



Ministry of Energy & Mines  
 Energy & Minerals Division  
 Geological Survey Branch

ASSESSMENT REPORT  
 TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)] 2006 DIAMOND DRILLING ASSESSMENT REPORT ON THE COPPER CANYON PROPERTY TOTAL COST \$110,192.29

AUTHOR(S) Scott A. Petzel, CPG, P. Geo. SIGNATURE(S) [Signature]  
W.M. Selina W.M., B.Sc. [Signature]

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-1-622 YEAR OF WORK 2006

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 4112473 Nov 23/2006

PROPERTY NAME COPPER CANYON

CLAIM NAME(S) (on which work was done) 516174

COMMODITIES SOUGHT COPPER, GOLD, SILVER

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN \_\_\_\_\_

MINING DIVISION LIARD NTS 1049/03

LATITUDE 57 ° 07 ' 0 " N LONGITUDE 131 ° 20 ' 56 W \* (at centre of work)

OWNER(S)

1) COPPER CANYON RESOURCES LTD. 2) \_\_\_\_\_

MAILING ADDRESS

SUITE 200, 16-11<sup>th</sup> AVE. S.  
CRANBROOK, B.C. V1C, 2P1

OPERATOR(S) (who paid for the work)

1) NOVAGOLD CANADA INC. 2) \_\_\_\_\_

MAILING ADDRESS

SUITE 2300, 200 GRANVILLE STREET  
VANCOUVER, B.C., V6C 1S4

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

STIKINE TERRANE, LATE TRIASSIC, STUHNI GROUP, HICKMAN PLUTONIC  
SUITE, ALKALI SYENITES, COPPER CANYON PORPHYRY, DOGHOUSE FAULT,  
POTASSIC ALTERATION, CU-AU-AG MINERALIZATION, GALORE CREEK

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 2004 ASSESSMENT REPORT ON  
GALORE CREEK, COPPER CANYON AND GRACE PROPERTIES (AR# 27689); 2005 ASSESSMENT  
REPORT ON COPPER CANYON (AR# 28189)

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL</b>			
(number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock _____			
Other _____			
<b>DRILLING</b>			
(total metres; number of holes, size)			
Core <u>489 metres, 1 hole, HQ &amp; NQ-sized core</u>		516174	\$96,524.07
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying <u>254 samples</u>		516174	\$12,168.22
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
<b>PROSPECTING (scale, area)</b> _____			
<b>PREPARATORY/PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other <u>REPORT PREPARATION</u>			\$1,500.00
<b>TOTAL COST</b>			<b>\$110,192.29</b>

**2006 DIAMOND DRILLING ASSESSMENT REPORT  
ON THE COPPER CANYON PROPERTY**

Event Number: 4112473  
Claim Worked On: 516174

Liard Mining Division  
British Columbia, Canada

NTS Map Sheet 104G/03  
BCGS Map Sheets 104G.013 and G.014  
57° 07' North Latitude  
131° 20'56" West Longitude

Owned by  
Copper Canyon Resources Ltd.  
Suite 200, 16-11<sup>th</sup> Ave. S.  
Cranbrook, B.C. V1C 2P1

Operated by  
NovaGold Canada Inc.  
Suite 2300, 200 Granville Street  
Vancouver, B.C. V6C 1S4

Prepared by  
Scott A. Petsel, CPG, P.Geo.  
W.M. Selina Wu, B.Sc.

February 2007

## **TABLE OF CONTENTS**

	<u>Page</u>
1.0 INTRODUCTION .....	1
2.0 LOCATION, ACCESS & PHYSIOGRAPHY .....	3
3.0 EXPLORATION HISTORY .....	3
4.0 LAND TENURE AND CLAIM STATUS .....	4
5.0 2006 SUMMARY OF WORK .....	8
6.0 GEOLOGY .....	8
6.1 Regional Geology .....	8
6.2 Property Geology.....	11
7.0 DIAMOND DRILLING .....	12
7.1 Introduction.....	12
7.2 Lithologic Description .....	12
7.3 Summary of Drill Results .....	18
8.0 DISCUSSION & CONCLUSIONS .....	19

## **APPENDICES**

APPENDIX I	References
APPENDIX II	Statement of Expenditures
APPENDIX III	Statements of Qualification
APPENDIX IV	Downhole Survey Results
APPENDIX V	Lithological Classification
APPENDIX VI	Copper Canyon Diamond Drill Log and Drill Section
APPENDIX VII	Assay Certificates
APPENDIX VIII	Analytical Procedures

**LIST OF TABLES**

Page

Table 1	Copper Canyon Claim Status.....	5
Table 2	2006 Copper Canyon – Diamond Drill Hole Collar Information.....	12
Table 3	2006 Copper Canyon – Summary of Significant Drill Hole Assay Composites .....	18

**LIST OF FIGURES**

Page

Figure 1	Location Map .....	2
Figure 2	Claim Map .....	6
Figure 3	Detailed Claim Map .....	7
Figure 4	Regional Geology Map .....	9

**LIST OF PLATES**

Scale

Plate 1	DDH CC06-0032: Section 357650 E	1 : 2,500
---------	---------------------------------	-----------

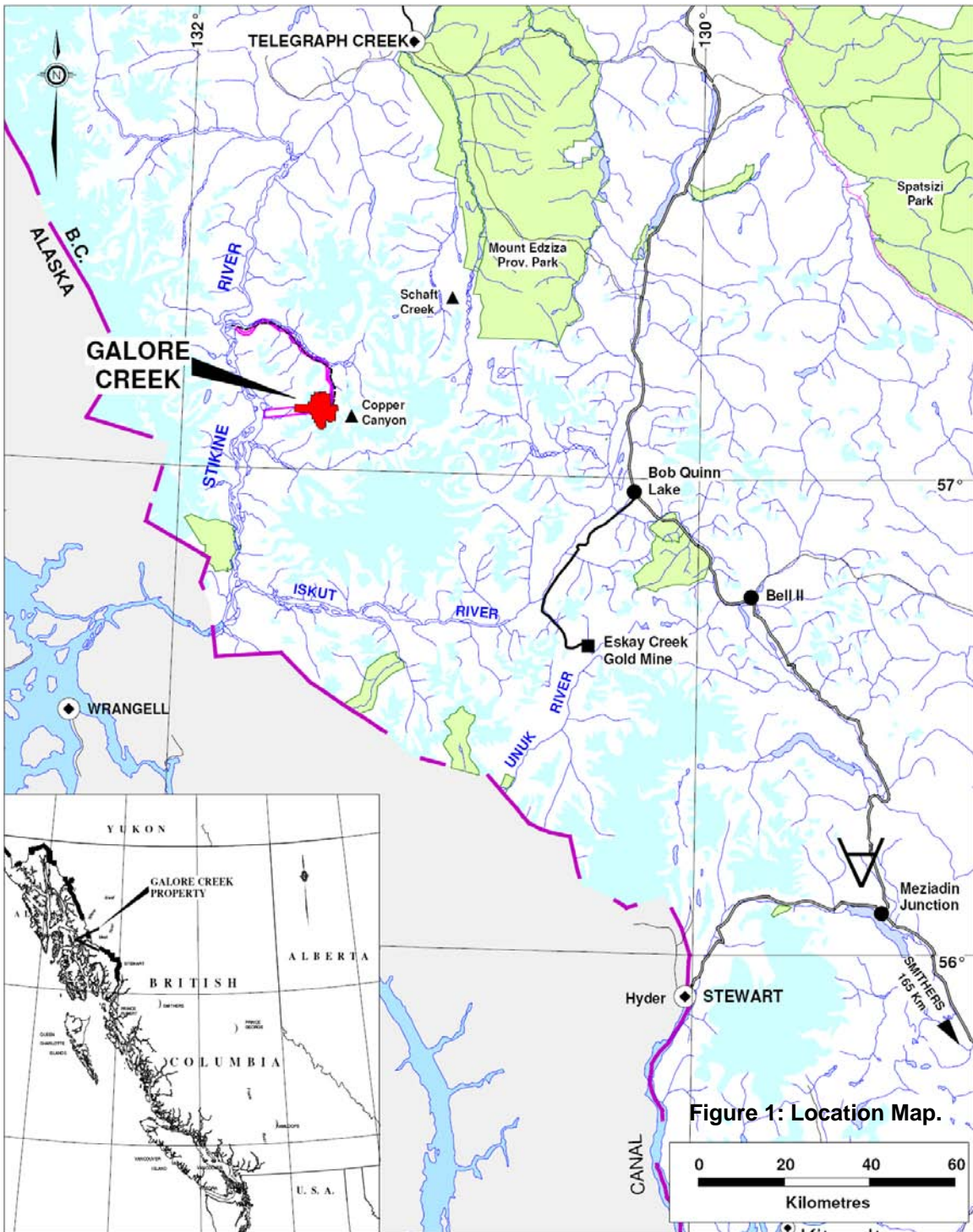
## 1.0 INTRODUCTION

The Copper Canyon property (Figure 1) is located within the historic Stikine Gold Belt of northwestern British Columbia, approximately 150 kilometres north of the tidewater port of Stewart, British Columbia, and 96 kilometres northeast of Wrangell, Alaska. The property consists of 12 mineral tenures, totalling 11,344 hectares owned by Copper Canyon Resources Ltd. and NovaGold Canada Inc. (NovaGold). NovaGold Canada Inc. is a subsidiary wholly owned by NovaGold Resources Inc.

In 2004, SpectrumGold Inc. (now NovaGold Canada Inc.) entered into an option agreement with Eagle Plains Resources Ltd. (now Copper Canyon Resources Ltd.) giving NovaGold the exclusive right to earn up to an 80% interest in the Copper Canyon Property composed of 4 located claims. The effective date of the agreement is October 1, 2003. During the first option period, NovaGold must issue 400,000 shares of NovaGold Resources Inc. to Copper Canyon Resources on or before February 26, 2007 and incur property expenditures of \$3 million on or before October 1, 2013 to earn a 60% interest. To earn another 20% interest, NovaGold must make a payment of \$1 million within 90 days of exercising the first option and complete a feasibility study within eight years of the agreement effective date. In addition, NovaGold assumed the commitments of the underlying Copper Canyon Resources option agreement dated May 28, 2002 with Bernard Kreft that included payments totalling \$250,000 and a 2% net smelter return.

Copper Canyon is an alkaline porphyry-style copper-gold-silver occurrence and is situated approximately 6 kilometres east of the Galore Creek deposits. Disseminated chalcopyrite mineralization occurs in surface exposures of syenite porphyry in Copper Canyon and Doghouse creeks, northerly tributaries of the East Fork of Galore Creek. The property has an inferred resource category estimate of 2.86 million ounces of gold, 37.9 million ounces of silver and 1.16 billion pounds of copper at a 0.35% copper equivalent cut-off grade (Hatch et al., 2005).

This report documents the 2006 diamond drilling program conducted between July 22, 2006 and August 20, 2006 on the Copper Canyon property. The drilling program consisted of one diamond drill hole, totalling 489 metres. All work was carried out within the boundaries of mineral claim 516174.



## **2.0 LOCATION, ACCESS & PHYSIOGRAPHY**

The Copper Canyon property (Figure 1) is located within the historic Stikine Gold Belt of northwestern British Columbia, approximately 150 kilometres north of Stewart, British Columbia, and 96 kilometres northeast of Wrangell, Alaska. The property lies north of the East Fork of Galore Creek and is situated approximately 6 kilometres east of the Galore Creek deposits. The property is located within the Liard Mining Division at latitude 57°07'30"N and longitude 131°21'W, on NTS map sheets 104G/03 and 104G/04.

The town of Smithers, located 370 kilometres to the southeast, is the nearest major supply centre. Access to the property is presently by helicopter. During the 2006 program most personnel, supplies and equipment were staged from the Bob Quinn airstrip and transported via helicopter from the Galore Creek camp. A 500-metre gravel airstrip at Galore Creek was cleared of brush in 2004 but it is used only as a staging area for the helicopters.

Copper Canyon is located in the humid continental climate zone of coastal BC. Summers are generally cool, and winters cold, with substantial snowfall. Property temperatures range from 20°C in the summer to well below -20°C in the winter. Annual precipitation is 76 centimetres with the majority (70%) falling as snow between September and February.

Physiographically, the Stikine-Iskut area is characterized by rugged mountains with elevations ranging between 500 to 2080 metres above sea level, active alpine glaciation and deep U-shaped valleys. Relief on the claims is generally extreme. Trees do not populate the property; vegetation generally includes grass and small brush.

## **3.0 EXPLORATION HISTORY**

The following exploration history is an excerpt from Otto (2004).

The Copper Canyon property was first discovered and explored in the late 1950's. The first drill holes, completed in 1957, delineated an inferred resource of 27 million tonnes (Termuende, 2002). Sporadic exploration efforts occurred in the 1960's but due probably to a combination of market conditions and difficulty of access the property remained idle until the late 1980's when it was re-evaluated for possible precious metal credits. 1990 saw a major increase in activity with renewed geological mapping and completion of a 3785 meter core drilling program. Additional work was recommended based on favourable results from the 1990 effort, but due apparently to a hostile political climate following elections, exploration activities ceased. The property remained idle until the claims were allowed to lapse in 2001. Prospector Bernie Kreft initiated the most recent flurry of activity in 2001 by staking the Kopper King 1 and 2 claims immediately following the lapse of the claims originally staked by American Metals Company 44 years prior. Termuende (2002) and Bottomer and Leary (1995) discuss the complete property history and the reader is referred to these papers for their comprehensive discussion.

In 2004, SpectrumGold Inc. (now NovaGold Canada Inc.) completed an eight hole, 3,024 metre diamond drill program at Copper Canyon to upgrade and expand the existing resource. Drilling was also conducted on exploration targets to test several peripheral occurrences and nearby properties in which NovaGold has an interest. Extensive geophysical surveys were conducted to assist the exploratory drilling. The results of the 2004 drilling program provided the basis for geological modeling, resource estimation, and economic evaluation at a pre-feasibility level.



In 2005, NovaGold Canada Inc. completed a three hole, 924 metre diamond drill program at Copper Canyon to test for extensions of known mineralization zones and to explore geophysical targets. The results of the 2005 drilling program confirmed results of past campaigns. Copper mineralization encountered thus far is hosted primarily by syenite intrusions of the Copper Canyon Porphyry complex. Mineralization appears to have a north-south trend, and both of these directions remain open.

#### **4.0 LAND TENURE AND CLAIM STATUS**

In 2004, SpectrumGold Inc. (now NovaGold Canada Inc.) entered into an option agreement with Eagle Plains Resources Ltd. (now Copper Canyon Resources Ltd.) giving NovaGold the exclusive right to earn up to an 80% interest in the Copper Canyon Property composed of 4 located claims. The effective date of the agreement is October 1, 2003. During the first option period, NovaGold must issue 400,000 shares to Copper Canyon Resources on or before February 26, 2007 and incur property expenditures of \$3 million on or before October 1, 2013 to earn a 60% interest. To earn another 20% interest, NovaGold must make a payment of \$1 million within 90 days of exercising the first option and complete a feasibility study within eight years of the agreement effective date. In addition, NovaGold assumed the commitments of the underlying Copper Canyon Resources option agreement dated May 28, 2002 with Bernard Kreft that included payments totaling \$250,000 and a 2%NSR.

In 2004, SpectrumGold Inc. (now NovaGold Canada Inc.) purchased 11 two-post claims from Silver Standard Resources Inc. and Teck-Cominco Limited. In June 2005, NovaGold transferred its held 100% interest in the 11 two-post claims (Bik 1, Bik 2, Bik 3, and eight Penny claims) to Eagle Plains Resources Ltd. (now Copper Canyon Resources Ltd.) as per Section 15.1 of the option agreement. In July, 2005, NovaGold converted the Copper Canyon claims with the exception of VIA 35 and VIA 37 legacy claims to cell mineral claims.

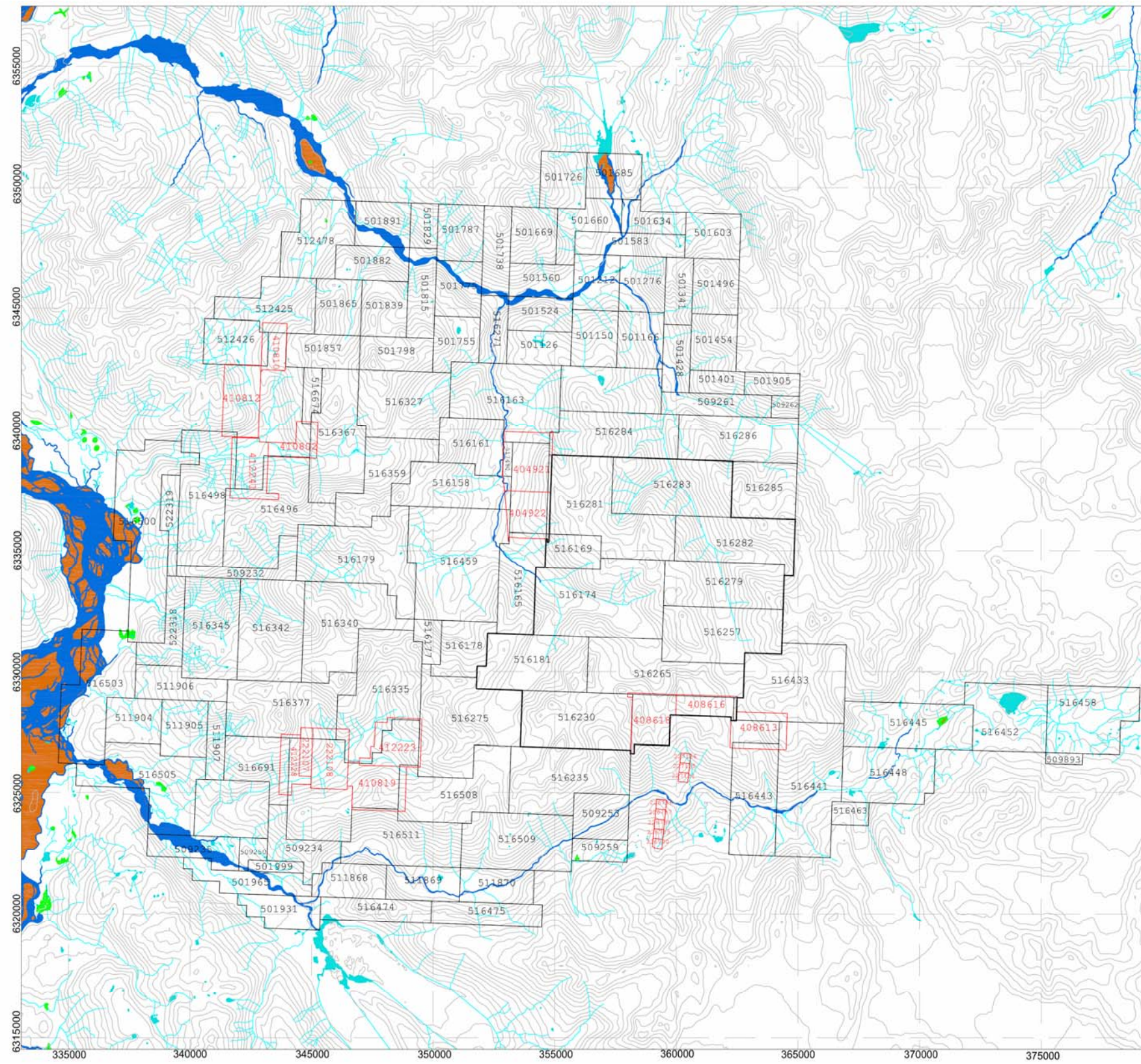
In 2006, the option agreement land schedule was revised to include mineral claims subject to the option agreement area of interest and replacement cell claims. This revised schedule was presented to Eagle Plains Resources Ltd. (now Copper Canyon Resources Ltd.) and Bernard Kreft for approval. See Table 1 for a list of the Copper Canyon Property Claims and their expiry date after the filing of and approval of this report. Figures 2 and 3 show the details of the Copper Canyon claims including location of the drill holes with respect to the claims.

This report covers work completed on portions of the Copper Canyon Property which was carried out under BC Ministry of Energy, Mines and Petroleum Resources mine permit number MX-1-622. The work at Copper Canyon was conducted entirely within the boundaries of mineral claim 516174.

**Table 1 - Copper Canyon Property Claim Status**

<b>Tenure No.</b>	<b>Name</b>	<b>Owner</b>	<b>Area (ha.)</b>	<b>Expiry Date*</b>
516169	Cell Claim	Copper Canyon Resources Ltd.	316.102	2016/DEC/01
516174	Cell Claim	Copper Canyon Resources Ltd.	1,598.830	2016/DEC/01
516181	Cell Claim	NovaGold Canada Inc.	1,002.122	2016/DEC/01
516230	Cell Claim	NovaGold Canada Inc.	1,055.420	2016/DEC/01
516257	Cell Claim	NovaGold Canada Inc.	1,072.055	2016/DEC/01
516265	Cell Claim	NovaGold Canada Inc.	1,177.971	2016/DEC/01
516279	Cell Claim	NovaGold Canada Inc.	913.438	2016/DEC/01
516281	Cell Claim	NovaGold Canada Inc.	1,386.770	2016/DEC/01
516282	Cell Claim	NovaGold Canada Inc.	930.595	2016/DEC/01
516283	Cell Claim	NovaGold Canada Inc.	1,140.709	2016/DEC/01
408616	VIA 35	NovaGold Canada Inc.	250.000	2016/DEC/01
408618	VIA 37	NovaGold Canada Inc.	500.000	2016/DEC/01
<b>Totals:</b>	<b>12 claims</b>		<b>11,344.012</b>	

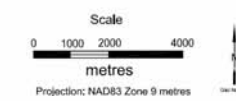
\*Note: Date indicated is subject to government approval of the 2006 assessment report.

