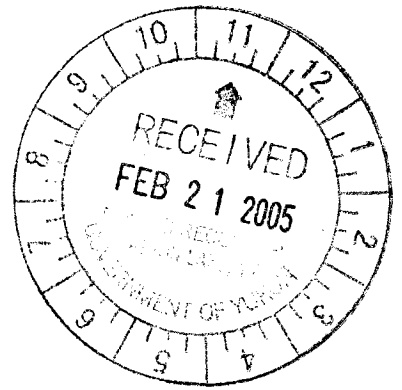


094911



# HINTERLAND METALS INC.

**A REPORT ON PROSPECTING AND GEOCHEMICAL SURVEYS**

**CHRIS PROPERTY**

**CHRIS 1-28, YC 24374-24401 AND CHRIS 29-42, YC 25188-24301**

**100% OWNER: HINTERLAND METALS INC.**

**61°30' N. LAT. AND 131°20' W. LONG.  
N.T.S. SHEETS 105 G/06 & 105 G/11**

**WATSON LAKE MINING DISTRICT OF YUKON**

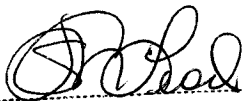
**JUNE TO AUGUST 2004**

**YMIP # 04-075**

**MARK FEKETE, P.GEO.  
JANUARY 31, 2005**

**MODIFIED BY CARL SCHULZE  
FEBRUARY 16, 2005**

Costs associated with this report have been  
approved in the amount of \$14,000.00  
for assessment credit under Certificate of  
Work No. Q25727.



Mining Recorder  
Watson Lake Mining District

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 14,000.00.

*Alfred Burke*

Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.



## SUMMARY

The 42 claim (2169 acre) Chris Property is situated within the Watson Lake Mining Division and located in the Finlayson Lake Area of southeastern Yukon approximately 225 kilometres east-northeast of the capital city of Whitehorse. Based on the results of the exploration program completed in 2004 and a review of relevant reports and maps obtained from various sources, an evaluation of the exploration potential of the property is presented. No formal recommendation of further work is provided by this report.

Hinterland Metals Inc. holds an undivided 100% interest in the property's mineral rights. The property was staked in 2003 to cover a discovery of chrysoprase. In 2004, 14 claims were added to the original 28 claims.

Access to the property is by helicopter. A cat trail passes within 5 km of the southeast corner of the property and may eventually be upgraded to provide land access. The property is in steep, rugged terrain where snow conditions and short daylight hours in winter mean that the best period for exploration is from mid-June to mid-September.

The Finlayson Lake Area lies within the northern Canadian Cordillera in a region underlain primarily by several fault- and unconformity-bound meta-sedimentary and meta-volcanic successions and affiliated meta-plutonic rocks of the Yukon-Tanana Terrane. The region is bound to the south by the Tintina Fault and to the north by rocks of the North American Miogeocline. The Chris Property lies in the southwestern part of the region footwall to the Money Creek thrust. Meta-sediments and meta-volcanics of the Grass Lake succession and coeval granitic and monzonitic rocks of the Grass Lakes Plutonic Suite underlie the properties. These Late Devonian to Early Mississippian rocks were deformed and imbricated prior to the emplacement of a mid-Cretaceous suite of peraluminous granitic rocks. The property is underlain mainly by serpentinized ultramafic rocks of the North Lake Meta-diorite Suite.

The 2004 exploration program was completed from August 6 to 29, 2004, and included a visit by Carl Schulze on June 10. It consisted of prospecting, outcrop examination and rock sampling and geochemical surveys. The main goal of this work was to locate a reliable supply of chrysoprase on the Chris Property. This goal has been met by the discovery of the Blue Feather and Green Feather showings. A composite 1500 kg mini-bulk sample was removed from these showings by helicopter. At this point no further chrysoprase exploration is required. Two sites with significant gold and copper mineralization need to be revisited and thoroughly prospected. This work can be done when a trip is made to recover another mini-bulk sample of chrysoprase.



## CERTIFICATE OF QUALIFICATIONS

I, **Mark Fekete**, having my place of residence at 178 Dennison Boulevard in Val d'Or in the Province of Quebec do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of British Columbia in 1986, I have been engaged as a Geologist continuously since 1986, I am a Member in good standing of the Order of Geologists of Quebec (# 553) and I am a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101;
2. I have visited the Chris Property (the "Property") numerous times most recently in August 2004;
3. I wrote and am solely responsible for the contents of this technical report entitled "A Report of Prospecting and Geochemical Surveys, Chris Property, YMIP # 04-075" based on my professional experience, a review of relevant reports and maps and my own work on the Property;
4. I am not aware of any material fact or material change with respect to the subject matter of the report that is not disclosed in the report which, by its omission, makes the report misleading;
5. I am an officer and director and I beneficially hold a number of shares in Hinterland Metals Inc.;
6. I hold no direct interest in the Property as a result of any prior involvement in the Property;
7. I have read, and this report has been prepared in compliance with, National Instrument 43-101 and Form 43-101; and
8. I hereby give consent to Hinterland Metals Inc. to use or reproduce this report in whole or in part for the purposes of exploring and developing the Property (including the raising of funds) provided that no portion of the report is used in such a manner that conveys any misrepresentation of the information contained in the report.

Respectfully submitted this 31st day of January, 2005,

***"Mark Fekete"***

Mark Fekete, P.Geol.



## CERTIFICATE OF QUALIFICATIONS, CARL SCHULZE

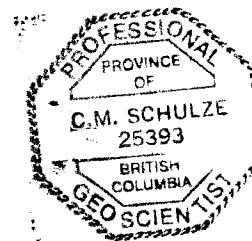
I, Carl M. Schulze, PGeo, hereby certify that:

- 1) I am a self-employed Consulting Geologist and sole proprietor of:  
All-Terrane Mineral Exploration Services  
35 Dawson Rd  
Whitehorse, Yukon Y1A 5T6
- 2) I graduated with a Bachelor of Science Degree in geology from Lakehead University, Thunder Bay, Ontario, in 1984.
- 3) I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC).
- 4) I have worked as a geologist for a total of 21 years since my graduation from Lakehead University.
- 5) I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 6) I am responsible for preparation of some sections of the technical report titled "A report on Prospecting and Geochemical Surveys, Chris Property, Watson Lake Mining District of Yukon, June-August, 2004, YMIP # 04-075" on the Chris property area, and for modifications on the original report authored by Mr. Fekete. I was active on-site at the Chris property on June 10, 2004.
- 7) I have not had prior involvement with the property that is the subject of the Technical Report.
- 8) I am not aware of any material facts or material changes with respect to the subject matter of the technical report not contained within the report, of which the omission to disclose makes the report misleading.
- 9) I am independent of the issuer applying all of the tests in section 1.5 of National Instrument 43-101.
- 10) I have read National Instrument 43-101 and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.

Dated this 16<sup>th</sup> Day of February, 2005.

  
"Carl Schulze"

Carl Schulze, BSc, PGeo  
Address: 35 Dawson Rd  
Whitehorse, Yukon Y1A 5T6  
Telephone: 867-633-4807  
Fax: 867-633-4883  
E-mail: allterrane@northwestel.net





## TABLE OF CONTENTS

*Summary*

*Certificate of Qualifications*

*Table of Contents*

*List of Tables*

*List of Figures*

1. Introduction and Terms of Reference.....	1
2. Disclaimer .....	1
3. Location and Property Description.....	1
4. Accessibility, Local Resources, Infrastructure, Physiography and Climate.....	4
5. Exploration History .....	4
6. Regional Geology.....	8
7. Local Geology .....	8
8. Property Geology .....	9
9. Deposit Model.....	9
10. Mineralization.....	10
11. Exploration 2003 .....	11
11.1. Introduction .....	11
11.2. Prospecting, Outcrop Examination and Rock Sampling .....	12
11.3. Geochemical Surveys .....	12
11.4. Bulk Sample .....	14
11.5. Sampling and Analytical Procedures.....	14
11.6. Discussion of Results .....	14
12. Adjacent Properties.....	15
13. Mineral Processing and Metallurgical Testing .....	15
14. Mineral Resource and Mineral Reserve Estimates .....	15
15. Other Relevant Data and Information.....	15
16. Conclusions .....	16
17. Recommendations.....	16
18. References .....	16



## LIST OF FIGURES

Figure 1 - Location Map.....	2
Figure 2 - Claim Map .....	3
Figure 3 - Regional Terrane Map .....	5
Figure 4 - Finlayson Regional Geology Map .....	6
Figure 5 - Chris Property Geology .....	7
Figure 6 - Sample Location Map.....	13

## LIST OF TABLES

Table 1 - List of Mineral Titles .....	1
Table 2 - Finlayson Lake Area VMS Deposits.....	10
Table 3 - Adjacent Mineral Occurrences.....	11

## LIST OF APPENDICES

Appendix A - Sample Descriptions	
Appendix B - Assay Certificates	
Appendix C - Statement of Costs	





## 1. Introduction and Terms of Reference

Breakaway Exploration Management Inc. (“Breakaway”) was retained by Hinterland Metals Inc. (“Hinterland” or the “Company”) to complete a program of prospecting and geochemical surveying on the Chris Property located in the Finlayson Lake Area of southeastern Yukon. The purpose of this report is to describe the details of the work program, to provide an opinion of the exploration potential of the property and to recommend a program for further exploration of the property.

This report was prepared as part of continuous disclosure on the part of Hinterland. It was also prepared as a requirement of the Yukon Mining Incentive Program in order to complete the application for \$15,000 of funds under YMIP # 04-075. Finally this report will be filed to complete assessment work requirements of the *Yukon Quartz Mining Act*. The report is based on the results of the exploration program, including the June 10 visit by Carl Schulze, as well as information obtained from a review of relevant reports and maps available from various sources cited throughout the report. Mark Fekete, P.Geo. is the primary author of the report, modified slightly by Carl Schulze. In his capacity as President of Hinterland, Mr. Fekete also accepts responsibility as the qualified person for the Company.

The metric system is used for all units of measure mentioned in this report and all dollar amounts are in Canadian funds unless otherwise stated. All maps presented in this report are plotted in map projection UTM NAD 83, Zone 9 unless otherwise stated.

## 2. Disclaimer

The author has relied on the technical data and interpretation found in various sources cited throughout the report. The author has not verified this information and takes no responsibility for its accuracy or completeness. The author does not offer any opinion concerning legal, title, environmental, political or other non-technical issues that may be relevant to the technical report.

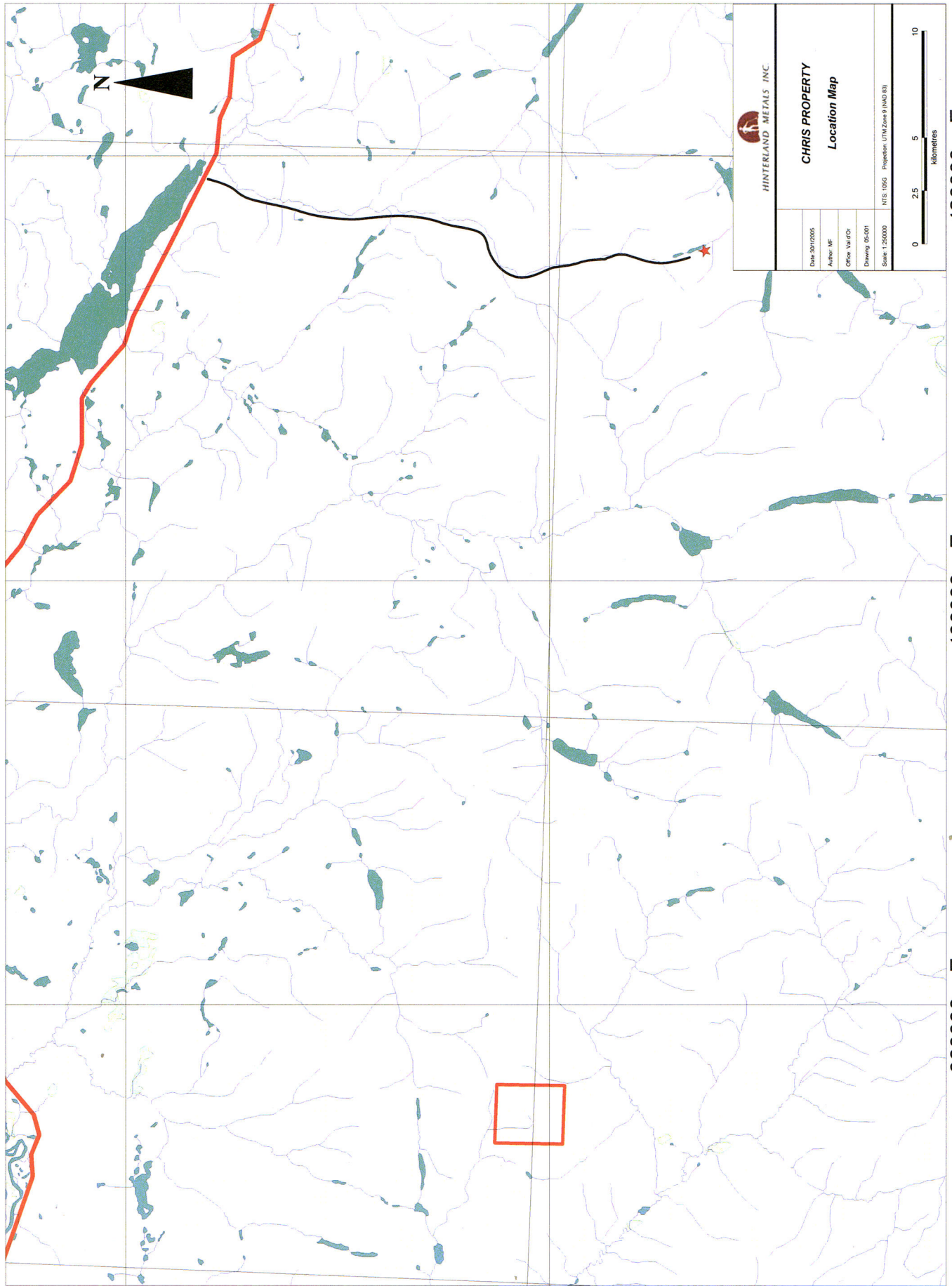
## 3. Location and Property Description

The Chris Property is located in the Finlayson Lake Area of southeastern Yukon approximately 225 kilometres east-northeast of the capital city of Whitehorse (Figure 1). The property lies within the Watson Lake Mining Division and straddles N.T.S. map sheets 105 G/06 and 105 G/11 at an approximate geographic centre of 61°30' North Latitude and 131°20' West Longitude. There are no notable topographic features near the property.

The surface rights for the area of all the property are held by the Crown. The mineral rights (Figures 2) are held 100% by Hinterland under the statutes of the *Yukon Quartz Mining Act* and are listed as follows:

Table 1 - List of Mineral Titles

Claim Name	Claim Number
Chris 1 to Chris 28 inclusive	YC 24374 to YC 24401 inclusive
Chris 29 to Chris 42 inclusive	YC 25188 to YC 25201 inclusive



 HINTERLAND METALS INC.	
<b>CHRIS PROPERTY</b> Location Map	
Date: 30/10/2005	Author: MF
Office: Val d'Or	Drawing: 05/011
Scale: 1:25000	NTS: 1:5000 Projection: UTM, Zone 9 (NAD 83)

0 2.5 5 10  
kilometres

684000 mN

682000 mN

380000 mE

400000 mE

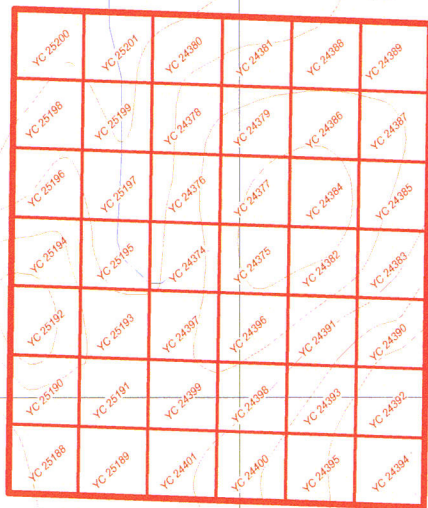
420000 mE

6825000 mN

6820000 mN

375000 mE

380000 mE



Mink Trail



HINTERLAND METALS INC.

