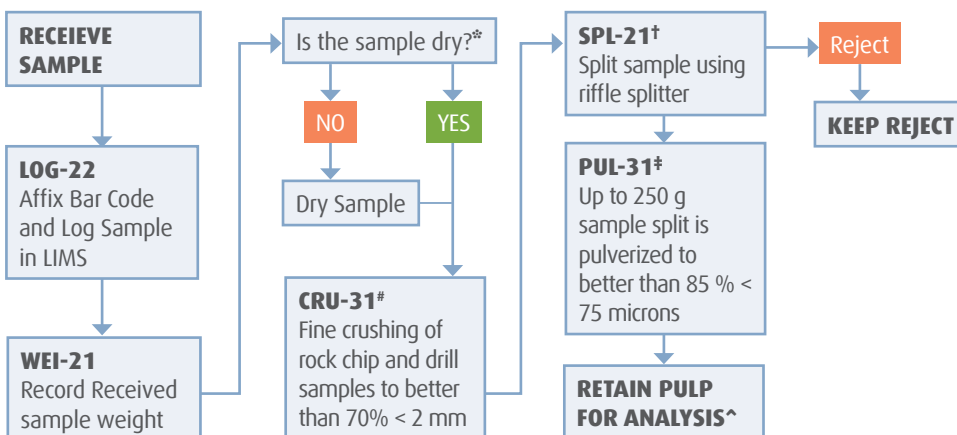
STANDARD SAMPLE PREPARATION: DRY, CRUSH, SPLIT AND PULVERIZE

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

METHOD CODE	DESCRIPTION
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-21	Drying of excessively wet samples in drying ovens. This is the default drying procedure for most rock chip and drill samples.
CRU-31	Fine crushing of rock chip and drill samples to better than 70% of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85% of the sample passing 75 microns.

FLOW CHART - SAMPLE PREPARATION PACKAGE – PREP-31 STANDARD SAMPLE PREPARATION: DRY, CRUSH, SPLIT AND PULVERIZE



*If samples air-dry overnight, no charge to client. If samples are excessively wet, the sample should be dried to a maximum of 120°C. **(DRY-21)**

#QC testing of crushing efficiency is conducted on random samples **(CRU-QC)**.

†The sample reject is saved or dumped pending client instructions. Prolonged storage (> 45 days) of rejects will be charged to the client.

‡QC testing of pulverizing efficiency is conducted on random samples **(PUL-QC)**.

^Lab splits are required when analyses must be performed at a location different than where samples received.

SAMPLE PREPARATION PACKAGE

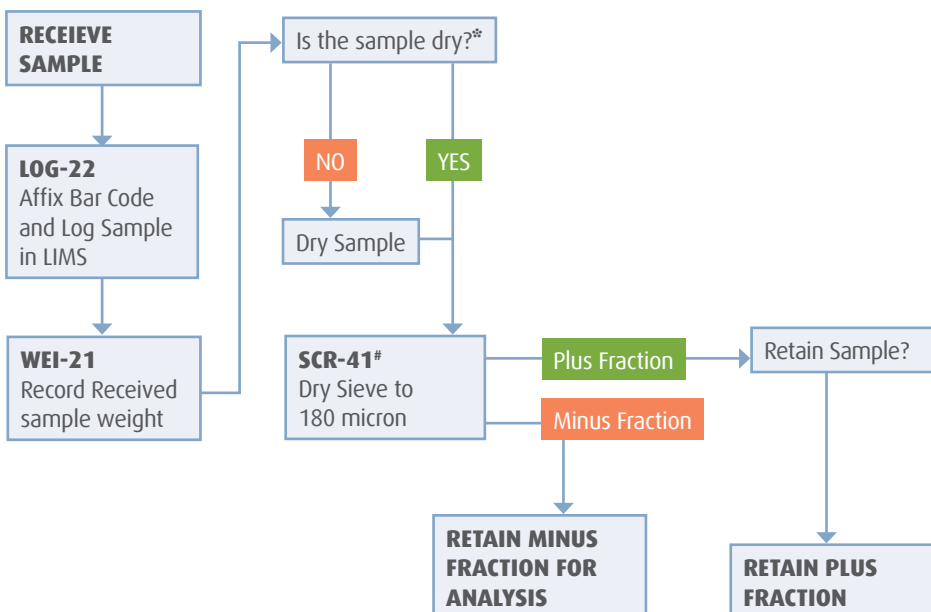
PREP- 41

STANDARD PREPARATION: DRY SAMPLE AND DRY- SIEVE TO -180 MICRON

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory. An entire sample is dried and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to 1 kg in weight.

