

HINTERLAND METALS INC.

A REPORT ON PROSPECTING AND GEOCHEMICAL SURVEYS

DAZZLE PROPERTY: 61° 20' N Latitude, 130° 56' W Longitude

GLEAM PROPERTY: 61° 24' N Latitude, 130° 53' W Longitude

HELEN PROPERTY: 61° 23.5' N Latitude, 130° 58' W Longitude

DAZZLE 1-85 CLAIMS: YB93982 – YB94066

GLEAM 1 – 42 CLAIMS: YB94107 – YB94148

GLEAM 43 – 47 CLAIMS: YC24194 – YC24198

HELEN 1-4 CLAIMS: YC24190 – YC24193

HELEN 5 – 18 CLAIMS: YC24360 – YC24373

NTS SHEET: 105G/07

094502

**REGISTERED OWNER: GLACIER GEMS INC.
UNDER OPTION TO HINTERLAND METALS INC.**

WATSON LAKE MINING DISTRICT OF YUKON

**AUGUST 6 TO 29, 2003 (ALL PROPERTIES)
AND JUNE 10/ 2004 (HELEN PROPERTY)**

YMIP # 03-048

**MARK FEKETE, P.GEO.
(HINTERLAND METALS INC.)**

**MODIFIED BY CARL SCHULZE
DECEMBER 8, 2004**

BREAKAWAY

Costs associated with this report have been approved in the amount of \$ 2,500.⁰⁰ # 17,200.⁰⁰ \$ 25,100.⁰⁰ for assessment credit under Certificate of Work No. QL25692, QL25693 & QL25694

.....
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 \$ 44,800.

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



SUMMARY

The 85-claim (4390-acre) Dazzle, 50-claim (2582-acre) Gleam and 18-claim (930-acre) Helen properties are 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 exploration program completed in 2003 and a review of relevant reports and maps obtained from various sources, an evaluation of the exploration potential of the properties is presented and an exploration program is proposed.

Hinterland Metals Inc. may earn 100% of the property mineral rights from True North Gems Inc. subject to agreements signed by the parties on December 9, 2002 with respect to the Gleam property and on January 16, 2003 with respect to the Dazzle Property. Both properties are subject to an underlying 3% royalty on all gemstone and metal production in favour of Glacier Gems Inc. The Helen claims were staked in September 2003 within an area of influence and are subject to the terms and conditions of the Gleam agreement.

Access to the Dazzle, Gleam and Helen properties is limited by the lack of roads into the area. The closest road ends at Teck-Cominco's Kudz Ze Kayah camp some 15 km to the northeast. At present, the most practical access is provided by floatplane to one of several lakes suitable for the establishment of a base camp and then by helicopter from the base camp to the properties on a daily or fly-camp basis. All four properties are in steep, rugged terrain where snow conditions and short daylight hours in winter limit exploration; 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 properties lie in the southwestern part of the region, along the footwall of 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 Dazzle, Gleam and Helen properties cover the eastern margin of one such pluton, in contact with sub-horizontal layers of the lowermost section of the Grass Lake succession, variably displaced by normal and thrust faults. The dominant lithology is tan-coloured quartz-mica schist with thin layers of micaceous marble and calcareous schist. This unit is underlain by feldspar-muscovite-quartz schist derived from a felsic volcanic protolith and overlain by Fyre Lake metavolcanic schists.

The Finlayson Lake Area is best known for the Fyre Lake, Wolverine, Kudz Ze Kayah, Ice and GP4F volcanic massive sulphide-type deposits, and more recently for the emerald mineralization found on the Regal Ridge Property. Recent regional-scale geological mapping surveys and several technical studies on a property scale have contributed greatly to the overall understanding of the mineral potential of the area. Similar to Regal Ridge, the Dazzle, Gleam and Helen properties lie adjacent to a mid-Cretaceous granitic intrusion that may have generated quartz veins or pegmatite dykes crosscutting neighbouring schistose meta-sediments and meta-



volcanics. This juxtaposition of beryllium (Be)-rich rocks against chrome (Cr)-rich rocks may, under certain conditions, produce emeralds.

The 2003 Exploration program, conducted from August 6 to 29, 2003, consisted of prospecting, outcrop examination and rock sampling and geochemical surveys. Part of the program consisted of regional reconnaissance work not done directly on the properties. A total of 10 rocks were collected from the Gleam property, 28 from the Dazzle, and 10 from the Helen, including 4 taken in 2004.

The discovery of the Helen Gold Zone represents a significant breakthrough for Hinterland in the Finlayson Lake area. It moves the Company's efforts in the area from the grassroots to the target evaluation stage. The zone is a vertical hydrothermal arsenopyrite-quartz vein. A series of six chip samples across the showing returned a weighted average of 3.86 g/t Au and 48.1 g/t Ag over a width of 5.0 m. A gold-equivalent value of 4.54 g/t Au has been calculated for the interval based on metal prices as of September 15, 2003.

Although Hinterland found no emeralds and in fact no beryl mineralization in 2003, a specific emerald target has been generated in the northern part of the Dazzle Property. The "Two Creeks Be Anomaly" lies directly adjacent to a mid-Cretaceous contact, is noticeably anomalous with respect to beryllium, chrome and arsenic and contains pegmatite dykes, zones of yellow sulphate alteration and tourmaline mineralization.

The positive results of the 2003 Exploration Program clearly warrant continued exploration on the Dazzle, Gleam and Helen properties. It is recommended that the exploration be divided into two parts consisting of separate programs at the Helen Gold Zone, and the Two Creeks Be Anomaly using a central base camp. The Helen Zone Gold Zone must be brought to the diamond drilling stage as soon as possible by the completion of grid-controlled prospecting, geochemical and geophysical surveys. If drilling in the first phase intersects significant gold-silver mineralization, a second phase of drilling is recommended. The Two Creeks Be Anomaly must be prospected in detail with additional geochemical sampling. This report does not contemplate second phases for the Two Creek program.

Recommended budgets consist of Phase 1 surface exploration of the Two Creeks Be Anomaly, and Phase 1 and 2 diamond drilling programs on the Helen property. The combined cost of both Phase 1 programs is estimated at \$367,023; the cost of the second phase is estimated at \$229,045 for a two-phase total of approximately \$596,448.



CERTIFICATE OF QUALIFICATIONS, MARK FEKETE

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 Dazzle, Gleam and Helen properties (the "Properties") most recently in August 2003;
3. I am the primary author and am solely responsible for the contents of this technical report entitled "A Report of Prospecting and Geochemical Surveys, Dazzle, Gleam and Helen Properties (DAZZLE: 61°20' N. Lat. 130°56' W. Long., GLEAM: 61°24' N Lat. 130° 53' W Long; HELEN: 61°23.5' N Lat, 130°58' W Long, N.T.S. 105 G/07), Watson Lake Mining District of Yukon, August to September 2003 YMIP # 03-048" based on my professional experience, a review of relevant reports and maps and my own work on the Properties;
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 either of the Properties as a result of any prior involvement in the Properties;
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 Properties (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 8 day of Dec, 2004,

"Mark Fekete"

Mark Fekete, P.Geo.

BREAKAWAY



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 of Prospecting and Geochemical Surveys, Dazzle, Gleam and Helen Properties (DAZZLE: 61°20' N. Lat. 130°56' W. Long., GLEAM: 61°24' N Lat. 130° 53' W Long; HELEN: 61°23.5' N Lat, 130°58' W Long, N.T.S. 105 G/07), Watson Lake Mining District of Yukon, August to September 2003 YMIP # 03-048" on the Helen property area, and for modifications on the original report authored by Mr. Fekete. I was active on-site at the Helen 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 8th Day of December, 2004.

1. "Carl Schulze"

Carl Schulze, BSc, PGeo
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Whitehorse, Yukon Y1A 5T6
Telephone: 867-633-4807
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1. Introduction and Terms of Reference

Breakaway Exploration Management Inc. ("Breakaway") was retained by Hinterland Metals Inc. ("Hinterland") to complete a program of prospecting and geochemical surveying on the Gleam and Dazzle properties located in the Finlayson Lake Area of southeastern Yukon. No work had been completed on the properties by Hinterland at the date when Breakaway was engaged. The program also included some regional exploration and subsequently led to the staking of the Helen property. Limited prospecting and rock sampling was done on the Helen property in June 2004 by All-Terrane Mineral Exploration Services; results are included in this report. The purpose of this report is to satisfy assessment filing requirements of the Yukon Quartz Mining Act for the Gleam, Dazzle and Helen properties, to describe the details of the work program, to provide an opinion of the exploration potential of the properties and to provide recommendations for further exploration of the properties.

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 \$11,500 of funds under YMIP # 03-048. The report is based on the results of the year-2003 exploration program and the limited June 2004 program on the Helen block, 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 somewhat by Carl Schulze of All-Terrane. 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 authors have relied on the technical data and interpretation found in various sources cited throughout the report. The authors have not verified this information and takes no responsibility for its accuracy or completeness. The authors do 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 Dazzle, Gleam and Helen properties are located in the Finlayson Lake Area of southeastern Yukon approximately 225 kilometres east-northeast of the capital city of Whitehorse (Figure 1). All properties are situated within the Watson Lake Mining Division. The Dazzle, Gleam and Helen properties lie on N.T.S. map sheet 105 G/07 at an approximate geographic centre of 61°22' North Latitude and 130°56' West Longitude. Specifically, the Dazzle property is centered at 61° 20' N Latitude, 130° 56' W Longitude; the Gleam property is centered at 61°24' N Latitude, 130° 53' W Longitude; and the Helen property is centered at 61° 23.5' N Latitude, 130° 58' W Longitude. The most notable topographic feature nearby is West Grass Lake, located 2 kilometres west of the Gleam and Helen properties and 3 kilometres north of the Dazzle Property.

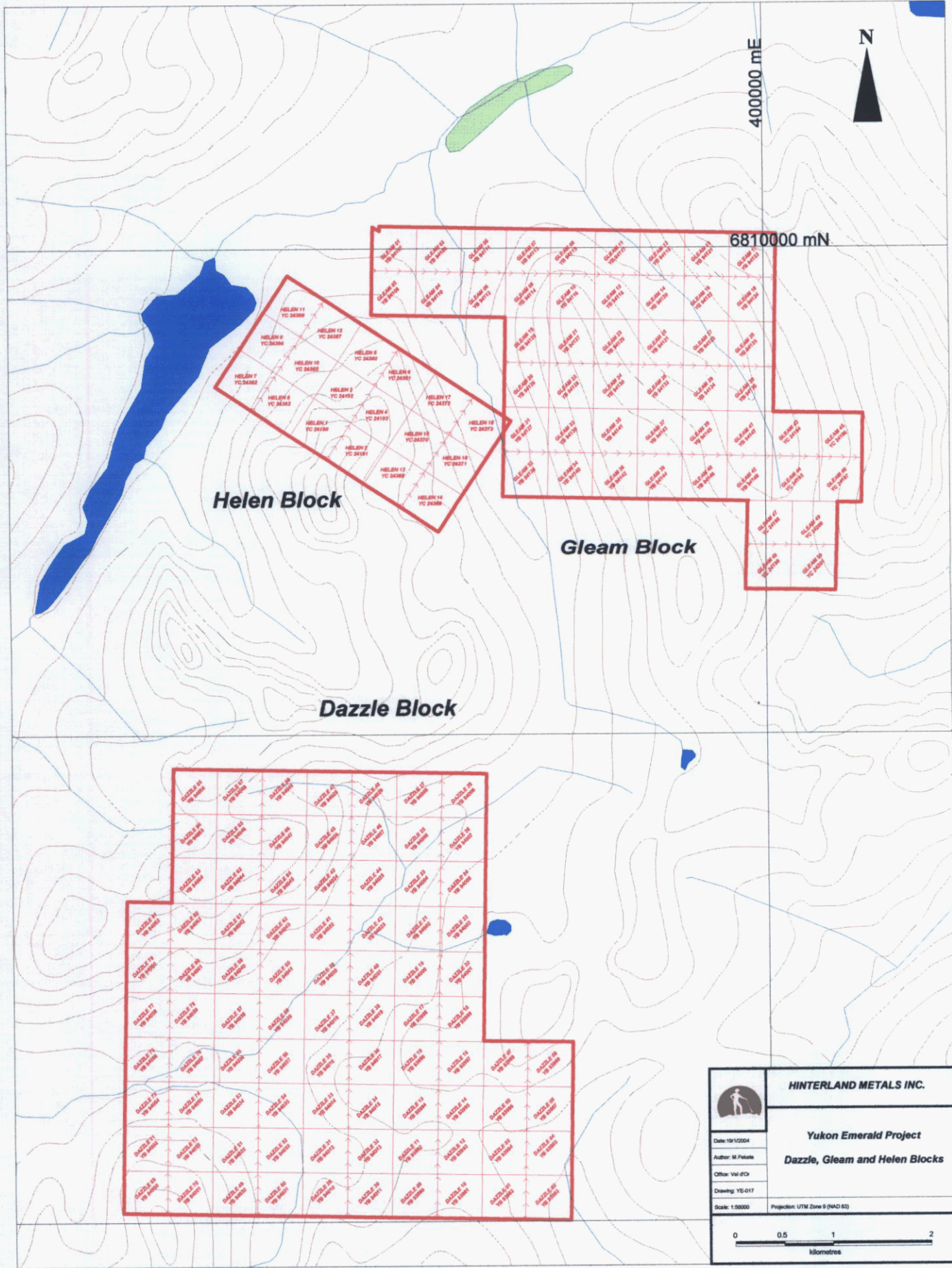
List of Mineral Titles

Claim Name	Grant No.	Expiry Date
GLEAM 1-9	YB94107 - YB94115	7/26/2007
GLEAM 10	YB94116	7/26/2008
GLEAM 11	YB94117	7/26/2007
GLEAM 12 - 14	YB94118 - YB94120	7/26/2008
GLEAM 15	YB94121	7/26/2007
GLEAM 16	YB94122	7/26/2008
GLEAM 17 - 20	YB94123 - YB94126	7/26/2007
GLEAM 21	YB94127	7/26/2008
GLEAM 22	YB94128	7/26/2007
GLEAM 23	YB94129	7/26/2008
GLEAM 24	YB94130	7/26/2007
GLEAM 25	YB94131	7/26/2008
GLEAM 26	YB94132	7/26/2007
GLEAM 27 - 31	YB94133 - YB94137	7/26/2008
GLEAM 32	YB94138	7/26/2007
GLEAM 33	YB94139	7/26/2008
GLEAM 34	YB94140	7/26/2007
GLEAM 35	YB94141	7/26/2008
GLEAM 36	YB94142	7/26/2007
GLEAM 37	YB94143	7/26/2008
GLEAM 38	YB94144	7/26/2007
GLEAM 39	YB94145	7/26/2008
GLEAM 40	YB94146	7/26/2007
GLEAM 41 - 42	YB94147 - YB94148	7/26/2008
GLEAM 43 - 44	YC24194 - YC24195	8/25/2008
GLEAM 45 - 46	YC24196 - YC24197	8/25/2007
GLEAM 47	YC24198	8/25/2008

Claim Name	Grant No.	Expiry Date
DAZZLE 1 - 2	YB93982 - YB93983	7/26/2005
DAZZLE 3	YB93984	7/26/2007
DAZZLE 4	YB93985	7/26/2005
DAZZLE 5	YB93986	7/26/2007
DAZZLE 6	YB93987	7/26/2006
DAZZLE 7	YB93988	7/26/2007
DAZZLE 8 - 9	YB93989 - YB93990	7/26/2006
DAZZLE 10	YB93991	7/26/2005
DAZZLE 11 - 20	YB93992 - YB94001	7/26/2007
DAZZLE 21 - 24	YB94002 - YB94005	7/26/2008
DAZZLE 25 - 46	YB94006 - YB94027	7/26/2007
DAZZLE 47 - 48	YB94028 - YB94029	7/26/2008
DAZZLE 49 - 64	YB94030 - YB94045	7/26/2007
DAZZLE 65	YB94046	7/26/2008
DAZZLE 66	YB94047	7/26/2007
DAZZLE 67 - 68	YB94048 - YB94049	7/26/2008
DAZZLE 69 - 72	YB94050 - YB94053	7/26/2007
DAZZLE 73	YB94054	7/26/2006
DAZZLE 74	YB94055	7/26/2007
DAZZLE 75	YB94056	7/26/2006
DAZZLE 76	YB94057	7/26/2007
DAZZLE 77	YB94058	7/26/2006
DAZZLE 78 - 83	YB94059 - YB94064	7/26/2007
DAZZLE 84	YB94065	7/26/2008
DAZZLE 85	YB94066	7/26/2007
HELEN 1 - 3	YC24190 - YB24192	8/25/2009
HELEN 4	YC24193	8/25/2010
HELEN 5 - 18	YC24360 - YC24373	9/19/2009

All claims are 100% owned by Glacier Gems Inc, under option to Hinterland Metals Inc.

All work was done by or under supervision of Hinterland Metals Inc.



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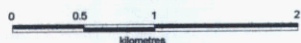


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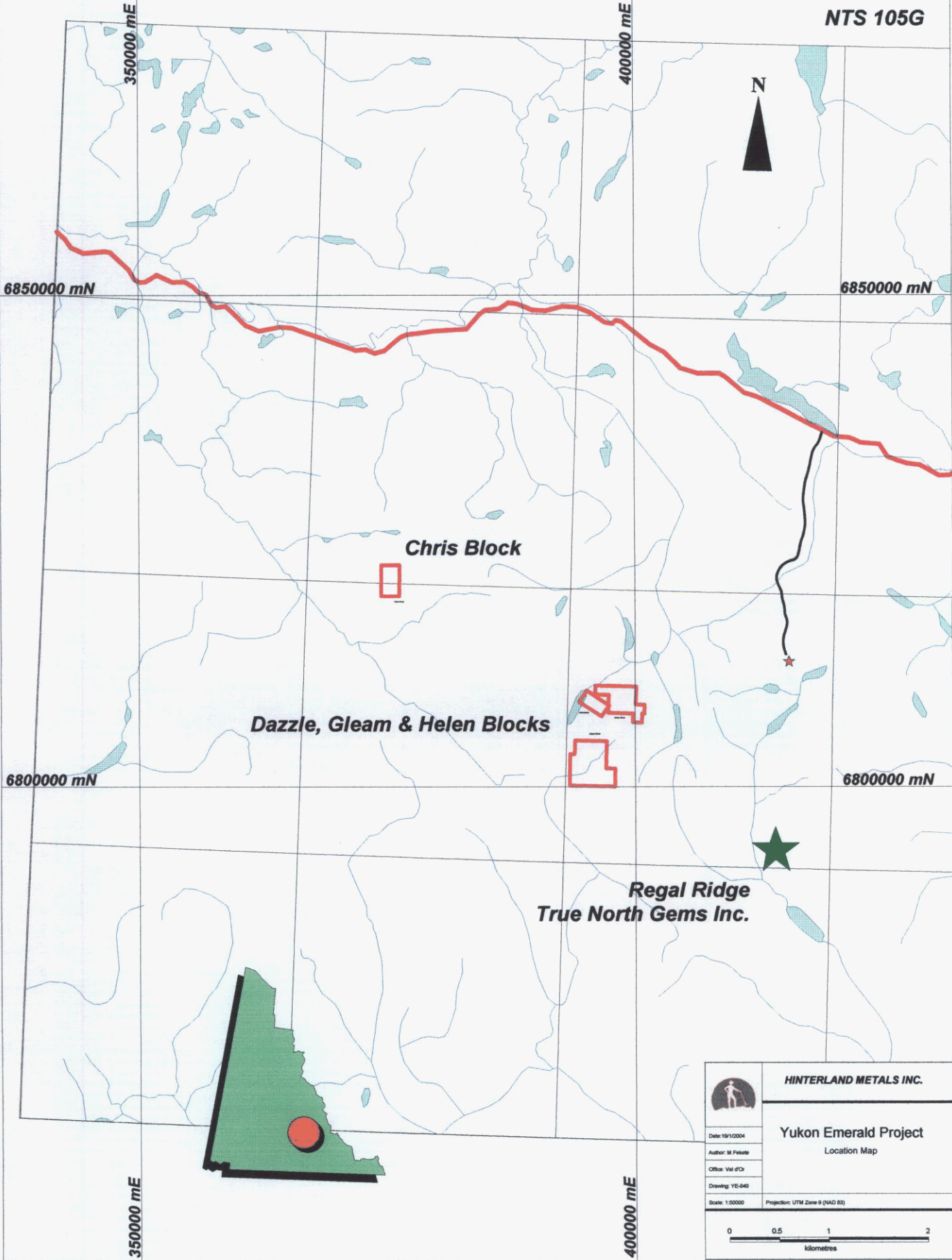
Helen Block

Gleam Block

Dazzle Block

	HINTERLAND METALS INC.	
	Yukon Emerald Project Dazzle, Gleam and Helen Blocks	
Date: 19/12/2004	Author: M. Feltz	
Office: Val d'Or	Drawing: YE-017	
Scale: 1:50000	Projection: UTM Zone 9 (NAD 83)	
		

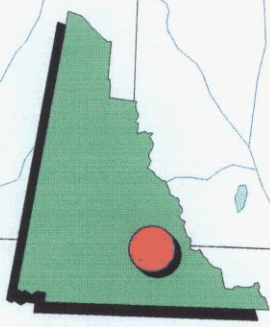
NTS 105G



Chris Block

Dazzle, Gleam & Helen Blocks

**Regal Ridge
True North Gems Inc.**



HINTERLAND METALS INC.

