

**2005 DIAMOND DRILLING ASSESSMENT REPORT  
ON THE COPPER CANYON PROPERTY**

Liard Mining Division  
British Columbia, Canada

NTS 104G/3 and 104G/4  
57° 07' North Latitude  
131° 21' West Longitude

Owned by  
Eagle Plains Resources Ltd.  
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Operated by  
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## 1.0 INTRODUCTION

This report summarizes conclusions from a small diamond drilling program completed during 2005 on the Copper Canyon property, an alkaline porphyry-style copper-gold-silver occurrence located approximately 6 kilometers 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. This year's drilling program was designed to test a coincident magnetic and chargeability anomaly on the south side of the East Fork of Galore Creek and to test for extensions of known mineralization in the footwall of the Doghouse Fault and Copper Creek areas.

Drilling completed during 2005 consisted of 3 holes totaling 924 metres. It commenced on September 12<sup>th</sup> and finished on September 29<sup>th</sup>, 2005. Work proposed for 2006 will include additional drilling and surface mapping in order to provide closer spaced subsurface data within the area of the known Cu-Au-Ag resource and to explore the exterior limits of mineralization.

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.

In August 2003, SpectrumGold Inc. (now NovaGold Canada Inc.) entered into an option agreement to acquire an 80% interest in the Copper Canyon Project from Eagle Plains Resources Ltd. Under the terms of the agreement, NovaGold must spend \$3million and issue 400,000 shares of NovaGold Resources Inc. by October 1, 2013 to earn a 60% interest. To earn an additional 20%, NovaGold must make a further payment of \$1million and complete a feasibility study within eight years of earning the 60% interest. NovaGold also assumes the commitments of the underlying agreement with Bernard Kreft, which include payments totalling \$250,000 and a 2% net smelter return held by Kreft.

Copper Canyon, an alkaline porphyry-style copper-gold-silver deposit, has a combined indicated and inferred resource of 384.7 million tonnes containing 5.2 million ounces of gold and 5.8 billion pounds of copper (LaCroix, 2004).

## 2.0 LOCATION, ACCESS & PHYSIOGRAPHY

The Galore Creek property (Figure 1) is located within the historic Stikine Gold Belt of northwestern British Columbia, approximately 75 kilometres northwest of Barrick Gold's Eskay Creek mine. The 11,344 hectare (28,020 acre) property lies 70 kilometres west of the Bob Quinn airstrip, 150 kilometres northwest of the tidewater port of Stewart, British Columbia, and 90 kilometres northeast of Wrangell, Alaska. The property is situated at the headwaters of Galore Creek, a tributary of the Scud River, which in turn flows into the Stikine River. 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 2005 program most personnel, supplies and equipment were staged from the Bob Quinn airstrip and transported via helicopter to the Galore Creek camp. A 500-meter gravel airstrip at Galore Creek was cleared of brush this year but 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 meters above sea level, active alpine glaciation and deep U-shaped valleys. Relief on the property varies from moderate to extreme. The tree line, located at an elevation of 1100 meters, divides the forests of balsam fir, Sitka spruce, alder, willow, devils club and cedar from the sparse grasses and brush above.

## 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.

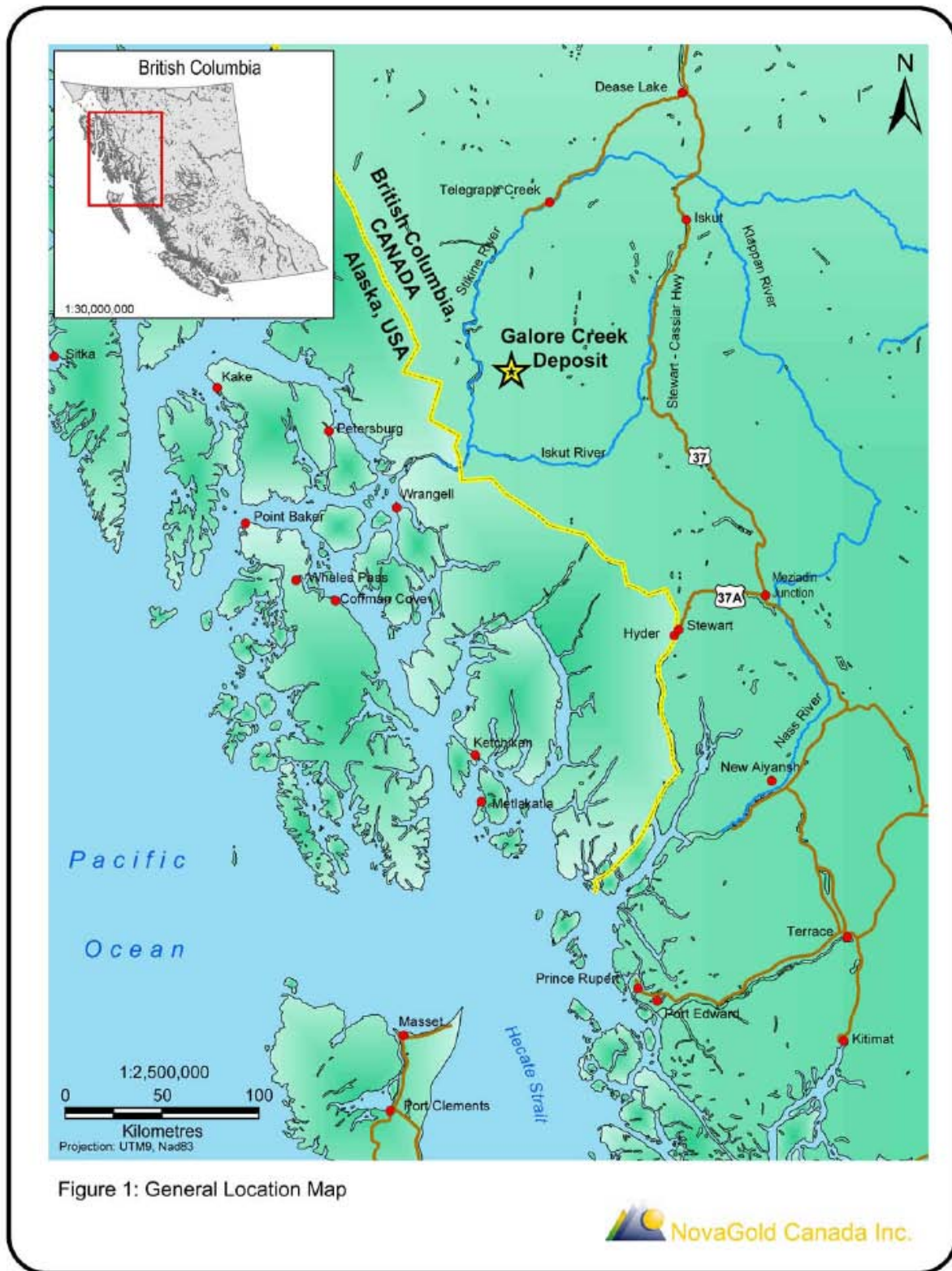


Figure 1: General Location Map



#### 4.0 LAND TENURE AND CLAIM STATUS

The Copper Canyon property originally consisted of 4 four-post claims comprising 71 units. In 2004, SpectrumGold Inc. (now NovaGold Canada, Inc.) entered into an option agreement to earn up to 80% interest in these claims from Eagle Plains Resources Ltd. NovaGold must make payments to the owners of 400,000 shares, and expenditures of \$3.0 million to earn 60% interest. To earn another 20%, NovaGold must make another payment of \$1.0 million and complete a feasibility study. NovaGold also assumed the commitments of the underlying agreement with Bernard Kreft.

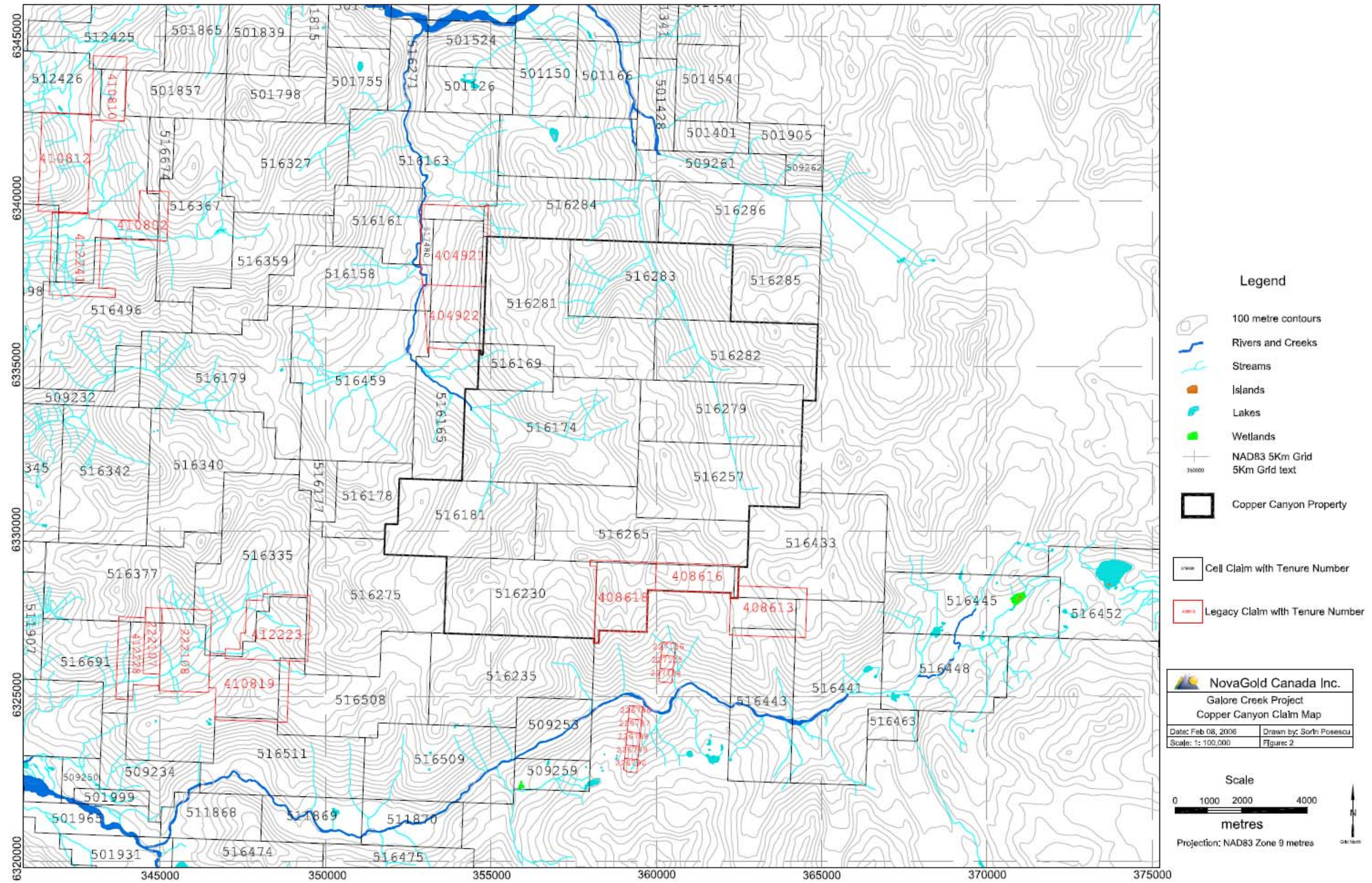
In July 2005, NovaGold converted the mineral claims subject to the Copper Canyon option agreement into 10 cell claims with two claims remaining as legacy claims to hold an area of 11,344 hectares. Two claims are held by Eagle Plains Resources Ltd. And 10 claims are held by NovaGold Canada Inc. See Table 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 Cell Claim Tenure number 516174.

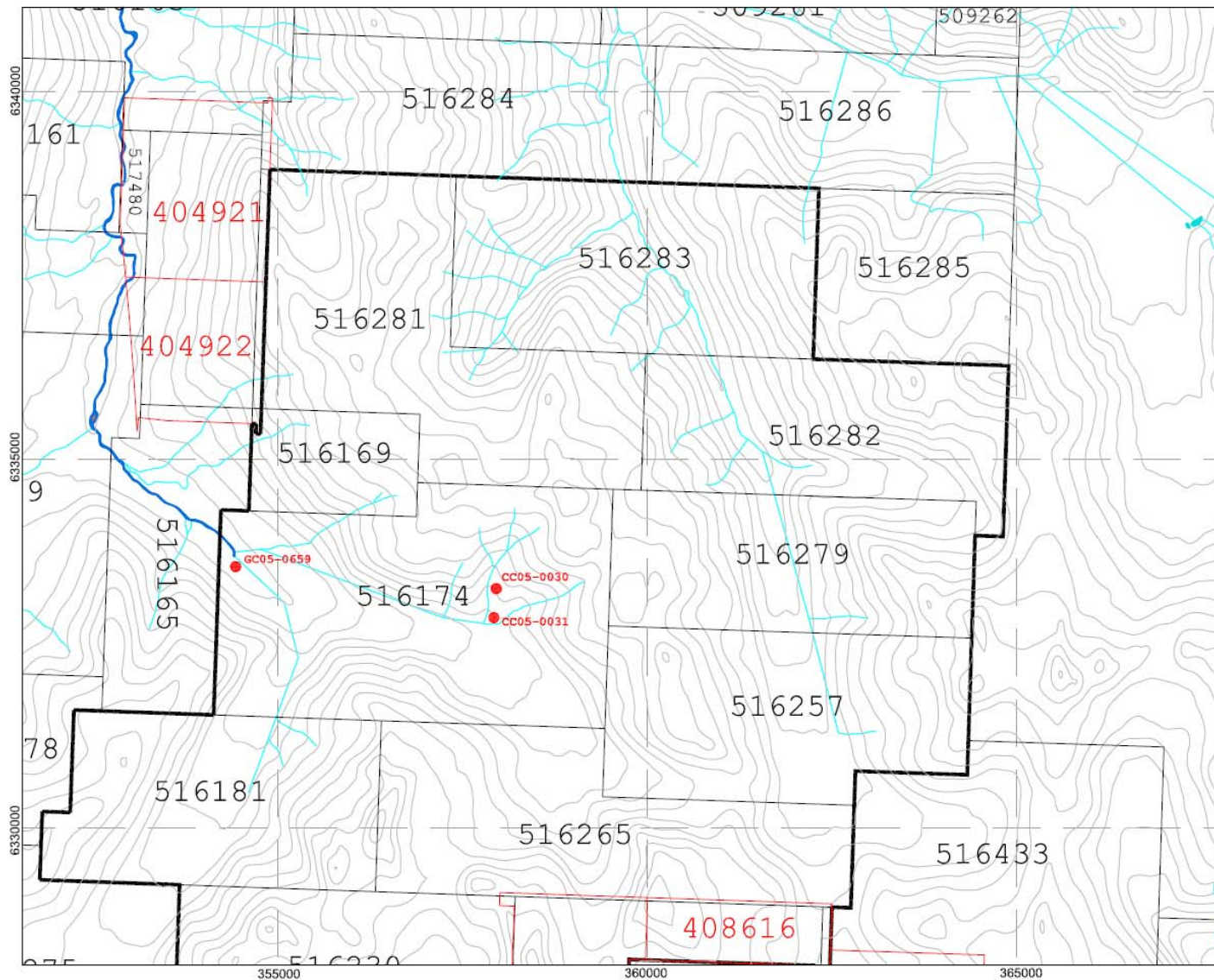
**Table 1 - Copper Canyon Property Claim Status**

<b>Tenure No.</b>	<b>Name</b>	<b>Owner</b>	<b>Area (ha.)</b>	<b>Expiry Date*</b>
516169	Cell Claim	Eagle Plains Resources Ltd.	316.102	2015/DEC/01
516174	Cell Claim	Eagle Plains Resources Ltd.	1,598.830	2015/DEC/01
516181	Cell Claim	NovaGold Canada Inc.	1,002.122	2015/DEC/01
516230	Cell Claim	NovaGold Canada Inc.	1,055.420	2015/DEC/01
516257	Cell Claim	NovaGold Canada Inc.	1,072.055	2015/DEC/01
516265	Cell Claim	NovaGold Canada Inc.	1,177.971	2015/DEC/01
516279	Cell Claim	NovaGold Canada Inc.	913.438	2015/DEC/01
516281	Cell Claim	NovaGold Canada Inc.	1,386.770	2015/DEC/01
516282	Cell Claim	NovaGold Canada Inc.	930.595	2015/DEC/01
516283	Cell Claim	NovaGold Canada Inc.	1,140.709	2015/DEC/01
408616	VIA 35	NovaGold Canada Inc.	250.000	2015/DEC/01
408618	VIA 37	NovaGold Canada Inc.	500.000	2015/DEC/01
<b>Totals:</b>	12 claims		<b>11,344.012</b>	

Note: \* Date indicated is subject to government approval of the 2005 assessment report.







**Legend**

- 100 metre contours
- Rivers and Creeks
- Streams
- Islands
- Lakes
- Welllands
- NAD83 5Km Grid  
5Km Grid text
- Diamond Drill Hole Location
- Copper Canyon Property
- Cell Claim with Tenure Number
- Legacy Claim with Tenure Number

**NovaGold Canada Inc.**  
**Galore Creek Project**  
 Copper Canyon Diamond Drill Hole Collar Location  
 Date: Feb 08, 2008      Drawn by: Sofie Passoco  
 Scale: 1:80,000      Figure: 2

**Scale**  
 0 500 1000 2000  
 metres  
 Projected: NAD83 Zone 9 metres

## 5.0 2005 SUMMARY OF WORK

The diamond drilling program was conducted between September 12, 2005 and September 29, 2005 at a cost of \$237,035.08. Details of the costs can be found in Appendix II. The program consisted of three diamond drill holes totalling 924 metres. Two holes were drilled to test the limit of known mineralization associated with the Doghouse Fault and in the main deposit in the Copper Creek area and the third hole tested a coincident magnetic/chargeability anomaly near the western property boundary on the south shore of East Fork Creek. This report discusses the work completed during this period.

The anniversary date of the claims on which assessment work was filed is December 1st, and all costs through to October 31<sup>st</sup>, 2005 were included in the 2005 assessment work filing. On November 29, 2005, under Event Number 4056640 assessment work totalling \$198,172.74 was applied to the claims listed in Table 1. The claim expiry dates were advanced to the year 2015 and are subject to government approval of this assessment report. The remaining portion of assessment work was credited to NovaGold portable assessment credit account.

Hy-Tech Drilling Ltd. of Smithers, BC provided two S-15 Custom Built fly rigs designed to drill HQ and NQ core. Drilling was conducted between September 12, 2005 and September 29, 2005.

The core recovered from each drill hole was flown to 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 per 20 core samples. A total of 514 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 two companies: Quantum Helicopters Ltd, of Terrace, B.C., provided the following helicopters under charter arrangements or sublease: Two Bell 206B Jet Rangers; Three Bell 206LR Long Rangers; One Bell 205. Vancouver Island Helicopter Logging, of North Saanich, B.C. provided a Sikorsky S-61 for drill moves, crew changes and mobilizing equipment. These helicopters flew a total of 52.8 hours during the field season for the Copper Canyon Project. The total helicopter cost for this applied to assessment work is \$119,163.17.

## **6.0 REGIONAL GEOLOGY**

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.

### **6.1 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 (1977), 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.

### **6.2 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

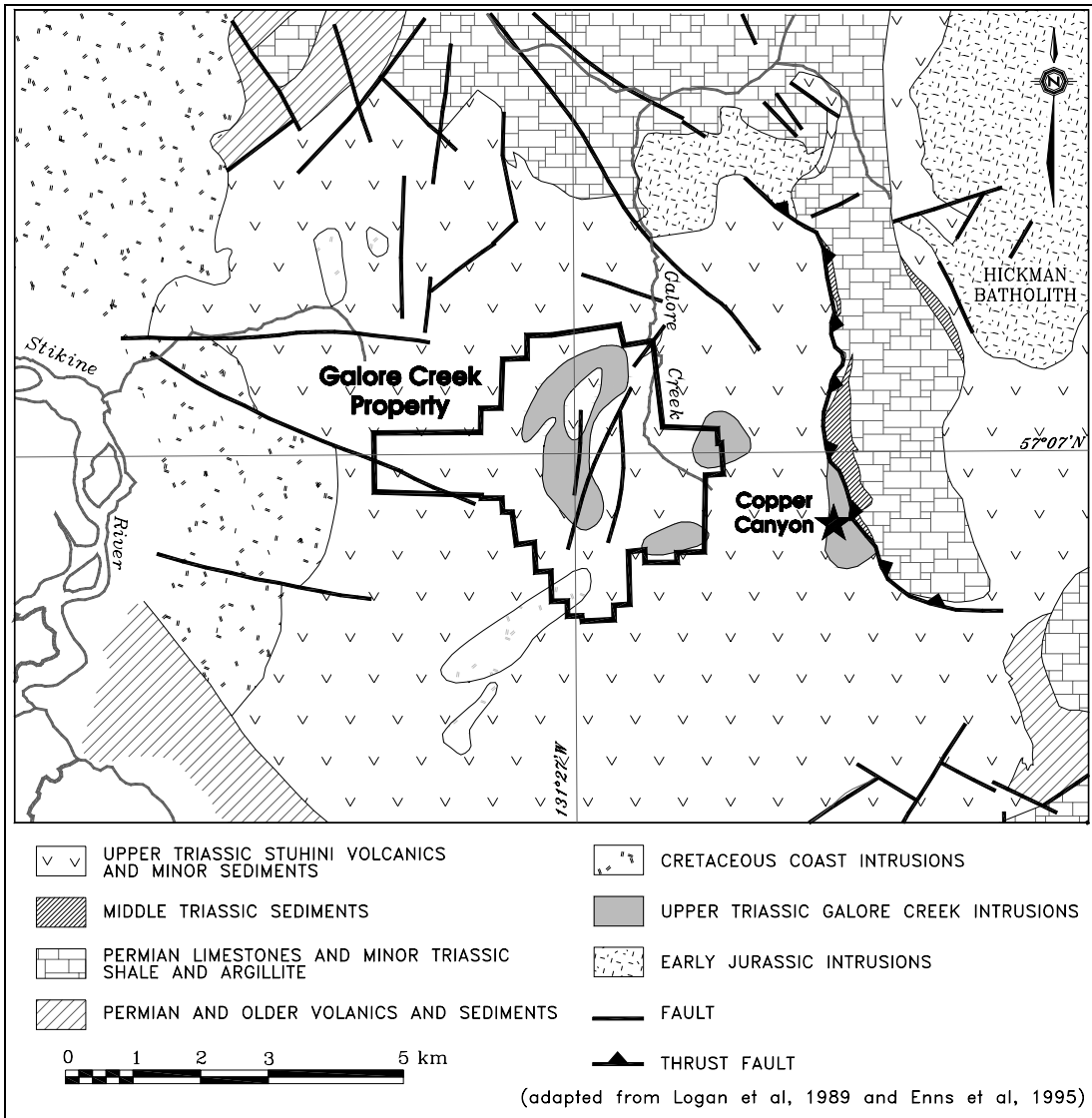
with the Hickman stock, and is located 39 km northeast of Galore Creek. This stock is crudely zoned with a pyroxene diorite core and biotite granodiorite margins. Alkali syenites of the Galore complex like those found at the nearby Copper Canyon deposit and the pyroxene diorite bodies of the zoned Hickman 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.

### **6.3 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.



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

## 7.0 DIAMOND DRILLING

### 7.1 Introduction

Diamond drilling at Copper Canyon was carried out in September, 2005, the main focus of which was to extend the presence of high-grade copper and gold mineralization within the Copper Canyon deposit as well as identify the cause of a local magnetic high and chargeability anomaly located in the East Fork Galore Creek valley within the Copper Canyon claims. Hole CC05-030 tested the northward continuity of strong mineralization encountered in holes CC04-023 and 025. It also explored the effects of the Doghouse Fault which cuts mineralization in this area. Hole CC05-031 tested for mineralization continuity at depth in the area near CC90-004. Previous drilling shows mineralization dipping moderately to the northeast.

Additional work was also completed within the claim group and included exploring near surface mineralization and alteration trends within the East Fork of Galore Creek valley, and graduate research on the zoning and fluid chemistry within the Copper Canyon deposit.

Drilling results from within the Copper Canyon deposit were added to the construction of the MineSight® 3-D wire frame model in order to further its geologic and mineralogic understanding.

Core drilled in 2005 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 and densities. 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, control samples were inserted into the shipments at the approximate rate of one standard, one blank and one duplicate per 20 core samples.

Collar coordinates of the 2005 drill holes were initially located using hand-held GPS units. Upon completion, the holes were surveyed by differential GPS using an Ashtech ProMark II receiver. Downhole surveys were conducted using an Icefield M13 Autoshot Digital borehole tool.

Diamond drilling at Copper Canyon, summarized in Table 2 below, consisted of 3 holes totalling 924 metres.

Hole ID	UTM East	UTM North	Elevation	Azimuth	Dip	Actual depth
GC05-0659	354426.32	6333549.54	684.29	360	-90	194.77
CC05-0030	357953.99	6333251.01	1308.70	260	-65	441.66
CC05-0031	357922.02	6332857.42	1215.01	135	-65	287.80

**Table 2 – 2005 Copper Canyon – Diamond Drill Hole Summary**

## 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 IV.

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 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) ORTOCLASE-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 phyrlic 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 to 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 of the drill holes from the 2005 drilling program. Cross sections of each drill hole are plotted on Plates 1-3 in Appendix V. Copies of drill logs can be found in Appendix VI. These are accompanied by the analytical protocols and ALS Chemex assay certificates found in Appendices VII and VIII respectively. A map of the drill collar locations can be found in Figure 3 on page 6 of this report.

The cross sections show the lithology, gold values greater than 0.1 g/t Au, and copper values greater than 0.1%. 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 10m intervals of individual assay results over a 0.35% copper equivalent cut-off. Provision was made to allow for 2 consecutive sample intervals below the cut-off value within any given composite.

Individual assay composites for Copper Canyon are summarized in Table 3 below. Brief drill hole summaries for the 2005 Copper Canyon drill holes follow.

Hole ID	From	To	Assayed Length	CuEq %	Cu %	Au ppm	Ag ppm
GC05-0659	0	195	194	0	0	0	0
CC05-0030	238	254.5	16.5	0.33	0.182	0.166	5.352
CC05-0030	276	288.5	12.5	0.822	0.493	0.344	13.536
CC05-0030	294.9	308.5	13.6	0.586	0.36	0.232	9.516
CC05-0031	0	287.8	266.7	0	0	0	0

**Table 3 – 2005 Copper Canyon – Individual Assay Composites**

#### **DDH CC05-0030** (plate 1)

DDH CC05-0030 was designed to test the continuity of good mineralization drilled last year in CC04-0023 and CC04-0025. This hole was collared (Table 2) approximately 140 meters northeast of the above mentioned holes and was angled towards our current model of the Doghouse Fault, which is of unknown importance to the deposit. The upper portion of the hole (to 182m) was dominated by unmineralized, moderately potassic altered pseudoleucite bearing volcanics (V2) and orthoclase bearing crystal lapilli tuffs (V3) both cut by orthoclase bearing Intrusions (i5). The lower portion contained a diatreme breccia (B1) above brecciated volcanics (V4) with late orthoclase and pseudoleucite bearing Intrusives (I5 & I5p) cutting both units. Low levels of disseminated chalcopyrite mineralization were observed within the i5p and local zones of the B1 unit. The Doghouse fault was intersected from 395m to 405m with preliminary findings suggesting an unknown amount of strike slip displacement.

Results in drill core from this hole confirmed that mineralization within the Copper Canyon Deposit continues to the north. Weaker mineralization may be a result of the higher elevation that this hole passed through the section relative to prior holes.

### **DDH CC05-0031** (plate 2)

DDH CC05-0031 was designed to test an area on the southeast margin of the Cu-Au mineralization that was open on strike, as well as test a 1960's IP anomaly in this area. The hole was dominated by strong potassically altered and brecciated pseudoleucite bearing Copper Canyon Porphyry (CCPp) with small intervals of Equigranular Copper Canyon Porphyry (CCPe) and late Orthoclase Syenite Megaporphyry (I9). Mineralization was observed mainly within the CCPp and brecciated zones and consisted of euhedral and very finely disseminated pyrite averaging approximately 4% throughout with local trace amounts of chalcopyrite. The abundance of pyrite appears to be the cause of the 1960's IP anomaly. The drill hole was terminated early due to stuck rods within a possible fault.

This hole collared near CC90-6 and was drilled southeast into untested terrain beneath Copper Creek. Additionally the hole was designed to test continuity of shallow mineralization encountered in nearby holes. It failed at both goals and no further drilling is planned for this area at this time.

### **DDH GC05-0659** (plate 3)

This hole was drilled vertically over a magnetic high at 354420E, 6333550N in order to test an Induced Polarization chargeability anomaly at 150m depth. The hole drilled through a moderate propylitically altered, bedded epiclastic volcanic sequence (S6). The upper section of the hole (to 137m) contained trace amounts of disseminated pyrite that grade into 1% disseminated pyrite within the anomalous zone. Moderate magnetic susceptibility values were recorded throughout the hole and correlates to the disseminated magnetite as well as the magnetic high recorded by the 2004 airborne magnetic survey. Trace amounts of specularite were also disseminated throughout the hole.

A second objective was to intersect the stratigraphic section near the contact of the augite bearing volcanics (V1) and pseudoleucite bearing volcanics (V2). This part of the section hosts much of the mineralization within the nearby Galore Creek deposit.

No significant copper mineralization and or potassic alteration similar to that at Galore Creek and main Copper Canyon deposit was observed within drill core. Instead, pyrite mineralization associated with the propylitic halo of a porphyry deposit was identified. The stratigraphic V1/V2 section was also not present; it is apparent that the location of the drill hole lies distal to the volcanic units. Due to lack of favourable mineralization and alteration assemblages observed at surface as well as in drill core, no future drilling is planned for this area at this time.

## **8.0 DISCUSSION & RECOMMENDATIONS**

Drilling during the 2005 season 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. Drill hole CC05-0030 appears to close mineralization off to the east, though this interpretation is preliminary.

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

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**APPENDIX II**

**STATEMENT OF EXPENDITURES**

## APPENDIX II

### STATEMENT OF EXPENDITURES

#### Copper Canyon Drilling Program

Period: September 12, 2005 to October 31, 2005

Direct Drilling Expenditures (924 metres) Hy-Tech Drilling Ltd.	\$119,772.40
Indirect Drilling Expenditures (drill moves, drilling muds, core boxes, supplies)	\$9,392.40
Helicopter Costs (drill mobilization, support, demobilization))	\$119,163.17
Project Support (accommodation, drill fuel)	\$15,081.70
Assays (514 samples)	\$14,273.78
Personnel & report preparation	<u>\$9,351.63</u>
	<b>\$287,035.08</b>
<u>TOTAL WORK AVAILABLE FOR ASSESSMENT CREDIT:</u>	<u>\$ 287,035.08</u>
<u>TOTAL WORK FILED FOR ASSESSMENT CREDIT:</u>	<u>\$198,172.74</u>


**APPENDIX III**


**STATEMENTS OF QUALIFICATION**

I, Donald Franz Penner, of 6785 Brewer Road, Vernon, B.C., V1B 3H2, DO HERBEY 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 1976 graduate of the University of British Columbia with a Bachelors of Science in Geological Sciences.
- 3) I have practiced my profession with various mining companies nationally and internationally since graduation.
- 4) I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
- 5) This report is based on Copper Canyon Property work that I participated in and partially supervised from Sept 12 to Sept 29, 2005.
- 6) I have no interest in the property herein.

DATED at Vernon, B.C., this 31st day of January 2005.

  
Donald Franz Penner



The seal is a circular emblem with a double border. The outer border contains the text 'PROFESSIONAL' at the top, 'BRITISH COLUMBIA' at the bottom, and 'GEOLOGIST' on the left and right sides. The inner border contains the text 'PROFESSIONAL' at the top, 'BRITISH COLUMBIA' at the bottom, and 'GEOLOGIST' on the left and right sides. In the center of the seal, the name 'D. F. PENNER' is printed.

### CERTIFICATE

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

- 1) THAT I am a geologist in the minerals exploration industry employed by Novagold Resources Inc., 2300-200 Granville Street, Vancouver, B.C. V6C 1S4.
- 2) THAT I am a graduate of Fort Lewis College, Durango Colorado, USA(1987) and hold a Bachelors of Arts in Geology.
- 3) THAT I have practiced my profession with various mining companies in Colorado, Arizona, Alaska, Nevada in the United States, internationally in the Philippines, Mexico, Russia and in Canada (Ontario and British Columbia) for 16 years.
- 4) THAT I am a Certified professional geologist (CPG 10071), as certified by the American Institute of Professional Geologists (AIPG).
- 5) THAT this report is based on the Copper Canyon Property work that I participated in and supervised from May 15, 2005 to Present, 2006.
- 6) THAT I have no interest in the property herein.

DATED at Juneau, Alaska, USA this 31st day of January, 2006.