METHOD CODE	DESCRIPTION
LOG-22	Sample is logged in tracking system and a bar code label is attached.
DRY-22	Low temperature drying of excessively wet samples where the oven temperature is not to exceed 60°C. This method is suitable for more soil and sediment samples that are analyzed for volatile elements.
SCR-41	Sample is dry-sieved to - 180 micron and both the plus and minus fractions are retained.

SAMPLE PREPARATION FLOWCHART PACKAGE -PREP- 41



*If samples air-dry overnight, no charge to client. If samples are excessively wet, the sample should be dried to a maximum of 120°C. **(DRY-21)**

#The plus fraction is the material remaining on the screen. The minus fraction is the material passing through the screen.

†The plus fraction is retained unless disposal is requested.



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, silver and tungsten and diluted accordingly. Samples are then analysed by ICP-MS for the remaining suite of elements. The analytical results are corrected for inter-element 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

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Sep 20, 2006

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Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
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
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

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Sep 20, 2006

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Geochemical Procedure

Element	Symbol	Units	Lower Limit	Upper Limit
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.

FIRE ASSAY PROCEDURE

Ag-GRA21, Ag-GRA22, Au-GRA21 and Au-GRA22

PRECIOUS METALS GRAVIMETRIC ANALYSIS METHODS

SAMPLE DECOMPOSITION

Fire Assay Fusion (FA-FUSAG1, FA-FUSAG2, FA-FUSGV1 and FA-FUSGV2)

ANALYTICAL METHOD

Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold. Silver, if requested, is then determined by the difference in weights.

METHOD CODE	ELEMENT	SYMBOL	UNITS	SAMPLE WEIGHT (G)	DETECTION LIMIT	UPPER LIMIT
Ag-GRA21	Silver	Ag	ppm	30	5	10,000
Ag-GRA22	Silver	Ag	ppm	50	5	10,000
Au-GRA21	Gold	Au	ppm	30	0.05	1,000
Au-GRA22	Gold	Au	ppm	50	0.05	1,000

ASSAY PROCEDURE

ME- OG46

ORE GRADE ELEMENTS BY AQUA REGIA DIGESTION USING CONVENTIONAL ICP- AES ANALYSIS

SAMPLE DECOMPOSITION

HNO₃ -HCl Digestion (ASY-4R01)

ANALYTICAL METHOD

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

Assays for the evaluation of ores and high-grade materials are optimized for accuracy and precision at high concentrations. Ultra high concentration samples (> 15 -20%) may require the use of methods such as titrimetric and gravimetric analysis, in order to achieve maximum accuracy.

A prepared sample is digested in 75% aqua regia for 120 minutes. After cooling, the resulting solution is diluted to volume (100 mL) with de-ionized water, mixed and then analyzed by inductively coupled plasma - atomic emission spectrometry or by atomic absorption spectrometry.

***NOTE:** ICP-AES is the default finish technique for ME-OG46. However, under some conditions and at the discretion of the laboratory an AA finish may be substituted. The certificate will clearly reflect which instrument finish was used.

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT
Silver	Ag	ppm	1	1,500
Arsenic	As	%	0.01	30
Cadmium	Cd	%	0.001	10
Cobalt	Co	%	0.001	20
Copper	Cu	%	0.001	40
Iron	Fe	%	0.01	100
Manganese	Mn	%	0.01	50
Molybdenum	Mo	%	0.001	10
Nickel	Ni	%	0.001	10
Lead	Pb	%	0.001	20
Zinc	Zn	%	0.001	60



QUALITY ASSURANCE OVERVIEW

Laboratory Accreditation and Certification



ISO/IEC 17025

ALS Minerals North Vancouver, Reno and Val d'Or have received ISO/IEC 17025 accreditation from the Standards Council of Canada under CAN-P-4E (ISO/IEC 17025:2005), the General Requirements for the Competence of Testing and Calibration Laboratories, and the PALCAN Handbook (CAN-P-1570).