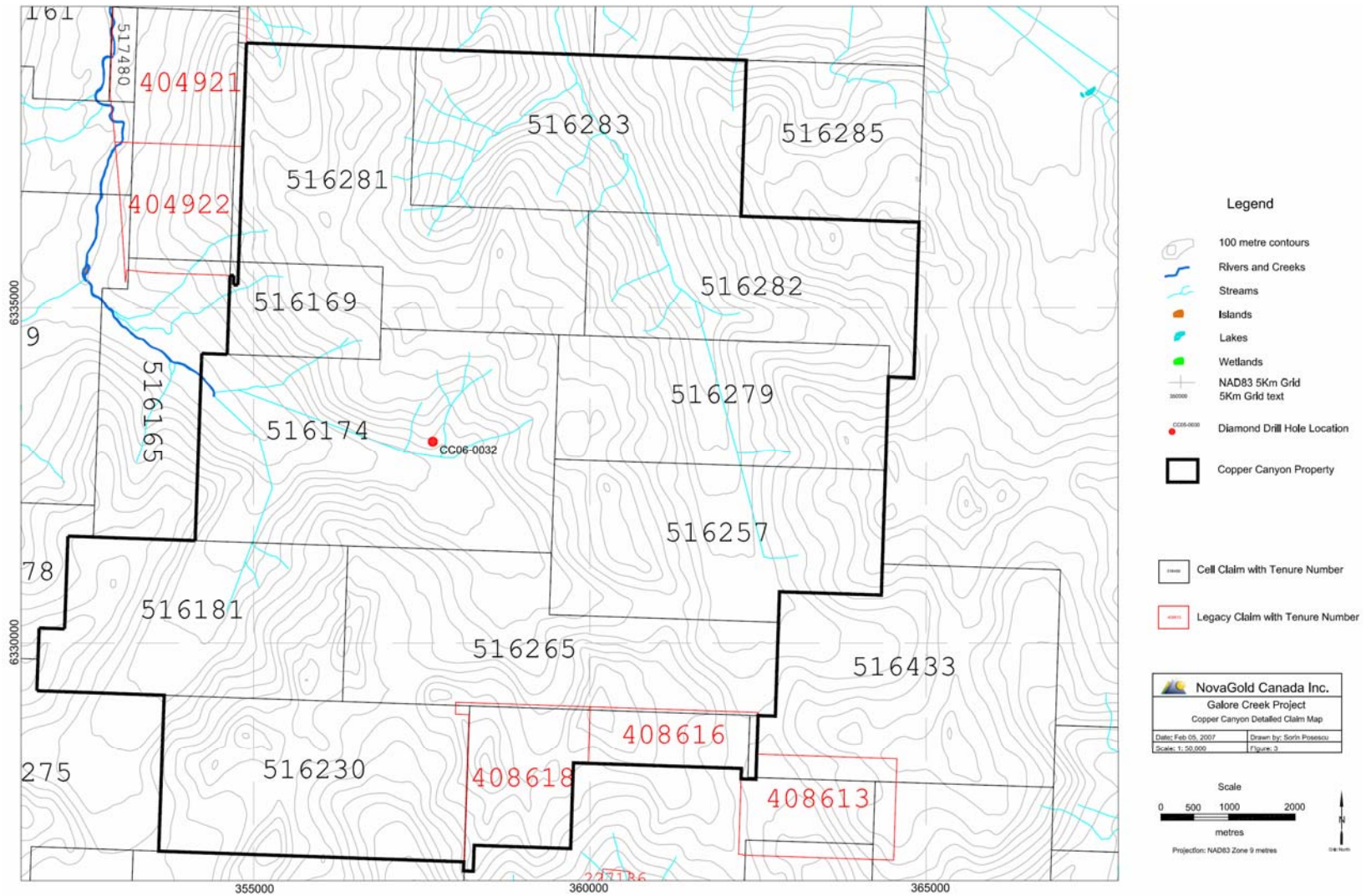


- Legend**
- 100 metre contours
  - Rivers and Creeks
  - Streams
  - Islands
  - Lakes
  - Wetlands
  - NAD83 5Km Grid
  - 5Km Grid text
- Cell Claim with Tenure Number
- Legacy Claim with Tenure Number

**NovaGold Canada Inc.**  
 Galore Creek Project  
 Copper Canyon Claim Map

Date: Feb 05, 2007    Drawn by: Sorlin Posescu  
 Scale: 1: 100,000    Figure 2





## **5.0 2006 SUMMARY OF WORK**

The diamond drilling program in the Copper Canyon property was conducted on mineral claim 516174 between July 22, 2006 and August 20, 2006 at a cost of \$110,192.29. This report discusses the work completed during this period and details of the costs can be found in Appendix II.

On November 23, 2006, under Event Number 4112473, assessment work totalling \$90,756.09 was applied to the claims listed in Table 1. The claim expiry dates were advanced to the year 2016 and are subject to government approval of this assessment report. The remaining portion of assessment work was credited to NovaGold's portable assessment credit account.

The program consisted of one diamond drill hole, totalling 489 metres. The main objective of the program was to further extend the presence of high-grade copper and gold within the Copper Canyon deposit. The hole is a step-out to the northwest and was drilled to test the northwest-dipping orebody modelled using MineSight® in 3D space. Drilling was conducted between July 23, 2006 and July 29, 2006. Hy-Tech Drilling Ltd. of Smithers, BC provided one S-5 custom built fly rig designed to drill HQ and NQ core.

The core recovered from each drill hole was flown to the Galore Creek exploration camp, where it was logged for lithology, alteration, mineralization, structure, core recovery and rock quality determination. In addition, geotechnical tests, such as specific gravity and point load strength, were performed. The core was cut in half using a diamond saw with half of the core taken as a sample and submitted to ALS Chemex Labs in North Vancouver, B.C. In addition to the core, control samples were inserted into the shipments at the approximate rate of one standard, one blank and one duplicate in every 20 samples. A total of 254 samples were collected and analysed for copper, gold, silver and 32 other elements. After the core was logged, cut, and sampled, the remaining half was stored at a designated location on the moraine near the Galore Creek camp.

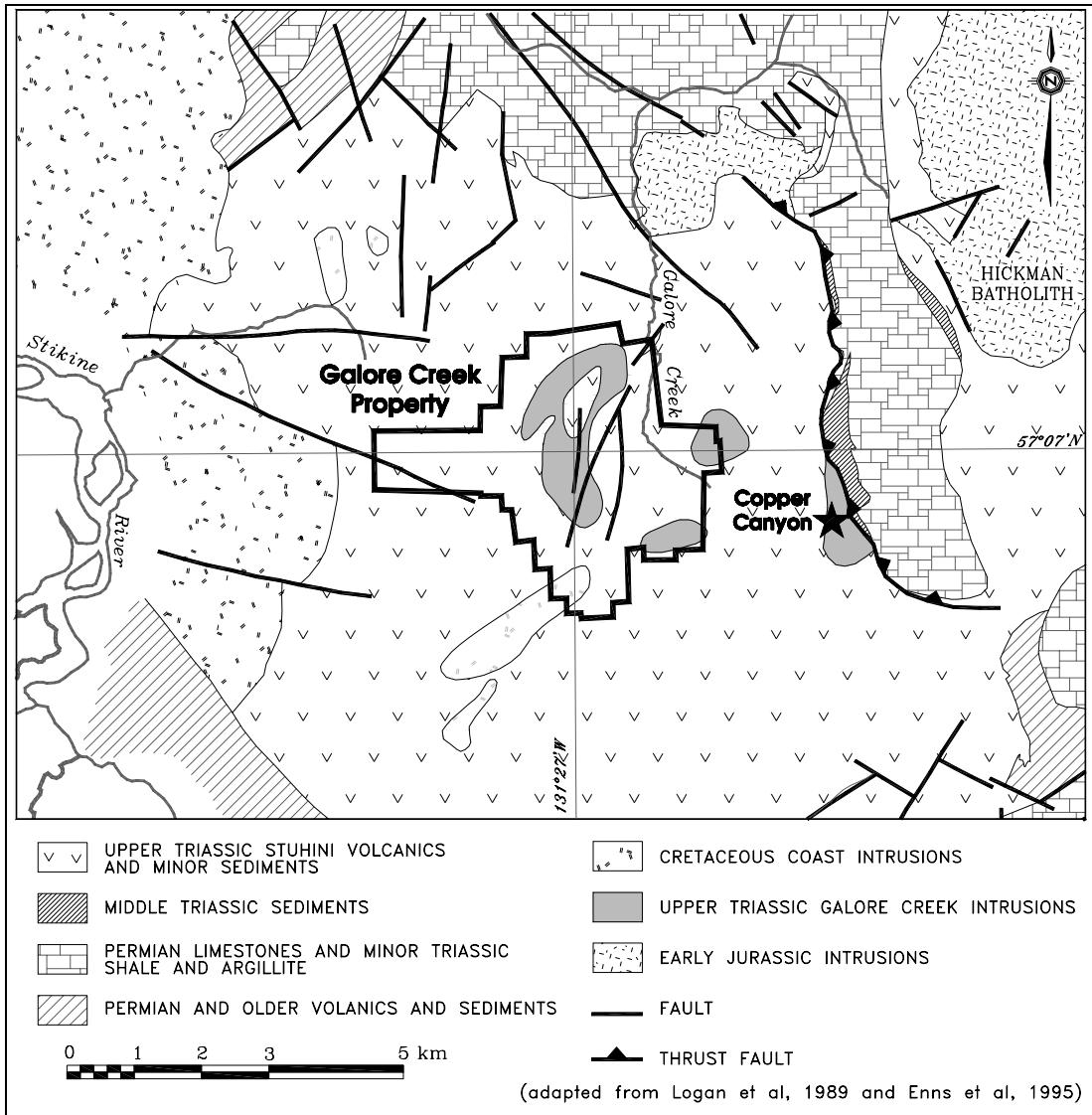
Helicopter support for the project was provided by Quantum Helicopters Ltd, of Terrace, B.C. The following helicopters were supplied under charter arrangements or sublease: Two Bell 206B Jet Rangers; Two Bell 206LR Long Rangers; One Bell 205. During the 2006 diamond drilling program, these helicopters flew a total of 19.4 hours between the drill site and the Galore Creek camp at a cost of \$31,066.25.

## **6.0 GEOLOGY**

### **6.1 Regional Geology**

The Copper Canyon property is located in the Galore Creek area, approximately 6 km east of the Galore Creek deposits. The following description of the regional geology is an excerpt from Simpson (2003). It has been divided into three parts: stratigraphy, intrusives, and structure.

The Galore Creek deposits lie in Stikinia Terrane, an accreted package of Mesozoic volcanic and sedimentary rocks intruded by Cretaceous to Eocene plutonic and volcanic rocks. The eastern boundary of the Coast Plutonic complex lies about 7 kilometres to the west of the claims. The property lies within a regional transcurrent structure known as the Stikine Arch.



**Figure 4 - Regional Geology (taken from Simpson, 2003)**

### Stratigraphy

Stikine terrane at this latitude can be grouped into four tectonostratigraphic successions. The first, and most important one in this area, is a Late Paleozoic to Middle Jurassic island arc suite represented by the Stikine assemblage of Monger (1970), the Stuhini Group (Kerr, 1948) and Hazelton Group equivalent rocks. The other successions are; Middle Jurassic to early Late Cretaceous successor-basin sediments of the Bowser Lake Group (Tipper and Richards, 1976); Late Cretaceous to Tertiary transtensional continental volcanic-arc assemblages of the Sloko Group (Aiken, 1959); and Late Tertiary to Recent post-orogenic plateau basalt bimodal volcanic rocks of the Edziza and Spectrum ranges.

The oldest stratigraphy in the area is known as the Stikine assemblage and comprises Permian and older argillites, mafic to felsic flows and tuffs. These rocks grade upward into two distinctive Mississippian limestone members separated by intercalated volcanics and clastic sediments. The topmost stratigraphy consists of two regionally extensive Permian carbonate units which suggest a stable continental shelf depositional environment.

The Middle to Upper Triassic Stuhini Group unconformably overlies the Stikine assemblage. Stuhini Group rocks comprise a variety of flows, tuffs, volcanic breccia and sediments, and are important host rocks to the alkaline-intrusive related gold-silver-copper mineralization at Galore Creek. They define a volcanic edifice centered on Galore Creek and represent an emergent Upper Triassic island arc characterized by shoshonitic and leucitic volcanics (de Rosen-Spence, 1985), distal volcanoclastics and sedimentary turbidites. The succession at Galore Creek was divided by Panteleyev (1976) into a submarine basalt and andesite lower unit overlain by more differentiated, partly subaerial alkali-enriched flows and pyroclastic rocks.

A fault-bounded wedge of unnamed Jurassic sediments unconformably overlies the Stuhini Group rocks. Within this unnamed Jurassic succession is a basal purple to red polymictic boulder and cobble conglomerate with an arkosic matrix. It contains granitic clasts including distinctive Potassium feldspar porphyries that are Galore Creek equivalents.

## **Intrusives**

Three intrusive episodes have been recognized in the region. The earliest and most important is the Middle Triassic to Middle Jurassic Hickman plutonic suite that is coeval with Upper Triassic Stuhini Group volcanic flows. The Mount Hickman batholith comprises three plutons known as Hickman, Yehino and Nightout. The latter two are exposed north of the map area. The Schaft Creek porphyry copper deposit is associated with the Hickman stock, and is located 39 km northeast of Galore Creek. This stock is crudely zoned with a pyroxene diorite core and biotite granodiorite margins. Alkali syenites of the Galore complex like those found at the nearby Copper Canyon deposit and the pyroxene diorite bodies of the zoned Hickman pluton have been interpreted as differentiated end members of the Stuhini volcanic - Hickman plutonic suite by Souther (1972) and Barr (1966). The alkali syenites are associated with important gold-silver-copper mineralization at Galore Creek and at Copper Canyon. These rocks are believed to be at least as old as Early Jurassic in age, based on K-Ar dating of hydrothermal biotite in the syenites intruding the sequences (Allen, 1966). An Ar-Ar age of 212 Ma (Logan et al., 1989) in syenite may give the time of crystallization of the intrusive rocks at Copper Canyon, to the east of Galore Creek. More recent U-Pb dates of Galore Creek syenites have given ages ranging from 205-210 Ma (Mortensen, 1995).

Coast Range intrusions comprise the large plutonic mass west of the map area. Three texturally and compositionally distinct intrusive phases were mapped by previous workers. From inferred oldest to youngest, they are Potassium feldspar megacrystic granite to monzonite; biotite hornblende diorite to granodiorite; and biotite granite. Small tertiary intrusive stocks and dykes are structurally controlled in their distribution. At Galore Creek young post-mineral basalt and felsite dykes are abundant as a dyke swarm in the northwest part of the property. Elsewhere, Tertiary intrusions may be important in their association with small gold occurrences.

## Structure

The regional geology has been affected by polyphase deformation and four main sets of faults. The oldest phase of folding is pre-Permian to post-Mississippian and affected the Paleozoic rocks between Round Lake and Sphaler Creek. This deformation is characterized by bedding plane parallel foliation in sediments and fragment flattening in volcanoclastics. Pre-Late Triassic folding is characterized by large, upright, tight to open folds with north to northwest trend of axial plane traces and westerly fold vergence. Metamorphism accompanying the first two phases of deformation reached greenschist facies. The third phase of folding is manifested as generally upright chevron folds with fold axes pointed west-northwesterly.

The oldest and longest-lived fault structures in the area have a north strike and sub-vertical dip. The best example occurs on the west flank of the Hickman batholith, where a major fault juxtaposes Permian limestone with a narrow belt of Stuhini Group volcanics. The second important fault type occurs at Copper Canyon as a west directed thrust fault with a north strike and east dip of 30 to 50 degrees. It juxtaposes overturned Permian limestone and Middle Triassic shale with Stuhini volcanics below. Early to Middle Jurassic syenite intrusions occupy this contact. A third important set of faults with north-west strike mark the boundary between Upper Triassic and Paleozoic rocks between Scud River and Jack Wilson Creek. The youngest faults have a northeast strike direction and are of great local importance. At Galore Creek, some of these faults show considerable post-mineral movement of up to 200 metres while others appear to control the emplacement of mineralized intrusive phases and breccia bodies.

## 6.2 Property Geology

The multiphase Copper Canyon syenite porphyry and adjacent volcanic rocks host disseminated copper, gold, and silver mineralization. The volcanic strata progress from a basal sequence of alkaline lavas upward to an extensive pyroclastic section, thence to epiclastic sediments. The Copper Canyon porphyry intrudes these lithologies. The basal lavas accumulated during passive, non-pyroclastic eruptions. Venting during emplacement of the Copper Canyon porphyry produced the overlying pyroclastic rocks, and reworking of these strata produced the epiclastic section. Significant Cu-Au-Ag mineralization lies within the intrusive rocks and within an orthomagmatic breccia unit below the pyroclastic rocks. The hydrothermal system is centered in the Copper Canyon porphyry. Mineralized clasts in the pyroclastic section and alteration of this superjacent eruptive carapace indicate that the ore system started prior to eruption and continued through and past the eruptive episode. Structures include early compressional and later normal faults. The largest compressional structure truncates the volcanic section and mineral system to the north and east, and places older siliciclastic and carbonate strata above mineralized lavas. Several normal faults occur but generally show small displacement.



## 7.0 DIAMOND DRILLING

### 7.1 Introduction

The 2006 diamond drilling program at Copper Canyon was carried out between July 22, 2006 and August 20, 2006. The main objective was to further extend the presence of high-grade copper and gold within the Copper Canyon deposit. Drilling results from Copper Canyon will be incorporated to the MineSight® 3D wire frame model in order to further understand the geology and mineralization of the deposit.

Core drilled in 2006 was transported to the Galore Creek camp and logged in entirety. Logging included coded and textural descriptions of lithologies and a detailed geotechnical description of fracture styles with a record of point load strength and specific gravity at approximately 5 to 10 metre intervals. Data were entered into an Access database using DDH Tool, an in-house front-end data entry program. Once logged the core was sawn, half of which was sent to ALS Chemex Labs for analysis and the other half stored on the moraine near the Galore Creek camp. In addition to the core samples, control samples were inserted into the shipments at the approximate rate of one standard, one blank and one duplicate in every 20 samples submitted to ALS Chemex.

Collar coordinates of the drill hole were initially located using hand-held GPS units. Upon completion, the holes were surveyed by differential GPS using an Ashtech ProMark II receiver. The collar information for CC06-0032 is provided in Table 2, below. Downhole surveys were conducted using a Reflex EZ-SHOT™ electronic solid-state single-shot survey tool. Survey results are located in Appendix IV.

**Table 2 – 2006 Copper Canyon – Diamond Drill Hole Collar Information**

Hole ID	UTM East	UTM North	Elevation (m)	Azimuth	Dip (degrees)	Total depth (m)
CC06-0032	357661.81	6333011.47	1280.68	140	-80	489

### 7.2 Lithologic Descriptions

There are 107 different lithology codes for the Galore Creek area including Copper Canyon. Stikine Copper Limited delineated the first 100 codes in 1991 and seven additional codes were created in 2004 by NovaGold Canada Inc. The entire lithologic classification can be found in Appendix V.

Roughly 30 primary rock types exist, most of which have subdivisions based on textural or temporal differences. Textural subdivisions exist for volcanics, intrusives, and breccias, and are self-explanatory. Temporal subdivisions exist for intrusives, and are based on contact relationships and mineralization. The necessity of such a detailed classification scheme is currently under review, as a simplified scheme will assist correlation of data within the model.

Each of the major rock types encountered on the project is described below. Many of the descriptions have been modified from Simpson (2003). Throughout this report the term orthoclase is used synonymously with potassium feldspar.

## **SEDIMENTARY ROCKS**

### **(S1) CONGLOMERATE:**

Conglomerates are common north of the Central Zone, in North Rim Creek and North Rim Zone, and in the North Junction Zone. The unit is heterolithic and unsorted. Fragments are subrounded to rounded, matrix supported by sand and silt sized grains. Fragments of volcanic and syenitic rocks are present and comprise up to 30% of the rock. Conglomerates contain local intercalations of argillite and greywacke. Channel scours and load casts are common.

### **(S2) GREYWACKE:**

Grey-green, poorly sorted, medium to coarse grained greywackes are common north of the Central Zone, in North Rim Creek. They also appear rarely in drill core within the Central Zone as intercalations with lapilli tuffs. This unit is locally well bedded and graded. Fragments of argillite and volcanic material are subangular to subrounded.

### **(S3) SILTSTONE:**

Siltstone is fine to medium grained, grey, massive to well bedded and locally contains graded bedding.

### **(S4) ARGILLITE:**

Argillite occurs as alternating medium to dark grey and black, aphanitic, well bedded sequences. Beds vary in thickness from 0.5 to 1 cm. Local flame structures have been observed.

### **(S5) LIMESTONE:**

Micritic or crystalline limestone; includes all variations of grain size and bed thickness. Lithology is sedimentary in origin and should not be confused with overprinted carbonate alteration.

### **(S6) EPICLASTIC SEDIMENTS:**

Composite lithology consisting primarily of reworked volcanic material; includes clay-rich (lacustrine) beds, siltstone, fine- to coarse-grained sandstone, and conglomerate. Lithology should show clear evidence of fluvial reworking such as planar or cross bedding, sorting, normal or reverse-grading, etc.

### **(S7) DIAMICTITE:**

Unsorted, mono- or poly lithic fragments that are matrix supported. The matrix consists of a mixture of clay, silt or sand. Lithology commonly shows either normal or reverse grading. Probably forms due to mass gravity flows such as lahars or debris flows.