CHRIS PROPERTY

Claim Map

Date: 30/1/2005

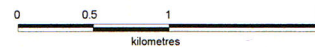
Author: MF

Office: Val d'Or

Drawing: 05-002

Scale: 1:50000

NTS: 105 G08 & G11 Projection: UTM Zone 9 (NAD 83)





#### **4. Accessibility, Local Resources, Infrastructure, Physiography and Climate**

At this time helicopter is the only practical means of access to the Chris Property. Helicopters are available for charter in Whitehorse and Ross River. During the summer months, Kluane Airways operates a helicopter out of Inconnu Lodge on McEvoy Lake some 50 km north of the project area. There is a cat trail that travels south from the Robert Campbell Highway to several abandoned placer mining operations on the upper reaches of the Hoole River. The cat trail passes within 5 km of the southwest corner of the property and may eventually be upgraded to provide land access. The most suitable place to establish an exploration camp is at the outlet of a small cirque lake draining the north end of the property.

All supplies and services are available in Whitehorse. Although Ross River and Faro are much closer, these villages offer only limited services. Whitehorse also offers claim staking, linecutting, geological, geophysical, trenching and diamond drilling services through a number of contractors. Analytical services must be obtained outside Yukon.

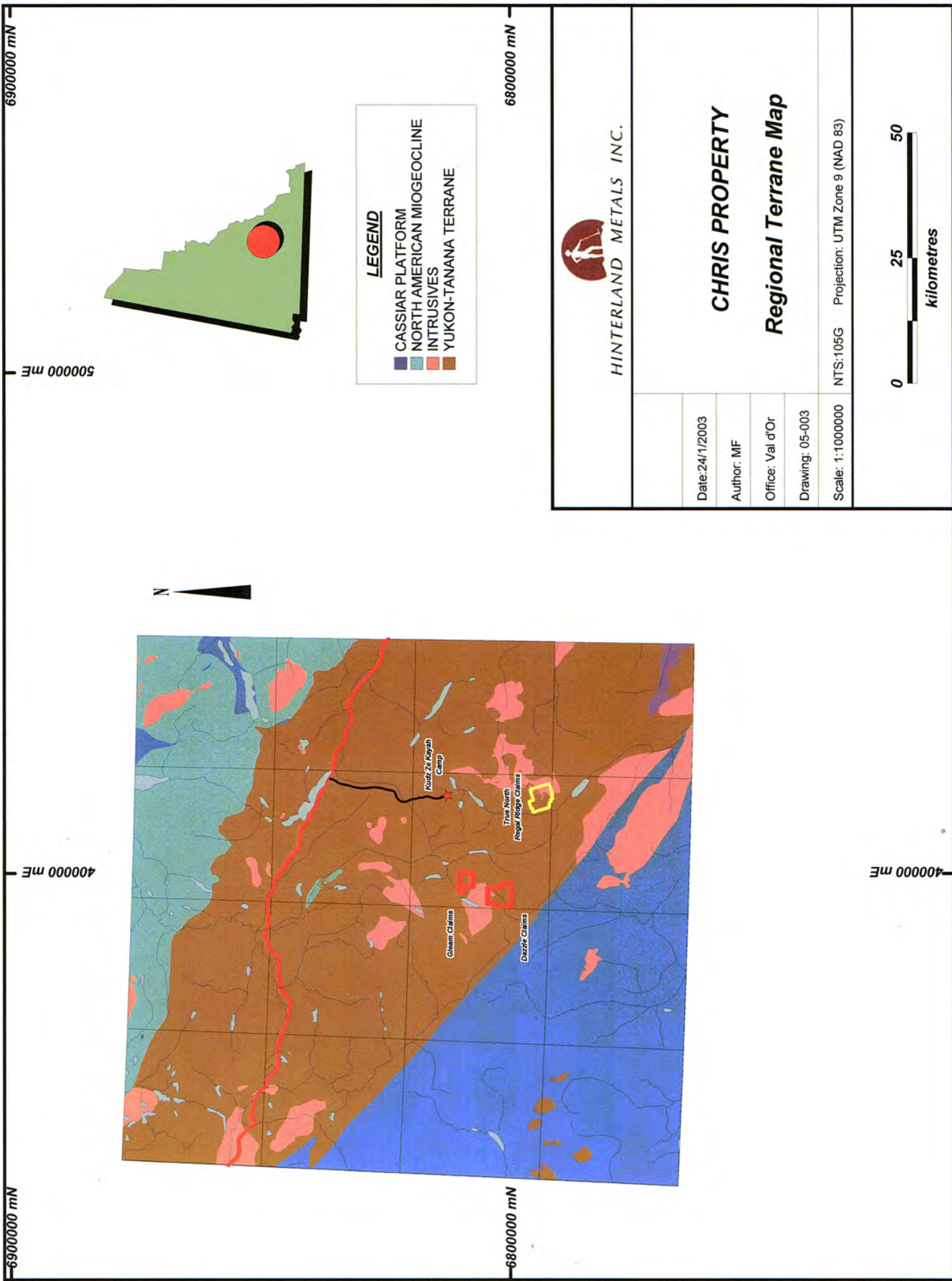
The property lies in rugged mountainous terrain ranging from 1250 m to 2050 m above sea level. It is drained southward into the Hoole River, a tributary of the Pelly River in the Yukon River Watershed. The vegetation is typical of alpine regions. The higher elevations are either barren or covered with mosses, lichen grasses and low brush. The lower elevations are covered by stunted fir forest with intermittent grassy meadows and brush covered creek bottoms. Rock outcrops are abundant and well exposed although talus slides obscure much of the exposure.

The Finlayson Lake Area is characterized by a semi-arid, sub-arctic continental climate with mild summers and very cold winters. Precipitation is generally light in the summer although overcast conditions can persist for weeks without any rain. Heavy morning fog can be a problem especially towards the end of the summer season. Maximum snow accumulation in the winter is less than two metres, although avalanches result in areas of much thicker snow pack that may last into July. Due to the northerly latitude of the region, summer days are long and winter days very short. The best season for exploration is during the summer months from mid-June to mid-September.

#### **5. Exploration History**

The Chris Property has seen cursory regional exploration for lode gold-type and VMS-type mineralization but no mineral showings have been previously reported. A review of the Yukon Geology Program MINFILE database reveals no documented evidence of work on the property and there is no physical evidence of work except a tent frame and grid lines along the southern boundary of the property. These grid lines are probably related to work done on the EL showing (MINFILE.No. 105G 016) located approximately 5 km southwest of the southeast corner of the property. Hinterland discovered chrysoprase on the property in 2003 as a result of regional exploration for lode gold-type and VMS-type mineralization (Fekete 2004).





6900000 mN

500000 mE

400000 mE

6900000 mN

6800000 mN

6800000 mN

400000 mE

**LEGEND**

- CASSIAR PLATFORM
- NORTH AMERICAN MIOGEOCLINE
- INTRUSIVES
- YUKON-TANANA TERRANE



HINTERLAND METALS INC.

**CHRIS PROPERTY**  
**Regional Terrane Map**

Date: 24/1/2003

Author: MF

Office: Val d'Or

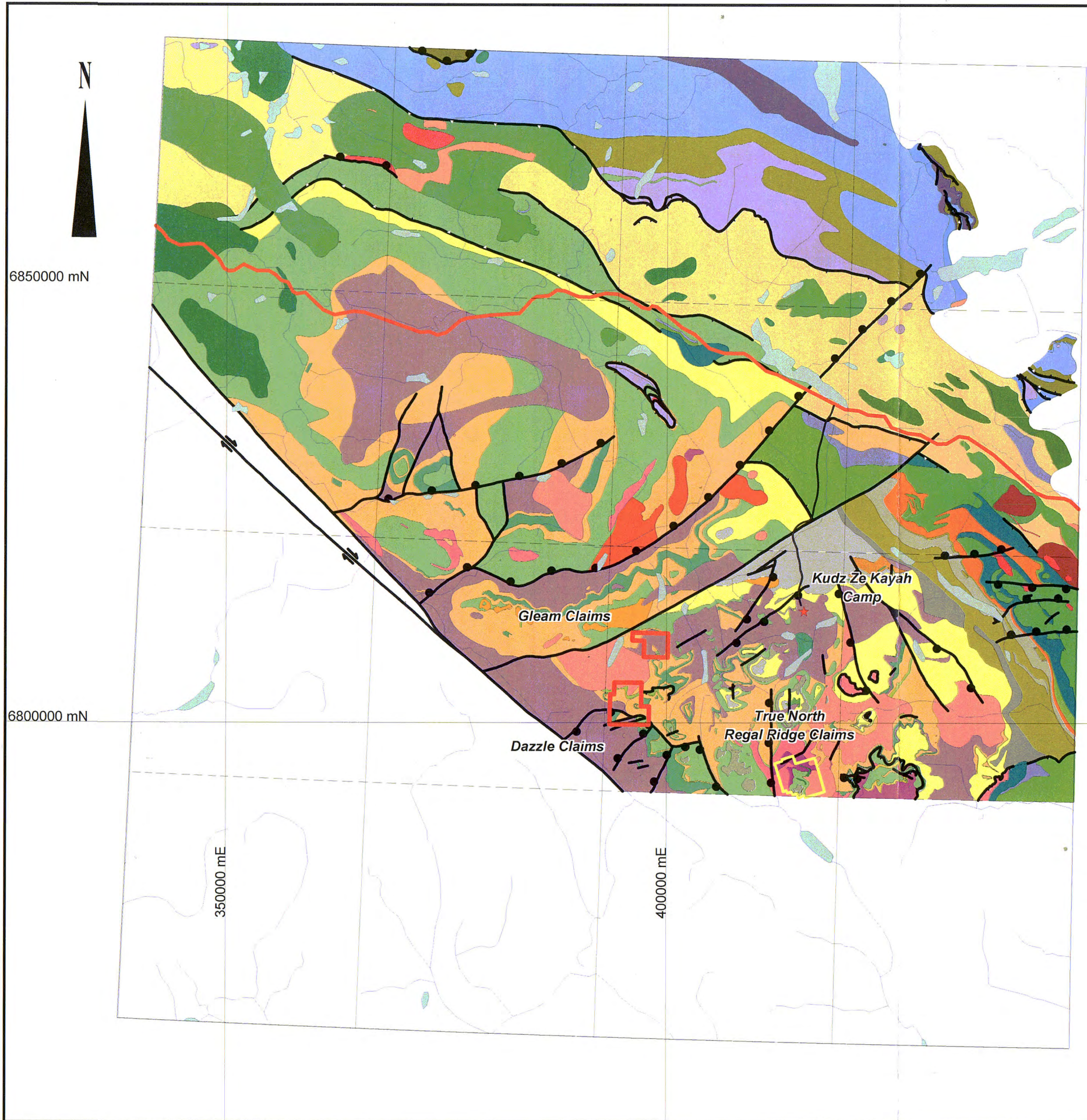
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Scale: 1:1000000

Projection: UTM Zone 9 (NAD 83)