Scott Alan Petsel



**APPENDIX IV**

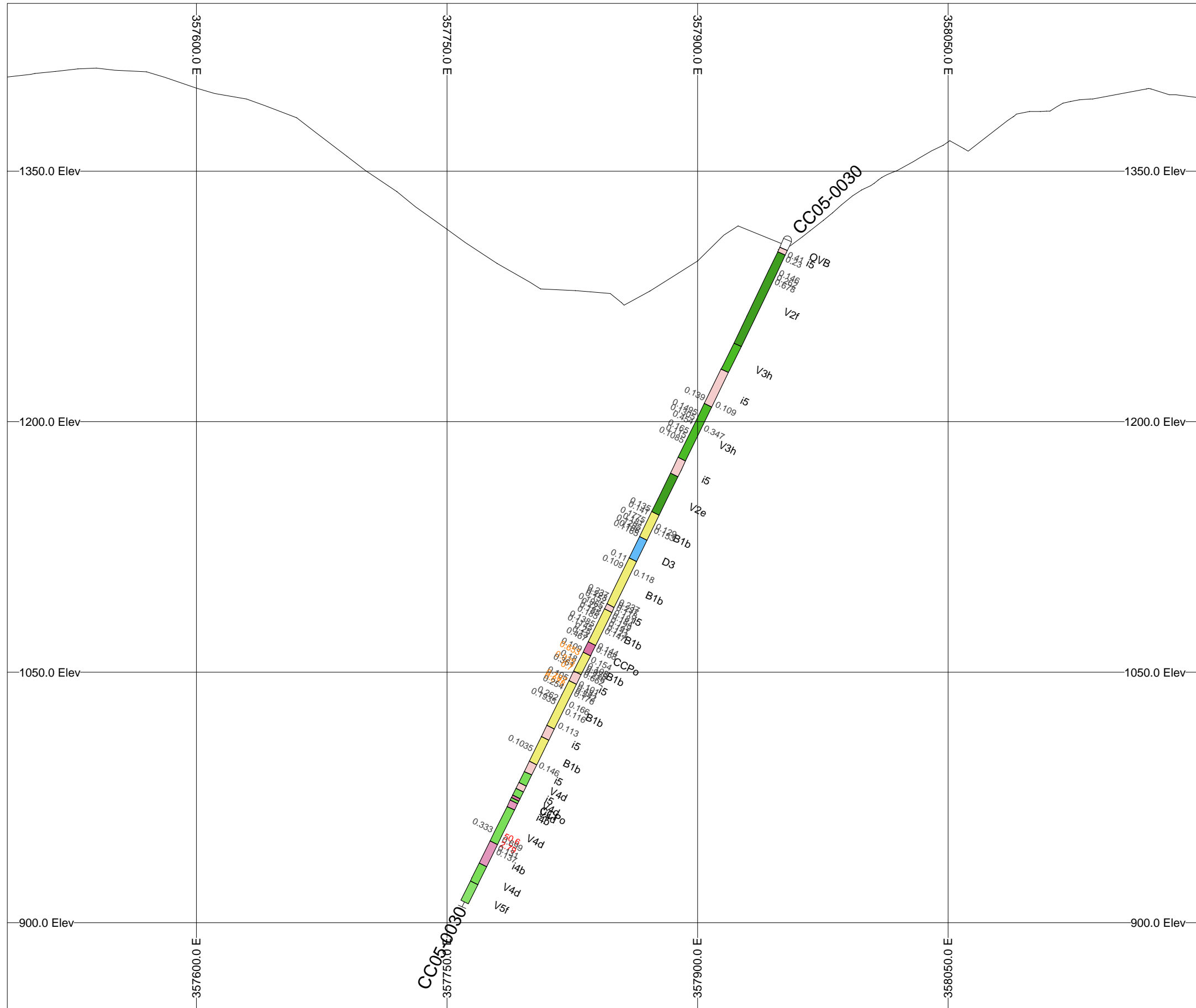
**LITHOLOGIC CLASSIFICATION**

**GALORE CREEK AND COPPER CANYON PROJECT ROCK CODES**

Numeric	Alpha	Description	Numeric	Alpha	Description
100	<b>S</b>	<b>Sedimentary Rocks</b>	300	<b>I</b>	<b>Intrusive Rocks</b>
110	S1	Conglomerate	310	I1	Pseudoleucite Porphyry
120	S2	Greywacke	320	I2	Pseudoleucite Mega-Porphyry
130	S3	Siltstone	330	I3	Grey Syenite Porphyry
140	S4	Argillite	331	CCPo	Copper Canyon Porphyry - Orthoclase
150	S5	Limestone	332	CCPp	Copper Canyon Porphyry - Pseudoleucite
160	S6	Epiclastic	340	I4	Dark Orthoclase Syenite
170	S7	Diamictite	343	I4a	Early Phase
			344	I4ab	Early/Late
			345	I4b	Late Phase
200	<b>V</b>	<b>Volcanic Rocks</b>	350	I5/I9	Orthoclase Syenite Mega-Porphyry
210	V1	Augite Bearing	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	I6/I8	Syenite
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	V2	Pseudoleucite Bearing	365	I8b	Early /Late
221	V2a	Flow	367	VJP	Junction Porphyry
222	V2b	Porphyritic	368	WFP	West Fork Porphyry
223	V2a/b	Porphyritic Flow	370	I7/I11	Syenite Porphyry
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	I10	Plagioclase Syenite Porphyry
229	V2e/h	Mixed/Undiff	383	I10a	Early Phase
230	V3	Orthoclase Bearing	385	I10b	Late Phase
231	V3a	Flow	390	I12	Lavender Syenite Porphyry
232	V3b	Porphyritic			
233	V3a/b	Porphyritic Flow Flow/Fine Lapilli Tuff	400	B	Breccia
234	V3a/f	Coarse Lapilli Tuff	410	B1	Diatreme
235	V3e	Fine Lapilli Tuff	413	B1a	Monolithic Diatreme
236	V3f	Ash Tuff	415	B1b	Heterolithic Diatreme
237	V3g	Crystal Lithic Tuff Tuffs -	420	B2	Hydrothermal
238	V3h	Mixed/Undiff	423	B2a	Monolithic Hydrothermal
239	V3e/h		425	B2b	Heterolithic Hydrothermal
240	V4	Mafic	430	B3	Orthomagmatic
241	V4a	Flow	433	B3a	Monolithic Orthomagmatic
242	V4b	Porphyritic	435	B3b	Heterolithic Orthomagmatic
243	V4a/b	Porphyritic Flow			
244	V4d	Breccia	500	D	Dikes
245	V4e	Coarse Lapilli Tuff	510	D1	Lamprophyre
246	V4f	Fine Lapilli Tuff	520	D2	Mafic
247	V4g	Ash Tuff	530	D3	Intermediate
248	V4h	Crystal Lithic Tuff Tuffs -	540	D4	Felsic
249	V4e/h	Mixed/Undiff			
250	V5	Intermediate	700	FZN	Fault Zone
251	V5a	Flow	900	OVB	Overburden
252	V5b	Porphyritic	999	NR	No Recovery
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	V6	Felsic			
266	V6f	Fine Lapilli Tuff			
267	V6g	Ash Tuff			

## **APPENDIX V**

### **DRILL SECTIONS AND MAPS**



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

Cu Assay Values

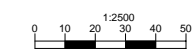
Au Assay Values

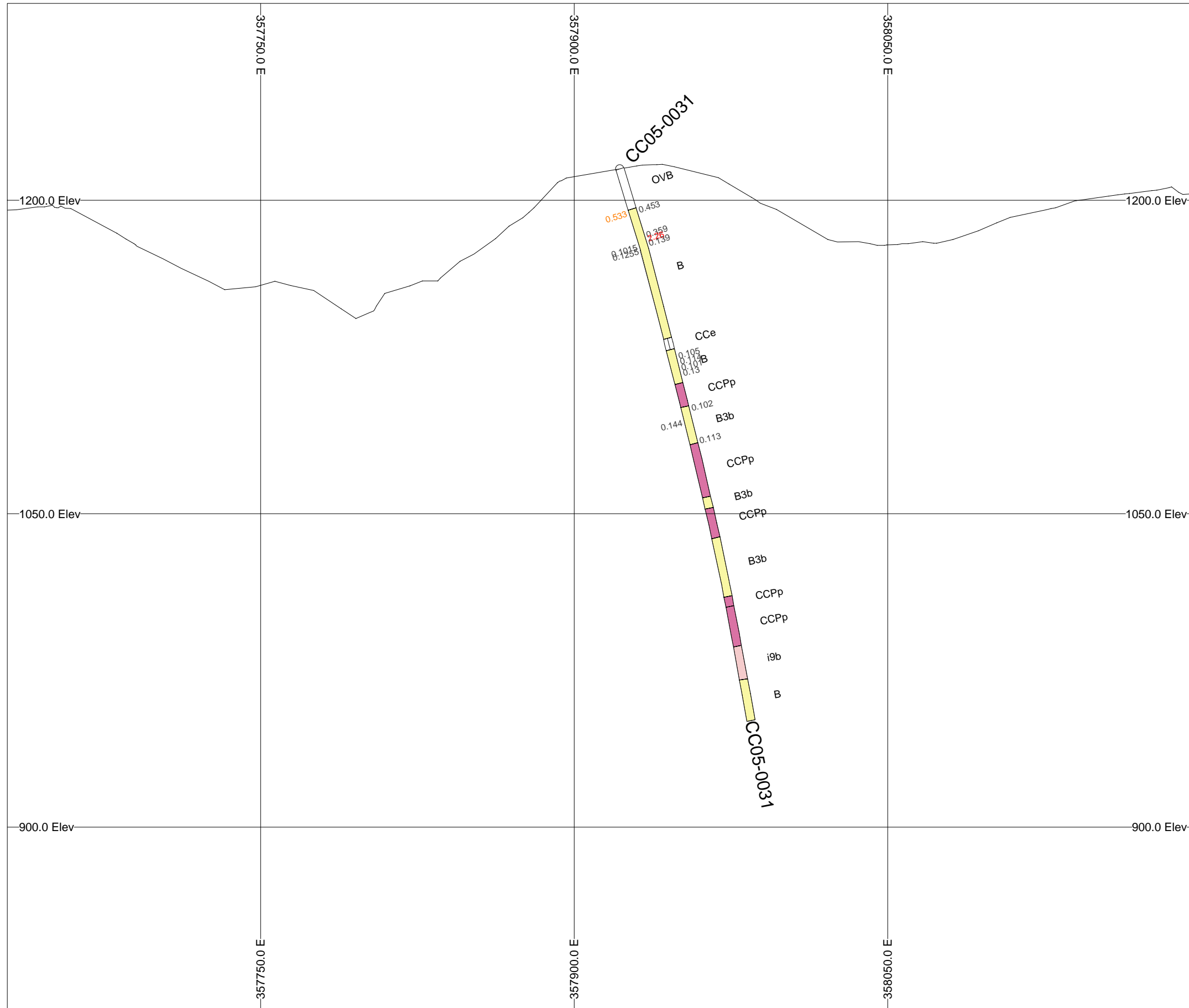
0.1 to 0.49 (%)
0.5 to 1.99 (%)
> 2.0 (%)

0.1 to 0.99 (g/t)
1.0 to 1.99 (g/t)
> 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.**  
 Galore Creek Copper Canyon Project  
 British Columbia, Canada  
 Hole CC05-0030 Geology and Assay Results  
 Section 6333251.01 N East West View  
 Date: 01/13/06 Plate 1





S SEDIMENTARY - Undivided
V1 VOLCANIC - Augite Bearing
V2 VOLCANIC - Psuedoleucite Bearing
V3 VOLCANIC - Orthoclase Bearing
V4 VOLCANIC - Mafic
V5 VOLCANIC - Intermediate
V6 VOLCANIC - Felsic
i1 INTRUSIVE - Psuedoleucite Porphyry
i2 INTRUSIVE - Psuedoleucite 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

Cu Assay Values

Au Assay Values

0.1 to 0.49 (%)
0.5 to 1.99 (%)
> 2.0 (%)

0.1 to 0.99 (g/t)
1.0 to 1.99 (g/t)
> 2.0 (g/t)

Note:

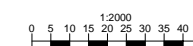
Au Values located on right hand side of drill trace.

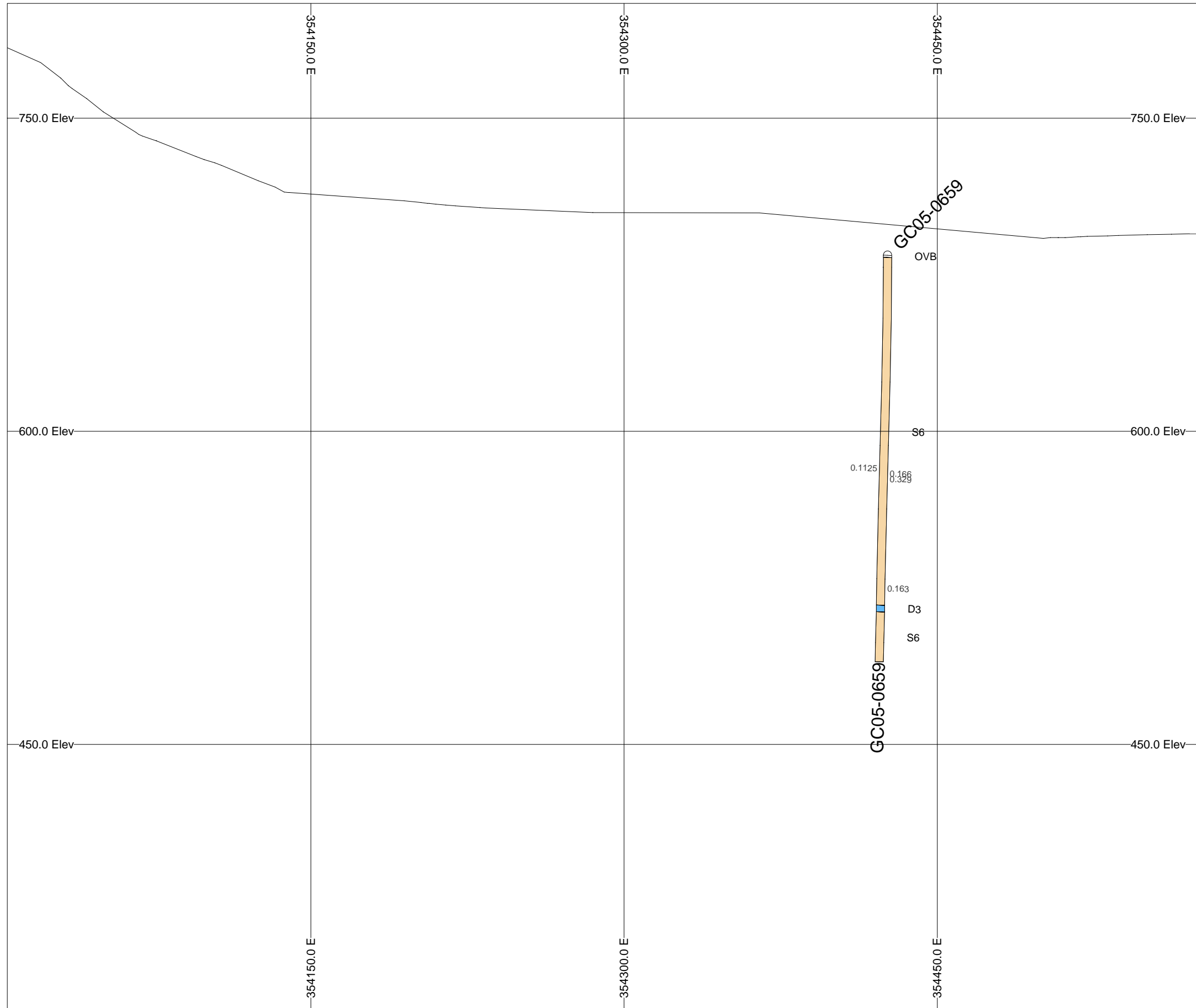
Cu Values located on left hand side of drill trace.

Au Values below 0.1g/t are not shown.

Cu Values below 0.1 % are not shown.

**NovaGold Canada Inc.**  
 Galore Creek Copper Canyon Project  
 British Columbia, Canada  
 Hole CC05-0031 Geology and Assay Results  
 Section 6332857.00 N East West View  
 Date: 01/13/06 Plate 2





S SEDIMENTARY - Undivided
V1 VOLCANIC - Augite Bearing
V2 VOLCANIC - Psuedoleucite Bearing
V3 VOLCANIC - Orthoclase Bearing
V4 VOLCANIC - Mafic
V5 VOLCANIC - Intermediate
V6 VOLCANIC - Felsic
I1 INTRUSIVE - Psuedoleucite Porphyry
I2 INTRUSIVE - Psuedoleucite 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

Cu Assay Values

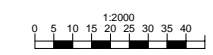
0.1 to 0.49 (%)
0.5 to 1.99 (%)
> 2.0 (%)

Au Assay Values

0.1 to 0.99 (g/t)
1.0 to 1.99 (g/t)
> 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.**  
 Galore Creek Copper Canyon Project  
 British Columbia, Canada  
 Hole GC05-0659 Geology and Assay Results  
 Section 6333549.00 N East West View  
 Date: 01/13/06 Plate 3



# GEOLOGY OF THE COPPER CANYON PROPERTY

## EXPLANATION

- Platetectonic waste**
  - Ogy: Young glacial deposits: includes lateral moraines from Copper and tributary glaciers: original depositional morphology is generally well preserved, much of the unit is ice cored, and post-depositional dissection minimal.
  - Ogo: Old glacial deposits: includes deeply dissected ground moraine material from main-stage Pleistocene glacial advances. Unit covers ridges and hillslopes high above the valley floors. Thickness ranges up to approximately 20 meters.
- Tertiary 7 Late dikes**
  - D4 dikes: Felicit post-mineral and post-deformation dikes consist of very-fine-grained K-feldspar and rutile sites. They commonly show flow foliation and occur as vertically extensive, high-angle tabular dikes up to a few tens of meters thick. One D4 dike cuts the thrust fault in Copper Canyon so is younger.
  - D3 dikes: Intermediate composition post-mineral and post-deformation dikes contain subhedral phenocrysts of hornblende set in a fine-grained groundmass of plagioclase and K-feldspar. These dikes are generally 1-2 meters thick and continuous along strike for 10's to 100's of meters. They commonly intrude near and along the earlier H and I5 dikes.
- post-eruptive sequences**
  - Trs: Epiclastic sediments: consists primarily of reworked material from the underlying Tuff and lavas. Lithologies include conglomerate, normally graded coarse-grained, crystal-rich sandstone and local accumulations of fine sand and siltstone. Grain size, bedforms and bed thickness variations indicate deposition in a fluvial environment with a generally east to west direction of sedimentation. Some exposures contain secondary replacements of K-feldspar concentrated along bedding and disseminated specular hematite.
  - Trt: Pleistocene tuff: poorly sorted litho-rich accumulations of volcanic debris; consists of abundant rounded and angular fragments of syenite porphyry and altered lava in both clast and matrix support. Boronite bearing fragments were locally noted. Groundmass consists primarily of a fine-grained aggregate of K-feldspar with abundant broken and euhedral 0.5 cm pseudocubic and euhedral 0.5 to 1 cm accessory lapilli. Locally contains thin fluvo-lacustrine beds that contain 1 cm accretionary lapilli, demonstrating subaerial erosion. Unit has silty and silty of fine- to medium-grained pseudotachyite-bearing syenite porphyry apparently derived throughout much of the unit and local zones show strong potassic alteration.
  - Trxt: Crystal tuff: Unit includes a fault-bound sequence of syenitic crystal tuff in upper Dog House Creek that consists of an aggregate of greater than 30 percent shattered K-feldspar crystals set in a silty groundmass. Unit is compositionally similar to the pleistocene tuff, but lacks the lithic fragments. It's stratigraphic position is unknown.
  - Trb: volcanic and/or orthomagmatic breccia: massive, composite litho-bearing unit consisting of fine-grained to aphanitic syenite containing variable amounts of lithic fragments. The very-fine-grained to aphanitic groundmass contains vitricity concentrated sub to euhedral 0.5 cm pseudocubic and euhedral 0.5 to 1 cm long K-feldspar phenocrysts. Lithic fragments are derived from multiple sources but many resemble the textures of the CCP suite. They are generally subrounded to angular and 1-5 cm long. Locally they are up to 20 to 30 cm or more in diameter and "float" in matrix support. Dissected from them from the grain-supported lithics in unit Trt. These textures and the unit's discordant distribution suggest that it may represent a sub-volcanic "feeder" to unit Trt.
- eruptive sequence**
  - D1 dikes: Biotite lamprophyre dikes consist of euhedral biotite and K-feldspar phenocrysts in a fine-grained groundmass of orthoclase and plagioclase. Flat from the D1 dikes occurs locally in abundance but only two outcrops were noted.
  - I9 dikes: K-feldspar megacrystic syenite dikes occur locally in lower Dog House Creek. They consist of euhedral K-feldspar phenocrysts up to 10 cm long set in a fine- to locally medium-grained K-feldspar groundmass. The unit shows local concentrations of disseminated pyrite but otherwise unaltered.
  - I8 - I8 intrusive suite: Fine- to medium-grained equigranular syenite. Groundmass consists of sub- to euhedral K-feldspar intricately intergrown with anhedral plagioclase. Subhedral biotite and euhedral hornblende up to 2mm long occur disseminated throughout. Unit occurs in upper Dog House Creek as an unaltered sill-form intrusion.
  - I5 dikes: consist of syenite K-feldspar porphyry dikes that intrude the CCP complex. They contain euhedral K-feldspar crystals up to 1 cm in a fine-grained K-feldspar groundmass. Propagative alteration is common and consists primarily of chloritization of mafic constituents. A locally strong fracture cleavage cuts the dikes and some outcrop patterns indicate that they may be folded.
  - I5p dikes: Syenite K-feldspar porphyry dikes similar in texture to the I5 dikes but with up to 5 percent rounded and zoned 0.5 to 1 cm phenocrysts of pseudocubic K-feldspar intrude the CCP complex. They commonly show strong K-feldspar alteration and contain high levels of disseminated pyrite and locally chalcopyrite. Outcrops are commonly jarosite stained.
  - I4 dikes: Syenite K-feldspar porphyry dikes with euhedral equant to stubby 1 cm K-feldspar phenocryst set in a dark fine-grained orthoclase-biotite groundmass cut the CCP complex. They commonly show pervasive K-feldspar-biotite-pyrite alteration with local occurrences of chalcopyrite.
  - CCP intrusive suite: Unit includes two primary textural phases, one is pseudocubic dominant (CCP1) and the other K-feldspar (CCP2). The pseudocubic phase appears to be older based on outcrop distribution that appears to reflect crosscutting relationships. It consists of up to 30 percent rounded to euhedral 0.25 to 0.5 cm phenocrysts of pseudocubic with subordinate 0.5 to 1 cm tabular, euhedral K-feldspar crystals set in a fine-grained equigranular groundmass that consists primarily of K-feldspar and biotite. CCP1, the K-feldspar-dominant phase, consists of up to 30 or more percent tabular, often trachytic, euhedral phenocrysts of orthoclase with subordinate pseudocubic in a K-feldspar-rich groundmass. Relationships in core show that these two phases grade imperceptibly from one to the other over short distances, and the two phases are commonly indistinguishable. The unit is the primary host for Cu-Au mineralization; alteration-related K-feldspar includes both discordant veins and pervasive replacement. The strongest altered zones include abundant disseminations and veins of secondary biotite; 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%.
  - Trv: Alkaline volcanic sequence: intermediate alkalic lavas, epiclastic sediments, and fragmentals. Unit consists of two contemporaneous but spatially unique phases; the eastern and northern phase consists primarily of potassic intermediate lavas with local accumulations of lahars, volcanically derived sands and interbedded calc-tuffites. Alteration of these strata includes pervasive disseminated Fe-carbonate, pyrite, secondary K-feldspar and biotite, and locally disseminated chalcopyrite. Exposures in and near Copper Canyon show the greatest degree of alteration. Abundant and pervasive accumulations of lithic fragments floating within the lavas make the western facies unique. This complex sequence of litho-rich potassic lavas consists of a fine-grained to aphanitic K-feldspar-rich groundmass with local phenocrysts of K-feldspar. Lithic fragments range in size up to 20 cm and include K-feldspar porphyry and aphyric intermediate lavas.
- pre-eruptive sequences**
  - Trp: Siliceous phyllic siltstone and interbedded limestone. This unit occurs unfaulted below the ridge-capping Permian limestone. Based on paleontological samples collected and interpreted by Jim Logan the siltstone unit is middle Triassic and therefore younger than the overlying limestone, indicating that the entire section above the thrust fault is overturned. Exposures adjacent to the thrust fault show strong deformational fabrics, including pervasive tight isoclinal folding.
- Permian middle Triassic allochthonous hangingwall sequence**
  - PI: Limestone: Medium- to thick-bedded, locally fossiliferous, Permian-age limestone occurs stratigraphically above the allochthonous section of unit Trp. The unit is generally massive to well bedded. It locally shows strong deformational fabrics, probably due to thrust faulting.

- Contact, approximately located
- Contact, inferred
- Fault, Thrust
- Fault, Normal
- Fault, inferred
- Outcrop
- Area of exposed chalcopyrite in outcrop
- Area of exposed pyrite in outcrop
- Shear fabric
- tightly spaced cleavage
- Axial planar foliation
- Fold axis
- Dike orientation
- Vein orientation
- Bedding or lithological layering
- Flow foliation

Grid North

Projection: NAD 83 Zone 9; 25 meter contours with subordinate intervals at 5 meters, based on custom flow digital elevation model. File created in ACAD MAP v2004.

Copper Canyon Project

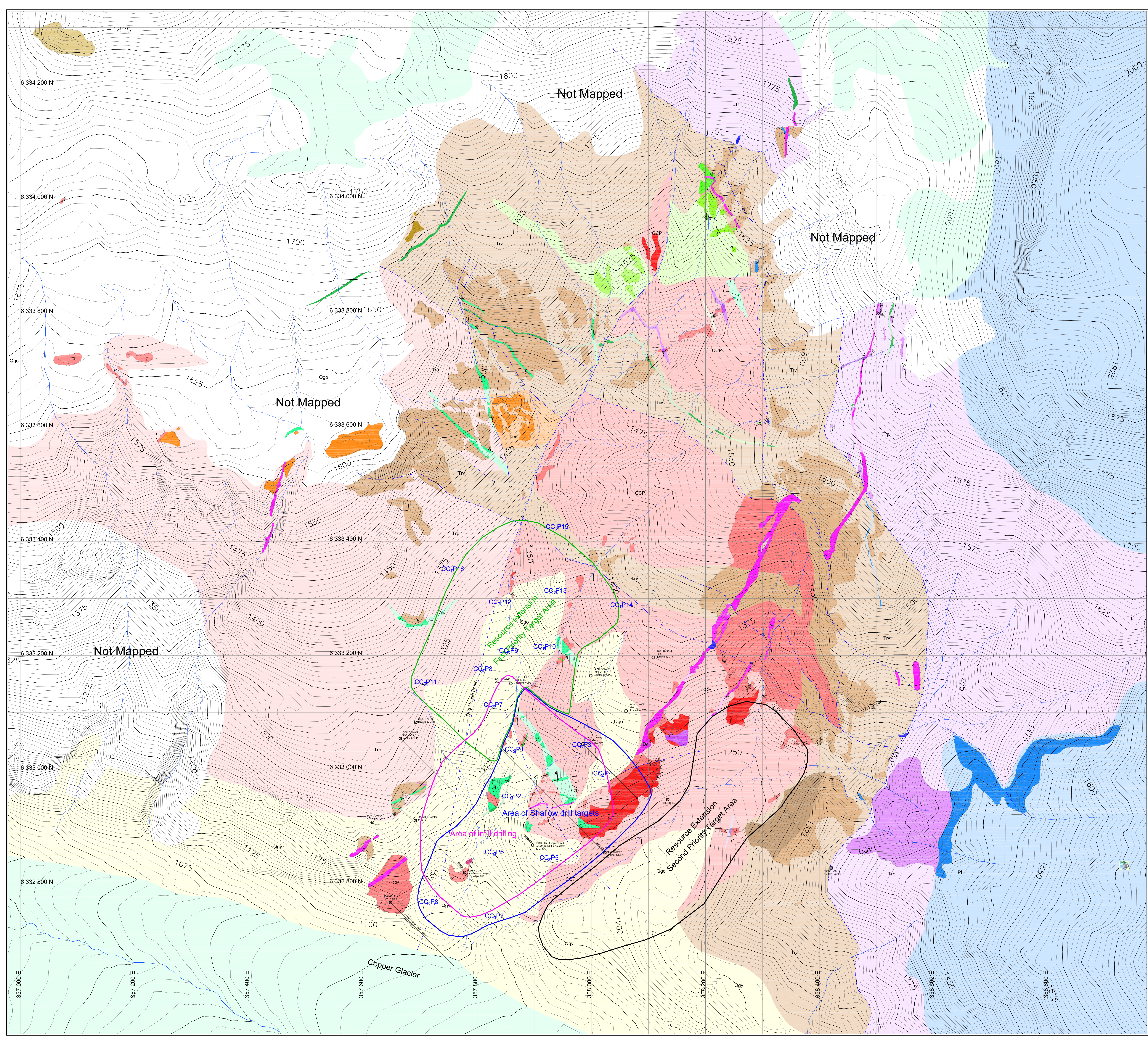
British Columbia, Canada

Property Geology

Scale 1:2000 Plate 4

Scale 1:2,000 (1 cm = 20 Meters)

0 20 40 60 80 100



Scale 1:2000 Plate 4

## **APPENDIX VI**

### **COPPER CANYON DIAMOND DRILL LOGS**





Lithology				Structure			Sampling and Assay						Elev. (m)					
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t		Cu Eqv %	From (m)	To (m)	Cu Eq %	
	OVB			OVERBURDEN					1.0	3.5	0.01	0.01	0.10					
					JN				3.5	6.0	0.01	0.00	0.10					
					VN				6.0	8.5	0.01	0.01	0.20					
-10							0.005		8.5	11.0	0.01	0.00	0.10				674	
									11.0	13.5	0.00	0.00	0.10					
									13.5	16.0	0.01	0.05	0.20					
									16.0	18.5	0.09	0.04	0.90					
-20									18.5	21.0	0.02	0.00	0.30				664	
									21.0	23.5	0.01	0.00	0.10					
									23.5	26.0	0.01	0.01	0.30					
									26.0	28.5	0.00	0.00	0.10					
-30					S0				28.5	31.0	0.00	0.00	0.10				654	
									31.0	33.5	0.00	0.00	0.10					
									33.5	36.0	0.00	0.00	0.10					
									36.0	38.5	0.01	0.00	0.10					
-40									38.5	41.0	0.01	0.01	0.10				644	
									41.0	43.5	0.01	0.00	0.10					
									43.5	46.0	0.01	0.06	3.70	0.09				
					S0				46.0	48.5	0.00	0.00	0.10					
-50	S6		V3	EPICLASTIC SEDIMENT, Green strongly chl and carbonate matrix containing 35-60% sub-angular to irregular shaped clasts. Clasts are volcanic in origin and occasionally have chl alteration rims. Clasts also have reabsorbed looking edges. Occasional fine to coarse grained intervals display parallel bedding. At 85.5m bedding was observed to have flame structures indicating tops uphole. Primary biotite found in unit as well as occasional tabular k-spar phenos. Bedding throughout unit is between 55-60 TCA. Top of unit contains a majority of hem altered clasts, @ 56.47m clasts no longer dominated by hem altered, possibly an alternation front and not bedding here (recorded as bedding in structure columns). Epidote alteration in unit is blebby to tubular (plag phenos?). From 11.89-13.24m matrix becomes hem rich and less epidote is present. From 136 to 144.3m unit takes on pseudobreccia look due to carbonate + epidote veining. At 137 unit starts to get car veinlets and stringers throughout. Pyrite is disseminated in patchy high concentrations and trace elsewhere. Spec is along fracture surfaces as well as splashes, Cp is along fracture surfaces as well as with some anh veins.					48.5	51.0	0.01	0.01	0.30	0.01	0.0	195.0	0.00	634
									51.0	53.5	0.00	0.00	0.10					
									53.5	56.0	0.00	0.00	0.10					
					FCL				56.0	58.5	0.00	0.01	0.20					
-60									58.5	61.0	0.01	0.01	0.20				624	
									61.0	63.5	0.01	0.01	0.20					
									63.5	66.0	0.01	0.00	0.10					
					S0				66.0	68.5	0.02	0.02	0.20					
-70									68.5	71.0	0.04	0.01	0.10				614	
									71.0	73.5	0.01	0.02	0.10					
									73.5	76.0	0.01	0.04	0.40					
									76.0	78.5	0.03	0.02	0.10					
-80									78.5	81.0	0.01	0.08	1.00				604	
									81.0	83.5	0.01	0.01	0.10					
									83.5	86.0	0.01	0.03	0.30					
					S0				86.0	88.5	0.01	0.01	0.10					
-90									88.5	91.0	0.00	0.02	0.10				594	
									91.0	93.5	0.02	0.07	0.70					
									93.5	96.0	0.01	0.00	0.10					
									96.0	98.5	0.06	0.03	0.30					
									98.5	101.0	0.02	0.01	0.10					