## **VOLCANIC ROCKS**

### **(V1) AUGITE-BEARING VOLCANICS:**

Augite-bearing flows contain porphyritic and, infrequently, amygdaloidal textures. Augite phenocrysts vary in size from 2-5 mm and are generally euhedral to subhedral, stubby and dark green to black. They comprise up to 30% of the rock and are supported in a medium to dark green, aphanitic groundmass. The augite phenocrysts are usually altered to biotite, epidote and chlorite. Locally, strong garnet-biotite-orthoclase alteration is also observed. Interbedded with the augite bearing flows are augite-bearing volcanoclastics in the form of fine and coarse lapilli tuffs, tuff breccias and flow breccias,

containing subangular to subrounded fragments of augite porphyry. These volcanoclastics are generally matrix supported.

(V2) PSEUDOLEUCITE-BEARING VOLCANICS:

The original textures are often obliterated by intense orthoclase and sericite alteration. Copper/gold mineralization appears to occur preferentially in these rocks. In unaltered areas, euhedral and broken pseudoleucite phenocrysts up to 1.5 cm occur within a bluish grey to salmon pink groundmass. These phenocrysts often exhibit orthoclase-sericite altered cores. Rims are sometimes altered to sericite, magnetite and chlorite.

(V3) ORTHOCLASE-BEARING VOLCANICS:

Orthoclase-bearing volcanics are predominantly fine to coarse crystal lithic tuffs, with possible subordinate flows. They are often strongly mineralized with disseminated bornite, chalcopyrite and gold. They appear to be cogenetic and coeval with dark syenite porphyry intrusives, which may be their subvolcanic equivalents. The crystal fragments in the tuffs are broken orthoclase shards up to 7 mm across and are supported by a highly altered biotite-orthoclase +/- garnet-anhydrite matrix. Rare bedding is preserved locally.

**UNDIFFERENTIATED VOLCANICS (V4, V5, V6)**

In some areas, intense alteration has obliterated original textures resulting in the more vague classification of "undifferentiated volcanics". Such rocks have been classified on the basis of colour and association.

(V4) MAFIC VOLCANICS:

Mafic volcanic rocks (V4) are dark green, chloritic flows and tuffs, common in the north part of the Central Zone. These are interbedded, and may in part be correlated with, unit V1 (augite-bearing volcanics). Porphyritic and amygdaloidal flow textures have been preserved locally and volcanic clasts are sometimes preserved in pyroclastic rocks.

(V5) INTERMEDIATE VOLCANICS:

Intermediate volcanic rocks (V5) are very common in the Central Zone. These rocks are medium greenish grey volcanoclastics and flows, and may be aphyric equivalents of the pseudoleucite bearing volcanic units. Included in this unit are possible trachy-andesites containing subrounded orthoclase phyric fragments. Aphanitic volcanic clasts up to 3 cm across have also been observed within a fine grained to aphanitic matrix. Secondary biotite occurs both as a spotted to patchy alteration and as coarse aggregates and veins.

(V6) FELSIC VOLCANICS:

Intense orthoclase flooding has resulted in pale grey, felsic volcanic rocks (V6) which are fine to medium grained volcanoclastics and flows. V6 rocks are present in the north and central part of the Central Zone, often interbedded with pseudoleucite volcanic rocks which may be their equivalent.

**INTRUSIVE ROCKS**

(I1) PSEUDOLEUCITE PORPHYRY & (I2) MEGAPORPHYRY:

I1 and I2 are relatively rare, and occur as thin dykes in the Central zone. Pseudoleucite porphyry is light grey to light greenish grey. Phenocrysts of euhedral pseudoleucite are set in a pale grey to pinkish grey, aphanitic, orthoclase rich matrix. Phenocrysts comprise 10-

30% of the rock, and vary in size between 4-10 millimetres, and more rarely 10-20 millimetres. Distinct intrusive contacts and chill margins are observed. Pseudoleucite megaporphyry comprises 3-10% 2-4 centimetre, subhedral diffuse to euhedral pseudoleucite megacrysts and crystal fragments, and 3-5% 1-3 millimetre tabular orthoclase phenocrysts in a slate grey, fine grained matrix.

**(I3) GREY SYENITE PORPHYRY:**

I3 rocks are commonly brecciated and intensely orthoclase altered. Well mineralized sections are brecciated by a garnet rich hydrothermal breccia. I3 is comprised of 5-7%, bimodally distributed orthoclase phenocrysts set in a fine grained, salt-and-pepper textured, hornblende-biotite rich, altered matrix. Phenocrysts are milky white, subhedral, equant and rarely tabular 4-7 millimetre and 10-15 millimetre bodies. Hornblende is generally altered to biotite and chlorite. This unit was previously named dark syenite porphyry.

**(I4) DARK ORTHOCLASE SYENITE:**

Early dark syenite porphyry (I4a) is medium to dark grey, porphyritic, with 3-7%, 2-5 millimetre and 10-20 millimetre, subhedral to rounded, orthoclase phenocrysts set in a dark grey to pale brown or pink, fine grained groundmass. This unit hosts abundant disseminated and veined bornite and chalcopyrite. It grades, in places imperceptibly, into crystal lithic tuffs of unit V3, described above, and may be the subvolcanic equivalent of unit V3. Fragments of unit I4a are commonly found in unit V3.

Late dark syenite porphyry (I4b) occurs as rounded outcrops on surface and as irregular to tabular east dipping dykes. It is dark grey-green, porphyritic, with infrequent large, zoned, euhedral pseudoleucite phenocrysts 2-4 centimetres in size. Orthoclase phenocrysts 3-15 millimetres in size comprise 10-40% of the rock, and are matrix supported by a mixture of fine grained orthoclase, biotite and chlorite as alteration products.

**(I5) FINE GRAINED ORTHOCLASE SYENITE MEGAPORPHYRY:**

This unit is pale to medium brown, porphyritic, with 10-15%, 0.4-1.0 centimetre and rarely >3 centimetre sub- to euhedral orthoclase phenocrysts, and 5-7% 2-3 millimetre plagioclase phenocrysts. Also present and characteristic of this rock are euhedral 1-2 millimetre, and rarely 7-10 millimetre hornblende phenocrysts forming 3-5% of the rock. The groundmass is fine grained, brownish grey, and hematite rich. Pale brown, disseminated garnet is common as an alteration product. This unit is equivalent in large part to previously mapped "garnet syenite megaporphyry".

**(I6/I8) EQUIGRANULAR AND PORPHYRITIC SYENITES:**

This closely related family of syenites occur as tabular and irregular, anastomosing, steep dykes. They are distinguished primarily on matrix and phenocryst size differences.

Fine grained syenite (I6) is a medium green-grey, equigranular, fine grained intergrowth of orthoclase, altered hornblende and epidote.

Fine grained syenite porphyry (I7) is greenish grey, and composed of 2-5%, 2-10 millimetre, subhedral, tabular, and equant orthoclase phenocrysts set in a greenish, often epidote rich, fine grained groundmass of orthoclase altered hornblende and epidote. The rock is locally crystal poor, and texturally equivalent to I6 and I8.

Medium grained syenite (I8) is a medium green to grey, equigranular intergrowth of orthoclase, altered hornblende, epidote, and rare 2-5 millimetre orthoclase phenocrysts.

(I9) MEDIUM GRAINED ORTHOCLASE SYENITE MEGAPORPHYRY:

This late to post-mineral unit contains 10-30%, euhedral, often tabular orthoclase megacrysts (1-3 centimetres) in a medium to rarely coarse grained, orthoclase rich groundmass. The orthoclase megacrysts are often zoned peristerite. Chlorite and biotite pseudomorphs after hornblende form 3-7% of the rock. Subhedral plagioclase occurs in the matrix, and occupies 5-10% of the rock. Epidote and garnet commonly occur as disseminated alteration phases, and locally in vugs. In thin section, the matrix also contains pseudoleucite, magnetite, zircon, sphene, apatite and pyroxene. This unit is equivalent to the epi-syenite megaporphyry of Allen (1966) and other past workers.

(I10) PLAGIOCLASE SYENITE PORPHYRY:

Unit I10 is brownish to brownish grey, and found as steep dykes. An aphanitic to fine grained matrix supports 3-10%, 3-5 millimetre plagioclase phenocrysts. The matrix is generally hematite altered. This unit may in large part be equivalent to unit I11.

(I11) MEDIUM GRAINED SYENITE PORPHYRY:

This unit is common as sub-vertical dykes. The rock is generally pinkish brown to grey, porphyritic, with 3-7% 2-3 millimetre and rarely 5-10 millimetre subhedral orthoclase phenocrysts, set in a fine to medium grained, orthoclase rich groundmass. Sericite patches, possibly after plagioclase, comprise 2-3% of the rock, and are composed of light green, felted masses 0.5-1 millimetre in diameter. Chloritized hornblendes or pyroxene 1-2 millimetres in size are rare.

(CCP) COPPER CANYON PORPHYRY:

Unit includes two primary textural phases, one is pseudoleucite dominant (CCPp) and the other K-feldspar dominant (CCPo). These two phases grade imperceptibly from one to the other, on the order of tens of centimetres to tens of meters. CCPp consists of 30-50% rounded to euhedral 0.2-0.6 centimetre phenocrysts of pseudoleucite with subordinate (10-25%) 0.2-1 centimetre tabular, euhedral K-feldspar crystals set in a fine-grained equigranular groundmass consisting primarily of K-feldspar and biotite. The K-feldspar-dominant phase (CCPo) consists of 30-50% euhedral tabular laths of orthoclase (0.3 - 2 cm), with subordinate pseudoleucite (5-20%) set in an aphanitic to microcrystalline K-feldspar-rich groundmass. This phase often shows a trachytic texture. K-feldspar alteration, where adjacent to discordant orthoclase-bearing veins, results in pervasive and selective styles of replacement. The strongest altered zones, however, include abundant secondary biotite that occurs as disseminations and veins; biotite locally forms coarse-grained euhedral with clots and veins of chalcopyrite. Chalcopyrite also occurs as disseminations throughout the unit in amounts up to 10%.

(VJP) JUNCTION PORPHYRY & (WFP) WEST FORK PORPHYRY:

Visually the junction porphyry and west fork porphyry are similar, with the distinction between the names arising from the areas in which they occur. The porphyries are a dark grey-green colour. The aligned orthoclase and hornblende phenocrysts give the rock its characteristic trachytic texture. The orthoclase phenocrysts range from 0.3mm x 5mm up to 4mm x 15mm; orthoclase comprises up 5-10% of the rock. Fine grained biotite comprises 15-20% of the rock and is typically altered to chlorite. The hornblende content is absent to 5% and is often altered to chlorite and epidote. Fine grained magnetite is common.

## **BRECCIAS**

### (B1) HYDROTHERMAL BRECCIA:

Hydrothermal breccias are characterized by subangular, rotated clasts of grey syenite porphyry, pseudoleucite porphyry and intermediate and mafic volcanic rocks. In most cases, the breccias are framework supported, with an interstitial matrix of brown garnet, anhydrite, orthoclase, biotite +/-diopside. The breccia is moderately to strongly mineralized. The main copper mineral is chalcopyrite, which occurs as disseminations and stringers.

### (B2) DIATREME BRECCIA:

Diatreme breccia clasts are rounded to subangular, and form lapilli-sized fragments to fragments several tens of centimetres across. Clasts are generally orthoclase altered, in places quite strongly, and sit in a matrix of sand and silt sized particles.

### (B3) ORTHOMAGMATIC BRECCIA:

The term Orthomagmatic Breccia has been used in the past interchangeably with Hydrothermal Breccia, however the two units are distinctively different. Orthomagmatic Breccias are multi-lithic, unsorted, with rounded to angular clasts, which are found in a magmatic, often porphyritic, matrix.

## **POST-MINERAL DYKES**

Mafic dykes (D2) are dark, reflecting a high mafic component. Intermediate dykes (D3) are medium to dark grey-green, and rarely porphyritic. Felsic dykes (D4) are aphanitic and more rarely porphyritic, light grey to buff, and contain no mafic minerals. Lamprophyre dykes (D1) are biotite and/or hornblende rich, and fine to medium grained.

### 7.3 Summary of Drill Results

The following section describes the geology and mineralization encountered in drill hole CC06-0032 from the 2006 drilling program. A copy of the drill log can be found in Appendix VI, along with a north-south cross section of the drill hole showing the lithology, gold values greater than 0.1 g/t Au, and copper values greater than 0.1% Cu. ALS Chemex assay certificates and analytical protocols are in Appendices VII and VIII, respectively. A map of the drill collar location can be found in Figure 3.

Assay composites for drill hole CC06-0032 are summarized in Table 3 below and a brief drill hole summary follows. Copper equivalent values were calculated using prices of \$375US/oz for gold, \$0.90US/lb copper and \$5.50US/oz silver. Criteria for establishing the following assay composites include averaging minimum 10 metre intervals of individual assay results over a 0.25% copper equivalent cut-off. Provision was made to allow for two consecutive sample intervals below the cut-off value within any given composite.

**Table 3 – 2006 Copper Canyon Assay Composites**

Hole ID	From (m)	To (m)	Assayed Length (m)	CuEq %	Cu %	Au (g/t)	Ag (g/t)
CC06-0032	80.00	110.65	30.65	0.465	0.01	0.742	0.478
CC06-0032	209.00	219.00	10.00	0.422	0.014	0.665	0.4
CC06-0032	454.50	487.50	33.00	0.375	0.015	0.583	0.604

#### **DDH CC06-0032**

This drill hole was designed to intercept and extend inferred resources by stepping out north-westerly from the previous drill collars and the westerly-dipping, tabular shaped, mineralization model. The drill hole location was based on a north-west dipping ore target derived from pre-existing drill hole data using the 3-D modelling software MineSight®. The lithology of this hole is mainly comprised of a heterolithic orthomagmatic breccia (B3b), with small intervals of the Copper Canyon porphyries (CCPo and CCPp). All units were subsequently intruded by late D2, D3, and D4 dykes and a two metre fault zone is observed at approximately 110 m.

The breccia contains approximately 10% rounded to sub-angular polyolithic clasts hosted in an orthoclase and pseudoleucite-rich igneous matrix. Clasts are generally matrix-supported but locally clast density and size increases to 20% gravel and pebble and the breccia becomes clast-supported. Clast type ranges from a trachytic orthoclase porphyry to an orthoclase-phyric Copper Canyon Porphyry (CCPo) and a pseudoleucite-phyric Copper Canyon Porphyry (CCPp).

The CCPo and CCPp exist as small 10 to 30 metre intervals and the two units are generally medium to dark pinkish grey due to moderate orthoclase alteration and hematite staining. Orthoclase phenocrysts in the CCPo range from 1 to 2 cm and comprise 5 to 15% of the unit. Pseudoleucite crystals exist as small 0.5 to 0.7 cm crystals and comprise 1 to 5% of the unit. The CCPp contains 5 to 25%, 0.5 to 1.0 cm pseudoleucite phenocrysts that are commonly euhedral and zoned. Subhedral orthoclase phenocrysts are sometimes present in CCPp and may comprise up to 7% of the unit.

All the lithologies, with the exception of the later dykes, display greater than 20% orthoclase alteration and trace to weak biotite and chlorite alteration. Disseminated red hematite is ubiquitous and gives most of the units a reddish colouring. Mineralization is characterized by pyrite and to a much lesser extent, by chalcopyrite. Pyrite mineralization averages between 1 to 1.5% throughout the drill hole with more concentrated intervals up to 3%. The pyrite crystals encountered are mostly cubic and well formed and a small proportion has resorbed edges. Intervals of elevated gold values are loosely tied with strong pyrite mineralization.

## **8.0 DISCUSSION & CONCLUSIONS**

Previous drilling at Copper Canyon has shown that copper mineralization encountered thus far is hosted primarily by syenite intrusions of the Copper Canyon Porphyry complex. Mineralization appears to have a north-south trend and a moderate westerly dip. Both strike directions remain open for expansion. Drill hole CC05-0030 from last year appears to close off mineralization to the east, though this interpretation is preliminary.

Drilling by NovaGold in 2004 focused on confirming the existence of a copper-gold alkalic porphyry system and resulted in the estimation of a pre-feasibility level inferred resource on the property containing 2.86 million ounces of gold, 37.9 million ounces of silver and 1.16 billion pounds of copper at a 0.35% copper equivalent cut-off grade by Hatch et al. (2005). In 2005, NovaGold's drilling efforts were designed to further expand the Copper Canyon deposit, but only marginal results were returned. However, a narrow vein-like high-grade gold intercept that contained 50.6 g/t Au over 2.5 metres was encountered in CC05-0031 and increased the number of mineralization styles that can be targeted in future programs.

In 2006, drill hole CC06-0032 was designed to intercept and extend inferred resources by stepping out north-westerly from the previous drill collars and the westerly-dipping, tabular shaped, mineralization model. Although copper mineralization was insignificant, several intervals with moderate gold mineralization were encountered. CC06-0032 appears to partially limit economic copper mineralization in the down dip projection of the deposit. The results emphasize the need to better understand the Doghouse Creek fault and its interaction with the deposit.

Future drilling on the Copper Canyon property will focus on the conversion of Inferred resources to Measured and Indicated, north and south extension of the known mineralization and/or, the testing of new ground within two kilometres of the resource, which includes proximal targets defined by soil and geophysical anomalies or geologic modelling and interpretation.

Depending on the approach, future drilling should concentrate first on testing the north and south strike continuity. Holes drilled north of the present drill coverage should endeavour to penetrate mineralization deeper than that encountered in hole CC05-0031. Additionally, several holes should be completed east of known mineralization to confirm the extent of mineralization. Holes drilled in year 2004 penetrated significant mineralization on the western side of the Doghouse fault. Very little is known about this terrain so several deep holes should test the extent of this mineralization.



**APPENDIX I**  
**REFERENCES**

## References

- Aiken, J.D. (1959); Atlin Map-area, British Columbia, *Geological Survey of Canada*, Memoir 307, 89 Pages.
- Allen, D.G. (1966); Mineralogy of Stikine Copper's Galore Creek Deposits, Unpublished M.Sc. Thesis UBC, 38 Pages.
- Barr, D.A. (1966); The Galore Creek Copper Deposits, *CIM Bulletin*, Vol.59, Pages 841-853.
- Bottomer, L.R. and Leary, G.M. (1995); Copper Canyon porphyry copper-gold deposit, Galore Creek area, northwestern British Columbia: Part C, Porphyry Copper (+/-Au) Deposits of the Alkalic Suite, *Paper 47, in Porphyry Deposits of the Northwestern Cordillera of North America*, CIM Special Volume 46.
- de Rosen-Spence, A. (1985); Shoshonites and Associated Rock of Central British Columbia, *B.C. Ministry of Mines and Petroleum Resources*, Paper 1985-1, Pages 426-442.
- Hatch Ltd., GR Technical Services Ltd., and Giroux Consultants Ltd. (2005); Geology and Resource Potential of the Copper Canyon Property Feb. 2005, *Technical report for NovaGold Resources Inc.*
- Kerr, F.A. (1948); Lower Stikine and Western Iskut River Areas, B.C.; *Geological Survey of Canada*, Memoir 246.
- Logan, J.M., Victor, M., Koyanagi and Rhys (1989); Geology and Mineral Occurrences of The Galore Creek Area, NTS 104G/03 and 04, *Province of British Columbia, Ministry of Energy, Mines and Petroleum Resources*, Mineral Resources Division, Geological Survey Branch, Open File 1989-8 (2 sheets).
- Monger, J.W.H.(1970); Upper Palaeozoic Rocks of Western Cordillera and Their Bearing on Cordillera Evolution. *Canadian Journal of Earth Sciences*, Vol. 14, Pages 1832-1859.
- Moroney, M.J.(1969); Facts From Figures, Page 422.
- Mortensen, J.K., Ghosh, D. and Ferri, F. (1995): U-Pb age constraints of intrusive rocks associated with copper-gold porphyry deposits in the Canadian Cordillera in *Porphyry Copper ( $\pm$  Au) Deposits of the Alkalic Suite – Paper 46*, CIM Special Volume 46, Pages 142-158.
- Panteleyev, A (1975); Galore Creek Map-Area, *B.C. Dept. of Mines and Petroleum Resources*, Geological Field Work, 1975, In press.
- Simpson, R.G. (2003); Independent Technical Report for the Galore Creek Property, *A report prepared for SpectrumGold Inc.*
- Souther, J.G. (1972); Telegraph Creek Map Area, British Columbia, *Geological Survey of Canada*, Paper 71-44, 38 Pages.
- Tipper, H.W., Richards, T.A.(1976); Jurassic Stratigraphy and History of North-Central British Columbia, *Geological Survey of Canada*, Bulletin 270, 73 Pages.
- Termuende, T.J. (2002); Geological Report for the Copper Canyon Project, Kopper King 1-2, KK 3-4 Claims (Tenure numbers 389151-52; 395836-7) Liard Mining Division NTS Map Sheets 104G013, 014 UTM 6334000/357000, *Internal report prepared for Eagle Plains Resources Ltd.*

**APPENDIX II**

**STATEMENT OF EXPENDITURES**

## STATEMENT OF EXPENDITURES

### Copper Canyon Diamond Drilling Program Period: July 22, 2006 to August 20, 2006

Direct Drilling Expenditures (489 metres) <i>Hy-Tech Drilling Ltd.</i>	\$53,776.00
Indirect Drilling Expenditures (fuel, food)	\$6,733.65
Helicopter Costs (drill mobilization, support, demobilization)	\$31,066.25
Assays (254 samples)	\$12,168.22
Personnel (Drill pad building/reclamation, geologists, geotechs, core sawyers, drillers, pilots)	\$4,948.17
Report Preparation	\$1,500.00
<hr/>	
TOTAL WORK AVAILABLE FOR ASSESSMENT CREDIT:	<b>\$110,192.29</b>
TOTAL WORK FILED FOR ASSESSMENT CREDIT:	\$90,756.09
BALANCE APPLIED TO NOVAGOLD CANADA INC. PAC ACCOUNT (146832):	\$19,436.20

**APPENDIX III**

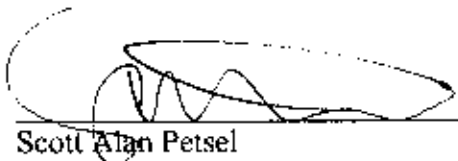
**STATEMENTS OF QUALIFICATION**

## GEOLOGIST'S CERTIFICATE

I, Scott Alan Petsel, of 10619 Horizon Drive, Juneau, Alaska, 99801, USA, DO  
HEREBEY CERTIFY THAT:

- 1) I am a geologist in the minerals exploration industry employed by NovaGold Resources Inc., 2300-200 Granville Street, Vancouver, B.C., V6C 1S4.
- 2) I am a 1987 graduate of the Fort Lewis College, Durango, Colorado, USA with a Bachelor of Science in Geology.
- 3) I have practiced my profession with various mining companies in Colorado, Arizona, Alaska, and Nevada in the United States, internationally in the Philippines, Mexico, Russia and Canada (Ontario and British Columbia) for 18 years.
- 4) I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
- 5) I am a Certified Professional Geologist (CPG 10071), as certified by the American Institute of Professional Geologists (AIPG).
- 6) I have no interest in the property herein.