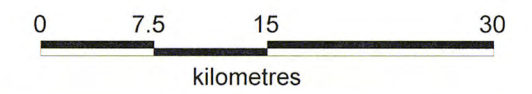
**Legend**

- TERTIARY**
- Eq - Quartz porphyry
- Eg - Gabbro and pyroxenite
- CRETACEOUS**
- Kg - Granite
- Kv - Crystal lithic tuff
- EOCENE**
- Eb - Basalt
- N.A. MIOGEOSYNCLINE**
- UPPER TRIASSIC**
- Tl - Bioclastic limestone
- Ts - Phyllite
- PERMIAN**
- PMC - Mt. Christie Fm Chert
- DEVONIAN - MISSISSIPPIAN**
- DME - Earn Gp metasediments
- ~~~~unconformity~~~~
- CASSIAR PLATFORM**
- MIDDLE DEVONIAN**
- DI - Limestone
- SILURIAN-DEVONIAN**
- SDq - Orthoquartzite
- Sdq - Dolostone and quartzite
- Ss - Laminated siltstone
- Hanging Wall of Inconnu Thrust*
- Jg - Granite
- YUKON-TANANA TERRANE**
- Plg - Leucogabbro, gabbro and diabase
- Pum - Serpentinized ultramafic
- MID-PERMIAN**
- Conglomerate
- ~~~~unconformity~~~~
- EARLY PERMIAN**
- Campbell Range Succession*
- PCb - basalt
- PCc - Chert
- ~~~~unconformity on all thrust sheets~~
- Footwall of Jules Creek Thrust*
- CARBONIFEROUS?**
- Cfv - Felsic metavolcanic
- Ccs - Metasediment
- Civ - Intermediate metavolcanic
- Cl - Crinoidal limestone
- Hangingwall of Jules Creek Thrust*
- PENNSYLVANIAN**
- Pcl - Phyllite, conglomerate and grewacke
- ~~~~unconformity~~~~
- Hangingwall of Money Creek Thrust*
- EARLY MISSISSIPPIAN**
- MSg - Simpson Range Granites
- LATE DEVONIAN - EARLY MISSISSIPPIAN**
- Dqp - Mafic poor granite
- Dum - Serpentinized ultramafic
- CMCu - Felsic metavolcanic and metasediments
- PENNSYLVANIAN**
- Pq - Quartzite
- UPPER MISSISSIPPIAN TO MID-PENNSYLVANIAN**
- Cc - Crinoidal limestone
- LOWER MISSISSIPPIAN**
- Miv - Mica-quartz phyllite
- UPPER DEVONIAN**
- Df - Metavolcanic
- DFcp - Carbonaceous phyllite
- DFr - Rhyolite
- Footwall of Money Creek Thrust*
- EARLY MISSISSIPPIAN**
- Wolverine Succession*
- MWb - Chloritic phyllite
- MWt - Phyllite
- MWf - Metaporphyry
- MWcp - Carbonaceous phyllite
- MWcl - Metasediment
- ~~~~unconformity~~~~
- EARLY MISSISSIPPIAN**
- MGg & Mgag - Grass Lakes Suite - granite
- LATE DEVONIAN**
- North Lakes Meta-diorite*
- DNd - Foliated diorite
- DMi - Metagabbro
- Dum - Serpentinized ultramafic
- UPPER DEVONIAN TO LOWE MISSISSIPPIAN**
- Grass Lakes Succession*
- DMq- Quartzite
- DMn - Chloritic phyllite
- DMcp - Phyllite and quartzite
- DMcg - Metaconglomerate
- Kudz Ze Kayah felsic metavolcanic
- DKcp - Carbonaceous phyllite
- DKcs - Calcareous metasediment
- DF - Fire Lake Metavolcanic
- UPPER DEVONIAN & OLDER**
- Dq - Mica-Quartz-feldspar schist
- Dqm - Marble and calcareous schist
- Dm - Chlorite schist
- Dfv - Felsic metavolcanic



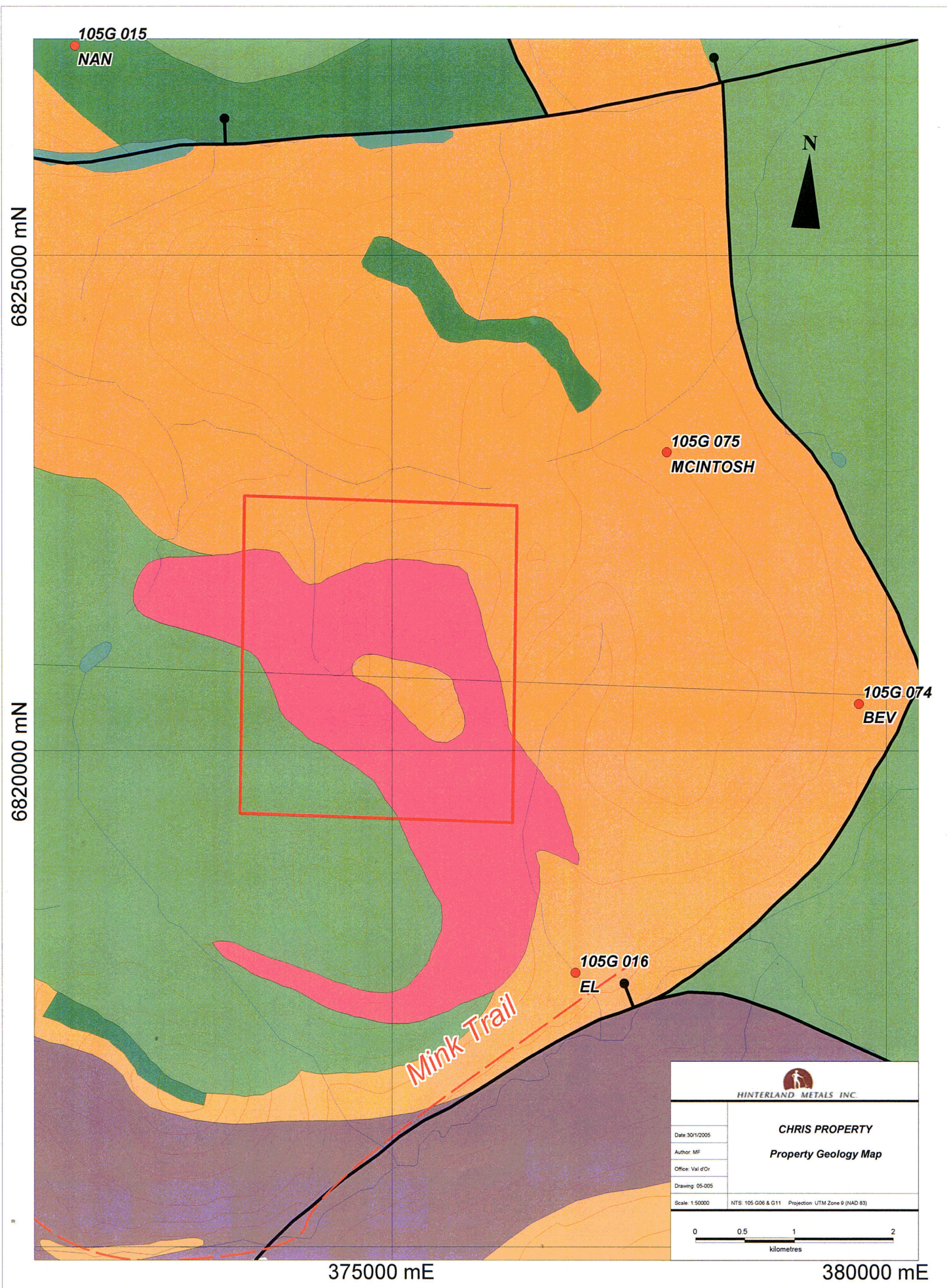
Date: 24/1/2003  
 Author: MF  
 Office: Val d'Or  
 Drawing: 05-004  
 Scale: 1:500000 NTS:105G Projection: UTM Zone 9 (NAD 83)

**CHRIS PROPERTY**  
**Finlayson Lake Geology Map**



Adapted from Murphy et al 2001, INAC OF 2001-33





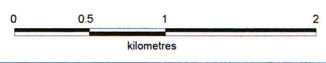
HINTERLAND METALS INC.

**CHRIS PROPERTY**

**Property Geology Map**

Date: 30/1/2005  
Author: MF  
Office: Val d'Or  
Drawing: 05-005

Scale: 1:50000 NTS: 105 G06 & G11 Projection: UTM Zone 9 (NAD 83)







## 6. Regional Geology

The Chris Property lies within the northern Canadian Cordillera and covers complexly deformed greenschist to lower amphibolite grade metamorphic rocks of the Yukon-Tanana Terrane in contact with mid-Cretaceous granitic plutons (Figure 3). Southwest of the property the right-lateral Tintina Fault Zone separates the Yukon-Tanana Terrane from sedimentary rocks of the Cassiar Platform. Northwest of the property area, the Yukon-Tanana Terrane has been obducted onto clastic and carbonate sediments of the North American Miogeocline by the Inconnu Thrust. The properties lie in an area located north of the Tintina Fault where the Yukon-Tanana is comprised mainly of pre- to Late Devonian quartz-rich metaclastic rocks and carbonates and Late Devonian and Mississippian meta-volcanic and meta-plutonic rocks. These rocks were deformed and imbricated in the late Paleozoic and again in the Early Cretaceous prior to the emplacement of a suite of ca. 112 Ma peraluminous granitic intrusions (Mortenson 1999).

## 7. Local Geology

The most recent compilation of Finlayson Lake Area by Murphy et al (2001) divides the Yukon-Tanana Terrane locally into several fault- and unconformity-bound, meta-sedimentary and meta-volcanic successions and affiliated meta-plutonic rocks (Figure 4). The southernmost and structurally deepest rocks are found in the footwall of the Money Creek thrust and include the Grass Lakes succession, mid-Paleozoic granitic meta-plutonic rocks and the unconformably overlying Wolverine succession. On the hanging wall of the thrust is the narrow, discontinuous, largely undifferentiated Tuchitua succession of Upper Devonian to Pennsylvanian quartzites, phyllites, limestones, greywackes and cherts, as well as intermediate metavolcanic rocks coeval to those in both the Grass Lakes and Wolverine successions. Dark clastic rocks and cherts of probable Late Pennsylvanian age overlap both the footwall and thrust sheet of the Money Creek thrust. Rocks in the footwall of the Money Creek thrust, the Money Creek thrust sheet, and the Pennsylvanian overlap rocks have been thrust to the northeast along the Jules Creek Fault and thereby placed over the Finlayson succession composed of clastic rocks, cherts, limestones and meta-volcanics. Permian basalts and cherts of the Campbell Range succession overlie all the thrust sheets. Foliated mafic and ultramafic intrusives, possibly sub-volcanic feeders to the Campbell Range basalts, are found within much of the older rock units. In the southern part of the map area there are several weakly foliated mid-Cretaceous intrusions. In the west-central part of the map area, three bodies of non-foliated Jurassic granitic rocks intrude Yukon-Tanana rocks.

The Chris Property lies within the Upper Devonian and Lower Mississippian Grass Lake succession. The lowermost section of the Grass Lakes succession includes muscovite-quartz phyllite, augen phyllite and minor chloritic phyllite, marble and calcareous schist. The Fyre Lake meta-volcanic unit, composed mainly of chloritic phyllite with lesser carbonaceous phyllite and rare muscovite-quartz phyllite, overlies the lowermost section. Carbonaceous phyllite, lesser quartz-feldspar schists and pebble schists and thick sections of feldspar-muscovite-quartz phyllite and augen phyllite (felsic meta-volcanic rocks) of the Kudz Ze Kayah unit overlie the Fyre Lake unit. The upper part of the Grass Lakes succession is composed of carbonaceous phyllite, chloritic phyllite (mafic meta-volcanic rocks and dykes), quartzite and quartzo-





feldspathic meta-conglomerate. These layered rocks are sub-horizontal with an easterly strike. They are variously displaced by normal and thrust faults.

The Grass Lakes succession is intruded by the extensive Grass Lake Plutonic Suite of Early Mississippian age. These well foliated and lineated granites and monzonites are medium- to coarse-grained and generally equigranular, although augen textures are present locally. Smaller bodies of the late Devonian North Lakes meta-diorite, which includes foliated hornblende-biotite meta-diorites, meta-gabbros, meta-pyroxenites and serpentinized ultramafic rocks, also intrude the Grass Lakes succession. Several weakly foliated to non-foliated peraluminous granitic mid-Cretaceous plutons intrude both the Grass Lakes succession and Grass Lake Plutonic Suite in the southern part of the region. Crosscutting relationships in this area suggest that this plutonic suite is late-kinematic with respect to deformation in the host rock.

## **8. Property Geology**

The Chris Property is underlain primarily by Late Devonian serpentinized ultramafic rocks (“Dum”) of the North Lake Meta-diorite Suite (Figure 5). These rocks are a distinctive green colour that is particularly visible from several kilometers away. To the north these rocks are in contact with flat lying tan-coloured quartz-mica schists (“Dq”) and to the south with Fyre Lake metavolcanic schists (“Df”). Murphy et al (2001) infer the ultramafic rocks to be in intrusive contact with the layered rocks.

## **9. Deposit Model**

Chrysoprase is green, gem quality, cryptocrystalline variety of chalcedony that is used in the jewelry industry as beads, cabochon cuts and carved figurines. A positive identification of the mineral was obtained by powder X-Ray Diffraction analysis completed at the University of British Columbia (pers. comm. Groat 2003). The 2004 exploration was also directed at hydrothermal lode gold-type deposits as well as VMS-type deposits. The Finlayson Lake Area has a number of VMS-type deposits that are well described in the Yukon Geology Program MINFILE database and summarized in Table 2.



Table 2 - Finlayson Lake Area VMS Deposits

MINFILE # Name	NTS Sheet	Host Rock (Murphy et al., 2001)	Resource
105G 034 Fyre Lake	105G/02	Fyre Lake meta-volcanic (DF)	15.4 million tonnes within which 8.2 million tonnes grade 2.1% Cu, 0.11% Co, and 0.73 g/t Au, using a 1.0% copper cut-off
105G 072 Wolverine	105 G/08	Wolverine Succession (MWcp/Mwt)	6.237 million tonnes grading 1.33% Cu, 1.55% Pb, 12.66% Zn, 1.76 g/t Au and 370.9 g/t Ag
105G 117 Kudz Ze Kayah	105G/07	Kudz Ze Kayah felsic meta-volcanic (DK)	11,100,000 tonnes averaging 5.61% Zn, 0.85% Cu, 1.56% Pb, 136.9 g/t Ag and 1.33 g/t Au
105G 118 Ice	105G/14	Campbell Range Succession basalts (PCb)	4,561,863 tonnes grading 1.48% Cu with minor gold, silver and cobalt
105G 143 GP4F	105G/07	Kudz Ze Kayah felsic Meta-volcanic (DK).	1.5 million tonnes grading 6.4% Zn and 3.10% Pb, 0.10% Cu, 90 g/t Ag and 2.0 g/t Au.

Murphy et al (2002) provide an excellent description of the VMS-type potential of the Finlayson Lake Area:

*“The recognition of the several different and sequentially developed paleogeographic settings within Yukon-Tanana Terrane has implications for the exploration for new mineral deposits. With the exception of the Fyre Lake deposit, all of the known volcanic-hosted massive sulphide deposits occur within rocks inferred to have been deposited in back-arc settings (Piercey and Murphy, 2000; Piercey, 2001b). The Kudz Ze Kayah and GP4F deposits formed in the Late Devonian back-arc region, while Wolverine Lake formed in the early Mississippian back-arc region, all of these in the footwall of the Money Creek thrust. The Ice deposit formed during rifting behind a coeval Early Permian arc recently recognized in southern Yukon (Roots et al., in press). As was noted by Piercey et al. (2000, 2001b), back-arc settings have the structural and thermal characteristics necessary for the generation and maintenance of large-scale hydrothermal circulatory systems that lead to the development of sea floor massive sulphide deposits.”*

## 10. Mineralization

Chrysoprase on the Chris Property is hosted within units of tan coloured magnesium oxide that occur in and stand out very clearly in the pale green serpentized ultramafic rock that underlies most of the property. The tan coloured material is much softer and recessive with respect to the chrysoprase. Its spectral image (Miller 2004) is dominated by magnesium and oxygen with subordinate iron suggesting that it is comprised of periclase [MgO] or brucite [Mg(OH)<sub>2</sub>] and possibly derived from olivine. Most importantly the tan material hosts minute opaque grains either as disseminations or as filling in minute fractures and seams. These opaque grains are compositionally variable and include the elements Ni, Fe, Cr, Si and Al. The morphology of some grains clearly indicate probable derivation from chromite series spinel. These pseudomorphs are termed ferrichromite and conclusively indicate that the chrysoprase was developed from and within an ultramafic protolith.