# NovaGold Resources Inc

Azimuth: 360

Dip: -90 Depth (m): 195.00

Logger N. Commodore DDH No.: GC05-0659

UTM N: 6333549.54

UTM E: 354426.32

Project: Galore Creek Sheet No.: 2

Lithology				Structure			Sampling and Assay							Elev. (m)			
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)	Cu Eq %	Elev. (m)
-110 -120 -130 -140 -150 -160 -170 -180 -190	S6	[Circular pattern]	V3	<p>EPICLASTIC SEDIMENT, Green strongly chl and carbonate matrix containing 35-60% sub-angular to irregular shaped clasts. Clasts are volcanic in origin and occasionally have chl alteration rims. Clasts also have reabsorbed looking edges. Occasional fine to coarse grained intervals display parallel bedding. At 85.5m bedding was observed to have flame structures indicating tops uphole. Primary biotite found in unit as well as occasional tabular k-spar phenos. Bedding throughout unit is between 55-60 TCA. Top of unit contains a majority of hem altered clasts, @ 56.47m clasts no longer dominated by hem altered, possibly an alternation front and not bedding here (recorded as bedding in structure columns). Epidote alteration in unit is blebby to tubular (plag phenos?). From 11.89-13.24m matrix becomes hem rich and less epidote is present. From 136 to 144.3m unit takes on pseudobreccia look due to carbonate + epidote veining. At 137 unit starts to get car veinlets and stringers throughout. Pyrite is disseminated in patchy high concentrations and trace else where. Spec is along fracture surfaces as well as splashes, Cp is along fracture surfaces as well as with some anh veins.</p> <p>Intermediate dyke, Grey micro-porphyrific rock consisting of sericitically altered plag, and chl altered hornblende lathes set in a fine grained moderately k-spar altered groundmass. Towards contacts unit becomes aphanitic chl altered with 3% epi blebs. Pyrite is disseminated as well as associated with epi. Hem along fracture surfaces with spec. Upper contact is lost due to broken rock. Lower contact @ 25 degrees TCA with associated parallelish veinlets in lower rock unit.</p>	VN	[Diagram]	0.02	98.5	101.0	0.02	0.01	0.10	0.03	0.0	195.0	0.00	574
					VN	[Diagram]	0.035	101.0	103.5	0.09	0.11	4.00	0.20				
					VN	[Diagram]	0.035	103.5	106.0	0.17	0.06	2.00	0.17				
					VN	[Diagram]	0.035	106.0	108.5	0.33	0.01	0.70	0.22				
					VN	[Diagram]	0.035	108.5	111.0	0.01	0.03	0.90	0.04				
					VN	[Diagram]	0.035	111.0	113.5	0.01	0.02	0.90	0.04				
					VN	[Diagram]	0.035	113.5	116.0	0.02	0.01	0.60	0.03				
					VN	[Diagram]	0.035	116.0	118.5	0.02	0.01	0.70	0.03				
					VN	[Diagram]	0.035	118.5	121.0	0.01	0.02	0.70	0.04				
					VN	[Diagram]	0.035	121.0	123.5	0.01	0.03	1.50	0.05				
					VN	[Diagram]	0.035	123.5	126.0	0.01	0.01	0.50	0.02				
					VN	[Diagram]	0.035	126.0	128.5	0.02	0.02	0.50	0.03				
					VN	[Diagram]	0.035	128.5	131.0	0.01	0.02	0.60	0.03				
					JN	[Diagram]	0.035	131.0	133.5	0.01	0.02	0.50	0.03				
					JN	[Diagram]	0.035	133.5	136.0	0.01	0.00	0.40	0.01				
					JN	[Diagram]	0.035	136.0	138.5	0.01	0.02	0.60	0.03				
					JN	[Diagram]	0.035	138.5	141.0	0.00	0.00	0.40	0.01				
					JN	[Diagram]	0.035	141.0	143.5	0.01	0.02	0.90	0.03				
					JN	[Diagram]	0.035	143.5	146.0	0.00	0.00	0.30	0.01				
					VN	[Diagram]	0.01	146.0	148.5	0.00	0.00	0.40	0.01				
					VN	[Diagram]	0.01	148.5	151.0	0.00	0.01	0.70	0.01				
					VN	[Diagram]	0.01	151.0	153.5	0.01	0.01	0.10	0.01				
					VN	[Diagram]	0.01	153.5	156.0	0.04	0.00	0.40	0.03				
					VN	[Diagram]	0.01	156.0	158.5	0.02	0.00	0.30	0.02				
					VN	[Diagram]	0.012	158.5	161.0	0.16	0.01	0.70	0.11				
VN	[Diagram]	0.012	161.0	163.5	0.06	0.00	0.70	0.05									
VN	[Diagram]	0.012	163.5	166.0	0.03	0.01	0.60	0.03									
CT	[Diagram]	0.012	166.0	167.7	0.02	0.01	0.60	0.03									
CT	[Diagram]	0.012	167.7	170.9	0.00	0.01	0.40	0.01									
VN	[Diagram]	0.012	170.9	173.5	0.03	0.03	1.50	0.06									
VN	[Diagram]	0.012	173.5	176.0	0.04	0.03	3.70	0.08									
VN	[Diagram]	0.012	176.0	178.5	0.02	0.02	1.10	0.04									
VN	[Diagram]	0.012	178.5	181.0	0.03	0.00	0.30	0.02									
VN	[Diagram]	0.012	181.0	183.5	0.03	0.00	0.50	0.03									
VN	[Diagram]	0.012	183.5	186.0	0.06	0.02	1.10	0.07									
VN	[Diagram]	0.012	186.0	188.5	0.03	0.04	1.00	0.07									
VN	[Diagram]	0.012	188.5	191.0	0.02	0.02	0.60	0.04									
VN	[Diagram]	0.012	191.0	193.0	0.06	0.01	0.30	0.05									
VN	[Diagram]	0.012	193.0	194.8	0.02	0.02	0.60	0.03									



# NovaGold Resources Inc

Azimuth: 360

Dip: -90 Depth (m): 195.00

Logger: N. Commodore

DDH No.: GC05-0659

UTM N: 6333549.54

UTM E: 354426.32

Project: Galore Creek

Sheet No.: 1

Scale (m)	Lithology		Alteration											Mineralization								Assays					Composites			Elev. (m)																									
	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)		Cu Eqv %																								
0	QVB	QVB	?	?	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	1.0 3.5	3.5 6.0	0.01	0.01	0.10	0.01				674																								
10	S6	QVB	V3	?	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	1.0 3.5	3.5 6.0	0.01	0.01	0.10	0.01				674																									
20																					6.0 8.5	8.5 11.0	0.01	0.01	0.20	0.02													664																
30																					11.0 13.5	13.5 16.0	0.00	0.00	0.10	0.00																											654		
40																					16.0 18.5	18.5 21.0	0.01	0.05	0.20	0.06																													
50																					21.0 23.5	23.5 26.0	0.02	0.00	0.30	0.02																													
60																					26.0 28.5	28.5 31.0	0.01	0.01	0.30	0.01																													
70																					31.0 33.5	33.5 36.0	0.00	0.00	0.10	0.00																													
80																					36.0 38.5	38.5 41.0	0.00	0.00	0.10	0.00																													
90																					41.0 43.5	43.5 46.0	0.01	0.01	0.10	0.01																													
100																					46.0 48.5	48.5 51.0	0.01	0.01	0.10	0.00																													
																					51.0 53.5	53.5 56.0	0.01	0.01	0.30	0.01																0.0	195.0	0.00											
																					56.0 58.5	58.5 61.0	0.00	0.01	0.20	0.01																													
																					61.0 63.5	63.5 66.0	0.01	0.01	0.20	0.02																													
																					66.0 68.5	68.5 71.0	0.01	0.02	0.40	0.05																													
																					71.0 73.5	73.5 76.0	0.03	0.02	0.10	0.04																													
																					76.0 78.5	78.5 81.0	0.01	0.08	1.00	0.10																													
																					81.0 83.5	83.5 86.0	0.01	0.01	0.10	0.02																													
																					86.0 88.5	88.5 91.0	0.01	0.01	0.10	0.01																													
																					91.0 93.5	93.5 96.0	0.02	0.07	0.70	0.08																													
																					96.0 98.5	98.5 101.0	0.06	0.03	0.30	0.06																													
	101.0 103.5	103.5 106.0	0.09	0.11	4.00	0.20																																																	

Scale 1:500

Galore Creek Project, BC, Canada

19 Dec 2005



# NovaGold Resources Inc

Azimuth: 360

Dip: -90 Depth (m): 195.00

Logger: N. Commodore

DDH No.: GC05-0659

UTM N: 6333549.54

UTM E: 354426.32

Project: Galore Creek

Sheet No.: 2

Scale (m)	Lithology		Alteration											Mineralization							Assays					Composites			Elev. (m)					
	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)		To (m)	Cu Eqv %			
110	S6	[Patterned]	V3	?	[Yellow]	[Grey]	[Green]	[Light Green]	[White]	[Cyan]	[Blue]	[Dark Green]	[Dark Green]	[White]	[White]	[Orange]	[Grey]	[Grey]	[Pink]	[White]	103.5	106.0	0.17	0.06	2.00	0.17	0.0	195.0	0.00	574				
106.0																					108.5	0.33	0.01	0.70	0.22									
108.5																					111.0	0.01	0.03	0.90	0.04									
111.0																					113.5	0.01	0.02	0.90	0.04									
113.5																					116.0	0.02	0.01	0.60	0.03									
116.0																					118.5	0.02	0.01	0.70	0.03									
118.5																					121.0	0.01	0.02	0.70	0.04									
121.0																					123.5	0.01	0.03	1.50	0.05									
123.5																					126.0	0.01	0.01	0.50	0.02									
126.0																					128.5	0.02	0.02	0.50	0.03									
128.5																					131.0	0.01	0.02	0.60	0.03									
131.0																					133.5	0.01	0.02	0.50	0.03									
133.5																					136.0	0.01	0.00	0.40	0.01									
136.0																					138.5	0.01	0.02	0.60	0.03									
138.5																					141.0	0.00	0.00	0.40	0.01									
141.0																					143.5	0.01	0.02	0.90	0.03									
143.5																					146.0	0.00	0.00	0.30	0.01									
146.0																					148.5	0.00	0.00	0.40	0.01									
148.5																					151.0	0.00	0.01	0.70	0.01									
151.0	153.5	0.01	0.01	0.10	0.01																													
153.5	156.0	0.04	0.00	0.40	0.03																													
156.0	158.5	0.02	0.00	0.30	0.02																													
158.5	161.0	0.16	0.01	0.70	0.11																													
161.0	163.5	0.06	0.00	0.70	0.05																													
163.5	166.0	0.03	0.01	0.60	0.03																													
166.0	167.7	0.02	0.01	0.60	0.03																													
167.7	170.9	0.00	0.01	0.40	0.01																													
170.9	173.5	0.03	0.03	1.50	0.06																													
173.5	176.0	0.04	0.03	3.70	0.08																													
176.0	178.5	0.02	0.02	1.10	0.04																													
178.5	181.0	0.03	0.00	0.30	0.02																													
181.0	183.5	0.03	0.00	0.50	0.03																													
183.5	186.0	0.06	0.02	1.10	0.07																													
186.0	188.5	0.03	0.04	1.00	0.07																													
188.5	191.0	0.02	0.02	0.60	0.04																													
191.0	193.0	0.06	0.01	0.30	0.05																													
193.0	194.8	0.02	0.02	0.60	0.03																													
200																																		484

Scale 1:500

Galore Creek Project, BC, Canada

19 Dec 2005



# NovaGold Resources Inc

Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 1

Lithology				Structure			Sampling and Assay						Elev. (m)							
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t		Cu Eqv %	From (m)	To (m)	Cu Eq %			
10	OVB			OVERBURDEN																
	i5			FINE GRAINED SYENITE MEGAPORPHYRY: ~10% ksp megacrysts 1-3cm, tabular to equant. Pink ksp alteration, Some faint primary zoning. Rare fractured crystals. Nearer to lower contact (~50cm) abundant pinkish ksp 2-5mm, possibly chill margin. Groundmass is very fine grained, mostly ksp plus alteration to minor sericite and moderate calcite. (Possible replacements after biotite patches). Alteration is weak ksp replacement of groundmass and phenocrysts; and biotite destruction to py +/- hm and ser and carbonate.				5.8	8.8	0.41	0.05	0.50	0.30				1299			
20	V2f		B1b?	PSEUDOLEUCITE BEARING FINE LAPILLI TUFF: A moderately altered, faintly fragmental rock with sparse intervals containing pseudoleucite. Texture is groundmass of secondary ksp (+/-ser), disseminated secondary biotite, calcite and minor anh disseminated. Lithic fragments are 3-15mm and constitute appr. 1% of the rock, concentration varies over the bench. Fragmental texture becomes more clear after 55 meters. Fragments are angular to subangular. No bedding is apparent, though there are broad textural variations. Other fragments are bits of ksp phenos 1-5mm and pseudoleucites 1-8mm. Alteration is more or less bio stable until approx. 30m. After that, bio seems partly replaced by ser-car+/-gar+/-anh. Ser also attacks ksp esp at 35m, possibly associated fluorite mineralization is dissemination py trace cp. Rare hairline pyrite veins. At ~31.5m 1-2mm fl-py vn. @41m 3 or 4! 10cm dyklets of fg groundmass porphyry with ksp phenos 0.5-1cm tabular, euhedral, trachytic. Much like i5 without megacrysts. Associated with locally ~10% pyrite clots and subhedral cubes.	VN	///	0.002	30.2	33.2	0.05	0.07	1.40	0.12				1281			
					PA	///		33.2	36.3	0.03	0.06	1.40	0.09						1272	
					FCL	///	4	36.3	39.3	0.03	0.09	1.40	0.12							1263
					FCL	///	2	39.3	42.4	0.02	0.07	1.30	0.09							1254
					CT	///		42.4	45.4	0.01	0.03	0.60	0.04							1245
					FCL	///		45.4	48.5	0.03	0.05	0.80	0.08							1236
					FCL	///		48.5	51.5	0.03	0.05	0.90	0.07							1227
30	V3h		B1b	ORTHOCLASE BEARING CRYSTAL LITHIC TUFF: As previous unit, but gradually increasing clast density and pseudoleucite is not visible anymore. Rock is strongly altered to weak ksp, 1cm scale clots of mg secondary biotite (possibly clasts themselves, or replacing clasts). Garnet alteration is finely disseminated. Clay alteration is possibly hypogene, replacing feldspars. Sulfides are nearly absent.	FCL	///	6	51.5	54.6	0.01	0.02	0.50	0.03							
					CT	///		54.6	57.6	0.01	0.03	0.70	0.04							
					FCL	///		57.6	60.7	0.01	0.06	1.20	0.08							
					CT	///		60.7	63.7	0.01	0.03	0.90	0.05							
					FCL	///		63.7	66.8	0.01	0.03	0.70	0.04							
					CT	///		66.8	69.8	0.01	0.01	0.60	0.02							
40	i5			MEDIUM GRAINED SYENITE MEGAPORPHYRY: As previous i5. This unit once again carries more pyrite than surrounding rocks. Center of unit is strongly bleached, altered to white-gray ksp. Sericite alteration is present along microfractures which are dense in this area. Hem also along veinlets within ksp flooded zones. @92m possible minor fault: increased fracture and gouge.	FLT	///	1	69.8	72.8	0.01	0.03	0.70	0.05							
					FCL	///		72.8	75.9	0.01	0.02	0.50	0.03							
					CT	///		75.9	78.9	0.02	0.03	0.70	0.05							
					FCL	///		78.9	82.0	0.01	0.02	0.60	0.03							
					CT	///		82.0	85.0	0.01	0.01	0.40	0.02							
50						///		85.0	87.1	0.04	0.07	1.00	0.11							
						///		87.1	89.1	0.01	0.02	0.40	0.03							
						///		89.1	91.1	0.02	0.02	0.10	0.03							
60						///		91.1	94.2	0.01	0.01	0.30	0.01							
						///		94.2	97.2	0.01	0.00	0.30	0.01							
70						///		97.2	100.3	0.01	0.01	0.50	0.02							
						///														



# NovaGold Resources Inc

Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 2

Lithology				Structure			Sampling and Assay						Elev. (m)				
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t		Cu Eqv %	From (m)	To (m)	Cu Eq %
110	i5	[Pattern]		MEDIUM GRAINED SYENITE MEGAPORPHYRY: As previous i5. This unit once again carries more pyrite than surrounding rocks. Center of unit is strongly bleached, altered to white-gray kspar. Sericite alteration is present along microfractures which are dense in this area. Hem also along veinlets within ksp flooded zones. @92m possible minor fault: increased fracture and gouge.	FCL		2	100.3	103.3	0.01	0.01	0.40	0.02				1209
					CT			103.3	106.4	0.01	0.01	0.40	0.02				
120	V3h	[Pattern]	B1b	ORTHOCLASE BEARING CRYSTAL LITHIC TUFF: As previous V3h/B1b. Strongly altered to ksp, bio, gar, cal, clay. @114.3-117.5m textural variation. Possible interval of CCPp: 30-40% 2-4mm plc crystals subhedral, dark bio/mag altered groundmass. Ambiguous contact relationships; possible 10 degree TCA upper CT. Could be breccia block, dyke, or conformable part of volcanic pile (V2 pile). To ~140m alteration continues strong bio, gar, ksp, mag is very local, varies 0.5-50% within a sample. Bio is dominant nearer contact with i5 at 146m, gives sooty black appearance. Flourite is very weakly disseminated throughout infrequent clots mg bi ~1cm continue.	JN		2	110.1	112.5	0.02	0.05	1.10	0.07				1199
					FCL			112.5	115.5	0.06	0.08	1.70	0.13				
130	V3h	[Pattern]	B1b	ORTHOCLASE BEARING CRYSTAL LITHIC TUFF: As previous V3h/B1b. Strongly altered to ksp, bio, gar, cal, clay. @114.3-117.5m textural variation. Possible interval of CCPp: 30-40% 2-4mm plc crystals subhedral, dark bio/mag altered groundmass. Ambiguous contact relationships; possible 10 degree TCA upper CT. Could be breccia block, dyke, or conformable part of volcanic pile (V2 pile). To ~140m alteration continues strong bio, gar, ksp, mag is very local, varies 0.5-50% within a sample. Bio is dominant nearer contact with i5 at 146m, gives sooty black appearance. Flourite is very weakly disseminated throughout infrequent clots mg bi ~1cm continue.	VN		0.003	124.7	127.7	0.05	0.08	2.20	0.13				1190
					FCL			127.7	130.8	0.04	0.17	2.60	0.21				
140	V3h	[Pattern]	B1b	ORTHOCLASE BEARING CRYSTAL LITHIC TUFF: As previous V3h/B1b. Strongly altered to ksp, bio, gar, cal, clay. @114.3-117.5m textural variation. Possible interval of CCPp: 30-40% 2-4mm plc crystals subhedral, dark bio/mag altered groundmass. Ambiguous contact relationships; possible 10 degree TCA upper CT. Could be breccia block, dyke, or conformable part of volcanic pile (V2 pile). To ~140m alteration continues strong bio, gar, ksp, mag is very local, varies 0.5-50% within a sample. Bio is dominant nearer contact with i5 at 146m, gives sooty black appearance. Flourite is very weakly disseminated throughout infrequent clots mg bi ~1cm continue.	FCL		3	133.8	136.9	0.07	0.11	2.70	0.18				1181
					CT			136.9	139.9	0.01	0.00	0.40	0.01				
150	i5	[Pattern]	i5p	MEDIUM GRAINED SYENITE MEGAPORPHYRY: As previous but contains 1-2% plc to 4mm. Ksp phenos are euhedral, tabular range 1-3cm a few are equant ~1cm. Alteration is groundmass biotite probably after primary biotite, patchy garnet, sericite, calcite, groundmass disseminated ser, cal.				142.9	146.0	0.01	0.01	0.40	0.03				1172
					JN			146.0	149.1	0.03	0.04	1.00	0.07				
160	V2e	[Pattern]		PSEUDOLEUCITE BEARING COARSE LAPILLI TUFF: Continuing textural variations on breccias up hole. A moderately altered weakly pyritized rock gradational with units above and below. Clasts are subrounded. 1-30cm various units including many CCPp/V2-like rocks ~20-30% plc. Clasts frequently replaced by gar, ser, cal more than matrix. Other clasts included mg ksp porphyry +/-plc. Matrix is fg altered moderately to bio +/- ksp. Sparse plc crystals are ~5mm. Anhydrite +/-cal veins are hairline, sub parallel, ~100/1meter.	CT			149.1	152.1	0.01	0.03	0.80	0.04				1163
					VN			152.1	153.6	0.00	0.02	0.90	0.03				
170	V2e	[Pattern]		PSEUDOLEUCITE BEARING COARSE LAPILLI TUFF: Continuing textural variations on breccias up hole. A moderately altered weakly pyritized rock gradational with units above and below. Clasts are subrounded. 1-30cm various units including many CCPp/V2-like rocks ~20-30% plc. Clasts frequently replaced by gar, ser, cal more than matrix. Other clasts included mg ksp porphyry +/-plc. Matrix is fg altered moderately to bio +/- ksp. Sparse plc crystals are ~5mm. Anhydrite +/-cal veins are hairline, sub parallel, ~100/1meter.				154.9	156.6	0.01	0.02	1.60	0.04				1154
					VN			156.6	160.1	0.03	0.07	1.50	0.10				
180	V2e	[Pattern]		PSEUDOLEUCITE BEARING COARSE LAPILLI TUFF: Continuing textural variations on breccias up hole. A moderately altered weakly pyritized rock gradational with units above and below. Clasts are subrounded. 1-30cm various units including many CCPp/V2-like rocks ~20-30% plc. Clasts frequently replaced by gar, ser, cal more than matrix. Other clasts included mg ksp porphyry +/-plc. Matrix is fg altered moderately to bio +/- ksp. Sparse plc crystals are ~5mm. Anhydrite +/-cal veins are hairline, sub parallel, ~100/1meter.	VN		0.02	162.2	165.0	0.03	0.05	1.30	0.08				1145
								165.0	167.5	0.02	0.06	1.30	0.08				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.	VN		0.001	167.5	170.0	0.01	0.04	0.70	0.05				1136
					CT			170.0	172.5	0.02	0.06	1.30	0.08				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.				172.5	175.0	0.03	0.05	1.10	0.07				1136
					VN			175.0	177.5	0.01	0.04	0.90	0.06				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.	CT		0.001	177.5	180.0	0.06	0.06	2.60	0.12				1136
								180.0	182.2	0.06	0.14	3.40	0.20				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.				182.2	185.0	0.06	0.14	3.80	0.21				1136
					VN			185.0	187.5	0.02	0.06	1.70	0.09				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.				187.5	190.0	0.13	0.18	6.20	0.31				1136
					CT			190.0	192.5	0.15	0.18	4.60	0.32				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.				192.5	195.0	0.07	0.13	2.70	0.20				1136
					VN			195.0	197.0	0.08	0.11	1.80	0.17				
190	B1b	[Pattern]	V2e?	HETEROLITHIC DIATREME BRECCIA: Moderately altered rock, similar to above in clast population, but has the characteristics of intrusive/diatreme breccia. Has subrounded clasts, matrix of unsorted ksp fragments and aphanitic black (2nd bio) groundmass. Clast concentration is greater (>10%) clasts smaller 1-10cm. Hairline anh veins continue.				197.0	198.8	0.08	0.12	2.10	0.19				1136
					CT			198.8	201.8	0.09	0.14	2.50	0.22				

Scale 1:500

Galore Creek Project, BC, Canada 2005

20 Dec 2005



# NovaGold Resources Inc

Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 3

Lithology				Structure			Sampling and Assay											
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)	Cu Eq %	Elev. (m)	
-210	D3			INTERMEDIATE DYKE: Dark green fg to aphanitic rock, phenocrysts biotite 1mm 1%. Possible pseudomorphs (gar, cal, ser) after plag. 2-3% anhedral 3-5mm.	VN		0.005	198.8	201.0	0.02	0.01	0.50	0.03					1118
								201.0	203.5	0.04	0.04	1.30	0.07					
								203.5	206.0	0.02	0.01	0.40	0.02					
								206.0	208.5	0.04	0.06	1.80	0.10					
								208.5	210.9	0.03	0.03	0.90	0.05					
								210.9	213.0	0.01	0.02	1.00	0.04					
								213.0	215.5	0.06	0.11	2.40	0.17					
								215.5	218.0	0.06	0.05	3.50	0.12					
								218.0	220.5	0.12	0.11	3.50	0.21					
								220.5	223.0	0.05	0.04	2.50	0.09					
-220	B1b		V2?	DIATREME BRECCIA: As previous B1b. Texture is more variable; large blocks are CCPp/V2, others are "CCPo", possibly some ~"i5p" like clasts. Alternates large (meter) scale textures with smaller 1-10cm textures: CCPp dominates large.	VN	/	0.002	223.0	225.5	0.02	0.02	1.50	0.05					1109
								225.5	228.0	0.03	0.05	2.20	0.09					
								228.0	230.5	0.04	0.08	2.80	0.13					
								230.5	233.0	0.04	0.09	2.70	0.14					
-230	B1b		V2?	DIATREME BRECCIA: As previous B1b. Texture is more variable; large blocks are CCPp/V2, others are "CCPo", possibly some ~"i5p" like clasts. Alternates large (meter) scale textures with smaller 1-10cm textures: CCPp dominates large.	VN	/	0.02	233.0	235.5	0.06	0.05	2.10	0.11					1100
								235.5	238.0	0.08	0.06	4.20	0.14					
								238.0	240.0	0.24	0.24	5.10	0.43					
								240.0	241.9	0.24	0.22	4.40	0.41					
-240	i5			FINE GRAINED SYENITE MEGAPORPHYRY: Pseudoleucite and ksp bearing dyke apparently associated with weak cp mineralization. As previous i5p dykes. 10% plc phenos 1-5mm, zone ksp megacrysts 0.5-4cm, tabular, ~5%, semi-trachytic. Alteration is weak ksp of phenos, possible hbl, 1-3mm to biotite. Weak gar, cal, ser of groundmass in patches. Cp, py, hem are disseminated or in a few stringers. @246.9m stringers cp, py, anh at 60 degrees TCA, parallel to contacts.	CT	/		241.9	243.7	0.12	0.15	3.00	0.25	238.0	254.5	0.33		1091
								243.7	245.5	0.04	0.03	1.80	0.06					
								245.5	247.0	0.18	0.20	4.90	0.35					
								247.0	249.5	0.18	0.22	7.40	0.40					
-250	B1b		V2?	DIATREME BRECCIA: As previous B1b. Strongly pyritized with 1-5mm cubes and clots, +/-cp. Blocks in breccia are to 50cm, dominated by plc bearing rocks: CCPp. Again clasts of ksp plc porphyry, but different from i5p above (smaller ksp phenos, less plc). Cp mineralization is associated py bio (intergrown) in interstices between ksp. @267m good cp min>py. Disseminated, stringers and veinlets (1mm).	VN	/	0.001	249.5	252.0	0.13	0.19	8.00	0.34					1082
								252.0	254.5	0.19	0.19	6.10	0.35					
								254.5	257.0	0.12	0.09	3.40	0.20					
								257.0	259.5	0.15	0.14	4.10	0.26					
-260	B1b		V2?	DIATREME BRECCIA: As previous B1b. Strongly pyritized with 1-5mm cubes and clots, +/-cp. Blocks in breccia are to 50cm, dominated by plc bearing rocks: CCPp. Again clasts of ksp plc porphyry, but different from i5p above (smaller ksp phenos, less plc). Cp mineralization is associated py bio (intergrown) in interstices between ksp. @267m good cp min>py. Disseminated, stringers and veinlets (1mm).	VN	/	0.001	259.5	262.0	0.07	0.11	2.40	0.18					1073
								262.0	264.5	0.09	0.25	3.10	0.33					
								264.5	267.0	0.08	0.13	2.30	0.20					
								267.0	269.0	0.14	0.47	5.30	0.60					
-270	CCPo			COPPER CANYON PORPHYRY (OR DOMINANT): Strongly ksp altered rock, 10% ksp, tabular phenos 0.5-1cm, sometimes trachytic. Plc phenos 5% 2-5mm. Groundmass is aphanitic gray to pink ksp and diss'd secondary biotite. Sericite partially replaces ksp along microfractures and disseminated. Weakly mineralized py, cp, hem (diss'd) Contact relationships are ambiguous. strongly altered. Possibly faulting at lower contact.	CT	/		269.0	271.5	0.17	0.04	2.10	0.16					1063
								271.5	274.0	0.03	0.10	2.90	0.14					
								274.0	276.0	0.03	0.11	3.50	0.16					
								276.0	278.5	0.15	0.65	10.40	0.84					
-280	B1b			DIATREME BRECCIA: As previous B1b.	JN	/		278.5	280.5	0.04	0.10	3.30	0.15	276.0	288.5	0.82		1054
								280.5	282.5	0.11	0.18	5.30	0.29					
								282.5	284.5	0.94	0.93	24.30	1.71					
								284.5	286.5	0.22	0.36	12.10	0.60					
-290	i5			FINE GRAINED SYENITE MEGAPORPHYRY: As previous i5p unit. Upper contact is possible minor fault, lower is 2cm fault, with gouge planar @ 50 degrees TCA. Strong pyrite mineralization from B1b sharply decrease in i5p. Cp is weak, in the form of diss'd medium grained clots. Anh, cal vns are ~20/1m.	CT	/		286.5	288.5	0.66	0.70	26.60	1.34					1045
								288.5	290.6	0.03	0.07	1.90	0.10					
								290.6	292.6	0.06	0.05	1.90	0.10					
								292.6	294.9	0.10	0.11	3.40	0.20					
-290	B1b			DIATREME BRECCIA: As previous breccias, but dominated by crystal fragments from 304-324m. Upper portion of interval 295-324.3m dominated by large (1-2m) scale runs of CCPp-like rock, possible bedding or textural boundaries. Beyond, 1-5mm clasts, ksp frags, angular. Apparently gradational with i5p: chill margin of i5p goes into crystal frags of breccia, no distinct contact. @299.3-299.5m: possible healed fault gouge, 1cm, 60 degrees TCA, @304-306m anh vn cuts hm, cal vns (~35 degrees TCA) which are ~5-10/1m, <1mm cal with 2mm hem selvage.	CT	/	0.02	294.9	297.0	0.48	0.80	16.70	1.24					
								297.0	299.0	0.54	0.88	22.10	1.40					

Scale 1:500

Galore Creek Project, BC, Canada 2005

20 Dec 2005



# NovaGold Resources Inc

Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 4

Lithology				Structure			Sampling and Assay						Elev. (m)				
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t		Cu Eqv %	From (m)	To (m)	Cu Eq %
310	B1b	▲+▽		DIATREME BRECCIA: As previous breccias, but dominated by crystal fragments from 304-324m. Upper portion of interval 295-324.3m dominated by large (1-2m) scale runs of CCPp-like rock, possible bedding or textural boundaries. Beyond, 1-5mm clasts, ksp frags, angular. Apparently gradational with i5p: chill margin of i5p goes into crystal frags of breccia, no distinct contact. @299.3-299.5m: possible healed fault gouge, 1cm, 60 degrees TCA, @304-306m anh vn cuts hm, cal vns (~35 degrees TCA) which are ~5-10/1m, <1mm cal with 2mm hem selvage.	FLT		0.2	299.0	301.0	0.18	0.25	7.20	0.42				1027
					VN		0.005	301.0	303.5	0.07	0.06	3.30	0.13				
320	B1b	▲+▽			JN			303.5	306.0	0.05	0.06	3.40	0.12			1018	
					VN		0.001	306.0	308.5	0.17	0.26	7.60	0.43				
330	i5	+ + +		FINE GRAINED SYENITE MEGAPORPHYRY: As previous i5p, good trachytic texture @ 40 degrees to axis. Relatively fresh rock with weak py, cp intergrown in blegs with magnetite. Patchy ksp flooding. Again lower contact may be gradational with bressia of similar composition below.	VN			308.5	311.0	0.09	0.19	5.70	0.30			1009	
					CT		0.003	311.0	313.5	0.12	0.04	3.40	0.14				
340	B1b	▲+▽		DIATREME BRECCIA: As previous interval B1b. Crystal fragments decrease downhole. Breccia texture becomes more obscure, variable. Clasts subrounded 0.5-3cm, semi matrix supported. Rock is very dark, strongly altered to bio, mag. Py is diss and also veinlets. @340-340.9m small interval of i5p, chill margins.	VN			313.5	316.0	0.04	0.04	2.00	0.08			1000	
					VN		0.002	316.0	318.5	0.03	0.06	1.60	0.09				
350	i5	+ + +		FINE GRAINED SYENITE MEGAPORPHYRY: As previous i5p, possibly intrudes along a fault? Drastic change in alteration, lithology on either side of this dyke.	CT			318.5	320.5	0.04	0.04	1.50	0.08			991	
					PA		0.002	320.5	322.6	0.11	0.02	3.10	0.12				
360	V4d	x x x	B1b?	MAFIC VOLCANICS: BRECCIAS: Dark green rock, subround clasts 1-10cm >50% of the rock. ~Uniform clast composition. Some similarities to parts of above B1b. Alteration is weak propylitic.	CT			322.6	324.7	0.07	0.06	2.40	0.12			982	
					CT		0.002	324.7	327.0	0.03	0.05	1.30	0.08				
370	V4d	x x x	B1b	MAFIC VOLCANICS: BRECCIAS: As previous moderate alteration to biotite in this case.	CT			327.0	329.3	0.02	0.06	1.00	0.08			973	
					CT		0.002	329.3	332.2	0.03	0.06	1.00	0.09				
380	i4b	□ □ □		DARK ORTHOCLASE SYENITE. Mag-hem alteration same as rock as encountered in CC04-25. 20% ksp phenos 1-2cm, euhedral, white. Some ksp frags. Rock clearly cuts surrounding breccias. Lower contact is highly irregular (soft sed slump?)	CT			332.2	335.0	0.01	0.04	1.20	0.05			964	
					CT		0.002	335.0	337.5	0.04	0.08	1.60	0.12				
390	V4d	x x x		MAFIC VOLCANIC: BRECCIAS: As previous texture. Locally more biotized. Minor cp mineralization associated hem, local strong magnetite replacements. @ 380.5-381.5m a small dyke CCPo, as previous. @ 395.7-396.90m Fault zone. Some rehealed gouge some clay gouge. Local evidence for shearing surrounds. @399.2-401.9m zone healed faulting and shearing, stretched phenos, breccia (tectonic) of i4. Moderate silicification calcite veining 20/1m.	CT			337.5	340.0	0.06	0.07	2.80	0.14			955	
					CT		0.002	340.0	342.5	0.06	0.10	2.50	0.16				
					CT			342.5	345.0	0.05	0.05	1.80	0.09				
					CT			345.0	347.0	0.09	0.06	2.30	0.14				
					CT			347.0	348.8	0.15	0.03	2.60	0.14				
					CT			348.8	351.0	0.04	0.05	1.20	0.08				
					CT			351.0	353.3	0.02	0.02	0.10	0.04				
					CT			353.3	355.6	0.04	0.02	0.10	0.05				
					CT			355.6	358.0	0.01	0.01	0.10	0.02				
					CT			358.0	360.5	0.01	0.01	0.10	0.01				
					CT			360.5	362.9	0.01	0.01	0.10	0.02				
					CT			362.9	364.9	0.01	0.02	0.10	0.03				
					CT			364.9	366.9	0.03	0.02	0.10	0.04				
					CT			366.9	369.5	0.03	0.01	0.10	0.03				
					CT			369.5	371.3	0.07	0.03	0.10	0.07				
					CT			371.3	373.0	0.02	0.02	0.10	0.03				
					CT			373.0	374.5	0.03	0.02	0.10	0.04				
					CT			374.5	377.0	0.01	0.01	0.10	0.02				
					CT			377.0	379.0	0.01	0.01	0.10	0.01				
					CT			379.0	381.5	0.02	0.01	0.20	0.03				
					CT			381.5	384.0	0.02	0.02	0.10	0.03				
					CT			384.0	386.5	0.07	0.02	0.10	0.06				
					CT			386.5	389.0	0.03	0.02	0.10	0.04				
					CT			389.0	391.5	0.03	0.03	1.50	0.06				
					CT			391.5	394.0	0.04	0.03	0.60	0.06				
					FLT		1	394.0	396.5	50.60	0.33	71.60	31.72				
					FLT			396.5	399.2	0.70	0.03	1.10	0.46				