DATED at Juneau, Alaska, U.S.A. this 14<sup>th</sup> day of February 2007.

  
\_\_\_\_\_  
Scott Alan Petsel

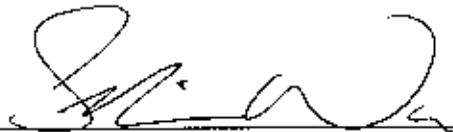


**GEOLOGIST'S CERTIFICATE**

I, Wai Ming Selina Wu, of 5491 Wagtail Avenue, Richmond, British Columbia, V7E 4V8, Canada, DO HEREBY CERTIFY THAT:

- 1) I am a geologist in the minerals exploration industry employed by NovaGold Resources Inc., 2300-200 Granville Street, Vancouver, B.C., V6C 1S4.
- 2) I am a 2006 graduate of the University of British Columbia with a Bachelor of Science in Geological Sciences.
- 3) I have practiced my profession with mining companies in British Columbia and the Northwest Territories for one and a half years.
- 4) I have no interest in the property herein.

DATED at Vancouver, British Columbia, Canada this 14<sup>th</sup> day of February 2007.

  
\_\_\_\_\_  
Wai Ming Selina Wu

**APPENDIX IV**

**DOWNHOLE SURVEY RESULTS**



**CC06-0032 Downhole Survey Results**

Depth	Code	Raw Azimuth	Raw Dip	Magnetic Field	Azimuth	Dip
30	-39	109.5	-81.3	6999	131.5	-81.3
60	-39	110.9	-81.4	6982	132.9	-81.4
90	39	119.8	-80.7	6962	141.8	-80.7
120	39	117.6	-80.4	6952	139.6	-80.4
150	39	117.6	-80.5	6906	139.6	-80.5
180	39	122.0	-80.3	6965	144.0	-80.3
210	39	119.2	-80.0	6966	141.2	-80.0
240	37	224.4	-79.8	5986	145.0	-79.8
270	39	127.4	-80.0	6759	149.4	-80.0
300	39	127.9	-79.8	6838	149.9	-79.8
330	39	128.6	-79.6	6792	150.6	-79.6
360	39	129.9	-79.4	6767	151.9	-79.4
390	39	131.1	-79.4	6794	153.1	-79.4
420	39	132.3	-79.2	6797	154.3	-79.2
450	39	133.6	-79.2	6808	155.6	-79.2
480	39	133.3	-79.0	6817	155.3	-79.0

*Reflex Camera Codes:* 39 - Reflex Camera-Measurement Good.  
-39 - Reflex Camera-Measurement Rejected.  
38 - Reflex Camera-Rejected Dip (Azm accepted, Dip fixed by hand).  
37 - Reflex Camera-Rejected Azimuth (Dip accepted, Azm fixed by hand).

## **APPENDIX V**

### **LITHOLOGIC CLASSIFICATION**

## GALORE CREEK AND COPPER CANYON PROJECT ROCK CODES

Numeric	Alpha	Description	Numeric	Alpha	Description
100	<b>S</b>	<b><u>Sedimentary Rocks</u></b>	300	<b>I</b>	<b><u>Intrusive Rocks</u></b>
110	S1	Conglomerate	310	<b>I1</b>	<b>Pseudoleucite Porphyry</b>
120	S2	Greywacke	320	<b>I2</b>	<b>Pseudoleucite Mega-Porphyry</b>
130	S3	Siltstone	330	<b>I3</b>	<b>Grey Syenite Porphyry</b>
140	S4	Argillite	331	CCPo	<b>Copper Canyon Porphyry - Orthoclase</b>
150	S5	Limestone	332	CCPp	<b>Copper Canyon Porphyry - Pseudoleucite</b>
160	S6	Epiclastic	340	<b>I4</b>	<b>Dark Orthoclase Syenite</b>
170	S7	Diamictite	343	I4a	Early Phase
			344	I4ab	Early/Late
			345	I4b	Late Phase
200	<b>V</b>	<b><u>Volcanic Rocks</u></b>	350	<b>I5/I9</b>	<b>Orthoclase Syenite Mega-Porphyry</b>
210	<b>V1</b>	<b>Augite Bearing</b>	351	I5	Fine Grained (early)
211	V1a	Flow	352	I9	Medium Grained
212	V1b	Porphyritic	353	I9a	Early Phase
213	V1c	Flow Breccia	354	I9ab	Early /Late
214	V1a/b	Porphyritic Flow	355	I9b	Late Phase
215	V1e	Coarse Lapilli Tuff	360	<b>I6/I8</b>	<b>Syenite</b>
216	V1f	Fine Lapilli Tuff	361	I6	Fine Grained
217	V1g	Ash Tuff	362	I8	Medium Grained
218	V1a/c	Flow/Flow Breccia Tuffs -			
219	V1e/h	Mixed/Undiff	363	I8a	Early Phase
220	<b>V2</b>	<b>Pseudoleucite Bearing</b>	365	I8b	Early /Late
221	V2a	Flow	367	<b>VJP</b>	<b>Junction Porphyry</b>
222	V2b	Porphyritic	368	<b>WFP</b>	<b>West Fork Porphyry</b>
223	V2a/b	Porphyritic Flow	370	<b>I7/I11</b>	<b>Syenite Porphyry</b>
224	V2c	Flow Breccia	371	I7	Fine Grained
225	V2e	Coarse Lapilli Tuff	374	I7b	Late Phase
226	V2f	Fine Lapilli Tuff	372	I11	Medium Grained
227	V2g	Ash Tuff	373	I11a	Early Phase
228	V2h	Crystal Lithic Tuff Tuffs -	380	<b>I10</b>	<b>Plagioclase Syenite Porphyry</b>
229	V2e/h	Mixed/Undiff	383	I10a	Early Phase
230	<b>V3</b>	<b>Orthoclase Bearing</b>	385	I10b	Late Phase
231	V3a	Flow	390	I12	<b>Lavender Syenite Porphyry</b>
232	V3b	Porphyritic			
233	V3a/b	Porphyritic Flow Flow/Fine Lapilli Tuff	400	<b>B</b>	<b><u>Breccia</u></b>
234	V3a/f	Tuff	410	<b>B1</b>	<b>Diatreme</b>
235	V3e	Coarse Lapilli Tuff	413	B1a	Monolithic Diatreme
236	V3f	Fine Lapilli Tuff	415	B1b	Heterolithic Diatreme
237	V3g	Ash Tuff	420	<b>B2</b>	<b>Hydrothermal</b>
238	V3h	Crystal Lithic Tuff Tuffs -	423	B2a	Monolithic Hydrothermal
239	V3e/h	Mixed/Undiff	425	B2b	Heterolithic Hydrothermal
240	<b>V4</b>	<b>Mafic</b>	430	<b>B3</b>	<b>Orthomagmatic</b>
241	V4a	Flow	433	B3a	Monolithic Orthomagmatic
242	V4b	Porphyritic	435	B3b	Heterolithic Orthomagmatic
243	V4a/b	Porphyritic Flow			
244	V4d	Breccia	500	<b>D</b>	<b><u>Dikes</u></b>
245	V4e	Coarse Lapilli Tuff	510	<b>D1</b>	<b>Lamprophyre</b>
246	V4f	Fine Lapilli Tuff	520	<b>D2</b>	<b>Mafic</b>
247	V4g	Ash Tuff	530	<b>D3</b>	<b>Intermediate</b>
248	V4h	Crystal Lithic Tuff Tuffs -	540	<b>D4</b>	<b>Felsic</b>
249	V4e/h	Mixed/Undiff			
250	<b>V5</b>	<b>Intermediate</b>	700	<b>FZN</b>	<b>Fault Zone</b>
251	V5a	Flow	900	<b>OVB</b>	<b>Overburden</b>
252	V5b	Porphyritic	999	<b>NR</b>	<b>No Recovery</b>
253	V5c	Flow Breccia			
254	V5d	Breccia			
255	V5e	Coarse Lapilli Tuff			
256	V5f	Fine Lapilli Tuff			
257	V5g	Ash Tuff			
258	V5h	Crystal Lithic Tuff Tuffs -			
259	V5e/h	Mixed/Undiff			
260	<b>V6</b>	<b>Felsic</b>			
266	V6f	Fine Lapilli Tuff			
267	V6g	Ash Tuff			

**APPENDIX VI**

**COPPER CANYON DIAMOND DRILL LOG  
AND DRILL SECTION**







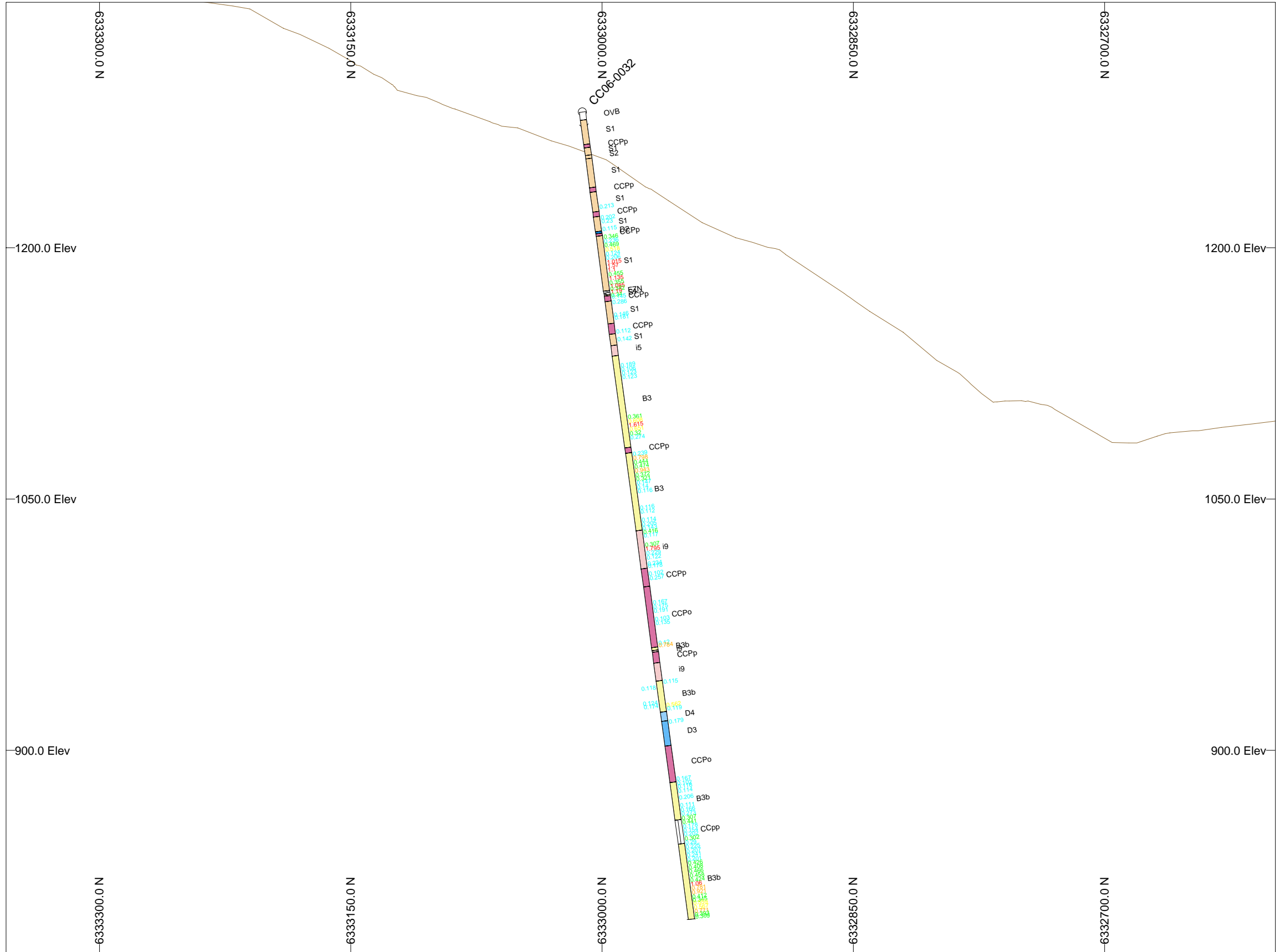












S SEDIMENTARY - Undivided
V1 VOLCANIC - Augite Bearing
V2 VOLCANIC - Pseudoleucite Bearing
V3 VOLCANIC - Orthoclase Bearing
V4 VOLCANIC - Mafic
V5 VOLCANIC - Intermediate
V6 VOLCANIC - Felsic
i1 INTRUSIVE - Pseudoleucite Porphyry
i2 INTRUSIVE - Pseudoleucite Megaporphyry
i3 INTRUSIVE - Grey Syenite Porphyry
i4 INTRUSIVE - Dark Orthoclase Syenite
i5 INTRUSIVE - Orthoclase Syenite Megaporphyry
i6 INTRUSIVE - Fine-grained Syenite
i7 INTRUSIVE - Syenite Porphyry
i8 INTRUSIVE - Medium-grained Syenite
i9 INTRUSIVE - Syenite Megaporphyry
i10 INTRUSIVE - Plagioclase Syenite Megaporphyry
i11 INTRUSIVE - Medium-grained Syenite Porphyry
i12 INTRUSIVE - Lavender Syenite Porphyry
CCP INTRUSIVE - Copper Canyon Porphyry
WFP INTRUSIVE - West Fork Porphyry
JP INTRUSIVE - Junction Porphyry
B1 BRECCIA - Diatreme
B2 BRECCIA - Hydrothermal
B3 BRECCIA - Orthomagmatic
D1 DIKES - Lamprophyre
D2 DIKES - Mafic
D3 DIKES - Intermediate
D4 DIKES - Felsic
OVB - Overburden

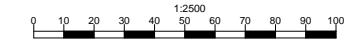
— Topography

Cu Assay Values	Au Assay Values
0.1 to 0.30 (%)	0.1 to 0.30 (g/t)
0.30 to 0.50 (%)	0.30 to 0.50 (g/t)
0.50 to 0.75 (%)	0.50 to 0.75 (g/t)
0.75 to 1.0 (%)	0.75 to 1.0 (g/t)
1.0 to 2.0 (%)	1.0 to 2.0 (g/t)
> 2.0 (%)	> 2.0 (g/t)

Note: Au Values located on right hand side of drill trace.  
 Cu Values located on left hand side of drill trace.  
 Au Values below 0.1g/t are not shown.  
 Cu Values below 0.1 % are not shown.

**NovaGold Canada Inc.**  
**Copper Canyon Project**  
 British Columbia, Canada

Plate 1 : Copper Canyon Drill Section CC06-0032  
 Section 357700.00 E North South View (100 m thick)  
 Date: 08/02/07



**APPENDIX VII**  
**ASSAY CERTIFICATES**



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

A. S. Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 1  
Finalized Date: 14-AUG-2006  
This copy reported on 15-SEP-2006  
Account: SPEGOL

## CERTIFICATE VA06074434

Project: Galore 1915-72040-50

P.O. No.:

This report is for 80 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 4-AUG-2006.

The following have access to data associated with this certificate:

JACK COTE  
SCOTT PETSSEL  
MELISSA ZACK

STUART MORRIS  
JOE PIEKENBROCK

JIM MUNTZERT  
DANETTE SCHWAS

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample Login - Rod w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rod w/o BarCode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

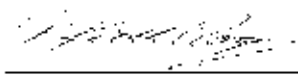
## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
AU-AA23	Au 30g FA AA finish	AAS

To: SPECTRUMGOLD INC.  
ATTN: JOE PIEKENBROCK  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

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.

Signature:

  
Keith Rogers, Executive Manager Vancouver Laboratory



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Branksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 964 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
 #2300 - 200 GRANVILLE STREET  
 VANCOUVER BC V6C 1S4

Page: 2 - A  
 Total # Pages: 3 (A - C)  
 Finalized Date: 14-AUG-2006  
 Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074434

Sample Description	Method Analyte Units LOR	WEI 21	Au AA23	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41
		Recvd Wt kg	Au ppm	Ag ppm	As %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Cu %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
147598		8.32	0.016	0.6	1.54	2	<10	70	0.8	<2	5.81	<0.5	18	26	280	4.57	
147599		8.02	0.008	0.2	1.70	6	10	530	1.4	<2	5.60	<0.5	18	36	148	4.22	
147600		9.10	0.011	9.7	0.38	6	<10	180	<0.5	3	0.85	<0.5	1	100	4420	0.91	
147601		9.38	0.015	0.4	1.73	9	10	420	0.9	<2	4.47	<0.5	15	16	206	3.57	
147602		8.86	0.026	0.5	1.59	9	10	80	0.8	<2	4.36	0.8	19	13	170	3.69	
147603		7.98	0.023	0.6	1.56	7	10	80	0.8	<2	4.36	1.0	17	13	179	3.84	
147604		9.00	0.015	0.6	1.42	8	10	150	0.8	<2	4.32	1.4	12	9	88	3.31	
147605		6.48	0.014	0.2	1.10	4	10	240	0.9	<2	4.57	<0.5	17	2	75	3.15	
147606		8.58	0.015	1.1	0.89	10	10	80	0.7	<2	4.98	1.4	10	10	235	3.99	
147607		1.97	<0.005	<0.2	0.04	<2	<10	40	<0.5	<2	>25.0	<0.5	<1	<1	2	0.06	
147608		7.42	0.018	0.5	1.82	13	10	60	0.8	<2	5.38	<0.5	18	5	304	3.65	
147609		8.10	0.018	0.3	1.36	11	10	1280	1.2	<2	7.05	<0.5	14	8	170	4.34	
147610		10.58	0.014	0.3	2.02	7	10	120	1.0	<2	5.21	<0.5	10	7	110	4.15	
147611		<0.07	0.014	0.3	2.09	4	10	110	1.0	<2	5.40	<0.5	12	7	105	4.32	
147612		9.88	0.008	0.3	2.06	7	10	420	1.0	<2	5.16	<0.5	10	8	110	4.12	
147613		9.76	0.013	0.4	2.07	5	10	170	1.2	<2	5.29	<0.5	12	8	46	4.15	
147614		10.78	0.022	0.6	2.03	12	10	1010	1.2	<2	5.86	<0.5	11	10	85	4.11	
147615		3.34	0.045	0.7	1.66	16	10	70	0.9	<2	6.15	<0.5	13	23	126	4.67	
147616		9.92	0.025	0.5	1.24	13	10	30	1.0	<2	4.61	1.2	23	6	97	4.62	
147617		7.82	0.020	0.5	1.47	12	<10	40	0.8	<2	5.51	<0.5	17	18	77	4.94	
147618		0.10	0.504	0.5	1.14	7310	60	20	<0.5	18	6.31	<0.5	174	12	80	3.75	
147619		0.00	0.060	0.9	1.58	15	10	70	0.9	<2	6.81	<0.5	11	30	105	4.70	
147620		5.58	0.041	0.4	1.67	9	10	150	1.6	<2	5.09	<0.5	9	3	128	3.85	
147621		4.82	0.021	0.3	1.62	8	10	100	1.5	<2	4.59	0.9	11	4	98	3.70	
147622		7.86	0.023	0.4	1.48	4	10	60	0.8	<2	5.39	0.9	13	27	118	4.76	
147623		9.26	0.040	1.0	0.76	11	10	20	0.6	<2	5.57	2.9	21	10	108	4.92	
147624		7.64	0.033	0.3	1.28	5	<10	40	0.8	<2	6.51	2.5	15	13	88	4.37	
147625		11.48	0.100	0.4	1.74	10	10	80	1.0	<2	6.15	<0.5	19	18	128	4.01	
147626		5.84	0.213	0.8	1.41	3	10	380	1.1	<2	6.26	<0.5	7	11	360	3.75	
147627		1.92	<0.005	<0.2	0.07	5	<10	30	<0.5	<2	>25.0	<0.5	<1	1	2	0.08	
147628		6.04	0.078	0.3	1.50	4	10	<20	1.1	<2	6.78	<0.5	10	13	89	4.34	
147629		11.66	0.099	0.4	1.10	9	10	100	0.9	<2	4.94	<0.5	7	5	143	3.56	
147830		<0.02	0.134	0.7	1.10	7	10	90	0.8	<2	4.80	<0.5	5	3	144	3.65	
147631		8.60	0.202	1.4	1.14	8	10	60	0.7	<2	4.86	<0.5	20	9	150	4.17	
147632		9.76	0.230	0.8	1.02	2	10	40	0.5	<2	5.29	<0.5	17	6	117	3.98	
147633		9.48	0.086	0.5	0.93	5	<10	50	0.5	<2	6.05	<0.5	14	7	128	3.74	
147634		6.78	0.115	0.7	0.71	7	<10	40	0.5	<2	5.32	<0.5	13	5	86	3.70	
147635		4.96	0.068	0.4	1.08	9	<10	980	1.1	<2	4.43	<0.5	12	18	15	4.85	
147636		4.42	0.091	0.4	0.71	6	<10	1050	0.6	<2	2.26	<0.5	4	1	24	2.08	
147637		0.17	0.010	9.3	0.42	8	<10	180	<0.5	2	3.81	<0.5	1	100	4430	0.91	