The scope of accreditation for ALS Minerals Vancouver includes the following methods:

- Au-AA: Determination of Au by Lead Collection Fire Assay and AAS
- Au/Ag-GRA: Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish
- PGM-ICP: Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES
- ME-ICP41: Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES
- ME-MS41: Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Aqua Regia Digestion and ICP-AES and ICP-MS
- ME-ICP61: Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Ti, Tl, U, V, W, Y, Zn and Zr) Determination by 4-Acid Digestion and ICP-AES
- ME-MS61: Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4-Acid Digestion and ICP-AES and ICP-MS
- ICP81: Al, Co, CU, Fe, Mg, Mn, Ni, Pb, S and Zn by Sodium Peroxide Fusion and ICP-AES

- OG46: Ag, Cu, Mo, Pb, and Zn – Determination of Ores and High Grade Material Using ICP-AES Following an Aqua Regia Digestion
- OG62: Ag, Cu, Mo, Pb and Zn – Determination of Ores and High Grade Material Using ICP-AES Following a Four-Acid Digestion
- AA45: Ag, Cu, Pb and Zn – Determination of Base Meals Using AAS Following an Aqua Regia Digestion
- AA46: Ag, Cu, Pb, Zn and Mo – Determination of Ores and High Grade materials Using AAS Following an Aqua Regia Digestion
- AA61: Ag, Co, Cu, Ni, Pb and Zn – Determination of Base Metals Using AAS Following a Four-Acid Digestion
- AA62: Ag, Co, CU, Mo, Ni, Pb and Zn – Determination of Ores and High Grade Materials Using AAS Following a Four-Acid Digestion

The scope of accreditation for ALS Minerals Reno includes the following method:

- Au-AA: Determination of Au by Lead Collection Fire Assay and AAS

The scope of accreditation for ALS Minerals Val d'Or includes the following methods:

- Au-AA: Determination of Au by Lead Collection Fire Assay and AAS
- Au-GRA: Determination Au by Lead Collection Fire Assay and Gravimetric Finish

ISO 9001



ALS Minerals laboratories in North America are registered to ISO 9001:2008 for the “provision of assay and geochemical analytical services” by QMI-SAI Global Quality Registrars.

The ISO 9001: 2008 registration provides evidence of a quality management system covering all aspects of our organization. ISO/IEC 17025 accreditation provides specific assessment of our laboratory’s analytical capabilities. In our opinion, the combination of the two ISO standards provides our clients complete assurance regarding the quality of every aspect of ALS Minerals operations.

Aside from laboratory accreditation, ALS Minerals has been a leader in participating in, and sponsoring, the assayer certification program in British Columbia. Many of our analysts have completed this demanding program that includes extensive theoretical and practical examinations. Upon successful completion of these examinations, they are awarded the title of Registered Assayer.

Quality Assurance Program

The quality assurance program is an integral part of all day-to-day activities at ALS Minerals and involves all levels of staff. Responsibilities are formally assigned for all aspects of the quality assurance program.

Sample Preparation Quality Specifications

Standard specifications for sample preparation are clearly defined and monitored. The specifications for our most common methods are as follows:

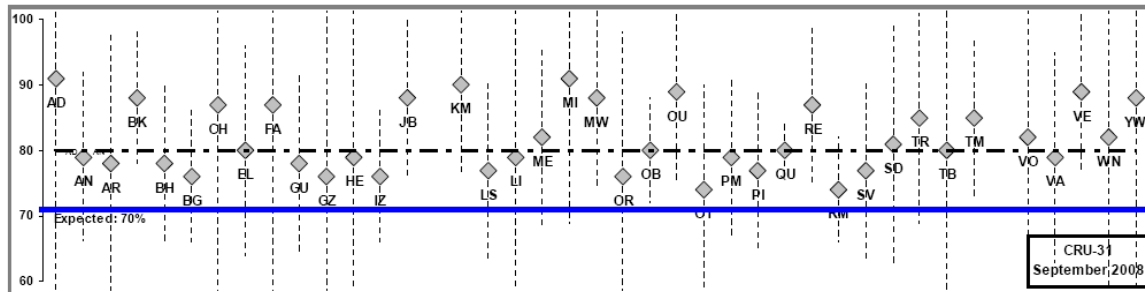
- **Crushing (CRU-31)**
> 70% of the crushed sample passes through a 2 mm screen
- **Ringing (PUL-31)**
> 85% of the ring pulverized sample passes through a 75 micron screen (Tyler 200 mesh)
- **Samples Received as Pulps**
>85% of the sample passes through a 75 micron screen (Tyler 200 mesh)