Date: 18/12/2004
Author: M. Pelete
Office: Val d'Or
Drawing: YE-940

Yukon Emerald Project
Location Map

Scale: 1:50000 Projection: UTM Zone 9 (NAD 83)





The surface rights for the area of all the properties are held by the Crown. The mineral rights (Figures 2 and 3) are held under the statutes of the "Yukon Quartz Mining Act" and are listed in Table 1.

Hinterland holds the option to acquire a 100% interest in the Gleam Property from True North Gems Inc. ("True North") under the terms and conditions of an option agreement executed between the two parties on December 11, 2002. Under this agreement Hinterland has paid \$11,000 cash, issued 50,000 shares and must complete \$200,000 of work expenditures by the third anniversary of the agreement. True North may earn back a 50% interest by completing an additional \$200,000 of work on the property. True North may earn an additional 10% by funding all costs through to production. The Helen Property was staked adjacent to the Gleam Property and lies within an area of influence. Consequently it is subject to the terms and conditions of the Gleam agreement and for all intents and purposes may be considered part of the Gleam Property.

Hinterland holds the option to acquire a 100% interest in the Dazzle Property from True North under the terms and conditions of an option agreement executed between the two companies on January 16, 2003. Under this agreement Hinterland paid \$21,500 cash, issued 100,000 shares and must complete \$400,000 of work expenditures by the third anniversary of the agreement. True North may earn back a 50% interest by completing an additional \$400,000 of work on the property. True North may earn an additional 10% by funding all costs through to production.

All three properties above are subject to an underlying agreement with Glacier Gems Inc. ("Glacier") whereby Glacier is entitled to a 3% royalty on all metal and gemstone production from the properties. Glacier Gems is the current registered owner of all claims comprising the Dazzle, Gleam and Helen properties.

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

The Dazzle, Gleam and Helen properties are relatively isolated, with no roads or trails providing vehicle access. The Robert Campbell Highway, passes approximately 40 km to the north and a secondary road leads from the highway to the Kudz Ze Kayah camp located some 15 km northeast of the Gleam Property. This is a private road with restricted access operated by Teck-Cominco. However, True North has gained access on two occasions in the past in order to mobilize equipment and supplies onto its Regal Ridge Project. Therefore it may be possible to obtain permission to use the Kudz Ze Kayah road in the future to mobilize equipment and supplies onto the properties. For the time being however, access by air is the most practical method.

The most suitable place to establish a base camp is either on Grass Lake or West Grass Lake, located east and west of the properties respectively. Both lakes provide excellent access for fixed wing aircraft on floats or skis. A helicopter is necessary to move exploration crews onto the properties on a daily or fly-camp basis. All supplies and services for the base camp 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 properties lie in rugged mountainous terrain ranging from 1250 m to 2050 m above sea level. The Gleam and Helen properties are drained northward into Big Robert Campbell Creek, a tributary of the Pelly River. The Dazzle Property is drained southward into Ings River, a tributary of the Liard River in the MacKenzie 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 along creek bottoms. Rock outcrops are abundant and well exposed although talus slides cover much of the properties.

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 winter snow accumulation is generally 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

There is no documentation of emerald exploration having taken place on or immediately adjacent to the Dazzle, Gleam or Helen properties. The properties have seen limited exploration for VMS-type or replacement type gold mineralization. In the past, no mineral showings have been located in-place on the properties although there is reference to an occurrence of arsenopyrite float on the Helen Property (MINFILE # 105G 030). A review of the Yukon Geology Program MINFILE database reveals that the immediate area of the properties has undergone three periods of exploration activity.

The first period covers the early-1950s and is poorly documented. Records show that limited staking, prospecting and geophysical surveying took place during this period (Allan 1955). The second period covers the late-1960s when North Lake Mines Ltd. led a syndicate into the area with a regional airborne geophysical survey followed by prospecting, geochemical and ground geophysical surveys (MacDonald 1967, Sevensma 1966, Sevensma 1967, Sevensma and Heard 1967). The third period of exploration in the area was touched off by the discovery of Kudz Ze Kayah deposit in 1994 and continued into the late-1990s. During this period a number of companies completed work in the area of the properties. Expatriate Resources Ltd. has been the most active company in the area. It participated in a regional airborne geophysical survey followed by prospecting, geological mapping, geochemical and ground geophysical surveys followed by limited trenching and diamond drilling on a number of adjacent properties (Burgert 1997, Eaton 1997, Wenzynowski 1996, Wenzynowski 1998, Wenzynowski 1999, Woolham 1997). Arcturus Resources Ltd. also completed exploration programs on a number of adjacent



blocks. This work included participation in a regional airborne survey followed by prospecting, geological mapping, geochemical and ground geophysical surveys followed by limited diamond drilling (Davidson 1997, Davidson 1998, MacDonald 1995, Woolham 1997). Based on a regional geophysical survey flown in 1994, Cominco Ltd. staked and subsequently optioned a block of claims to Pacific Bay Minerals Ltd. Work on these claims was limited to cursory prospecting and geological mapping (MacRobbie 1996, Moyle and Wesa 1998).

6. Regional Geology

The Chris, Dazzle, Gleam and Helen properties lie within the northern Canadian Cordillera and cover 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 area, the Yukon-Tanana is faulted against sedimentary rocks of the Cassiar Platform by the right lateral Tintina Fault. Northwest of the property area, the Yukon-Tanana is thrust over 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 meta-clastic 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 emplaced 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 Dazzle, Gleam and Helen properties lie 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 units are sub-horizontal with an easterly strike. They are variably displaced by normal and thrust faults.

The Grass Lakes succession is intruded by the extensive Early Mississippian Grass Lake Plutonic Suite. 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 serpentized 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 Dazzle, Gleam and Helen properties cover the eastern margin of a mid-Cretaceous granitic pluton measuring 10 km from east to west and 6 km from north to south (Figure 5). A cursory inspection of the intrusion shows it to be medium- to coarse-grained, generally equigranular and zoned; the author observed muscovite granite in places and reddish-weathering biotite-muscovite granite elsewhere. The pluton has been intruded into layered meta-sediments and meta-volcanics of the Grass Lakes succession and meta-plutonic rocks of the Grass Lakes Plutonic Suite. Lithological abbreviations used by Murphy et al (2001) are used in the following discussion for the sake of clarity.

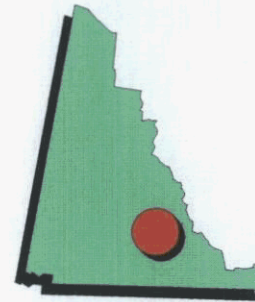
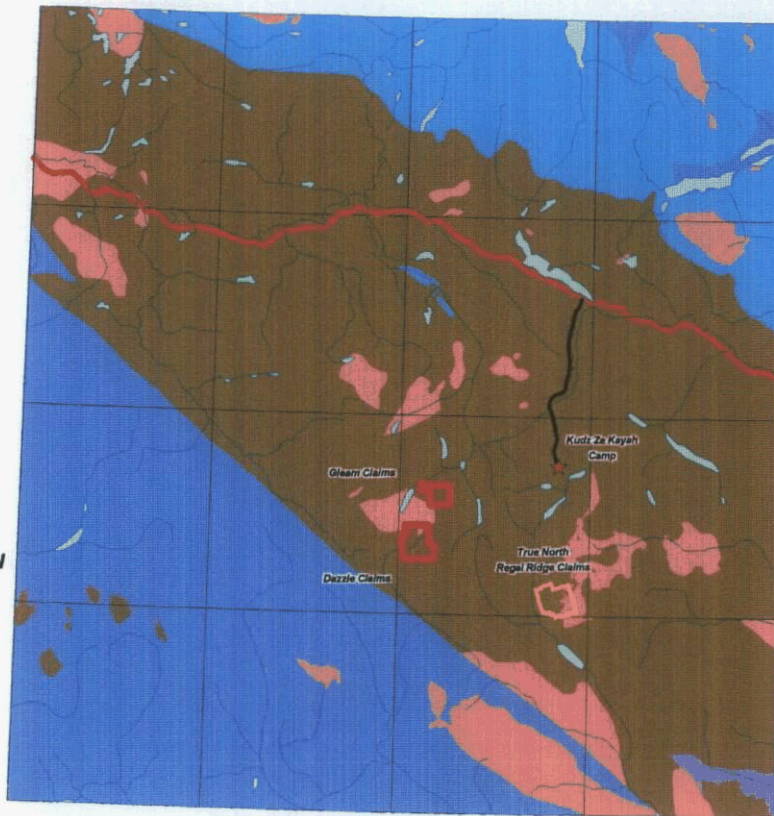
The Gleam Property covers a north trending ridge and is drained by two creeks flowing northwards. Roughly 50% of the property is above treeline with good outcrop exposure. The ridge consists mainly of foliated, lineated and equigranular granitic rocks belonging to the Grass Lakes Plutonic Suite (MGg). The ridge is capped by flat-lying tan-coloured quartz-mica schists (Dq) overlain by Fyre Lake metavolcanic schists (Df). The Helen Property straddles a contact between the mid-Cretaceous granitic pluton (Kg) to the south and MGg granitic rocks to the north. Moving west, Dq schists lie on the north side of the contact. The elevation of the Helen Property is relatively high and shows abundant outcrop.

6900000 mN

6900000 mN

400000 mE

500000 mE



LEGEND

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

6800000 mN

6800000 mN

400000 mE



HINTERLAND METALS INC.

YUKON EMERALD PROJECT

Gleam and Dazzle Claims

Regional Terrane Map

Date: 24/1/2003

Author: MF

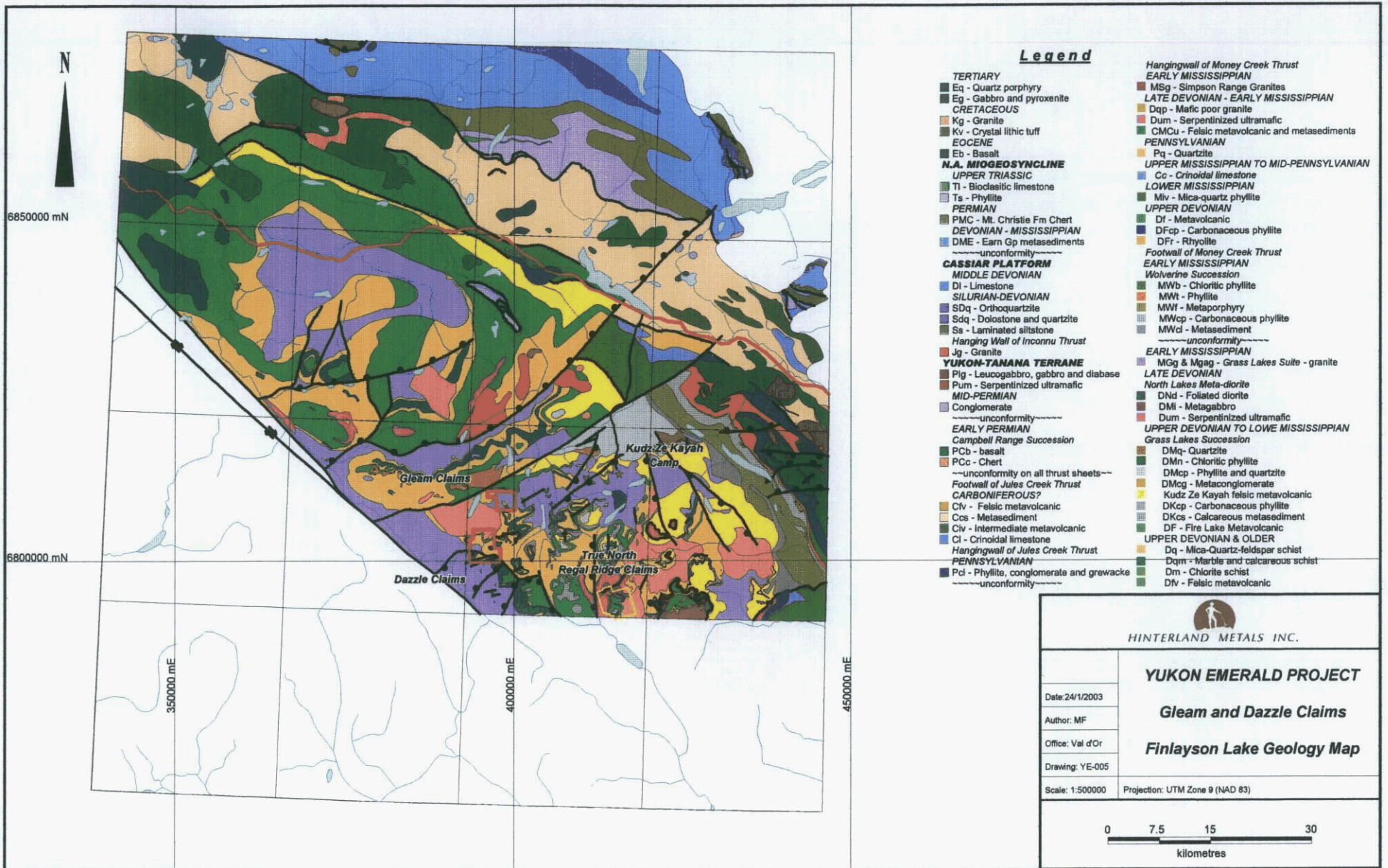
Office: Val d'Or

Drawing: YE-004

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
- Hangin Wall of Inconnu Thrust**
- Jg - Granite
- YUKON-TANANA TERRANE**
- Pig - 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
- Hangin wall of Jules Creek Thrust**
- PENNSYLVANIAN**
- Pcl - Phyllite, conglomerate and grawacke
- unconformity-----
- Hangin wall 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**
- Dl - Metavolcanic
- DFcp - Carbonaceous phyllite
- DFr - Rhyolite
- Footwall of Money Creek Thrust**
- EARLY MISSISSIPPIAN**
- Wolverine Succession**
- MWb - Chloritic phyllite
- MWt - Phyllite
- MWf - Metaporphry
- MWcp - Carbonaceous phyllite
- MWcl - Metasediment
- unconformity-----
- EARLY MISSISSIPPIAN**
- Mcg & Mgs - 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
- DMcq - 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



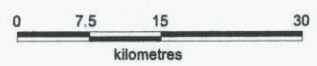
YUKON EMERALD PROJECT

Gleam and Dazzle Claims

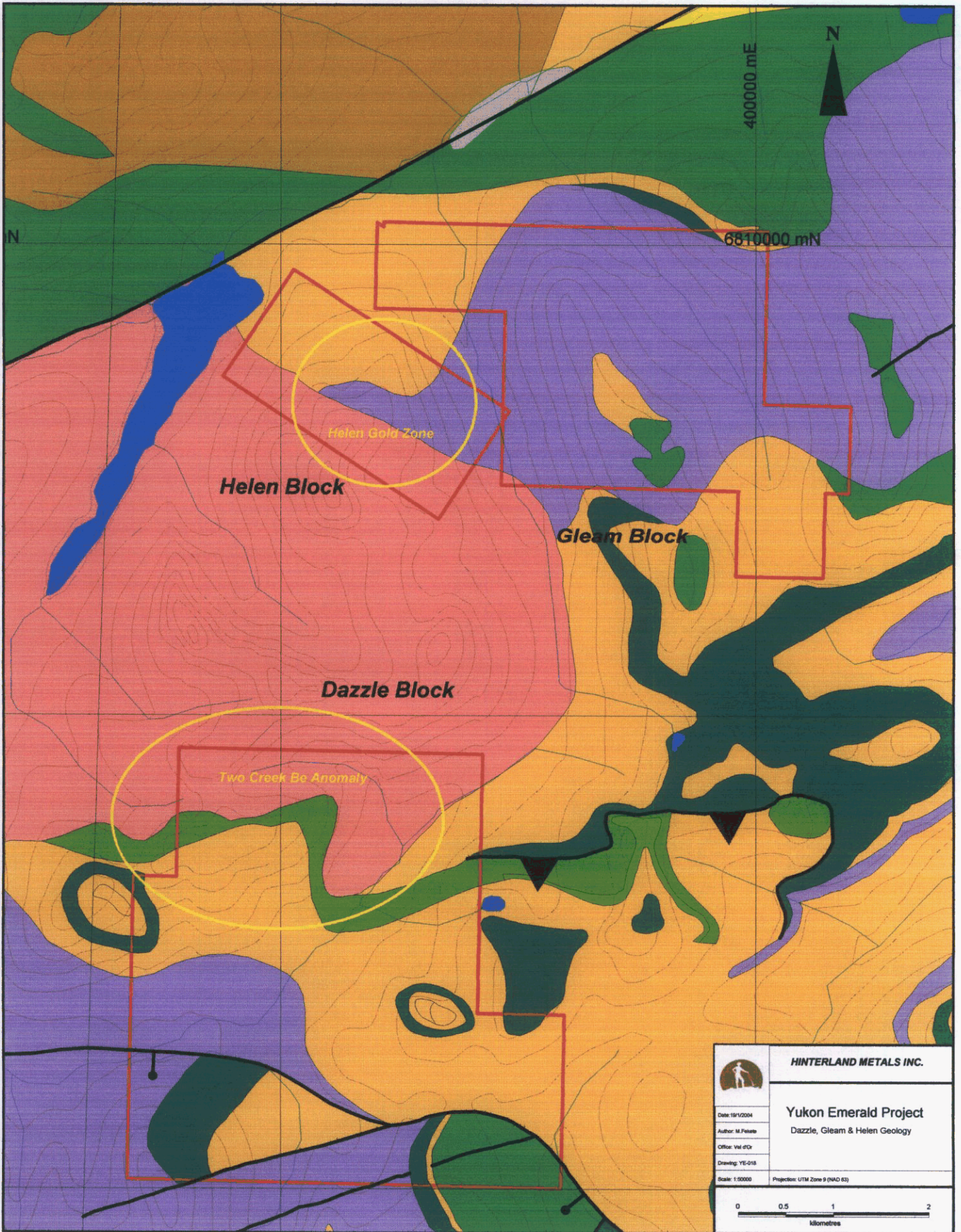
Finlayson Lake Geology Map



Date: 24/1/2003
 Author: MF
 Office: Val d'Or
 Drawing: YE-005

Scale: 1:500000 Projection: UTM Zone 9 (NAD 83)



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



 HINTERLAND METALS INC.	
Yukon Emerald Project Dazzle, Gleam & Helen Geology	
Date: 19/12/2004	
Author: M. Felske	
Office: Vail d'Or	
Drawing: YE-018	
Scale: 1:50000	Projection: UTM Zone 9 (NAD 83)
	



The Dazzle Property covers the headwaters of the Ings River, with a much smaller proportion above treeline than the Gleam property. It is underlain almost entirely by the lowermost section of the Grass Lake succession. The dominant lithology is tan-coloured quartz-mica (Dq) schist which underlies the central third of the property. Thin layers of micaceous marble and calcareous schist (Dqm) are found within and overlying the Dq schist. In the northern part of the property, a relatively thick band of feldspar-muscovite-quartz schist (Dqv) underlies the Dq schist and is in contact for much of its length with the south margin of the Kg Pluton. Murphy et al (2001) interpret Dqv schists to be derived from a felsic volcanic protolith. The position of the Dqv schists against the Kg pluton provides a viable target for immediate exploration. The southern third of the property lies on the downthrown side of an east-trending normal fault. The Fyre Lake meta-volcanic unit, which lies higher in the Grass Lakes succession, is well exposed in this area. Grass Lake Plutonic Suite rocks are found in the southwestern part of the property, especially footwall to the Dq schists. They tend to be augen textured in this area (Mgag).

9. Deposit Model

Exploration of the Dazzle, Gleam and Helen properties initially targeted two deposit models. The first is of emerald mineralization similar to that found on True North Gem's Regal Ridge Project (Groat et al. 2002). Historically the Finlayson Lake Area is best known for the Fyre Lake, Wolverine, Kudz Ze Kayah, Ice and GP4F volcanic massive sulphide-type ("VMS" or "VMS-type") deposits (Murphy et al. 2002).

Emeralds at the Crown Showing (MINFILE: 105G 147) were first found on the Regal Ridge Property in 1998 during the course of geochemical and follow-up prospecting surveys directed at finding VMS-type mineralization. Groat et al. (2002) describe emeralds as located where quartz veins cut mica-rich layers in shallow dipping mica-chlorite schists of the Fyre Lake mafic meta-volcanic unit. The quartz veins are generally subparallel to the foliation of the schist but are also known to be vertically cross-cutting. The emeralds do not occur within the quartz but rather in selvage zones of yellow sulphate mineralization and extensive fine-grained tourmaline mineralization adjacent to the veins. The host rock geochemistry appears to determine the presence or absence of emeralds. The quartz veins seem to be genetically related to discordant mid-Cretaceous granitic rocks exposed 700 m east of the emerald showings. The granite is zoned with a marginal muscovite-rich phase grading rapidly into a biotite-muscovite granite .

Walton (1996) divides emerald deposits into two types:

1. Emerald associated with bituminous black shales and sedimentary rocks; and
2. Emeralds associated with pegmatitic/granitic rocks interacting with ultramafic rocks in either:
 - a) recent suture zones; or
 - b) ancient suture zones.