The chrysoprase commonly shows many textures indicative of recurring hydrothermal activity, including drusy cavities, coxcomb blades and chalcedonic banding. Overall this suggests that the chrysoprase may have been injected into the host ultramafic rock as a result of hydrothermal activity.

Previous work does not document any metal or gemstone occurrences on the Chris Property. The Yukon Geology MINFILE data base contains only one file describing a mineral occurrence in close proximity to the property summarized as follows:

**Table 3 - Adjacent Mineral Occurrences**

<b>MINFILE # Name</b>	<b>NTS Sheet</b>	<b>Deposit Type/Status</b>	<b>Location Description Best Assay Values</b>
105G 016 E1	105G/16	VMS/Drilled	5 km SW of SE Corner, CHRIS claim Disseminated lenses in metasediments 0.6% Pb, 0.6% Zn & 6.87 g/t Ag across 11.3 m

## **11. Exploration 2003**

### **11.1. Introduction**

Field exploration work was completed on the Chris Property from June to August, 2004. The work consisted of prospecting, outcrop examination and rock sampling and geochemical surveys. A 1500 kg mini-bulk sample of chrysoprase was also removed. Fourteen additional claims were staked on the western side of the property. The goal of the exploration work was to locate, examine and sample any and all chrysoprase occurrences on the property with the intent of establishing a reliable source of quality chrysoprase. A secondary goal was to assess the property for its gold and VMS potential.

All aspects of the exploration program were co-ordinated and supervised by Mark Fekete of Val d'Or, Quebec; a Professional Geologist registered in Quebec, the primary author of this report and a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101. The field crew consisted of prospectors Dan Ferderber and Ray Grenier of Val d'Or, Quebec. Mark Fekete also spent several days in the field and Greg Fekete of Whitehorse helped collect the mini-bulk sample. John Small and Anthony Fekete of Whitehorse provided transportation and expediting services. The work was carried out from a fly camp set up at the outlet of a small cirque lake draining the north end of the property. Helicopter support was provided by Kluane Airways based at Inconnu Lodge and by Heli-Dynamics based in Whitehorse.

On June 10, 2005 Carl Schulze, John Small and Karl Ziehe of Heli-Dynamics also conducted a one-day property examination, including sampling of chrysoprase and other hydrothermal quartz mineralization.



All sample sites were recorded with Garmin 12XL receivers in the NAD 83, Zone 9 map projection and plotted on appropriate maps included in this report. Data compilation, drafting and report preparation was done by Mark Fekete with the assistance of Nicole Beaudet from September 2004 to January 2005.

### **11.2. Prospecting, Outcrop Examination and Rock Sampling**

Chrysoprase on the Chris Property is hosted within tan coloured magnesium oxide that occurs in and stands out very clearly from the pale green serpentinized ultramafic rock that underlies most of the property. The first step in the prospecting work was to survey the property by helicopter and record the location of any tan coloured areas with a GPS receiver. The locations of rusty gossans and isolated white talus (possible quartz veins) were also recorded. Daily prospecting traverses were loosely planned according to the sites spotted from the helicopter. However, the prospectors sometimes followed claim lines, ridge tops, creek valleys and often wandered randomly according to the terrain or the weather. A total of 113 rock samples were collected. Sample locations and results are included in Appendix A. Assay certificates are included in Appendix B. Sample locations are plotted at a scale of 1:20,000 (Figure 6).

### **11.3. Geochemical Surveys**

The goal of the geochemical surveys was to identify areas of lode gold and VMS-type mineralization by locating favourable geochemical anomalies. A total of 10 silt samples were collected from all the creeks draining the property. A total of 29 soil samples were collected on claim lines and at random locations in conjunction with the prospecting. Sample locations and results are included in Appendix A. Assay certificates are included in Appendix B. Sample locations are plotted at a scale of 1:20,000 (Figure 6).

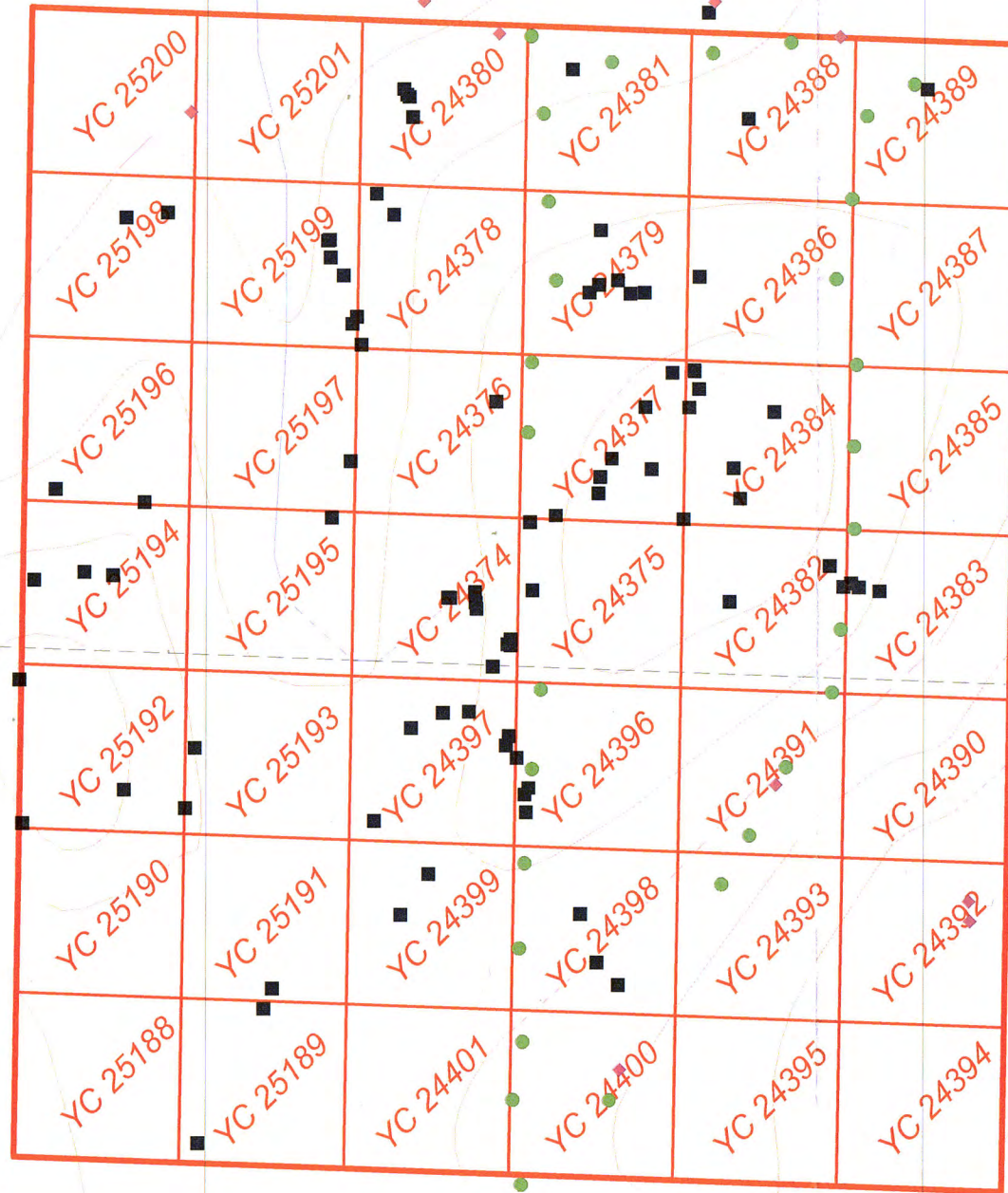
6822000 mN

6820000 mN

374000 mE

376000 mE

378000 mE



**LEGEND**

- ◆ Silt
- Soil
- Rock

**HINTERLAND METALS INC.**

**CHRIS PROPERTY**

**Sample Locations**

Date: 30/12/2005  
Author: MF  
Office: Val d'Or  
Drawing: 05-006  
Scale: 1:20000 NTS: 105 006 & 011 Projection: UTM Zone 9 (NAD 83)

0 200 400 800 metres



#### **11.4. Bulk Sample**

Significant chrysoprase mineralization was identified on Claim No. YC 24380 near the north boundary of the property at two sites known as the “Blue Feather” and “Green Feather” showings. A composite mini-bulk sample weighing approximately 1500 kg was removed by helicopter from these two showings to the Finlayson Airstrip. Approximately 950 kg was trucked to Whitehorse and is now stored at the Heli-dynamics hangar. Approximately 550 kg remains at the airstrip.

#### **11.5. Sampling and Analytical Procedures**

A description of each rock sample including its location, sample type (i.e. grab, float etc.), rock type and mineralization was recorded. A representative hand specimen marked with the appropriate sample number was also kept for later reference. The remainder of each sample was placed in a plastic sample bag marked with the appropriate sample number and sealed with flagging tape. Batches of rock samples were subsequently sealed in rice bags and delivered by courier to ALS Chemex Labs in North Vancouver B.C. These samples were analyzed for gold by 30 g Fire Assay with Atomic Absorption (AA) finish and for 27 other elements by partial acid digestion and Induced Coupled Plasma (ICP) Emission Spectroscopy finish.

Soil and silt samples were handled in a similar method as the rock samples. The location of each sample was recorded and the sample was placed in a Kraft envelope marked with the appropriate sample number. The samples were dried and batches of samples were subsequently sealed in rice bags and delivered by courier to ALS Chemex Labs in North Vancouver B.C. These samples were analyzed for gold by 30 g Fire Assay with Atomic Absorption (AA) finish and for 27 other elements by partial acid digestion and Induced Coupled Plasma (ICP) Emission Spectroscopy finish.

ALS Chemex follows an internal quality control program that uses a system of duplicates, blanks and standards. It is the author’s opinion that the sampling procedure, security measures, sample preparations and analytical methods described above were diligently followed and were adequate to meet industry standards commonly accepted for this level of exploration.

#### **11.6. Discussion of Results**

A total of twenty-two chrysoprase occurrences of various quality and quantity were found on the Chris Property in 2004. The chrysoprase at the Blue Feather and Green Feather showings is of such quality and quantity to provide a reliable source for the continued production of beads and cabochons. The only other site worth mentioning is the “Hangover Showing” which shows exceptional quality, blue coloured chrysoprase. However, this site is on a steep hillside and is difficult to access. Geochemistry is not very helpful for isolating chrysoprase. Anomalous arsenic, chrome and nickel values are omnipresent on the property and are generally related to the ultramafic host rather than the magnesium oxide units that contain the chrysoprase mineralization.





Geochemical results were disappointing for lode gold and VMS-type mineralization. The soil and silt samples did not produce any notable results. Gold values in rock varied from below detection limit to a maximum of 1.725 g/t Au in Sample No. 33519 on Claim YC 24382; this site warrants further investigation. Several other samples returned anomalous gold in the 100 to 500 ppm range but do not warrant further work. Silver values in almost all samples were below detection limit. Sample No. 33510 returned 15.0 g/t Ag, 3660 ppm Pb and 3950 ppm Zn from galena-bearing, rusty quartz float dug out of a creek bank south of the claim block. This float is at a relatively low elevation, its source is ambiguous and does not warrant follow-up. Three samples collected on Claim YC 24374 returned strong barium values ranging from 1610 to 5480 ppm Ba. The highest barium value (Sample No. 33553) occurs with 1.2 g/t Ag and 617 ppm Zn. These samples however were collected from discontinuous quartz-carbonate boudins less than 1 m wide and do not warrant follow-up. The most significant copper value was returned from Sample No. 33568 located on Claim YC 24384. A value of 8.00% Cu was returned for this sample, with 7.3 g/t Ag and 265 ppm Au. This sample was collected from subcrop at the contact between serpentinized ultramafic rocks ("Dum") and what appears to be Fyre Lake metavolcanic schist ("Df"). This site should definitely be revisited and thoroughly prospected for VMS-type mineralization.

Two samples collected during the June 10 visit returned low gold values of 0.082 and 0.011 g/t respectively; however antimony values, indicative of hydrothermal gold, were anomalous at 83 and 56 ppm respectively. Chrome values of 563 and 455 ppm and nickel values of 1215 and 943 ppm are common within ultramafic rocks.

## 12. Adjacent Properties

Information concerning adjacent properties is included in Sections 9 and 10 of this report. This information was obtained from the publicly available Yukon Geology Program MINFILE database. The author has not attempted to verify any of the information contained in the MINFILE reports and **any such information is not necessarily indicative of similar mineralization existing on either of the Chris Properties.** The author cautions the reader to distinguish between the descriptions of mineralization found on adjacent properties provided in this report and the descriptions of mineralization found on the Chris Property if and when any are provided.

## 13. Mineral Processing and Metallurgical Testing

To date, Hinterland has not completed any mineral processing and/or metallurgical testing on the Chris Property.

## 14. Mineral Resource and Mineral Reserve Estimates

No mineral resource or mineral reserve estimates exist for the Chris Property.

## 15. Other Relevant Data and Information

The author is not aware of any other information or explanation necessary to make this technical report more understandable and not misleading.



## 16. Conclusions

The Finlayson Lake Area shows an impressive record of mineral discoveries over the past decade. These discoveries include both volcanic massive sulphide-type base metal deposits and the Regal Ridge emerald deposit. Recent geological mapping surveys of the area on a regional scale and several technical studies on a property scale have contributed greatly to the overall understanding of the mineral potential of the area. The ongoing compilation and revision of the mineral occurrence database in terms of these recent surveys and studies provides new insights for further exploration in the area.

Although it is not nearly as valuable as emerald, chrysoprase is a material in demand that may generate significant cash flow from a small mining operation. The chrysoprase at the Blue Feather and Green Feather showings is of such quality and quantity to provide a reliable source for the continued production of beads and cabochons. At present, enough material can be easily removed by helicopter from these sites to provide an adequate amount for this purpose.

The site where Sample No. 33519 on Claim YC 24382 returned 1.725 g/t gold should be prospected further for lode-gold type mineralization. The site of Sample No. 33568 on Claim YC 24384, which returned 8.00% Cu, 7.3 g/t Ag and 265 ppm Au, should also be thoroughly prospected for VMS-type mineralization.