These characteristics are measured and results reported to verify the quality of sample preparation. Our standard operating procedures require that samples at every preparation station are tested regularly throughout each shift. Measurement

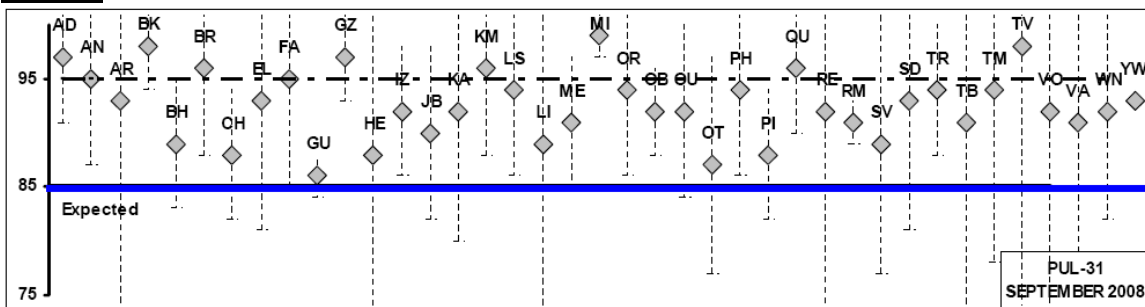
of sample preparation quality allows the identification of equipment, operators and processes that are not operating within specifications.

QC results from all global sample preparation laboratories are captured by the LIM System and the QA Department compiles a monthly review report for senior management on the performance of each laboratory from this data.

CRU-31



PUL-31



Other Sample Preparation Specifications

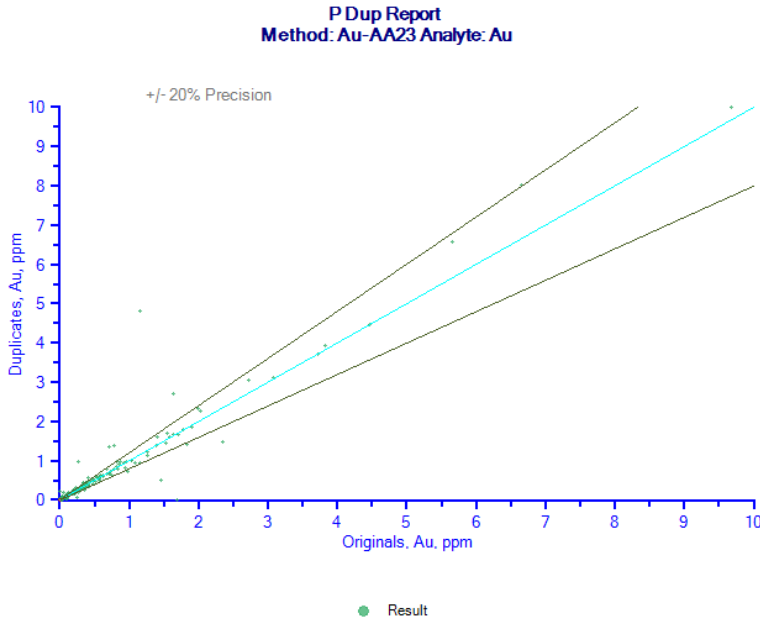
Sample preparation is a vital part of any analysis protocol. Many projects require sample preparation to other specifications, for instance >90% of the crushed sample to pass through a 2 mm screen. These procedures can easily be accommodated and the Prep QC monitoring system is essential in ensuring the required specifications are routinely met.

Sample Preparation Duplicates

In addition to routine screen tests, sample preparation quality is monitored at ALS Minerals through the insertion of sample preparation duplicates. For every 50 samples prepared, an additional split is taken from the coarse crushed material to create a pulverizing duplicate. The additional split is processed and analyzed in a similar manner to the other samples in the submission. It should be noted that the precision of the preparation duplicate results is highly dependent on the individual sample mineralogy, analytes of interest and

procedures selected for sample preparation. Therefore the data is most relevant at the client /project level.