The emeralds at Regal Ridge do not fit easily into this classification system. Although they are associated with a recent suture zone (i.e. Type 2a) they are somewhat similar to the Kafubu



emerald deposit in the Ndola district of Zambia described by Kazmi and Snee (1989) in that gemstones are found within micaceous schist horizons peripheral to concordant tourmaline veins. However, it differs from Kafubu in that the mica species at Regal Ridge is muscovite rather than biotite or phlogopite; also the Kafubu deposit lies on an ancient suture zone. The author (Fekete) prefers to place the Crown showing under the metamorphic-hydrothermal type classification proposed by Sinkankas (1981) where emeralds occur primarily as disseminated replacements in schistose wall rock adjacent to granitic pegmatites and quartz veins.

An empirical model for the formation of emeralds at Regal Ridge involves the alteration of Cr-rich mafic to ultramafic rocks by hot, volatile-rich fluids transported by quartz veins or pegmatite dykes from a relatively evolved, Be-rich granite.

VMS-type deposits are an important source for base and precious metals in Canada (Franklin 1996). The Finlayson Lake Area has a number of VMS-type deposits that are well described in the Yukon Geology Program MINFILE database and summarized as follows:

Table 1 - 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.”

Although the VMS-type deposit model is currently of secondary importance to the emerald model, the potential for VMS-type mineralization on the Dazzle, Gleam and Helen properties must not be understated. The properties are known to be partially underlain by the Fyre Lake meta-volcanic unit which hosts the Fyre Lake VMS deposit. In the northern part of the Dazzle Property there is a relatively thick band of feldspar-muscovite-quartz schist interpreted to be derived from a felsic volcanic protolith. This unit must also be examined for VMS-type mineralization.

The discovery of the Helen Gold Zone on the Helen Property adds a third deposit model. The zone is a weakly deformed hydrothermal vein composed of semi-massive arsenopyrite and quartz. The vein carries significant gold and silver values. Lode gold-silver deposit models are numerous and diverse (Poulsen 1996). At this early stage it is difficult to identify the Helen gold discovery as a specific model. It does not host very high copper or zinc values and therefore does not appear to be related to VMS-type mineralization. Its setting within quartz-mica schists adjacent to a granitic pluton implies that it may be a mesothermal vein replacement associated with a dyke related to the pluton. Its high arsenopyrite content and texture suggests this is a credible model although no dykes were observed during sampling.



10. Mineralization

Previous work does not document any metal or gemstone occurrences on the Dazzle, Gleam or Helen properties. The Yukon Geology MINFILE data base contains eight files describing mineral occurrences in close proximity to these properties, summarized as follows:

Table 2 - Adjacent Mineral Occurrences

MINFILE # Name	NTS Sheet	Deposit Type/Status	Location Description Best Assay Values
105G 016 El	105G/16	VMS/Drilled	5 km SW of Chris SE Corner. Disseminated lenses in metasediment 0.6% Pb, 0.6% Zn & 6.87 g/t Ag across 11.3 m
105G 029 Gee	105G/07	Vein/Showing	3 km west of Gleam NW Corner. Galena in small quartz stringers NA
105G 030 Pit	105 G/07	Unknown/Showing	1.5 km west of Gleam SW corner. Arsenopyrite float 68.6 g/t Ag
105G 031 Rob	105G/07	VMS/Showing	0.3 km south of Gleam S boundary on ridge. Massive arsenopyrite in schist NA
105G 067 Lawn	105G/07	Unknown/Anomaly	1.5 km north of Gleam NW corner. EM anomaly NA
105G 119 Shot	105G/07	VMS/Drilled	0.3 km north of Gleam N boundary on ridge. Malachite, chalcopyrite, sphalerite and pyrite in feldspar-micas-quartz schist 0.24% Cu, 2.34% Pb, 4.24% Zn and 41.5 g/t Ag
105G 120 Blue Line	105G/07	VMS/Showing	1.9 km southeast of Dazzle NE corner. Limonitic semi-massive pyrite and galena bearing marble float 8.2 g/t Ag, 835 ppm Cu, 6350 ppm Pb and 6140 ppm Zn
105G 142 Blake	105G/07	VMS/Drilled	3.7 km east of Dazzle NW corner. Cu-Zn-Pb anomaly coincident with two EM conductors over mafic schists with bands of marble and quartzite NA
105G 145 Winger	105G/07	Unknown/Anomaly	1.0 km southwest of Dazzle NW corner. Float of finely banded sulphides in skarn 2700 ppm Pb, 212 ppm Zn and 1.6 ppm Ag.



The Helen Property covers MINFILE # 105G 030 known as the Pit Showing which is generally described as arsenopyrite float carrying up to 68.6 g/t Ag. There is no evidence that previous workers identified the Helen Gold Zone in place.

11. Exploration

11.1. Introduction

Field exploration work was conducted on the Dazzle and Gleam properties from August 6 to 29, 2003. The work consisted of prospecting, outcrop examination and rock sampling and geochemical surveys. Part of this consisted of regional reconnaissance work not done directly on the properties. This regional work resulted in a new gold discovery immediately west of the Gleam Property that was subsequently staked as the 18-claim Helen Property. Eight additional claims were also staked at the southeast corner of the Gleam Property. The goal of the exploration work was to complete an initial evaluation of the Dazzle and Gleam properties for both emerald and VMS-type mineralization. Regional reconnaissance was a secondary activity of the program.

The field crew consisted of Mark Fekete, P.Geo. of Val d'Or, Quebec, Fred Kiernicki of Kirkland Lake, Ontario and Tom Morgan, Andrew Robinson, Sylvain Montreuil and Lou Perunovic, all of Dawson City, Yukon. The crew was based at Inconnu Lodge, located on McEvoy Lake some 50 km north of the project area. Daily access from the lodge to the project area was provided by a Bell 206 helicopter piloted by Karl Ziehe of Heli-Dynamics based in Whitehorse, Yukon. All sample sites were recorded with either Garmin 12XL or Garmin E-Trex GPS receivers in the NAD 83, Zone 9 map projection and plotted on appropriate maps included in this report.

The Helen property was visited on June 10, 2004 by Carl Schulze of All-Terrane Mineral Exploration Services, based at Whitehorse, with helicopter access provided by Heli-Dynamics. Exploration consisted of limited prospecting, using the same parameters as the 2003 program.

Petrography, ore microscopy and S.E.M. studies were completed by Al Miller, P.Geo of Ottawa, Ontario in September and October 2003. Two X-Ray Diffraction scans were completed at the University of British Columbia under the courteous supervision of Dr. Lee Groat in September 2003. Data compilation, drafting and report preparation was completed by Mark Fekete in January 2004, with amendments necessary for assessment filing by Carl Schulze, BSc, PGeo in December 2004. All aspects of the exploration program were co-ordinated and supervised by Mark Fekete, a Professional Geologist registered in Quebec, the author of this report and a "qualified person" as defined in Section 1.2 in and for the purposes of National Instrument 43-101.



11.2. Prospecting, Outcrop Examination and Rock Sampling

The emeralds at Regal Ridge occur in selvage zones of yellow sulphate mineralization and extensive fine-grained tourmaline mineralization adjacent to quartz veins cutting shallow-dipping mica-chlorite schists of probable volcanic origin. The quartz veins appear to be genetically related to discordant mid-Cretaceous granitic rocks; however the host rock geochemistry appears to determine the presence or absence of emeralds. Similar to the Regal Ridge property, the Dazzle and Gleam properties lie adjacent to a mid-Cretaceous granitic intrusion (Be source) and are partially underlain by schistose meta-sediments and meta-volcanics (Cr source).

Based on the empirical model developed for Regal Ridge, prospecting on the Dazzle and Gleam properties focused on locating pegmatite dykes and quartz veins in the layered rocks adjacent to mid-Cretaceous granitic rocks and examining them for yellow sulphate mineralization and extensive fine-grained tourmaline mineralization. Sulphide mineralization was also sampled for base metal values indicative of VMS-type deposits.

The year-2003 prospecting traverses were quite arbitrary due to the very preliminary nature of the program and lack of previous geochemical data that would have enabled more focused work. The prospectors sometimes followed claim lines, ridge tops, creek valleys but often wandered randomly. This work was completed by Mark Fekete, Tom Morgan, Andrew Robinson and Sylvain Montreuil. A total of 10 rocks were collected from the Gleam property, 28 from the Dazzle, and 6 from the Helen. On June 10, 2004, Carl Schulze obtained four more rock samples. Sample locations and results are included in Appendix B. Assay certificates are included in Appendix C. Sample results for various elements are plotted on appropriate maps at a scale of 1:50,000.

11.3. Geochemical Surveys

The goal of the geochemical surveys was to provide targets for future emerald prospecting work by locating favourable geochemical anomalies. A total of 32 silt samples were collected from all the creeks draining the Dazzle and Gleam properties; of these, 14 were taken directly from each of the properties. This work was completed by Fred Kiernicki and Lou Perunovic. A total of 83 soil samples were collected by the prospectors listed in Section 11.2 on claim lines and at random location in conjunction with the prospecting. Of these, 43 were taken from the Dazzle, 24 from the Gleam and 2 from the Helen. Sample locations and results are included in Appendix B. Assay certificates are included in Appendix C. Sample results for various elements are plotted on appropriate maps at a scale of 1:50,000.

11.4. XRD, Petrography, Ore Microscopy and S.E.M. Studies

Two samples were sent for positive identification by X-Ray Diffraction analysis. The results of this work are detailed in a letter to Hinterland from Dr. L. Groat (Groat 2003). Two samples were sent for petrography, ore microscopy and S.E.M. studies. Full results of these studies are described in a report submitted to Hinterland by Dr. A. Miller (Miller 2003).



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 30g Fire Assay with Atomic Absorption (AA) finish and for 27 other elements (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sr, Ti, V, W, Zn) by partial acid digestion with Induced Coupled Plasma (ICP) Emission Spectroscopy finish. One sample returned a value above 100 ppm Ag and was subsequently re-analyzed by total acid digestion with Atomic Absorption (AA) finish. Twenty-one samples returned anomalous chrome and nickel values. ALS Chemex analyzed pulps of these samples for platinum, palladium and gold by 30g Fire Assay with Induced Coupled Plasma (ICP) Emission Spectroscopy finish.

Ten rock samples were thought to contain strong potential for gold, based on their high sulphide content. These samples were sent to Bourlmaque Assay Labs in Val d'Or, Quebec where they were analyzed for gold and silver by 30g Fire Assay with Atomic Absorption (AA) finish. Five of these samples returned over 1000 ppb Au and were subsequently re-analyzed for gold by a second 30g Fire Assay with gravimetric finish. The "reject" portion of these ten samples was sent to Chimitec Labs, a division of ALS Chemex in Val d'Or, where check assays were completed for gold and silver by 30g Fire Assay with gravimetric finish. These samples were also analyzed for 27 other elements by partial acid digestion with 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 27 elements by partial acid digestion with Induced Coupled Plasma (ICP) Emission Spectroscopy finish.

All rock samples taken in 2004 were placed in thick plastic industry standard sample bags, sealed with thick plastic serrated "Zap Straps" and sent in similarly sealed rice bags to ALS Chemex Labs of North Vancouver, B.C., a certified analytical laboratory. Sealed rice bags were personally handed to the courier, Greyhound Bus Lines, by the qualified person, and were delivered by the courier directly to ALS Chemex. All rock samples were crushed to ensure that a minimum of 70% of the material was less than 2.0 mm in size; this material was thoroughly mixed. From this, a 250g sample was pulverized to 75-micron size; then a 50-gram sample of this underwent fire assay analysis with atomic absorption finish. This technique provides gold analysis ranging from 0.005 to 10.0 g/t gold.



All samples were also analyzed by 34-element ICP to test for abundances of Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Ti, Tl, U, V, W and Zn.

ALS Chemex, Chimitec and Bourlamaque all have internal quality control programs in place that use a system of duplicates, blanks and standards. It is the authors 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. Sample Results

Sample results were used to generate geochemical potential plots for a number of relevant elements on a topographic base including property boundaries. Simple log scales were used to produce these plots. In the Dazzle, Gleam and Helen property area, plots were prepared for Ag, As, Au, Be, Cr, Sr, V and Zn (Figures 11 to 18).

11.7. Discussion of Results

The most significant result of the 2003 Exploration Program was the discovery of the Helen Gold Zone. This new gold showing was first spotted from the helicopter as a distinct green coloured gossan. It stands out as an outcrop within a talus slide and is hosted within flat-lying tan-coloured quartz-mica schists several hundred metres north of a contact with a mid-Cretaceous granitic pluton (Figure 5).

A series of six chip samples across the showing returned a weighted average of 3.86 g/t Au and 48.1 g/t Ag over a width of 5.0 m. A gold equivalent of 4.54 g/t Au has been calculated for this interval based on metal prices as of September 15, 2003. Check assays have verified the tenor of the initial results. The gold-bearing structure consists of a vertical zone of massive to semi-massive sulphide mineralization approximately 4 metres wide within brecciated wall rock hosting disseminated sulphide mineralization. The average grade cited above includes 0.5 metre samples from both the footwall and hanging wall of the sulphide zone. The gold and silver values are very consistent. Gold values range from a high of 5.03 g/t Au from within the zone to a low of 0.25 g/t Au from the footwall sample. The silver values range from 44.0 to 58.0 g/t Ag and interestingly, the silver grades within the wall rock samples are equivalent to the silver grades within the sulphide zone.

The Helen Gold Zone was still snow-covered during the June 2004 visit; however, abundant proximal float was exposed and three composite grab samples of various material were taken. Results were again consistent, with gold values ranging from 1.515 to 7.49 g/t (ppm) and silver values from 9.4 to 57.6 g/t. A fourth proximal talus float sample of quartz vein returned 0.061 ppm gold and 15.6 g/t silver, indicating strongly anomalous silver values occur outside of the immediate Helen Zone.



Figure 6 - Outcrop Helen Gold Zone



Figure 7 - Hand Specimen Helen Gold Zone

Petrography, ore microscopy and S.E.M. evidence conclude the sulphide zone to be a hydrothermal vein comprised of semi-massive arsenopyrite with quartz. A secondary bluish green crust has formed on the semi-massive arsenopyrite. This secondary mineral is inferred to be scorodite $[\text{FeAsO}_4 \cdot 2\text{H}_2\text{O}]$, an iron-arsenic hydroxide. This hydroxide coating begins to develop on fresh surfaces within several days. The vein is mineralogically simple and contains approximately 65% arsenopyrite and 35% quartz. The distribution of arsenopyrite and quartz is uneven resulting in domains of either fine-grained aggregates of semi-massive arsenopyrite or of arsenopyrite hosted in anhedral quartz. There is an unusual absence of typical hydrothermal minerals such as carbonate, illite, muscovite, kaolinite, and chlorite. Ultra fine-grained metallic



aggregates comprised of alloys of bismuth and silver; native bismuth and galena are present as inclusions in arsenopyrite and interstitial to arsenopyrite and quartz. The scanning electron microscope investigation did not identify any gold or gold-bearing minerals. No penetrative fabric is evident in the vein material although brittle deformation is recorded by an intense micro-fracturing.

The Helen showing obviously appears on plots of arsenic, silver and gold (Figures 11, 12 and 13). Elevated gold and silver values were found at only two other locations in the West Grass Lake area although numerous areas of anomalous arsenic were identified.

No emeralds and in fact no beryl mineralization were found as a result of the prospecting effort. However the geochemical sampling has identified an anomalous zone in the area of two creeks that drain the northern part of the Dazzle Property. These creeks are roughly parallel to the contact between a mid-Cretaceous granitic intrusion to the north and Devonian Fire Lake Metavolcanics (Figure 5). Typical background beryllium values in the survey area range from 1.5 to 2.0 ppm Be. Values above 5 ppm are considered anomalous. In the Two Creeks area, all of the stream sediments show values ranging from 8.2 to 15.3 ppm Be. Most of the rock and soil samples collected in this area are also anomalous with a maximum soil sample value at 20.5 ppm Be and a maximum rock sample value at 73.5 ppm Be. A plot of the soil, silt and rock samples clearly shows this area to be distinctively anomalous with respect to beryllium (Figure 14).



Figure 8 - Pegmatite Dyke Two Creeks Area

Arsenic and chrome also appear to be anomalous in the Two Creeks area (Figures 11 and 15). Zinc also shows a weak association with beryllium (Figure 28). Strontium and vanadium show a distinct negative correlation with beryllium (Figures 26 and 17). Copper and tungsten, elements



known to be geochemically related to the emerald mineralization at Regal Ridge, generally show very weak values in the study area overall and do not provide useful plots.



Figure 9 - Yellow Sulphate Alteration Two Creeks Area

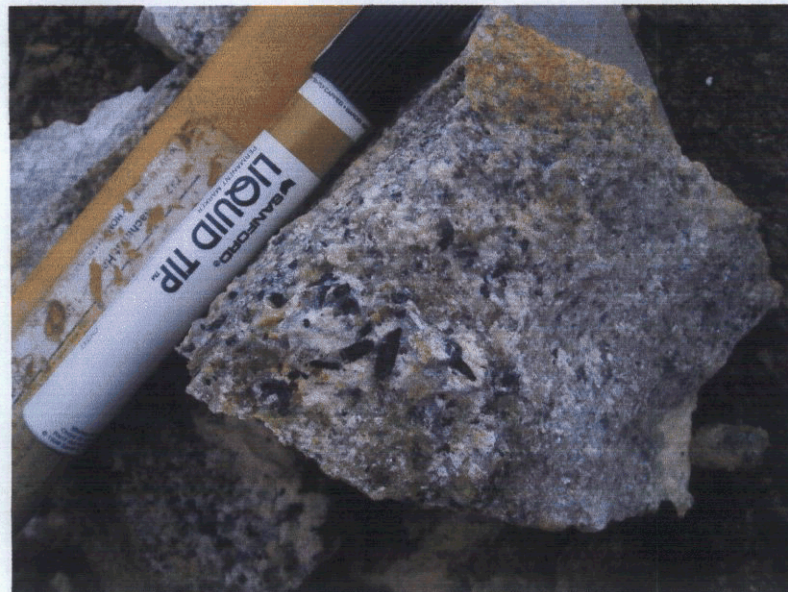


Figure 10 - Tourmaline Crystals Two Creeks Area

12. Adjacent Properties

Information concerning adjacent properties is included in Sections 9 and 10 of this report. This information was obtained from the publically 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 any of the Dazzle, Gleam or Helen 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 Dazzle, Gleam or Helen properties if and when any are provided.

13. Mineral Processing and Metallurgical Testing

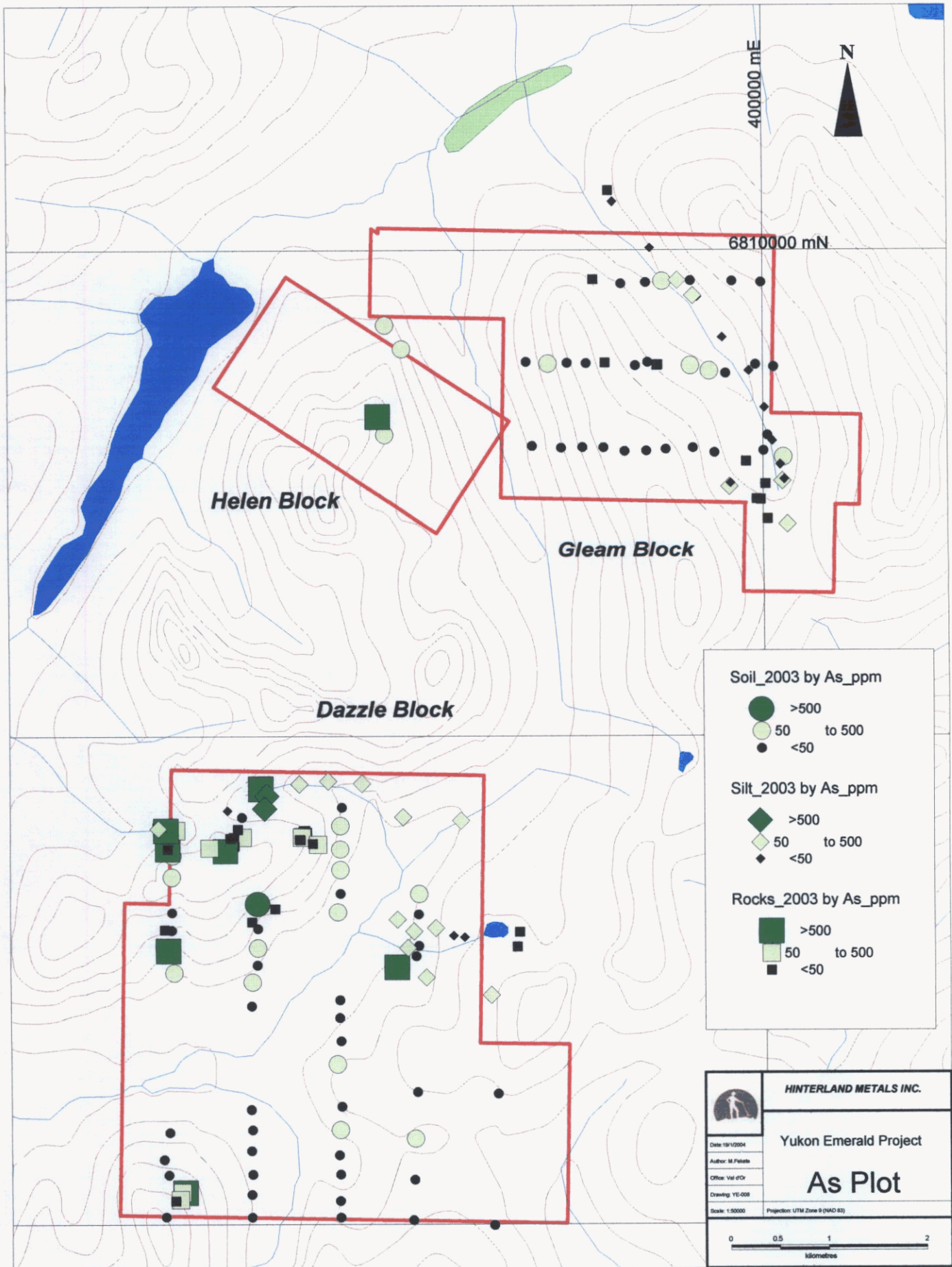
To date, Hinterland has not completed any mineral processing and/or metallurgical testing on either of the Chris, Dazzle, Gleam or Helen properties.