Scale 1:500

Galore Creek Project, BC, Canada 2005

20 Dec 2005





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Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 5

Lithology				Structure			Sampling and Assay											
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)	Cu Eq %	Elev. (m)	
-410 -420 -430 -440	V4d			MAFIC VOLCANIC: BRECCIAS: As previous texture. Locally more biotized. Minor cp mineralization associated hem, local strong magnetite replacements. @ 380.5-381.5m a small dyke CCPo, as previous. @ 395.7-396.90m Fault zone. Some rehealed gouge some clay gouge. Local evidence for shearing surrounds. @399.2-401.9m zone healed faulting and shearing, stretched phenos, breccia (tectonic) of i4. Moderate silicification calcite veining 20/1m.	CT		0.05	396.5	399.2	0.70	0.03	1.10	0.46				937 928 918 909 900 891 882 873 864	
					FLT		0.01	399.2	401.9	2.79	0.05	7.40	1.81					
					FLT		0.02	401.9	404.5	0.13	0.01	0.10	0.09					
		i4b			DARK ORTHOCLASE SYENITE: As previous. Groundmass altered to almost exclusively ksp and hem. Occasional zones of slight shearing parallel to other faults. Lower contact is chilled margin, upper is probably faulted.				404.5	407.0	0.14	0.01	0.10	0.09				
									407.0	409.5	0.01	0.01	0.10	0.02				
						CT			409.5	412.0	0.04	0.01	0.10	0.04				
									412.0	414.5	0.02	0.01	0.10	0.02				
									414.5	416.8	0.03	0.01	0.10	0.02				
		V4d			MAFIC VOLCANICS: BRECCIAS: As previous V4d. Strongly calcareous, poss secondary biotite.				416.8	419.5	0.02	0.02	0.10	0.03				
									419.5	422.0	0.03	0.00	0.10	0.02				
						CT		0.15	422.0	424.5	0.01	0.01	0.10	0.01				
									424.5	426.5	0.09	0.02	0.10	0.08				
								426.5	428.7	0.02	0.04	0.10	0.05					
	V5f			INTERMEDIATE FINE LAPILLI TUFF: 10% subrounded fragments 0.5-1cm, include mafic volcanics. Fine grained felsic intrusives, rare orthoclase frags and possible pseudoleucite 1-3mm. @429-432m strong hem alteration as replacement patches and vein selvages. @432.8-433.2m i5p dykelet, chilled margins. @433.2-434.7m Mafic dyke (or flow??). @441.3-EOH mafic dyke. Note: Faults through this zone are thought to be strants of the Doghouse Fault. Angles are consistant with this. Gypsum slicks on some surfaces suggest a dominantly strike-slip motion.				428.7	431.5	0.07	0.01	0.10	0.05					
								431.5	434.0	0.02	0.03	0.10	0.04					
								434.0	436.5	0.01	0.04	0.10	0.04					
								436.5	439.0	0.01	0.03	0.10	0.03					
								439.0	441.7	0.02	0.01	0.10	0.02					

Scale 1:500

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Project: Galore Creek

Sheet No.: 1

Scale (m)	Lithology			Alteration										Mineralization							Assays					Composites			Elev. (m)		
	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)		To (m)	Cu Eqv %
	OVB																														
	i5																						5.8	8.8	0.41	0.05	0.50	0.30			
10																						8.8	11.9	0.23	0.04	0.80	0.19				1299
																						11.9	14.9	0.08	0.04	1.10	0.11				
																						14.9	18.0	0.06	0.03	0.70	0.07				
20																						18.0	21.1	0.15	0.04	0.90	0.14				1290
																						21.1	24.1	0.26	0.05	1.20	0.22				
																						24.1	27.1	0.68	0.05	1.60	0.47				
30																						27.1	30.2	0.07	0.07	1.20	0.12				1281
																						30.2	33.2	0.05	0.07	1.40	0.12				
																						33.2	36.3	0.03	0.06	1.40	0.09				
40	V2f																					36.3	39.3	0.03	0.09	1.40	0.12				
																						39.3	42.4	0.02	0.07	1.30	0.09				1272
																						42.4	45.4	0.01	0.03	0.60	0.04				
																						45.4	48.5	0.03	0.05	0.80	0.08				
50																						48.5	51.5	0.03	0.05	0.90	0.07				1263
																						51.5	54.6	0.01	0.02	0.50	0.03				
																						54.6	57.6	0.01	0.03	0.70	0.04				
60																						57.6	60.7	0.01	0.06	1.20	0.08				1254
																						60.7	63.7	0.01	0.03	0.90	0.05				
																						63.7	66.8	0.01	0.03	0.70	0.04				
70																						66.8	69.8	0.01	0.01	0.60	0.02				1245
																						69.8	72.8	0.01	0.03	0.70	0.05				
																						72.8	75.9	0.01	0.02	0.50	0.03				
80	V3h																					75.9	78.9	0.02	0.03	0.70	0.05				1236
																						78.9	82.0	0.01	0.02	0.60	0.03				
																						82.0	85.0	0.01	0.01	0.40	0.02				
90																						85.0	87.1	0.04	0.07	1.00	0.11				
																						87.1	89.1	0.01	0.02	0.40	0.03				1227
																						89.1	91.1	0.02	0.02	0.10	0.03				
																						91.1	94.2	0.01	0.01	0.30	0.01				
100	i5																					94.2	97.2	0.01	0.00	0.30	0.01				
																						97.2	100.3	0.01	0.01	0.50	0.02				1218
																						100.3	103.3	0.01	0.01	0.40	0.02				

Scale 1:500

Galore Creek Project, BC, Canada

20 Dec 2005



# NovaGold Resources Inc

Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger: E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 2

Scale (m)	Lithology			Alteration										Mineralization							Assays					Composites			Elev. (m)			
	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)		To (m)	Cu Eqv %	
110	i5				1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	0.1	0.2	0.4	0.5	0.5	103.3	106.4	0.01	0.01	0.40	0.02				1209
																						106.4	108.0	0.11	0.14	3.30	0.23				1199	
																						108.0	110.1	0.06	0.07	1.50	0.12				1190	
	V3h	B1b																				110.1	112.5	0.02	0.05	1.10	0.07					
																						112.5	115.5	0.06	0.08	1.70	0.13					
																						115.5	118.6	0.09	0.15	3.50	0.24					
																						118.6	121.6	0.09	0.13	3.20	0.22					
																						121.6	124.7	0.35	0.45	11.00	0.76					
																						124.7	127.7	0.05	0.08	2.20	0.13					
																						127.7	130.8	0.04	0.17	2.60	0.21					
																						130.8	133.8	0.07	0.12	3.20	0.19					
																						133.8	136.9	0.07	0.11	2.70	0.18					
																						136.9	139.9	0.01	0.00	0.40	0.01					
																						139.9	142.9	0.01	0.02	0.40	0.03					
																						142.9	146.0	0.01	0.01	0.40	0.03					
	i5	i5p																				146.0	149.1	0.03	0.04	1.00	0.07					
																						149.1	152.1	0.01	0.03	0.80	0.04					
																						152.1	153.6	0.00	0.02	0.90	0.03					
																						154.9	156.6	0.01	0.02	1.60	0.04					
																						156.6	160.1	0.03	0.07	1.50	0.10					
																						162.2	165.0	0.03	0.05	1.30	0.08					
																						165.0	167.5	0.02	0.06	1.30	0.08					
	V2e																					167.5	170.0	0.01	0.04	0.70	0.05					
																						170.0	172.5	0.02	0.06	1.30	0.08					
																						172.5	175.0	0.03	0.05	1.10	0.07					
																						175.0	177.5	0.01	0.04	0.90	0.06					
																						177.5	180.0	0.06	0.06	2.60	0.12					
																						180.0	182.2	0.06	0.14	3.40	0.20					
																						182.2	185.0	0.06	0.14	3.80	0.21					
																						185.0	187.5	0.02	0.06	1.70	0.09					
																						187.5	190.0	0.13	0.18	6.20	0.31					
	B1b	V2e?																				190.0	192.5	0.15	0.18	4.60	0.32					
																						192.5	195.0	0.07	0.13	2.70	0.20					
																						195.0	197.0	0.08	0.11	1.80	0.17					
																						197.0	198.8	0.08	0.12	2.10	0.19					
																						198.8	201.0	0.02	0.01	0.50	0.03					
	D3				1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	0.5	1	1	10	0.5	0.5	0.5	201.0	203.5	0.04	0.04	1.30	0.07				1127
																						203.5	206.0	0.02	0.01	0.40	0.02					
																						206.0	208.5	0.04	0.06	1.80	0.10					

Scale 1:500

Galore Creek Project, BC, Canada

20 Dec 2005







# NovaGold Resources Inc

Azimuth: 260

Dip: -65 Depth (m): 444.70

Logger: E. Twelker

DDH No.: CC05-0030

UTM N: 6333251.007

UTM E: 357953.987

Project: Galore Creek

Sheet No.: 5

Scale (m)	Lithology		Alteration											Mineralization							Assays					Composites			Elev. (m)			
	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)		To (m)	Cu Eqv %	
420	i4b				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	414.5	416.8	0.03	0.01	0.10	0.02				928	
	V4d				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	416.8	419.5	0.02	0.02	0.10	0.03					
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	419.5	422.0	0.03	0.00	0.10	0.02					
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	422.0	424.5	0.01	0.01	0.10	0.01					
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	424.5	426.5	0.09	0.02	0.10	0.08					
430	V5f				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	426.5	428.7	0.02	0.04	0.10	0.05				918	
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	428.7	431.5	0.07	0.01	0.10	0.05					
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	431.5	434.0	0.02	0.03	0.10	0.04					
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	434.0	436.5	0.01	0.04	0.10	0.04					
440					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	436.5	439.0	0.01	0.03	0.10	0.03					
					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	439.0	441.7	0.02	0.01	0.10	0.02					909
450																																900
460																																891
470																																882
480																																873
490																																864
500																																855
510																																846

Scale 1:500

Galore Creek Project, BC, Canada

20 Dec 2005



# NovaGold Resources Inc

Azimuth: 135

Dip: -65 Depth (m): 287.80

Logger M.Roberts

DDH No.: CC05-0031

UTM N: 6332857.415

UTM E: 357922.023

Project: Galore Creek

Sheet No.: 1

Lithology				Structure			Sampling and Assay						Elev. (m)				
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t		Cu Eqv %	From (m)	To (m)	Cu Eq %
10	OVB			OVERBURDEN													1205
20								21.1	24.1	0.45	0.53	3.20	0.84				1196
30								24.1	27.1	0.04	0.05	0.70	0.08				
								27.1	30.2	0.03	0.03	0.20	0.04				1187
								30.2	31.7	0.02	0.03	0.30	0.04				
								31.7	34.8	0.03	0.02	0.20	0.03				
					FR			34.8	36.3	0.36	0.01	0.70	0.23				
								36.3	39.0	2.26	0.07	1.10	1.45				
40					VN		0.003	39.0	41.5	0.14	0.10	1.20	0.20				1178
					VN		0.005	41.5	44.0	0.03	0.13	0.30	0.14				
								44.0	46.5	0.02	0.04	0.10	0.05				
								46.5	49.0	0.02	0.04	0.20	0.05				
50	B			<p>BRECCIA: Variable altered matrix supported heterolithic breccia. Rock fragments (generally f.g. highly altered, lithologies unknown) form 5-20% of unit, subangular to rounded, 0.5-5cm, rarely larger. Matrix is fine to medium grained, composed primarily of 0.5-2mm ksp crystals and variably altered mafics, often shows interlocking textures; also contains pseudoleucite crystals (2-4mm, 5-10%) throughout, often ksp alt or carbonate alt. Possibly CCe matrix, orthomagmatic breccia? Overall, unit has strong ksp flooding with variable amounts of spotty or dissem mag/hem, f.g. biotite alt (often chl alt), and slight sericitization of feldspars. Dissem py throughout; earthy + spec hem.</p> <p>@21.10-36.27m; Highly weathered friable orange-brown rock. Small competent intervals show ksp-mag, hem altered breccia. Mal + chalcopyrite on fracture surfaces in top 3m of bedrock. @36.27-41m; More competent interval, bleached with small clay altered zones, fracture controlled weathering. @41-49m; Strong ksp alteration with increased mag + hem. 10-30cm intervals show packed 3mm ksp alt pseudoleucite crystal in mag/hem matrix, assoc. with trace dissem cp (possible CCPp clasts?). Weathering along fractured surfaced. @49-66.5m; Ghosted highly altered clasts (5%) in f.g. ksp alt interval with dissem.-chl-hem- py- carb. Metre-wide-zones of c.g. orange ksp-chl alt w/hem fracture infill. Interval is more massive looking with fewer clasts than surrounding intervals. @66.5- 89m; Increased f.g. dissem bio-chl-py alteration. Ghosted clasts in breccia. @88.57- 89m; Bleached annealed fault zone, or-chl alt rock fragments, brittle fractures w/cal-or +/- qtz -py infill. Ref sample @82m.</p>	JN			49.0	51.5	0.01	0.01	0.10	0.02	0.0	287.8	0.00	1169
								51.5	54.0	0.01	0.01	0.10	0.02				
								54.0	56.5	0.01	0.01	0.10	0.02				
								56.5	59.0	0.01	0.02	0.10	0.03				
60					VN		0.002	59.0	61.5	0.01	0.02	0.10	0.03				1160
					FLT		0.05	61.5	64.0	0.02	0.03	0.10	0.04				
								64.0	66.5	0.01	0.03	0.10	0.04				
								66.5	69.0	0.01	0.03	0.10	0.04				
70					JN			69.0	71.5	0.01	0.02	0.10	0.02				1151
								71.5	74.0	0.01	0.01	0.10	0.01				
								74.0	76.5	0.01	0.03	0.10	0.04				
								76.5	79.0	0.03	0.05	0.10	0.07				
80								79.0	81.5	0.01	0.02	0.10	0.03				1142
								81.5	84.0	0.01	0.02	0.10	0.03				
								84.0	86.5	0.04	0.03	0.10	0.06				
90	CCPe			<p>COPPER CANYON PORPHYRY-EQUIGRANULAR?: Massive unit of subhedral, stubby to acicular white ksp (?) crystals (50%, 1-3mm) set in f.g. matrix of interlocking pink ksp (30%), bio (15%), cubic pyrite (5%, 1-2mm) and minor interstitial calcite. Reference sample @93.5m.</p>	VN		0.003	86.5	89.0	0.09	0.04	0.50	0.10				1133
					FLT		0.43	89.0	91.8	0.07	0.05	0.70	0.10				
					CT			91.8	94.8	0.10	0.01	0.30	0.07				
	B			<p>BRECCIA: Strongly ksp-chl alt breccia, with ghosted subrounded f.g. clasts (generally finer grained than matrix, more bio-chl rich). Clasts larger here than in breccia above (1-10cm, 10-15%). Small intervals of c.g. salmon pink ksp alt/veining, sometimes assoc with fluorite and v.f.g py. Breccia matrix enigmatic @106.1m; small gouge seam in larger or-py- hem annealed fault (~8cm wide).</p>	CT			94.8	97.2	0.10	0.02	0.50	0.08				
								97.2	100.3	0.11	0.03	0.50	0.09				



# NovaGold Resources Inc

Azimuth: 135

Dip: -65 Depth (m): 287.80

Logger M.Roberts

DDH No.: CC05-0031

UTM N: 6332857.415

UTM E: 357922.023

Project: Galore Creek

Sheet No.: 2

Lithology				Structure			Sampling and Assay																		
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)	Cu Eq %	Elev. (m)								
-110	B	[Yellow]		BRECCIA: Strongly ksp-chl alt breccia, with ghosted subrounded f.g. clasts (generally finer grained than matrix, more bio-chl rich). Clasts larger here than in breccia above (1-10cm, 10-15%). Small intervals of c.g. salmon pink ksp alt/veining, sometimes assoc with fluorite and v.f.g py. Breccia matrix enigmatic @106.1m; small gouge seam in larger or-py- hem annealed fault (~8cm wide).	FLT		0.04	100.3	103.3	0.11	0.04	0.70	0.11	0.0	287.8	0.00		1115							
-120	CCPp	[Pink]		COPPER CANYON PORPHYRY- PSEUDOLEUCITE DOMINANT: Friable sandy ksp-chl-hem alt pseudoleucite throughout (3-5mm, locally to 50%). Patchy bio alt. Dissem f.g. py. Possibly still breccia with fewer, smaller, less evident clasts, or probably a CCPp intrusion with minor f.g. zenoliths?	FLT		0.04	103.3	106.4	0.10	0.03	0.50	0.09									1106			
-130 -140	B3b	[Yellow]	CCPp	ORTHOMAGMATIC BRECCIA- HETEROLITHIC (CCPp): As breccia above, average clast size 3-5cm. Subrounded rock fragments included f.g. or-chl-py clasts, c.g. pink ksp + ser alt feldspar + spotty hem (possible relic pseudoleucites), and f.g. pink ksp clasts. Matrix is predominantly f.g. white or with minor clay+chl+spotty hem+ fluorite, contains possible sparse ksp alt pseudoleucite crystals and feldspar crystals. Dissem py throughout, clasts often more pyrite rich than matrix. Reference sample @127.6m Trace cp assoc. with c.g. pink ksp-py- trace fluorite veining.	CT			106.4	109.4	0.13	0.04	0.60	0.13									1097			
-150 -160 -170	CCPp	[Pink]		COPPER CANYON PORPHYRY- PSEUDOLEUCITE DOMINANT: Massive intrusive unit contains 50%, 3-5mm pseudoleucites crystals and 5% 2-4mm feldspar crystals. Dissem cubic+granular py throughout. Variably altered f.g. matrix. @144-152m; Strong ksp alt of pseudoleucites, matrix of f.g. ksp- chl- bio cal. @152-161m; Pseudoleucite crystals ksp alt, matrix is f.g. ksp-chl-hem-car-anh altered. @161-171.1m; ksp flooded, pseudoleucite + feldspar crystals slightly chl or hem alt. Patchy m.g. epidote alteration, often assoc. with bio alt and py.				109.4	112.5	0.10	0.05	0.80	0.11									1088			
-180	B3b	[Yellow]	CCPp	ORTHOMAGMATIC BRECCIA (CCPp): Very disrupted interval; begins with 0.5m i4(?)interval, then continues through very friable + broken rock. Some breccia textures in areas, may contains clasts(?) /matrix(?) of CCPp . Variably strongly ksp-chl-bio-epidote- cal altered, also clay altered. @177-178m clay altered friable to gouge fault zone, epidote alteration seems centred around fault zone.	FZN		0.5	112.5	115.5	0.05	0.03	0.50	0.07					1079							
-190	CCPp	[Pink]		COPPER CANYON PORPHYRY- PSEUDOLEUCITE DOMINANT: Same as above, massive but also brecciated in places, but most clasts appear to be CCPp (auto brecciated?) in CCPp matrix. Pervasive ksp-bio-py alteration, patchy pink ksp alt. Ref. sample @191.6m. Pervasive fracture cleavage w/anh infill in stick rock.				115.5	118.6	0.01	0.01	0.10	0.02					1069							
-190	B3b	[Yellow]	CCPp	ORTHOMAGMATIC BRECCIA- HETEROLITHIC (CCPp): Gradational contact from massive+ monolithic brecciated CCPp into heterolithic breccia unit. Fragments in breccia range from 0.5cm up to 15cm, subrounded, from 20-50% of rock; lithologies included pseudoleucite packed in f.g. matrix (CCPp?), ksp porphyry (ksp crystals, acicular to tabular, 5-10mm, 15% in m.g. or-bio matrix), f.g. or altered clasts, bio alt clasts, possible argillite clast? Matrix composed of rounded rock fragments f.g. or-bio-chl +/- hem, ksp crystal fragments (1-3mm) to euhedral ksp crystal (2-5mm, 2-10%). Dissem cubic and patchy py throughout. Trace dissem cp. Ref. sample @195.3m. Fracture cleavage w/anh infill throughout, and anh-hem +/- bio-epi veining. Unit could be highly altered orthomagmatic breccia with heterolithic clasts and CCPp matrix.	FCL			118.6	121.6	0.01	0.01	0.10	0.02					1060							





# NovaGold Resources Inc

Azimuth: 135

Dip: -65 Depth (m): 287.80

Logger M.Roberts

DDH No.: CC05-0031

UTM N: 6332857.415

UTM E: 357922.023

Project: Galore Creek

Sheet No.: 3

Lithology				Structure			Sampling and Assay											
Scale (m)	Rock Code	Rock Type	Mod1	Description	Type	Alpha	Width (m)	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)	Cu Eq %	Elev. (m)	
-210	B3b	CCPo		ORTHOMAGMATIC BRECCIA- HETEROLITHIC (CCPp): Gradational contact from massive+ monolithic brecciated CCPp into heterolithic breccia unit. Fragments in breccia range from 0.5cm up to 15cm, subrounded, from 20-50% of rock; lithologies included pseudoleucite packed in f.g. matrix (CCPp?), ksp porphyry (ksp crystals, acicular to tabular, 5-10mm, 15% in m.g. or-bio matrix), f.g. or altered clasts, bio alt clasts, possible argillite clast? Matrix composed of rounded rock fragments f.g. or-bio-chl +/- hem, ksp crystal fragments (1-3mm) to euhedral ksp crystal (2-5mm, 2-10%). Dissem cubic and patchy py throughout. Trace dissem cp. Ref. sample @195.3m. Fracture cleavage w/anh infill throughout, and anh-hem +/- bio-epi veining. Unit could be highly altered orthomagmatic breccia with heterolithic clasts and CCPp matrix.	VN	10 20 30 40 50 60 80 88	0.006	198.0	200.6	0.01	0.01	0.10	0.01	0.0	287.8	0.00		1024
						200.6	203.0	0.01	0.02	0.10	0.02							
						203.0	205.5	0.01	0.01	0.10	0.02							
						205.5	208.0	0.02	0.03	0.30	0.04							
						208.0	210.5	0.01	0.04	0.10	0.05							
						210.5	213.0	0.02	0.03	0.20	0.04							
						213.0	215.5	0.02	0.03	0.30	0.04							
	-220	CCPp		COPPER CANYON PORPHYRY- PSEUDOLEUCITE DOMINANT: Massive intrusive unit consists of feldspar phenocrysts (sub- to anhedral or(?) crystals, 2-4mm, ghosted, 50%; acicular or crystals 4-8mm, 5%; rare subhedral or crystals, acicular, 7-15mm), octagonal biotite books (1-2mm, look primarily, 3%), rounded ksp crystals (ksp alt pseudoleucite?, <5%, 1-3mm), in f.g. pink ksp, bio-chl-anh matrix. Patchy/spotty epi alteration often associated with granular py patches. Dissem spotty py. Anh infill in fractures. Ref. sample @225m. Unit intrudes into breccia. Fairly sharp contact, much less altered, no clasts/zenoliths, increased porphyritic clasts.	VN		0.025	218.2	220.9	0.02	0.04	0.20	0.05					
					CT			220.9	223.3	0.01	0.02	0.30	0.03					
					VN		0.014	223.3	225.9	0.01	0.02	0.20	0.03					
	-230	CCPp	B3b	COPPER CANYON PORPHYRY- PSEUDOLEUCITE DOMINANT: Very similar to breccia above, but fewer clasts and matrix is more pseudoleucite rich. More massive unit with zenoliths, increased porphyritic clasts.	CT			225.9	228.5	0.01	0.01	0.10	0.02					
								228.5	231.3	0.01	0.02	0.10	0.03					
								231.3	234.4	0.01	0.03	0.20	0.04					
								234.4	237.4	0.01	0.03	0.20	0.04					
							237.4	240.5	0.01	0.03	0.20	0.04						
							240.5	243.5	0.01	0.03	0.30	0.04						
							243.5	246.0	0.01	0.03	0.40	0.04						
-240	i9b		ORTHOCLASE SYENITE MEGAPORPHYRY: Ksp crystals (10%, tabular to acicular, 5-15mm, euhedral; 5% tabular 2-4cm, euhedral) and plag (30%, ghosted subhedral, 2-6mm) in f.g. ksp-anh-chl matrix. Dissem mag/hem and py, spotty epi alt. Patchy ksp+hem+bio alteration floods matrix, ghosts plag crystals. Cal-epi infill on fractures.	CT			246.0	249.2	0.02	0.03	0.80	0.05						
							249.2	252.0	0.01	0.01	0.20	0.02						
							252.0	254.5	0.00	0.01	0.10	0.01						
							254.5	257.0	0.01	0.01	0.10	0.01						
							257.0	259.5	0.01	0.01	0.10	0.01						
							259.5	262.0	0.01	0.01	0.10	0.01						
							262.0	264.2	0.01	0.02	0.20	0.03						
-250	B		BRECCIA: Unit differs from CCPp/B3b unit above. Clast lithologies similar, but average clast size reduced (generally <2cm), reduced CCPp clast population and increased f.g. clasts (volcanics?). Matrix consists of ksp crystal fragments (5-10%, generally <3mm) and rare pseudoleucite crystals in highly altered v.f.g ksp-chl-epi-anh-mag matrix. --->milled+ altered CCPp+rock flour? May represent phreato-magmatic breccia marginal to CCPp orthomagmatic breccia/intrusions above. Reference sample @282.45m. Last 55cm of hole v. oxidized. Hole ended due to drilling problems, probably in fault zone at end of hole.	CT			264.2	266.4	0.01	0.01	0.10	0.02						
							266.4	269.0	0.01	0.02	0.10	0.02						
							269.0	271.5	0.01	0.02	0.10	0.03						
				VN		0.004	271.5	274.0	0.05	0.02	0.20	0.05						
							274.0	276.5	0.04	0.02	0.30	0.05						
							276.5	279.0	0.02	0.02	0.10	0.03						
							279.0	281.5	0.02	0.02	0.30	0.04						
-260							284.0	286.0	0.02	0.02	0.20	0.04						
							286.0	287.8	0.02	0.02	0.20	0.03						
-270																	970	
-280																		961
-290																		952

Scale 1:500

Galore Creek Project, BC, Canada 2005

20 Dec 2005



Lithology		Alteration												Mineralization							Assays					Composites			Elev. (m)				
Scale (m)	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)	To (m)	Cu Eqv %	Elev. (m)		
10	OVB	(diagram)			1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	5.0 1 5.1	1 2 3 4	0.1 0.2 0.3 0.4	5.0 1 5.1	5.0 1 5.1	5.0 1 5.1											1205	
20	B	(diagram)			1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	5.0 1 5.1	1 2 3 4	0.1 0.2 0.3 0.4	5.0 1 5.1	5.0 1 5.1	5.0 1 5.1	21.1	24.1	0.45	0.53	3.20	0.84				1196		
																							24.1	27.1	0.04	0.05	0.70	0.08					
																							27.1	30.2	0.03	0.03	0.20	0.04					
																							30.2	31.7	0.02	0.03	0.30	0.04					
																							31.7	34.8	0.03	0.02	0.20	0.03					
																							34.8	36.3	0.36	0.01	0.70	0.23					
																							36.3	39.0	2.26	0.07	1.10	1.45					
																							39.0	41.5	0.14	0.10	1.20	0.20					
																							41.5	44.0	0.03	0.13	0.30	0.14					
																							44.0	46.5	0.02	0.04	0.10	0.05					
																							46.5	49.0	0.02	0.04	0.20	0.05					
																							49.0	51.5	0.01	0.01	0.10	0.02	0.0	287.8	0.00		
																							51.5	54.0	0.01	0.01	0.10	0.02					
																							54.0	56.5	0.01	0.01	0.10	0.02					
																							56.5	59.0	0.01	0.02	0.10	0.03					
																							59.0	61.5	0.01	0.02	0.10	0.03					
																							61.5	64.0	0.02	0.03	0.10	0.04					
																							64.0	66.5	0.01	0.03	0.10	0.04					
																							66.5	69.0	0.01	0.03	0.10	0.04					
																					69.0	71.5	0.01	0.02	0.10	0.02							
																					71.5	74.0	0.01	0.01	0.10	0.01							
																					74.0	76.5	0.01	0.03	0.10	0.04							
																					76.5	79.0	0.03	0.05	0.10	0.07							
																					79.0	81.5	0.01	0.02	0.10	0.03							
																					81.5	84.0	0.01	0.02	0.10	0.03							
																					84.0	86.5	0.04	0.03	0.10	0.06							
																					86.5	89.0	0.09	0.04	0.50	0.10							
	CCPe	(diagram)			1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	89.0	91.8	0.07	0.05	0.70	0.10				1133		
					1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	91.8	94.8	0.10	0.01	0.30	0.07						
					1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	94.8	97.2	0.10	0.02	0.50	0.08						
					1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	97.2	100.3	0.11	0.03	0.50	0.09						
					1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	100.3	103.3	0.11	0.04	0.70	0.11				1124		

Scale 1:500

Galore Creek Project, BC, Canada

20 Dec 2005





# NovaGold Resources Inc

Azimuth: 135

Dip: -65 Depth (m): 287.80

Logger: M.Roberts

DDH No.: CC05-0031

UTM N: 6332857.415

UTM E: 357922.023

Project: Galore Creek

Sheet No.: 3

Scale (m)	Lithology			Alteration										Mineralization							Assays					Composites			Elev. (m)			
	Rock Code	Rock Type	Mod1	Mod2	Or	Bio	Chl	Epi	Gar	Car	Anh	Gyp	Ser	Diop	Cpy	Bn	Py	Mag Supc	Spec	Hem	Lim	From (m)	To (m)	Au g/t	Cu %	Ag g/t	Cu Eqv %	From (m)		To (m)	Cu Eqv %	
210	B3b	CCPo			1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3 4	0.5 1 1.5	1 2 3 4	10 20 30 40	0.5 1 1.5	0.5 1 1.5	0.5 1 1.5	205.5	208.0	0.02	0.03	0.30	0.04				1024	
208.0																						210.5	0.01	0.04	0.10	0.05						
210.5																						210.5	213.0	0.02	0.03	0.20	0.04					
213.0																						213.0	215.5	0.02	0.03	0.30	0.04					
215.5																						215.5	218.2	0.02	0.03	0.30	0.04					
218.2																						218.2	220.9	0.02	0.04	0.20	0.05					
220.9																						220.9	223.3	0.01	0.02	0.30	0.03					
223.3	CCPp																					223.3	225.9	0.01	0.02	0.20	0.03					
225.9																						225.9	228.5	0.01	0.01	0.10	0.02					
228.5																						228.5	231.3	0.01	0.02	0.10	0.03					
231.3																						231.3	234.4	0.01	0.03	0.20	0.04					
234.4																						234.4	237.4	0.01	0.03	0.20	0.04					
237.4																						237.4	240.5	0.01	0.03	0.20	0.04					
240.5																						240.5	243.5	0.01	0.03	0.30	0.04					
243.5																						243.5	246.0	0.01	0.03	0.40	0.04					
246.0																						246.0	249.2	0.02	0.03	0.80	0.05	0.0	287.8	0.00		
249.2																						249.2	252.0	0.01	0.01	0.20	0.02					
252.0																						252.0	254.5	0.00	0.01	0.10	0.01					
254.5																						254.5	257.0	0.01	0.01	0.10	0.01					
257.0																						257.0	259.5	0.01	0.01	0.10	0.01					
259.5																						259.5	262.0	0.01	0.01	0.10	0.01					
262.0																						262.0	264.2	0.01	0.02	0.20	0.03					
264.2																						264.2	266.4	0.01	0.01	0.10	0.02					
266.4																						266.4	269.0	0.01	0.02	0.10	0.02					
269.0																						269.0	271.5	0.01	0.02	0.10	0.03					
271.5																						271.5	274.0	0.05	0.02	0.20	0.05					
274.0																						274.0	276.5	0.04	0.02	0.30	0.05					
276.5																						276.5	279.0	0.02	0.02	0.10	0.03					
279.0																						279.0	281.5	0.02	0.02	0.30	0.04					
284.0																						284.0	286.0	0.02	0.02	0.20	0.04					
286.0																						286.0	287.8	0.02	0.02	0.20	0.03					
290																																952
300																																943
310																																934

Scale 1:500

Galore Creek Project, BC, Canada

20 Dec 2005

**APPENDIX VII**

**ANALYTICAL PROCEDURES**

Specifications for sampling, assaying and analysis

ALS Chemex.  
212 Brooksbank Ave  
North Vancouver, BC  
V7J 2C1 Canada

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

Sample is dried and the entire sample is crushed to better than 70% passing a 2 mm (Tyler 10 mesh) screen. A split of up to 250 grams is taken and pulverized to better than 85% passing a 75 micron (Tyler 200 mesh) screen.

<b>ALS Chemex 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.

Fire Assay Procedure – Au-AA23 and Au-AA24:

Fire Assay Fusion, AAS Finish  
Sample Decomposition: Fire Assay Fusion  
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.