All preparation duplicate data is automatically captured, sorted and retained in the QC Database and available on Webtrieve™ for client review. The data is also available on the QC Data Certificates.



Select Query Parameters

Client:

WO:

Method:

Pul Method:

Analyte:

Lab:

Chart:

Reports:

From: To:

Alerts

93.6% of Δ's < (Tol. + Avg) + 2 DLs

STATS:	Originals	Duplicates
DL:		.005
Tolerance:		20%
Data points:		760
Mean:	0.181	0.189
SD:	0.620	0.681

Analytical Quality Control – Reference Materials, Blanks & Duplicates

The LIMS inserts quality control samples (reference materials, blanks and duplicates) on each analytical run, based on the rack sizes associated with the method. The rack size is the number of sample including QC samples included in a batch. The blank is inserted at the beginning, standards are inserted at random intervals, and duplicates are analysed at the end of the batch. Quality control samples are inserted based on the following rack sizes specific to the method:

Rack Size	Methods	Quality Control Sample Allocation
20	Specialty methods including specific gravity, bulk density, and acid insolubility	2 standards, 1 duplicate, 1 blank
28	Specialty fire assay, assay-grade, umpire and concentrate methods	1 standard, 1 duplicate, 1 blank
39	XRF methods	2 standards, 1 duplicate, 1 blank
40	Regular AAS, ICP-AES and ICP-MS methods	2 standards, 1 duplicate, 1 blank
84	Regular fire assay methods	2 standards, 3 duplicates, 1 blank

Laboratory staff analyse quality control samples at least at the frequency specified above. If necessary, they may include additional quality control samples above the minimum specifications.

All data gathered for quality control samples – blanks, duplicates and reference materials – are automatically captured, sorted and retained in the QC Database.

Quality Control Limits and Evaluation

Quality Control Limits for reference materials and duplicate analyses are established according to the precision and accuracy requirements of the particular method. Data outside control limits are identified and investigated and require corrective actions to be taken. Quality control data is scrutinised at a number of levels. Each analyst is responsible for ensuring the data submitted is within control specifications. In addition, there are a number of other checks.

Certificate Approval

If any data for reference materials, duplicates, or blanks falls beyond the control limits established, it is automatically flagged red by the computer system for serious failures, and yellow for borderline results. The Department Manager(s) conducting the final review of the Certificate is thus made aware that a problem may exist with the data set.

Precision Specifications and Definitions

Most geochemical procedures are specified to have a precision of $\pm 10\%$, and assay procedures $\pm 5\%$. The precision of Au analyses is dominated by the sampling precision.

Precision can be expressed as a function of concentration:

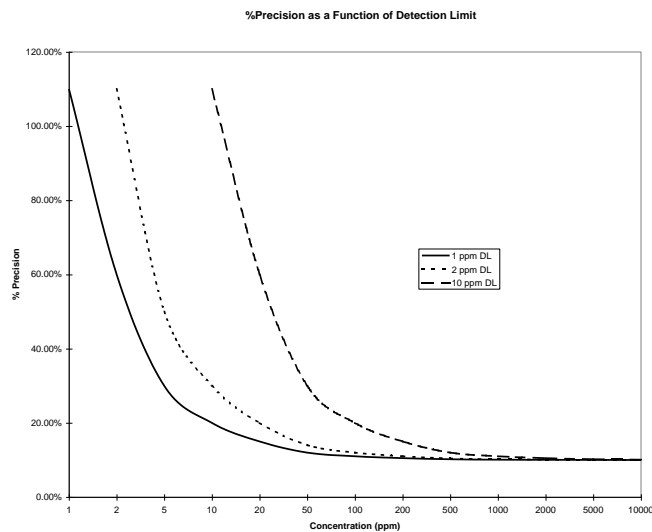
$$P_c = \left(\frac{\text{DetectionLimit}}{c} + P \right) \times 100\%$$

where P_c - the precision at concentration c
 c - concentration of the element

P - the "Precision Factor" of the element. This is the precision of the method at very high concentrations, i.e. 0.05 for 5%.