14. Mineral Resource and Mineral Reserve Estimates

No mineral resource or mineral reserve estimates exist for either of the Chris, Dazzle, Gleam or Helen properties.

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.



Soil_2003 by As_ppm



- >500
- 50 to 500
- <50

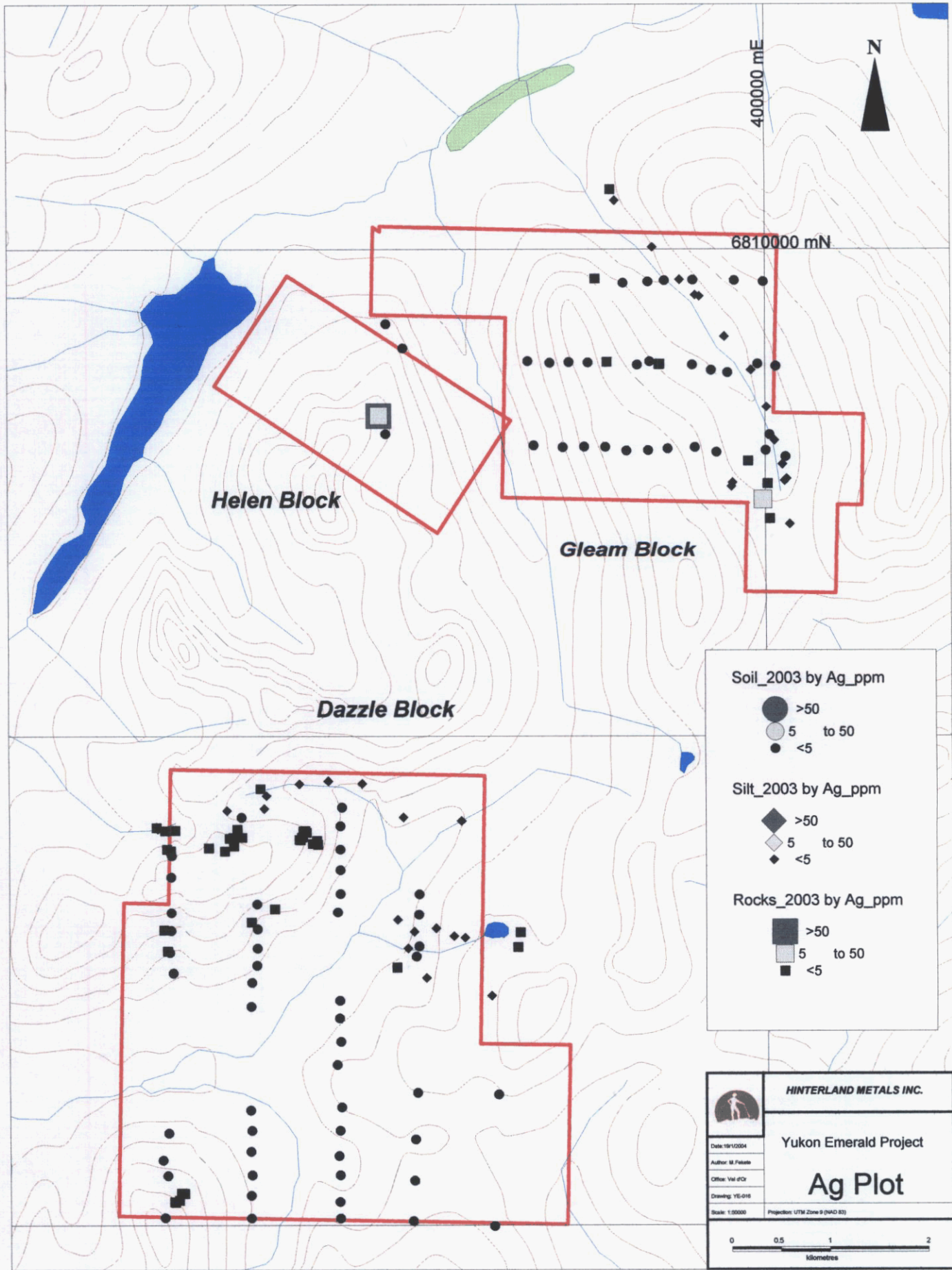
Silt_2003 by As_ppm

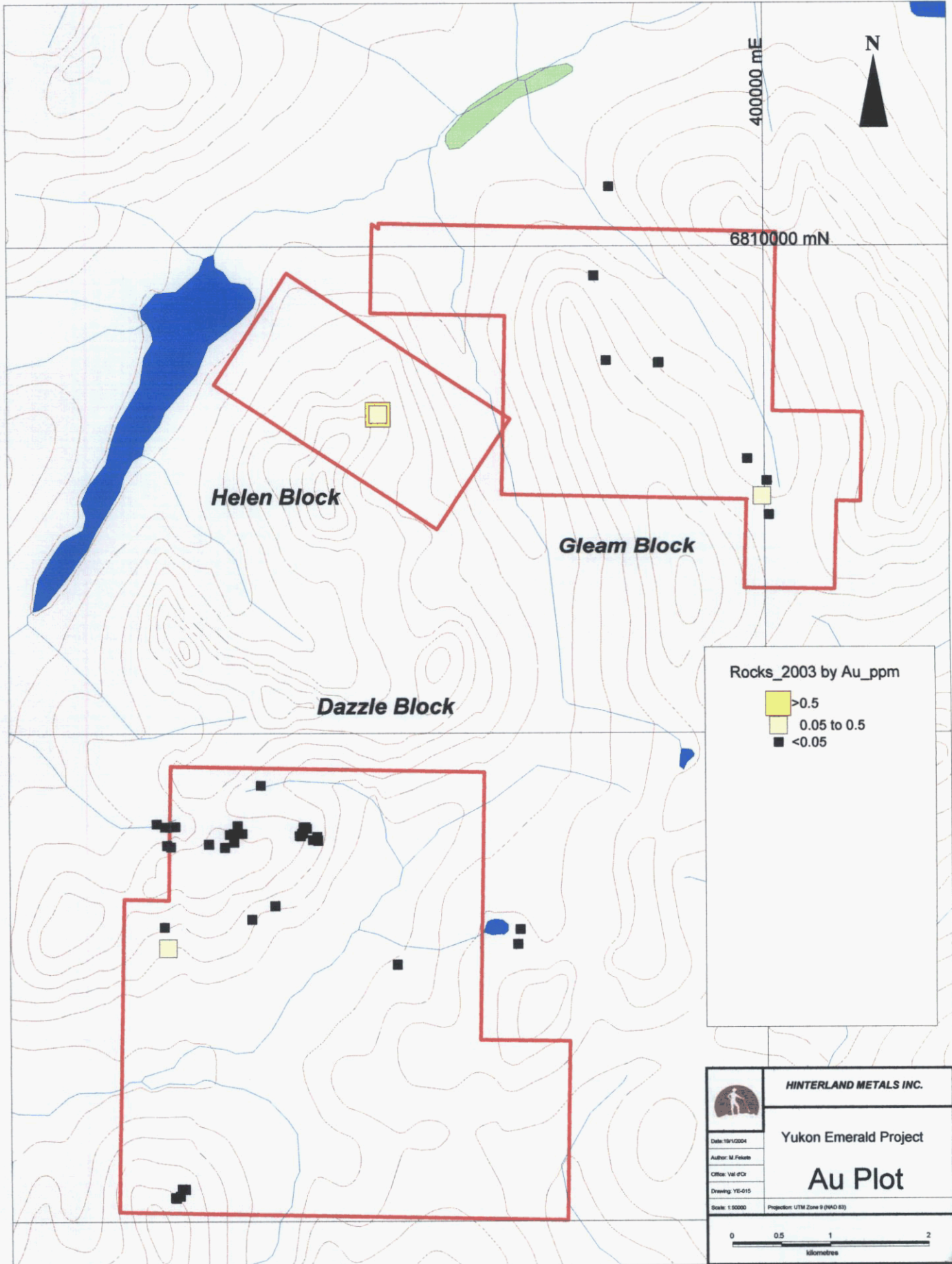
- >500
- 50 to 500
- <50

Rocks_2003 by As_ppm

- >500
- 50 to 500
- <50

	HINTERLAND METALS INC.
Yukon Emerald Project	
As Plot	
Date: 18/1/2004	
Author: M. Felzls	
Office: Val d'Or	
Drawing: YE-008	
Scale: 1:50000	Projection: UTM Zone 9 (NAD 83)
	





Helen Block

Gleam Block

Dazzle Block



400000 mE

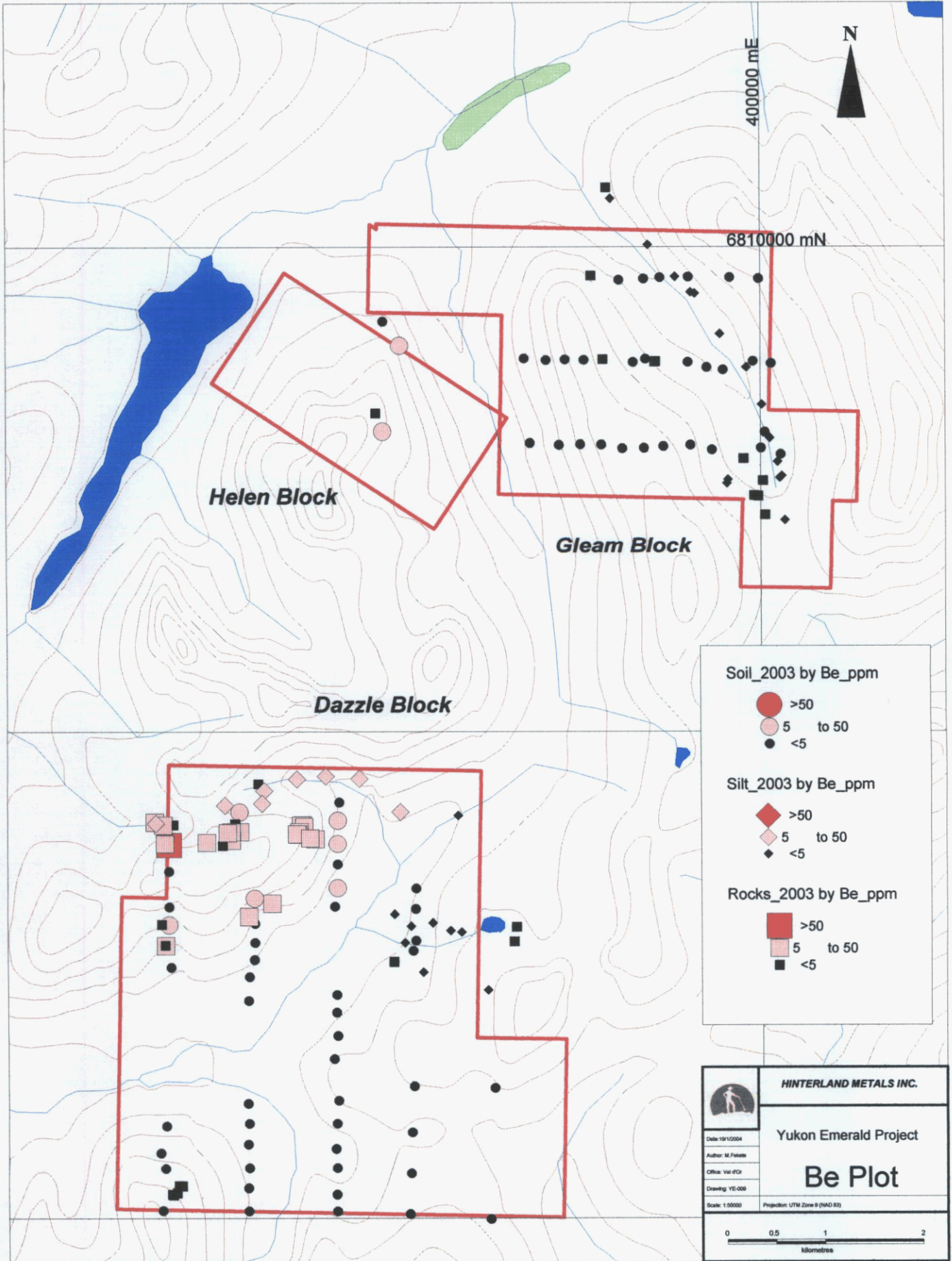
6810000 mN

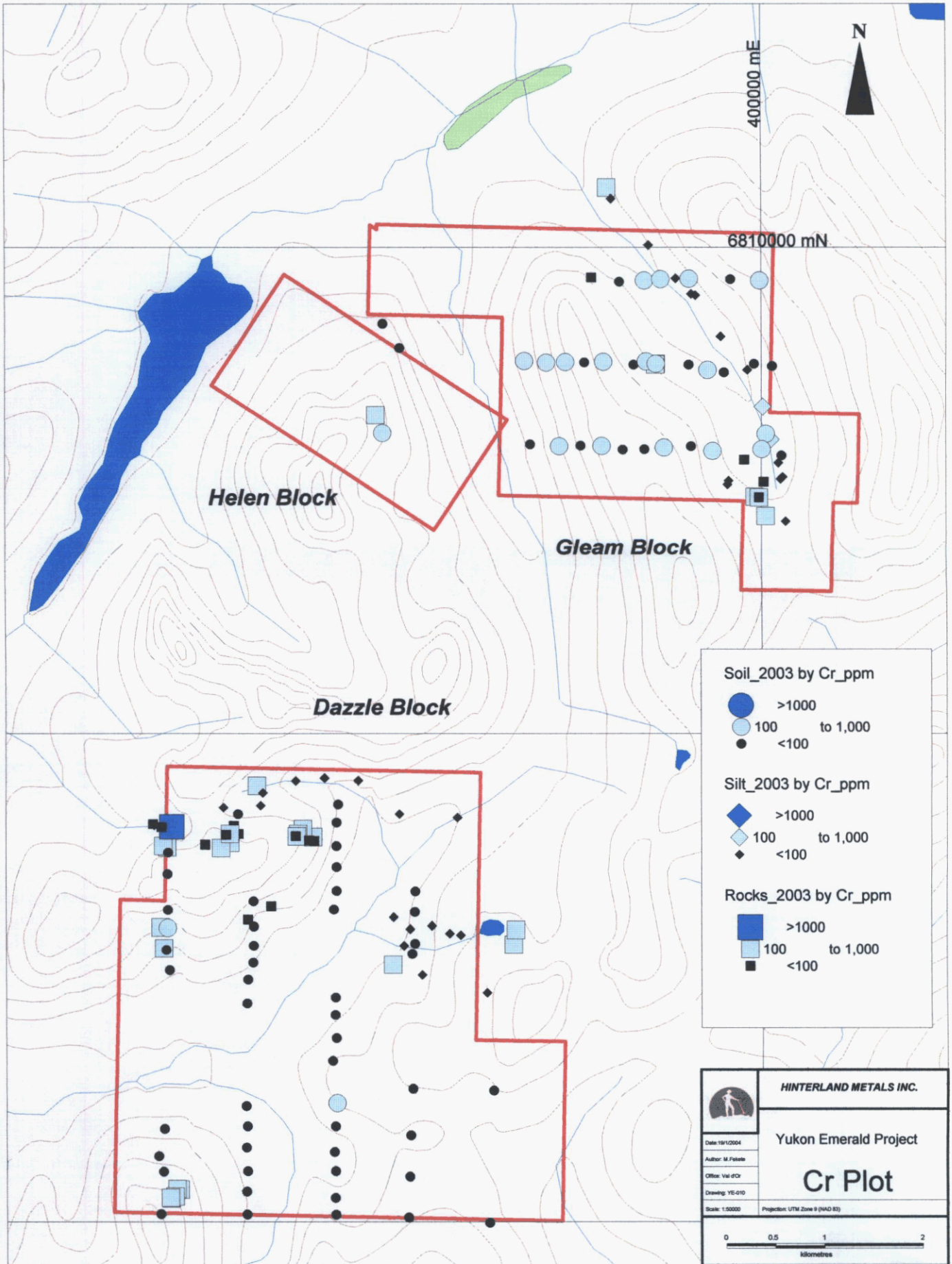


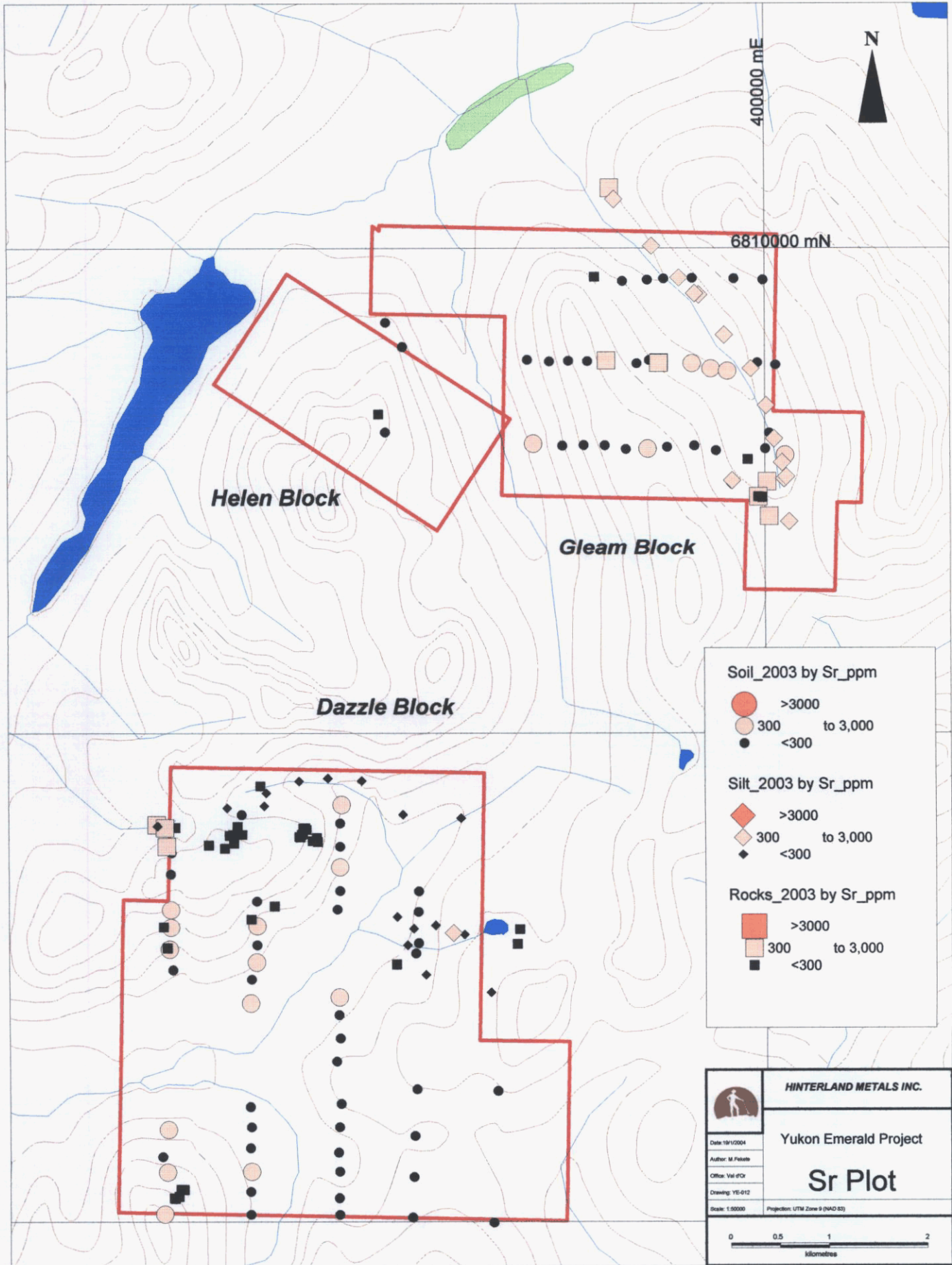
Rocks_2003 by Au_ppm

- >0.5
- 0.05 to 0.5
- <0.05

	HINTERLAND METALS INC.
Yukon Emerald Project	
Au Plot	
Date: 18/1/2004	
Author: M. Fietale	
Office: Val d'Or	
Drawing: YE-015	
Scale: 1:50000	Projection: UTM Zone 8 (NAD 83)
	