Comments: \*\*CORRECTED COPY FOR ME-ICP41 ON SAMPLE 147637\*\*



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

A S Canada Ltd

212 Brookbank Avenue  
North Vancouver BC V7J 2G1

Phone: 604 984 1121 Fax: 604 984 0216 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 14-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074434

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Vg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
147598		10	<1	1.48	20	1.42	3330	7	0.04	14	2030	31	2.19	<2	14	492
147599		10	<1	1.52	20	1.38	3780	8	0.05	16	1870	7	0.51	2	14	465
147600		<10	<1	0.19	10	0.09	255	788	0.05	4	340	16	0.44	17	1	265
147601		10	<1	1.44	20	1.26	3170	7	0.05	11	1620	04	0.49	2	11	451
147602		10	<1	1.33	20	1.00	2680	10	0.05	9	1390	144	1.20	4	9	441
147603		10	<1	1.30	20	0.94	2550	15	0.04	8	1320	07	1.52	<2	8	425
147604		10	<1	1.11	20	0.73	2520	18	0.04	5	1240	184	0.87	<2	7	407
147605		<10	<1	0.02	20	0.30	2420	6	0.05	4	1040	46	0.71	3	6	416
147606		<10	<1	0.73	20	0.56	3380	1	0.04	7	1270	64	1.26	41	8	234
147607		<10	<1	0.02	<10	2.22	62	<1	0.03	<1	70	2	<0.01	2	<1	5980
147608		10	-	0.80	20	0.62	3010	6	0.04	5	1180	126	1.92	12	7	282
147609		10	<1	1.12	20	1.22	4480	6	0.04	8	3220	15	0.33	5	20	382
147610		10	<1	1.60	20	1.52	4820	2	0.05	6	1470	31	1.14	2	9	368
147611		10	<1	1.65	20	1.59	4980	2	0.05	5	1490	32	1.26	2	10	378
147612		10	1	1.55	20	1.28	5380	1	0.07	6	1300	24	0.55	2	9	315
147613		10	<1	1.53	20	1.16	5170	5	0.05	5	1180	39	1.10	3	8	345
147614		10	<1	1.53	20	1.50	7010	1	0.05	5	1410	62	0.44	4	10	320
147615		10	<1	1.40	30	1.33	5640	3	0.04	12	1420	41	2.83	<2	11	414
147616		10	<1	0.99	20	1.09	5670	5	0.04	5	1610	209	2.84	4	10	207
147617		10	<1	1.26	20	1.22	4880	2	0.04	9	1300	40	3.98	3	10	411
147618		<10	<1	0.05	10	0.24	709	12	0.09	31	1310	11	1.48	15	2	104
147619		10	1	1.28	20	1.33	6770	-	0.04	14	1490	90	2.03	3	12	388
147620		10	<1	1.19	20	0.91	3710	-	0.03	3	1240	56	0.98	2	7	458
147621		10	<1	1.19	20	0.83	2660	<1	0.04	2	1200	72	1.40	<2	0	451
147622		10	<1	1.26	20	1.16	3930	4	0.04	15	1440	210	4.04	3	9	383
147623		<10	<1	0.66	10	1.00	3650	4	0.02	9	1410	174	4.45	13	8	332
147624		10	<1	1.08	30	1.16	3970	49	0.03	9	1470	140	3.02	<2	0	426
147625		10	<1	0.98	20	1.14	4060	60	0.03	10	1470	40	1.74	17	10	408
147626		10	<1	1.12	20	1.38	4270	49	0.03	9	1530	98	0.64	2	10	438
147627		<10	<1	0.02	<10	2.24	75	<1	0.02	<1	90	2	<0.01	7	<1	5690
147628		10	<1	1.17	20	1.47	5140	43	0.03	9	1570	18	0.83	<2	11	433
147629		10	<1	0.80	20	0.83	3770	42	0.03	4	1270	12	1.04	7	7	489
147630		10	<1	0.80	20	0.82	3770	41	0.03	3	1200	10	1.04	2	7	479
147631		10	<1	0.91	20	1.16	4960	92	0.03	8	1580	43	1.81	5	9	391
147632		10	<1	0.80	20	0.79	3610	178	0.03	6	1320	27	2.45	<2	7	327
147633		10	-	0.69	20	0.66	3590	107	0.03	4	1380	11	2.08	5	7	350
147634		<10	<1	0.52	30	0.43	3370	164	0.04	5	1280	6	2.00	3	7	344
147635		10	-	1.36	100	1.75	5230	1	0.04	15	1760	15	0.16	4	16	276
147636		<10	<1	0.54	40	0.61	2390	1	0.03	<1	750	19	0.15	<2	3	251
147637		<10	<1	0.20	<10	0.09	239	783	0.04	4	370	16	0.42	17	-	267

Comments: \*\*CORRECTED COPY FOR ME-ICP41 ON SAMPLE 147637\*\*





# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brooksbark Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 14-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074434

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
147598		0.09	<10	<10	176	<10	136
147599		0.10	<10	<10	185	<10	121
147600		0.01	<10	<10	9	<10	32
147601		0.08	<10	<10	169	<10	105
147602		0.07	<10	<10	152	<10	132
147603		0.06	<10	<10	153	<10	132
147604		0.05	<10	<10	153	<10	160
147605		0.02	<10	<10	106	<10	79
147606		0.02	<10	<10	106	<10	135
147607		<0.01	<10	<10	2	<10	2
147608		0.02	<10	<10	96	<10	76
147609		0.06	<10	<10	181	<10	94
147610		0.10	<10	<10	191	<10	101
147611		0.10	<10	<10	198	<10	105
147612		0.13	<10	<10	238	<10	108
147613		0.08	<10	<10	218	<10	115
147614		0.12	<10	<10	239	<10	136
147615		0.09	<10	<10	264	<10	114
147616		0.03	<10	<10	153	<10	153
147617		0.06	<10	<10	228	<10	99
147618		0.05	<10	<10	35	<10	91
147619		0.11	<10	<10	278	<10	110
147620		0.06	<10	<10	189	<10	85
147621		0.07	<10	<10	183	<10	153
147622		0.06	<10	<10	160	<10	410
147623		0.03	<10	<10	119	<10	294
147624		0.06	<10	<10	178	<10	231
147625		0.06	10	<10	177	<10	121
147626		0.07	<10	<10	216	<10	157
147627		0.01	<10	<10	4	<10	3
147628		0.09	<10	<10	263	<10	141
147629		0.06	<10	<10	185	<10	69
147630		0.06	<10	<10	187	<10	69
147631		0.05	<10	<10	176	<10	101
147632		0.05	<10	<10	164	<10	75
147633		0.05	<10	<10	143	<10	53
147634		0.07	<10	<10	160	<10	31
147635		0.15	<10	<10	314	<10	99
147636		0.02	<10	<10	71	<10	31
147637		0.01	<10	<10	9	<10	34

Comments: \*\*CORRECTED COPY FOR ME-ICP41 ON SAMPLE 147637\*\*



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada LLC

212 Brockbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 14-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074434

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	VE-ICP41	MF-ICP41	MF-ICP41	ME-ICP41	ME-ICP41	MF-ICP41	ME-ICP41	MF-ICP41	ME-ICP41	MF-ICP41	ME-ICP41	MF-ICP41	ME-ICP41	MF-ICP41	ME-ICP41
		Revd Wt kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %		
147638		9.34	0.346	0.5	0.57	17	<10	20	0.5	<2	6.55	<0.5	10	5	100	4.48		
147639		8.66	0.236	1.0	0.58	17	<10	20	0.5	<2	5.35	2.0	12	4	105	4.41		
147640		8.64	0.469	0.7	0.77	10	<10	70	0.7	<2	5.60	<0.5	13	11	141	3.61		
147641		9.20	0.518	0.7	0.62	11	<10	20	0.6	<2	5.81	<0.5	13	7	152	4.14		
147642		8.06	0.124	0.5	0.57	24	<10	20	0.5	<2	5.81	<0.5	11	5	162	4.21		
147643		2.22	<0.005	<0.2	0.03	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	1	0.04		
147644		8.60	0.206	0.8	0.61	19	10	30	0.6	<2	6.39	<0.5	13	5	168	4.37		
147645		8.14	1.015	0.3	0.88	6	10	70	0.7	<2	6.10	<0.5	14	5	91	3.69		
147646		9.56	1.570	0.5	1.04	5	10	100	0.8	<2	6.39	<0.5	15	7	137	3.42		
147647		<0.02	1.085	0.5	1.07	11	10	100	0.8	<2	6.45	<0.5	15	7	154	3.39		
147648		7.58	1.100	0.3	1.44	10	10	220	0.9	<2	6.78	<0.5	10	6	38	3.69		
147649		8.80	0.455	0.3	1.33	4	10	220	0.7	<2	6.78	<0.5	16	7	27	3.32		
147650		7.72	1.135	0.3	1.08	4	10	320	0.7	<2	6.15	<0.5	15	6	30	3.35		
147651		8.46	0.355	0.3	1.12	4	10	420	0.6	<2	5.94	<0.5	9	5	66	3.18		
147652		6.68	1.085	0.6	0.76	5	10	390	0.8	<2	6.12	<0.5	10	5	24	3.20		
147653		6.48	0.342	1.0	0.64	24	10	80	0.7	<2	6.19	<0.5	12	2	142	4.34		
147654		11.14	1.190	0.7	0.68	24	10	50	0.6	<2	5.44	<0.5	12	5	112	4.14		
147655		3.18	0.340	0.5	0.66	<2	10	170	0.6	<2	7.02	<0.5	17	4	82	3.57		
147656		0.10	0.436	0.6	1.06	0910	50	20	<0.5	15	5.00	<0.5	166	11	76	3.57		
147657		7.52	0.145	0.2	0.81	13	10	1070	1.2	<2	4.96	<0.5	6	3	104	3.00		
147658		4.04	0.080	0.3	0.84	2	10	1220	1.3	<2	4.78	<0.5	8	2	174	3.18		
147659		7.70	0.286	0.5	0.83	8	<10	120	0.7	<2	5.40	<0.5	7	7	114	3.60		
147660		9.18	0.093	0.3	1.00	0	<10	250	0.6	<2	6.30	<0.5	5	2	15	4.02		
147661		9.94	0.087	0.4	0.94	8	<10	120	0.7	<2	5.16	<0.5	8	8	26	4.00		
147662		8.96	0.146	0.4	0.97	5	10	80	0.7	<2	6.38	<0.5	13	6	119	3.46		
147663		4.40	0.181	0.7	1.38	9	10	270	0.9	<2	5.46	<0.5	7	10	145	4.04		
147664		8.04	0.098	1.4	1.18	7	10	210	0.7	<2	5.36	<0.5	10	5	114	3.69		
147665		2.04	<0.005	<0.2	0.03	<2	10	30	<0.5	<2	>25.0	<0.5	<1	<1	1	0.05		
147666		7.08	0.064	0.4	1.04	6	10	680	0.9	<2	3.75	<0.5	10	1	119	3.18		
147667		7.66	0.058	0.5	1.12	8	10	1030	1.2	<2	5.20	<0.5	9	3	136	3.55		
147668		8.40	0.112	0.3	0.96	<2	10	510	1.3	<2	5.53	<0.5	10	1	144	3.68		
147669		<0.02	0.161	0.3	1.02	<2	10	430	1.3	<2	5.44	<0.5	10	0	141	3.66		
147670		9.52	0.096	0.7	0.84	9	10	40	0.7	<2	5.76	<0.5	16	3	202	4.64		
147671		10.66	0.142	0.7	1.12	9	10	40	0.7	<2	5.87	<0.5	14	5	120	4.63		
147672		6.54	0.088	0.5	1.36	9	10	40	0.7	<2	5.16	<0.5	14	4	100	4.63		
147673		9.04	0.023	0.4	1.22	5	10	100	0.9	<2	4.41	<0.5	0	3	71	3.44		
147674		9.88	0.003	0.2	1.26	7	10	850	1.1	<2	4.64	<0.5	10	2	80	3.44		
147675		5.94	0.019	0.3	1.30	6	10	140	0.7	<2	4.02	<0.5	0	5	125	3.21		
147676		9.82	0.063	0.3	1.33	7	10	40	0.6	<2	5.77	<0.5	15	4	121	4.49		
147677		10.04	0.013	0.3	1.42	7	<10	50	0.6	<2	5.59	<0.5	16	6	43	4.08		

Comments: \*\*CORRECTED COPY FOR ME ICP41 ON SAMPLE 147637\*\*



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0210 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 14-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074434

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Si
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
147638		<10	<1	0.48	20	0.72	2690	41	0.03	5	1320	18	4.40	4	7	395
147639		<10	<1	0.47	10	0.71	2900	393	0.03	5	1290	175	3.45	21	8	314
147640		10	1	0.62	20	0.83	3710	5	0.03	6	1390	6	1.20	<2	8	406
147641		<10	1	0.53	20	0.83	3470	55	0.03	6	1350	8	3.18	<2	8	430
147642		<10	-	0.48	20	0.83	3350	62	0.03	6	1330	14	3.85	17	7	381
147643		<10	-	0.01	<10	1.96	47	<1	0.01	<1	70	<2	<0.01	2	<1	5600
147644		10	<1	0.52	20	0.92	3320	24	0.02	4	1400	6	3.60	18	8	576
147645		10	<1	0.77	20	1.11	3800	2	0.02	4	1460	5	1.30	<2	8	1060
147646		10	<1	0.86	20	0.94	3420	3	0.02	4	1470	8	1.14	<2	8	1745
147647		10	<1	0.91	20	0.93	3400	3	0.02	4	1440	6	1.10	3	8	1755
147648		10	<1	1.12	20	1.04	3520	3	0.02	3	1410	7	0.78	<2	9	1400
147649		10	<1	1.01	20	0.93	3170	10	0.02	4	1240	8	0.76	6	8	2090
147650		10	<1	0.83	20	0.95	3190	8	0.03	4	1230	9	0.64	3	7	2030
147651		10	<1	0.77	20	0.93	2950	2	0.02	4	1250	6	0.52	3	7	2300
147652		10	<1	0.61	20	0.94	2590	7	0.02	3	1220	9	0.52	5	6	1940
147653		<10	<1	0.50	20	1.06	2890	71	0.02	3	1290	27	1.30	49	8	1570
147654		<10	<1	0.51	10	0.85	2020	231	0.02	5	1150	22	1.72	24	6	1430
147655		<10	<1	0.53	20	0.75	2180	20	0.02	4	1190	5	0.80	3	8	1865
147656		<10	<1	0.05	10	0.25	864	12	0.08	26	1260	10	1.40	13	2	100
147657		<10	<1	0.63	20	0.56	1335	5	0.02	1	1160	9	0.20	3	5	1680
147658		10	<1	0.63	20	0.63	1470	1	0.02	3	1090	16	0.23	2	5	1585
147659		10	<1	0.70	20	0.83	1000	8	0.02	4	1290	25	0.93	3	8	2440
147660		10	<1	0.83	20	0.85	2450	10	0.03	5	1560	18	0.67	2	8	3230
147661		10	<1	0.78	20	0.84	2350	47	0.03	4	1370	61	0.85	<2	8	4310
147662		10	-	0.71	20	0.79	2040	59	0.03	4	1350	128	1.26	<2	7	6090
147663		10	<1	1.02	20	1.04	2330	265	0.04	6	1380	114	0.69	5	8	4470
147664		10	<1	0.86	20	0.90	2190	212	0.04	4	1410	251	0.85	5	7	5280
147665		<10	<1	0.02	<10	2.03	44	2	0.01	<1	70	4	<0.01	3	<1	6140
147666		10	<1	0.62	20	0.58	1290	89	0.03	2	1310	10	0.40	<2	4	3070
147667		10	<1	0.60	20	0.76	1370	2	0.03	1	1290	15	0.18	3	5	1960
147668		10	<1	0.60	30	0.69	1715	6	0.02	2	1270	10	0.72	<2	5	2430
147669		10	<1	0.61	30	0.69	1705	5	0.02	1	1260	11	0.70	3	5	2430
147670		10	<1	0.62	10	1.02	2110	318	0.02	3	1450	25	3.48	2	10	2210
147671		10	1	0.80	10	0.95	2080	35	0.02	2	1620	7	3.85	5	9	3780
147672		10	<1	0.92	10	1.08	1985	8	0.02	4	1700	11	3.05	<2	10	3910
147673		10	<1	0.66	20	0.82	1515	1	0.02	2	1360	7	1.92	3	6	3200
147674		10	<1	0.61	20	0.82	1420	<1	0.03	2	1330	8	0.27	2	6	1560
147675		10	<1	0.66	20	0.84	1670	29	0.02	2	1300	8	1.17	5	6	2260
147676		10	<1	1.12	20	1.20	2150	52	0.02	4	1870	6	3.31	4	11	2300
147677		10	<1	1.10	10	1.27	2350	34	0.02	5	1760	2	3.59	2	11	3090

Comments: \*\*CORRECTED COPY FOR ME-ICP41 ON SAMPLE 147637\*\*



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7L 2C1

Phone: 604 984 0221 Fax: 604 984 0210 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 14-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074434

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
147638		0.01	<10	<10	97	<10	26
147639		0.02	<10	<10	93	130	172
147640		0.05	<10	<10	165	<10	34
147641		0.02	<10	<10	107	<10	25
147642		0.01	<10	<10	82	<10	38
147643		<0.01	<10	<10	2	<10	<2
147644		0.01	<10	<10	93	<10	31
147645		0.03	<10	<10	150	<10	38
147646		0.04	<10	<10	156	<10	42
147647		0.04	<10	<10	160	<10	43
147648		0.05	<10	<10	180	<10	47
147649		0.05	<10	<10	165	<10	46
147650		0.06	<10	<10	70	<10	50
147651		0.05	<10	<10	152	<10	47
147652		0.02	<10	<10	95	<10	39
147653		0.01	<10	<10	82	<10	75
147654		0.01	<10	<10	94	<10	51
147655		0.01	<10	<10	137	<10	31
147656		0.04	<10	<10	32	<10	87
147657		0.03	<10	<10	120	<10	32
147658		0.03	<10	<10	132	<10	36
147659		0.03	<10	<10	178	<10	40
147660		0.12	<10	<10	233	<10	36
147661		0.10	<10	<10	215	<10	39
147662		0.09	<10	<10	192	<10	39
147663		0.13	<10	<10	256	<10	46
147664		0.09	<10	<10	221	<10	36
147665		<0.01	<10	<10	3	<10	<2
147666		0.03	<10	<10	151	<10	33
147667		0.05	<10	<10	179	<10	47
147668		0.04	<10	<10	152	<10	31
147669		0.03	<10	<10	166	<10	30
147670		0.03	<10	<10	197	<10	31
147671		0.05	<10	<10	187	<10	29
147672		0.07	<10	<10	201	<10	32
147673		0.03	<10	<10	164	<10	32
147674		0.03	<10	<10	170	<10	31
147675		0.04	<10	<10	164	<10	26
147676		0.07	<10	<10	205	<10	24
147677		0.07	<10	<10	204	<10	25

Comments: \*\*CORRECTED COPY FOR ME-ICP41 ON SAMPLE 147653\*\*



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brockbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0215 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 1  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

## CERTIFICATE VA06074570

Project: Galore 1915-72040-50

P.O. No.:

This report is for 78 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 4-AUG-2006.

The following have access to data associated with this certificate:

JACK COTE  
SCOTT PENSEL  
MELISSA ZACK

STUART MORRIS  
JOE PIEKENBROCK

JIM MUNTZERT  
DANETTE SCHWAR

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample Login - Red w/o BarCode
CRU-00	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Red w/o BarCode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

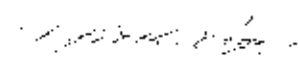
## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
AJ-AA23	Au 30g FA-AA finish	AAS

To: SPECTRUMGOLD INC.  
ATTN: JOE PIEKENBROCK  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

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.

Signature:

  
Keith Rogers, Executive Manager Vancouver Laboratory



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

A.S. Canada Ltd.