<b>ALS Chemex Method Code</b>	<b>Element</b>	<b>Symbol</b>	<b>Sample Weight</b>	<b>Lower Reporting Limit</b>	<b>Upper Reporting Limit</b>	<b>Units</b>
Au-AA23	Gold	Au	30 g	0.005	10.0	ppm
Au-AA24	Gold	Au	50g	0.005	10.0	ppm

Geochemical Procedure - ME-ICP41:

Trace Level Methods Using Conventional ICP-AES Analysis

Sample Decomposition: Nitric Aqua Regia Digestion

Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.50 grams) is digested with aqua regia for at least one hour in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 ml with demineralized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

<b>Element</b>	<b>Symbol</b>	<b>Detection Limit</b>	<b>Upper Limit</b>	<b>Units</b>
Aluminum*	Al	0.01	15	%
Antimony	Sb	2	10,000	ppm
Arsenic	As	2	10,000	ppm
Barium*	Ba	10	10,000	ppm
Beryllium*	Be	0.5	100	ppm
Bismuth	Bi	2	10,000	ppm
Boron*	B	10	10,000 ppm	ppm
Cadmium	Cd	0.5	500	ppm
Calcium*	Ca	0.01	15	%
Chromium*	Cr	1	10,000	ppm
Cobalt	Co	1	10,000	ppm
Copper	Cu	1	10,000	ppm
Gallium*	Ga	10	10,000	ppm
Iron	Fe	0.01	15	%
Lanthanum*	La	10	10,000	ppm
Lead	Pb	2	10,000	ppm
Magnesium*	Mg	0.01	15	%
Manganese	Mn	5	10,000	ppm
Mercury	Hg	1	10,000	ppm
Molybdenum	Mo	1	10,000	ppm

Geochemical Procedure - ME-ICP41:

Trace Level Methods Using Conventional ICP-AES Analysis (*con't*)

Element	Symbol	Detection Limit	Upper Limit	Units
Nickel	Ni	1	10,000	ppm
Phosphorus	P	10	10,000	ppm
Potassium*	K	0.01	10	%
Scandium*	Sc	1	10,000	ppm
Silver	Ag	0.2	100	ppm
Sodium*	Na	0.01	10 %	%
Strontium*	Sr	1	10,000	ppm
Sulfur	S	0.01	10	%
Thallium*	Tl	10	10,000	ppm
Titanium*	Ti	0.01	10	%
Tungsten*	W	10	10,000	ppm
Uranium	U	10	10,000	ppm
Vanadium	V	1	10,000	ppm
Zinc	Zn	2	10,000	ppm

\*Elements for which the digestion is possibly incomplete.

Assay Procedure – ME-AA46:

Evaluation of Ores and High Grade Materials by Aqua Regia Digestion – AAS

Sample Decomposition: Aqua Regia Digestion

Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample (0.4 to 2.00 grams) is digested with concentrated nitric acid for one half hour. After cooling, hydrochloric acid is added to produce aqua regia and the mixture is then digested for an additional hour and a half. An ionization suppressant is added if molybdenum is to be measured. The resulting solution is diluted to volume (100 or 250 ml) with demineralized water, mixed and then analyzed by atomic absorption spectrometry against matrix-matched standards.

ALS Chemex Method Code	Element	Symbol	Detection Limit	Upper Limit	Units
As-AA46	Arsenic	As	0.01	30	%
Bi-AA46	Bismuth	Bi	0.001	30	%
Cd-AA46	Cadmium	Cd	0.001	10	%
Co-AA46	Cobalt	Co	0.01	50	%
Cu-AA46	Copper	Cu	0.01	50	%



Fe-AA46	Iron	Fe	0.01	30	%
Pb-AA46	Lead	Pb	0.01	30	%
Mo-AA46	Molybdenum	Mo	0.001	10	%
Mn-AA46	Manganese	Mn	0.01	50	%
Ni-AA46	Nickel	Ni	0.01	50	%
Ag-AA46	Silver	Ag	1	1500	ppm
Zn-AA46	Zinc	Zn	0.01	30	%

Fire Assay Procedure – Ag-GRA21, Ag-GRA22, Au-GRA21 & Au-GRA22:

Precious Metals Gravimetric Analysis Methods

Sample Decomposition: Fire Assay Fusion

Analytical Method: Gravimetric

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

Method Code	Element	Sample Weight	Lower Reporting Limit	Upper Reporting Limit	Units
Ag-GRA21	Silver	30 grams	5	10,000	ppm
Ag-GRA22	Silver	50 grams	5	10,000	ppm
Au-GRA21	Gold	30 grams	0.05	1000	ppm
Au-GRA22	Gold	50 grams	0.05	1000	ppm

Quality control procedures during sample preparation and analysis:

ALS Chemex laboratories in North America are registered to ISO 9001:2000 for the “provision of assay and geochemical analytical services” by QMI Management Systems Registrars. In addition to ISO 9001:2000 registration, ALS Chemex has successfully completed the audit required for accreditation to ISO 17025 under CAN-P-1579 “Guidelines for Accreditation of Mineral Analysis Testing Laboratories”, and is in the final stages of completing the accreditation process. CAN-P-1579 is the Amplification and Interpretation of CAN-P-4

“General Requirements for the Accreditation of Calibration and Testing Laboratories” (Standards Council of Canada ISO/IEC Guide 25:1997(E)). The scope of accreditation includes the following methods offered by ALS Chemex:

- Au by Fire Assay/AAS
- Au and Ag by Fire Assay/Gravimetric
- Au, Pt & Pd by Fire Assay/ICP
- Cu, Ni & Co by Sodium Peroxide Fusion/ICP
- Co & Ni by 4-Acid Digestion/AAS
- Ag, Cu, Pb & Zn by Aqua Regia Digestion/AAS
- Multi-Element package by Aqua Regia Digestion/ICP

The ISO 9001:2000 registration provides evidence of a quality management system covering all aspects of our organization. ISO 17025 accreditation provides specific assessment of the laboratory’s analytical capabilities. The combination of the two ISO standards provides complete assurance regarding the quality of every aspect of ALS Chemex operations.

Quality assurance program:

The quality function is an integral part of all day-to-day activities at ALS Chemex and involves all levels of staff. Responsibilities are formally assigned for all aspects of the quality assurance program. As well, all senior staff are expected to actively participate in the quality program through regular Quality Assurance and Technical Meetings.

Sample Preparation Quality Specifications:

Standard specifications for sample preparation are clearly defined and monitored. The specifications are as follows:

- Crushing
  - > 70% of the crushed sample passes through a 2 mm screen
- Ringing
  - > 85% of the ring pulverized sample passes through a 75 micron screen (Tyler 200 mesh)
- Samples Received as Pulps
  - >80% of the sample passes through a 75 micron screen (Tyler 200 mesh)

These characteristics are measured and results reported and logged to verify the quality of sample preparation. ALS Chemex standard operating procedures require that at least one sample per day be taken from each sample preparation

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

QC results from all sample preparation laboratories are reported to the QC department monthly. The data is combined and reported to senior management. Review of the performance of each laboratory branch takes place as part of the quarterly Quality Assurance meeting.

*Other Sample Preparation Specifications:*

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

Analytical Quality Control – Reference Materials, Blanks & Duplicates:

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

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

The laboratory staff analyses quality control samples at least at the frequency specified above. If necessary, laboratory staff may include additional quality control samples above the minimum specifications.

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

#### Quality Control Limits and Evaluation:

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

#### Certificate Approval:

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

#### Precision Specifications and Definitions:

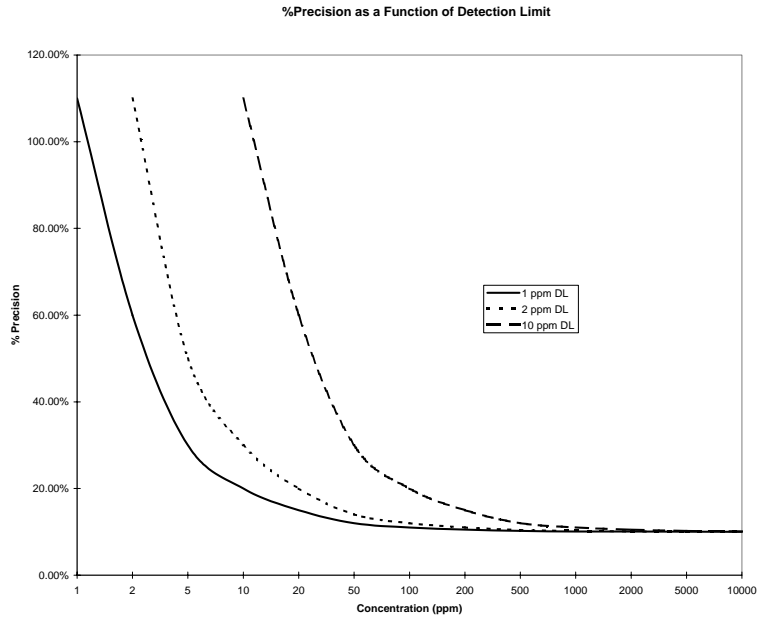
Most geochemical procedures are specified to have a precision of  $\pm 10\%$ , and assay procedures  $\pm 5\%$ . The precision of Au analyses is dominated by the sampling precision.

Precision can be expressed as a function of concentration:

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

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

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

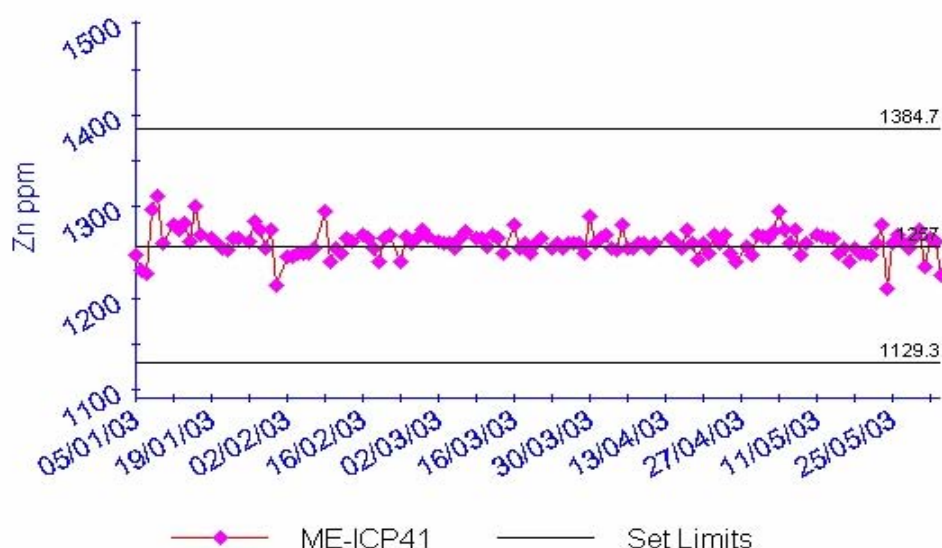


As an example, precision as a function of concentration (10% precision) is plotted for three different detection limits. The impact of detection limit on precision of results for low-level determinations can be dramatic.

#### Evaluation of Trends:

Control charts for frequently used method codes are generated and evaluated by the QA Department and distributed to Departmental managers for posting in the lab and review on a weekly basis. The control charts are evaluated to ensure internal specifications for precision and accuracy are met. The data is also reviewed for any long-term trends and drifts.

Control Chart for G2000, ME-ICP41, Zn

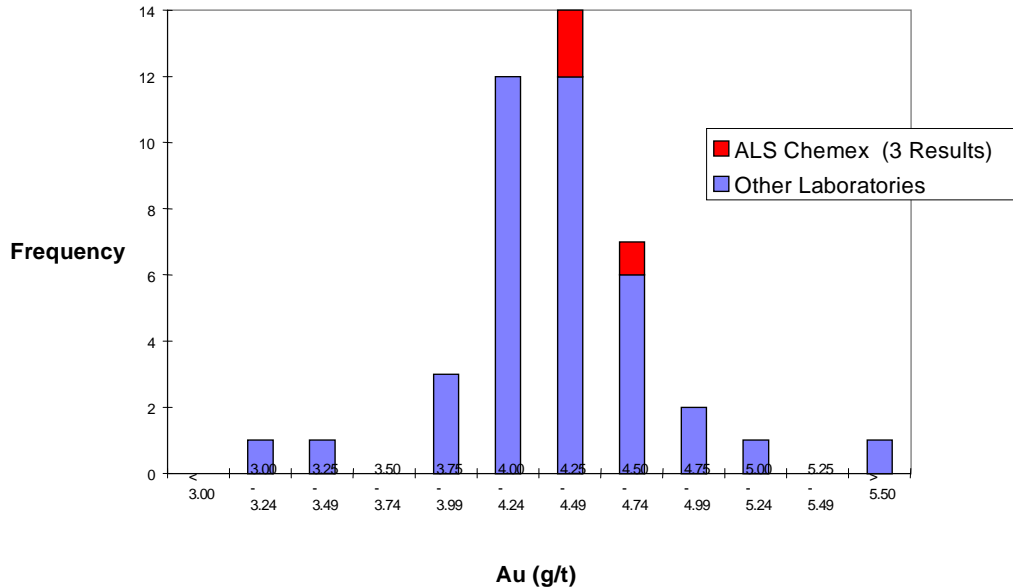


#### External Proficiency Tests:

Proficiency testing provides an independent assessment of laboratory performance by an outside agency. Test materials are regularly distributed to the participants, ideally four times a year, and results are processed by a central agency. The results are usually converted to some kind of score, such as Z-scores.

All ALS Chemex analytical facilities in North America participate in proficiency tests for the analytical procedures routinely done at each laboratory. ALS Chemex has participated in several rounds of proficiency tests organized by organizations such as Canadian Certified Reference Materials Projects, and Geostats as well as a number of independent studies organized by consultants for specific clients. ALS has also participated in several certification studies for new certified reference materials by CANMET and Rocklabs.

**Histogram - CCRMP Proficiency Test - ISO Guide 25**  
**Sample S98-C1-4 (Nov 1998) - Assigned Value 4.301 g/t Au**



ALS Chemex has obtained the highest rating for the results submitted, with a few minor exceptions. Feedback from these studies is invaluable in ensuring our continuing accuracy and validation of method.

#### Quality Assurance Meetings:

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

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

The Quality Assurance Department and senior management participate in these meetings, either in person or by teleconference.

**APPENDIX VIII**  
**ASSAY CERTIFICATES**





# 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: 1  
Finalized Date: 14-OCT-2005  
Account: SPEGOL

## CERTIFICATE VA05084895

Project: Galore Creek

P.O. No.:

This report is for 43 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSEL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd 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
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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: \_\_\_\_\_



# 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

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Total # Pages: 3 (A - C)

Finalized Date: 14-OCT-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05084895

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	
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
137187		9.52	0.166	2.0	1.21	25	<10	50	0.5	<2	3.54	2.3	22	16	557	6.03
137188		9.70	0.329	0.7	1.24	16	<10	30	0.5	<2	3.55	<0.5	21	16	108	5.63
137189		10.14	0.009	0.9	1.19	14	<10	20	0.6	<2	4.33	<0.5	22	18	259	6.58
137190		0.12	1.550	0.7	1.14	2460	30	20	<0.5	26	5.54	0.5	75	24	122	3.13
137191		8.66	0.007	0.9	1.26	27	<10	20	0.6	<2	3.75	<0.5	19	16	224	5.70
137192		10.62	0.018	0.6	1.41	13	<10	70	0.7	<2	5.25	<0.5	19	18	145	6.66
137193		9.90	0.016	0.7	1.48	14	<10	50	0.7	<2	3.87	<0.5	19	14	105	5.73
137194		8.70	0.012	0.7	1.26	21	<10	30	0.9	<2	3.64	<0.5	17	14	238	5.96
137195		8.48	0.013	1.5	1.31	31	<10	160	0.9	<2	4.49	<0.5	19	13	326	6.12
137196		<0.02	0.015	1.5	1.24	25	<10	190	0.9	<2	4.34	<0.5	18	12	313	5.91
137197		10.20	0.009	0.5	1.57	11	<10	70	0.9	<2	4.77	<0.5	20	13	92	6.09
137198		9.32	0.020	0.5	1.48	8	<10	80	0.7	<2	4.65	<0.5	19	14	169	5.99
137199		8.54	0.011	0.6	1.54	14	<10	70	0.6	<2	4.47	<0.5	21	15	170	6.17
137200		10.62	0.005	0.5	1.24	16	<10	70	<0.5	<2	3.01	<0.5	16	13	172	4.97
137201		9.14	0.008	0.4	1.28	11	40	60	<0.5	<2	2.76	<0.5	18	18	11	4.31
137202		8.98	0.013	0.6	1.49	27	<10	50	<0.5	<2	2.70	<0.5	18	17	152	3.74
137203		10.50	<0.005	0.4	1.43	18	<10	60	<0.5	<2	2.46	<0.5	16	14	16	4.03
137204		9.70	0.011	0.9	1.42	27	<10	70	0.6	<2	2.93	<0.5	24	16	170	4.67
137205		8.50	<0.005	0.3	1.39	8	<10	40	0.6	<2	3.21	<0.5	20	15	14	4.24
137206		8.50	<0.005	0.4	1.20	11	<10	40	0.5	<2	2.74	<0.5	16	14	32	4.66
137207		0.12	0.044	73.3	0.34	72	<10	100	<0.5	10	0.28	0.7	2	16	>10000	1.44
137208		10.16	<0.005	0.7	1.31	7	<10	50	0.6	<2	3.41	<0.5	14	10	65	4.82
137209		10.94	0.011	<0.2	1.30	10	<10	30	0.7	<2	3.52	<0.5	16	13	57	5.77
137210		9.44	0.038	0.4	1.40	8	<10	50	0.7	<2	3.93	<0.5	16	9	24	5.15
137211		10.06	0.017	0.3	1.31	7	<10	40	0.8	<2	3.71	<0.5	17	12	44	5.78
137212		10.04	0.163	0.7	1.50	9	<10	80	0.9	<2	3.90	<0.5	20	10	52	5.53
137213		10.02	0.064	0.7	1.23	28	<10	70	0.7	<2	3.60	0.5	26	12	29	5.04
137214		1.06	<0.005	2.8	0.04	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	1	0.05
137215		9.46	0.025	0.6	1.50	11	<10	50	0.7	<2	3.48	0.5	19	13	95	4.69
137216		6.38	0.018	0.6	1.64	6	<10	30	0.7	<2	3.86	<0.5	17	13	137	5.08
137217		11.86	<0.005	0.4	1.91	8	<10	50	<0.5	<2	2.42	<0.5	22	55	50	5.20
137218		<0.02	<0.005	0.5	2.08	6	<10	60	<0.5	<2	2.64	<0.5	23	58	52	5.54
137219		10.16	0.030	1.5	1.30	12	<10	60	0.6	<2	3.94	0.9	17	11	291	4.24
137220		9.92	0.040	3.7	1.52	8	<10	70	0.8	<2	4.18	0.6	20	12	257	4.94
137221		9.28	0.016	1.1	1.48	9	<10	80	0.6	<2	3.68	0.8	17	11	239	4.60
137222		10.68	0.027	0.3	1.75	15	<10	70	0.9	<2	3.03	<0.5	19	11	21	5.55
137223		9.88	0.033	0.5	1.75	22	<10	60	0.7	<2	3.36	1.2	23	14	47	5.41
137224		9.20	0.060	1.1	1.53	19	<10	80	0.6	<2	3.74	0.5	19	10	194	4.92
137225		9.96	0.030	1.0	1.42	10	<10	80	0.6	<2	4.00	<0.5	18	10	399	4.73
137226		1.32	<0.005	3.3	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	1	0.06



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 Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05084895

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
137187	10	<1	0.26	10	1.38	973	1	0.02	11	2440	14	0.93	<2	7	285	
137188	10	<1	0.20	10	1.40	969	<1	0.03	10	2290	5	0.35	<2	7	317	
137189	10	<1	0.26	10	1.46	1010	<1	0.02	12	2400	11	0.48	<2	9	266	
137190	<10	<1	0.05	10	0.27	771	8	0.08	28	1120	12	0.63	6	2	98	
137191	10	<1	0.33	10	1.56	918	1	0.05	11	2330	6	0.30	<2	8	279	
137192	10	<1	0.31	10	1.90	1165	1	0.04	11	2420	5	0.13	<2	11	500	
137193	10	<1	0.40	10	1.85	1035	1	0.07	13	2750	9	0.31	<2	8	361	
137194	10	<1	0.15	10	1.43	1075	1	0.05	9	2540	8	0.55	<2	9	345	
137195	10	<1	0.09	10	1.68	1305	1	0.05	10	2610	37	0.60	<2	9	830	
137196	10	<1	0.09	10	1.60	1245	1	0.05	10	2470	36	0.59	<2	8	921	
137197	10	<1	0.23	10	2.04	1265	<1	0.06	12	2820	5	0.07	<2	14	453	
137198	10	<1	0.21	10	1.96	1100	<1	0.05	10	2570	3	0.05	<2	12	497	
137199	10	1	0.24	10	1.99	1050	<1	0.05	12	2570	5	0.04	<2	11	448	
137200	10	<1	0.23	10	1.34	746	<1	0.05	11	2520	5	0.04	<2	5	633	
137201	10	1	0.22	10	1.52	795	<1	0.05	11	2150	2	0.03	<2	4	455	
137202	10	<1	0.43	10	1.68	863	<1	0.04	14	2250	3	0.03	<2	4	534	
137203	10	<1	0.33	10	1.56	829	<1	0.05	12	2180	3	0.02	2	5	500	
137204	10	<1	0.38	10	1.66	1030	1	0.05	11	2350	29	1.22	<2	6	462	
137205	10	<1	0.42	10	1.56	989	<1	0.05	10	2190	29	0.50	<2	6	377	
137206	10	<1	0.28	10	1.31	827	<1	0.05	9	2240	27	0.18	<2	4	407	
137207	<10	<1	0.21	<10	0.15	227	416	0.04	4	170	156	0.60	156	2	29	
137208	10	1	0.34	10	1.42	917	2	0.05	10	2210	18	0.21	<2	5	502	
137209	10	1	0.36	10	1.52	1005	1	0.04	11	2530	5	0.20	<2	5	391	
137210	10	<1	0.49	10	1.64	1070	2	0.05	7	2340	2	0.27	<2	6	443	
137211	10	1	0.50	10	1.64	1105	1	0.04	10	2680	7	0.21	<2	7	426	
137212	10	<1	0.86	10	1.90	1145	1	0.05	9	2340	9	0.48	<2	9	502	
137213	10	<1	0.75	10	1.46	960	<1	0.04	9	2310	17	1.59	<2	5	350	
137214	<10	<1	0.01	<10	2.17	27	<1	0.02	<1	60	<2	<0.01	<2	<1	4920	
137215	10	<1	0.80	10	1.75	1035	<1	0.04	9	2280	12	0.42	<2	5	330	
137216	10	1	0.46	10	1.78	980	1	0.04	11	2410	8	0.12	<2	5	299	
137217	10	<1	0.08	10	2.01	787	1	0.11	21	1250	8	0.17	<2	5	179	
137218	10	<1	0.10	10	2.15	837	1	0.14	16	1320	9	0.18	<2	6	201	
137219	10	<1	0.47	10	1.48	898	1	0.04	7	2120	23	0.59	<2	5	392	
137220	10	<1	0.85	10	1.74	1065	1	0.05	10	2280	18	0.68	<2	6	443	
137221	10	<1	0.75	10	1.68	961	1	0.05	9	2110	16	0.66	<2	6	471	
137222	10	<1	1.09	10	1.98	1055	<1	0.06	11	2440	8	0.36	<2	7	345	
137223	10	1	1.06	10	2.01	1095	<1	0.05	9	2390	17	0.78	<2	8	308	
137224	10	<1	0.77	10	1.79	1035	1	0.04	8	2370	17	0.64	<2	7	424	
137225	10	<1	0.66	10	1.72	1030	1	0.04	10	2320	26	0.66	<2	6	452	
137226	<10	<1	0.01	<10	2.12	25	<1	0.02	<1	40	<2	<0.01	<2	<1	5430	



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## CERTIFICATE OF ANALYSIS VA05084895

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
137187		0.19	<10	<10	258	<10	78	
137188		0.17	<10	<10	249	<10	74	
137189		0.16	<10	<10	291	<10	76	
137190		0.04	<10	<10	23	10	62	
137191		0.15	<10	<10	259	<10	72	
137192		0.12	<10	<10	320	<10	81	
137193		0.14	<10	<10	255	<10	88	
137194		0.16	<10	<10	259	<10	69	
137195		0.10	<10	<10	268	<10	71	
137196		0.11	<10	<10	258	<10	69	
137197		0.08	<10	<10	294	<10	88	
137198		0.10	<10	<10	281	<10	73	
137199		0.17	<10	<10	291	<10	87	
137200		0.18	<10	<10	219	<10	68	
137201		0.18	<10	<10	164	<10	76	
137202		0.19	<10	<10	146	<10	87	
137203		0.20	<10	<10	160	<10	83	
137204		0.18	<10	<10	167	<10	90	
137205		0.17	<10	<10	165	<10	80	
137206		0.15	<10	<10	186	<10	66	
137207		0.05	<10	<10	10	<10	83	1.10
137208		0.15	<10	<10	199	<10	73	
137209		0.15	<10	<10	241	<10	79	
137210		0.14	<10	<10	222	<10	81	
137211		0.13	<10	<10	252	<10	79	
137212		0.14	<10	<10	245	<10	90	
137213		0.14	<10	<10	192	<10	69	
137214		<0.01	<10	<10	<1	<10	<2	
137215		0.15	<10	<10	199	<10	81	
137216		0.17	<10	<10	211	<10	84	
137217		0.36	<10	<10	111	<10	79	
137218		0.42	<10	<10	125	<10	85	
137219		0.15	<10	<10	169	<10	70	
137220		0.15	<10	<10	209	<10	88	
137221		0.14	<10	<10	200	<10	81	
137222		0.18	<10	<10	230	<10	96	
137223		0.17	<10	<10	220	<10	104	
137224		0.18	<10	<10	216	<10	96	
137225		0.16	<10	<10	210	<10	91	
137226		<0.01	<10	<10	<1	<10	2	



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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	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
137227		10.22	0.024	0.6	1.69	17	<10	50	0.8	<2	4.47	<0.5	21	13	190	5.55
137228		8.28	0.062	0.3	1.72	22	<10	60	0.9	<2	4.92	<0.5	20	13	130	5.82
137229		6.40	0.016	0.6	1.75	15	<10	60	1.4	<2	4.67	<0.5	19	12	168	5.60



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## CERTIFICATE OF ANALYSIS VA05084895

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
137227		10	<1	0.58	10	2.13	1385	2	0.04	12	2580	8	0.29	<2	9	374
137228		10	<1	0.39	10	2.04	1460	3	0.05	10	2590	11	0.30	<2	8	464
137229		10	1	0.38	10	2.06	2120	1	0.05	12	2460	5	0.29	<2	15	379



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## CERTIFICATE OF ANALYSIS VA05084895

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
	Analyte	Ti	Ti	U	V	W	Zn	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	10	1	10	2	0.01
137227		0.21	<10	<10	261	<10	132	
137228		0.23	<10	<10	274	<10	109	
137229		0.21	<10	<10	265	<10	102	



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## CERTIFICATE VA05085512

Project: Galore Creek

P.O. No.:

This report is for 48 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 29-SEP-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSSEL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd 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
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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: \_\_\_\_\_





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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05085512

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	ME-ICP41
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
137139		8.38	0.007	<0.2	1.84	23	<10	130	0.6	2	4.19	<0.5	20	27	66	5.22
137140		8.86	0.009	<0.2	1.64	30	<10	230	0.5	<2	3.67	<0.5	18	20	42	4.85
137141		9.38	0.012	0.2	1.81	30	<10	160	0.5	<2	4.29	<0.5	21	13	65	5.03
137142		10.74	0.005	<0.2	1.72	32	<10	200	0.5	3	4.18	<0.5	21	17	8	5.82
137143		8.90	<0.005	<0.2	1.85	29	<10	210	0.6	2	4.88	<0.5	21	12	11	5.50
137144		0.12	0.042	74.8	0.36	73	<10	100	<0.5	4	0.30	0.9	2	12	>10000	1.48
137145		9.86	0.013	0.2	1.90	16	<10	120	0.9	2	5.69	<0.5	21	15	506	5.99
137146		10.14	0.094	0.9	1.64	43	<10	80	0.7	2	4.87	0.6	23	12	441	5.64
137147		1.30	<0.005	<0.2	0.08	5	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	14	0.11
137148		9.66	0.020	0.3	1.82	18	<10	120	0.6	<2	5.81	<0.5	20	14	45	6.09
137149		9.10	0.011	<0.2	1.86	20	<10	170	0.6	<2	5.31	<0.5	22	14	18	5.70
137150		10.44	0.005	0.3	1.76	17	<10	170	0.5	<2	4.54	<0.5	23	13	56	6.24
137151		9.04	<0.005	<0.2	1.77	17	<10	170	<0.5	<2	3.75	<0.5	24	18	6	6.43
137152		11.38	<0.005	<0.2	1.76	16	<10	170	0.5	<2	4.10	<0.5	23	14	7	6.42
137153		10.84	<0.005	<0.2	2.02	18	<10	190	0.5	2	4.04	<0.5	25	16	4	5.57
137154		10.06	<0.005	<0.2	1.79	22	<10	190	<0.5	<2	3.05	<0.5	22	12	7	5.44
137155		10.14	0.013	<0.2	1.96	20	<10	220	0.6	2	4.12	<0.5	21	15	27	5.34
137156		11.24	0.006	<0.2	2.09	9	<10	260	0.8	<2	5.33	<0.5	23	12	56	6.05
137157		12.28	0.005	<0.2	2.12	20	<10	170	0.8	<2	5.14	<0.5	21	14	45	5.65
137158		0.08	<0.005	0.2	2.00	21	<10	160	0.7	<2	4.94	<0.5	21	12	42	5.47
137159		5.80	0.007	3.7	1.97	26	10	180	0.6	2	3.95	<0.5	21	12	560	4.75
137160		9.98	<0.005	<0.2	1.80	27	<10	150	0.6	<2	4.71	<0.5	22	16	16	6.47
137161		10.14	0.005	0.3	1.83	27	<10	170	0.6	2	4.02	<0.5	21	12	64	5.85
137162		10.40	<0.005	<0.2	1.90	27	<10	170	0.6	2	3.71	<0.5	21	11	13	5.38
137163		0.08	<0.005	<0.2	1.98	30	<10	170	0.7	2	3.84	<0.5	21	14	19	5.45
137164		10.66	<0.005	<0.2	1.77	28	<10	190	0.5	<2	3.59	<0.5	22	11	11	5.38
137165		9.94	<0.005	0.2	1.94	31	10	210	0.5	<2	3.90	<0.5	23	14	52	5.12
137166		9.38	0.006	0.2	1.88	31	<10	160	0.5	2	3.51	<0.5	22	14	100	6.19
137167		9.06	0.010	0.2	1.86	24	<10	160	0.6	<2	3.78	<0.5	22	15	123	5.62
137168		9.78	0.009	<0.2	1.82	22	<10	190	0.7	<2	4.01	<0.5	19	11	15	4.54
137169		9.80	0.020	0.2	1.88	18	<10	100	0.9	<2	4.31	0.5	22	19	232	5.39
137170		12.02	0.039	<0.2	1.78	12	<10	100	0.6	2	4.78	<0.5	17	15	63	5.73
137171		9.98	0.006	<0.2	1.72	14	<10	130	0.5	<2	3.40	<0.5	18	16	160	5.40
137172		1.66	<0.005	<0.2	0.05	7	<10	<10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
137173		9.86	0.006	0.4	1.75	10	20	100	0.7	<2	4.57	<0.5	19	15	403	5.57
137174		11.38	0.033	<0.2	1.72	7	<10	70	0.6	<2	5.43	<0.5	19	14	156	5.82
137175		9.50	0.007	1.0	1.62	14	<10	60	0.7	2	4.42	<0.5	19	17	824	6.28
137176		10.06	0.012	<0.2	1.86	14	<10	50	1.0	<2	5.14	<0.5	20	20	124	6.75
137177		9.68	0.011	0.3	2.03	10	<10	50	1.1	<2	5.02	<0.5	20	18	268	5.96
137178		0.12	0.019	3.4	0.33	9	<10	110	<0.5	<2	1.10	<0.5	2	4	4500	1.15



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Finalized Date: 14-OCT-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05085512

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	0.01	10	10	2	0.01	2	1	1	
137139		10	1	0.49	10	2.25	984	<1	0.07	26	2700	8	0.04	3	10	305
137140		10	<1	0.78	10	1.94	856	<1	0.07	11	2860	15	0.02	3	9	353
137141		10	<1	0.74	10	2.23	1010	<1	0.05	13	3070	6	0.01	<2	10	364
137142		10	<1	0.76	10	2.11	973	<1	0.07	12	3210	9	0.01	3	10	352
137143		10	<1	0.45	10	2.57	1130	<1	0.05	16	2860	6	0.01	<2	13	306
137144		<10	<1	0.22	<10	0.15	233	455	0.04	3	150	156	0.62	159	2	31
137145		10	<1	0.69	10	2.68	1320	<1	0.07	17	2720	58	0.06	<2	18	276
137146		10	<1	0.43	10	2.02	1450	<1	0.06	11	3010	116	2.76	<2	14	237
137147		<10	<1	0.02	<10	2.06	51	<1	0.02	2	80	2	<0.01	<2	1	5820
137148		10	<1	0.32	10	2.52	1355	<1	0.06	16	2830	20	0.03	<2	15	291
137149		10	<1	0.36	10	2.52	1385	<1	0.07	14	2980	6	0.01	<2	13	300
137150		10	<1	0.63	10	2.29	1180	<1	0.06	12	3260	6	0.01	<2	10	314
137151		10	1	0.87	10	2.19	1085	<1	0.07	14	2710	3	0.01	2	9	368
137152		10	<1	1.10	10	2.32	1150	<1	0.07	16	2650	6	0.01	<2	9	271
137153		10	<1	1.28	10	2.51	1140	<1	0.08	15	2530	4	0.01	4	9	340
137154		10	<1	1.10	10	2.04	936	<1	0.06	13	2320	9	0.01	<2	7	397
137155		10	1	1.28	10	2.30	1175	<1	0.07	13	2440	8	0.01	<2	11	430
137156		10	<1	1.12	10	2.79	1720	<1	0.06	12	2560	10	0.02	<2	16	370
137157		10	<1	0.92	10	2.69	1465	<1	0.06	14	2590	9	0.01	<2	16	360
137158		10	<1	0.88	10	2.58	1395	<1	0.05	12	2550	11	0.01	2	14	341
137159		10	<1	1.10	10	2.17	945	<1	0.08	12	2700	14	0.03	3	9	457
137160		10	<1	0.89	10	2.17	1150	<1	0.07	15	2890	5	0.01	<2	13	362
137161		10	<1	1.16	10	2.20	987	<1	0.07	12	3210	5	0.01	3	9	352
137162		10	<1	1.13	10	2.22	967	<1	0.07	12	2870	6	0.01	<2	10	413
137163		10	1	1.15	10	2.26	985	<1	0.08	13	2970	11	0.01	2	10	436
137164		10	1	1.14	10	2.08	880	<1	0.07	12	3050	<2	0.01	<2	8	383
137165		10	<1	1.19	10	2.17	900	<1	0.07	9	3070	5	0.01	<2	9	413
137166		10	<1	1.11	10	2.13	926	<1	0.07	15	3300	4	0.01	5	8	451
137167		10	1	0.98	10	2.01	927	<1	0.07	13	3130	3	0.02	<2	8	577
137168		10	<1	0.90	10	2.15	973	<1	0.06	12	2870	<2	0.01	<2	10	475
137169		10	<1	0.66	10	2.27	1155	<1	0.06	12	2380	6	0.25	<2	13	280
137170		10	<1	0.70	10	2.15	1120	<1	0.06	12	2470	10	0.06	<2	11	372
137171		10	<1	0.69	10	1.80	866	<1	0.07	13	2540	<2	0.02	<2	9	473
137172		<10	<1	0.01	<10	1.90	31	<1	0.01	2	50	2	<0.01	<2	<1	5350
137173		10	1	0.66	10	2.04	1000	<1	0.05	13	2040	8	0.05	2	10	431
137174		10	<1	0.47	10	2.22	1100	<1	0.05	12	2700	3	0.03	<2	12	537
137175		10	<1	0.40	10	1.99	1055	<1	0.05	14	2490	16	0.09	<2	11	380
137176		10	1	0.36	10	2.43	1425	<1	0.04	15	2400	2	0.03	<2	15	538
137177		10	<1	0.37	10	2.59	1580	<1	0.05	12	2030	10	0.06	<2	20	290
137178		<10	<1	0.14	<10	0.08	231	401	0.02	1	320	7	0.60	3	<1	148