Helen Block

Gleam Block

Dazzle Block

Soil_2003 by Sr_ppm

- >3000
- 300 to 3,000
- <300

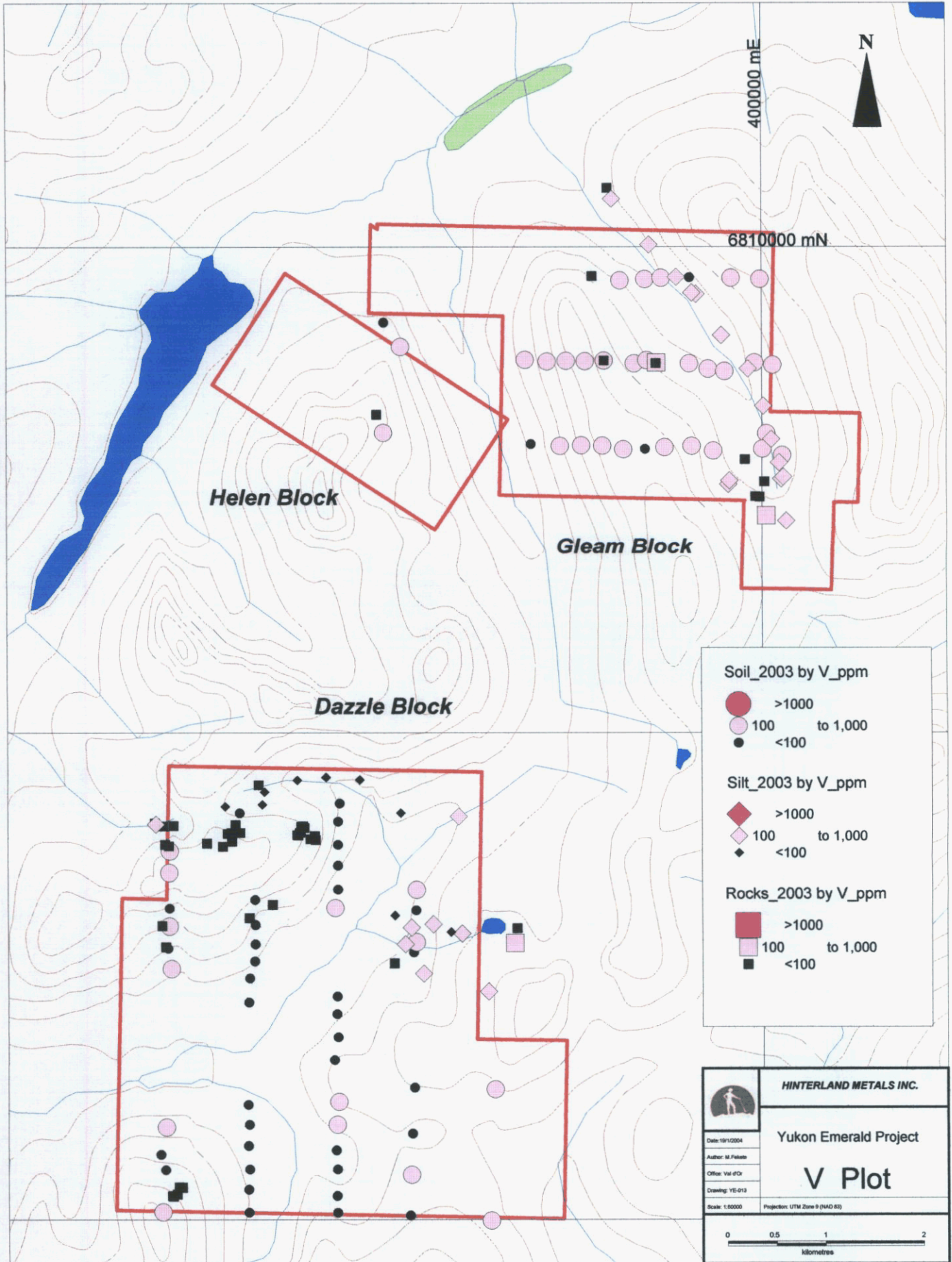
Silt_2003 by Sr_ppm

- ◆ >3000
- ◆ 300 to 3,000
- ◆ <300

Rocks_2003 by Sr_ppm

- >3000
- 300 to 3,000
- <300

	HINTERLAND METALS INC.
	Yukon Emerald Project
	Sr Plot
	<small>Date: 19/1/2004 Author: M. Felske Office: Val d'Or Drawing: YE-012 Scale: 1:50000 Projection: UTM Zone 9 (NAD 83)</small>



Soil_2003 by V_ppm


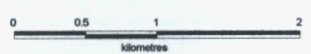
- >1000
- 100 to 1,000
- <100

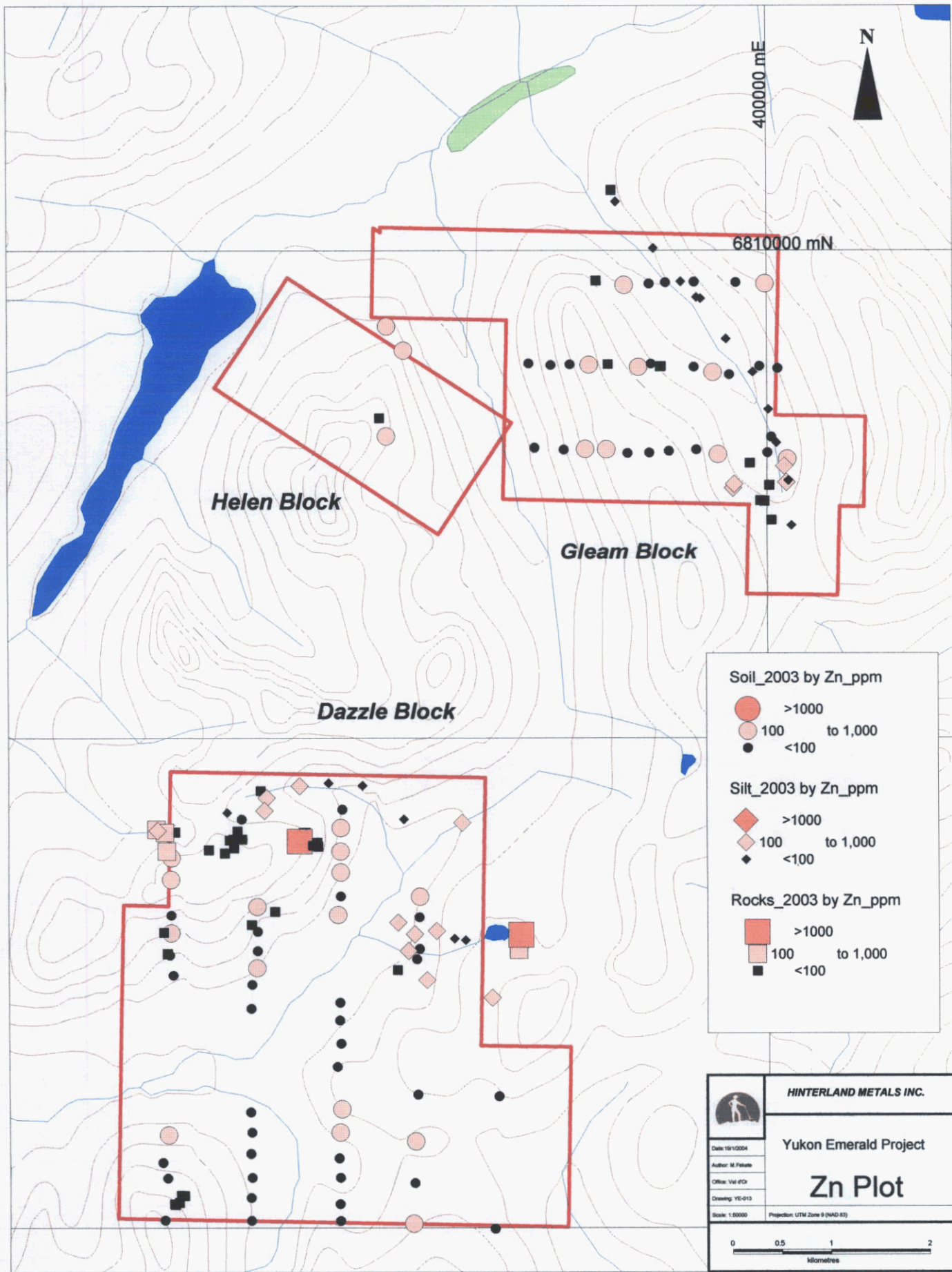
Silt_2003 by V_ppm

- ◆ >1000
- ◆ 100 to 1,000
- ◆ <100

Rocks_2003 by V_ppm

- >1000
- 100 to 1,000
- <100

	HINTERLAND METALS INC.
	Yukon Emerald Project
V Plot	
Date: 10/12/04 Author: M. Felske Office: Val d'Or Drawing: VE-013 Scale: 1:80000	Projection: UTM Zone 9 (NAD 83)
	





16. Conclusions

The Finlayson Lake Area has an impressive record of mineral discoveries over the past decade. These discoveries include both the recently discovered volcanic massive sulphide-type (VMS) base metal deposits and the Regal Ridge emerald prospects. Recent regional-scale geological mapping surveys of the area 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 provide new insights for further exploration in the area.

The discovery of the Helen Gold Zone represents a significant breakthrough for Hinterland in the Finlayson Lake area. It moves the Company's efforts in the area from the grassroots stage to the target evaluation stage.

The 2003 work represents the first attempt at exploration for emeralds on the Gleam and Dazzle properties. The emeralds at Regal Ridge occur in selvage zones of yellow sulphate mineralization and extensive fine-grained tourmaline mineralization adjacent to quartz veins cutting shallow dipping mica-chlorite schists of probable volcanic origin. The quartz veins seem to be genetically related to discordant mid-Cretaceous granitic rocks; however the host rock geochemistry appears to control emerald formation. This empirical model continues to be useful for emerald exploration in the Findlayson area.

Although Hinterland found no emeralds and in fact no beryl mineralization in 2003, a specific emerald target has been generated in the Twin Creeks area, located in the northern part of the Dazzle Property. This area lies directly adjacent to a mid-Cretaceous contact, is noticeably anomalous with respect to beryllium, chrome and arsenic, and contains pegmatite dykes, zones of yellow sulphate alteration and tourmaline mineralization.

17. Recommendations

The positive results of the 2003 Exploration Program clearly warrant continued exploration on the Dazzle, Gleam and Helen properties. It is the author's opinion that the properties are of sufficient merit for Hinterland proceed with a further aggressive exploration program. Furthermore, it is recommended that Hinterland continue reconnaissance-style exploration in the Finlayson Lake Area to identify and acquire other properties with gemstone and precious metal potential. It is recommended that the exploration be divided into two parts consisting of separate programs at the Helen Gold Zone and the Two Creeks Be Anomaly (Dazzle property) using a central base camp. The Helen Gold Zone must be brought to the diamond drilling stage as soon as possible by the completion of grid-controlled prospecting, geochemical and geophysical surveying. If drilling in the first phase intersects significant gold-silver mineralization, a second phase of drilling is recommended. The Two Creeks Be Anomaly must be prospected in detail with additional geochemical sampling. Recommended budgets exclude potential follow-up exploration phases for the Two Creek programs.



Table 3 – Cost Estimate for Proposed Exploration Program

4a: Phase 1 Cost Estimate

Phase I

Helen Gold Zone

Grid surveys and Initial Diamond Drilling

Geologist	30	days @	\$500	\$15,000
Assistant	30	days @	\$250	\$7,500
Linecutting	10	km @	\$600	\$6,000
Magnetic Survey	10	km @	\$150	\$1,500
Electromagnetic Survey	10	km @	\$300	\$3,000
Analyses	1000	@	\$35	\$35,000
Drilling	500	m @	\$125	\$62,500
				\$130,500

Two Creeks Be Anomaly

Detailed Prospecting

Geologist	15	days @	\$500	\$7,500
Assistant	15	days @	\$250	\$3,750
Analyses	350	@	\$35	\$12,250
				\$23,500

Camp, Aviation, Rentals etc.

Mob/demob	1	fixed @	\$30,000	\$30,000
Camp	1	fixed @	\$20,000	\$20,000
Helicopter	70	hours @	\$1,100	\$77,000
Float Plane	1000	miles @	\$10	\$10,000
Truck	1.5	month @	\$1,500	\$2,250
Radios	4	@	\$600	\$2,400
Sat Phone	1.5	month @	\$2,500	\$3,750
				\$145,400

Reports, Drafting and Misc.

Report	12	days @	\$500	\$6,000
Drafting	75	hours @	\$50	\$3,750
Permitting	1	fixed @	\$10,000	\$10,000
				\$19,750

Phase I Subtotal \$319,150

Contingency ~15% \$47,873

Phase I Total \$367,023



Table 4b: Phase 2 Cost Estimates

Phase II					
Helen Gold Zone					
Follow-up Diamond Drilling					
Drilling	1000	m @	\$125		\$125,000
Mob/demob	1	fixed @	\$15,000		\$15,000
Camp	1	fixed @	\$10,000		\$10,000
Helicopter	30	hours @	\$1,100		\$33,000
Float Plane	500	miles @	\$10		\$5,000
Truck	1	month @	\$1,500		\$1,500
Sat Phone	1	month @	\$2,500		\$2,500
Report	10	days @	\$500		\$5,000
Drafting	50	hours @	\$50		\$2,500
					<hr/>
					\$199,500
					<hr/>
				Phase II Subtotal	\$199,500
				Contingency ~15%	\$29,925
					<hr/>
				Phase II Total	\$229,425
					<hr/>
				Two Phase Total	\$596,448



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APPENDIX 1

STATEMENT OF EXPENDITURES

Appendix 1a: Statement of Expenditures, Dazzle Property

Appendix 1b: Statement of Expenditures, Gleam Property

Appendix 1c: Statement of Expenditures, Chris Property

BREAKAWAY



Appendix 1a: Statement of Expenditures, Dazzle Property

Wages (actual program):	\$8,776.02
Wages (Research and preparation):	\$ 419.13
Geochem (F + L):	\$2,441.19
Geochemical Analysis:	\$1,959.28
Shipping:	\$ 660.29
Supplies:	\$ 234.39
Lodging (Inconnu Lodge):	\$2,441.19
Fuel (lodging):	\$1,371.82
Radio/ Satellite Telephone Rentals:	\$ 255.79
Report Writing:	\$1,493.27
Drafting:	\$ 193.53
Helicopter Support:	\$5,061.57
<hr/>	
	Total: \$25,307.47

Appendix 1b: Statement of Expenditures, Gleam Property

Wages (actual program):	\$6,424.50
Wages (Research and preparation):	\$ 563.07
Geochem (F + L):	\$ 468.97
Geochemical Analysis:	\$1,632.31
Shipping:	\$ 508.31
Supplies:	\$ 175.88
Lodging (Inconnu Lodge):	\$1,832.75
Fuel (lodging):	\$1,029.96
Radio/ Satellite Telephone Rentals:	\$ 192.11
Report Writing:	\$1,120.53
Drafting:	\$ 145.78
Helicopter Support:	\$3,198.88
<hr/>	
	Total: \$17,283.06

Appendix 1c: Statement of Expenditures, Helen Property

Wages (actual program):	\$1,016.20
Wages (Research and preparation):	\$ 163.99
Geochem (F + L):	\$ 60.81
Geochemical Analysis:	\$ 302.83
Shipping:	\$ 99.27
Supplies:	\$ 25.82
Lodging (Inconnu Lodge):	\$ 237.68
Fuel (lodging):	\$ 133.56
Radio/ Satellite Telephone Rentals:	\$ 24.91
Report Writing:	\$ 195.31
Drafting:	\$ 38.91
Helicopter Support:	\$ 574.84
<hr/>	
	Total: \$2,874.81

BREAKAWAY



APPENDIX 2

SAMPLE DESCRIPTIONS

Appendix 2a : Dazzle Property Sample Descriptions

Appendix 2b : Gleam Property Sample Descriptions

Appendix 2c : Helen Property Sample Descriptions

BREAKAWAY

**Appendix 2a : Dazzle Property Sample Descriptions
NAD 83 Zone 9**

Rock Samples

Property	SAMPLE	Easting	Northing	Descriptions
Dazzle	K048	395301	6804036	Rock qtz tourmaline
Dazzle	K049	395281	6804033	o/c Heavey tourmiline
Dazzle	K050	395275	6803973	Rock talus
Dazzle	K051	395418	6803936	Rock (o/c) qtz, crystal
Dazzle	L040	395313	6804018	n/a
Dazzle	L041	395265	6803967	n/a
Dazzle	L042	395250	6803941	n/a
Dazzle	L043	395240	6803944	n/a
Dazzle	L045	395428	6803893	n/a
Dazzle	L046	395375	6803901	n/a
Dazzle	M027	393928	6803830	n/a
Dazzle	M029	393975	6804039	n/a
Dazzle	M037	394657	6803967	n/a
Dazzle	M038	394846	6804462	n/a
Dazzle	S044	394572	6803877	n/a
Dazzle	S047	394479	6803824	n/a
Dazzle	S050	394316	6803857	n/a
Dazzle	S052	396229	6802631	n/a
Dazzle	S053	396922	6808811	n/a
Dazzle	T003	393896	6802796	Rock - Tourmaline - Quartz
Dazzle	T004	393893	6802801	n/a
Dazzle	T009	393960	6800238	Rock - Tourmaline - Quartz - Schist. Talus spread over an area (50m X 150m)
Dazzle	T022	394608	6804049	Rock of tourmaline / quartz in intrusive contact with quartzites
Dazzle	T023	394568	6803966	Intrusive chilled margin of quartz / Tourmaline chlorite alteration/some pegmatitic textures
Dazzle	T024	394530	6803957	Same as 023, 50m West along intrusive / quartzite contact
Dazzle	T025	394052	6800329	Massive Arsenopyrite in blebs and stockwork through quartz vein. Blond to grey micaceous quartz schist veins along bedding, strike 178°, dip 18° subcrop material 30cm wide vein.
Dazzle	T026	394021	6800333	Massive fine grain tourmaline quartz vein 30cm wide float boulder SE 20m from 025
Dazzle	T027	394001	6800260	Quartz / Tourmaline vein (100m from 025) fine grained massive tourmaline stockwork through quartz
Dazzle	T028	393952	6800246	Quartz pyrite tourmaline (150m) vein 25 cm across mineralization in fractures and vugs
Dazzle	T030	394750	6803093	Rock mafic schist with pyrite outcrop
Dazzle	T031	394986	6803230	Rock Quartz - tourmaline felsic material in altered schist within subcrop

**Appendix 2b : Gleam Property Sample Descriptions
NAD 83 Zone 9**

Property	SAMPLE	Easting	Northing	Descriptions
Gleam	K023	398430	6810610	Float in Creekbed
Gleam	K027	399826	6807828	Float in Creekbed
Gleam	L018	400024	6807600	Rock Sample
Gleam	L020A	399934	6807447	Rock Sample
Gleam	L020B	399934	6807447	Rock Sample
Gleam	L020C	399975	6807442	n/a
Gleam	L020D	399975	6807442	n/a
Gleam	L021	400044	6807249	Rock Sample
Gleam	S001	398392	6808838	n/a
Gleam	S006	398928	6808818	n/a
Gleam	S015	398274	6809698	n/a

**Appendix 2c : Helen Property Sample Descriptions
NAD 83 Zone 9**

Rock Samples

Helen	M019A	396065	6808288	Helen Gold Zone 0.5 m chip
Helen	M019B	396065	6808288	Helen Gold Zone 1.0 m chip
Helen	M019C	396065	6808288	Helen Gold Zone 1.0 m chip
Helen	M019D	396065	6808288	Helen Gold Zone 1.0 m chip
Helen	M019E	396065	6808288	Helen Gold Zone 1.0 m chip
Helen	M019F	396065	6808288	Helen Gold Zone 0.5 m chip

ROCK SAMPLE DESCRIPTION SHEET

Appendix 2c: Helen Property Year-2004 Rock Sample Descriptions

Hinterland Metals Inc.