217 Brookbank Avenue  
North Vancouver BC V7J 2C7

Phone: 604 984 9221 Fax: 604 964 9218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074570

Sample Description	Method	WEI-21	Au AA03	VF ICP41	VE ICP41	ME-ICP41	ME-ICP41	ME ICP41	ME ICP41	ME ICP41	VE ICP41	VE ICP41	ME-ICP41	ME ICP41	ME-ICP41	ME-ICP41
	Analyte	Rec'd Wt	Au	Ag	A	As	B	Ba	Bu	Bi	Ca	Cl	Cu	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
147678		0.10	0.012	9.9	0.36	4	<10	180	<0.5	<2	0.87	<0.5	1	102	4330	0.92
147679		9.20	0.189	0.8	1.63	13	10	70	0.8	<2	5.28	<0.5	13	4	74	4.98
147680		10.48	0.106	0.5	1.48	36	10	60	0.6	<2	5.53	<0.5	16	4	42	4.56
147681		8.70	0.123	0.5	1.58	38	<10	90	0.5	<2	4.96	<0.5	13	4	176	4.39
147682		9.82	0.123	0.5	1.77	29	10	90	0.7	<2	5.72	<0.5	14	4	59	4.68
147683		9.76	0.073	0.3	1.29	16	<10	80	0.5	<2	5.83	<0.5	11	3	26	4.01
147684		9.76	0.037	0.4	1.44	23	10	80	0.8	<2	5.47	<0.5	12	4	33	4.76
147685		2.24	0.005	<0.2	0.05	<2	<10	70	<0.5	<2	>25.0	<0.5	<1	<1	2	0.08
147686		12.78	0.047	0.3	1.54	28	10	60	0.8	<2	0.06	<0.5	12	3	30	4.59
147687		4.02	0.030	0.2	1.15	22	10	180	1.3	<2	4.92	<0.5	9	1	105	3.52
147688		8.32	0.093	0.8	1.35	43	10	10	0.9	<2	6.94	<0.5	18	3	154	4.50
147689		<0.02	0.086	0.7	1.39	54	10	40	0.0	<2	6.21	<0.5	17	3	151	4.58
147690		9.70	0.033	0.5	1.65	16	10	70	0.8	<2	6.51	<0.5	11	3	95	4.15
147691		9.48	0.034	0.3	1.44	19	10	60	0.6	<2	5.64	<0.5	11	2	83	4.06
147692		9.56	0.042	0.4	1.54	21	10	80	0.9	<2	5.41	<0.5	9	3	104	4.73
147693		9.78	0.041	0.4	1.71	29	10	50	1.1	<2	5.34	<0.5	8	3	47	4.83
147694		9.62	0.361	0.5	1.55	22	20	50	1.0	<2	5.89	<0.5	10	3	65	5.10
147695		0.10	0.481	0.6	1.19	7120	50	20	<0.5	12	5.94	<0.5	168	11	80	3.56
147696		9.12	0.608	0.7	1.63	21	20	50	1.0	<2	5.83	<0.5	10	3	105	4.73
147697		9.10	1.615	0.5	1.58	13	20	50	0.8	<2	7.24	<0.5	26	1	82	4.60
147698		9.44	0.651	0.4	1.41	14	10	50	0.7	<2	6.29	<0.5	14	2	130	4.75
147699		10.74	0.370	0.3	1.62	15	20	50	0.9	<2	6.20	<0.5	9	2	140	4.73
147700		10.18	0.274	0.6	1.46	8	10	40	0.7	<2	6.32	<0.5	13	1	279	5.16
147701		8.62	0.081	<0.2	1.61	11	20	50	0.6	<2	5.72	<0.5	11	2	92	4.72
147702		6.46	0.055	0.3	1.65	23	10	60	1.2	<2	5.55	<0.5	12	2	127	4.70
147703		7.06	0.052	0.4	1.86	11	10	70	1.1	<2	5.69	<0.5	6	1	140	3.71
147704		2.36	<0.005	<0.2	0.08	8	<10	30	<0.5	<2	>25.0	<0.5	<1	1	4	0.09
147705		5.42	0.027	0.2	1.78	10	10	60	0.9	<2	4.94	<0.5	8	1	81	3.59
147706		8.66	0.239	0.4	1.47	25	10	50	0.9	<2	5.39	<0.5	16	3	154	4.80
147707		10.00	0.798	0.5	1.71	19	20	40	1.1	<2	5.71	<0.5	15	3	185	5.23
147708		<0.02	0.571	0.3	1.71	25	10	40	1.1	<2	5.77	<0.5	17	3	187	5.35
147709		8.64	0.444	0.2	1.36	9	<10	40	0.9	<2	5.87	<0.5	14	3	136	5.09
147710		8.82	0.474	0.5	1.11	13	20	40	0.5	<2	6.38	<0.5	14	2	145	4.41
147711		9.24	0.943	0.4	1.33	10	10	50	0.5	<2	5.49	<0.5	9	2	100	4.31
147712		8.84	0.372	<0.2	1.36	17	10	50	0.6	<2	7.24	<0.5	8	2	98	4.40
147713		9.04	0.321	0.4	1.33	12	10	50	0.9	<2	5.34	<0.5	15	2	178	4.55
147714		10.16	0.147	0.3	1.33	10	10	60	0.8	<2	5.33	<0.5	17	1	142	4.91
147715		0.12	0.015	9.9	0.35	8	<10	170	<0.5	2	0.78	<0.5	1	97	4210	0.86
147716		9.48	0.140	0.3	1.07	14	10	60	0.7	<2	4.98	<0.5	10	1	115	3.89
147717		9.20	0.116	0.3	1.08	19	20	50	0.9	<2	7.29	<0.5	9	2	125	4.30



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brookbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 3221 Fax: 604 984 3215 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074570

Sample Description	Method Analyte Units LOR	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	ME ICP41	
		Ca ppm 10	Hg ppm >	K % 0.01	Li ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Se ppm 1	Zn ppm 1
147678		<10	<1	0.18	10	0.09	252	179	0.03	4	330	17	0.43	18	1	258
147679		10	<1	1.38	10	1.48	2610	11	0.02	3	1800	8	3.49	5	12	3340
147680		10	<1	1.02	10	1.10	2090	2	0.02	3	1750	8	3.33	2	10	5310
147681		10	<1	1.12	10	1.27	1960	1	0.02	5	1890	9	2.12	<2	11	3340
147682		20	<1	1.30	10	1.37	2480	1	0.02	3	1740	6	2.70	3	12	3820
147683		10	<1	0.98	10	1.02	2050	<1	0.02	3	1690	6	1.88	<2	10	5410
147684		10	<1	1.13	10	1.11	2430	1	0.02	4	1740	12	2.38	<2	11	4700
147685		<10	<1	0.33	<10	2.11	65	<1	0.01	<1	80	<2	<0.01	<2	<1	5220
147686		10	<1	1.19	10	1.20	2750	7	<0.01	5	1890	24	2.38	<2	11	3900
147687		10	<1	0.82	20	0.75	1495	33	<0.01	2	1250	10	0.72	<2	6	1725
147688		10	1	0.87	10	0.76	2190	137	0.02	5	1550	10	3.98	5	9	3550
147689		10	2	0.86	10	0.80	3280	141	0.02	4	1590	14	4.02	2	9	3830
147690		10	1	1.20	10	1.08	2380	7	0.02	4	1590	12	1.70	<2	10	4530
147691		10	1	1.09	10	0.95	3180	23	0.02	3	1640	11	1.84	<2	10	5240
147692		10	1	1.22	10	1.10	2330	42	0.03	5	2140	21	2.11	<2	12	3850
147693		10	1	1.24	10	1.04	2560	2	0.03	6	2290	10	2.42	<2	12	4730
147694		10	<1	1.25	10	1.12	2980	3	0.03	6	2290	17	3.33	3	14	5520
147695		<10	1	0.04	10	0.24	659	12	0.08	33	1300	11	1.44	12	7	109
147696		10	1	1.27	10	1.11	2840	6	0.03	6	2070	16	2.95	<2	13	5460
147697		10	1	1.20	10	1.02	2630	6	0.03	5	1470	9	3.85	<2	11	7430
147698		10	1	1.04	10	0.92	2470	4	0.03	5	1600	14	4.12	<2	10	5340
147699		10	<1	1.29	10	1.05	2790	5	0.03	4	1760	11	3.82	<2	12	5480
147700		10	1	1.17	20	1.01	3030	1	0.03	7	2040	5	4.02	<2	13	4910
147701		10	1	0.99	20	0.88	2530	<1	0.03	5	1770	5	4.11	<2	12	4810
147702		10	1	1.11	10	0.93	2290	<1	0.03	4	1620	10	2.58	<2	11	2970
147703		10	<1	1.22	20	0.77	2690	1	0.03	2	1520	17	2.39	<2	6	2610
147704		<10	1	0.04	<10	2.14	69	<1	0.02	1	100	<2	<0.01	<2	<1	6130
147705		10	<1	1.06	20	0.74	2800	<1	0.03	4	1340	5	1.75	<2	5	2630
147706		<10	<1	1.01	10	0.99	3330	1	0.03	2	1780	7	2.20	4	7	2750
147707		10	1	1.26	20	1.03	3510	3	0.03	7	2250	10	3.73	<2	13	2880
147708		10	1	1.25	20	1.04	3490	5	0.03	7	2270	6	3.75	<2	13	2880
147709		10	<1	1.04	10	0.84	2950	3	0.03	7	2020	10	3.52	4	11	4610
147710		10	1	0.91	20	0.86	2740	5	0.02	6	1830	11	3.98	<2	10	3350
147711		<10	<1	0.84	10	0.72	2770	1	0.02	7	1660	6	3.09	2	10	2720
147712		10	1	0.86	10	0.94	3940	<1	0.02	4	1670	9	2.84	2	11	2670
147713		10	<1	1.02	10	0.92	3450	3	0.02	6	1920	10	3.12	<2	13	2820
147714		10	<1	0.92	10	0.79	3280	<1	0.03	4	1810	3	3.30	2	11	3020
147715		<10	<1	0.17	<10	0.08	232	746	0.03	4	310	10	0.11	17	<1	252
147716		10	1	0.87	10	0.86	2420	3	0.03	3	1120	18	2.06	2	7	2740
147717		10	1	1.38	10	1.13	3270	46	0.02	5	1840	18	3.10	2	9	3340



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brookspark Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0318 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074570

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		1)	1)	1)	1)	1)	1)
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	5	10	2
147678		0.01	<10	<10	6	<10	37
147679		0.08	<10	<10	240	<10	36
147680		0.07	<10	<10	207	<10	29
147681		0.08	<10	<10	227	<10	32
147682		0.08	<10	<10	239	<10	29
147683		0.07	<10	<10	200	<10	24
147684		0.08	<10	<10	220	10	24
147685		<0.01	<10	<10	5	<10	<2
147686		0.08	<10	<10	203	<10	25
147687		0.03	<10	<10	136	<10	40
147688		0.03	<10	<10	168	30	29
147689		0.03	<10	<10	167	30	26
147690		0.09	<10	<10	242	<10	25
147691		0.08	<10	<10	257	<10	30
147692		0.09	<10	<10	263	<10	20
147693		0.07	<10	<10	255	<10	29
147694		0.08	<10	<10	263	<10	23
147695		0.05	<10	<10	33	<10	80
147696		0.08	<10	<10	247	<10	27
147697		0.07	<10	<10	230	<10	26
147698		0.06	<10	<10	208	<10	23
147699		0.08	<10	<10	249	<10	28
147700		0.09	<10	<10	243	<10	24
147701		0.06	<10	<10	192	<10	14
147702		0.20	<10	<10	253	<10	31
147703		0.06	<10	<10	204	<10	18
147704		<0.01	<10	<10	7	<10	<2
147705		0.08	<10	<10	190	<10	18
147706		0.06	<10	<10	170	<10	29
147707		0.08	<10	<10	258	<10	26
147708		0.09	<10	<10	259	<10	23
147709		0.06	<10	<10	234	200	21
147710		0.03	<10	<10	161	<10	27
147711		0.04	<10	<10	202	10	26
147712		0.04	<10	<10	200	<10	24
147713		0.05	<10	<10	234	<10	29
147714		0.07	<10	<10	240	<10	24
147715		0.01	<10	<10	9	<10	32
147716		0.05	<10	<10	176	<10	28
147717		0.07	<10	<10	268	<10	46





# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074570

Sample Description	Method Analyte Units LOR	WEI12	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Reconl Wt kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Bi ppm	Be ppm	B ppm	Ca %	Co ppm	Co ppm	Cr ppm	Cr ppm	Cu ppm
		0.02	0.025	5.2	0.01	2	10	10	0.5	2	100	0.5	1	1	1	0.01
147718		8.78	0.073	0.4	1.23	13	10	50	0.7	<2	5.47	<0.5	8	2	87	3.95
147719		9.46	0.066	0.3	1.03	10	10	40	0.7	<2	5.00	<0.5	12	3	88	4.19
147720		9.90	0.078	0.5	0.96	14	10	40	0.7	<2	4.89	<0.5	13	4	106	3.97
147721		8.32	0.116	0.3	1.22	13	10	50	0.8	<2	5.82	<0.5	12	3	98	4.24
147722		7.30	0.112	0.4	1.11	18	10	40	0.7	<2	4.33	<0.5	18	4	121	4.67
147723		7.76	0.092	0.4	1.20	11	10	50	1.0	<2	6.31	<0.5	12	3	97	4.45
147724		2.29	<0.005	<0.2	0.04	9	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	?	0.07
147725		3.26	0.114	0.3	1.18	19	10	40	1.0	<2	5.51	<0.5	10	5	77	4.88
147726		9.18	0.205	0.1	1.46	17	10	50	0.8	<2	5.84	<0.5	14	3	108	4.74
147727		8.32	0.143	0.3	1.25	16	10	30	0.7	<2	4.77	<0.5	10	2	114	4.91
147728		<0.02	0.148	0.2	1.19	17	10	30	0.7	<2	4.83	<0.5	14	3	111	5.09
147729		9.08	0.416	0.3	1.31	12	10	100	0.8	<2	5.18	<0.5	8	2	73	3.45
147730		9.10	0.117	0.4	1.59	18	10	120	0.8	<2	4.64	<0.5	5	2	137	3.85
147731		1.94	0.097	0.8	1.42	16	10	20	0.6	3	2.54	<0.5	27	3	284	7.04
147732		9.58	0.063	0.2	1.09	7	10	140	1.3	<2	1.36	<0.5	7	6	55	2.79
147733		8.40	0.307	0.2	1.18	8	10	180	1.1	<2	2.29	<0.5	7	5	47	2.68
147734		10.35	1.795	0.6	1.13	13	10	240	1.3	<2	2.57	<0.5	8	5	40	2.60
147735		9.42	0.229	0.3	1.14	7	10	210	1.1	<2	2.38	<0.5	8	5	60	2.65
147736		9.10	0.471	0.5	1.10	1780	50	20	<0.5	17	8.11	<0.5	189	11	80	3.66
147737		9.22	0.122	0.2	2.47	17	10	120	2.1	<2	2.25	<0.5	6	6	51	2.72
147738		7.24	0.058	<0.2	1.53	6	10	180	1.1	<2	2.28	<0.5	7	6	42	2.83
147739		4.52	0.234	<0.2	1.75	10	10	120	1.5	<2	2.29	<0.5	7	6	71	2.79
147740		9.12	0.178	0.4	1.75	9	20	50	0.9	<2	3.92	<0.5	15	2	136	3.93
147741		7.98	0.076	0.7	1.30	27	10	40	0.9	<2	5.91	<0.5	19	4	222	5.50
147742		7.88	0.102	0.6	1.33	22	20	40	1.0	<2	3.89	<0.5	10	2	181	5.08
147743		2.62	<0.005	<0.2	0.06	3	<10	10	<0.5	<2	>25.0	<0.5	<1	?	?	0.08
147744		8.38	0.257	0.6	1.52	39	20	50	1.1	<2	6.28	<0.5	13	5	152	4.90
147745		8.18	0.091	<0.2	1.38	22	10	50	0.6	<2	7.34	<0.5	9	5	82	5.05
147746		4.82	0.043	0.4	1.46	28	10	70	1.0	?	6.06	<0.5	12	2	154	4.72
147747		8.66	0.045	0.3	1.02	12	10	50	0.9	<2	4.95	<0.5	12	5	70	3.98
147748		8.70	0.058	0.3	0.90	9	10	120	0.7	<2	4.70	<0.5	7	2	74	3.38
147749		<0.02	0.045	<0.2	0.81	4	10	100	0.6	<2	4.63	<0.5	7	2	71	3.34
147750		6.24	0.098	<0.2	0.80	8	10	60	0.6	<2	3.77	<0.5	10	1	110	3.51
148501		9.18	0.087	0.3	1.16	8	10	90	0.8	<2	4.43	<0.5	13	2	85	3.61
148502		8.56	0.187	0.6	0.92	9	10	50	0.7	<2	3.82	<0.5	10	2	66	3.82
148503		8.64	0.175	0.3	1.18	11	10	220	0.8	<2	4.72	<0.5	10	2	91	3.69
148504		10.72	0.191	0.3	1.38	14	10	130	0.9	<2	4.97	<0.5	5	2	61	4.07
148505		2.30	<0.005	<0.2	0.06	6	<10	10	<0.5	<2	>25.0	<0.5	<1	?	?	0.08



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brookbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0271 Fax: 604 954 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074570

Sample Description	Method Analyte Units LOR	ME-ICP41	VE-ICP41	VE-ICP41	ME-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	VE-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga ppm 10	Hg ppm 1	K % 0.01	Ca ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Se ppm 2	Si ppm 1	Sr ppm 1
147718		10	<1	1.04	10	0.81	2530	885	0.02	4	1130	26	3.40	2	7	3040
147719		10	1	0.92	10	0.57	1660	7	0.03	4	1260	8	4.16	<2	7	2500
147720		10	1	0.78	10	0.54	1925	9	0.02	3	1300	10	3.74	2	7	2760
147721		10	1	0.09	10	0.73	2410	4	0.03	6	1460	10	3.57	<2	8	2060
147722		10	1	0.88	10	0.60	1910	74	0.01	5	1550	14	4.28	<2	8	2740
147723		<10	1	0.90	10	0.82	2650	2	0.02	6	1780	3	2.86	3	8	1850
147724		<10	<1	0.01	<10	2.18	39	<1	0.01	<1	70	5	<0.01	<2	<1	5660
147725		10	1	0.89	10	0.81	2630	2	0.02	5	1720	136	3.12	3	9	1890
147726		10	1	1.05	10	1.00	3110	17	0.03	5	1540	34	3.00	2	8	1955
147727		10	<1	0.99	20	0.81	2360	14	0.02	6	1600	9	4.05	2	9	1825
147728		10	1	0.90	20	0.82	2400	14	0.02	5	1650	9	4.10	4	9	1875
147729		10	1	0.96	20	0.96	2730	5	0.03	3	1510	9	1.49	<2	7	2240
147730		10	1	1.15	30	0.89	2650	3	0.04	3	1540	31	1.37	2	8	2330
147731		10	1	0.95	10	0.95	1730	280	0.03	6	1710	68	0.25	<2	9	2340
147732		10	<1	0.88	10	0.67	396	3	0.09	4	850	25	0.14	<2	6	841
147733		<10	1	0.77	10	0.92	1075	3	0.09	4	860	15	0.14	3	6	691
147734		<10	1	0.78	10	0.52	1205	1	0.06	4	840	12	0.15	2	6	1150
147735		<10	<1	0.82	10	0.63	1260	1	0.06	5	830	11	0.17	<2	7	926
147736		<10	<1	0.04	10	0.21	562	13	0.08	34	1330	10	1.45	12	7	105
147737		10	<1	0.80	10	0.69	1170	2	0.26	3	820	13	0.09	<2	8	783
147738		10	1	0.85	10	0.72	939	1	0.11	3	870	15	0.07	<2	7	645
147739		10	1	0.93	10	0.64	1195	1	0.06	5	960	25	0.12	<2	7	741
147740		10	1	1.25	10	1.14	2520	25	0.03	3	1580	15	2.04	<2	8	1755
147741		10	1	1.02	20	1.30	3160	24	0.05	7	1920	14	1.05	4	10	2000
147742		10	1	1.02	20	0.92	2360	62	0.03	5	1440	8	3.72	<2	5	2640
147743		<10	1	0.01	<10	1.97	44	<1	0.02	<1	70	<2	<0.01	<1	<1	5780
147744		10	<1	1.10	10	0.87	2660	7	0.02	5	1630	12	3.14	<2	9	3430
147745		10	<1	0.75	10	0.91	2750	17	0.03	3	1730	4	2.08	<2	10	3130
147746		10	1	1.05	20	0.82	2640	5	0.02	8	1440	7	1.90	<2	8	2090
147747		10	<1	0.72	10	0.52	1720	<1	0.02	5	1020	7	2.22	2	7	2060
147748		<10	<1	0.71	10	0.54	1715	1	0.02	5	970	5	1.25	2	6	2160
147749		<10	1	0.65	10	0.52	1690	1	0.02	4	960	4	1.00	<2	5	2110
147750		<10	<1	0.64	20	0.62	1850	84	0.01	3	980	13	1.95	2	6	1080
148501		10	1	0.75	20	0.15	1730	7	0.02	5	1000	10	1.06	<2	5	1930
148502		10	<1	0.09	10	0.46	1625	18	0.02	7	1120	17	0.07	2	5	2620
148503		10	1	0.77	20	0.64	2060	1	0.03	4	1110	5	0.65	<2	5	2320
148504		10	<1	0.83	20	0.64	2150	<1	0.03	5	1000	6	0.87	<2	6	2760
148505		<10	1	0.01	<10	2.03	43	<1	0.01	<1	70	<2	0.09	<2	<1	5490



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

A S Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 16-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06074570

Sample Description	Method Analyte Units LOR	ME-ICP41	VE-ICP41	ME-ICP41	ME-ICP41	VE-ICP41	ME-ICP41
		Cr	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
147718		0.05	<10	<10	203	<10	34
147719		0.04	<10	<10	158	<10	25
147720		0.04	<10	<10	141	<10	24
147721		0.05	<10	<10	171	<10	23
147722		0.05	<10	<10	175	<10	27
147723		0.06	<10	<10	185	<10	31
147724		<0.01	<10	<10	3	<10	<2
147725		0.06	<10	<10	197	<10	34
147726		0.06	<10	<10	203	<10	31
147727		0.05	<10	<10	207	<10	32
147728		0.05	<10	<10	200	<10	31
147729		0.04	<10	<10	144	<10	32
147730		0.09	<10	<10	192	<10	35
147731		0.05	<10	<10	159	<10	44
147732		0.15	<10	<10	111	<10	61
147733		0.09	<10	<10	90	10	52
147734		0.10	<10	<10	123	<10	31
147735		0.08	<10	<10	99	<10	36
147736		0.05	<10	<10	33	<10	91
147737		0.17	<10	<10	121	<10	43
147738		0.13	<10	<10	113	<10	37
147739		0.14	<10	<10	121	<10	43
147740		0.07	<10	<10	181	<10	66
147741		0.05	<10	<10	136	<10	63
147742		0.06	<10	<10	206	10	45
147743		<0.01	<10	<10	4	<10	<2
147744		0.10	<10	<10	265	10	36
147745		0.08	<10	<10	215	<10	25
147746		0.11	<10	<10	298	<10	39
147747		0.06	<10	<10	166	<10	22
147748		0.04	10	<10	123	<10	22
147749		0.04	<10	<10	121	<10	22
147750		0.01	<10	<10	75	<10	37
148501		0.07	<10	<10	136	<10	21
148502		0.04	10	<10	112	<10	23
148503		0.11	<10	<10	163	<10	31
148504		0.15	<10	<10	191	<10	23
148505		0.01	<10	<10	3	<10	2



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brookshank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 1  
Finalized Date: 18-AUG-2006  
Account: SPEGOL

## CERTIFICATE VA06076463

Project: Galore Creek 1915-72040-50

P.O. No.:

This report is for 16 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 10-AUG-2006.