## 17. Recommendations

The main goal of the 2004 exploration was to locate a reliable supply of chrysoprase on the Chris Property. This goal has been met by the discovery of the Blue Feather and Green Feather showings. At this point no further chrysoprase exploration is required. The two sites with gold and copper mineralization mentioned above need to be revisited. This can be done when a trip is made to recover another mini-bulk sample of chrysoprase. No formal recommendations of further work is provided by this report.

## 18. References

Fekete, M. 2004. A Report of Prospecting and Geochemical Surveys, Dazzle, Gleam and Helen Properties and Chris Property, YMIP #03-048

Miller, A.L., 2003. Petrography, Ore Microscopy and Scanning Electron Microscope Investigation of Samples from the Helen Au-Ag Prospect and Chris Chrysoprase Prospect, Yukon

Mortensen, J.K. (comp.), 1999. YUKONAGE, An isotopic age database for the Yukon Territory. *In* Yukon Digital Geology, S.P. Gordey and A.J. Makepeace (comps.), Geological Survey of Canada, Open File D3826, and Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 1999-1(D),.





Murphy, D.C., Colpron, M., Gordey, S.P., Roots, C., Abbott, J.G. and Lipovsky, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105G), Yukon Territory. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33, 1:100 000 scale.

Murphy, D.C., Colpron, M., Roots, C.F., Gordey, S.P. and Abbott, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 1: Bedrock geology. *In* Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.



**APPENDIX A**  
**SAMPLE DESCRIPTIONS**

## Rocks 2004 Chris

ID	UTM mE	UTM Mn	Elev.	Claim No.	Type	Host	Chryso	Description
33501	374972	6821160	1829	24377	Float	MgO	NA	vein breccia
33502	375091	6821222	1856	24377	Float	MgO	NA	quartz-carbonate vein, vuggy
33503	375345	6821462	1874	24384	Sub-crop	Dq	NA	fine-grained, dark grey with some chalcopyrite and malachite
33504	375345	6821462	1874	24384	Float	Dq	NA	quartz-carbonate vein, vuggy
33505	375360	6821563	1827	24384	Float	Dq	NA	fine-grained, dark grey with some arsenopyrite and balck, opaque mineral
33506	375583	6821450	1757	24384	Grab	MgO	Spotted	vein breccia
33507	374380	6821830	1538	25199	Grab	MgO	Spotted	vein breccia - sample missing
33508	374341	6821929	1522	25199	Grab	MgO	Medium	vein breccia
33509	375017	6822405	1576	24381	Grab	Dq	NA	fine grained on cliff face
33510	375398	6822564	1554	NA	Float	Dq	NA	in bank, rusty quartz boulder, some galena and chalcopyrite
33511	376008	6822350	1654	24389	Sub-crop	Dq	NA	fine grained, light grey with some sulphides
33512	374748	6820945	1706	24374	Sub-crop	MgO	Spotted	vein breccia
33513	374750	6820916	1710	24374	Sub-crop	Dq	NA	rusty quartz boulder with slickensides
33514	374907	6820950	1769	24375	Grab	Dum	NA	seperintite, olivine? rich
33515	375330	6821150	1800	24384	Sub-crop	Dum	NA	dark grey, well foliated with some sulphides
33516	375470	6821293	1831	24384	Sub-crop	MgO	Spotted	wall rock with specks of chrysoprase
33517	375488	6821208	1804	24384	Sub-crop	MgO	Weak	vein breccia
33518	375777	6820961	1649	24382	Grab	MgO	Medium	massive but low grade
33519	375739	6821020	1649	24382	Grab	MgO	Weak	vein breccia
33520	375877	6820949	1603	24383	Grab	MgO	Weak	vein breccia
33521	374401	6821311	1603	25197	Float	MgO	Spotted	weakly magnetic, vein breccia
33522	374805	6821478	1762	24376	Float	Dum	NA	weathered brown ultramafic
33523	375064	6821783	1752	24379	Sub-crop	Dum	Weak	west shoulder of MgO outcrop, weathered purple brown, magnetic
33524	375180	6821780	1769	24379	Grab	MgO	Weak	vein breccia
33525	375145	6821817	1759	24379	Grab	MgO	Weak	massive but low grade
33526	375373	6821827	1726	24386	Sub-crop	Dum	NA	weathered brown ultramafic schist with some quartz veins on foliations
33527	375088	6819911	1573	24398	Grab	MgO	Strong	vein breccia
33528	375042	6820046	1640	24398	Grab	Dum	NA	black, fine grained schist with minor quartz veins on foliations
33529	374890	6820330	1743	24396	Grab	MgO	Spotted	vein breccia
33530	374897	6820398	1750	24396	Grab	MgO	Spotted	vein breccia
33531	374864	6820482	1779	24396	Grab	MgO	Spotted	vein breccia
33532	374835	6820517	1793	24397	Grab	Dum	NA	seperintite, olivine? rich
33533	374660	6820607	1759	24397	Sub-crop	MgO	Weak	mixed with ultramafic
33534	374572	6820565	1753	24397	Grab	Dum	NA	purple brown ultramafic with quartz veining
33535	374620	6820157	1745	24399	Grab	Dum	NA	purple brown ultramafic with quartz veining
33536	374543	6820044	1683	24399	Grab	Dum	NA	purple brown ultramafic with quartz veining
33537	374184	6819837	1693	25191	Sub-crop	Dum	NA	quartz-carbonate vein with pyrite in ultramafic
33538	374160	6819781	1680	25189	Float	MgO	Weak	vein breccia
33539	374290	6818690	1679	NA	Sub-crop	MgO	Weak	chysoprase on foliation planes
33540	374293	6818720	1754	NA	Float	Dq	NA	fine grained grey schist with pyrite cubes
33541	374394	6818700	1757	NA	Grab	MgO	Absent	Massive MgO
33542	374667	6818819	1675	NA	Grab	MgO	Weak	vein breccia
33543	374405	6818508	1793	NA	Sub-crop	MgO	Spotted	vein breccia

ID	UTM mE	UTM Mn	Elev.	Claim No.	Type	Host	Chryso	Description
33544	374297	6818622	1820	NA	Grab	MgO	Weak	vein breccia
33545	373660	6821000	1682	25194	Sub-crop	MgO	Absent	vein breccia
33546	373282	6820866	1802	NA	Grab	MgO	Absent	vein breccia
33547	373229	6820921	1794	NA	Sub-crop	MgO	Absent	vein breccia
33548	373037	6820841	1795	NA	Grab	Dum	NA	fine grained grey schist with pyrite cubes
33549	372362	6820121	1515	NA	Grab	MgO	Spotted	30 m wide vein breccia
33550	372339	6820138	1510	NA	Grab	MgO	Absent	vein breccia
33551	372428	6820629	1488	NA	Grab	Dum	Absent	fine grained grey schist with pyrite cubes
33552	372433	6820748	1501	NA	Grab	Dum	Absent	fine grained grey schist with pyrite cubes
33553	374846	6820796	1754	24374	Grab	Dum	Absent	fine grained, pale green schist with sulphides
33554	374847	6820813	1755	24374	Grab	Dum	Absent	rusty, cherty quartz
33555	374838	6820800	1755	24374	Sub-crop	Dum	Absent	rusty quartz
33556	373942	6820340	1746	25193	Sub-crop	Dum	NA	peridotite?, medium grained with sulphides, weakly magentic
33557	374798	6820737	1754	24374	Grab	Dum	NA	purple brown ultramafic with quartz veining
33558	374430	6821637	1593	24378	Grab	MgO	Absent	vein breccia
33559	374405	6821695	1575	25199	Grab	MgO	Weak	vein breccia
33560	374418	6821715	1575	25199	Grab	MgO	Spotted	vein breccia
33561	374521	6822000	1594	24378	Grab	Dum	NA	peridotite?, medium grained with sulphides, weakly magentic
33562	374573	6822272	1558	24380	Grab	MgO	Strong	vein breccia
33563	374564	6822328	1523	24380	Grab	MgO	Strong	vein breccia
33564	374472	6822058	1557	24378	Grab	MgO	Weak	vein breccia
33565	375372	6821514	1807	24384	Float	MgO	NA	fine grained grey schist with pyrite cubes
33566	374557	6822334	1535	24380	Grab	MgO	Strong	
33567	373968	6820509	NA	25193	Float	Dum	NA	ultramafic breccia
33568	375345	6821462	1874	24384	Sub-crop	Dq	NA	fine-grained, dark grey with some chalcopyrite and malachite
33601	374349	6821153	1593	25195	Grab	MgO	Weak	horizontal, 25 m thick
33602	374900	6821141	1790	24375	Grab	MgO	NA	white quartz vein adjacent to chrysoprase
33603	375096	6821957	1684	24379	Float	MgO	Weak	white quartz vein with coxcomb texture
33604	375091	6821804	1752	24379	Grab	MgO	Spotted	vein breccia
33605	375091	6821804	1752	24379	Grab	MgO	NA	vein breccia
33606	375220	6821783	1762	24379	Grab	MgO	Spotted	vein breccia
33607	375359	6821567	1822	24384	Grab	MgO	NA	minor sulphides
33608	375298	6821559	1825	24377	Float	MgO	NA	massive carbonate needles
33609	375223	6821463	NA	24377	Grab	MgO	NA	brick coloured quartz-carbonate
33610	375128	6821319	NA	24377	Grab	MgO	NA	bright white quartz-carbonate
33611	374679	6820929	NA	24374	Grab	MgO	Weak	NA
33612	375096	6821268	1861	24377	Float	MgO	Weak	vein breccia
33613	375240	6821290	1888	24377	Sub-crop	MgO	Weak	vein breccia
33614	374344	6821880	1545	25199	Grab	MgO	Weak	vein breccia
33615	374336	6821927	1540	25199	Sub-crop	MgO	Spotted	vein breccia
33616	375510	6822268	1626	24388	Grab	Dum	NA	soapstone texture, some tourmaline crystals
33617	374674	6820930	1688	24374	Sub-crop	MgO	NA	vein breccia
33618	374752	6820899	1715	24374	Grab	Dq	NA	horizontal quartz veins (boudins) in grey schist, some sulphides

## Rocks 2004 Chris

ID	UTM mE	UTM Mn	Elev.	Claim No.	Type	Host	Chryo	Description
33619	375460	6820919	1714	24382	Sub-crop	MgO	Medium	vein breccia
33620	375798	6820971	1655	24383	Grab	MgO	Medium	chrysoprase on foliation planes
33621	375819	6820960	1640	24383	Grab	MgO	Strong	T-033 (2003)
33622	373740	6820991	1654	24388	Float	Dum	NA	rusty brown ultramafic schist with some quartz and sulphides
33623	373580	6821232	1683	24389	Grab	Dum	NA	soapstone texture, rusty brown ultramafic
33624	373774	6821991	1555	24389	Grab	MgO	Spotted	vein breccia
33625	373890	6822005	1532	25198	Grab	MgO	Spotted	vein breccia
33626	373480	6820699	1826	25192	Float	MgO	Spotted	vein breccia
33627	375149	6819848	1544	24398	Grab	MgO	Strong	massive chrysoprase, translucent, blue colour, black chromite specs
33628	374886	6820380	1748	24396	Grab	MgO	Strong	massive chrysoprase, translucent, blue colour, black chromite specs
33629	374842	6820543	1788	24397	Grab	Dum	NA	rusty brown ultramafic schist with some quartz and sulphides
33630	374732	6820611	1774	24397	Grab	MgO	Spotted	vein breccia
33631	374468	6820305	1754	24397	Grab	Dum	NA	olivine rich rusty brown ultramafic
33632	374184	6819837	1693	25191	Grab	Dum	NA	olivine rich rusty brown ultramafic
33633	373978	6819406	1696	25189	Sub-crop	MgO	Weak	vein breccia
33634	374025	6819152	1722	NA	Grab	MgO	Weak	vein breccia
33635	374175	6818779	1792	NA	Sub-crop	MgO	Weak	vein breccia
33636	374307	6818875	1718	NA	Grab	MgO	Medium	vein breccia
33637	374261	6818828	1751	NA	Grab	MgO	Medium	vein breccia
33638	373520	6820978	1731	25194	Float	MgO	Spotted	vein breccia
33639	373371	6820883	1786	NA	Float	Dum	NA	rusty brown ultramafic schist with some quartz and sulphides, weakly magnetic
33640	373343	6820886	1789	NA	Float	MgO	Weak	vein breccia
33641	373013	6820650	1798	NA	Float	Dum	NA	boulders of rusty brown ultramafic
33642	373488	6820298	1836	25192	Float	MgO	Weak	vein breccia
33643	373771	6820392	1796	25192	Grab	MgO	NA	vein breccia
33644	373827	6821196	1767	25196	Grab	Dum	NA	reddish brown ultramafic with some serpentine
33645	374549	6822350	1519	24380	Grab	MgO	Strong	Feather Vein - pale green softer chrysoprase, 1,5 m wide, subvertical

June-2004 Rock Sample Descriptions, Chris Property

Hinterland Metals Inc.

Sample No.	Easting (UTM)	Northing (UTM)	Sample Type	Width (m)	Sample Description	Formation	Lithology	Modifier	Colour	Carbonate	Sulfidation	Alteration 1	Other	Mineral 1	Mineral 2	Mineral Amt (%)	Mineral Amt (%)	Date	Sampler	Comments	
										Presence											
RM269511	375010	6620020	CGr		Rc/Oc	Dum	U/m	Stwk	Gm	C2	S3		Lim 2	Chry		35		June 10/04	CS	Chrysoprase as replacement, stockworked	
RM269512	375010	6620020	CGr		Oc	Dum	U/m	Stwk	Gm-tan	C2	S1	Ph1	Lim 2	Chry	Mariposite	5		June 10/04	CS	25% fine chalcedony veins	



**APPENDIX B**  
**ASSAY CERTIFICATES**



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY  
ALS Canada Ltd.  
212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: **BREAKAWAY EXPLORATION MANAGEMENT INC.**  
144-D PERREAULT AVE  
VAL-D'OR PQ J9P 2G3

Page: 1  
Finalized Date: 23-SEP-2004  
Account: BREAK

## CERTIFICATE VA04059325

Project:

P.O. No.:

This report is for 131 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-SEP-2004.

The following have access to data associated with this certificate:

MARK FEKETE

## SAMPLE PREPARATION

ALS CODE DESCRIPTION

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

## ANALYTICAL PROCEDURES

ALS CODE DESCRIPTION INSTRUMENT

ME-ICP61 27 element four acid ICP-AES ICP-AES  
Cu-AA62 Ore grade Cu - four acid / AAS AAS  
Au-AA23 Au 30g FA-AA finish AAS

To: **BREAKAWAY EXPLORATION MANAGEMENT INC.**  
ATTN: MARK FEKETE  
144-D PERREAULT AVE  
VAL-D'OR PQ J9P 2G3

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**