Sample No.	Eastng (UTM)	Northng (UTM)	Sample Type	Width (m)	Sample Description	Formation	Lithology	Modifier	Colour	Carbonate Presence	Silicification	Alteration 1	Alteration 2	Other	Mineral 1	Amount (%)	Mineral 2	Amount (%)	Other Mineral	Amount (%)	Date	Sampler	Comments
RM269513	396245	6806320	CGr		Prox. Ta	MGg	Qz-As Vn	Band	gry-white					Lim2	As	12	Cpy	1	Py	tr	6/10/2004	CS	Banded Qz-arseno boulders to 40 cm
RM269514	396245	6806320	CGr			MGg	Qz-As Vn	frac	white					Lim1	As	3	Cpy	tr	Py	tr	6/10/2004	CS	Clotty + fracture-controlled arseno
RM269515	396245	6806320	CGr			MGg	Qz-As Vn	vein	grey					Lim1	As	60	Scor	strong			6/10/2004	CS	Massive arseno band in Qz vein
RM269516	396245	6806320	CGr		Prox. CV	MGg	Qz Vein	vuggy	tan			A1		Lim2	As	tr					6/10/2004	CS	Limonite after Py in fractures, vugs



APPENDIX 3

SAMPLE LOCATIONS AND COMPILATION OF ANALYTICAL RESULTS

Appendix 3a : Dazzle Property Sample Results

Appendix 3b : Gleam Property Sample Results

Appendix 3c : Helen Property Sample results

BREAKAWAY

Appendix 3a: Dazzle Property Rock Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Dazzle	K048	395301	6804036	0.009	0.50	7.1	45	220	10.7	2	0.04	0.5	1	98	25	0.94	4.51
Dazzle	K049	395281	6804033	0.005	0.50	7.38	5	170	6.2	2	0.07	0.5	2	69	22	0.71	4.1
Dazzle	K050	395275	6803973	0.011	0.50	5.77	178	850	3.8	2	0.02	0.5	3	84	18	2.54	3.65
Dazzle	K051	395418	6803936	0.005	0.50	0.99	48	100	2.2	2	0.01	0.5	4	165	4	0.83	0.41
Dazzle	L040	395313	6804018	0.009	0.50	5.9	26	160	5.4	2	0.16	0.5	1	106	21	1.04	3.55
Dazzle	L041	395265	6803967	0.005	0.50	0.72	155	30	9.4	2	0.03	0.5	2	218	4	0.95	0.25
Dazzle	L042	395250	6803941	0.005	0.50	4.05	29	330	46.5	2	0.12	0.5	1	187	3	0.65	2.95
Dazzle	L043	395240	6803944	0.005	0.50	1.37	35	120	8.7	2	11.15	17.8	9	16	62	2.97	0.79
Dazzle	L045	395428	6803893	0.005	0.70	6.59	238	70	14.3	2	0.23	0.5	2	89	3	0.71	3.54
Dazzle	L046	395375	6803901	0.005	0.50	7.14	5	60	9.1	8	0.28	0.5	1	81	2	0.5	3.27
Dazzle	M027	393928	6803830	0.005	0.50	3.18	5	110	73.5	2	0.04	0.5	1	186	18	0.97	2.67
Dazzle	M029	393975	6804039	0.005	0.50	2.89	164	90	3.7	2	8.7	0.5	134	1105	294	7.69	2.29
Dazzle	M030	393870	6804036	0.036	1.10	5.53	3470	160	7.1	2	15.65	0.5	7	43	43	3.87	2.62
Dazzle	M037	394657	6803967	0.005	0.50	7.47	68	210	5.6	2	0.3	0.5	2	79	5	0.69	4.01
Dazzle	M038	394846	6804462	0.005	0.50	6.82	1895	320	4.6	2	0.08	0.5	1	110	50	0.64	3.27
Dazzle	S044	394572	6803877	0.005	0.50	5.67	5	220	10.2	2	0.95	0.5	1	124	3	0.89	3.03
Dazzle	S047	394479	6803824	0.010	4.30	1.21	10000	60	1.1	10	1.64	0.5	4	177	8	2.1	0.54
Dazzle	S050	394316	6803857	0.005	0.50	6.38	76	170	13.7	11	0.28	0.5	1	49	3	0.5	3.43
Dazzle	S052	396229	6802631	0.005	0.50	2.95	4460	560	3.7	2	0.12	0.5	4	125	41	1.38	1.32
Dazzle	S053	398922	6808811	0.005	0.60	8.49	30	90	1.6	2	7.07	0.5	11	133	19	3.88	0.44
Dazzle	T003	393896	6802796	0.005	0.50	7.44	39	70	16	2	0.26	0.5	11	82	20	2.14	0.98
Dazzle	T004	393893	6802801	0.14	3.2	1.08	10000	40	1.4	13	0.29	0.8	18	166	2	13.1	0.12
Dazzle	T009	393960	6800238	0.005	0.50	7.56	15	150	4	2	0.2	0.5	7	117	28	4.16	1.16
Dazzle	T022	394608	6804049	0.005	0.50	6.33	14	560	3.7	63	1.08	0.5	2	87	2	0.91	3.53
Dazzle	T023	394568	6803966	0.005	0.50	4.5	5	70	5.9	2	0.71	0.5	2	122	4	0.88	1.02
Dazzle	T024	394530	6803957	0.005	0.50	7.57	6	270	10.2	2	0.81	0.5	2	48	3	0.89	2.65
Dazzle	T025	394052	6800329	0.008	0.50	0.91	10000	10	0.5	3	0.04	0.5	77	228	16	6.34	0.05
Dazzle	T026	394021	6800333	0.005	0.50	6.65	268	130	3.3	2	0.3	0.5	5	121	21	3.45	0.72
Dazzle	T027	394001	6800260	0.005	0.50	8.32	123	650	3.1	2	0.23	0.5	8	122	34	4.75	2.45
Dazzle	T028	393952	6800246	0.005	0.50	3.05	8	190	0.9	2	0.48	0.5	13	157	57	2.1	0.71
Dazzle	T030	394750	6803093	0.005	0.50	7.13	16	490	10.8	2	3.35	0.5	10	97	77	4.6	4.02
Dazzle	T031	394986	6803230	0.005	0.50	6.95	20	40	25.3	5	0.16	0.5	1	98	10	0.8	2.67

Appendix 3a: Dazzle Property Rock Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Pt	Pd	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
K048	0.23	116	3	1.14	3	280	90			0.03	5	18	0.03	2	10	40
K049	0.18	369	2	1.65	5	270	65			0.01	5	37	0.06	2	10	73
K050	0.29	78	5	0.11	7	150	24			0.02	5	23	0.2	48	10	48
K051	0.08	428	5	0.01	5	60	20			0.01	5	5	0.02	4	10	52
L040	0.22	186	2	0.66	2	680	65			0.01	5	11	0.05	3	10	37
L041	0.09	259	4	0.01	5	40	19			0.01	5	3	0.01	2	10	52
L042	0.07	114	5	0.08	6	610	49			0.01	5	10	0.01	4	10	15
L043	7.47	4210	1	0.05	10	40	8			0.35	5	165	0.03	13	380	2090
L045	0.14	617	2	1.72	3	370	60			0.01	5	9	0.03	6	20	36
L046	0.09	214	1	2.25	2	340	42			0.01	5	19	0.04	1	10	25
M027	0.07	87	3	0.16	3	320	24			0.05	5	19	0.01	3	10	19
M029	7.48	1520	1	0.05	1200	190	8			1.74	6	124	0.2	76	10	80
M030	0.56	2610	1	0.03	17	500	25			1.95	7	1215	0.13	50	10	224
M037	0.14	379	1	0.10	12	460	39			0.03	5	12	0.04	2	10	38
M038	0.28	127	1	0.02	5	170	51			0.1	5	11	0.05	5	10	16
S044	0.35	251	2	1.36	7	240	37			0.01	5	59	0.03	5	10	9
S047	0.19	578	3	0.01	10	60	455			1.02	8	30	0.05	17	10	61
S050	0.11	115	1	1.82	5	390	48			0.01	5	13	0.02	2	10	11
S052	0.23	150	1	0.02	20	270	15			0.16	5	12	0.13	93	10	73
S053	1.88	608	1	4.19	22	660	32			0.04	5	894	0.45	83	10	61
T003	0.72	341	1	3.26	22	440	12			0.01	5	46	0.14	24	10	48
T004	0.1	74	15	0.32	28	130	110			6.88	42	69	0.09	13	70	11
T009	1.14	231	1	0.63	27	360	10			0.01	5	93	0.29	67	10	77
T022	0.22	182	1	1.31	5	480	58			0.01	5	101	0.06	9	10	16
T023	0.27	158	2	1.51	7	150	19			0.01	5	56	0.05	8	10	17
T024	0.22	118	1	2.68	5	220	38			0.01	5	97	0.04	8	10	23
T025	0.17	43	1	0.08	16	130	8			2.71	7	15	0.03	10	10	14
T026	1.05	195	1	0.90	16	640	13			0.02	5	128	0.31	56	10	77
T027	1.08	404	1	0.48	20	340	11			0.02	5	93	0.39	81	10	66
T028	0.3	136	1	0.55	48	100	4			0.24	5	47	0.13	28	10	20
T030	0.84	843	1	1.44	19	1760	21			1.19	5	142	0.82	49	10	46
T031	0.04	2020	1	2.88	8	490	22			0.01	5	7	0.01	1	10	51

Appendix 3a: Dazzle Property Soil Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Dazzle	A002	394806	6803281	0.5	8.40	926	1120	6.4	2	0.59	0.5	11	37	163	5.20	3.08
Dazzle	A005	394809	6803024	0.5	6.55	26	810	2.2	2	1.57	0.5	3	14	23	2.35	1.99
Dazzle	A006	394808	6802828	0.5	6.25	138	700	2.3	3	0.95	0.5	6	29	21	3.50	2.29
Dazzle	A007	394803	6802652	0.5	8.01	5	220	3.1	2	3.67	0.5	26	36	27	4.76	0.86
Dazzle	A009	394751	6802479	0.5	7.55	97	720	2.2	2	1.16	0.5	7	35	28	3.21	1.93
Dazzle	A012	394742	6802234	0.5	6.63	15	610	2.9	2	2.15	0.5	8	15	19	2.25	1.89
Dazzle	A014	394731	6801180	0.5	5.73	30	1060	1.9	2	1.16	0.5	7	30	21	2.74	1.69
Dazzle	A015	394742	6800973	0.5	5.74	18	990	1.4	2	0.76	0.5	5	20	16	2.26	1.66
Dazzle	A016	394732	6800074	0.5	7.13	17	470	3.3	2	1.02	0.5	9	23	24	3.28	2.55
Dazzle	A017	394731	6800309	0.5	7.77	7	550	2.7	2	1.29	0.5	12	42	19	3.50	2.41
Dazzle	A018	394742	6800515	0.5	6.63	5	540	1.4	2	1.41	0.5	6	43	9	3.20	1.92
Dazzle	A019	394731	6800757	0.5	5.82	5	520	1.3	2	0.96	0.5	4	37	9	2.60	1.85
Dazzle	A022	395640	6800072	0.5	7.58	5	530	2.7	2	0.59	0.5	7	20	17	2.60	3.11
Dazzle	A023	395634	6800244	0.5	7.72	5	540	2.6	2	1.12	0.5	12	24	15	3.09	2.65
Dazzle	A024	395639	6800515	0.5	7.14	5	590	2.4	2	1.23	0.5	12	33	16	3.67	2.28
Dazzle	A025	395628	6800712	0.5	6.81	5	540	1.8	2	1.01	0.5	3	20	9	2.15	2.20
Dazzle	A026	395639	6800973	0.5	7.50	57	1570	1.9	2	1.23	0.5	20	46	95	4.67	1.83
Dazzle	A027	395658	6801210	0.5	6.59	12	1260	1.2	2	2.09	0.5	42	126	198	6.89	1.03
Dazzle	A029	395614	6801641	0.5	6.37	61	2220	2.2	2	0.25	0.5	8	25	31	2.52	2.48
Dazzle	A030	395652	6801876	0.5	6.45	48	2110	2.4	2	0.49	0.5	10	31	31	2.66	2.43
Dazzle	A031	395641	6802115	0.5	5.16	15	1340	1.1	2	0.80	0.5	5	20	11	1.51	1.41
Dazzle	A032	395645	6802295	0.5	6.98	39	1520	1.7	2	1.28	0.5	10	29	44	3.01	1.83
Dazzle	A033	395626	6803197	0.5	6.24	53	1740	2.3	2	1.13	0.5	11	52	60	3.19	1.84
Dazzle	A034	395673	6804271	0.5	7.56	18	770	1.9	2	2.14	0.5	7	14	20	2.45	1.96
Dazzle	A035	395658	6804084	0.5	7.65	174	790	5.2	2	1.69	0.5	12	36	40	3.85	2.37
Dazzle	A036	395654	6803843	0.5	8.19	172	650	5.6	2	1.40	0.5	10	31	25	3.42	2.69
Dazzle	A037	395654	6803629	0.5	7.36	170	600	4.4	2	1.54	0.5	10	22	40	3.29	2.03
Dazzle	A038	395654	6803388	0.5	7.34	33	590	5.4	2	1.18	0.5	4	13	9	1.68	2.76
Dazzle	M021	393929	6803557	0.5	6.68	67	700	3.6	2	1.31	0.5	31	83	130	5.17	1.59
Dazzle	M026	393936	6803776	0.7	8.21	181	720	4.2	2	1.06	0.5	22	81	184	6.09	3.31
Dazzle	M036	394652	6804171	0.5	10.85	49	450	20.5	3	0.60	0.5	13	32	13	3.44	4.22
Dazzle	S029	396426	6802744	0.5	5.08	5	1330	0.9	2	0.68	0.5	4	21	12	1.57	1.42
Dazzle	S030	396455	6802848	0.5	4.97	35	1660	1.1	2	0.59	0.5	8	58	21	2.61	1.36
Dazzle	S031	396453	6803172	0.5	5.09	6	1440	1.0	2	0.61	0.5	3	29	5	1.00	1.60
Dazzle	S032	396458	6803384	0.5	7.13	243	1800	2.6	2	1.09	0.5	20	60	71	4.58	1.97
Dazzle	S034	396432	6801358	0.5	6.22	8	1200	1.3	2	1.00	0.5	5	12	12	1.69	1.97
Dazzle	S037	396408	6800882	0.5	6.55	167	1730	1.7	2	1.28	0.5	10	39	59	3.31	1.82
Dazzle	S039	396396	6800460	0.5	7.85	8	960	2.1	2	1.19	0.5	17	50	22	5.87	3.03

Appendix 3a: Dazzle Property Soil Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
A002	1.45	1045	2	0.68	28	840	51	0.08	5	92	0.40	84	10	193
A005	0.62	736	5	1.86	11	750	17	0.05	5	395	0.30	66	10	99
A006	0.86	635	1	1.22	9	1380	24	0.04	5	237	0.47	96	10	84
A007	1.06	1115	1	0.49	46	1700	20	0.13	5	643	0.41	72	10	124
A009	0.85	519	1	1.56	22	1100	19	0.02	5	295	0.62	98	10	56
A012	0.81	512	1	1.98	14	840	18	0.06	5	455	0.29	55	10	52
A014	0.81	605	1	1.16	21	460	22	0.02	5	193	0.39	84	10	62
A015	0.53	538	1	1.24	14	650	16	0.01	5	228	0.29	77	10	43
A016	0.70	550	1	1.00	28	910	32	0.05	5	185	0.27	60	20	79
A017	1.04	502	1	1.21	38	870	19	0.04	5	258	0.40	74	10	69
A018	0.71	666	1	1.00	19	550	20	0.01	5	365	0.54	94	10	41
A019	0.49	309	1	1.08	13	490	18	0.02	5	253	0.44	87	10	31
A022	0.60	363	1	1.22	30	770	24	0.01	5	119	0.25	45	10	62
A023	0.84	407	1	1.27	24	780	20	0.04	5	272	0.31	60	10	93
A024	1.12	521	1	1.09	28	760	16	0.07	5	190	0.43	87	10	89
A025	0.59	353	1	1.31	15	810	20	0.04	5	237	0.34	59	10	42
A026	1.15	1805	3	1.01	54	940	37	0.04	5	228	0.32	128	10	134
A027	3.06	1780	1	0.73	92	1110	19	0.04	5	190	0.70	209	10	381
A029	0.58	929	1	0.82	23	530	26	0.02	5	58	0.20	67	10	72
A030	0.85	1100	1	0.72	35	230	24	0.01	5	72	0.23	67	10	70
A031	0.45	758	1	1.22	13	790	12	0.03	5	206	0.24	62	10	36
A032	0.91	1420	1	1.52	28	630	26	0.02	5	316	0.28	80	10	81
A033	1.35	1010	1	1.02	43	640	27	0.05	5	133	0.41	101	10	101
A034	0.89	495	1	2.36	16	620	17	0.05	5	547	0.31	65	10	68
A035	1.28	767	1	1.37	31	1180	33	0.07	5	260	0.45	92	30	160
A036	1.12	511	1	1.58	31	820	40	0.04	5	257	0.47	87	10	101
A037	0.98	638	1	1.44	32	620	34	0.04	5	315	0.29	67	10	170
A038	0.54	312	1	1.70	11	530	26	0.01	5	260	0.35	49	10	48
M021	2.43	940	2	1.01	70	1140	31	0.04	5	170	0.58	141	90	131
M026	2.50	1455	3	0.75	98	1060	49	0.09	5	129	0.69	156	10	287
M036	1.00	1190	1	1.28	40	1200	83	0.02	5	122	0.46	70	20	88
S029	0.34	1215	1	1.50	9	420	15	0.01	5	183	0.29	67	10	26
S030	0.68	822	1	0.73	21	1220	11	0.02	5	90	0.38	122	10	50
S031	0.40	477	1	1.12	11	370	11	0.01	5	142	0.43	68	10	22
S032	1.24	2580	6	0.92	62	1560	34	0.06	5	143	0.33	112	10	282
S034	0.46	605	1	1.72	8	510	14	0.03	5	285	0.21	53	10	38
S037	0.98	1190	1	1.28	40	860	20	0.05	5	209	0.32	96	10	118
S039	0.99	1255	1	1.04	30	1570	22	0.06	5	174	0.63	202	10	57

Appendix 3a: Dazzle Property Silt Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Dazzle	K033	394503	6804239	0.5	15.70	11	360	11.7	2	0.26	0.5	3	5	4	2.65	5.55
Dazzle	K034	394907	6804390	0.5	12.05	581	670	15.3	4	0.73	0.5	13	23	83	4.64	3.92
Dazzle	K036	394885	6804260	0.5	11.75	636	600	12.9	3	0.82	0.7	16	31	68	4.70	3.91
Dazzle	K038	395242	6804511	0.5	8.57	147	600	8.7	4	0.53	0.7	4	5	14	1.99	3.65
Dazzle	K040	395536	6804541	0.5	8.31	109	550	12.8	2	0.71	0.5	4	6	9	1.84	3.35
Dazzle	K042	395880	6804515	0.5	8.07	71	600	8.2	22	0.59	0.5	2	5	6	1.57	3.57
Dazzle	K044	396299	6804171	0.5	8.19	61	610	8.2	2	0.57	0.5	2	4	7	1.61	3.66
Dazzle	L023	396892	6804136	0.5	7.22	128	980	3.1	2	1.92	2.1	16	43	79	4.25	2.15
Dazzle	L025	396923	6802936	0.5	6.61	43	1550	1.7	2	1.03	0.5	10	55	37	3.52	1.67
Dazzle	L026	396811	6802952	0.5	5.98	43	950	1.5	2	2.05	0.5	7	22	34	2.31	1.19
Dazzle	L028	396628	6803032	0.5	6.15	68	1980	1.6	2	1.47	0.5	16	59	68	3.70	1.53
Dazzle	L030	396405	6802998	0.5	5.70	78	1770	1.5	2	1.21	0.5	12	62	51	3.33	1.37
Dazzle	L031	396237	6803119	0.5	5.20	87	1520	1.7	2	1.41	0.6	13	50	51	3.07	1.57
Dazzle	L033	396529	6802527	0.5	8.54	114	1880	2.6	2	1.13	0.5	20	56	93	4.43	2.35
Dazzle	L036	396343	6802827	0.5	6.28	63	2540	1.9	2	1.29	0.5	17	55	79	3.97	1.85

Appendix 3a: Dazzle Property Silt Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
K033	0.58	538	1	0.12	2	1520	139	0.02	5	98	0.41	57	10	91
K034	1.33	1240	2	1.23	27	1050	104	0.06	5	146	0.36	81	10	316
K036	1.73	1475	4	0.41	25	1130	65	0.04	5	114	0.49	98	20	297
K038	0.43	742	1	1.74	6	880	101	0.03	5	180	0.2	30	10	153
K040	0.48	493	1	1.83	8	870	54	0.02	5	209	0.21	36	10	77
K042	0.38	552	1	1.91	6	850	52	0.01	5	198	0.18	28	10	67
K044	0.37	503	1	1.96	6	740	50	0.01	5	196	0.18	27	10	63
L023	1.72	1640	1	1.43	35	1220	32	0.07	5	154	0.63	110	10	682
L025	1.12	860	1	1.18	45	1150	18	0.02	5	146	0.42	118	10	79
L026	0.59	1730	3	1.22	24	4650	12	0.20	5	316	0.19	61	10	96
L028	1.33	1520	1	0.90	58	1540	21	0.06	5	144	0.4	123	10	164
L030	1.11	1265	10	0.84	46	1460	20	0.07	5	134	0.34	105	10	150
L031	1.14	1315	1	0.81	45	1270	22	0.07	5	118	0.39	89	10	171
L033	1.43	1505	1	0.69	51	1130	36	0.11	5	157	0.31	120	10	132
L036	1.33	2130	1	0.73	52	1550	20	0.04	5	120	0.39	118	10	110