The following have access to data associated with this certificate:

JACK COTE  
SCOTT PETSSEL  
MELISSA ZACK

STUART MORRIS  
JOE PIEKENBROCK

JIM MUNTZERT  
DANETTE SCHWAB

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rod w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rod w/o Barcode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP AES	ICP-AES
AU-AA23	Au 30g FA-AA finish	AAS

To: SPECTRUMGOLD INC.  
ATTN: JOE PIEKENBROCK  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

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.

Signature: \_\_\_\_\_

Keith Rogers, Executive Manager, Vancouver Laboratory



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Hinksbank Avenue

North Vancouver, BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
 #2300 - 200 GRANVILLE STREET  
 VANCOUVER BC V6C 1S4

Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 18-AUG-2006  
 Account: SPEGOL

Project: Galore Creek 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06076463

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Reced Wt kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ce %	Co ppm	Cr ppm	Cu ppm	Fe %	
		0.02	0.005	0.2	0.01	2	10	0.5	2	0.01	0.5	1	1	1	0.01	
148586		10.52	0.408	0.4	0.48	98	10	20	0.5	<2	4.74	<0.5	11	2	175	4.40
148587		10.18	0.466	0.4	0.43	252	10	30	0.5	<2	5.87	<0.5	12	2	180	4.87
148588		9.80	0.458	0.6	0.53	92	10	40	0.7	<2	5.63	<0.5	13	1	180	4.57
148589		9.90	0.424	0.5	0.56	54	10	30	0.6	<2	5.51	<0.5	16	5	124	4.66
148590		10.20	1.060	1.0	0.52	69	10	30	0.5	<2	5.43	<0.5	13	1	126	4.45
148591		10.16	0.781	0.7	0.45	158	<10	40	<0.5	<2	5.82	<0.5	9	2	165	4.66
148592		<0.02	0.772	0.7	0.40	147	<10	40	<0.5	2	5.72	<0.5	10	2	144	4.44
148593		10.76	0.921	0.7	0.62	138	10	40	0.6	?	5.93	<0.5	13	2	182	4.72
148594		11.70	0.412	0.3	0.54	172	10	40	0.6	<2	5.91	<0.5	12	2	116	4.81
148595		5.00	0.345	0.3	1.42	50	10	160	1.4	<2	5.01	<0.5	15	3	109	4.91
148596		11.34	0.559	0.5	0.59	238	10	40	0.5	2	6.76	<0.5	17	2	139	4.73
148597		0.10	0.029	9.7	0.35	5	<10	170	<0.5	<2	0.82	<0.5	1	99	4360	0.87
148598		10.48	0.567	0.4	0.53	244	10	30	<0.5	2	4.15	<0.5	11	1	86	4.12
148599		10.62	0.771	1.3	0.54	273	10	30	0.5	?	5.16	<0.5	14	2	231	4.83
148600		6.42	0.393	0.5	0.67	215	10	40	0.6	<2	5.37	<0.5	11	1	122	4.38
148601		7.34	0.359	0.3	0.88	85	10	40	0.6	?	5.45	<0.5	18	1	136	4.88



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS (Canada) Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0213 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - B  
Total # Pages: 2 (A - C)  
Finalized Date: 18-AUG-2006  
Account: SPEGOL

Project: Galore Creek 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06076463

Sample Description	Method Analyte Units LOB	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ca ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	PL ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
148586		<10	1	0.41	30	0.84	3170	2	0.01	3	1210	9	4.40	3	6	895
148587		<10	<1	0.40	70	0.94	3710	1	0.01	2	1370	26	4.70	5	7	939
148588		<10	<1	0.48	70	0.96	3040	<1	0.01	4	1390	5	4.32	<2	7	2440
148589		<10	1	0.54	50	0.94	2850	<1	0.01	3	1360	10	4.65	6	6	2040
148590		<10	1	0.50	50	0.99	2840	4	0.01	2	1410	6	4.18	3	7	2530
148591		<10	1	0.46	70	0.94	2860	<1	0.01	4	1450	10	4.52	19	8	2620
148592		<10	<1	0.40	70	0.91	2890	<1	0.01	3	1410	10	4.26	13	7	2540
148593		10	<1	0.60	80	0.95	2900	1	0.01	4	1470	14	4.40	3	8	2760
148594		<10	1	0.50	50	1.13	3350	12	0.01	4	1570	9	4.40	6	8	2170
148595		10	<1	1.30	30	1.43	2860	7	0.01	4	2770	7	1.56	<2	14	1970
148596		<10	<1	0.53	30	0.93	2950	28	0.01	3	1520	18	4.73	<2	7	2570
148597		<10	<1	0.18	10	0.09	233	760	0.03	1	320	18	0.41	17	1	254
148598		<10	1	0.51	20	0.71	2100	7	0.02	1	1140	12	3.97	2	5	1890
148599		<10	<1	0.47	20	0.89	2530	81	0.01	3	1310	32	4.75	15	7	2240
148600		10	1	0.51	20	0.95	2460	4	0.01	2	1160	13	3.94	5	7	2550
148601		10	<1	0.84	20	0.94	2430	3	0.01	2	1550	8	5.04	3	8	2210



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - C  
Total # Pages: 2 (A - C)  
Finalized Date: 18-AUG-2006  
Account: SPEGOL

Project: Galore Creek 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06076463

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Si %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
148586		0.01	<10	<10	96	<10	25
148587		0.01	<10	<10	124	<10	41
148588		0.01	<10	<10	137	<10	23
148589		0.01	<10	<10	143	<10	23
148590		0.01	<10	<10	129	<10	23
148591		0.01	<10	<10	152	<10	28
148592		0.01	<10	<10	130	<10	25
148593		0.02	<10	<10	158	10	37
148594		0.01	<10	<10	135	<10	30
148595		0.19	<10	<10	236	<10	49
148596		0.02	<10	<10	138	<10	30
148597		0.01	<10	<10	8	<10	34
148598		0.01	<10	<10	109	<10	20
148599		0.02	<10	<10	128	<10	36
148600		0.02	<10	<10	117	<10	33
148601		0.04	<10	<10	175	<10	25



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2G1

Phone: 604 984 0221 Fax: 604 984 0216 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 1  
Finalized Date: 20-AUG-2006  
Account: SPEGOL

## CERTIFICATE VA06077085

Project: Galore 1915-72040-50

P.O. No.:

This report is for 80 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 8-AUG-2006.

The following have access to data associated with this certificate:

JACK COTE  
SCOTT PETSSEL  
MELISSA ZACK

STUART MORRIS  
JOE PIEKENBROCK

IMMUNIZERT  
DANETTE SCHWAB

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Red w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Red w/o BarCode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: SPECTRUMGOLD INC.  
ATTN: JOE PIEKENBROCK  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

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.

Signature: \_\_\_\_\_

Ken Rogers, Executive Manager Vancouver Laboratory





# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brookbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0216 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - A  
Total # Pages: 3 (A - C)  
Finalized Date: 20-AUG-2006  
Account: SPEGOL

Project Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06077085

Sample Description	Method Analyte Units LOR	WEI:21	AL AA23	ME-ICP41	VF-ICP41	MF-ICP41	ME-ICP41	VF-ICP41	ME-ICP41	VF-ICP41	ME-ICP41	VF-ICP41	ME-ICP41	VF-ICP41	ME-ICP41	VF-ICP41	ME-ICP41	VF-ICP41
		Recvd Wt kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Bj ppm	Cu %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %		
		0.02	0.005	<2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01		
148506		9.86	0.068	<0.2	0.89	12	10	70	0.6	<2	5.27	<0.5	6	3	364	3.47		
148507		10.60	0.103	<0.2	1.43	8	10	110	0.9	<2	6.00	<0.5	8	2	384	4.00		
148508		10.04	0.135	<0.2	1.08	16	10	80	0.7	<2	6.37	<0.5	14	3	106	3.57		
148509		<0.02	0.078	<0.2	1.07	18	10	70	0.7	<2	6.40	<0.5	14	3	113	3.53		
148510		9.50	0.064	<0.2	1.41	16	10	130	0.9	<2	7.05	<0.5	8	4	144	3.73		
148511		9.58	0.085	<0.2	1.37	14	10	120	1.0	<2	6.66	<0.5	10	2	177	3.60		
148512		10.08	0.024	<0.2	1.52	10	10	310	1.3	<2	6.07	<0.5	10	2	191	3.78		
148513		10.10	0.014	<0.2	1.21	12	10	120	1.2	<2	5.64	<0.5	6	3	163	3.64		
148514		8.14	0.120	<0.2	1.29	18	10	80	0.8	<2	5.63	<0.5	8	3	105	3.90		
148515		4.54	0.784	<0.2	0.95	50	10	140	0.9	<2	4.80	<0.5	9	2	131	3.73		
148516		8.14	0.012	<0.2	1.35	12	10	760	1.2	<2	4.15	<0.5	11	4	154	4.21		
148517		0.10	0.014	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS		
148518		3.36	0.034	<0.2	0.91	17	10	1540	0.7	<2	3.08	<0.5	9	1	158	2.46		
148519		0.06	0.059	<0.2	1.15	23	10	840	1.0	<2	5.05	<0.5	12	4	330	3.29		
148520		8.72	0.009	<0.2	1.11	11	10	1410	1.0	<2	5.14	<0.5	10	6	269	3.96		
148521		6.76	0.022	<0.2	1.30	12	10	1010	1.2	<2	6.07	<0.5	11	7	337	4.01		
148522		9.76	0.020	<0.2	1.00	6	10	330	1.1	<2	2.60	<0.5	4	2	73	2.13		
148523		1.64	<0.0015	0.9	0.04	4	<10	10	<0.5	<2	<25.0	<0.5	<1	1	2	0.04		
148524		7.14	0.022	<0.2	1.06	6	10	260	0.8	<2	2.57	0.1	6	4	59	2.43		
148525		9.90	0.018	<0.2	0.75	7	10	530	0.6	<2	2.90	<0.5	4	2	50	1.86		
148526		7.08	0.022	<0.2	0.90	14	10	780	0.8	<2	3.67	<0.5	8	2	103	2.93		
148527		5.10	0.029	<0.2	0.70	7	10	670	0.8	<2	2.06	<0.5	4	1	160	1.86		
148528		<0.02	0.035	<0.2	0.80	7	10	700	0.9	<2	2.17	<0.5	4	1	156	1.97		
148529		10.46	0.115	<0.2	0.88	25	<10	80	0.5	<2	5.05	<0.5	19	3	337	3.93		
148530		12.20	0.065	0.2	1.06	20	<10	90	0.9	<2	6.94	<0.5	13	5	1180	4.44		
148531		3.42	0.036	<0.2	0.81	16	10	60	0.7	<2	7.51	<0.5	18	2	112	4.07		
148532		7.04	0.056	<0.2	0.74	15	<10	60	0.5	<2	7.50	<0.5	17	2	180	3.65		
148533		0.10	0.013	9.0	0.37	12	<10	170	<0.5	<2	0.83	<0.5	1	101	4130	0.88		
148534		6.14	0.052	<0.2	0.68	18	<10	50	0.5	<2	7.01	<0.5	19	3	91	4.18		
148535		7.92	0.074	1.3	0.70	19	<10	70	0.7	<2	7.06	<0.5	13	2	1240	4.24		
148536		4.74	0.562	1.5	0.97	17	<10	930	1.1	<2	6.55	<0.5	10	3	1740	4.63		
148537		3.82	0.119	0.5	0.62	40	10	540	0.7	<2	5.28	<0.5	14	1	217	3.89		
148538		9.68	0.006	0.3	0.19	4	<10	130	<0.5	<2	0.60	<0.5	1	5	27	0.30		
148539		11.06	<0.005	0.4	0.20	2	<10	80	<0.5	<2	0.63	<0.5	<1	5	3	0.24		
148540		7.56	0.179	0.5	0.59	64	10	130	0.9	<2	4.51	<0.5	18	1	129	4.33		
148541		9.80	0.028	0.5	0.47	15	<10	390	0.6	<2	4.34	<0.5	14	1	144	3.86		
148542		10.20	0.095	<0.2	1.23	16	<10	350	0.8	<2	4.62	<0.5	14	3	70	4.33		
148543		10.34	0.010	<0.2	1.32	10	<10	140	0.7	<2	4.71	<0.5	16	4	115	4.19		
148544		10.04	0.017	<0.2	1.25	18	<10	130	0.9	<2	4.30	<0.5	11	4	81	4.06		
148545		6.18	0.072	<0.2	1.17	13	<10	180	0.8	<2	4.67	<0.5	15	2	94	4.11		

Comments: NSS is non sufficient sample



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

1111

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 20-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06077085

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
LOA		10	5	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
148506		<10	<1	0.70	10	0.66	1560	18	0.02	1	1350	7	2.45	2	5	2500
148507		10	<1	0.96	20	0.76	2060	18	0.04	3	1160	14	1.97	<2	6	2790
148508		10	<1	0.81	20	0.73	1920	13	0.03	1	1210	14	2.58	<2	5	2760
148509		<10	<1	0.82	20	0.71	1910	11	0.03	2	1200	15	2.55	3	5	2630
148510		10	<1	1.05	20	0.86	2350	4	0.03	2	1250	9	1.73	<2	6	3060
148511		10	<1	1.05	20	0.78	2160	3	0.03	3	1120	14	1.46	<2	5	2980
148512		10	<1	1.11	20	0.89	2000	1	0.03	2	1150	15	0.85	<2	6	2680
148513		10	<1	0.97	20	0.72	1650	4	0.02	3	1200	13	1.42	<2	5	3270
148514		10	<1	1.07	20	0.86	1790	4	0.03	1	1220	16	2.89	2	5	3020
148515		<10	<1	0.82	20	0.79	1610	1	0.02	3	1290	22	1.33	3	6	3070
148516		10	<1	1.25	20	1.11	1910	<1	0.03	5	1780	17	0.42	2	8	4030
148517		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
148518		<10	<1	0.80	20	0.62	1100	<1	0.02	1	1240	13	0.35	21	4	3150
148519		10	<1	1.09	20	1.09	1600	<1	0.03	1	1010	12	0.45	7	8	2810
148520		10	1	0.95	20	1.06	1700	<1	0.02	3	1360	7	0.23	<2	7	2790
148521		10	<1	1.10	30	1.03	1780	<1	0.03	4	1240	5	0.33	<2	8	3600
148522		10	<1	0.84	10	0.42	747	<1	0.03	<1	670	16	0.06	<2	3	980
148523		<10	<1	0.62	<10	1.74	23	<1	0.01	<1	50	<2	<0.01	<2	<1	5130
148524		10	<1	0.75	10	0.51	1010	<1	0.05	<1	860	84	0.10	7	4	1020
148525		<10	<1	0.60	10	0.33	686	<1	0.03	1	590	20	0.13	<2	3	1805
148526		<10	<1	0.76	10	0.51	1050	1	0.03	<1	850	14	0.55	<2	4	1945
148527		<10	<1	0.59	10	0.29	639	1	0.02	<1	560	11	0.22	<2	2	1585
148528		<10	<1	0.67	10	0.30	667	1	0.03	<1	590	13	0.22	2	2	1630
148529		10	1	0.87	10	0.87	1730	6	0.03	5	1510	27	2.11	<2	5	2450
148530		10	<1	0.94	20	1.14	1960	6	0.02	5	1900	56	2.38	6	9	2320
148531		<10	<1	0.56	20	0.83	1700	12	0.02	5	1480	16	1.48	<2	5	2180
148532		<10	<1	0.56	20	0.83	1730	32	0.02	3	1440	10	2.55	<2	6	2400
148533		<10	<1	0.19	<10	0.08	226	737	0.03	2	310	15	0.40	18	<1	253
148534		<10	<1	0.56	20	0.87	1760	2	0.02	5	1450	15	0.14	<2	3	2560
148535		<10	<1	0.56	30	1.04	1930	1	0.02	4	1760	12	2.28	5	6	2420
148536		<10	<1	0.79	40	1.41	2290	<1	0.03	5	2290	12	0.47	7	11	2640
148537		<10	<1	0.50	10	1.28	1800	10	0.02	2	1220	23	0.77	5	12	1790
148538		<10	<1	0.16	10	0.03	477	<1	0.04	<1	40	23	0.02	<2	1	109
148539		<10	<1	0.18	10	0.01	441	<1	0.04	<1	20	28	0.02	2	<1	44
148540		<10	<1	0.48	10	1.24	1690	4	0.01	2	1750	8	1.57	13	11	823
148541		<10	<1	0.41	10	1.25	973	4	0.02	<1	1650	6	0.84	7	10	692
148542		10	<1	0.45	10	1.54	1060	<1	0.03	1	1750	<2	0.76	7	10	1040
148543		<10	<1	0.41	10	1.53	1200	<1	0.05	4	1790	3	0.76	2	5	590
148544		10	<1	0.47	10	1.52	1160	<1	0.05	1	1820	2	0.80	4	10	511
148545		10	<1	0.37	10	1.35	1180	2	0.02	1	1600	14	1.41	2	9	773

Comments: NSS is non-sufficient sample



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

217 Brackbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 2 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 20-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06077085

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
148506		0.03	<10	<10	113	<10	33
148507		0.06	<10	<10	160	<10	37
148508		0.03	<10	<10	124	<10	28
148509		0.03	<10	<10	131	<10	29
148510		0.06	<10	<10	188	<10	31
148511		0.06	<10	<10	184	<10	27
148512		0.05	<10	<10	185	<10	29
148513		0.04	<10	<10	156	<10	24
148514		0.03	<10	<10	132	<10	28
148515		0.03	<10	<10	114	<10	35
148516		0.05	<10	<10	184	<10	36
148517		NSS	NSS	NSS	NSS	NSS	NSS
148518		0.02	<10	<10	87	<10	32
148519		0.04	<10	<10	145	<10	33
148520		0.05	<10	<10	179	<10	31
148521		0.05	<10	<10	184	<10	33
148522		0.03	<10	<10	75	<10	43
148523		<0.01	<10	<10	-	<10	<2
148524		0.05	<10	<10	85	<10	75
148525		0.01	<10	<10	55	<10	38
148526		0.02	<10	<10	78	<10	28
148527		0.01	<10	<10	58	<10	19
148528		0.01	<10	<10	63	<10	20
148529		0.03	<10	<10	133	<10	41
148530		0.04	<10	<10	191	<10	64
148531		0.01	<10	<10	116	<10	32
148532		0.01	<10	<10	109	<10	35
148533		0.01	<10	<10	8	<10	34
148534		0.01	<10	<10	119	<10	36
148535		0.02	<10	<10	153	<10	60
148536		0.06	<10	<10	312	10	67
148537		0.01	<10	<10	56	<10	60
148538		<0.01	<10	10	-1	<10	6
148539		<0.01	<10	10	-	<10	7
148540		0.01	<10	<10	61	<10	65
148541		0.01	<10	<10	68	<10	55
148542		0.04	<10	<10	114	<10	72
148543		0.03	<10	<10	110	<10	77
148544		0.10	<10	<10	118	<10	66
148545		0.11	<10	<10	120	<10	52

Comments: NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0216 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06077085