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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05085512

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
137139		0.20	<10	<10	218	<10	73	
137140		0.21	<10	<10	217	<10	66	
137141		0.22	<10	<10	223	<10	74	
137142		0.23	<10	<10	257	<10	70	
137143		0.24	<10	<10	270	<10	94	
137144		0.05	<10	<10	11	<10	74	1.08
137145		0.23	<10	<10	313	<10	92	
137146		0.18	<10	<10	238	<10	65	
137147		0.01	<10	<10	6	<10	3	
137148		0.20	<10	<10	303	<10	68	
137149		0.20	<10	<10	282	<10	91	
137150		0.21	<10	<10	285	<10	75	
137151		0.24	<10	<10	288	<10	65	
137152		0.24	<10	<10	291	<10	73	
137153		0.24	<10	<10	258	<10	78	
137154		0.24	<10	<10	242	<10	67	
137155		0.25	<10	<10	245	<10	82	
137156		0.23	<10	<10	296	<10	96	
137157		0.24	<10	<10	287	<10	90	
137158		0.22	<10	<10	275	<10	87	
137159		0.25	<10	<10	224	<10	83	
137160		0.25	<10	<10	308	<10	72	
137161		0.23	<10	<10	263	<10	81	
137162		0.25	<10	<10	258	<10	87	
137163		0.25	<10	<10	260	<10	88	
137164		0.23	<10	<10	255	<10	67	
137165		0.25	<10	<10	249	<10	70	
137166		0.24	<10	<10	287	<10	78	
137167		0.23	<10	<10	267	<10	78	
137168		0.22	<10	<10	219	<10	82	
137169		0.23	<10	<10	264	<10	90	
137170		0.21	<10	<10	251	<10	74	
137171		0.25	<10	<10	260	<10	70	
137172		<0.01	<10	<10	3	<10	<2	
137173		0.24	<10	<10	276	<10	78	
137174		0.18	<10	<10	295	<10	86	
137175		0.15	<10	<10	298	<10	80	
137176		0.13	<10	<10	338	<10	96	
137177		0.15	<10	<10	307	<10	116	
137178		0.01	<10	<10	7	<10	18	



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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05085512

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	ME-ICP41
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
137179		9.42	0.008	<0.2	1.80	7	<10	70	0.8	2	5.28	<0.5	18	24	58	5.97
137180		7.78	<0.005	<0.2	1.48	12	<10	70	0.6	<2	5.12	<0.5	17	21	185	6.60
137181		10.38	0.018	0.7	1.56	18	<10	80	0.7	<2	5.32	0.5	19	18	673	6.56
137182		1.12	<0.005	<0.2	0.11	5	<10	10	<0.5	<2	>25.0	<0.5	<1	1	11	0.20
137183		11.56	0.008	<0.2	1.61	17	<10	90	0.6	<2	5.21	<0.5	21	20	23	6.77
137184		10.20	0.057	0.3	1.70	32	<10	70	0.6	3	5.78	<0.5	23	19	257	6.92
137185		8.12	0.022	<0.2	1.41	13	<10	80	0.6	<2	4.86	<0.5	19	25	131	7.90
137186		10.50	0.085	4.0	1.58	24	<10	70	0.7	<2	4.45	0.9	20	18	1125	7.71



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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05085512

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
137179		10	1	0.28	10	2.32	1200	<1	0.05	16	2170	3	0.02	<2	13	503
137180		10	<1	0.30	10	1.80	1025	<1	0.06	15	2400	8	0.03	3	10	359
137181		10	<1	0.38	10	1.97	1220	<1	0.05	11	2400	23	0.55	<2	13	504
137182		<10	<1	0.02	<10	1.74	63	<1	0.01	2	130	<2	<0.01	<2	1	4930
137183		10	<1	0.27	10	2.02	1240	<1	0.05	17	2430	3	0.02	4	11	481
137184		10	<1	0.38	10	2.16	1850	<1	0.05	13	2270	24	1.36	3	14	542
137185		10	<1	0.27	10	1.70	1420	<1	0.06	14	2280	10	0.22	<2	11	564
137186		10	<1	0.26	10	1.87	1300	<1	0.05	13	2380	28	1.14	<2	10	428



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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05085512

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
137179		0.18	<10	<10	305	<10	85	
137180		0.21	<10	<10	318	<10	66	
137181		0.18	<10	<10	311	<10	73	
137182		0.01	<10	<10	10	<10	3	
137183		0.21	<10	<10	318	<10	70	
137184		0.19	<10	<10	312	<10	86	
137185		0.19	<10	<10	387	<10	78	
137186		0.20	<10	<10	337	<10	89	



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## CERTIFICATE VA05086830

Project: Galore Creek

P.O. No.:

This report is for 48 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 6-OCT-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSSEL

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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:



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

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To: SPECTRUMGOLD INC.

#2300 - 200 GRANVILLE STREET

VANCOUVER BC V6C 1S4

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Total # Pages: 3 (A - C)

Finalized Date: 17-OCT-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05086830

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	ME-ICP41
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
133953		10.30	0.041	1.8	2.18	23	10	150	0.8	<2	5.67	3.1	24	8	583	4.83
133954		10.00	0.027	0.9	2.20	33	10	150	0.8	<2	4.37	1.0	22	2	250	4.83
133955		8.40	0.014	1.0	2.01	24	10	80	0.8	<2	5.22	1.8	19	2	193	4.64
133956		10.74	0.063	2.4	1.73	22	10	30	0.6	2	6.02	3.3	13	8	1100	4.68
133957		<0.02	0.067	2.3	1.70	14	<10	40	0.6	2	5.94	3.1	11	3	1000	4.72
133958		10.50	0.064	3.5	1.54	48	10	30	0.6	3	6.38	1.4	14	9	477	4.04
133959		4.82	0.118	3.5	1.40	156	10	20	0.5	<2	5.57	7.3	27	2	1090	4.12
133960		4.82	0.052	2.5	1.58	51	10	20	0.6	<2	6.65	5.8	15	8	360	4.61
133961		11.12	0.024	1.5	1.37	20	10	20	0.6	<2	7.68	2.4	9	2	243	3.62
133962		9.72	0.030	2.2	1.66	22	10	30	0.5	2	6.13	5.0	18	9	522	4.78
133963		10.84	0.043	2.8	1.58	32	10	20	<0.5	<2	6.78	2.0	22	2	773	5.13
133964		10.58	0.036	2.7	1.72	29	10	20	<0.5	<2	5.74	2.7	23	9	898	5.18
133965		1.26	<0.005	4.1	0.04	3	<10	10	<0.5	<2	>25.0	<0.5	1	<1	14	0.07
133966		11.60	0.063	2.1	1.80	20	10	20	<0.5	<2	6.32	9.7	20	7	543	4.63
133967		9.84	0.078	4.2	0.95	23	10	20	<0.5	4	6.19	4.6	10	6	572	2.69
133968		9.46	0.237	5.1	1.81	19	10	30	<0.5	3	6.65	5.5	17	8	2370	4.75
133969		8.54	0.237	4.4	1.81	22	<10	20	<0.5	2	5.97	10.8	29	3	2230	5.10
133970		7.42	0.118	3.0	2.18	16	10	40	<0.5	<2	7.36	8.9	13	4	1520	4.68
133971		0.10	0.044	68.3	0.34	76	<10	100	<0.5	8	0.30	0.8	3	21	>10000	1.40
133972		7.62	0.036	1.8	1.76	16	10	40	<0.5	<2	5.96	3.0	5	2	263	3.07
133973		6.68	0.181	4.9	1.36	21	10	30	<0.5	2	5.37	6.4	23	7	1965	3.19
133974		10.32	0.184	7.4	1.45	25	10	20	<0.5	5	4.91	7.5	22	3	2230	4.78
133975		0.08	0.188	7.4	1.45	27	10	20	<0.5	6	4.98	7.4	22	10	2280	4.82
133976		10.86	0.129	8.0	1.08	28	10	20	<0.5	10	5.69	7.8	20	2	1850	4.49
133977		10.44	0.191	6.1	1.00	30	10	20	<0.5	3	5.77	5.6	27	9	1850	4.46
133978		9.88	0.123	3.4	0.59	23	10	20	<0.5	<2	5.34	2.4	19	2	922	2.51
133979		10.60	0.147	4.1	0.90	66	10	20	<0.5	2	5.28	5.5	41	9	1385	5.21
133980		10.90	0.066	2.4	1.04	64	<10	20	<0.5	<2	4.69	5.5	46	3	1145	5.48
133981		11.04	0.093	3.1	0.97	67	<10	20	<0.5	<2	4.31	7.5	53	13	2500	5.42
133982		10.48	0.081	2.3	0.81	84	<10	20	<0.5	2	4.06	5.8	61	3	1300	4.59
133983		8.46	0.144	5.3	0.78	72	<10	30	<0.5	2	4.12	3.0	78	11	4670	3.53
133984		9.94	0.168	2.1	0.53	19	10	30	<0.5	<2	3.40	0.7	18	2	357	1.20
133985		10.16	0.025	2.9	0.64	16	10	30	<0.5	2	3.25	0.8	19	10	971	1.58
133986		7.86	0.025	3.5	0.91	19	20	50	<0.5	2	3.60	0.5	27	1	1090	2.75
133987		1.26	<0.005	4.7	0.03	7	<10	10	<0.5	<2	>25.0	<0.5	1	1	15	0.03
133988		10.10	0.154	10.4	0.83	102	<10	20	<0.5	<2	4.55	9.0	116	2	6530	4.30
133989		8.44	0.035	3.3	0.75	31	10	30	<0.5	<2	3.61	1.5	45	12	980	4.15
133990		8.40	0.108	5.3	0.90	72	<10	20	<0.5	3	3.75	3.3	47	2	1800	5.44
133991		7.86	0.935	24.3	0.82	140	<10	10	<0.5	10	3.56	27.3	72	20	9250	7.36
133992		0.10	0.041	68.4	0.34	77	<10	100	<0.5	8	0.29	0.9	2	21	>10000	1.39





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Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05086830

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	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	
133953		10	<1	0.99	<10	1.55	2470	3	0.03	5	1800	10	2.06	<2	14	825
133954		10	<1	0.90	<10	1.59	1915	3	0.03	6	1710	20	1.93	<2	14	540
133955		10	<1	0.95	<10	1.57	1850	8	0.04	5	1650	30	3.80	<2	12	791
133956		10	<1	1.69	10	1.68	3410	1	0.03	3	1800	9	3.62	<2	14	1870
133957		10	<1	1.69	10	1.66	3360	2	0.03	4	1770	12	3.49	<2	14	1915
133958		10	<1	1.45	10	1.37	2870	1	0.02	6	1800	9	3.53	<2	11	1820
133959		10	<1	1.28	20	1.14	1785	15	0.02	5	2070	17	6.18	<2	5	1885
133960		10	<1	1.34	<10	1.30	2080	23	0.02	1	1640	34	5.74	<2	11	2130
133961		10	<1	1.31	10	1.29	2770	4	0.02	1	1750	9	4.33	<2	12	2120
133962		10	<1	1.14	10	1.26	2460	24	0.02	4	1680	20	4.91	<2	10	2080
133963		10	<1	1.36	<10	1.37	2450	5	0.02	2	1740	17	6.54	<2	8	2210
133964		10	<1	1.71	10	1.48	2940	17	0.02	3	1770	12	5.15	<2	12	1880
133965		<10	<1	0.01	<10	1.91	32	<1	0.01	<1	50	3	<0.01	<2	1	5150
133966		10	<1	1.59	10	1.55	3040	1	0.02	3	1710	33	4.89	<2	12	2090
133967		10	<1	0.82	10	0.66	1350	18	0.02	5	2200	43	5.29	<2	6	2260
133968		10	<1	1.71	10	1.72	3170	<1	0.03	3	2220	38	4.42	<2	11	2010
133969		10	<1	1.74	10	1.57	2650	7	0.02	6	2100	65	5.79	<2	12	1955
133970		10	<1	2.10	10	1.93	3900	2	0.03	1	1910	29	3.86	<2	16	2090
133971		<10	<1	0.21	<10	0.14	224	435	0.04	3	160	150	0.62	149	2	32
133972		10	1	1.16	10	1.09	2740	1	0.04	3	1530	27	2.73	<2	10	2280
133973		10	<1	0.94	10	0.86	2110	104	0.02	2	1550	49	3.73	<2	6	2100
133974		10	<1	1.48	10	1.43	2690	6	0.02	6	1990	226	5.75	<2	12	1955
133975		10	<1	1.48	10	1.45	2710	5	0.02	5	2030	233	5.87	2	12	1915
133976		10	<1	1.06	10	1.24	2300	14	0.02	1	1940	235	6.20	<2	11	2180
133977		10	<1	0.97	<10	1.24	2250	61	0.02	6	1920	57	6.78	<2	11	2100
133978		<10	<1	0.57	<10	0.62	1265	33	0.01	2	1590	39	5.23	<2	5	2250
133979		<10	<1	0.88	<10	1.18	2320	14	0.02	4	1900	83	7.04	<2	8	1865
133980		<10	<1	1.04	<10	1.36	2530	21	0.02	4	1840	27	6.66	<2	13	1825
133981		10	<1	0.92	<10	1.29	2610	6	0.02	3	1930	42	5.53	<2	10	1700
133982		<10	<1	0.74	<10	0.98	2150	2	0.02	3	1970	35	4.68	<2	10	1780
133983		<10	<1	0.78	10	1.09	2210	<1	0.01	4	2290	85	3.16	<2	11	2110
133984		<10	<1	0.46	10	0.25	674	1	0.02	1	920	35	2.67	<2	2	2520
133985		<10	<1	0.51	10	0.37	944	2	0.02	4	990	39	2.08	<2	2	2560
133986		<10	<1	0.68	10	0.72	1895	48	0.02	<1	1340	33	1.64	<2	5	2470
133987		<10	<1	0.01	<10	1.73	22	<1	0.01	<1	30	<2	<0.01	<2	1	5450
133988		10	<1	0.82	10	0.97	1925	4	0.02	5	2060	144	3.33	<2	8	1920
133989		<10	<1	0.69	10	1.05	2330	1	0.02	3	1860	77	2.70	<2	11	2030
133990		10	<1	0.84	10	1.19	2210	22	0.02	1	2030	155	5.08	<2	10	1545
133991		10	<1	0.77	10	1.18	2000	44	0.02	4	2190	1220	7.70	<2	9	1325
133992		<10	<1	0.21	<10	0.14	220	437	0.04	1	150	155	0.61	148	2	31



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Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05086830

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
133953		0.26	<10	<10	266	10	371	
133954		0.26	10	<10	211	<10	182	
133955		0.22	<10	<10	187	10	225	
133956		0.25	<10	<10	459	<10	425	
133957		0.25	<10	<10	478	<10	413	
133958		0.17	<10	<10	344	<10	216	
133959		0.06	<10	<10	98	<10	695	
133960		0.11	<10	<10	222	<10	517	
133961		0.12	<10	<10	261	<10	349	
133962		0.19	<10	<10	227	<10	495	
133963		0.21	<10	<10	215	<10	259	
133964		0.17	<10	<10	311	<10	346	
133965		0.01	<10	<10	2	<10	2	
133966		0.14	<10	<10	259	<10	968	
133967		0.07	<10	<10	120	<10	431	
133968		0.25	10	<10	348	<10	582	
133969		0.21	<10	<10	230	<10	1040	
133970		0.24	<10	<10	398	<10	890	
133971		0.05	<10	<10	10	<10	71	1.10
133972		0.21	<10	<10	271	<10	369	
133973		0.14	<10	<10	170	<10	593	
133974		0.08	<10	<10	190	10	637	
133975		0.08	<10	<10	194	<10	643	
133976		0.05	10	<10	173	<10	707	
133977		0.04	<10	<10	140	<10	510	
133978		0.02	<10	<10	98	<10	230	
133979		0.04	<10	<10	160	<10	499	
133980		0.05	<10	<10	167	<10	494	
133981		0.04	<10	<10	173	<10	679	
133982		0.02	<10	<10	131	<10	535	
133983		0.03	<10	<10	109	<10	283	
133984		0.01	<10	<10	40	<10	77	
133985		0.01	<10	<10	48	<10	86	
133986		0.02	<10	<10	93	<10	118	
133987		<0.01	<10	<10	<1	<10	<2	
133988		0.03	<10	<10	114	<10	668	
133989		0.02	<10	<10	120	<10	181	
133990		0.03	<10	<10	148	<10	322	
133991		0.03	<10	<10	141	<10	2010	
133992		0.05	<10	<10	10	<10	75	1.11



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## CERTIFICATE OF ANALYSIS VA05086830

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	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
133993		8.58	0.216	12.1	0.96	119	10	20	<0.5	7	5.01	9.5	54	2	3610	5.67
133994		8.88	0.662	26.6	1.18	126	10	20	<0.5	2	5.03	15.2	64	15	7000	7.27
133995		8.08	0.030	1.9	0.84	12	10	50	<0.5	<2	5.76	1.4	17	1	651	3.21
133996		8.16	0.055	1.9	1.58	24	10	70	0.5	<2	6.12	2.0	29	8	540	3.71
133997		8.78	0.101	3.4	1.20	12	20	80	0.6	<2	5.23	2.6	18	1	1050	3.55
133998		8.42	0.481	16.7	1.52	68	10	30	0.5	2	5.75	9.3	52	10	7970	6.60
133999		7.62	0.542	22.1	1.46	50	10	30	0.5	6	5.08	13.4	50	2	8780	5.33
134000		<0.02	0.471	22.3	1.45	46	10	30	0.5	<2	5.15	13.5	47	12	9000	5.30



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## CERTIFICATE OF ANALYSIS VA05086830

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	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
133993		<10	1	0.83	10	1.08	2040	55	0.02	6	1940	614	6.94	<2	11
133994		10	1	1.15	20	1.76	2690	20	0.02	8	2850	467	7.32	<2	12
133995		<10	2	0.62	10	0.82	2170	5	0.03	3	1290	53	2.65	<2	7
133996		10	1	0.83	20	0.92	2190	3	0.03	5	1400	84	2.20	<2	7
133997		10	<1	0.91	10	0.85	2090	2	0.03	3	1370	103	1.59	<2	7
133998		10	1	1.51	20	2.03	3270	1	0.03	12	3390	27	5.01	<2	9
133999		10	2	1.51	20	1.99	2960	1	0.03	9	2950	79	4.25	<2	7
134000		10	1	1.49	20	1.98	3000	1	0.03	10	3010	80	4.20	<2	7



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## CERTIFICATE OF ANALYSIS VA05086830

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
133993		0.03	<10	<10	164	<10	692	
133994		0.06	<10	<10	285	<10	1140	
133995		0.04	<10	<10	184	<10	134	
133996		0.09	<10	<10	266	<10	196	
133997		0.07	<10	<10	242	<10	267	
133998		0.09	<10	<10	285	<10	717	
133999		0.08	<10	<10	223	<10	1045	
134000		0.08	<10	<10	221	<10	1050	



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

Page: 1  
Finalized Date: 24-OCT-2005  
Account: SPEGOL

## CERTIFICATE VA05089246

Project: Galore Creek

P.O. No.:

This report is for 84 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 17-OCT-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSSEL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd 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
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

## ANALYTICAL PROCEDURES

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

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:



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## CERTIFICATE OF ANALYSIS VA05089246

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	ME-ICP41
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
133869		10.00	0.410	0.5	1.06	29	10	70	0.9	<2	0.84	4.2	9	2	479	3.17
133870		7.24	0.230	0.8	1.36	65	10	50	0.9	<2	2.33	3.4	13	4	418	5.68
133871		0.10	1.785	0.7	1.12	2370	20	20	<0.5	28	5.46	0.5	74	24	122	3.12
133872		10.96	0.084	1.1	1.39	37	10	40	0.6	<2	1.77	3.6	20	16	446	5.17
133873		9.34	0.062	0.7	1.42	43	10	70	0.7	<2	3.45	0.6	18	3	310	5.17
133874		9.28	0.146	0.9	1.16	56	10	30	0.6	<2	2.29	<0.5	23	3	446	4.88
133875		<0.02	0.148	1.1	1.14	60	10	20	0.6	<2	2.22	<0.5	23	10	448	4.83
133876		10.62	0.262	1.2	1.01	55	10	20	0.6	<2	2.89	<0.5	23	2	538	5.87
133877		9.68	0.678	1.6	1.20	46	10	30	0.8	<2	2.45	<0.5	21	3	471	6.79
133878		12.92	0.074	1.2	1.27	43	10	40	0.7	<2	2.16	0.8	24	6	656	6.45
133879		10.34	0.047	1.4	1.10	108	10	30	0.8	<2	2.50	<0.5	28	2	746	8.29
133880		11.22	0.031	1.4	0.67	83	10	30	0.5	<2	2.33	1.2	23	1	605	5.81
133881		11.28	0.028	1.4	1.42	49	10	40	0.5	<2	3.03	<0.5	35	5	896	5.91
133882		10.74	0.020	1.3	1.34	26	10	50	0.8	<2	2.47	0.5	22	2	678	6.73
133883		10.70	0.011	0.6	1.42	25	10	110	0.6	<2	4.39	<0.5	17	2	327	5.60
133884		0.10	0.013	2.6	0.32	5	<10	100	<0.5	<2	1.07	<0.5	1	7	4240	1.14
133885		11.66	0.030	0.8	1.31	34	10	90	0.8	<2	3.49	<0.5	26	5	547	5.92
133886		11.98	0.027	0.9	1.03	53	10	70	0.7	<2	4.71	0.7	18	2	459	5.50
133887		12.34	0.005	0.5	1.55	24	10	500	0.7	<2	5.58	<0.5	13	2	196	5.27
133888		11.44	0.011	0.7	1.36	20	10	810	0.8	<2	4.69	<0.5	12	7	313	4.84
133889		11.78	0.013	1.2	1.24	16	10	950	0.6	<2	4.52	<0.5	10	6	624	4.13
133890		11.92	0.010	0.9	1.32	16	10	1090	0.8	<2	4.24	0.8	13	4	321	4.09
133891		12.60	0.013	0.7	1.32	15	10	940	0.7	<2	5.94	0.7	11	8	269	4.45
133892		12.14	0.011	0.6	1.80	20	<10	1340	1.2	<2	5.78	<0.5	8	4	100	4.22
133893		12.46	0.012	0.7	1.74	21	10	1070	1.0	<2	6.03	0.5	9	5	321	4.57
133894		12.04	0.008	0.5	2.08	19	10	1120	1.4	<2	5.89	0.6	12	8	182	4.62
133895		1.16	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.04
133896		10.50	0.019	0.7	1.66	18	10	960	0.8	<2	6.97	<0.5	12	5	331	5.52
133897		10.84	0.011	0.6	1.56	31	<10	1030	0.7	<2	6.53	<0.5	11	13	222	5.32
133898		11.08	0.008	0.4	1.78	19	<10	1060	0.8	<2	6.25	<0.5	11	4	135	5.15
133899		6.94	0.040	1.0	2.04	23	10	970	1.0	<2	5.88	2.9	16	6	724	5.37
133900		<0.02	0.042	1.2	2.02	17	10	930	1.0	<2	5.90	3.4	16	11	759	5.27
133901		7.60	0.011	0.4	1.64	12	10	780	1.0	<2	5.32	2.3	9	3	178	4.64
133902		6.50	0.016	<0.2	1.46	22	10	200	1.3	<2	3.55	3.8	8	2	235	3.48
133903		1.00	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	3	0.04
133904		11.60	0.006	0.3	0.60	16	<10	190	0.9	<2	2.75	1.0	3	1	64	1.42
133905		11.22	0.007	0.3	0.49	6	<10	190	0.7	<2	2.55	0.5	4	1	45	1.62
133906		9.36	0.006	0.5	1.24	16	<10	70	1.0	<2	2.97	1.7	12	9	132	4.08
133907		9.94	0.010	0.4	1.36	25	10	90	1.2	<2	2.98	1.5	8	3	99	3.20
133908		0.10	0.459	0.5	1.07	7610	50	20	<0.5	15	6.11	<0.5	177	11	81	3.87



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Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089246

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	0.01	2	1	1	
133869		10	1	0.68	30	0.52	1035	2	0.02	2	660	5	1.32	2	4	255
133870		10	1	1.27	30	1.15	1855	2	0.02	4	1730	6	1.88	2	12	233
133871		<10	<1	0.04	10	0.26	746	8	0.07	26	1040	10	0.65	8	2	99
133872		10	<1	1.34	20	1.46	1395	1	0.02	4	1990	3	1.80	3	14	241
133873		10	<1	1.28	20	1.49	1930	2	0.03	3	1560	4	1.51	3	13	249
133874		10	<1	0.99	20	1.17	1385	60	0.02	4	1830	8	2.15	4	11	231
133875		10	<1	0.96	20	1.17	1370	69	0.02	3	1870	8	2.25	3	11	227
133876		10	1	0.94	20	1.36	1730	5	0.02	4	1870	8	2.58	8	14	250
133877		10	<1	0.95	20	1.17	1650	2	0.02	2	1670	7	2.26	<2	13	242
133878		10	<1	1.05	20	1.12	1540	3	0.02	3	1680	5	1.96	3	12	264
133879		10	<1	1.04	20	1.23	1435	2	0.01	3	1860	11	2.62	6	14	227
133880		<10	<1	0.59	20	1.07	1435	4	0.01	3	1950	21	1.96	64	12	253
133881		10	<1	1.43	20	1.48	1765	2	0.01	3	2470	6	1.56	<2	16	303
133882		10	<1	1.17	20	1.26	1760	2	0.01	3	2060	5	1.42	<2	12	253
133883		10	<1	1.16	20	1.28	2310	1	0.03	2	2180	3	0.97	<2	15	289
133884		<10	<1	0.13	<10	0.08	225	404	0.02	1	320	6	0.61	<2	<1	147
133885		10	<1	1.14	20	1.32	1995	4	0.02	5	2250	6	1.08	<2	14	258
133886		10	<1	0.86	20	1.19	2110	5	0.01	4	2080	14	1.34	13	14	295
133887		10	<1	0.93	20	1.19	2440	3	0.02	5	1900	12	0.52	<2	15	339
133888		10	<1	0.85	20	1.12	2150	1	0.01	5	1780	7	0.32	<2	13	363
133889		10	<1	0.91	10	0.99	2040	1	0.01	4	1470	10	0.16	<2	10	391
133890		10	<1	0.83	20	0.92	2070	3	0.02	4	1260	10	0.24	5	8	445
133891		10	<1	0.83	10	1.05	2180	2	0.02	4	1630	9	0.18	<2	9	643
133892		10	<1	0.97	10	0.94	2250	<1	0.02	5	1590	7	0.10	<2	11	1020
133893		10	1	1.08	10	1.02	2390	1	0.03	5	1600	10	0.20	<2	11	2950
133894		10	1	1.00	10	1.01	2350	<1	0.05	6	1590	10	0.16	<2	11	2400
133895		<10	<1	0.01	<10	1.73	26	<1	0.01	<1	40	2	<0.01	<2	<1	5640
133896		10	<1	1.20	20	1.10	2620	2	0.01	4	1970	9	0.26	<2	12	3230
133897		10	<1	1.04	20	1.11	2250	2	<0.01	4	2090	11	0.28	<2	12	3580
133898		10	<1	1.31	20	1.25	2660	2	<0.01	5	1810	8	0.18	<2	13	3080
133899		10	<1	1.73	20	1.62	3420	2	<0.01	8	2340	10	0.27	<2	13	2780
133900		10	<1	1.69	20	1.62	3440	2	<0.01	8	2350	7	0.27	<2	13	2760
133901		10	<1	0.94	20	1.03	2730	1	<0.01	5	1730	10	0.28	<2	9	2190
133902		10	<1	0.76	10	0.75	1855	17	<0.01	<1	760	18	1.36	<2	6	>10000
133903		<10	<1	0.01	<10	1.91	32	<1	<0.01	<1	40	3	<0.01	<2	<1	5780
133904		<10	<1	0.49	20	0.17	856	5	0.01	1	400	37	0.82	<2	1	1650
133905		<10	<1	0.40	20	0.23	909	4	0.01	2	440	47	0.80	<2	2	1970
133906		10	<1	0.74	20	0.96	1645	19	0.01	5	1610	48	2.00	<2	11	1895
133907		10	<1	0.99	20	0.74	1340	21	<0.01	1	1290	25	1.42	<2	7	3070
133908		<10	<1	0.05	10	0.24	683	13	0.05	30	1370	12	1.39	12	2	107





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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089246

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
133869	0.01	0.02	<10	<10	135	<10	187
133870	0.01	0.13	<10	<10	364	<10	212
133871	0.04	<10	<10	<10	23	10	59
133872	0.10	<10	<10	<10	262	<10	132
133873	0.13	<10	<10	<10	310	<10	153
133874	0.07	<10	<10	<10	236	<10	113
133875	0.07	<10	<10	<10	232	<10	115
133876	0.06	<10	<10	<10	252	<10	108
133877	0.06	<10	<10	<10	320	<10	100
133878	0.07	<10	<10	<10	249	<10	160
133879	0.07	<10	<10	<10	447	<10	98
133880	0.02	<10	<10	<10	210	<10	151
133881	0.09	<10	<10	<10	298	<10	134
133882	0.12	<10	<10	<10	281	<10	172
133883	0.26	<10	<10	<10	357	<10	146
133884	0.01	<10	<10	<10	7	<10	22
133885	0.26	<10	<10	<10	283	<10	163
133886	0.16	<10	<10	<10	280	<10	168
133887	0.30	10	<10	<10	357	<10	138
133888	0.27	10	<10	<10	381	<10	116
133889	0.26	<10	<10	<10	393	<10	104
133890	0.18	<10	<10	<10	277	<10	150
133891	0.25	<10	<10	<10	351	<10	150
133892	0.29	<10	<10	<10	403	<10	118
133893	0.30	<10	<10	<10	409	<10	160
133894	0.30	<10	<10	<10	441	<10	172
133895	<0.01	<10	<10	<10	3	<10	<2
133896	0.33	<10	<10	<10	442	<10	112
133897	0.32	<10	<10	<10	455	<10	122
133898	0.34	10	<10	<10	395	<10	116
133899	0.35	<10	<10	<10	266	<10	495
133900	0.33	<10	<10	<10	255	<10	522
133901	0.23	<10	<10	<10	298	<10	353
133902	0.13	<10	<10	<10	207	<10	503
133903	<0.01	<10	<10	<10	3	<10	3
133904	0.01	10	<10	<10	23	<10	91
133905	<0.01	<10	<10	<10	17	<10	56
133906	0.15	<10	<10	<10	176	<10	255
133907	0.11	<10	<10	<10	138	<10	192
133908	0.05	<10	<10	<10	34	<10	95



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## CERTIFICATE OF ANALYSIS VA05089246