Appendix 3b: Gleam Property Rock Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Gleam	K023	398430	6810610	0.005	0.50	9.36	5	1100	1.8	2	7.78	0.5	21	146	94	5.26	1.96
Gleam	K027	399826	6807828	0.005	0.50	1.74	5	140	0.5	2	16.15	0.5	19	48	42	8.27	0.06
Gleam	L018	400024	6807600	0.005	0.50	11.25	5	210	3.7	2	2.07	0.5	16	77	68	4.29	1.51
Gleam	L020A	399934	6807447	0.005	0.50	3.09	5	10	0.5	2	24.1	0.5	4	84	2	2.09	0.01
Gleam	L020B	399934	6807447	0.005	0.50	3.35	5	10	0.5	2	21.6	0.5	11	113	2	2.61	0.01
Gleam	L020C	399975	6807442	0.14	0.6	8.21	41	30	1.6	3	5.77	0.5	44	124	52	4.96	0.12
Gleam	L020D	399975	6807442	0.21	9.5	9.24	26	20	0.8	16	2.83	2.4	9	58	22	2.29	0.09
Gleam	L021	400044	6807249	0.005	0.50	4.28	5	10	3.1	2	9.74	0.5	17	116	6	5.84	0.03
Gleam	S001	398392	6808838	0.005	0.50	2.18	16	40	0.5	2	25	0.5	5	21	4	1.14	0.19
Gleam	S006	398928	6808818	0.005	0.80	6.2	13	20	1.9	2	8.03	0.5	15	210	43	6.72	0.11
Gleam	S015	398274	6809698	0.005	0.50	2.86	5	1240	0.5	2	11.2	0.5	4	83	4	1.36	3.02

Appendix 3b: Gleam Property Rock Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Pt	Pd	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
K023	2.15	787	1	0.87	38	540	24			0.66	5	1385	0.4	94	10	58
K027	6.66	3350	1	0.17	14	130	10			0.15	5	180	0.17	86	10	83
L018	1.59	606	1	3.87	38	480	34			0.12	6	420	0.46	66	10	56
L020A	0.5	608	1	0.01	18	300	17			0.01	5	447	0.18	31	10	22
L020B	0.77	1010	1	0.01	24	340	11			0.01	6	188	0.26	35	10	28
L020C	1.77	593	9	3.34	79	710	130			0.52	5	848	0.4	64	10	85
L020D	0.76	278	6	5.94	18	590	8470			0.17	5	412	0.14	32	10	30
L021	3.1	985	1	0.13	27	420	34			0.03	9	762	0.3	131	10	88
S001	0.62	2060	1	1.00	17	150	8			0.01	5	452	0.07	25	10	14
S006	2.52	715	1	0.64	40	500	24			0.02	5	1185	0.21	115	10	99
S015	0.32	1320	1	0.12	6	940	10			0.01	5	228	0.17	39	10	14

Appendix 3b: Gleam Property Soil Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Gleam	L001	398199	6808832	0.5	7.32	5	690	2.3	2	1.53	0.5	33	85	29	6.88	2.30
Gleam	L002	398005	6808836	0.5	7.69	5	600	2.3	2	2.56	0.5	24	103	30	6.09	2.10
Gleam	L003	397810	6808829	0.5	7.50	59	420	1.8	2	2.82	0.5	35	283	60	6.61	1.28
Gleam	L004	397586	6808846	0.5	7.08	9	510	1.6	2	3.22	0.5	33	144	41	5.91	1.26
Gleam	L005	398809	6807936	0.5	5.12	5	590	1.1	2	1.67	0.5	6	7	34	1.48	1.21
Gleam	L006	398588	6807932	0.5	7.32	5	420	1.5	2	3.23	0.5	26	83	24	7.10	1.26
Gleam	L007	398373	6807970	0.5	8.19	5	500	1.2	2	4.07	0.5	44	184	61	7.67	1.48
Gleam	L008	398158	6807973	0.5	9.24	39	500	3.5	2	1.63	0.5	17	80	46	5.92	2.92
Gleam	L009	397940	6807967	0.5	8.08	5	520	1.9	2	3.75	0.5	21	116	39	5.85	1.71
Gleam	L010	397643	6807987	0.5	7.54	5	740	1.3	2	1.81	0.5	6	7	16	1.90	2.14
Gleam	L011	399009	6807953	0.5	8.66	5	510	1.6	2	4.62	0.5	43	144	138	7.77	1.68
Gleam	L012	399285	6807967	0.5	7.34	5	670	1.8	2	2.45	0.5	28	93	73	6.13	1.89
Gleam	L013	399504	6807918	0.5	8.15	16	580	2.1	2	3.04	0.5	25	190	74	6.68	1.74
Gleam	L014	400045	6808095	0.5	8.16	5	500	1.8	2	2.76	0.5	20	106	27	6.11	1.33
Gleam	L015	400005	6807936	0.5	8.00	5	440	1.8	2	4.33	0.5	27	126	38	6.23	1.51
Gleam	L016	400205	6807871	0.5	8.16	60	490	2.2	2	2.50	0.5	22	58	37	4.88	1.84
Gleam	S001	398392	6808838	0.5	8.17	5	570	1.8	2	1.41	0.5	26	149	22	7.08	1.77
Gleam	S003	398701	6808808	0.5	8.59	7	730	4.3	2	2.18	0.5	19	81	39	5.53	2.06
Gleam	S005	398828	6808842	0.5	8.86	9	590	3.0	2	3.45	0.5	23	132	42	6.40	1.81
Gleam	S006	398928	6808818	0.5	7.19	40	310	1.3	2	3.94	0.5	44	330	130	6.76	0.93
Gleam	S007	399262	6808808	0.5	7.40	87	500	1.6	2	3.85	0.5	10	61	16	4.06	1.42
Gleam	S008	399453	6808754	0.5	8.27	70	420	1.5	2	4.60	0.5	51	100	85	7.80	1.22
Gleam	S009	399621	6808730	0.5	8.26	5	390	1.9	2	3.53	0.5	35	97	27	5.23	1.17
Gleam	S010	400110	6808794	0.5	7.95	5	590	1.8	2	2.15	0.5	13	50	19	4.11	1.77
Gleam	S011	399926	6808817	0.5	8.90	5	440	1.9	2	2.17	0.5	16	91	14	5.76	1.71
Gleam	S017	398559	6809653	0.5	8.41	5	650	2.3	2	3.53	0.5	28	98	38	7.23	1.65
Gleam	S018	398812	6809666	0.5	7.40	6	430	1.5	2	3.90	0.5	30	212	30	5.70	1.12
Gleam	S019	398978	6809679	0.5	7.54	128	650	2.1	2	2.13	0.5	19	102	34	4.98	1.95
Gleam	S020	399267	6809684	0.5	6.70	7	460	1.2	2	3.22	0.5	47	530	104	5.78	0.99
Gleam	S022	399984	6809666	0.5	8.64	11	1100	2.1	2	3.33	3.9	33	118	71	6.00	2.17
Gleam	S023	399689	6809679	0.5	7.64	19	490	1.8	2	4.37	0.5	22	75	24	6.45	1.90
Gleam	S041	396383	6800044	0.5	10.65	6	1260	2.5	2	2.01	0.5	28	56	58	5.70	2.05
Gleam	T001	393931	6803192	0.5	6.51	40	700	2.5	2	1.56	0.5	11	29	21	2.93	1.74
Gleam	T002	393930	6803009	0.5	9.17	49	580	6.0	2	2.86	0.5	29	156	49	6.81	1.77
Gleam	T005	393916	6802785	0.5	6.19	41	550	2.6	2	1.43	0.5	7	29	17	2.41	1.41
Gleam	T006	393951	6802575	0.5	7.75	89	760	2.5	2	1.22	0.5	10	56	34	4.15	1.82
Gleam	T008	393853	6800079	0.5	7.41	6	740	2.0	2	1.53	0.5	14	56	22	4.17	1.64
Gleam	T010	393884	6800509	0.5	7.25	5	600	1.5	2	2.26	0.5	9	16	31	3.00	1.79
Gleam	T011	393836	6800668	0.5	8.67	17	510	2.6	3	0.61	0.5	4	22	13	2.92	2.64
Gleam	T012	393896	6800947	0.5	9.99	21	660	2.9	2	1.19	0.5	18	50	32	5.41	2.56
Gleam	T017	397256	6801340	0.5	7.84	10	2420	2.0	2	0.53	0.5	6	29	44	3.16	2.19
Gleam	T019	397211	6799991	0.5	7.20	5	530	1.6	2	1.98	0.5	18	81	16	6.17	1.40

Appendix 3b: Gleam Property Soil Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L001	2.49	1980	1	0.92	47	1060	11	0.06	5	117	0.82	183	10	226
L002	2.41	913	1	1.12	51	890	11	0.03	5	167	0.77	190	10	84
L003	5.01	895	2	1.00	224	830	18	0.03	5	187	0.74	188	10	86
L004	3.49	918	1	1.03	116	1210	11	0.03	5	239	0.68	190	10	90
L005	0.43	323	1	1.80	11	690	8	0.06	5	389	0.16	37	10	30
L006	2.70	1340	1	1.06	36	1550	10	0.07	5	199	0.88	257	10	67
L007	4.21	1190	1	0.88	124	940	13	0.03	5	248	0.80	216	10	107
L008	2.38	793	1	0.78	55	1200	25	0.03	5	139	0.68	180	10	113
L009	3.44	783	1	1.18	81	1800	32	0.01	5	268	0.82	198	10	90
L010	0.64	381	1	2.61	5	340	14	0.01	5	551	0.25	46	10	51
L011	3.87	1340	1	0.93	97	1110	17	0.06	5	216	0.85	224	10	94
L012	2.56	1125	1	0.93	64	1410	32	0.06	5	169	0.87	205	10	82
L013	3.80	975	1	1.15	121	1910	22	0.03	5	213	0.92	237	10	154
L014	2.54	833	1	1.38	52	1240	16	0.04	5	257	0.81	189	10	76
L015	3.11	997	1	1.50	64	1290	11	0.01	5	260	1.04	200	10	86
L016	1.53	782	1	1.38	53	910	40	0.02	5	631	0.55	100	10	159
S001	2.58	720	1	0.96	57	1210	18	0.03	5	132	0.90	251	10	83
S003	1.80	1015	1	1.84	47	1270	18	0.03	5	195	0.78	162	10	101
S005	2.94	985	1	1.71	80	1250	21	0.02	5	224	0.82	218	10	96
S006	5.41	1010	1	1.30	345	1280	14	0.02	5	230	0.94	187	10	88
S007	1.22	619	1	1.21	32	1190	76	0.05	5	572	0.63	131	10	90
S008	2.43	1440	1	1.34	95	1540	134	0.03	5	668	0.95	205	10	111
S009	2.40	849	1	1.68	67	1100	22	0.03	5	321	0.83	151	10	70
S010	1.22	599	1	2.01	27	820	82	0.06	5	283	0.60	116	10	53
S011	3.15	577	1	1.45	45	1080	19	0.03	5	164	0.69	158	10	56
S017	2.65	1400	1	1.62	43	1730	13	0.01	5	215	0.98	254	10	113
S018	3.85	968	1	1.38	175	1050	16	0.02	5	252	0.75	176	10	89
S019	2.17	666	1	1.17	76	880	16	0.09	5	210	0.49	139	10	89
S020	6.15	807	1	1.02	386	680	9	0.06	5	204	0.31	97	10	69
S022	2.81	1275	1	1.21	94	870	24	0.06	5	281	0.52	142	10	224
S023	2.28	1035	2	1.48	36	1280	18	0.02	5	203	1.08	281	10	81
S041	2.45	516	1	0.70	90	460	14	0.03	5	270	0.37	90	10	100
T001	0.81	703	1	1.75	21	1260	17	0.06	5	352	0.36	71	10	65
T002	2.82	1185	1	1.29	100	1230	24	0.02	5	311	0.84	148	10	140
T005	0.83	439	1	1.56	22	1650	16	0.08	5	349	0.30	61	10	62
T006	0.96	676	1	1.48	27	610	18	0.01	5	282	0.45	113	10	86
T008	1.06	644	1	1.15	45	660	20	0.04	5	525	0.37	100	10	81
T010	0.74	775	1	1.85	22	730	20	0.07	5	598	0.23	49	10	67
T011	0.61	308	1	0.87	13	940	42	0.04	5	184	0.31	66	10	61
T012	1.37	718	1	1.02	54	1140	23	0.05	5	357	0.49	110	10	116
T017	0.56	1310	1	1.44	18	1030	17	0.03	5	173	0.37	122	10	60
T019	1.90	862	1	1.26	43	1130	10	0.04	5	197	0.73	177	10	68

Appendix 3b: Gleam Silt Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Gleam	K001	400245	6807195	0.5	9.12	90	600	2.5	2	2.47	0.5	13	47	26	4.50	1.74
Gleam	K003	400195	6807629	0.5	9.22	85	580	2.3	2	3.13	0.5	20	56	36	5.17	1.82
Gleam	K004	400216	6807649	0.5	9.24	18	570	2.6	2	3.30	0.5	20	62	28	5.47	1.83
Gleam	K005	400173	6807795	0.5	9.38	27	500	2.5	2	4.16	0.5	16	48	25	4.84	1.71
Gleam	K007	400095	6808038	0.5	10.40	15	520	2.1	2	6.18	0.5	29	126	39	7.65	1.53
Gleam	K009	400014	6808376	0.5	9.39	11	400	2.1	2	5.29	0.5	25	101	30	6.19	1.33
Gleam	K011	399858	6808755	0.5	9.44	25	470	2.2	2	4.52	0.5	23	93	35	6.21	1.53
Gleam	K013	399588	6809100	0.5	9.48	26	440	2.2	2	4.48	0.5	23	88	33	6.16	1.47
Gleam	K015	399331	6809514	0.5	8.82	21	390	2.1	2	4.55	0.5	19	83	27	5.72	1.26
Gleam	K016	399290	6809528	0.5	8.52	161	380	2.0	2	4.55	0.5	19	90	29	5.36	1.28
Gleam	K017	399131	6809687	0.5	9.28	58	450	2.1	2	4.62	0.5	21	91	34	5.86	1.45
Gleam	K019	398855	6810024	0.5	9.18	44	480	2.2	2	4.33	0.5	23	92	35	5.93	1.58
Gleam	K024	399657	6807573	0.5	9.12	54	630	3.0	2	2.98	0.5	30	95	51	7.01	2.05
Gleam	K025	399667	6807611	0.5	9.84	30	780	2.6	2	4.70	0.5	24	75	44	6.28	1.87

Appendix 3b: Gleam Silt Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
K001	1.34	779	1	1.82	37	1130	33	0.03	5	507	0.61	101	10	98
K003	1.58	800	1	1.69	50	1160	39	0.03	5	663	0.57	103	10	154
K004	1.68	1045	1	1.79	40	1440	29	0.02	5	622	0.75	147	10	92
K005	1.51	925	1	1.81	38	1140	30	0.02	5	800	0.62	101	10	113
K007	3.61	1245	1	1.90	73	1510	13	0.01	5	367	0.63	169	10	96
K009	2.80	1025	1	1.95	57	1540	18	0.02	5	432	0.76	181	10	88
K011	2.71	977	1	1.85	61	1500	16	0.02	5	439	0.79	173	10	95
K013	2.69	970	1	1.92	56	1390	19	0.02	5	477	0.84	173	10	95
K015	2.47	1005	1	1.86	54	1520	15	0.02	5	428	0.82	165	10	85
K016	2.50	914	1	1.75	70	1720	24	0.02	5	353	0.88	177	10	81
K017	2.50	991	1	1.84	56	1740	16	0.03	5	451	0.87	168	10	90
K019	2.60	952	1	1.77	66	1480	21	0.03	5	423	0.84	173	10	95
K024	2.65	1140	1	1.44	65	1270	8	0.02	5	192	0.78	276	10	139
K025	2.57	956	1	1.55	48	1370	12	0.02	5	316	0.78	200	10	108

Appendix 3c: Helen Property Rock Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Helen	M019A	396065	6808288	2.230	49.00	0.06	10000	10	0.5	565	19.6	0.5	95	79	46	9.48	0.01
Helen	M019B	396065	6808288	4.270	44.00	0.02	10000	10	0.5	1200	0.66	0.5	156	62	213	24.5	0.01
Helen	M019C	396065	6808288	5.030	58.00	0.02	10000	10	0.5	1145	18.4	0.5	14	112	270	5.5	0.01
Helen	M019D	396065	6808288	4.600	46.00	0.03	10000	10	0.5	1555	0.28	0.5	37	90	116	20	0.02
Helen	M019E	396065	6808288	4.170	46.00	0.02	10000	10	0.5	1170	0.63	0.6	57	122	303	15.65	0.01
Helen	M019F	396065	6808288	0.245	44.00	0.03	10000	10	0.5	185	3.95	0.5	9	179	26	3.74	0.01

Appendix 3c: Helen Property Rock Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Pt	Pd	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
M019A	0.01	200	8	0.01	6	30	733			5.52	39	31	0.01	2	10	36
M019B	0.01	5	7	0.01	1	10	761			10	108	4	0.01	1	10	29
M019C	0.01	7	11	0.01	5	20	258			2.33	17	16	0.01	1	10	7
M019D	0.01	5	8	0.01	9	30	543			8.96	77	1	0.01	1	10	7
M019E	0.01	6	11	0.01	5	20	364			6.31	58	1	0.01	3	10	7
M019F	0.01	44	18	0.01	6	10	898			1.86	12	8	0.01	5	10	6

Appendix 3c: Helen Property Year-2004 Rock Sample Results

Hinterland Metals Inc.

	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
SAMPLE No.	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
RM269513	1.545	26.8	0.09	>10000	<10	10	<0.5	499	2.85	9.5	3	108	5190	9.7	<10	<1	0.06	<10	0.04	10	5
RM269514	1.515	9.4	0.18	>10000	<10	10	<0.5	636	0.63	2.1	8	166	481	2.33	<10	<1	0.08	<10	0.07	50	6
RM269515	7.49	57.6	0.01	>10000	<10	<10	<0.5	2440	0.71	1.5	98	47	277	24.3	<10	<1	0.01	<10	<0.01	<5	6
RM269516	0.061	15.6	0.1	1020	<10	10	<0.5	1645	0.03	2.8	2	198	140	0.97	<10	<1	0.04	<10	0.02	55	9

Appendix 3c: Helen Property Year-2004 Rock Sample Results

Hinterland Metals Inc.

	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
SAMPLE	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Ti	U	V	W	Zn	
No.	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
RM269513	0.01	8	20	159	4.83	42	1	17	<0.01	<10	<10		3	<10	264
RM269514	0.01	10	30	208	0.54	8	1	18	<0.01	<10	<10		5	<10	45
RM269515	0.01	23	10	917	9.85	93	<1	1	<0.01	<10	<10		1	<10	20
RM269516	<0.01	18	30	502	0.04	<2	<1		4	<0.01	<10	<10	2	<10	287

Appendix 3c: Helen Property Soil Sample Results

Hinterland Metals Inc.

Property	SAMPLE	Easting	Northing	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
Helen	M032	396134	6808103	1.0	7.17	217	440	7.3	47	1.32	1.0	85	458	213	9.03	3.13
Helen	M033	396313	6808981	0.5	9.40	57	1360	6.0	2	3.12	0.5	32	52	17	5.70	2.43

Appendix 3c: Helen Property Soil Sample Results

Hinterland Metals Inc.

SAMPLE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
M032	4.31	1845	4	0.53	460	620	57	0.02	5	123	0.67	172	30	271
M033	1.96	2500	1	0.77	48	910	23	0.01	5	110	0.50	130	10	164



APPENDIX 4
ASSAY CERTIFICATES

BREAKAWAY



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
Date : 3-Oct-2003
Account: BREAK

CERTIFICATE VA03037725

Project :

P.O. No:

This report is for 67 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 24-Sep-2003.