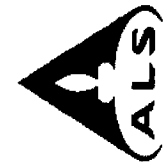
ALS Canada Ltd.  
 212 Brooksbank Avenue  
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To: **BREAKAWAY EXPLORATION MANAGEMENT INC.**  
**144-D PERREAULT AVE**  
**VAL-D'OR PQ J9P 2G3**

Page: 2 - A  
 Total # Pages: 5 (A - B)  
 Finalized Date: 23-SEP-2004  
 Account: BREAK

**CERTIFICATE OF ANALYSIS VA04059325**

Sample Description	Method Analyte Units LOR	WEL-21 Recvd Wt. kg	Au-AAS3 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %
33501		1.40	<0.005	<0.5	5.67	<5	110	<2	6.15	<0.5	25	283	45	4.88	0.24
33502		1.48	<0.005	<0.5	0.71	11	20	<2	19.45	<0.5	8	24	15	4.00	0.05
33503		1.22	0.068	1.2	8.11	60	30	<2	0.28	<0.5	220	416	8850	14.10	0.04
33504		1.32	0.062	0.7	0.70	203	40	<2	0.10	<0.5	107	3380	2210	16.50	0.01
33505		1.60	<0.005	0.6	8.53	<5	60	<2	5.95	<0.5	19	251	54	4.32	0.12
33506		2.60	<0.005	<0.5	0.34	5	110	<2	0.27	<0.5	80	2380	40	4.57	0.08
33508		1.28	0.120	0.7	0.25	98	130	<2	0.50	<0.5	82	2200	61	3.04	0.02
33509		1.24	<0.005	<0.5	3.80	<5	200	<2	0.10	<0.5	5	345	51	2.27	0.02
33510		1.48	0.006	15.0	0.06	5	60	12	0.64	76.8	1	315	69	1.82	0.01
33511		1.14	<0.005	<0.5	3.52	<5	2410	<2	0.04	1.4	<1	249	8	3.31	3.14
33512		0.62	<0.005	<0.5	1.44	284	380	<2	10.15	<0.5	35	1270	5	4.34	0.04
33513		0.90	<0.005	<0.5	1.78	<5	450	<2	1.22	0.8	3	348	35	1.80	0.04
33514		0.98	<0.005	<0.5	1.38	<6	320	<2	0.05	<0.5	90	1585	13	5.04	0.01
33515		0.92	0.013	<0.5	5.83	<5	120	<2	0.85	<0.5	97	366	1135	18.10	0.45
33516		0.92	<0.005	<0.5	3.80	<5	90	<2	13.45	<0.5	65	1520	4	5.32	0.16
33517		1.08	<0.005	<0.5	0.50	<5	20	<2	2.23	<0.5	88	1375	32	4.30	0.03
33518		1.02	<0.005	<0.5	0.13	<5	40	<2	8.91	<0.5	52	281	2	2.15	<0.01
33519		1.48	1.725	0.5	0.26	21	80	<2	0.40	<0.5	69	1375	6	4.73	0.09
33520		1.22	<0.005	<0.5	1.48	79	180	<2	10.45	<0.5	31	844	2	3.50	0.17
33521		0.94	0.288	<0.5	0.16	<5	10	<2	0.20	<0.5	91	1420	5	4.72	<0.01
33522		0.68	0.020	<0.5	0.31	<5	10	<2	0.03	<0.5	120	1840	5	6.35	<0.01
33523		0.92	0.043	<0.5	0.09	112	10	<2	0.08	<0.5	88	1680	7	5.90	<0.01
33524		1.24	0.006	<0.5	0.46	93	90	<2	1.96	<0.5	78	1480	4	4.22	0.05
33525		1.34	<0.005	<0.5	1.01	48	70	<2	0.80	<0.5	94	1780	8	5.29	0.05
33526		0.72	<0.005	<0.5	4.55	48	130	<2	18.20	<0.5	43	416	13	7.18	0.18
33527		2.70	0.383	<0.5	0.60	202	180	<2	4.40	<0.5	79	2330	4	4.88	0.05
33528		0.76	<0.005	<0.5	2.02	34	140	<2	0.13	<0.5	6	322	54	1.84	0.20
33529		0.82	<0.005	<0.5	0.83	79	110	<2	3.69	<0.5	84	1715	3	5.14	0.07
33530		0.44	0.129	<0.5	0.25	559	90	<2	3.55	<0.5	54	1105	2	3.98	0.08
33531		0.82	0.123	<0.5	0.70	191	230	<2	11.00	<0.5	38	777	3	4.13	0.07
33532		0.36	<0.005	<0.5	0.38	102	40	<2	1.83	<0.5	88	1330	10	4.84	<0.01
33533		0.60	0.016	<0.5	0.23	316	50	<2	0.62	<0.5	108	1915	7	5.88	0.06
33534		0.62	<0.005	<0.5	0.10	534	10	<2	0.09	<0.5	114	1295	2	5.30	<0.01
33535		0.56	<0.005	<0.5	1.10	6	30	<2	0.46	<0.5	94	1770	3	5.06	0.01
33536		0.36	<0.005	<0.5	1.15	<6	40	<2	0.09	<0.5	108	1700	3	5.81	0.01
33537		0.74	<0.005	<0.5	0.03	<6	10	<2	23.6	<0.5	8	15	1	2.45	<0.01
33538		0.50	<0.005	<0.5	0.83	<6	60	<2	1.46	<0.5	90	854	23	4.88	0.05
33539		0.58	<0.005	<0.5	0.58	688	30	<2	9.84	<0.5	37	1185	16	2.88	0.25
33540		0.26	<0.005	<0.5	0.45	14	40	<2	3.04	<0.5	89	1980	158	4.02	0.01
33541		0.74	<0.005	<0.5	2.32	5	130	<2	7.91	<0.5	13	264	4	3.89	0.58



**ALS Chemex**  
EXCELLENCE IN ANALYTICAL CHEMISTRY

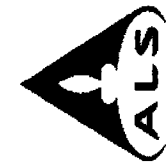
ALS Canada Ltd.  
212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: BREAKAWAY EXPLORATION MANAGEMENT  
INC.  
144-D PERREAULT AVE  
VAL-D'OR PQ J9P 2G3

Page: 2 - B  
Total # Pages: 5 (A - B)  
Finalized Date: 23-SEP-2004  
Account: BREAK

**CERTIFICATE OF ANALYSIS VA04059325**

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm S	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sr ppm 1	ME-ICP61 Tl % 0.01	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	Cu-AA82 Cu % 0.01
33501		3.40	1120	2	0.82	86	120	2	0.01	8	111	0.23	200	<10	65	
33502		10.15	1085	<1	0.01	23	10	8	<0.01	9	530	0.03	77	<10	53	
33503		7.48	1080	2	0.01	756	130	4	0.30	5	5	0.25	323	<10	80	
33504		0.30	207	4	<0.01	267	130	5	0.15	9	4	0.01	161	<10	85	
33505		4.88	888	2	3.15	71	150	2	0.80	6	285	0.35	258	<10	23	
33506		12.15	779	1	0.02	1325	20	5	0.07	14	23	0.01	31	<10	23	
33508		12.55	577	1	0.01	1485	20	2	0.04	137	46	<0.01	30	<10	76	
33509		0.86	168	3	2.54	33	460	6	0.14	6	27	0.24	89	<10	45	
33510		0.31	321	1	0.02	17	120	3680	0.79	8	42	<0.01	4	<10	3950	
33511		0.12	66	1	0.08	13	240	75	0.09	<5	788	0.08	20	<10	102	
33512		10.40	2270	1	0.01	605	40	20	0.01	10	1350	0.02	75	<10	121	
33513		0.48	1465	2	0.80	23	220	61	0.10	5	137	0.02	7	<10	89	
33514		20.3	669	<1	0.01	2070	<10	8	0.02	<5	11	0.01	38	<10	52	
33515		3.78	544	<1	0.01	110	180	10	0.10	11	24	0.29	267	<10	10	
33516		10.10	1290	4	0.01	507	50	3	<0.01	7	143	0.07	120	20	34	
33517		18.10	801	<1	<0.01	1595	<10	6	<0.01	11	88	0.01	29	<10	47	
33518		18.45	940	1	<0.01	1220	<10	3	<0.01	88	862	<0.01	10	<10	10	
33519		17.20	942	<1	0.01	1500	10	5	<0.01	57	81	<0.01	18	<10	23	
33520		8.19	2780	<1	0.01	641	50	6	<0.01	28	314	0.04	53	<10	48	
33521		20.2	814	1	<0.01	2100	<10	3	<0.01	10	29	<0.01	22	<10	34	
33522		22.3	1050	1	<0.01	2420	10	2	0.02	9	1	<0.01	28	10	28	
33523		19.80	670	1	<0.01	1635	<10	3	<0.01	30	4	<0.01	26	<10	29	
33524		15.80	485	<1	<0.01	1810	20	3	<0.01	49	154	<0.01	20	<10	32	
33525		18.00	423	<1	<0.01	1920	10	2	<0.01	30	92	0.02	51	<10	36	
33526		5.20	2530	1	0.01	287	920	6	<0.01	<5	1355	1.12	117	<10	118	
33527		12.10	463	1	0.01	1735	<10	2	<0.01	136	393	0.01	34	10	46	
33528		0.34	371	1	0.03	43	160	18	<0.01	14	10	0.12	38	<10	23	
33529		14.75	504	<1	<0.01	1765	20	2	<0.01	132	228	<0.01	20	<10	22	
33530		15.55	768	<1	0.01	1125	<10	3	<0.01	63	710	<0.01	19	<10	36	
33531		10.25	1245	<1	0.01	701	20	2	<0.01	44	471	0.01	33	10	30	
33532		22.2	365	<1	<0.01	1975	<10	3	0.01	14	173	0.01	28	<10	46	
33533		19.45	1430	<1	<0.01	1755	20	7	0.01	822	25	<0.01	26	10	68	
33534		21.3	1480	<1	0.01	1685	<10	<2	<0.01	140	6	<0.01	18	<10	35	
33535		21.5	658	<1	0.01	2180	<10	2	0.01	5	4	0.02	45	<10	45	
33536		21.8	887	<1	<0.01	2160	<10	3	0.01	8	4	0.02	37	<10	69	
33537		11.20	4100	<1	<0.01	46	<10	6	0.03	<5	208	<0.01	3	<10	3	
33538		16.80	752	<1	0.02	1675	<10	2	0.02	5	27	0.03	22	<10	24	
33539		9.17	720	1	<0.01	773	<10	2	0.01	26	266	0.01	17	10	31	
33540		13.35	337	<1	<0.01	1640	<10	<2	0.44	<5	42	<0.01	25	<10	50	
33541		3.54	908	2	0.05	41	50	<2	0.01	<5	110	0.07	100	<10	14	



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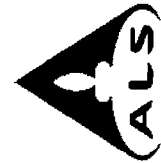
To: **BREAKWAY EXPLORATION MANAGEMENT INC.**

**144-D PERREAU AV  
 VAL-D'OR PQ J9P 2G3**

Page: 3 - A  
 Total # Pages: 5 (A - B)  
 Finalized Date: 23-SEP-2004  
 Account: BREAK

**CERTIFICATE OF ANALYSIS VA04059325**

Method Analyte Units LOR	WBI-21 Recvd Wt. kg	Au-AA43 Au ppm	ME-ICP61 Au ppm	ME-ICP61 Ag %	ME-ICP61 Al ppm	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %
	0.60	<0.005	<0.5	2.00	<5	10	20	<2	1.40	<0.5	22	2180	96	1.63	0.02
33542	0.64	<0.005	<0.5	3.51	<5	30	30	<2	9.67	<0.5	66	1695	6	3.16	0.06
33543	0.60	<0.005	<0.5	2.35	<5	60	60	<2	11.70	<0.5	90	1470	2	3.79	0.08
33544	0.36	<0.005	<0.5	0.67	<5	30	30	<2	14.80	<0.5	41	609	7	3.82	<0.01
33545	0.60	<0.005	<0.5	2.50	<5	130	130	<2	16.25	<0.5	12	52	2	2.94	0.82
33546	0.84	<0.005	<0.5	2.17	10	80	80	<2	11.90	<0.5	13	102	35	4.06	0.59
33547	0.98	<0.005	<0.5	8.03	6	70	70	<2	6.33	<0.5	42	202	91	8.84	0.05
33548	0.52	<0.005	<0.5	0.27	17	80	83	<2	3.17	<0.5	83	1620	4	4.26	0.03
33549	0.72	<0.005	<0.5	0.11	24	40	40	<2	0.27	<0.5	28	737	4	1.85	0.02
33550	1.06	<0.005	<0.5	0.51	80	110	110	<2	4.20	<0.5	71	1595	7	4.21	0.13
33551	0.78	<0.005	<0.5	7.37	10	120	120	<2	0.13	<0.5	66	366	44	15.25	<0.01
33552	1.20	0.005	1.2	5.78	71	5480	5480	2	0.05	3.4	1	171	6	2.07	3.07
33553	0.68	<0.005	<0.5	2.81	26	1610	1610	<2	0.02	<0.5	1	215	4	0.60	0.80
33554	1.02	<0.005	<0.5	2.00	37	1710	1710	<2	0.20	<0.5	1	333	2	1.22	0.82
33555	1.04	<0.005	<0.5	8.29	<5	100	100	<2	4.47	<0.5	30	147	38	6.46	0.09
33556	0.96	<0.005	<0.5	2.59	480	30	30	<2	7.23	<0.5	38	974	4	3.25	0.02
33557	1.08	0.005	<0.5	0.11	28	90	90	<2	0.31	<0.5	34	640	16	2.56	0.01
33558	1.00	0.008	<0.5	0.48	12	110	110	<2	0.38	<0.5	68	1155	7	4.33	0.07
33559	0.70	0.096	<0.5	0.24	83	30	30	<2	2.36	<0.5	82	1355	12	5.17	0.02
33560	0.72	0.005	<0.5	0.17	154	50	50	<2	0.10	<0.5	94	1780	36	5.88	<0.01
33561	3.62	0.015	<0.5	1.54	87	170	170	<2	2.22	<0.5	44	1425	16	2.93	0.08
33562	1.64	<0.005	<0.5	2.46	120	180	180	<2	4.96	<0.5	44	1245	35	2.45	0.06
33563	1.04	<0.005	<0.5	0.27	157	40	40	<2	0.15	<0.5	68	1380	3	3.29	0.03
33564	1.60	<0.005	<0.5	8.87	<5	40	40	<2	4.40	<0.5	50	238	34	6.78	0.05
33565	2.82	<0.005	<0.5	1.71	52	160	160	<2	5.75	<0.5	60	1270	86	4.28	0.11
33566	0.82	<0.005	<0.5	1.32	<5	20	20	<2	5.09	<0.5	72	843	11	4.05	0.01
33567	1.00	0.265	7.3	1.88	76	20	20	<2	0.12	<0.5	333	2290	>100000	11.65	<0.01
33612	1.42	<0.005	<0.5	1.26	10	30	30	<2	18.15	<0.5	14	41	198	3.36	0.08
33613	1.46	<0.005	<0.5	7.14	9	140	140	<2	6.00	<0.5	220	4.72	22	4.72	1.62
33614	2.00	0.013	<0.5	0.31	122	110	110	<2	0.95	<0.5	79	1035	110	4.31	0.03
33615	1.94	0.018	<0.5	0.18	109	250	250	<2	0.46	<0.5	79	1405	8	3.67	0.03
33616	1.92	<0.005	<0.5	1.76	570	60	60	<2	0.38	<0.5	109	1690	10	5.18	0.01
33617	1.26	<0.005	<0.5	1.95	843	180	180	<2	11.90	<0.5	30	1010	14	4.16	0.02
33618	1.94	<0.005	<0.5	1.70	17	640	640	<2	0.69	<0.5	6	832	20	1.45	0.27
33619	1.94	0.042	<0.5	1.44	17	880	880	<2	1.95	<0.5	73	1665	4	3.36	0.02
33620	1.62	<0.005	<0.5	0.28	9	70	70	<2	1.46	<0.5	79	1395	3	4.10	0.01
33621	1.50	<0.005	<0.5	0.82	28	510	510	<2	3.09	<0.5	58	1000	6	2.82	0.32
33622	1.64	<0.005	<0.5	1.98	19	50	50	<2	6.63	<0.5	59	1270	33	4.56	0.03
33623	0.90	<0.005	<0.5	0.80	6	90	90	<2	0.04	<0.5	94	1575	8	4.95	<0.01
33624	1.12	<0.005	<0.5	0.21	<5	150	150	<2	0.32	<0.5	77	1455	4	3.47	0.02



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
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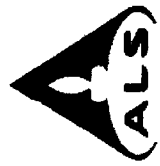
To: BREAKAWAY EXPLORATION MANAGEMENT  
 INC.

144-D PERREAULT AVE  
 VAL-D'OR PQ J9P 2G3

Page: 3 - B  
 Total # Pages: 5 (A - B)  
 Finalized Date: 23-SEP-2004  
 Account: BREAK

**CERTIFICATE OF ANALYSIS VA04059325**

Sample Description	Method Analyte Units LOR	ME-ICP61 Mg %	ME-ICP61 Min ppm	ME-ICP61 Mo ppm	ME-ICP61 Na %	ME-ICP61 Ni ppm	ME-ICP61 P ppm	ME-ICP61 Pb ppm	ME-ICP61 Sb ppm	ME-ICP61 Se ppm	ME-ICP61 Sr ppm	ME-ICP61 Ti %	ME-ICP61 V ppm	ME-ICP61 W ppm	ME-ICP61 Zn ppm	Cu-AAS2 Cu %
33542		1.30	223	2	<0.01	594	20	<2	<5	<5	24	0.01	60	<10	14	
33543		8.02	846	<1	<0.01	2080	60	<2	<5	<5	114	0.10	48	<10	41	
33544		6.73	737	1	0.02	1870	20	<2	<5	<5	223	0.05	33	<10	36	
33545		10.10	1135	<1	<0.01	556	10	<2	<5	<5	438	0.14	100	<10	22	
33546		7.98	814	<1	0.09	37	110	<2	<5	<5	297	0.14	127	<10	12	
33547		5.72	1320	3	0.03	35	50	<2	<5	<5	280	0.08	130	10	32	
33548		4.21	950	6	0.39	51	480	<2	<5	<5	252	0.74	270	<10	30	
33549		15.25	977	<1	0.01	1520	20	<2	166	238	20	0.01	20	<10	70	
33550		10.30	342	2	0.01	617	10	<2	138	16	9	<0.01	7	<10	9	
33551		13.05	556	<1	0.01	1660	10	<2	9	98	32	<0.01	32	<10	37	
33552		5.28	1190	<1	<0.01	64	180	<2	<5	<5	9	0.25	242	<10	27	
33553		0.58	167	7	0.05	12	310	60	<5	<5	14	0.15	11	<10	617	
33554		0.08	21	3	3.40	9	110	31	<5	<5	12	0.11	8	<10	20	
33555		0.23	286	1	0.30	9	100	20	<5	<5	17	0.05	5	<10	33	
33556		3.26	999	1	4.49	69	170	<2	<5	<5	138	0.31	297	<10	43	
33557		7.58	1880	1	0.01	713	20	6	5	777	24	0.04	58	<10	88	
33558		15.80	315	<1	0.01	759	10	<2	51	24	212	<0.01	13	<10	20	
33559		18.50	343	<1	0.01	1725	10	<2	15	32	23	0.01	28	10	22	
33560		21.3	766	1	<0.01	1975	10	<2	41	230	18	0.01	18	<10	37	
33561		19.80	502	<1	<0.01	2340	<10	<2	17	17	38	<0.01	38	<10	41	
33562		7.67	491	1	0.01	860	10	<2	46	102	51	0.01	51	<10	24	
33563		5.40	618	1	0.01	919	20	<2	45	212	72	0.10	72	<10	28	
33564		14.25	393	<1	<0.01	1200	<10	<2	15	23	20	<0.01	20	<10	29	
33565		5.17	873	<1	3.79	281	150	<2	<5	210	349	0.48	349	<10	37	
33566		12.50	1025	1	0.02	1310	70	<2	8	181	61	0.05	61	<10	34	
33567		15.30	797	<1	0.10	1185	60	<2	<5	12	33	0.05	33	<10	31	
33568		1.75	299	6	<0.01	310	540	3	<5	2	285	0.04	285	<10	74	8.00