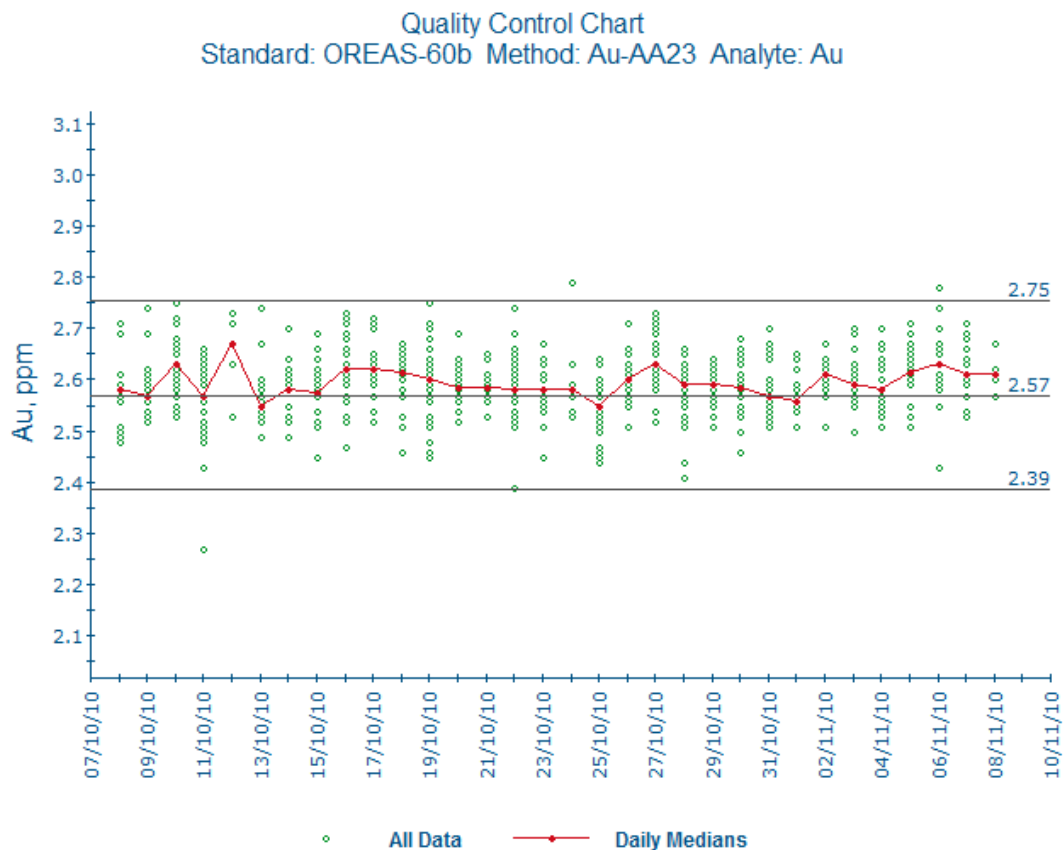
(M. Thompson, 1988. Variation of precision with concentration in an analytical system. Analyst, 113: 1579-1587.)

As an example, precision as a function of concentration (10% precision) is plotted for three different detection limits. The impact of detection limit on precision of results for low-level determinations can be dramatic.



Evaluation of Trends

Control charts for frequently used method codes are generated and evaluated by laboratory staff on a regular basis. The control charts are evaluated to ensure internal specifications for precision and accuracy are met. The data is also reviewed for any long-term trends and drifts.



External Proficiency Tests

Proficiency testing provides an independent assessment of laboratory performance by an outside agency. Test materials are regularly distributed to the participants and results are processed by a central agency. The results are usually converted to a Z-Score to rate the laboratory's result against the consensus value from all participating labs.

All ALS Minerals analytical facilities in North America participate in proficiency tests for the analytical procedures routinely done at each laboratory. ALS Minerals has participated for many years in proficiency tests organized by organizations such as Canadian Certified Reference Materials Projects, and

Geostats as well as a number of independent studies organized by consultants for specific clients. We have participated also participated in several certification studies for new certified reference materials by CANMET and Rocklabs.

Feedback from these studies is invaluable in ensuring our continuing accuracy and validation of methods.

Quality Assurance Meetings

A review of quality assurance issues is held regularly at Technical and Quality Assurance Meetings. The meetings cover such topics as:

- Results of internal round robin exchanges, external proficiency tests and performance evaluation samples
- Monitoring of control charts for reference materials
- Review of quality system failures
- Incidents raised by clients
- Results of internal quality audits
- Other quality assurance issues

The Quality Assurance Department and senior laboratory management participate in these meetings.