Sample Description	Method	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	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	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
133909		9.04	0.013	0.4	1.08	21	10	80	1.2	<2	2.54	<0.5	5	2	123	2.22
133910		5.70	0.109	3.3	1.52	17	10	40	0.9	<2	2.68	1.6	26	8	1390	4.49
133911		5.26	0.058	1.5	1.29	20	10	80	0.8	<2	3.18	3.7	16	2	701	3.72
133912		8.18	0.019	1.1	2.03	24	20	70	1.3	<2	7.43	0.7	7	11	457	6.97
133913		11.74	0.058	1.7	2.73	25	20	730	1.2	<2	7.08	0.7	6	15	790	6.55
133914		9.82	0.094	3.5	1.74	31	10	60	1.2	<2	2.98	1.1	21	2	1495	4.91
133915		<0.02	0.086	3.2	1.75	26	10	50	1.2	<2	3.01	0.9	20	3	1415	5.00
133916		8.60	0.093	3.2	1.47	19	10	610	0.8	<2	3.96	1.7	16	13	1305	5.56
133917		8.42	0.347	11.0	1.98	32	10	130	0.8	<2	3.99	4.4	22	6	4540	5.50
133918		12.70	0.047	2.2	3.82	30	20	1020	1.3	<2	7.89	9.4	14	8	838	6.82
133919		11.08	0.042	2.6	3.86	33	10	560	1.2	<2	8.38	23.1	26	13	1650	7.50
133920		10.90	0.072	3.2	3.87	32	<10	530	1.1	<2	8.28	21.8	19	6	1150	7.35
133921		10.26	0.072	2.7	2.48	16	10	620	1.0	<2	6.17	4.0	9	5	1085	5.19
133922		11.32	0.008	0.4	5.15	31	10	450	1.5	<2	9.09	6.3	13	23	38	7.43
133923		6.10	0.006	0.4	1.86	27	10	830	0.8	<2	5.95	0.8	7	3	176	4.94
133924		8.88	0.011	0.4	2.10	39	10	800	0.8	<2	5.35	2.0	8	28	144	5.53
133925		1.02	<0.005	<0.2	0.05	6	<10	10	<0.5	<2	>25.0	<0.5	<1	4	3	0.07
133926		7.32	0.028	1.0	1.30	20	10	440	0.6	<2	3.70	3.3	13	4	394	3.97
133927		9.28	0.011	0.8	1.08	15	10	290	0.7	<2	3.31	3.0	10	2	282	3.50
133928		5.36	<0.005	0.9	1.94	12	10	590	1.0	2	3.43	2.9	8	12	158	4.16
133929		6.30	0.005	1.6	1.59	22	10	250	0.9	2	3.33	1.0	9	2	176	4.03
133930		0.10	0.016	2.8	0.35	12	<10	110	<0.5	<2	1.12	<0.5	1	8	4510	1.20
133931		10.90	0.031	1.5	1.44	26	<10	30	0.5	<2	4.45	1.2	18	4	721	6.06
133932		11.82	0.025	1.3	1.82	18	10	50	0.6	<2	7.03	4.1	12	11	503	4.89
133933		9.70	0.021	1.3	1.65	18	10	40	0.5	<2	7.16	5.0	13	3	555	4.27
133934		9.46	0.013	0.7	1.78	20	10	40	0.7	<2	7.50	3.0	19	3	356	4.76
133935		10.74	0.019	1.3	1.69	32	10	30	0.6	<2	5.86	2.4	20	5	580	5.43
133936		<0.02	0.018	1.4	1.68	30	10	30	0.6	<2	5.73	2.4	18	3	559	5.32
133937		9.40	0.027	1.1	1.64	26	10	30	0.6	<2	6.00	2.2	22	3	474	5.28
133938		10.26	0.015	0.9	1.31	25	10	40	0.5	<2	6.23	2.1	20	11	403	4.32
133939		10.06	0.062	2.6	1.08	60	10	30	0.5	<2	5.97	1.1	22	2	611	3.95
133940		9.06	0.061	3.4	1.31	19	10	30	0.5	<2	5.41	2.7	35	3	1350	5.25
133941		11.78	0.060	3.8	1.29	30	<10	30	<0.5	<2	5.66	3.8	33	11	1410	5.24
133942		10.28	0.019	1.7	1.76	13	10	40	<0.5	<2	6.01	2.2	14	1	645	4.93
133943		9.98	0.129	6.2	1.47	17	10	40	<0.5	<2	6.95	5.5	13	1	1775	4.12
133944		10.58	0.153	4.6	1.81	23	10	50	<0.5	<2	8.16	5.7	20	6	1810	5.01
133945		0.98	<0.005	0.2	0.04	3	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	6	0.06
133946		9.38	0.072	2.7	1.56	33	10	40	0.5	<2	6.75	2.5	28	3	1295	4.64
133947		8.12	0.077	1.8	1.59	30	10	40	0.6	<2	6.70	3.1	19	2	1060	4.36
133948		7.36	0.083	2.1	1.51	19	10	40	0.6	<2	6.70	1.3	17	2	1165	4.29



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Finalized Date: 24-OCT-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089246

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
133909		10	<1	0.78	10	0.33	603	20	0.01	2	650	15	1.52	<2	2	1620
133910		10	<1	1.22	10	1.06	1460	11	<0.01	4	1300	11	2.21	<2	6	1825
133911		10	<1	1.07	10	0.87	1670	18	<0.01	3	1380	23	1.09	<2	5	1685
133912		10	<1	1.46	10	1.36	3220	23	0.01	4	710	19	1.70	<2	9	3340
133913		10	<1	1.57	10	1.46	3330	4	0.14	7	1350	19	0.40	<2	13	3370
133914		10	<1	1.14	10	0.95	1550	4	0.08	4	1180	16	1.74	<2	7	2010
133915		10	<1	1.12	10	0.90	1525	4	0.09	4	1140	13	1.82	<2	7	1915
133916		10	<1	1.31	10	1.12	2070	11	<0.01	3	1500	11	0.39	<2	9	3400
133917		10	<1	1.54	20	1.30	2240	4	0.04	8	2140	10	0.80	<2	12	4070
133918		10	<1	1.95	50	1.69	3510	1	0.62	6	2060	21	0.27	<2	14	2950
133919		10	<1	2.04	20	1.78	3850	34	0.61	8	2050	15	0.43	<2	12	2220
133920		10	<1	1.45	20	1.30	3260	529	1.10	7	2120	14	0.42	<2	12	2750
133921		10	<1	1.48	20	1.29	2920	64	0.42	6	1800	10	0.28	<2	12	2620
133922		20	<1	2.40	20	2.53	4810	<1	1.54	9	2630	17	0.12	<2	20	2030
133923		10	<1	1.60	20	1.49	3100	2	0.07	8	2260	14	0.17	<2	13	2720
133924		10	<1	2.23	20	2.08	3440	2	0.01	18	3220	9	0.18	<2	19	2200
133925		<10	<1	0.02	<10	1.98	38	<1	<0.01	<1	50	<2	<0.01	<2	<1	5340
133926		10	<1	1.26	20	1.12	2300	3	<0.01	6	1960	13	0.39	<2	8	2630
133927		10	<1	0.87	20	0.75	1785	21	<0.01	2	1350	28	0.45	<2	6	2550
133928		10	<1	1.21	20	0.90	2090	37	0.39	4	1440	41	0.46	<2	8	2600
133929		10	<1	1.16	20	0.90	2150	62	0.01	5	1490	137	0.69	<2	9	2120
133930		<10	<1	0.15	<10	0.09	238	418	0.01	<1	360	7	0.63	<2	<1	161
133931		10	<1	1.54	10	1.37	1700	365	0.01	6	2210	10	4.29	<2	10	1615
133932		10	2	1.34	10	1.30	2770	4	0.02	5	1910	16	2.36	<2	12	1520
133933		10	1	1.23	10	1.20	2500	2	0.02	5	1600	11	2.87	<2	11	1725
133934		10	2	1.19	10	1.37	2720	3	0.02	5	1940	21	3.28	<2	13	1885
133935		10	1	1.36	10	1.52	2430	27	0.02	5	1880	16	4.72	2	10	1925
133936		10	1	1.36	10	1.51	2420	27	0.02	6	1890	16	4.56	<2	10	1910
133937		10	<1	1.38	20	1.38	2490	100	0.02	7	1870	26	3.80	<2	11	1870
133938		10	2	1.22	10	1.18	2330	7	0.03	5	1660	17	3.69	<2	10	1845
133939		10	1	1.12	10	1.17	1720	13	0.01	4	1990	25	5.18	<2	9	1850
133940		10	2	1.10	10	1.16	1835	24	0.01	8	1810	13	5.57	<2	10	1910
133941		10	<1	0.85	10	1.03	1760	10	0.01	7	1580	16	5.65	<2	9	1935
133942		10	<1	1.13	10	1.24	2530	1	0.02	5	1350	16	3.77	<2	10	1950
133943		10	2	1.00	10	1.03	2230	1	0.03	6	1760	12	3.53	<2	10	2170
133944		10	1	1.27	10	1.20	2590	2	0.03	5	1730	9	3.79	<2	12	1970
133945		<10	2	0.01	<10	1.60	43	<1	<0.01	<1	50	3	<0.01	<2	<1	5370
133946		10	2	1.15	10	1.16	2160	2	0.02	6	1780	7	3.42	<2	11	2120
133947		10	1	1.32	10	1.36	2300	2	0.02	5	1870	12	3.26	<2	10	2070
133948		10	1	1.24	10	1.30	2200	1	0.02	7	2020	10	3.13	<2	10	2310



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Finalized Date: 24-OCT-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089246

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
133909		0.03	<10	<10	76	<10	58
133910		0.12	<10	<10	257	<10	224
133911		0.08	<10	<10	199	<10	414
133912		0.28	<10	<10	631	<10	174
133913		0.32	<10	<10	698	<10	207
133914		0.25	<10	<10	264	<10	182
133915		0.25	<10	<10	266	<10	161
133916		0.29	<10	<10	341	<10	302
133917		0.30	<10	<10	421	<10	529
133918		0.32	<10	10	720	<10	1270
133919		0.30	10	10	1090	<10	2480
133920		0.27	<10	10	983	<10	2590
133921		0.28	<10	<10	519	<10	516
133922		0.33	<10	10	716	<10	1025
133923		0.34	<10	<10	420	10	206
133924		0.32	<10	<10	476	10	411
133925		<0.01	<10	<10	5	<10	4
133926		0.11	<10	<10	277	<10	400
133927		0.06	<10	<10	198	<10	307
133928		0.22	<10	<10	252	<10	328
133929		0.22	<10	<10	257	<10	142
133930		0.01	<10	<10	7	<10	22
133931		0.18	<10	<10	270	<10	204
133932		0.28	<10	<10	358	<10	451
133933		0.26	<10	<10	319	<10	534
133934		0.27	<10	<10	344	<10	354
133935		0.24	<10	<10	284	<10	314
133936		0.24	<10	<10	284	<10	314
133937		0.25	<10	<10	311	<10	295
133938		0.19	<10	<10	261	<10	280
133939		0.10	<10	<10	205	<10	169
133940		0.23	<10	<10	262	<10	323
133941		0.22	<10	<10	265	<10	395
133942		0.25	<10	<10	367	<10	281
133943		0.26	<10	<10	382	<10	589
133944		0.28	<10	<10	470	<10	617
133945		<0.01	<10	<10	3	<10	2
133946		0.25	<10	<10	376	<10	313
133947		0.25	<10	<10	344	<10	372
133948		0.24	<10	<10	295	<10	222



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## CERTIFICATE OF ANALYSIS VA05089246

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	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
133949		7.84	0.019	0.5	2.03	15	10	160	0.6	<2	4.91	1.5	18	2	130	4.71
133950		0.10	0.447	0.5	1.04	6930	50	20	<0.5	19	5.75	<0.5	170	10	78	3.60
133951		9.54	0.038	1.3	2.12	21	10	140	0.7	<2	5.01	2.1	20	2	368	4.84
133952		9.62	0.016	0.4	2.27	27	10	140	0.7	<2	5.05	<0.5	17	2	75	4.99



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## CERTIFICATE OF ANALYSIS VA05089246

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	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	Sc ppm 1	Sr ppm 1
133949		10	1	1.23	10	1.48	2160	2	0.01	5	1660	6	1.80	2	14	1165
133950		<10	<1	0.04	10	0.24	656	13	0.06	31	1210	13	1.34	12	1	101
133951		10	1	1.03	10	1.60	2190	<1	0.01	6	1680	15	1.98	2	13	844
133952		10	2	1.19	10	1.72	2210	<1	0.01	5	1710	14	1.95	<2	15	785



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## CERTIFICATE OF ANALYSIS VA05089246

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
133949		0.25	<10	<10	195	<10	268
133950		0.04	<10	<10	31	<10	90
133951		0.25	<10	<10	212	<10	316
133952		0.26	<10	<10	203	<10	202



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Finalized Date: 13-NOV-2005

This copy reported on 14-NOV-2005

Account: SPEGOL

## CERTIFICATE VA05092159

Project: Galore Creek

P.O. No.:

This report is for 71 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 21-OCT-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSSEL

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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:





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## CERTIFICATE OF ANALYSIS VA05092159

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
139001		8.48	0.176		7.2	1.54	25	10	120	0.9	<2	7.27	8.3	20	2	2540
139002		10.32	0.066		3.3	2.09	34	20	140	1.1	<2	7.04	4.4	34	11	621
139003		10.26	0.054		3.4	1.85	20	10	140	0.8	<2	7.27	5.0	13	8	604
139004		9.78	0.166		7.6	1.54	26	20	100	0.8	<2	6.37	8.9	17	5	2620
139005		0.84	<0.005		<0.2	0.05	3	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	24
139006		9.94	0.089		5.7	1.40	24	10	90	0.6	<2	5.92	3.3	15	6	1935
139007		9.70	0.116		3.4	1.48	16	10	90	0.7	<2	4.61	1.7	10	3	433
139008		9.90	0.036		2.0	1.69	41	20	100	0.9	<2	4.69	1.0	33	7	438
139009		9.92	0.032		1.6	1.54	19	20	140	0.9	<2	3.76	1.3	24	7	594
139010		7.90	0.042		1.5	1.55	18	20	120	0.8	<2	5.13	<0.5	17	6	413
139011		0.10	1.600		0.6	1.16	2530	30	20	<0.5	31	6.01	0.5	76	25	129
139012		8.60	0.113		3.1	1.24	19	20	50	0.6	<2	5.70	0.5	11	6	241
139013		8.38	0.071		2.4	1.32	36	10	30	0.8	<2	4.36	<0.5	22	7	553
139014		8.50	0.033		1.3	1.60	42	10	40	0.6	<2	2.98	0.8	28	2	473
139015		8.30	0.020		1.0	1.64	36	10	30	0.6	<2	2.86	<0.5	23	2	560
139016		11.02	0.029		1.0	1.70	57	10	30	0.8	<2	2.50	1.0	33	2	605
139017		<0.02	0.031		1.0	1.70	57	10	30	0.8	<2	2.46	0.8	32	2	573
139018		10.98	0.009		1.2	1.73	18	10	30	0.6	<2	3.95	3.7	19	24	382
139019		9.92	0.044		1.6	1.60	27	20	40	0.8	<2	3.00	4.7	26	10	759
139020		9.66	0.060		2.8	2.10	28	20	50	0.8	<2	2.84	8.1	25	7	737
139021		9.76	0.058		2.5	1.93	27	20	40	0.9	<2	3.12	6.4	36	14	1035
139022		9.76	0.047		1.8	1.83	21	10	70	0.7	<2	4.39	3.5	30	9	457
139023		7.72	0.092		2.3	1.98	19	10	80	0.6	<2	2.61	6.3	23	12	618
139024		<0.02	0.091		2.2	2.09	17	<10	70	0.6	<2	2.77	6.4	24	12	603
139025		7.28	0.146		2.6	2.63	26	<10	100	0.7	<2	4.79	1.7	22	31	262
139026		8.68	0.036		1.2	1.55	20	10	70	0.8	<2	3.46	<0.5	35	2	471
139027		8.92	0.018		<0.2	1.66	17	10	120	0.8	<2	5.08	<0.5	14	2	227
139028		0.10	0.025		2.5	0.38	5	<10	110	<0.5	<2	1.16	<0.5	2	9	4460
139029		9.10	0.041		<0.2	1.96	12	20	350	0.7	<2	4.78	1.0	13	2	244
139030		9.70	0.012		<0.2	2.75	24	10	270	0.9	<2	6.67	4.8	14	15	91
139031		9.42	0.006		<0.2	2.90	30	10	200	0.8	<2	6.93	<0.5	19	18	94
139032		9.58	0.014		<0.2	2.53	14	10	430	1.0	<2	6.63	<0.5	15	16	90
139033		7.96	0.011		<0.2	1.52	11	10	180	0.9	<2	4.57	<0.5	10	2	197
139034		7.86	0.034		<0.2	1.72	4	10	660	0.9	<2	4.89	0.5	9	2	218
139035		10.64	0.029		<0.2	2.63	13	10	410	1.2	<2	6.21	2.9	14	17	76
139036		7.70	0.071		<0.2	2.34	31	10	140	1.1	<2	5.17	0.5	33	15	254
139037		1.10	<0.005		<0.2	0.09	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	1	5
139038		7.08	0.020		<0.2	1.93	12	10	160	1.0	<2	4.70	<0.5	10	2	198
139039		6.14	0.026		<0.2	2.63	14	10	560	1.1	<2	5.50	<0.5	13	17	224
139040		10.82	0.009		<0.2	1.42	12	10	660	0.8	<2	3.32	0.6	6	1	92



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## CERTIFICATE OF ANALYSIS VA05092159

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	
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
139001		4.83	10	<1	1.32	10	1.14	2610	70	0.03	5	2010	370	3.08	<2	11
139002		5.11	10	1	1.36	10	1.02	2440	11	0.04	10	1450	309	2.13	<2	10
139003		4.44	10	1	0.93	10	0.68	2090	5	0.03	8	1230	333	2.18	<2	9
139004		4.25	10	<1	0.89	10	0.48	1645	3	0.04	5	1160	293	2.93	<2	7
139005		0.05	<10	1	0.01	<10	1.80	26	<1	<0.01	<1	40	4	<0.01	<2	<1
139006		4.10	10	<1	0.89	10	0.57	1545	31	0.04	4	1430	154	2.84	<2	8
139007		3.16	10	<1	1.04	<10	0.47	1345	613	0.04	4	900	499	2.67	<2	3
139008		4.11	10	<1	1.22	10	0.58	1420	20	0.04	6	1310	138	2.69	<2	6
139009		3.49	<10	<1	1.11	10	0.64	1295	11	0.04	7	1350	75	1.51	4	5
139010		3.49	10	<1	1.14	10	0.64	1750	100	0.04	5	1140	45	1.70	2	5
139011		3.38	<10	<1	0.05	10	0.28	813	9	0.08	29	1140	13	0.67	9	2
139012		3.47	10	2	1.00	10	0.61	1750	14	0.04	8	1130	94	1.92	6	6
139013		4.09	10	<1	1.10	10	0.67	1090	5	0.04	7	1290	187	2.88	6	4
139014		3.57	10	1	1.21	10	0.87	1235	3	0.04	3	1210	176	2.30	3	5
139015		3.59	10	1	1.20	10	0.85	1035	1	0.05	3	1260	59	2.85	3	4
139016		3.70	10	<1	1.31	10	0.91	1025	55	0.05	4	1310	92	2.64	4	4
139017		3.57	10	1	1.30	10	0.89	1000	49	0.05	4	1280	91	2.58	2	4
139018		4.17	10	<1	1.40	<10	1.13	1325	52	0.05	11	1290	693	3.78	3	7
139019		3.24	10	<1	1.21	10	0.77	979	33	0.04	8	1540	700	2.44	3	4
139020		3.32	10	<1	1.70	10	1.29	1420	378	0.04	9	1700	1070	1.82	2	4
139021		3.98	10	<1	1.62	10	1.10	1485	40	0.04	11	1720	590	2.00	3	9
139022		4.71	10	<1	1.72	10	1.53	2010	354	0.04	7	1710	974	2.79	<2	11
139023		4.76	10	<1	2.05	10	1.77	1605	219	0.04	8	1580	946	2.64	2	9
139024		5.17	10	<1	2.00	<10	1.81	1670	239	0.05	13	1670	970	2.80	4	10
139025		4.55	10	1	2.66	10	2.70	2610	1175	0.06	18	2120	477	1.82	4	14
139026		3.49	10	1	1.26	10	0.83	1100	96	0.04	4	1320	47	1.68	<2	5
139027		3.42	10	<1	1.26	10	0.83	1410	18	0.06	3	1330	25	1.41	<2	6
139028		1.20	<10	<1	0.16	<10	0.09	239	407	0.04	1	330	10	0.64	3	1
139029		3.59	10	<1	1.14	10	0.86	1675	12	0.06	3	1270	85	1.02	2	8
139030		5.02	10	1	1.84	10	1.56	2550	12	0.09	16	1550	630	1.13	<2	22
139031		5.02	10	<1	1.92	10	1.60	2480	1	0.14	15	1620	52	1.14	<2	26
139032		4.79	10	1	1.90	10	1.58	2420	2	0.06	16	1530	35	0.86	<2	22
139033		3.34	10	<1	1.27	20	0.74	1745	1	0.06	1	1220	18	0.72	<2	6
139034		3.29	10	<1	1.34	20	0.82	1845	1	0.07	5	1210	78	0.58	<2	7
139035		4.87	10	<1	2.06	10	1.81	2630	1	0.05	16	1550	730	0.46	<2	22
139036		4.41	10	<1	2.12	10	1.66	2430	1	0.06	17	1700	200	1.16	<2	16
139037		0.09	<10	<1	0.05	<10	1.82	61	<1	0.02	<1	60	13	<0.01	<2	<1
139038		3.18	10	<1	1.66	10	1.02	1815	1	0.06	2	1390	27	0.87	<2	8
139039		4.56	10	<1	2.39	10	1.87	2640	1	0.06	15	1580	279	0.73	<2	21
139040		1.83	10	<1	0.98	20	0.33	930	<1	0.16	<1	460	94	0.52	2	3



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## CERTIFICATE OF ANALYSIS VA05092159

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		1	0.01	10	10	1	10	2
139001		1785	0.11	<10	<10	364	<10	643
139002		1455	0.23	<10	<10	341	<10	345
139003		1785	0.20	<10	<10	314	<10	358
139004		2060	0.09	<10	<10	319	<10	634
139005		5310	<0.01	<10	<10	3	<10	5
139006		1820	0.07	<10	<10	250	<10	250
139007		1870	0.06	<10	<10	174	<10	159
139008		1955	0.07	<10	<10	237	<10	121
139009		2190	0.04	<10	<10	131	<10	132
139010		1990	0.07	<10	<10	182	<10	65
139011		102	0.05	<10	<10	27	10	62
139012		2090	0.08	<10	<10	208	<10	88
139013		2240	0.05	<10	<10	126	<10	67
139014		1735	0.06	<10	<10	149	<10	95
139015		2020	0.07	<10	<10	127	<10	79
139016		1805	0.07	<10	<10	118	<10	115
139017		1780	0.07	<10	<10	116	<10	114
139018		1775	0.11	<10	<10	188	<10	336
139019		1885	0.06	<10	<10	105	<10	429
139020		1755	0.08	<10	<10	102	<10	725
139021		1490	0.09	<10	<10	141	<10	553
139022		1305	0.12	<10	<10	199	<10	384
139023		1350	0.13	<10	<10	152	<10	592
139024		1445	0.14	<10	<10	162	<10	580
139025		1710	0.17	<10	<10	243	<10	300
139026		1810	0.06	<10	<10	140	<10	112
139027		1785	0.12	<10	<10	196	<10	70
139028		156	0.01	<10	<10	7	<10	25
139029		1540	0.23	<10	<10	245	<10	120
139030		1135	0.27	<10	<10	254	<10	415
139031		1080	0.30	<10	<10	227	<10	121
139032		1180	0.25	<10	<10	232	<10	108
139033		1850	0.10	<10	<10	188	<10	59
139034		1620	0.15	<10	<10	212	<10	83
139035		996	0.25	<10	<10	215	<10	358
139036		1445	0.16	<10	<10	180	<10	136
139037		5110	<0.01	<10	<10	5	<10	5
139038		1870	0.15	<10	<10	184	<10	82
139039		1290	0.26	<10	<10	249	10	156
139040		1490	0.04	<10	<10	79	<10	47



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## CERTIFICATE OF ANALYSIS VA05092159

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
139041		7.70	0.008		<0.2	1.21	7	10	590	0.7	<2	2.96	<0.5	3	2	84
139042		9.34	0.023		0.2	2.40	14	10	320	0.8	<2	5.54	<0.5	14	10	132
139043		9.98	0.017		<0.2	2.37	10	10	170	0.8	<2	5.38	0.6	19	15	230
139044		5.00	0.066		<0.2	2.70	22	10	280	0.9	<2	4.92	3.0	20	16	218
139045		<0.02	0.067		<0.2	2.62	12	10	250	0.8	<2	4.79	3.4	19	15	208
139046		10.28	0.025		<0.2	2.34	20	10	120	0.9	<2	5.78	2.5	19	14	198
139047		4.98	0.034		1.5	2.44	29	10	80	0.9	3	5.49	4.6	25	15	273
139048		9.98	0.040		0.6	2.23	26	10	260	0.8	2	6.27	2.7	17	15	318
139049		9.84	>10.0	50.6	71.6	1.49	924	20	30	0.9	<2	5.77	23.2	26	5	3330
139050		0.10	0.034		2.8	0.38	4	<10	110	<0.5	<2	1.17	<0.5	2	9	4470
139051		11.06	0.699		1.1	1.53	133	10	60	0.7	<2	5.42	2.7	23	11	296
139052		10.84	2.79		7.4	1.07	121	10	60	0.6	4	7.30	12.8	18	5	485
139053		10.62	0.131		<0.2	1.03	25	10	50	0.5	<2	4.36	2.9	6	1	130
139054		9.24	0.137		<0.2	0.95	7	10	130	0.5	<2	3.40	1.5	4	1	84
139055		10.16	0.013		<0.2	0.82	6	10	70	<0.5	<2	3.78	0.9	4	1	81
139056		1.04	0.021		<0.2	0.65	6	<10	270	<0.5	<2	22.1	<0.5	2	1	50
139057		9.08	0.038		<0.2	1.24	11	10	100	0.6	<2	3.35	0.7	6	2	115
139058		9.58	0.018		<0.2	1.61	14	10	100	0.8	<2	3.29	<0.5	5	2	101
139059		8.76	0.025		<0.2	1.95	12	10	150	0.8	<2	2.94	<0.5	5	2	82
139060		11.12	0.016		<0.2	2.66	18	<10	110	1.0	<2	6.53	1.1	19	16	165
139061		10.14	0.026		<0.2	3.23	10	<10	270	1.1	<2	6.28	<0.5	18	17	48
139062		9.38	0.006		<0.2	3.38	13	<10	190	1.0	<2	5.86	<0.5	20	17	66
139063		8.78	0.087		<0.2	3.68	14	<10	160	0.9	<2	5.09	<0.5	23	18	218
139064		9.36	0.016		<0.2	3.07	13	10	150	1.2	<2	6.34	<0.5	20	15	396
139065		<0.02	0.013		<0.2	3.34	16	<10	160	1.1	<2	6.80	<0.5	19	15	393
139066		11.26	0.075		<0.2	2.35	11	<10	120	0.7	<2	8.47	<0.5	11	17	71
139067		10.50	0.017		<0.2	2.10	8	<10	150	0.7	<2	6.29	<0.5	12	16	311
139068		8.98	0.010		<0.2	1.71	14	<10	250	0.5	<2	5.36	<0.5	14	20	365
139069		0.10	0.461		0.3	1.10	7150	50	20	<0.5	19	5.94	<0.5	174	11	79
139070		10.10	0.005		<0.2	2.04	14	<10	140	0.5	<2	5.98	<0.5	17	25	282
139071		10.98	0.024		<0.2	2.79	17	<10	130	0.8	<2	6.80	<0.5	12	16	71



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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
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
		0.01	10	1	0.01	10	0.01	5	0.01	10	10	2	0.01	2	1	
139041		1.69	<10	<1	0.91	10	0.25	765	1	0.08	<1	410	24	0.61	<2	2
139042		4.28	10	<1	2.05	20	1.52	2320	<1	0.05	9	1400	246	1.05	<2	16
139043		4.46	10	<1	2.18	10	1.84	2440	1	0.05	15	1540	39	1.07	<2	19
139044		4.91	10	1	2.39	10	2.25	2700	17	0.05	16	1590	828	1.21	<2	19
139045		4.75	10	<1	2.25	10	2.20	2620	18	0.05	12	1540	754	1.17	<2	18
139046		4.59	10	<1	1.98	10	1.85	2650	10	0.05	15	1510	326	1.76	<2	18
139047		4.81	10	<1	2.02	10	1.88	3010	84	0.05	17	1580	779	2.23	2	20
139048		4.67	10	<1	1.74	10	1.86	3500	18	0.06	12	1510	553	2.22	2	19
139049		5.03	<10	22	1.00	10	1.33	3510	87	0.04	9	1360	799	5.06	441	11
139050		1.22	<10	<1	0.16	<10	0.09	241	420	0.04	2	340	8	0.65	4	1
139051		4.75	<10	2	1.24	10	1.60	3120	28	0.05	13	1490	684	2.52	2	18
139052		3.96	<10	1	0.75	10	0.99	2580	88	0.05	7	1160	1620	5.20	10	11
139053		2.23	<10	<1	0.74	10	0.36	1395	14	0.04	<1	490	505	2.74	<2	3
139054		1.93	<10	<1	0.72	10	0.34	1140	10	0.04	<1	460	177	1.22	<2	2
139055		1.82	<10	<1	0.63	10	0.30	1205	18	0.05	<1	490	158	2.01	<2	2
139056		0.93	<10	<1	0.44	<10	1.40	480	1	0.04	<1	260	23	0.6	<2	2
139057		2.11	10	<1	0.93	10	0.39	1115	1	0.06	<1	500	53	1.28	2	3
139058		2.25	10	<1	0.96	10	0.42	982	1	0.32	2	530	100	1.60	<2	3
139059		2.22	10	<1	0.91	10	0.42	920	2	0.62	1	510	86	1.44	<2	3
139060		4.86	10	<1	2.20	10	1.92	3380	6	0.06	17	1520	700	2.40	<2	20
139061		4.96	10	1	2.72	10	2.36	3510	5	0.07	15	1590	119	1.36	<2	23
139062		4.89	10	<1	2.62	10	2.20	3130	1	0.28	13	1520	29	0.93	<2	23
139063		4.60	10	<1	2.52	10	2.19	2920	1	0.70	16	1580	22	0.99	<2	24
139064		4.24	10	<1	2.16	10	1.95	2480	1	0.33	13	1460	36	1.28	<2	22
139065		4.62	10	<1	2.17	10	2.12	2710	<1	0.39	14	1600	47	1.36	<2	24
139066		4.87	10	<1	1.50	10	1.54	2510	1	0.25	12	1450	55	1.87	<2	18
139067		4.07	10	<1	1.64	10	1.31	2290	3	0.10	9	1330	79	1.37	<2	12
139068		3.49	10	<1	1.50	10	1.08	2010	6	0.06	10	1260	107	1.38	<2	13
139069		3.62	<10	<1	0.06	10	0.23	642	12	0.08	31	1250	12	1.38	13	2
139070		4.17	10	1	1.78	10	1.46	2220	1	0.07	15	1320	35	1.54	<2	17
139071		4.21	10	<1	1.40	10	1.19	2050	<1	0.87	10	1230	82	1.70	<2	15



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Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05092159

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		1	0.01	10	10	1	10	2
139041		1470	0.04	<10	<10	85	<10	28
139042		1395	0.25	<10	<10	265	<10	118
139043		1310	0.21	<10	<10	231	<10	168
139044		1220	0.20	<10	<10	206	<10	379
139045		1180	0.18	<10	<10	190	<10	362
139046		1180	0.17	<10	<10	196	<10	296
139047		1440	0.15	<10	<10	198	<10	454
139048		1120	0.14	<10	<10	201	<10	317
139049		1465	0.03	<10	<10	144	<10	1450
139050		152	0.01	<10	<10	6	<10	25
139051		1280	0.06	<10	<10	157	<10	277
139052		2340	0.02	<10	<10	106	<10	913
139053		1865	0.01	<10	<10	70	<10	203
139054		1310	0.01	<10	<10	76	<10	116
139055		1810	0.01	<10	<10	40	<10	85
139056		3640	0.01	<10	<10	42	<10	23
139057		1625	0.03	<10	<10	93	<10	61
139058		1700	0.05	<10	<10	100	<10	57
139059		1490	0.08	<10	<10	112	<10	45
139060		1635	0.22	<10	<10	192	<10	184
139061		1175	0.26	<10	<10	212	<10	126
139062		728	0.27	<10	<10	232	<10	122
139063		887	0.27	<10	<10	211	<10	114
139064		694	0.17	<10	<10	170	<10	100
139065		749	0.17	<10	<10	168	<10	102
139066		1655	0.16	<10	<10	333	<10	77
139067		1645	0.21	<10	<10	296	<10	71
139068		1345	0.24	<10	<10	220	<10	58
139069		104	0.05	<10	<10	34	<10	92
139070		1535	0.25	<10	<10	230	<10	105
139071		1930	0.22	<10	<10	217	<10	91



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Page: 1

Finalized Date: 31-OCT-2005

Account: SPEGOL

## CERTIFICATE VA05089722

Project: Galore Creek

P.O. No.:

This report is for 64 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSSEL

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Cu-AA46	Ore grade Cu - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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:



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Total # Pages: 3 (A - C)  
Finalized Date: 31-OCT-2005  
Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089722