33812		8.83	1030	15	0.04	80	50	8	14	514	48	0.03	48	<10	84	
33813		3.20	748	6	0.12	98	120	<2	5	51	198	0.19	198	<10	22	
33814		21.3	819	<1	<0.01	1565	30	3	67	71	45	<0.01	45	<10	45	
33815		18.45	555	1	0.01	1485	20	2	76	56	65	<0.01	65	<10	20	
33816		19.45	399	<1	<0.01	1970	10	<2	15	40	65	0.05	65	<10	53	
33817		8.22	4080	1	<0.01	550	50	28	7	2460	48	0.05	48	<10	140	
33818		15.85	1375	6	0.70	68	210	46	<5	78	13	0.03	13	10	37	
33819		15.85	542	<1	0.01	1670	10	<2	71	139	41	0.02	41	<10	24	
33820		21.0	916	<1	<0.01	2080	10	<2	45	62	23	<0.01	23	<10	43	
33821		15.20	468	1	0.01	1195	10	3	155	148	28	0.01	28	<10	33	
33622		14.50	983	1	0.16	954	160	<2	<5	11	46	0.10	46	<10	51	
33623		19.55	730	<1	<0.01	2140	10	<2	<5	4	28	0.02	28	<10	45	
33824		15.85	795	<1	0.01	1750	10	3	6	34	13	<0.01	13	<10	28	



**CERTIFICATE OF ANALYSIS VA04059325**

Sample Description	Method Analyte Units LOR	WB-31 Revised Wt. Inz	Au-AA23 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %
33625		1.16	<0.005	<0.5	0.17	<5	160	<0.5	<2	0.45	<0.5	86	1610	8	4.52	0.02
33626		1.66	<0.005	<0.5	2.27	<5	110	<0.5	<2	13.96	<0.5	41	670	1	3.37	0.01
33627		1.30	0.283	<0.5	0.26	233	140	<0.5	<2	0.66	<0.5	66	1766	7	3.11	0.01
33628		1.26	0.007	<0.5	0.42	113	90	<0.5	<2	6.27	<0.5	85	1616	2	4.14	0.03
33629		0.66	<0.005	<0.5	4.97	54	600	0.8	<2	5.97	<0.5	21	311	13	4.62	0.30
33630		0.82	0.076	<0.5	0.25	9	220	<0.5	<2	0.37	<0.5	69	1336	2	4.34	0.01
33631		1.04	<0.005	<0.5	1.39	<5	30	<0.5	<2	0.82	<0.5	92	1470	14	4.93	0.01
33632		0.92	<0.005	<0.5	0.69	<5	10	<0.5	<2	12.46	<0.5	63	677	9	3.96	<0.01
33633		0.66	<0.005	<0.5	4.18	<5	290	<0.5	<2	10.60	<0.5	28	264	46	4.60	1.45
33634		1.00	<0.005	<0.5	7.99	<5	220	<0.5	<2	3.23	<0.5	37	126	1	6.33	0.40
33635		1.12	<0.005	<0.5	1.10	6	60	<0.5	<2	0.07	<0.5	64	1646	1	3.69	0.02
33636		0.74	<0.005	<0.5	3.40	27	430	0.5	<2	6.71	<0.5	78	5090	3	3.82	1.12
33637		0.86	<0.005	<0.5	0.96	<5	20	<0.5	<2	4.48	<0.5	66	1630	2	3.24	0.02
33638		1.02	<0.005	<0.5	1.14	6	30	<0.5	<2	14.96	<0.5	71	1716	21	3.91	0.07
33639		0.90	<0.005	<0.5	6.77	<5	50	<0.5	<2	6.67	<0.5	40	697	6	5.26	0.02
33640		0.80	<0.005	<0.5	1.64	6	30	<0.5	<2	11.00	<0.5	28	922	2	3.07	0.07
33641		1.08	<0.005	<0.5	6.70	10	40	<0.5	2	6.61	<0.5	55	160	69	6.14	0.01
33642		0.96	<0.005	<0.5	6.13	6	320	<0.5	<2	6.64	<0.5	43	671	73	6.24	1.14
33643		0.88	<0.005	<0.5	6.56	<5	20	<0.5	<2	6.66	<0.5	24	99	71	3.74	0.04
33644		0.94	<0.005	<0.5	1.86	<5	10	<0.5	<2	2.72	<0.5	76	1260	4	4.60	0.01
33645		0.96	<0.005	<0.5	0.76	28	180	<0.5	<2	3.34	<0.5	45	1055	3	4.45	0.16
33646		1.10	0.289	1.8	6.73	192	270	4.6	511	0.46	1.0	2	176	25	2.31	1.88
33647		1.04	0.037	59.6	0.36	25	20	<0.5	4100	0.51	2.0	1	269	56	1.00	0.21
33648		1.08	0.108	4.8	5.62	<5	130	13.6	1485	0.45	<0.5	2	241	80	1.40	0.88
33649		0.70	<0.005	1.2	6.11	77	200	1.7	14	1.49	<0.5	13	164	208	1.69	0.80
33650		1.26	0.016	<0.5	6.10	<5	130	38.1	64	10.35	<0.5	18	43	148	6.52	0.41
33701		1.06	0.007	<0.5	6.41	<5	210	4.3	10	0.29	<0.5	1	252	9	1.00	3.66
33702		0.56	0.012	<0.5	3.40	<5	160	3.8	10	0.57	<0.5	6	236	26	1.60	0.78
33703		1.34	3.41	2.9	1.21	2410	100	0.8	1855	0.13	<0.5	87	185	1215	12.75	0.87
33704		0.94	0.965	2.1	1.79	774	130	1.2	426	1.01	<0.5	24	348	72	2.14	1.20
33706		1.20	2.06	1.4	0.24	8980	30	<0.5	760	10.36	<0.5	46	219	60	1.43	0.16
33708		0.96	0.023	<0.5	6.64	73	60	8.0	10	11.36	<0.5	72	146	266	13.46	0.46
33707		1.46	<0.005	<0.5	7.40	12	70	32.3	10	12.00	<0.5	34	158	352	11.15	0.30
33708		1.60	<0.005	0.7	6.87	33	70	1.5	<2	10.45	<0.5	181	298	1130	13.65	0.41
33709		0.84	<0.005	<0.5	1.83	6	80	1.0	92	0.10	<0.5	9	328	22	0.66	1.00
33710		1.34	0.009	1.3	1.57	421	60	6.0	11	0.62	<0.5	27	47	2770	38.6	0.51
33711		0.82	<0.005	<0.5	0.12	<5	10	<0.5	<2	0.02	<0.5	1	376	16	0.66	0.03
33712		1.32	<0.005	<0.5	6.27	23	30	1.0	<2	16.80	<0.5	11	148	11	3.04	0.11
33713		1.40	0.771	2.9	1.60	4140	70	1.2	743	0.59	<0.5	39	545	211	6.24	1.36
33714		1.64	0.122	26.4	6.60	>10000	620	3.6	99	0.67	14.5	24	264	3230	10.66	4.80

Chris

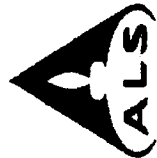
Helena

# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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To: BREAKAWAY EXPLORATION MANAGEMENT INC.  
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Page: 4 - B  
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Sample Description	Method Analyte Units LOR	ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61		ME-ICP61								
		Me % 0.01	Me ppm	Mo % 0.01	Mo ppm	Ni % 0.01	Ni ppm	Na % 0.01	Na ppm	Ne % 0.01	Ne ppm	Fe % 0.01	Fe ppm	Co % 0.01	Co ppm	Cr % 0.01	Cr ppm	Mn % 0.01	Mn ppm	Pb % 0.01	Pb ppm	S % 0.01	S ppm	Ca % 0.01	Ca ppm	Si % 0.01	Si ppm	Al % 0.01
33626		17.25	763	<1	1665	<1	10	<2	<2	<2	0.01	9	29	29	<10	<10	<10	<10	<10	<10	16	16	<10	<10	<10	<10	25	25
33628		6.90	1265	1	800	1	80	<2	<2	<2	<5	365	365	<10	<10	0.05	70	<10	<10	0.05	70	70	70	<10	<10	25	25	
33627		16.10	524	1	1070	1	10	4	4	4	<0.01	172	88	88	<10	<10	<0.01	22	<0.01	22	22	22	<10	<10	36	36		
33628		16.25	942	<1	2190	<1	10	<2	<2	<2	<0.01	84	578	578	<10	<10	<0.01	25	<0.01	25	25	25	<10	<10	36	36		
33629		3.71	1545	<1	98	<1	560	2	2	2	<0.01	5	134	134	<10	<10	0.47	146	0.47	146	146	146	<10	<10	53	53		
33630		20.1	669	<1	1806	<1	10	<2	<2	<2	0.01	65	30	30	<10	<10	0.01	22	0.01	22	22	22	<10	<10	35	35		
33631		20.4	636	<1	1910	<1	60	<2	<2	<2	<0.01	<5	4	4	<10	<10	0.05	14	0.05	14	14	14	<10	<10	52	52		
33632		16.10	2460	<1	1060	<1	50	<2	<2	<2	0.10	<5	74	74	<10	<10	0.02	30	0.02	30	30	30	<10	<10	22	22		
33633		5.37	2180	<1	106	<1	80	3	3	3	<0.01	5	175	175	<10	<10	0.13	160	0.13	160	160	160	<10	<10	215	215		
33634		3.94	655	1	51	1	370	<2	<2	<2	<0.01	<5	87	87	<10	<10	0.55	270	0.55	270	270	270	<10	<10	16	16		
33635		7.72	607	1	1475	1	10	<2	<2	<2	0.01	<5	191	191	<10	<10	0.01	47	0.01	47	47	47	<10	<10	36	36		
33636		5.14	964	1	1275	1	30	<2	<2	<2	<0.01	<5	305	305	<10	<10	0.02	97	0.02	97	97	97	<10	<10	71	71		
33637		9.47	808	2	978	2	10	<2	<2	<2	<0.01	<5	98	98	<10	<10	0.02	39	0.02	39	39	39	<10	<10	37	37		
33638		7.65	1065	<1	1990	<1	30	<2	<2	<2	0.01	<5	513	513	<10	<10	<0.01	38	<0.01	38	38	38	<10	<10	50	50		
33639		8.34	1230	<1	889	<1	270	<2	<2	<2	0.34	<5	102	102	<10	<10	0.16	169	0.16	169	169	169	<10	<10	36	36		
33640		5.91	906	1	435	1	330	<2	<2	<2	0.01	<5	361	361	<10	<10	0.06	55	0.06	55	55	55	<10	<10	32	32		
33641		2.12	941	1	32	1	470	<2	<2	<2	2.48	<5	289	289	<10	<10	0.61	294	0.61	294	294	294	<10	<10	31	31		
33642		4.46	1180	<1	214	<1	90	<2	<2	<2	0.07	5	103	103	<10	<10	0.16	194	0.16	194	194	194	<10	<10	15	15		
33643		3.61	900	<1	53	<1	100	<2	<2	<2	0.19	<5	116	116	<10	<10	0.17	179	0.17	179	179	179	<10	<10	15	15		
33644		18.50	938	<1	1760	<1	50	<2	<2	<2	0.01	<5	5	5	<10	<10	0.05	36	0.05	36	36	36	<10	<10	52	52		
33645		13.35	739	<1	1070	<1	20	<2	<2	<2	<0.01	<5	122	122	<10	<10	0.01	45	0.01	45	45	45	<10	<10	40	40		
33646		1.23	420	3	21	3	360	127	127	127	0.02	<5	62	62	<10	<10	0.15	110	0.15	110	110	110	<10	<10	274	274		
33647		0.12	38	6	37	6	10	1695	1695	1695	0.03	<5	5	5	<10	<10	<0.01	2	<0.01	2	2	2	<10	<10	188	188		
33648		0.07	39	1	15	1	80	102	102	102	0.04	<5	159	159	<10	<10	<0.01	1	<0.01	1	1	1	<10	<10	70	70		
33649		1.39	246	2	78	2	200	9	9	9	0.12	<5	144	144	<10	<10	0.06	14	0.06	14	14	14	<10	<10	18	18		
33650		2.15	2720	<1	33	<1	160	9	9	9	0.05	<5	746	746	<10	<10	0.06	70	0.06	70	70	70	<10	<10	217	217		
33701		0.20	163	1	14	1	260	28	28	28	0.02	<5	60	60	<10	<10	0.06	7	0.06	7	7	7	<10	<10	11	11		
33702		0.35	212	2	13	2	190	8	8	8	0.19	<5	86	86	<10	<10	0.10	20	0.10	20	20	20	<10	<10	29	29		
33703		0.64	183	21	242	21	130	178	178	178	>10.0	9	21	21	<10	<10	0.09	19	0.09	19	19	19	<10	<10	116	116		
33704		0.69	217	6	21	6	200	100	100	100	0.17	<5	33	33	<10	<10	0.20	44	0.20	44	44	44	<10	<10	65	65		
33705		-0.09	160	4	15	4	10	25	25	25	0.36	<5	13	13	<10	<10	0.01	2	0.01	2	2	2	<10	<10	5	5		
33706		3.08	2540	<1	102	<1	3040	6	6	6	0.79	<5	289	289	<10	<10	1.61	369	1.61	369	369	369	<10	<10	241	241		
33707		2.06	7040	2	68	2	2890	8	8	8	1.79	<5	637	637	<10	<10	0.86	210	0.86	210	210	210	<10	<10	229	229		
33708		2.05	1870	1	223	1	2810	12	12	12	5.09	<5	477	477	<10	<10	2.02	187	2.02	187	187	187	<10	<10	170	170		
33709		0.05	71	6	48	6	120	24	24	24	0.06	<5	14	14	<10	<10	0.02	3	0.02	3	3	3	<10	<10	24	24		
33710		0.73	108	<1	81	<1	560	12	12	12	>10.0	<5	138	138	<10	<10	0.39	36	0.39	36	36	36	<10	<10	19	19		
33711		0.05	28	1	9	1	10	<2	<2	<2	0.13	<5	1	1	<10	<10	0.01	4	0.01	4	4	4	<10	<10	<2	<2		
33712		0.75	876	1	26	1	690	27	27	27	0.04	<5	465	465	<10	<10	0.36	45	0.36	45	45	45	<10	<10	84	84		
33713		1.31	281	13	29	13	140	74	74	74	0.97	<5	21	21	<10	<10	0.14	36	0.14	36	36	36	<10	<10	32	32		
33714		2.84	663	3	39	3	770	1015	1015	1015	3.22	16	151	151	<10	<10	0.73	157	0.73	157	157	157	<10	<10	1435	1435		

33628 33627 33626 33629 33630 33631 33632 33633 33634 33635 33636 33637 33638 33639 33640 33641 33642 33643 33644 33645 33646 33647 33648 33649 33650 33701 33702 33703 33704 33705 33706 33707 33708 33709 33710 33711 33712 33713 33714

← Helen →



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EXCELLENCE IN ANALYTICAL CHEMISTRY

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144-D PERREAULT AVE  
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Page: 1  
Finalized Date: 4-OCT-2004  
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**CERTIFICATE VO04063522**

Project: CHRIS

P.O. No.:

This report is for 39 Soil samples submitted to our lab in Val d'Or, Quebec, Canada on 9-SEP-2004.

The following have access to data associated with this certificate:

MARK FEKETE

**SAMPLE PREPARATION**

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

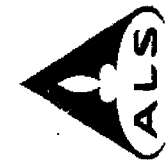
**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
AU-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	27 element four acid ICP-AES	ICP-AES

To: **BREAKAWAY EXPLORATION MANAGEMENT INC.**  
ATTN: MARK FEKETE  
144-D PERREAULT AVE  
VAL-D'OR PQ J9P 2G3

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 Canada  
 Phone: 604 984-0221 Fax: 604 984 0218

To: **BREAKWAY EXPLORATION MANAGEMENT**  
**INC.**  
**144-D PERREAU AV.**  
**VAL-D'OR PQ J9P 2G3**

Page: 2 - A  
 Total # Pages: 2 (A - B)  
 Finalized Date: 4-OCT-2004  
 Account: BREAK

Project: CHRIS

**CERTIFICATE OF ANALYSIS VO04063522**

Method Analyte Units LOR	Sample Description	WEL-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Cr %	ME-ICP61 Co ppm	ME-ICP61 Cd ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %
0.16	<0.005	6	790	1.1	<2	1.84	<0.5	8	130	22	2.20	1.75			
0.36	<0.005	35	820	1.1	<2	1.01	<0.5	37	481	21	3.13	1.10			
0.31	<0.005	166	6630	3.6	<2	0.22	<0.5	24	322	66	4.10	3.06			
0.28	<0.005	14	390	0.6	<2	1.91	<0.5	60	353	80	7.70	0.56			
0.25	<0.005	<5	590	0.7	<2	0.98	<0.5	42	838	42	4.12	0.78			
0.26	<0.005	31	520	0.8	<2	0.68	<0.5	46	1110	32	3.91	0.83			
0.65	<0.005	10	390	<0.5	<2	2.39	<0.5	91	1490	101	5.77	0.13			
0.68	<0.005	16	390	0.8	<2	2.59	<0.5	80	958	79	5.09	0.19			
0.48	NSS	37	2120	2.1	<2	0.44	0.7	14	198	62	3.01	2.47			
0.49	0.007	31	2330	2.3	<2	0.45	1.0	8	69	27	2.87	2.40			
0.47	NSS	74	1720	1.8	<2	0.31	1.3	16	144	157	3.79	2.20			
0.53	NSS	35	770	0.9	<2	1.68	<0.5	49	1175	197	5.85	0.95			
0.41	<0.005	28	1100	1.5	<2	1.37	<0.5	24	181	66	4.03	1.50			
0.51	NSS	35	1710	1.7	<2	0.97	<0.5	19	284	107	4.04	1.86			
0.60	NSS	31	310	0.5	<2	2.15	<0.5	61	1785	136	6.52	0.46			
0.36	0.012	42	1270	1.1	<2	1.10	<0.5	32	627	33	3.75	1.20			
0.46	0.009	71	2850	3.2	<2	0.37	0.6	12	69	23	3.52	3.90			
0.53	<0.005	31	6750	4.4	<2	0.15	0.9	9	83	18	2.90	3.33			
0.37	<0.005	7	1110	4.1	<2	0.14	<0.5	26	130	55	7.71	3.43			
0.36	0.005	22	3380	3.0	<2	0.80	<0.5	20	192	34	4.01	3.97			
0.39	<0.005	20	1750	2.7	<2	0.41	<0.5	18	290	17	4.32	3.80			
0.31	0.049	13	130	<0.5	<2	0.28	<0.5	83	1170	29	4.36	0.18			
0.11	<0.005	<5	780	1.1	<2	1.58	<0.5	6	55	35	1.81	1.74			
0.36	0.016	115	780	1.1	<2	1.19	<0.5	82	896	34	4.04	1.02			
0.40	0.008	28	590	0.9	<2	2.07	<0.5	49	800	47	4.04	0.85			
0.31	0.017	32	2610	3.1	<2	0.58	<0.5	7	106	29	2.78	3.99			
0.47	<0.005	8	>10000	4.7	<2	0.01	<0.5	2	5	13	4.88	4.19			
0.40	0.013	141	1720	1.5	<2	0.59	<0.5	77	1085	23	6.75	1.28			