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	VE-ICP41	ME-CP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recon Wt kg	Au ppm	Ag ppm	A %	As ppm	B ppm	Ba ppm	Bi ppm	Br ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
148546		6.62	0.064	<0.2	1.62	15	<10	200	0.7	<2	4.20	<0.5	10	3	79	4.59
148547		0.10	1.625	0.5	1.08	2310	20	20	<0.5	23	5.38	<0.5	68	22	119	2.99
148548		10.00	0.038	<0.2	0.65	50	<10	80	0.6	<2	6.18	<0.5	6	2	167	3.73
148549		10.70	0.063	<0.2	0.63	56	10	50	0.6	<2	5.41	<0.5	8	2	233	3.37
148550		10.42	0.062	<0.2	0.60	62	10	50	0.6	<2	5.64	<0.5	11	3	164	3.59
148551		6.10	0.054	<0.2	0.48	44	<10	40	0.5	<2	5.53	<0.5	12	1	187	3.97
148552		7.18	0.051	<0.2	0.65	52	10	40	0.6	<2	4.80	<0.5	11	2	181	3.82
148553		9.62	0.096	<0.2	0.89	43	10	50	0.8	<2	5.27	<0.5	11	3	178	4.12
148554		1.42	<0.005	0.7	0.03	3	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.04
148555		10.04	0.087	<0.2	0.84	36	10	50	0.7	<2	5.95	<0.5	14	3	200	4.58
148556		10.46	0.070	<0.2	1.06	32	10	60	0.9	<2	4.61	<0.5	10	4	300	4.11
148557		<0.02	0.079	<0.2	1.32	32	10	60	0.8	<2	4.75	<0.5	19	3	311	4.15
148558		7.34	0.055	<0.2	1.09	49	<10	40	0.8	<2	5.19	<0.5	22	4	239	5.24
148559		4.64	0.167	<0.2	1.17	49	10	90	1.0	<2	7.21	<0.5	18	2	410	5.39
148560		4.60	0.066	<0.2	0.74	49	10	50	0.8	<2	7.39	<0.5	11	2	112	4.55
148561		6.96	0.102	<0.2	0.65	58	10	50	0.7	<2	5.03	<0.5	8	1	105	3.37
148562		11.12	0.116	<0.2	0.79	51	10	40	0.7	<2	7.05	<0.5	10	2	104	4.82
148563		10.98	0.114	<0.2	0.95	41	10	40	0.7	<2	5.87	<0.5	13	1	177	4.27
148564		9.00	0.097	<0.2	0.08	54	<10	50	0.5	<2	5.82	<0.5	11	2	153	4.83
148565		<0.02	0.104	<0.2	0.73	57	<10	40	0.5	<2	6.10	<0.5	11	2	174	5.03
148566		6.64	0.206	<0.2	0.79	60	10	50	0.7	<2	4.40	<0.5	11	2	419	5.49
148567		11.36	0.090	<0.2	0.76	30	20	50	0.6	<2	4.70	<0.5	17	2	191	4.02
148568		10.14	0.111	<0.2	0.03	37	20	40	0.5	<2	5.32	<0.5	10	2	152	3.99
148569		9.98	0.166	<0.2	0.46	61	20	40	<0.5	<2	5.00	<0.5	17	1	108	3.89
148570		0.10	0.473	0.3	1.03	8500	50	20	<0.5	16	5.56	<0.5	151	10	75	3.44
148571		10.26	0.273	<0.2	0.60	94	20	30	0.6	<2	5.43	<0.5	13	3	190	4.59
148572		10.36	0.307	0.2	0.89	75	30	40	0.7	<2	6.17	<0.5	18	1	227	5.01
148573		10.04	0.441	2.4	0.46	112	10	30	<0.5	<2	4.20	<0.5	12	2	315	4.16
148574		10.56	0.178	<0.2	0.52	61	10	30	0.6	<2	4.33	<0.5	11	1	178	4.43
148575		10.24	0.154	0.2	0.76	87	10	40	0.8	<2	5.58	<0.5	16	2	221	4.90
148576		2.50	<0.005	1.2	0.03	7	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.04
148577		8.06	0.202	0.2	0.54	62	10	30	0.6	<2	4.16	<0.5	9	2	233	4.60
148578		11.78	0.312	0.3	0.57	112	<10	30	0.7	<2	5.62	<0.5	18	1	205	4.30
148579		10.18	0.290	<0.2	0.70	100	10	40	0.8	<2	5.56	<0.5	13	2	167	4.83
148580		10.22	0.225	<0.2	0.67	109	10	40	0.8	<2	6.38	<0.5	13	2	155	4.59
148581		10.50	0.207	<0.2	0.59	80	10	50	0.5	2	5.94	<0.5	16	3	136	4.53
148582		10.26	0.241	<0.2	0.63	98	10	40	0.7	<2	6.45	<0.5	13	2	136	4.96
148583		10.62	0.201	0.3	0.55	77	10	40	0.7	<2	5.74	<0.5	14	2	108	4.66
148584		1.92	0.007	1.0	0.06	4	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.08
148585		9.64	0.426	0.7	0.53	77	10	40	0.7	<2	5.22	<0.5	15	2	132	4.55

Comments: NSS is non-sufficient sample



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brookbank Avenue  
North Vancouver, BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0216 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - B  
Total # Pages: 3 (A - C)  
Finalized Date: 20-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06077085

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ca	Hu	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	
148546		10	<1	0.49	10	1.50	1260	1	0.03	3	1700	5	0.85	2	11	647
148547		<10	<1	0.04	10	0.27	716	8	0.07	26	1060	10	0.63	6	2	97
148548		<10	<1	0.66	20	0.53	1650	4	0.03	<1	1160	5	2.06	2	5	1510
148549		<10	<1	0.51	20	0.50	1500	<1	0.02	7	1230	7	2.97	<2	4	1900
148550		<10	<1	0.49	20	0.50	1800	1	0.02	1	1240	6	3.97	2	4	1730
148551		<10	<1	0.38	20	0.55	1760	2	0.02	2	1190	1*	4.10	3	4	1635
148552		<10	<1	0.53	20	0.56	1680	1	0.02	2	1230	9	3.86	5	4	2000
148553		10	<1	0.73	20	0.93	2410	<1	0.02	4	1630	4	3.62	2	7	2140
148554		<10	<1	0.07	<10	1.84	28	<1	0.02	<1	50	<2	<0.01	<2	<1	5620
148555		10	<1	0.69	30	0.92	2360	1	0.02	3	1500	4	4.42	3	7	1855
148556		10	<1	0.87	10	1.12	2160	1	0.02	4	1610	5	3.26	7	7	1975
148557		10	<1	0.82	10	1.14	2210	<1	0.02	2	1660	5	3.23	12	7	1935
148558		10	<1	0.99	10	1.08	2350	2	0.02	4	1860	7	4.56	2	9	1725
148559		10	<1	1.02	20	1.01	2510	1	0.03	2	1640	5	4.23	2	8	1715
148560		<10	<1	0.59	20	0.81	2320	<1	0.05	3	1410	6	4.79	2	6	2200
148561		<10	<1	0.51	10	0.46	1630	<1	0.02	<1	1090	6	3.55	<2	4	2680
148562		<10	<1	0.60	20	0.73	2500	<1	0.03	5	2120	5	4.86	<2	10	1665
148563		<10	<1	0.73	20	0.63	2260	2	0.02	2	1780	6	4.37	<2	8	1605
148564		10	<1	0.58	20	0.80	2400	<1	0.02	2	1830	5	4.91	<2	8	1835
148565		<10	<1	0.61	20	0.88	2570	<1	0.02	2	1900	6	5.14	<2	8	1840
148566		10	<1	0.68	20	1.01	2360	113	0.01	4	1650	9	4.97	2	7	1340
148567		<10	<1	0.64	20	0.59	1650	10	0.02	7	1690	6	4.25	3	3	1860
148568		<10	<1	0.52	30	0.57	1890	6	0.02	2	1160	5	4.25	<2	4	2500
148569		<10	<1	0.42	20	0.70	2690	10	0.01	<1	1260	5	4.41	2	4	1835
148570		<10	<1	0.05	10	0.23	519	11	0.07	27	1250	9	1.27	11	1	98
148571		<10	<1	0.56	20	0.90	3020	6	0.01	3	1540	4	4.45	4	6	1685
148572		<10	<1	0.59	20	0.98	3450	11	0.01	3	1570	7	5.02	2	6	1855
148573		<10	<1	0.45	10	0.92	4420	1	0.01	3	1390	15	4.25	2	5	1250
148574		<10	<1	0.45	20	0.69	2690	1	0.01	<1	1030	13	4.34	2	4	1370
148575		<10	<1	0.62	20	0.76	2640	6	0.01	2	1370	10	4.79	<2	5	1095
148576		<10	<1	0.01	<10	2.02	42	<1	0.02	<1	60	2	<0.01	<2	<1	6070
148577		<10	<1	0.49	10	0.63	2170	6	0.01	7	940	15	5.03	2	4	1410
148578		<10	<1	0.54	10	0.55	2400	3	0.01	<1	890	13	4.64	<2	1	1915
148579		<10	<1	0.66	20	0.80	2660	3	0.01	2	1120	26	5.23	<2	5	2160
148580		<10	<1	0.59	30	0.86	3020	7	0.01	7	1390	6	4.54	<2	6	1920
148581		<10	<1	0.52	30	0.83	3090	5	0.01	<1	1420	7	4.65	<2	6	1895
148582		<10	<1	0.61	30	0.87	3170	4	0.01	7	1470	4	4.96	<2	7	2140
148583		<10	<1	0.50	20	0.81	3090	8	0.01	3	1420	10	4.54	<2	6	1900
148584		<10	<1	0.01	<10	2.11	56	<1	0.02	<1	90	<2	<0.01	<2	<1	5790
148585		<10	<1	0.47	30	0.86	3310	9	0.01	2	1340	7	4.74	5	6	814

Comments: NSS is non-sufficient sample.



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: SPECTRUMGOLD INC.  
#2300 - 200 GRANVILLE STREET  
VANCOUVER BC V6C 1S4

Page: 3 - C  
Total # Pages: 3 (A - C)  
Finalized Date: 20-AUG-2006  
Account: SPEGOL

Project: Galore 1915-72040-50

## CERTIFICATE OF ANALYSIS VA06077085

Sample Description	Method Analyte Units LOR	MC-ICP41	VE-ICP41	MC-ICP41	VE-ICP41	ME-ICP41	VE-ICP41
		Ti %	Si ppm	S ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
148546		0.14	<10	<10	160	<10	81
148547		0.04	<10	<10	23	10	57
148548		0.07	<10	<10	248	40	31
148549		0.02	<10	<10	100	<10	23
148550		0.01	<10	<10	115	<10	22
148551		0.01	<10	<10	76	<10	24
148552		0.01	<10	<10	112	<10	22
148553		0.01	<10	<10	188	<10	33
148554		<0.01	<10	<10	1	<10	42
148555		0.02	<10	<10	174	<10	30
148556		0.02	<10	<10	159	<10	31
148557		0.02	<10	<10	150	<10	33
148558		0.03	<10	<10	104	<10	33
148559		0.04	<10	<10	260	<10	32
148560		0.01	<10	<10	101	<10	18
148561		0.01	<10	<10	81	<10	15
148562		0.01	<10	<10	150	<10	21
148563		0.02	<10	<10	139	<10	23
148564		0.02	<10	<10	162	<10	26
148565		0.02	<10	<10	189	<10	27
148566		0.01	<10	<10	179	<10	38
148567		0.01	<10	<10	87	<10	36
148568		0.01	<10	<10	63	<10	17
148569		0.01	<10	<10	72	<10	21
148570		0.04	<10	<10	31	<10	85
148571		0.01	<10	<10	112	<10	27
148572		0.01	<10	<10	127	<10	36
148573		0.01	<10	<10	87	<10	86
148574		0.01	<10	<10	86	<10	24
148575		0.01	<10	<10	106	<10	35
148576		<0.01	<10	<10	1	<10	42
148577		0.01	<10	<10	99	<10	24
148578		0.01	<10	<10	117	<10	16
148579		0.01	<10	<10	138	<10	26
148580		0.01	<10	<10	149	<10	27
148581		0.01	<10	<10	126	<10	24
148582		0.01	<10	<10	147	<10	26
148583		0.01	<10	<10	131	<10	23
148584		0.01	<10	<10	3	<10	42
148585		0.01	<10	<10	116	<10	36

Comments: NSS is non-sufficient sample

**APPENDIX VIII**

**ANALYTICAL PROCEDURES**

### ALS Chemex Analytical Procedures

The procedures listed on the CC06-0032 assay certificates in Appendix VIII are:

SAMPLE PREPARATION	
<u>ALS Code</u>	<u>Description</u>
WEI-21	Received Sample Weight
LOG-22	Sample login – Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing – 70% < 2 mm
SPL-21	Split sample – riffle splitter
PUL31	Pulverize split to 85% < 7 µm
LOG-24	Pulp login – Rcd w/o BarCode
SPL-21d	Split sample – duplicate
PUL-31d	Pulverize sample – duplicate

ANALYTICAL PROCEDURES		
<u>ALS Code</u>	<u>Description</u>	<u>Instrument</u>
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA Finish	AAS

More detailed descriptions of the procedures are provided in the following pages.



**Sample Preparation Package – PREP-31****Standard Sample Preparation: Dry, Crush, Split and Pulverize**

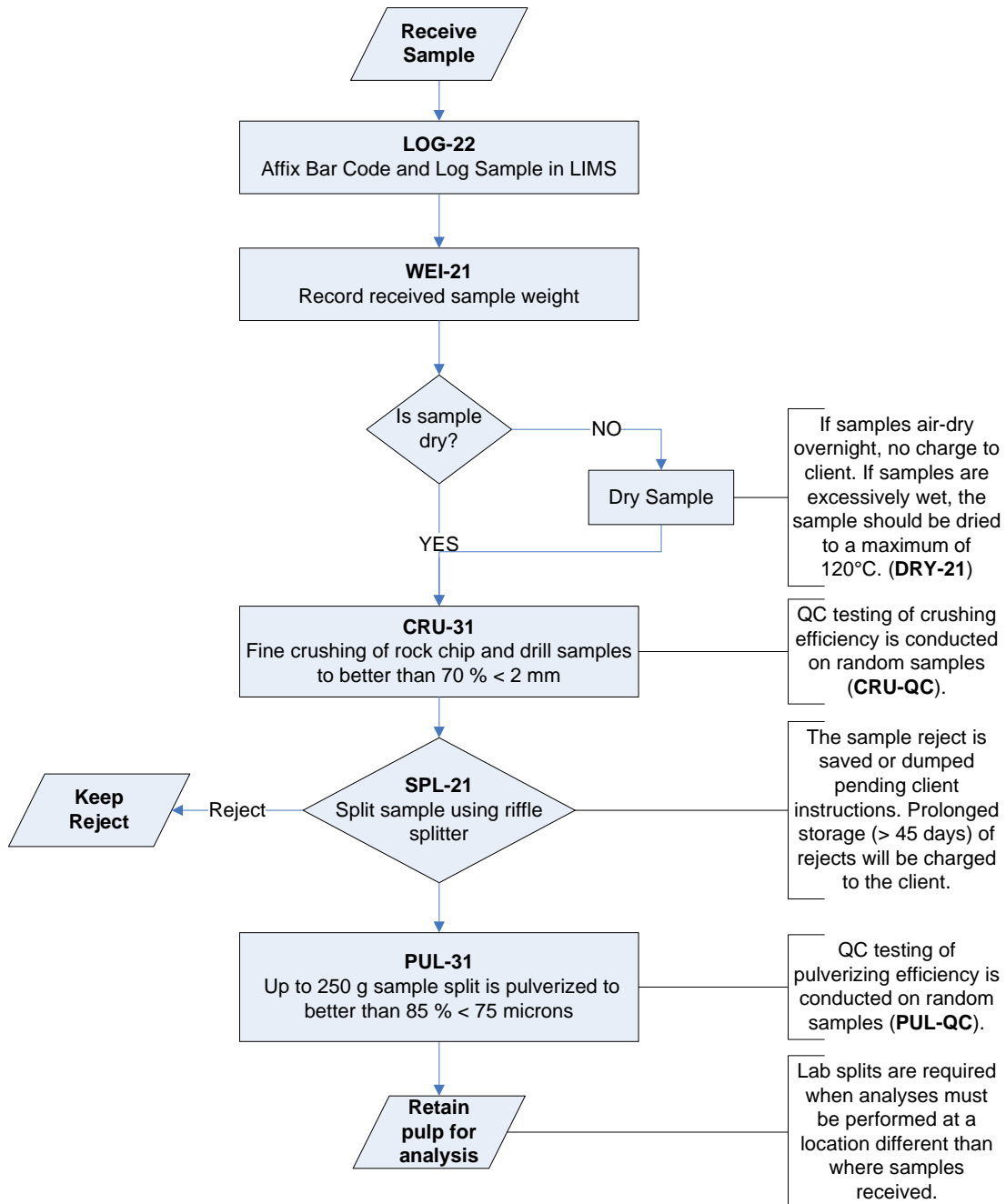
Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 10 mesh) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh) screen. This method is appropriate for rock chip or drill samples.

<b>Method Code</b>	<b>Description</b>
LOG-22	Sample is logged in tracking system and a bar code label is attached.
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**





**Sample Preparation – Miscellaneous Crushing Procedures**

The entire sample is passed through a primary crusher to yield a crushed product which passes the screen specifications of the designated crushing procedure. A split, (split size is determined by the final preparation method and analysis requested), is then taken.

<b>Method Code</b>	<b>Specifications</b>	<b>Description</b>
CRU-21a	80 % < 6 mm	Coarse crushing of rock chip and drill samples to better than 80 % of the sample passing 3.4 mm. Used when the entire sample will be pulverized but the material is too coarse for introduction into the pulverizing mill.
CRU-35	80 % < 2 mm	Fine crushing of rock chip and drill sample to better than 80% -2mm.
CRU-36	85 % < 2 mm	Fine crushing of rock chip and drill sample to better than 85% -2mm.
CRU-QC	See method Specifications	Crushing QC Test
CRU-QC2mm	See Method Specifications	Crushing QC test to determine % of sample passing a 2 mm screen



## Sample Preparation - Splitting Procedures

Some large samples require division of one or more size fraction into representative splits.

The entire sample is transferred to a tray and then repeatedly passed through a splitter until the required split size has been obtained. Sample reject is returned to its original package or, if necessary, to a more suitable container.

<b>Method Code</b>	<b>Description</b>
SPL-21	Split sample using riffle splitter. Standard splitting procedure.
SPL-21d	Duplicate split sample using riffle splitter. Standard splitting procedure.
SPL-22	Split sample using a rotary splitter. Premium splitting procedure.



**Sample Preparation – Pulverizing Procedures**  
**PUL-31(a/b/c/d/s)**  
**Pulverize split**

**Analytical Method:** 'Flying Disk' or 'Ring and Puck' style grinding Mill (LM2 – Carbon Steel)

A crushed sample split, (the split size being determined by the pulverizing method chosen), is ground using a ring mill pulverizer using a carbon steel (Chrome free) ring set. Grinding with chrome steel may impart trace amounts of iron and chromium into the sample.

<b>Method Code</b>	<b>Mass</b>	<b>Specifications (µm)</b>	<b>Description</b>
PUL-31	≤ 250 g	85 % < 75 µm	A sample split is pulverized. Default procedure for samples that are finely crushed and split prior to pulverization.
PUL-31d	≤ 250 g	85 % < 75 µm	Duplicate - A sample split is pulverized
PUL-31a	≤ 250 g	95 % < 75 µm	A sample split is pulverized.
PUL-44	≤ 250 g	85 % < 75 µm	Pulverise entire sample in chrome free bowl.
PUL-31b	≤ 500 g	80 % < 75 µm	A large sample split is pulverized.
PUL-31c	≤ 500 g	85 % < 75 µm	A large sample split is pulverized.
PUL-31s	≤ 200	85 % < 75 µm	Pulverize excess plus fraction and screen.
PUL-QC	25 g	See Method Specification	Testing procedure for ring pulverized material.



**Sample Preparation - Logging Samples Received as Pulps**

All pulp samples received at ALS Chemex are furnished with a bar code label attached to the original sample bag. The system will also accept client supplied bar coded labels that are attached to sampling bags in the field. The label is scanned and the weight of the sample is recorded together with additional information such as date, time, equipment used and operator name. The scanning procedure is used for each subsequent activity involving the sample from preparation to analysis, through to storage or disposal of the pulp.

At least one out of every 50 samples is selected at random for routine pulp QC tests (LOG-QC). For routine pulps, the specification is 85 % passing a 75 micron screen. Other specifications may be checked as per client requirements.

<b>Method Code</b>	<b>Specifications</b>	<b>Description</b>
LOG-23	85 % < 75 μm	Log received sample pulp in tracking system (Sample pulps received with bar code labels attached).
LOG-24	85 % < 75 μm	Log received sample pulp in tracking system (Sample pulps received without bar code labels attached).
LOG-25	95 % < 106 μm	Log received sample pulp in tracking system (Sample pulps received with bar code labels attached).
LOG-26	95 % < 106 μm	Log received sample pulp in tracking system (Sample pulps received without bar code labels attached).
LOG-QC	See method specifications	Testing Procedure for samples received as pulp.



**Geochemical Procedure - ME-ICP41  
Trace Level Methods Using Conventional ICP-AES Analysis**

**Sample Decomposition:** Nitric Aqua Regia Digestion (GEO-AR01)  
**Analytical Method:** Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample is digested with aqua regia for in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 mL with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

**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.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.2	100	Ag-AA46
Aluminum	Al	%	0.01	25	
Arsenic	As	ppm	2	10000	
Boron	B	ppm	10	10000	
Barium	Ba	ppm	10	10000	
Beryllium	Be	ppm	0.5	1000	
Bismuth	Bi	ppm	2	10000	
Calcium	Ca	%	0.01	25	
Cadmium	Cd	ppm	0.5	1000	
Cobalt	Co	ppm	1	10000	
Chromium	Cr	ppm	1	10000	
Copper	Cu	ppm	1	10000	Cu-AA46
Iron	Fe	%	0.01	50	



Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Gallium	Ga	ppm	10	10000	
Mercury	Hg	ppm	1	10000	
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10000	
Magnesium	Mg	%	0.01	25	
Manganese	Mn	ppm	5	50000	
Molybdenum	Mo	ppm	1	10000	Mo-AA46
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10000	
Phosphorus	P	ppm	10	10000	
Lead	Pb	ppm	2	10000	Pb-AA46
Sulfur	S	%	0.01	10	
Antimony	Sb	ppm	2	10000	
Scandium	Sc	ppm	1	10000	
Strontium	Sr	ppm	1	10000	
Thorium	Th	ppm	20	10000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10000	
Uranium	U	ppm	10	10000	
Vanadium	V	ppm	1	10000	
Tungsten	W	ppm	10	10000	
Zinc	Zn	ppm	2	10000	Zn-AA46





Elements listed below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Cerium	Ce	ppm	10	10000	
Hafnium	Hf	ppm	10	10000	
Indium	In	ppm	10	10000	
Lithium	Li	ppm	10	10000	
Niobium	Nb	ppm	10	10000	
Rubidium	Rb	ppm	10	10000	
Selenium	Se	ppm	10	10000	
Silicon	Si	ppm	10	10000	
Tin	Sn	ppm	10	10000	
Tantalum	Ta	ppm	10	10000	
Tellurium	Te	ppm	10	10000	
Yttrium	Y	ppm	10	10000	
Zirconium	Zr	ppm	5	10000	



**Fire Assay Procedure – Au-AA23 & Au-AA24  
Fire Assay Fusion, AAS Finish**

**Sample Decomposition:** Fire Assay Fusion (FA-FUS01 & FA-FUS02)

**Analytical Method:** Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by atomic absorption spectroscopy against matrix-matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au- GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au- GRA22