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	ME-ICP41
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
131959		6.82	0.453	3.2	1.38	86	10	860	1.5	<2	5.42	1.9	28	7	5330	5.49
131960		12.30	0.039	0.7	0.97	72	10	1230	2.2	<2	0.43	2.6	23	5	503	7.49
131961		5.04	0.027	0.2	1.42	13	10	1660	3.1	<2	0.81	1.3	22	10	257	7.12
131962		4.18	0.020	0.3	1.02	28	10	1320	1.5	<2	0.52	1.5	34	39	267	6.67
131963		10.32	0.025	0.2	0.88	40	10	1920	1.6	<2	0.27	<0.5	13	8	174	7.22
131964		4.62	0.359	0.7	0.90	201	10	2130	1.1	<2	0.18	<0.5	8	6	101	5.13
131965		10.04	2.26	1.1	1.02	148	10	90	0.6	<2	0.16	1.2	6	11	680	4.23
131966		10.28	0.139	1.2	1.68	227	10	80	1.0	<2	0.67	1.4	6	7	1015	5.10
131967		11.30	0.025	0.3	1.33	46	10	40	0.9	<2	1.18	1.6	13	9	1255	4.00
131968		0.76	0.006	<0.2	0.09	13	<10	60	<0.5	<2	>25.0	<0.5	<1	<1	46	0.13
131969		11.68	0.016	<0.2	0.93	11	10	320	2.3	<2	0.80	2.0	17	6	354	9.75
131970		4.32	0.018	0.2	1.14	8	10	250	2.8	<2	0.74	8.6	12	5	370	5.65
131971		10.78	0.011	<0.2	1.50	23	20	440	2.1	<2	2.46	4.9	16	1	142	5.34
131972		<0.02	0.018	<0.2	1.53	17	20	420	2.2	<2	2.43	5.0	16	4	144	5.35
131973		9.84	0.015	<0.2	1.45	13	20	620	2.0	<2	3.69	<0.5	11	6	97	5.06
131974		8.32	0.011	<0.2	1.36	11	20	480	1.9	<2	3.13	<0.5	7	4	104	5.20
131975		0.10	0.464	0.3	0.99	6960	40	20	<0.5	19	5.74	<0.5	169	10	77	3.54
131976		10.54	0.011	<0.2	1.08	15	20	240	1.7	<2	2.20	2.3	11	1	185	6.08
131977		10.30	0.010	<0.2	1.72	22	<10	80	2.9	<2	2.13	5.9	27	17	247	7.33
131978		11.20	0.017	<0.2	1.30	31	<10	60	2.4	<2	2.49	0.7	33	14	336	8.08
131979		9.82	0.013	<0.2	1.33	32	<10	70	2.5	<2	2.37	4.4	27	17	288	7.18
131980		10.06	0.012	<0.2	1.79	34	<10	60	2.7	<2	2.28	6.0	27	18	277	7.18
131981		12.18	0.008	<0.2	1.56	19	<10	140	2.6	<2	2.04	1.5	19	24	174	8.18
131982		<0.02	0.010	<0.2	1.57	23	<10	140	2.6	<2	2.06	1.2	18	22	172	8.26
131983		11.30	0.007	<0.2	1.77	19	<10	1010	3.5	<2	2.94	2.3	22	19	93	6.47
131984		10.08	0.014	<0.2	1.70	22	<10	80	3.2	<2	2.47	13.8	24	17	267	6.67
131985		12.02	0.028	<0.2	1.47	43	<10	90	1.7	<2	2.83	3.6	27	18	474	6.17
131986		10.82	0.012	<0.2	1.29	34	<10	320	2.2	<2	3.48	4.7	21	15	193	5.61
131987		10.74	0.014	<0.2	1.30	32	<10	160	2.3	<2	3.68	5.3	27	15	219	5.97
131988		10.02	0.042	<0.2	1.50	76	<10	40	1.5	<2	2.60	1.2	19	7	330	7.18
131989		11.08	0.092	0.5	1.06	157	<10	30	1.6	<2	4.50	<0.5	23	9	388	6.67
131990		1.16	<0.005	<0.2	0.06	<2	<10	40	<0.5	<2	>25.0	<0.5	<1	1	12	0.24
131991		11.38	0.074	0.7	1.13	109	<10	30	1.9	<2	3.50	12.7	27	20	478	7.94
131992		11.96	0.095	0.3	1.14	162	<10	40	1.7	<2	4.01	2.8	21	20	143	6.56
131993		9.80	0.095	0.5	1.25	133	10	30	2.1	<2	3.95	1.5	23	11	209	6.21
131994		9.54	0.105	0.5	1.31	273	10	30	1.6	<2	3.21	3.2	17	15	256	5.79
131995		0.10	0.044	71.9	0.33	72	<10	100	<0.5	<2	0.29	0.7	2	21	>10000	1.44
131996		11.88	0.114	0.7	1.23	404	20	30	1.5	<2	2.31	<0.5	17	5	356	4.43
131997		14.68	0.101	0.5	1.13	310	10	40	1.2	<2	2.40	<0.5	16	9	271	4.69
131998		10.62	0.130	0.6	1.09	240	10	60	1.0	<2	2.18	<0.5	18	4	420	4.59





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Finalized Date: 31-OCT-2005  
Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089722

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	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	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
131959		10	<1	0.80	30	0.58	3070	12	0.03	4	2250	22	0.21	5	11	333
131960		10	1	0.67	60	0.24	1560	22	0.03	5	1040	10	0.33	<2	10	317
131961		10	<1	0.87	80	0.96	1700	5	0.04	7	1840	5	0.18	<2	12	385
131962		10	1	0.70	40	0.28	2550	15	0.02	8	1760	7	0.22	<2	10	367
131963		10	<1	0.65	10	0.25	315	25	0.02	4	1280	8	0.16	<2	9	299
131964		10	1	0.72	10	0.24	382	36	0.02	3	450	9	0.15	<2	8	333
131965		10	<1	0.76	70	0.21	183	459	0.01	3	1620	17	1.32	<2	6	265
131966		10	1	0.93	80	0.40	164	44	0.01	5	2690	117	1.50	7	14	244
131967		<10	1	0.50	80	0.40	492	18	0.02	4	1370	11	2.37	<2	8	204
131968		<10	1	0.02	<10	1.60	32	1	0.01	<1	70	4	<0.01	<2	<1	4470
131969		10	1	0.45	20	0.53	1455	10	0.02	1	130	10	0.69	<2	10	151
131970		10	<1	0.50	90	0.59	1840	2	0.02	3	240	8	0.87	2	9	160
131971		10	<1	0.53	70	0.80	2400	2	0.04	3	740	7	0.78	<2	8	217
131972		10	1	0.55	70	0.80	2400	2	0.04	4	730	5	0.77	3	8	215
131973		10	<1	0.56	30	0.82	2300	2	0.03	2	910	6	0.52	<2	8	241
131974		10	2	0.55	20	0.55	1670	2	0.04	3	190	6	0.64	<2	6	167
131975		<10	<1	0.04	10	0.22	629	12	0.07	31	1210	10	1.28	10	1	94
131976		10	<1	0.54	20	0.46	1705	5	0.03	2	290	9	0.90	<2	4	148
131977		10	1	0.98	30	1.68	4020	1	0.04	14	2600	4	1.98	<2	17	261
131978		10	<1	0.84	50	1.60	2980	9	0.03	14	2760	6	2.68	<2	16	245
131979		10	1	0.87	80	1.55	2330	2	0.03	13	2390	7	2.04	<2	16	297
131980		10	<1	1.12	60	2.06	2270	2	0.03	14	2880	3	2.88	<2	17	309
131981		10	1	1.20	40	1.69	1730	1	0.03	13	3000	2	1.13	<2	15	295
131982		10	1	1.20	40	1.70	1745	1	0.03	13	3050	3	1.14	<2	15	299
131983		10	<1	1.25	50	2.13	3100	<1	0.04	13	2830	4	0.24	<2	15	331
131984		10	2	1.08	80	1.92	2450	3	0.03	11	2660	9	1.82	<2	15	277
131985		10	1	1.03	20	1.74	2470	30	0.03	12	3030	8	1.96	<2	16	258
131986		10	1	0.79	20	1.66	3080	1	0.03	11	2840	2	0.97	<2	15	288
131987		10	1	0.72	30	1.65	3000	1	0.02	10	2700	8	1.07	<2	15	262
131988		10	1	1.30	20	1.86	1410	4	0.02	7	2910	8	3.44	<2	17	256
131989		<10	<1	0.68	20	1.90	1495	14	0.03	9	2780	18	4.58	8	15	241
131990		<10	1	0.03	<10	1.85	70	1	0.02	<1	110	3	<0.01	<2	1	4570
131991		10	2	1.06	70	1.92	1375	1	0.02	15	2970	11	5.54	2	19	236
131992		10	1	1.14	40	2.21	1725	2	0.03	14	2940	7	4.71	<2	16	186
131993		10	<1	0.95	50	1.29	1870	13	0.02	10	2810	14	4.72	2	15	236
131994		10	1	1.10	40	1.37	1680	99	0.02	10	2680	22	4.65	<2	15	277
131995		<10	1	0.21	<10	0.14	224	410	0.04	3	150	155	0.59	152	2	28
131996		10	<1	0.99	10	1.01	1065	37	0.03	6	1420	14	3.89	3	10	98
131997		10	1	0.89	20	1.29	1390	21	0.03	4	1660	13	3.34	<2	9	112
131998		<10	1	0.77	20	1.10	1350	30	0.05	7	1550	19	3.26	<2	8	97



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Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089722

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Cu %
		0.01	10	10	1	10	2	0.01
131959		0.06	<10	<10	334	10	262	
131960		0.03	<10	<10	313	<10	564	
131961		0.07	<10	<10	352	<10	418	
131962		0.02	<10	<10	268	<10	341	
131963		0.03	<10	<10	258	<10	401	
131964		0.03	<10	<10	167	<10	156	
131965		0.02	<10	<10	149	<10	49	
131966		0.02	<10	<10	330	<10	62	
131967		0.01	<10	<10	373	<10	137	
131968		<0.01	<10	<10	11	<10	6	
131969		0.02	<10	<10	257	<10	336	
131970		0.06	<10	<10	193	<10	966	
131971		0.11	<10	<10	251	<10	701	
131972		0.11	<10	<10	251	<10	710	
131973		0.06	<10	<10	264	<10	170	
131974		0.15	<10	<10	289	<10	127	
131975		0.04	<10	<10	31	<10	89	
131976		0.06	<10	<10	197	<10	433	
131977		0.10	<10	<10	265	<10	1105	
131978		0.06	<10	<10	254	<10	323	
131979		0.05	<10	<10	265	<10	714	
131980		0.09	<10	<10	269	<10	894	
131981		0.11	<10	<10	287	<10	319	
131982		0.11	<10	<10	287	<10	312	
131983		0.10	<10	<10	309	<10	536	
131984		0.08	<10	<10	288	<10	1750	
131985		0.07	<10	<10	233	<10	720	
131986		0.06	<10	<10	252	<10	827	
131987		0.05	<10	<10	263	<10	660	
131988		0.08	<10	<10	241	<10	223	
131989		0.02	<10	<10	187	<10	107	
131990		<0.01	<10	<10	9	<10	13	
131991		0.05	<10	<10	207	<10	2040	
131992		0.05	<10	<10	218	<10	521	
131993		0.03	<10	<10	191	<10	257	
131994		0.05	<10	<10	243	<10	422	
131995		0.05	<10	<10	11	<10	79	1.16
131996		0.03	<10	<10	169	<10	67	
131997		0.04	<10	<10	134	<10	99	
131998		0.02	<10	<10	117	<10	79	



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#2300 - 200 GRANVILLE STREET

VANCOUVER BC V6C 1S4

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Finalized Date: 31-OCT-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089722

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	ME-ICP41
		Recvd 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 %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
131999		12.36	0.097	0.8	1.23	216	10	40	1.1	<2	1.99	<0.5	19	8	466	4.53
132000		10.70	0.052	0.5	1.11	106	10	60	1.1	<2	2.30	<0.5	15	3	297	4.18
140501		13.00	0.010	<0.2	1.33	23	20	40	0.8	<2	2.55	<0.5	13	9	117	4.94
140502		11.40	0.012	<0.2	1.59	24	20	30	1.0	<2	1.44	<0.5	13	5	102	6.89
140503		9.94	0.027	<0.2	1.25	40	30	30	1.3	<2	2.32	<0.5	12	6	80	5.91
140504		12.58	0.102	0.9	0.91	137	20	40	1.2	<2	3.57	<0.5	13	4	410	4.34
140505		0.96	<0.005	<0.2	0.08	10	<10	20	<0.5	<2	>25.0	<0.5	<1	1	2	0.07
140506		12.16	0.059	0.4	0.73	144	10	40	1.0	<2	2.19	<0.5	12	3	412	3.76
140507		13.40	0.086	0.9	0.85	174	10	30	0.9	<2	2.49	<0.5	16	5	1440	4.22
140508		11.42	0.048	0.5	0.89	143	10	30	0.8	<2	1.54	<0.5	13	10	393	3.84
140509		13.48	0.057	0.7	0.99	200	20	30	0.9	<2	1.75	<0.5	15	3	340	4.27
140510		8.68	0.073	0.6	1.21	223	10	50	1.0	<2	1.90	<0.5	16	12	281	4.65
140511		9.34	0.113	1.1	1.15	320	10	30	1.2	<2	2.40	2.3	18	3	632	4.83
140512		0.10	1.555	0.5	1.13	2400	20	20	<0.5	30	5.59	<0.5	74	24	128	3.14
140513		6.64	0.053	0.2	1.13	90	20	30	1.0	<2	1.80	<0.5	14	7	250	4.34
140514		10.82	0.017	0.2	1.38	23	30	50	1.6	<2	1.72	<0.5	16	2	290	5.44
140515		11.30	0.007	<0.2	1.35	18	20	50	1.4	<2	3.02	<0.5	10	8	279	4.72
140516		8.30	0.007	<0.2	1.49	13	20	70	1.2	<2	4.63	0.8	10	2	115	4.66
140517		9.18	0.020	<0.2	1.48	28	20	40	1.5	<2	3.35	<0.5	13	6	206	4.69
140518		7.60	0.061	<0.2	1.49	115	20	30	1.2	<2	3.33	<0.5	13	2	330	4.63
140519		<0.02	0.067	0.4	1.62	123	30	30	1.3	<2	3.62	<0.5	14	6	329	4.74
140520		7.14	0.027	0.2	1.40	35	30	30	1.3	<2	2.76	<0.5	9	1	276	3.40
140521		13.56	0.007	<0.2	1.43	19	20	40	0.9	<2	2.04	<0.5	10	9	95	3.10
140522		8.56	0.008	<0.2	1.37	22	20	30	1.0	2	1.82	<0.5	11	2	100	3.94



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Total # Pages: 3 (A - C)  
Finalized Date: 31-OCT-2005  
Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089722

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	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
131999		<10	1	0.77	20	1.00	1235	30	0.05	7	1600	14	3.29	<2	6	109
132000		10	<1	0.68	20	1.01	1285	21	0.04	6	1520	13	2.20	2	6	113
140501		10	1	0.56	20	0.85	1095	3	0.04	5	1720	5	2.64	<2	5	108
140502		10	1	0.54	20	1.03	1110	2	0.04	3	1910	9	4.03	<2	5	88
140503		10	<1	0.60	30	0.63	1465	3	0.04	4	1520	5	3.12	<2	3	129
140504		<10	1	0.68	20	1.40	1540	29	0.05	5	1400	11	3.46	<2	6	148
140505		<10	<1	0.02	<10	2.01	23	<1	0.03	<1	50	<2	<0.01	<2	<1	5080
140506		<10	<1	0.57	20	0.82	1015	16	0.05	6	1130	14	3.14	<2	4	148
140507		10	<1	0.69	10	1.08	1040	193	0.03	4	1260	26	3.19	<2	6	149
140508		<10	<1	0.72	10	0.72	734	17	0.03	5	1240	10	3.08	<2	6	216
140509		<10	1	0.79	10	0.94	990	26	0.03	5	1340	13	3.14	<2	7	185
140510		10	1	0.66	20	1.18	1565	12	0.06	6	1400	16	3.01	<2	7	114
140511		10	<1	0.70	10	0.86	1780	33	0.04	4	1500	41	3.71	<2	6	127
140512		<10	1	0.05	10	0.27	770	9	0.07	25	1060	10	0.61	5	2	97
140513		10	1	0.63	20	0.57	1185	7	0.03	3	1080	14	2.69	<2	4	196
140514		10	1	0.62	20	0.66	1115	3	0.03	3	990	7	2.06	<2	4	277
140515		10	1	0.51	20	0.66	1620	4	0.02	2	1010	6	2.39	<2	4	291
140516		10	1	0.56	20	0.64	2140	3	0.03	<1	1020	4	1.95	<2	4	322
140517		10	1	0.55	20	0.71	1525	2	0.02	2	1020	3	2.87	2	4	343
140518		10	<1	0.60	20	0.83	1255	4	0.02	1	1200	12	3.18	<2	5	279
140519		10	<1	0.59	20	0.92	1380	7	0.02	2	1300	8	3.45	<2	6	300
140520		10	<1	0.63	30	0.71	758	2	0.03	2	1300	6	2.66	<2	4	254
140521		10	<1	0.61	20	0.81	403	5	0.03	2	1520	9	2.58	<2	6	250
140522		10	<1	0.57	10	0.89	408	3	0.04	2	1360	7	3.82	<2	7	136



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Finalized Date: 31-OCT-2005  
Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05089722

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Ti	Ti	U	V	W	Zn	Cu
		%	ppm	ppm	ppm	ppm	ppm	%
		0.01	10	10	1	10	2	0.01
131999		0.02	<10	<10	110	<10	76	
132000		0.01	<10	<10	98	<10	82	
140501		0.02	<10	<10	173	<10	51	
140502		0.02	<10	<10	232	<10	55	
140503		0.02	<10	<10	204	<10	68	
140504		0.01	<10	<10	117	<10	61	
140505		<0.01	<10	<10	4	<10	<2	
140506		0.01	<10	<10	90	<10	60	
140507		0.02	<10	<10	113	<10	75	
140508		0.02	<10	<10	135	<10	47	
140509		0.03	<10	<10	133	<10	70	
140510		0.02	<10	<10	143	<10	99	
140511		0.02	<10	<10	137	<10	173	
140512		0.04	<10	<10	25	10	58	
140513		0.01	<10	<10	143	<10	67	
140514		0.02	<10	<10	175	<10	77	
140515		0.12	<10	<10	202	<10	117	
140516		0.07	<10	<10	185	<10	126	
140517		0.07	<10	<10	176	<10	110	
140518		0.02	<10	<10	204	<10	65	
140519		0.02	<10	<10	206	<10	66	
140520		0.06	<10	<10	132	<10	46	
140521		0.23	<10	10	192	<10	22	
140522		0.21	<10	10	240	<10	24	



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Account: SPEGOL

## CERTIFICATE VA05091284

Project: Galore Creek

P.O. No.:

This report is for 56 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 18-OCT-2005.

The following have access to data associated with this certificate:

JACK COTE  
JOE PIEKENBROCK

JIM MUNTZERT

SCOTT PETSEL

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
LOG-22	Sample login - Rcd 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
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

## ANALYTICAL PROCEDURES

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

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:



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Project: Galore Creek

CERTIFICATE OF ANALYSIS	VA05091284
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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	ME-ICP41	ME-ICP41	
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe		
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01		
140523		8.96	0.014	0.2	1.12	31	20	20	0.8	<2	1.42	<0.5	13	3	150	5.19		
140524		11.10	0.021	0.3	1.00	26	10	20	0.7	<2	1.14	<0.5	14	8	368	4.47		
140525		0.10	0.043	67.4	0.32	70	<10	90	<0.5	4	0.27	0.7	2	20	9990	1.35		
140526		11.60	0.021	0.4	1.26	23	10	20	1.1	<2	1.92	<0.5	15	13	553	6.35		
140527		10.60	0.019	2.3	1.34	23	10	50	1.3	<2	3.37	<0.5	12	12	176	5.73		
140528		8.48	0.007	0.5	1.20	9	30	50	0.9	<2	1.96	<0.5	10	2	87	4.16		
140529		6.58	0.011	0.2	1.20	10	10	30	0.9	<2	1.28	<0.5	11	7	109	4.55		
140530		1.24	<0.005	<0.2	0.03	6	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.07		
140531		6.16	0.032	0.2	1.48	100	10	40	1.0	<2	1.04	<0.5	7	13	172	4.31		
140532		2.20	0.023	0.2	1.62	21	10	40	0.9	<2	0.73	<0.5	15	16	667	5.03		
140533		10.78	0.012	0.2	1.49	13	10	40	1.1	<2	2.46	<0.5	13	16	317	5.24		
140534		9.54	0.009	0.2	1.50	12	<10	30	1.1	<2	5.25	<0.5	20	17	279	5.99		
140535		9.02	0.011	0.3	1.11	3	10	20	1.1	<2	3.99	<0.5	20	15	316	5.12		
140536		9.34	0.015	0.2	1.61	12	<10	40	1.0	<2	3.38	<0.5	8	17	289	6.14		
140537		<0.02	0.016	0.2	1.56	18	<10	40	1.0	<2	3.32	<0.5	9	19	283	5.85		
140538		8.16	0.009	<0.2	1.38	4	10	40	0.9	<2	3.44	<0.5	7	13	82	5.67		
140539		9.22	0.011	<0.2	1.24	2	10	40	0.9	<2	4.26	<0.5	9	11	164	3.97		
140540		7.80	0.011	<0.2	1.37	12	<10	40	0.9	<2	4.07	<0.5	10	12	84	4.40		
140541		8.86	0.018	0.3	1.03	7	10	30	0.9	<2	4.61	<0.5	14	12	314	4.32		
140542		8.76	0.014	<0.2	1.06	<2	10	30	1.2	<2	4.44	<0.5	14	10	369	4.58		
140543		12.40	0.018	0.2	1.10	13	10	30	0.9	<2	4.71	<0.5	12	14	325	4.58		
140544		<0.02	0.015	0.2	1.11	15	10	30	1.0	<2	4.79	<0.5	12	11	321	4.61		
140545		6.16	0.016	0.3	1.02	16	10	40	0.8	<2	4.40	<0.5	13	17	260	4.40		
140546		9.40	0.016	0.3	1.22	17	10	40	0.9	<2	4.24	<0.5	15	11	277	4.75		
140547		10.04	0.020	0.2	1.26	15	10	40	1.1	3	4.55	<0.5	12	12	381	4.56		
140548		0.10	0.016	2.9	0.34	9	<10	100	<0.5	2	1.12	<0.5	2	8	4430	1.14		
140549		10.44	0.009	0.3	1.18	11	10	30	0.8	2	4.23	<0.5	13	11	240	4.03		
140550		7.52	0.011	0.2	1.40	24	10	70	0.9	<2	4.27	<0.5	15	7	218	4.41		
140551		9.30	0.007	<0.2	1.36	14	10	80	0.9	3	3.34	<0.5	15	11	135	3.63		
140552		6.74	0.014	<0.2	1.37	9	10	110	1.3	2	1.72	<0.5	14	13	213	5.10		
140553		11.76	0.011	0.2	1.54	26	10	40	1.3	<2	1.83	<0.5	19	14	267	5.62		
140554		<0.02	0.011	0.3	1.46	16	10	30	1.2	2	1.72	<0.5	18	8	265	5.32		
140555		11.00	0.013	0.2	1.41	21	10	70	1.2	<2	1.56	<0.5	16	16	261	5.13		
140556		13.36	0.011	0.2	1.40	10	10	60	1.0	<2	1.40	<0.5	17	9	271	5.43		
140557		10.78	0.015	0.3	1.10	13	<10	70	0.8	<2	1.54	<0.5	14	17	282	4.60		
140558		9.72	0.011	0.4	1.38	14	10	50	1.0	<2	1.30	0.5	16	14	300	5.18		
140559		14.26	0.021	0.8	1.32	12	10	60	1.0	<2	1.87	0.9	15	17	273	5.18		
140560		11.40	0.007	0.2	1.22	15	10	80	1.1	<2	1.62	<0.5	8	7	110	2.76		
140561		9.92	<0.005	<0.2	1.20	7	10	40	1.6	<2	1.79	<0.5	7	9	93	2.40		
140562		12.70	0.009	<0.2	1.04	12	10	40	1.2	<2	1.64	<0.5	7	5	67	2.44		

Comments: Unable to process sample 140576 as it is coated in grease. NSS is non-sufficient sample.



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Total # Pages: 3 (A - C)

Finalized Date: 5-NOV-2005

Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05091284

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
140523		10	<1	0.38	10	0.95	502	2	0.04	4	1480	13	5.06	<2	7	129
140524		10	<1	0.44	20	0.88	442	1	0.05	4	1380	12	4.51	<2	7	188
140525		<10	<1	0.20	<10	0.14	215	383	0.04	3	140	151	0.58	145	2	28
140526		10	<1	0.37	20	1.22	760	3	0.04	11	1780	10	5.05	<2	11	330
140527		10	<1	0.25	20	1.07	1145	2	0.03	6	2310	9	4.54	2	6	131
140528		10	<1	0.35	10	0.87	883	2	0.03	4	1220	9	3.00	<2	5	166
140529		10	<1	0.36	10	0.85	866	3	0.03	3	1130	10	3.25	<2	5	239
140530		<10	<1	0.01	<10	1.86	24	<1	0.02	<1	50	<2	0.19	<2	<1	5200
140531		10	<1	0.89	10	1.28	636	1	0.02	6	1490	11	2.07	<2	8	663
140532		10	<1	0.86	10	1.35	532	2	0.02	6	1530	10	2.23	<2	9	658
140533		10	<1	1.01	10	1.53	575	5	0.02	10	2190	11	2.67	<2	14	881
140534		10	<1	1.22	20	1.70	664	12	0.02	11	2600	11	5.80	<2	16	1125
140535		10	1	0.93	20	1.22	408	6	0.02	9	1720	9	5.03	<2	11	1015
140536		10	<1	0.84	50	1.56	548	40	0.02	8	1340	16	3.52	2	15	1210
140537		10	1	0.86	50	1.50	525	42	0.02	7	1280	17	3.51	<2	14	1195
140538		10	<1	0.59	20	1.16	549	15	0.02	7	1360	11	3.28	3	10	1215
140539		10	<1	0.60	20	1.11	617	12	0.02	5	1280	34	2.84	<2	8	1360
140540		10	<1	0.62	20	1.24	435	1	0.02	6	1340	6	3.15	<2	9	1145
140541		10	<1	0.62	10	1.02	695	1	0.03	5	1420	16	5.10	2	8	1080
140542		10	1	0.64	10	1.02	1145	2	0.03	6	1350	12	4.30	<2	8	1080
140543		10	<1	0.47	10	1.01	1375	5	0.03	8	1350	14	5.85	<2	8	1075
140544		10	2	0.47	10	1.02	1385	5	0.03	6	1370	12	5.94	<2	8	1075
140545		10	<1	0.56	10	1.12	1125	2	0.03	8	1380	11	5.70	2	8	1055
140546		10	1	0.55	10	1.14	1165	7	0.03	6	1420	15	5.87	3	9	1055
140547		10	<1	0.55	20	1.12	808	10	0.02	5	1330	11	5.43	<2	9	1185
140548		<10	<1	0.15	<10	0.08	225	402	0.03	2	310	6	0.63	2	<1	149
140549		10	1	0.37	10	1.16	886	6	0.03	5	1450	11	4.82	<2	9	902
140550		10	<1	0.35	10	1.44	1060	12	0.04	6	1670	8	5.13	<2	9	661
140551		10	<1	0.41	10	1.40	997	3	0.04	6	1690	17	3.60	2	10	507
140552		10	1	0.78	20	1.21	869	4	0.03	9	1710	22	2.10	2	12	645
140553		10	<1	0.89	10	1.22	1035	11	0.03	6	1740	14	3.27	2	11	837
140554		10	<1	0.84	10	1.19	989	10	0.03	6	1690	11	3.16	2	11	805
140555		10	<1	0.73	10	1.12	1005	5	0.03	13	1810	19	2.75	<2	12	600
140556		10	<1	0.78	10	1.20	839	8	0.03	8	1720	12	3.17	<2	11	519
140557		10	<1	0.42	10	0.93	731	11	0.03	6	1380	14	2.55	<2	9	458
140558		10	<1	0.41	20	1.17	1005	19	0.03	7	1500	15	2.73	<2	10	474
140559		10	<1	0.32	20	1.20	1400	21	0.03	7	1480	13	2.63	2	10	649
140560		10	<1	0.17	10	0.77	829	11	0.05	4	900	21	1.04	<2	5	237
140561		10	<1	0.18	10	0.61	724	1	0.06	4	770	15	0.90	<2	4	146
140562		10	<1	0.21	10	0.63	862	3	0.06	3	700	19	1.14	<2	4	137

Comments: Unable to process sample 140576 as it is coated in grease. NSS is non-sufficient sample.





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Account: SPEGOL

Project: Galore Creek

CERTIFICATE OF ANALYSIS	VA05091284
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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
140523		0.21	<10	<10	255	<10	25
140524		0.10	<10	<10	213	<10	30
140525		0.04	<10	<10	10	<10	71
140526		0.12	<10	<10	326	<10	35
140527		0.17	<10	<10	281	50	27
140528		0.19	<10	<10	196	30	28
140529		0.18	<10	<10	194	40	37
140530		<0.01	<10	<10	4	<10	<2
140531		0.11	<10	<10	254	<10	47
140532		0.09	<10	<10	303	10	46
140533		0.11	<10	<10	291	<10	49
140534		0.17	<10	<10	288	<10	48
140535		0.13	<10	<10	258	<10	37
140536		0.11	<10	<10	308	<10	46
140537		0.11	<10	<10	302	<10	45
140538		0.07	<10	<10	241	<10	39
140539		0.06	<10	<10	212	<10	51
140540		0.08	<10	<10	264	<10	44
140541		0.06	<10	<10	181	<10	53
140542		0.07	<10	<10	219	<10	57
140543		0.04	<10	<10	206	<10	64
140544		0.04	<10	<10	206	<10	63
140545		0.04	<10	<10	186	<10	48
140546		0.13	<10	<10	224	10	67
140547		0.15	<10	<10	227	<10	53
140548		0.01	<10	<10	6	<10	21
140549		0.11	<10	<10	160	<10	51
140550		0.12	<10	<10	148	<10	53
140551		0.10	<10	<10	123	<10	58
140552		0.22	<10	<10	267	<10	58
140553		0.21	<10	<10	261	<10	72
140554		0.20	<10	<10	249	<10	69
140555		0.19	<10	<10	250	<10	75
140556		0.19	<10	<10	248	<10	57
140557		0.12	<10	<10	192	90	56
140558		0.16	<10	<10	250	10	101
140559		0.11	<10	<10	229	10	165
140560		0.12	<10	<10	113	<10	64
140561		0.11	<10	<10	92	<10	48
140562		0.10	<10	<10	78	<10	63

Comments: Unable to process sample 140576 as it is coated in grease. NSS is non-sufficient sample.



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Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05091284

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	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
140563		10.20	0.006	<0.2	1.08	4	10	50	1.0	<2	1.84	0.5	7	8	68	2.64
140564		8.50	0.005	<0.2	1.16	8	10	40	1.3	<2	1.81	<0.5	7	6	104	2.68
140565		1.14	<0.005	<0.2	0.02	<2	<10	<10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.04
140566		9.52	0.010	0.2	1.18	6	10	40	1.3	<2	1.93	<0.5	7	5	214	2.55
140567		8.26	0.010	<0.2	1.22	7	10	60	1.3	<2	2.01	<0.5	8	9	126	2.98
140568		11.48	0.008	<0.2	1.16	7	10	300	1.4	<2	2.86	<0.5	12	10	154	3.51
140569		8.78	0.010	<0.2	1.13	11	10	140	1.3	<2	2.91	<0.5	13	13	199	3.46
140570		<0.02	0.014	0.2	1.16	5	10	140	1.4	<2	3.01	<0.5	14	11	206	3.57
140571		10.66	0.048	0.2	1.18	23	10	140	1.2	<2	3.99	<0.5	13	13	156	3.73
140572		10.70	0.037	0.3	1.17	15	10	150	1.0	<2	3.51	<0.5	13	11	208	4.16
140573		10.64	0.020	<0.2	1.40	15	70	150	1.2	<2	2.59	<0.5	12	14	177	3.82
140574		0.10	0.465	0.6	1.06	7290	50	20	<0.5	18	6.00	<0.5	172	11	80	3.70
140575		10.22	0.024	0.3	1.62	17	10	210	1.4	<2	3.28	<0.5	13	14	248	3.99
140576		9.88	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
140577		9.44	0.023	0.2	1.42	6	10	120	1.3	<2	3.18	<0.5	11	14	228	3.75
140578		7.56	0.016	0.2	1.10	5	10	90	1.9	<2	3.56	<0.5	11	8	226	3.56

Comments: Unable to process sample 140576 as it is coated in grease. NSS is non-sufficient sample.



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Account: SPEGOL

Project: Galore Creek

## CERTIFICATE OF ANALYSIS VA05091284

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	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
140563		10	<1	0.26	10	0.70	1010	2	0.06	4	790	18	0.76	<2	4	193
140564		10	<1	0.20	10	0.66	875	7	0.07	4	780	14	0.51	<2	4	173
140565		<10	<1	0.01	<10	2.04	25	<1	0.02	<1	40	<2	0.14	<2	<1	5160
140566		10	<1	0.20	10	0.64	862	9	0.06	2	780	13	0.44	<2	4	208
140567		10	<1	0.28	10	0.74	819	1	0.07	4	870	15	0.51	<2	5	196
140568		10	<1	0.19	10	0.85	842	5	0.04	5	1270	8	0.85	<2	6	483
140569		10	<1	0.18	10	0.82	875	2	0.04	4	1240	6	0.64	<2	6	427
140570		10	<1	0.19	10	0.84	907	2	0.04	6	1300	7	0.66	<2	6	444
140571		10	<1	0.22	10	0.94	1020	13	0.04	5	1260	7	1.48	<2	7	470
140572		10	<1	0.21	10	1.08	1105	8	0.04	4	1260	3	0.89	3	7	488
140573		10	<1	0.29	10	0.98	892	3	0.04	6	1310	5	0.25	<2	6	349
140574		<10	<1	0.05	10	0.23	669	12	0.08	32	1240	13	1.33	11	2	100
140575		10	1	0.26	10	1.14	1055	2	0.04	5	1360	4	0.14	<2	8	453
140576		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
140577		10	<1	0.44	10	0.98	1015	3	0.05	6	1280	29	0.09	<2	7	312
140578		10	<1	0.46	20	0.71	1015	1	0.03	4	1260	2	0.05	<2	8	433

Comments: Unable to process sample 140576 as it is coated in grease. NSS is non-sufficient sample.



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<b>CERTIFICATE OF ANALYSIS VA05091284</b>
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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
140563		0.07	<10	<10	83	<10	81
140564		0.12	<10	<10	106	<10	77
140565		<0.01	<10	<10	2	<10	<2
140566		0.12	<10	<10	97	<10	80
140567		0.14	<10	<10	131	<10	73
140568		0.15	<10	<10	180	<10	61
140569		0.14	<10	<10	192	<10	63
140570		0.14	<10	<10	196	<10	63
140571		0.13	<10	<10	195	<10	56
140572		0.13	<10	<10	217	<10	63
140573		0.22	<10	<10	229	<10	77
140574		0.05	<10	<10	33	<10	91
140575		0.21	<10	<10	234	<10	80
140576		NSS	NSS	NSS	NSS	NSS	NSS
140577		0.20	<10	<10	228	<10	76
140578		0.07	<10	<10	185	<10	61

Comments: Unable to process sample 140576 as it is coated in grease. NSS is non-sufficient sample.