0.32	<0.005	12	580	0.7	<2	0.98	<0.5	55	973	26	4.81	0.78			
0.34	0.041	128	280	<0.5	<2	0.28	<0.5	96	1330	20	3.93	0.35			
0.12	<0.005	35	810	1.2	<2	1.82	<0.5	8	97	43	1.84	1.90			
0.21	<0.005	159	1120	1.4	<2	1.46	<0.5	19	368	37	5.09	1.82			
0.56	0.010	57	1420	2.0	2	0.96	<0.5	13	125	39	3.30	2.25			
0.17	<0.005	66	1760	1.8	<2	0.69	<0.5	7	103	21	3.17	2.50			
0.08	<0.005	<5	820	1.2	<2	1.62	<0.5	18	248	38	3.04	1.32			
0.08	<0.005	10	560	0.7	<2	2.02	<0.5	9	988	60	1.38	0.79			
0.34	<0.005	34	390	<0.5	<2	0.61	<0.5	80	1275	38	4.01	0.55			
0.25	<0.005	<5	770	1.1	<2	1.12	<0.5	23	518	21	2.89	1.21			
0.34	0.008	47	630	0.9	<2	1.19	<0.5	38	700	39	3.82	0.81			





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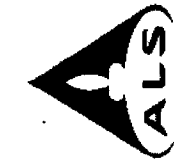
To: BREAKAWAY EXPLORATION MANAGEMENT  
 INC.  
 144-D PERREAULT AVE  
 VAL-D'OR PQ J9P 2G3

Page: 2 - B  
 Total # Pages: 2 (A - B)  
 Finalized Date: 4-OCT-2004  
 Account: BREAK

Project: CHRIS

## CERTIFICATE OF ANALYSIS VO04063522

Method Analyte Units LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sr ppm 1	ME-ICP61 Ti % 0.01	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
33801	1.68	429	2	2.25	120	720	14	0.03	<5	470	0.24	63	<10	49
33802	4.12	970	2	1.16	645	660	12	0.05	11	179	0.32	92	<10	57
33803	1.20	1270	5	0.14	224	980	31	0.01	<5	171	0.41	165	<10	141
33804	5.57	1390	2	0.87	258	380	3	0.02	<5	65	0.32	234	<10	43
33805	8.08	581	2	0.72	1010	700	10	0.06	<5	108	0.23	91	10	66
33806	10.70	637	1	0.52	1355	670	8	0.10	13	85	0.16	69	10	67
33851	15.45	1040	1	0.19	1730	380	3	0.08	5	96	0.37	103	<10	67
33852	12.55	979	1	0.61	1150	410	7	0.02	<5	55	0.37	106	10	68
33853	1.53	503	2	0.62	141	860	107	0.04	<5	70	0.29	52	<10	131
33854	0.64	483	4	0.69	47	1060	39	0.07	<5	83	0.37	53	<10	168
33855	1.20	685	3	0.77	107	820	28	0.01	5	48	0.25	92	<10	647
33856	5.66	1020	2	0.99	599	650	35	0.01	5	93	0.40	133	<10	257
33857	1.34	1185	1	1.17	108	880	18	0.01	<5	186	0.42	115	<10	104
33858	1.75	880	1	0.88	171	1020	20	0.03	<5	147	0.38	87	10	196
33859	8.94	1085	1	0.82	873	340	9	0.01	<5	73	0.26	144	<10	254
33860	5.60	500	2	0.94	621	780	12	0.04	<5	162	0.29	94	10	69
33901	0.93	1165	4	0.43	59	780	41	0.03	<5	54	0.31	72	<10	153
33902	0.93	283	5	1.15	67	880	49	0.01	<5	89	0.25	83	10	180
33903	1.50	1220	3	0.80	75	880	30	0.02	<5	206	0.39	134	<10	164
33904	2.82	815	4	0.13	228	780	21	0.01	5	78	0.30	105	10	112
33905	2.04	870	2	0.37	285	1050	30	0.02	<5	81	0.35	68	<10	78
33906	18.20	809	1	0.16	1830	200	6	0.02	24	30	0.07	44	<10	41
33907	0.75	328	2	2.12	36	750	12	0.06	<5	461	0.20	44	<10	57
33908	7.47	1115	2	1.02	773	580	12	<0.01	6	157	0.25	87	10	56
33909	8.41	771	1	0.71	751	430	10	0.01	<5	133	0.23	97	<10	55
33910	1.12	337	2	0.71	73	770	38	0.03	<5	104	0.30	68	10	80
33911	1.08	45	2	0.51	4	640	39	0.14	<5	66	0.15	18	<10	100
33912	7.05	484	2	0.59	1160	400	16	0.01	11	83	0.24	79	<10	76
33913	11.75	619	1	0.74	1270	540	9	0.03	<5	146	0.24	60	<10	62
33914	13.85	491	1	0.33	2180	210	<2	0.02	35	57	0.08	50	10	46
33915	1.12	419	1	2.28	119	1160	<2	0.08	<5	475	0.20	46	10	53
33916	1.76	374	1	1.08	220	1100	16	0.11	6	215	0.29	85	<10	123
33917	1.08	444	<1	1.08	63	770	7	0.08	<5	175	0.39	103	<10	85
33918	0.96	347	<1	0.82	39	980	7	0.03	5	138	0.32	80	<10	65
33919	2.72	510	<1	1.48	286	740	4	0.04	<5	192	0.38	104	<10	68
33920	1.84	280	<1	0.81	543	1290	4	0.32	<5	178	0.14	49	<10	39
33921	12.85	1200	<1	0.46	1560	870	<2	0.04	<5	98	0.12	55	10	62
33922	5.12	418	1	1.26	504	680	5	0.08	<5	202	0.27	88	<10	64
33923	7.00	684	1	1.32	751	570	<2	0.03	11	199	0.28	93	10	51



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ALS Canada Ltd.  
212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218

To: **BREAKAWAY EXPLORATION MANAGEMENT INC.**  
144-D PERREAUULT AVE  
VAL-D'OR PQ J9P 2G3

Page: 1  
Finalized Date: 1-AUG-2004  
Account: BREAK

**CERTIFICATE VA04044673**

Project:  
P.O. No.:  
This report is for 11 Rock samples submitted to our lab in Vancouver, BC, Canada on 15-JUL-2004.

The following have access to data associated with this certificate:  
MARK FEKETE

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

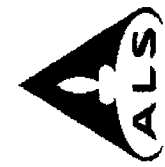
  

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
AU-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	27 element four acid ICP-AES	ICP-AES

To: **BREAKAWAY EXPLORATION MANAGEMENT INC.**  
ATTN: MARK FEKETE  
144-D PERREAUULT AVE  
VAL-D'OR PQ J9P 2G3

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**  
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 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: BREAKAWAY EXPLORATION MANAGEMENT  
 INC.  
 144-D PERREAULT AVE  
 VAL-D'OR PQ J9P 2G3

Page: 2 - A  
 Total # Pages: 2 (A - B)  
 Finalized Date: 1-AUG-2004  
 Account: BREAK

**CERTIFICATE OF ANALYSIS VA04044673**

Sample Description	Method Analyte Unit LOR	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 Al %	ME-ICP61 As ppm	ME-ICP61 Ba ppm	ME-ICP61 Be ppm	ME-ICP61 Bi ppm	ME-ICP61 Ca %	ME-ICP61 Cd ppm	ME-ICP61 Co ppm	ME-ICP61 Cr ppm	ME-ICP61 Cu ppm	ME-ICP61 Fe %	ME-ICP61 K %	ME-ICP61 Mg %
33601		1.16	<0.5	0.37	<5	100	<0.5	<2	0.12	<0.5	50	1370	4	2.79	0.01	0.01
33602		1.92	<0.5	0.69	89	20	<0.5	<2	10.60	<0.5	28	893	5	1.80	0.04	0.04
33603		1.38	<0.5	0.10	64	30	<0.5	<2	0.11	<0.5	81	862	5	3.52	0.05	0.05
33604		0.86	<0.5	0.20	374	70	<0.5	<2	0.11	<0.5	58	1225	3	2.88	0.08	0.08
33605		2.44	<0.5	0.23	122	20	<0.5	<2	0.07	<0.5	64	1365	1	3.83	<0.01	<0.01
33606		1.64	<0.5	0.56	92	140	<0.5	<2	3.48	<0.5	54	891	<1	3.13	0.07	0.07
33607		2.06	<0.5	0.72	<5	20	<0.5	<2	2.10	<0.5	51	1420	11	4.00	0.01	0.01
33608		1.24	<0.5	0.37	7	10	<0.5	<2	1.92	<0.5	78	1285	13	4.67	<0.01	<0.01
33609		1.16	<0.5	3.23	<5	40	<0.5	<2	8.43	<0.5	15	71	<1	2.89	0.04	0.04
33610		1.92	<0.5	0.68	<5	10	<0.5	<2	8.23	<0.5	6	80	1	1.52	<0.01	<0.01
33611		1.14	<0.5	0.82	558	130	<0.5	<2	7.17	<0.5	55	1370	8	3.90	0.04	0.04



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ALS Canada Ltd.  
 212 Brooksbank Avenue  
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To: BREAKAWAY EXPLORATION MANAGEMENT  
 INC.  
 144-D PERREAULT AVE  
 VAL-D'OR PQ J9P 2G3

Page: 2 - B  
 Total # Pages: 2 (A - B)  
 Finalized Date: 1-AUG-2004  
 Account: BREAK

**CERTIFICATE OF ANALYSIS VA04044673**

Method Analyte Units LOR	ME-ICP61 Min ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sr ppm 1	ME-ICP61 Ti % 0.01	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	ME-ICP61 Au ppm 0.005
33801	284	<1	0.01	777	<10	2	0.01	23	9	<0.01	25	<10	26	0.005
33802	483	<1	<0.01	540	<10	<2	<0.01	<5	128	0.01	17	<10	15	<0.005
33803	843	1	<0.01	1220	10	<2	<0.01	23	9	<0.01	15	<10	38	0.011
33804	423	<1	<0.01	1365	10	<2	<0.01	27	8	<0.01	19	<10	89	<0.005
33805	570	<1	0.01	1915	10	5	<0.01	10	4	<0.01	24	<10	52	0.005
33806	484	<1	0.01	1105	10	2	<0.01	40	433	0.01	30	<10	25	0.009
33807	350	<1	0.02	946	10	3	0.80	<5	5	0.01	36	<10	42	<0.005
33808	296	<1	0.02	1775	10	<2	1.27	<5	1	<0.01	25	<10	32	<0.005
33809	651	<1	0.01	41	100	3	0.01	<5	186	0.20	137	10	20	<0.005
33810	486	<1	0.02	21	30	<2	<0.01	<5	180	0.02	30	<10	17	<0.005
33811	1550	<1	0.01	873	10	5	0.01	7	1220	0.01	42	<10	58	<0.005

**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218



To: HINTERLAND METALS INC.  
 144-D PERREAULT AVE  
 VAL D'OR PQ J9P 2G3

Page: 1  
 Date: 28-JUN-2004  
 Account: HINMET

**CERTIFICATE VA04037517**

Project: Helen

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Vancouver, BC, Canada on 16-JUN-2004.

The following have access to data associated with this certificate:

MARK FEKETE

CARL SCHULZE

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Air-AA24	Au 50g FA AA finish	AAS

To: HINTERLAND METALS INC.  
 ATTN: MARK FEKETE  
 144-D PERREAULT AVE  
 VAL D'OR PQ J9P 2G3

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Signature:



**ALS Chemex**  
**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 604 984 0221 Fax: 604 984 0218

To: HINTERLAND METALS INC.  
 144-D PERREAU AVENUE  
 VAL D'OR PQ J9P 2G3

Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Date: 28-JUN-2004  
 Account: HINMET

Project: Helen

**CERTIFICATE OF ANALYSIS VA04037517**

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au ppm	Ag ppm	Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
RM288511	0.56	0.082	<0.2	0.18	132	10	<0.5	<2	4.48	<0.5	57	563	5	3.36
RM269512	1.14	0.011	<0.2	0.08	112	20	<0.5	<2	1.79	<0.5	43	455	9	2.80
RM269513	1.52	1.545	28.8	0.09	>10000	<10	<0.5	489	2.85	9.5	3	108	5190	8.70
RM269514	1.30	1.515	9.4	0.18	>10000	<10	<0.5	898	0.63	2.1	8	166	481	2.33
RM269515	1.96	7.48	57.6	0.01	>10000	<10	<0.5	2440	0.71	1.5	98	47	277	24.3
RM269516	1.40	0.061	15.6	0.10	1020	<10	<0.5	1845	0.03	2.8	2	198	140	0.97

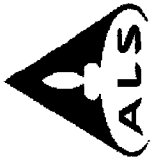
Chris  
 Helen  
 June 10/04

To: HINTERLAND METALS INC.  
144-D PERREAU AV  
VAL D'OR PQ J9P 2G3

Page: 2 - B  
Total # Pages: 2 (A - C)  
Date: 28-JUN-2004  
Account: HINMET

**ALS Chemex**  
EXCELLENCE IN ANALYTICAL CHEMISTRY

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212 Brooksbank Avenue  
North Vancouver BC V7J 2C1 Canada  
Phone: 604 984 0221 Fax: 604 984 0218



Project: Helen

**CERTIFICATE OF ANALYSIS VA04037517**

Sample Description	Method Analyte Units	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm
RM289511	Chris Helen June 10/04	<10	<1	0.02	<10	8.18	382	2	<0.01	1215	10	3	<0.01	83	5	349
RM289512		<10	<1	0.02	<10	10.50	451	1	<0.01	949	10	4	<0.01	56	4	118
RM289513		<10	<1	0.08	<10	0.04	10	6	0.01	8	20	159	42	4.83	1	17
RM289514		<10	<1	0.08	<10	0.07	50	6	0.01	10	30	206	6	0.54	1	18
RM289515	<10	<1	0.01	<10	<0.01	<5	<5	6	0.01	23	10	917	9.85	93	<1	1
RM289516	<10	<1	0.04	<10	0.02	55	55	9	<0.01	16	30	502	0.04	<2	<1	4

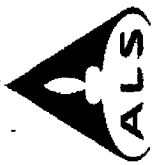
To: HINTERLAND METALS INC.  
 144-D PERREAULT AVE  
 VAL D'OR PQ J9P 2G3

Project: Helen

**CERTIFICATE OF ANALYSIS VA04037517**

**ALS Chemex**  
 EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.  
 212 Brooksbank Avenue  
 North Vancouver BC V7J 2C1 Canada  
 Phone: 804 984 0221 Fax: 604 984 0218



Sample Description	Method Analyte Units LOR	ME-ICP41													
		TI %	TI ppm	U ppm	V ppm	W ppm	Zn ppm	1	2	3	4				
RM269511		<0.01	<10	<10	13	<10	<10	16							
RM269512		<0.01	<10	<10	13	<10	<10	25							
RM269513	Chris	<0.01	<10	<10	3	<10	<10	284							
RM269514	Helen	<0.01	<10	<10	5	<10	<10	45							
RM269515	June 10/04	<0.01	<10	<10	1	<10	<10	20							
RM269516		<0.01	<10	<10	2	<10	<10	287							





**APPENDIX C**  
**STATEMENT OF COSTS**

## 2004 Breakdown Chris

	Outside Yukon (non- eligible)	Inside Yukon (eligible)	Mgmt. Fees
A.Fekete		1,100.00	
G.Fekete		300.00	
M.Fekete	1,320.00	4,400.00	
D.Ferderber	1,050.00	7,500.00	
R.Grenier	1,050.00	7,500.00	
C.Schultze		195.75	
J.Small		612.50	
M.Fekete Expenses - F&L	389.73	46.76	
M.Fekete Expenses - F&L F&L	443.63	1,209.68	
R.Grenier Expenses - F&L	544.87		
J.Small Expenses - F&L		137.22	
Camp Rental		1,000.00	
Camp Rental		1,200.00	
M.Fekete Expenses - Supplies	3.52		
M.Fekete Expenses - Supplies		956.70	
J.Small Expenses - Supplies		190.18	
R.Grenier Expenses - Supplies	812.43		
Supply		267.73	
Assays - analysis		4,480.00	
Assays - analysis		67.28	
Assays - analysis		365.09	
Assays - shipping		9.62	
Assays - shipping		72.75	
M.Fekete Expenses - Transport	680.56	295.54	
M.Fekete Expenses - Transport	385.12	602.62	
R.Grenier Expenses - Transport	270.30		
Trans		664.98	
Truck		225.00	
Truck Rental	250.00		
Truck Rental		150.00	
Truck Rental		300.00	
Truck Rental		300.00	
Hdynamics Fuel		148.20	
Hdynamics Helicopter		1,267.50	
Hdynamics Fuel		440.00	
Hdynamics Helicopter		2,925.00	
Kluane Airways fuel		558.00	
Kluane Airways helicopter		990.00	
Kluane Airways helicopter		693.00	
Kluane Airways helicopter		5,580.00	
Hand-held radios		50.00	
Rentals		75.00	
Sat phone rental		100.00	
Sat phone usage		82.25	
M.Fekete Expenses - Maps		89.83	
Breakaway			928.71
Breakaway			2,392.56
Breakaway			1,121.05
Breakaway			1,235.52
Total	7,200.16	47,270.47	5,677.84 <u>60,148.47</u>