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 - Rcd w/o BarCode
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-AA62	Ore grade Ag - four acid / AAS	AAS
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

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ALS Canada Ltd.
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 VAL-D'OR PQ J9P 2G3

Page #: 2 - A
 Total # of pages : 3 (A - B)
 Date : 3-Oct-2003
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CERTIFICATE OF ANALYSIS VA03037725

Sample Description	Method Analyte Units LOR	WZ1-21	Au-AA23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recrd Wt	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Cr	Cu	Fe	K
		kg	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	
		0.02	0.005	0.5	0.01	5	10	0.5	0.01	0.5	1	1	1	0.01	0.01	
K023 GLEAM PROPERTY		1.14	<0.005	<0.5	9.36	<5	1100	1.8	<2	7.78	<0.5	21	146	94	5.26	1.96
		1.24	<0.005	<0.5	1.74	<5	140	0.5	<2	18.15	<0.5	19	46	42	8.27	0.06
	K029	0.48	<0.005	<0.5	7.67	8	410	10.8	43	14.70	<0.5	13	80	12	3.10	1.19
	K046	2.80	<0.005	<0.5	1.44	<5	700	<0.5	<2	2.85	<0.5	14	337	180	7.19	0.14
K047	2.90	0.021	<0.5	0.57	<5	160	<0.5	<2	1.40	15.6	17	265	124	3.06	0.10	
K048 DAZZLE PROPERTY		1.74	0.009	<0.5	7.10	45	220	10.7	<2	0.04	<0.5	1	98	25	0.94	4.51
	K049	0.96	<0.005	<0.5	7.38	<5	170	6.2	<2	0.07	<0.5	2	89	22	0.71	4.10
	K050	0.90	0.011	<0.5	5.77	178	650	3.6	<2	0.02	<0.5	3	84	18	2.54	3.65
	K051	0.96	<0.005	<0.5	0.99	48	100	2.2	<2	0.01	0.5	4	165	4	0.83	0.41
	L018	0.88	<0.005	<0.5	11.25	<5	210	3.7	<2	2.07	<0.5	18	77	86	4.29	1.51
L020A GLEAM PROPERTY		0.88	<0.005	<0.5	3.09	<5	<10	<0.5	<2	24.1	<0.5	4	84	2	2.09	0.01
	L020B	0.48	<0.005	<0.5	3.35	<5	<10	<0.5	<2	21.6	<0.5	11	113	2	2.61	<0.01
	L021	0.52	<0.005	<0.5	4.28	<5	10	3.1	<2	9.74	<0.5	17	118	6	5.84	0.03
L040 DAZZLE PROPERTY		1.28	0.009	<0.5	5.90	28	180	5.4	<2	0.16	<0.5	1	106	21	1.04	3.55
	L041	1.08	<0.005	<0.5	0.72	155	30	9.4	<2	0.03	<0.5	2	218	4	0.95	0.25
L042 DAZZLE PROPERTY		0.50	<0.005	<0.5	4.05	28	330	46.5	<2	0.12	<0.5	1	187	3	0.85	2.96
	L043	0.62	<0.005	<0.5	1.37	36	120	8.7	<2	11.16	17.8	9	16	82	2.97	0.79
	L045	0.58	<0.005	0.7	6.59	238	70	14.3	<2	0.23	<0.5	2	89	3	0.71	3.54
	L046	1.18	<0.005	0.5	7.14	<5	60	9.1	8	0.28	<0.5	<1	81	2	0.50	3.27
	M027	0.78	<0.005	<0.5	3.18	<5	110	73.5	2	0.04	<0.5	1	186	18	0.97	2.87
	M028A	1.18	<0.005	<0.5	7.45	8380	370	4.3	<2	11.55	<0.5	15	83	89	3.85	2.37
M029B	1.42	<0.005	<0.5	7.70	21	250	6.2	3	14.35	<0.5	17	128	5	5.36	0.73	
M029 DAZZLE PROPERTY		1.28	<0.005	<0.5	2.89	164	90	3.7	2	8.70	<0.5	134	1105	284	7.69	2.29
	M030	1.08	0.036	1.1	5.53	3470	180	7.1	<2	15.65	<0.5	7	43	43	3.87	2.62
	M037	1.24	<0.005	<0.5	7.47	66	210	5.6	<2	0.30	<0.5	2	79	5	0.69	4.01
	M038	1.60	<0.005	<0.5	6.82	1895	320	4.6	<2	0.08	<0.5	<1	110	50	0.64	3.27
M045	1.58	<0.005	<0.5	1.11	105	200	0.5	<2	2.71	<0.5	50	1145	11	4.08	0.41	
M046	1.52	0.008	0.6	2.74	188	550	0.7	<2	14.50	<0.5	18	198	25	5.31	1.14	
M047	1.60	<0.005	<0.5	0.31	11	20	<0.5	<2	0.13	<0.5	81	1595	3	4.66	0.01	
M048	1.70	<0.005	<0.5	0.38	27	110	<0.5	<2	0.22	<0.5	60	1590	3	4.64	0.06	
M049	1.28	<0.005	<0.5	0.07	6	760	0.5	<2	2.55	<0.5	46	786	3	1.98	0.01	
M050A	1.54	0.006	<0.5	0.17	76	60	0.6	<2	0.10	<0.5	112	1325	11	4.00	0.05	
M050B	2.06	<0.005	<0.5	0.26	24	90	<0.5	<2	0.48	<0.5	55	1115	2	3.55	0.05	
M051	2.20	<0.005	<0.5	0.17	86	50	0.5	<2	5.50	<0.5	41	499	7	2.80	0.03	
M052	1.60	<0.005	<0.5	0.09	98	30	<0.5	<2	13.35	<0.5	11	160	6	1.83	0.02	
M053	1.76	<0.005	<0.5	0.14	285	20	<0.5	<2	0.14	<0.5	72	1130	5	3.88	0.03	
M054	2.16	<0.005	<0.5	0.24	58	120	<0.5	<2	0.27	<0.5	67	1155	2	2.39	0.01	
S001 GLEAM PROPERTY		0.58	<0.005	<0.5	2.18	16	40	<0.5	<2	>25	<0.5	5	21	4	1.14	0.19
	S006	0.18	<0.005	0.8	8.20	13	20	1.9	<2	8.03	<0.5	15	210	43	6.72	0.11
	S015	0.68	<0.005	<0.5	2.86	<5	1240	0.5	<2	11.20	<0.5	4	83	4	1.36	3.02



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Page #: 2 - B
 Total # of pages : 3 (A - B)
 Date : 3-Oct-2003
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CERTIFICATE OF ANALYSIS VA03037725

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-AA62
		Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Ti % 0.01	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1
K023 K027 <i>GLEAM PROPERTY</i>		2.15	787	1	0.87	38	540	24	0.66	<5	1385	0.40	94	<10	58	
		6.66	3350	<1	0.17	14	130	10	0.15	<5	180	0.17	88	<10	83	
		0.88	1130	<1	1.92	47	430	18	0.08	13	2450	0.37	68	10	310	
		0.77	>10000	5	0.05	98	1720	11	1.13	<5	148	0.07	137	<10	165	
K048 K047		0.14	1495	68	<0.01	87	1140	10	1.21	<5	86	0.03	74	<10	2990	
	<i>DAZZLE PROPERTY</i>		0.23	116	3	1.14	3	280	90	0.03	<5	18	0.03	2	10	40
			0.18	369	2	1.85	5	270	65	0.01	<5	37	0.06	2	<10	73
			0.29	78	5	0.11	7	150	24	0.02	<5	23	0.20	48	10	48
		0.08	428	5	0.01	5	60	20	<0.01	<5	5	0.02	4	10	52	
L018		1.59	608	<1	3.87	38	480	34	0.12	6	420	0.46	68	<10	56	
L020A L020B L021 <i>GLEAM PROPERTY</i>		0.50	908	1	0.01	18	300	17	<0.01	<5	447	0.18	31	10	22	
		0.77	1010	<1	0.01	24	340	11	<0.01	6	188	0.28	35	<10	28	
		3.10	965	1	0.13	27	420	34	0.03	9	782	0.30	131	<10	68	
L040 L041 <i>DAZZLE PROPERTY</i>		0.22	186	2	0.66	2	680	65	0.01	<5	11	0.05	3	10	37	
		0.09	259	4	<0.01	5	40	19	<0.01	<5	3	<0.01	2	<10	52	
L042 L043 L045 L046 M027 <i>DAZZLE PROPERTY</i>		0.07	114	5	0.08	6	610	49	<0.01	<5	10	0.01	4	<10	15	
		7.47	4210	1	0.05	10	40	8	0.35	5	165	0.03	13	980	2090	
		0.14	617	2	1.72	3	370	60	0.01	<5	9	0.03	6	20	36	
		0.09	214	<1	2.25	2	340	42	<0.01	<5	19	0.04	1	10	25	
		0.07	87	3	0.16	3	320	24	0.05	<5	19	0.01	3	10	19	
		0.93	1100	1	0.32	34	400	26	0.81	6	833	0.28	60	40	182	
M028A M028B M029 M030 M037 <i>DAZZLE PROPERTY</i>		1.34	1530	1	1.73	39	480	12	<0.01	7	1530	0.34	67	10	365	
		7.48	1520	1	0.05	1200	190	6	1.74	8	124	0.20	76	10	60	
		0.56	2610	<1	0.03	17	500	26	1.95	7	1215	0.13	50	<10	224	
		0.14	379	<1	0.10	12	460	38	0.03	<5	12	0.04	2	10	38	
M038		0.28	127	<1	0.02	5	170	51	0.10	<5	11	0.05	5	<10	16	
M045 M046 M047 M048		13.30	725	<1	0.01	858	10	2	0.17	<5	152	0.01	56	<10	29	
		5.86	1385	<1	0.02	105	900	8	<0.01	<5	833	0.38	68	<10	41	
		>15	547	<1	<0.01	1840	10	<2	<0.01	<5	13	<0.01	21	<10	27	
		>15	518	<1	<0.01	1035	10	<2	<0.01	11	16	0.01	19	<10	22	
M049 M050A M050B M051 M052		>15	455	<1	0.01	955	10	<2	0.02	16	134	<0.01	8	<10	14	
		>15	909	<1	0.01	1140	10	<2	0.03	32	19	<0.01	17	<10	34	
		>15	473	<1	0.01	1006	10	<2	<0.01	19	47	<0.01	13	<10	33	
		>15	435	2	0.01	895	10	<2	0.05	34	224	<0.01	14	<10	18	
		>15	296	3	0.01	359	20	<2	0.02	26	584	<0.01	12	<10	7	
		>15	720	2	<0.01	1070	<10	<2	<0.01	9	7	<0.01	20	<10	24	
M053 M054 <i>GLEAM PROPERTY</i>		>15	611	<1	<0.01	1660	<10	<2	0.01	22	55	<0.01	15	<10	26	
		0.82	2080	<1	1.00	17	150	8	0.01	<5	452	0.07	25	<10	14	
S008		2.52	715	<1	0.84	40	500	24	0.02	<5	1186	0.21	115	<10	98	
S015		0.32	1320	<1	0.12	6	940	10	<0.01	<5	228	0.17	39	<10	14	



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CERTIFICATE OF ANALYSIS VA03037725

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %
S044	DAZZLE PROPERTY	0.78	<0.005	<0.5	5.67	<5	220	10.2	<2	0.95	<0.5	1	124	3	0.89	3.03
S047		0.92	0.010	4.3	1.21	>10000	60	1.1	10	1.64	<0.5	4	177	8	2.10	0.54
S050		1.06	<0.005	<0.5	6.38	76	170	13.7	11	0.26	<0.5	1	48	3	0.50	3.43
S052		0.64	<0.005	<0.5	2.95	4460	580	3.7	<2	0.12	<0.5	4	125	41	1.38	1.32
S053		1.42	<0.005	0.6	8.49	30	90	1.6	<2	7.07	<0.5	11	133	19	3.88	0.44
S066		0.94	<0.005	<0.5	0.23	20	70	0.8	<2	4.64	<0.5	82	729	4	3.82	0.02
S067		1.42	0.012	<0.5	5.39	41	2470	0.6	<2	0.05	<0.5	1	78	3	0.91	3.26
S059		1.18	0.007	3.9	0.06	534	20	<0.5	<2	0.02	13.4	1	112	4	0.42	0.02
S060		2.04	0.008	0.6	0.16	605	20	0.6	<2	0.53	<0.5	87	1075	3	3.61	0.05
S062		1.20	0.141	>100	0.88	1680	90	<0.5	<2	4.71	4.1	3	194	246	3.07	0.26
S064		2.30	<0.005	<0.5	7.34	47	60	18.1	<2	0.26	<0.5	9	106	18	2.07	0.97
S085		1.68	0.202	<0.5	0.10	527	30	<0.5	<2	2.24	<0.5	25	581	4	1.79	0.05
T003	DAZZLE PROPERTY	1.90	<0.005	<0.5	7.44	39	70	16.0	<2	0.26	<0.5	11	82	20	2.14	0.98
T009		2.22	<0.005	<0.5	7.58	15	150	4.0	<2	0.20	<0.5	7	117	28	4.16	1.16
T022		0.92	<0.005	<0.5	6.33	14	560	3.7	63	1.08	<0.5	2	87	2	0.91	3.53
T023		0.86	<0.005	<0.5	4.60	5	70	5.9	<2	0.71	<0.5	2	122	4	0.88	1.02
T024		1.10	<0.005	<0.5	7.57	6	270	10.2	<2	0.81	<0.5	2	48	3	0.89	2.65
T025	1.84	0.008	<0.5	0.91	>10000	10	0.5	3	0.04	<0.5	77	228	16	6.34	0.06	
T026	1.58	<0.005	<0.5	6.65	268	130	3.3	<2	0.30	<0.5	5	121	21	3.45	0.72	
T027	2.26	<0.005	<0.5	8.32	123	650	3.1	<2	0.23	<0.5	8	122	34	4.75	2.45	
T028		1.82	<0.005	<0.5	3.05	8	190	0.8	<2	0.48	<0.5	13	157	57	2.10	0.71
T029		1.46	<0.005	<0.5	0.39	27	10	<0.5	<2	0.13	<0.5	24	180	141	1.18	0.06
T030	DAZZLE PROPERTY	0.96	<0.005	<0.5	7.13	18	490	10.8	<2	3.95	<0.5	10	97	77	4.80	4.02
T031		1.10	<0.005	<0.5	6.95	20	40	25.3	5	0.16	<0.5	<1	98	10	0.80	2.67
T032		2.28	0.028	<0.5	0.84	509	170	<0.5	<2	9.42	<0.5	39	680	2	2.62	0.27
T033		2.52	0.148	<0.5	0.44	138	90	<0.5	<2	2.79	<0.5	70	1525	16	5.18	0.05
T034		2.82	0.020	<0.5	0.57	73	100	0.6	<2	1.42	<0.5	73	1450	6	3.80	0.14



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ALS Canada Ltd.

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Phone: 604 984 0221 Fax: 604 984 0218

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

Page #: 3 - B
Total # of pages: 3 (A - B)
Date: 3-Oct-2003
Account: BREAK

CERTIFICATE OF ANALYSIS VA03037725

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-AA62
		Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Tl % 0.01	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1
S044 ↑ DAZZLE PROPERTY ↓		0.35	251	2	1.36	7	240	37	0.01	<5	59	0.03	5	<10	9	
		0.19	578	3	0.01	10	80	455	1.02	8	30	0.05	17	<10	81	
		0.11	115	<1	1.82	5	390	48	0.01	<5	13	0.02	2	<10	11	
		0.23	150	1	0.02	20	270	15	0.18	<5	12	0.13	93	10	73	
		1.88	608	<1	4.19	22	860	32	0.04	<5	894	0.45	83	<10	81	
S055		>15	511	<1	0.01	1300	10	<2	0.04	<5	58	<0.01	17	<10	18	
S057		0.11	28	<1	1.52	11	300	6	0.15	<5	86	0.07	14	<10	8	
S059		0.08	16	3	<0.01	14	20	584	0.07	<5	<1	<0.01	2	<10	841	
S060		14.35	418	<1	<0.01	1220	10	2	0.28	28	15	<0.01	11	<10	33	
S082		1.78	583	1	0.01	19	90	1330	0.14	93	158	0.05	27	<10	328	181
S084		0.65	348	<1	3.27	22	420	15	0.01	<5	45	0.12	22	<10	46	
S085		5.85	408	<1	0.01	605	10	3	0.08	<5	308	<0.01	9	<10	55	
T003		0.72	341	<1	3.26	22	440	12	0.01	<5	46	0.14	24	<10	48	
T009		1.14	231	<1	0.83	27	360	10	0.01	<5	93	0.29	67	<10	77	
T022		0.22	182	<1	1.31	5	480	56	<0.01	<5	101	0.08	9	<10	16	
T023	↑ DAZZLE PROPERTY ↓	0.27	158	2	1.51	7	150	19	0.01	<5	56	0.05	8	<10	17	
T024		0.22	118	<1	2.68	5	220	38	<0.01	<5	97	0.04	8	<10	23	
T025		0.17	43	1	0.08	16	130	6	2.71	7	15	0.03	10	<10	14	
T026		1.05	195	<1	0.90	16	640	13	0.02	<5	128	0.31	58	<10	77	
T027		1.08	404	<1	0.48	20	340	11	0.02	<5	93	0.38	81	<10	66	
T028		0.30	136	1	0.55	48	100	4	0.24	<5	47	0.13	26	<10	20	
T029		0.04	49	2	0.12	87	20	2	0.45	<5	12	0.02	4	<10	5	
T030	↑ DAZZLE PROPERTY ↓	0.84	843	<1	1.44	19	1780	21	1.19	<5	142	0.82	49	<10	48	
T031		0.04	2020	<1	2.88	8	490	22	0.01	<5	7	0.01	1	<10	51	
T032		5.38	1015	3	0.01	843	30	5	0.01	92	386	0.03	28	<10	33	
T033		14.05	728	1	0.01	1270	20	4	<0.01	105	192	0.01	27	<10	33	
T034		14.55	528	1	0.01	1505	20	2	0.01	51	80	0.01	31	<10	30	



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212 Brooksbank Avenue

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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

Date : 15-Sep-2003

Account: BREAK

CERTIFICATE VA03035288

Project :

P.O. No:

This report is for 83 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 10-Sep-2003.

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
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:



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Page #: 2 - A

Total # of pages : 4 (A - B)

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CERTIFICATE OF ANALYSIS VA03035288

Sample Description	Method Analyte Units LOR	WEL-21 Recvd Wt kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
A002		0.48	<0.5	8.40	928	1120	8.4	<2	0.59	<0.5	11	37	183	5.20	3.08	1.45
A005		0.36	<0.5	6.55	26	810	2.2	<2	1.57	<0.5	3	14	23	2.35	1.99	0.62
A008		0.40	<0.5	6.25	138	700	2.3	3	0.95	<0.5	6	29	21	3.50	2.29	0.86
A007		0.52	<0.5	8.01	5	220	3.1	<2	3.67	<0.5	28	36	27	4.78	0.86	1.08
A009		0.38	<0.5	7.55	97	720	2.2	<2	1.18	<0.5	7	35	28	3.21	1.93	0.86
A012		0.28	0.5	6.63	15	610	2.9	<2	2.15	<0.5	8	15	19	2.25	1.89	0.81
A014		0.52	<0.5	5.73	30	1080	1.9	<2	1.16	<0.5	7	30	21	2.74	1.69	0.81
A015		0.42	<0.5	5.74	18	990	1.4	<2	0.76	<0.5	5	20	16	2.26	1.66	0.53
A016		0.64	<0.5	7.13	17	470	3.3	<2	1.02	<0.5	9	23	24	3.28	2.55	0.70
A017		0.82	<0.5	7.77	7	560	2.7	<2	1.29	<0.5	12	42	19	3.50	2.41	1.04
A018		0.48	<0.5	6.83	<5	540	1.4	<2	1.41	<0.5	6	43	9	3.20	1.92	0.71
A019		0.40	<0.5	5.82	<5	520	1.3	<2	0.98	<0.5	4	37	9	2.80	1.85	0.49
A022	DAZZLE PROPERTY	0.56	<0.5	7.58	<5	530	2.7	<2	0.59	<0.5	7	20	17	2.60	3.11	0.60
A023		0.28	<0.5	7.72	<5	540	2.6	<2	1.12	<0.5	12	24	15	3.09	2.65	0.84
A024		0.34	<0.5	7.14	<5	590	2.4	<2	1.23	<0.5	12	33	16	3.87	2.28	1.12
A025		0.42	<0.5	8.81	<5	540	1.8	<2	1.01	<0.5	3	20	9	2.15	2.20	0.69
A026		0.34	<0.5	7.50	57	1570	1.9	<2	1.23	<0.5	20	48	95	4.67	1.83	1.15
A027		0.46	<0.5	6.59	12	1260	1.2	<2	2.09	<0.5	42	126	198	6.89	1.03	3.06
A029		0.54	<0.5	6.37	61	2220	2.2	<2	0.25	<0.5	8	25	31	2.52	2.48	0.58
A030		0.80	<0.5	6.45	48	2110	2.4	<2	0.49	<0.5	10	31	31	2.66	2.43	0.85
A031		0.44	<0.5	5.18	15	1340	1.1	<2	0.80	<0.5	5	20	11	1.61	1.41	0.45
A032		0.46	<0.5	8.98	39	1520	1.7	<2	1.28	<0.5	10	29	44	3.01	1.83	0.91
A033		0.48	<0.5	8.24	53	1740	2.3	<2	1.13	<0.5	11	52	80	3.19	1.84	1.35
A034		0.46	0.5	7.58	18	770	1.9	<2	2.14	<0.5	7	14	20	2.45	1.98	0.89
A035		0.54	0.5	7.85	174	790	5.2	<2	1.89	<0.5	12	36	40	3.85	2.37	1.28
A036		0.40	<0.5	8.19	172	650	5.8	<2	1.40	<0.5	10	31	25	3.42	2.89	1.12
A037		0.34	<0.5	7.36	170	600	4.4	<2	1.54	<0.5	10	22	40	3.29	2.03	0.98
A038		0.38	<0.5	7.34	33	590	5.4	<2	1.18	<0.5	4	13	9	1.68	2.76	0.54
L001		0.24	<0.5	7.32	<5	680	2.3	<2	1.53	<0.5	33	66	29	6.88	2.30	2.49
L002		0.38	<0.5	7.69	<5	600	2.3	<2	2.56	<0.5	24	103	30	6.09	2.10	2.41
L003		0.42	<0.5	7.50	59	420	1.8	<2	2.82	<0.5	35	283	60	8.81	1.28	5.01
L004	GLEAM PROPERTY	0.28	<0.5	7.08	9	510	1.6	<2	3.22	<0.5	33	144	41	5.91	1.26	3.49
L005		0.18	<0.5	5.12	<5	590	1.1	<2	1.67	<0.5	6	7	34	1.48	1.21	0.43
L006		0.38	<0.5	7.32	<5	420	1.5	<2	3.23	<0.5	26	83	24	7.10	1.28	2.70
L007		0.50	<0.5	8.19	<5	500	1.2	<2	4.07	<0.5	44	184	61	7.67	1.48	4.21
L008		0.50	<0.5	9.24	39	500	3.5	<2	1.63	<0.5	17	80	46	5.92	2.92	2.38
L009		0.50	<0.5	8.08	<5	520	1.9	<2	3.75	<0.5	21	116	39	5.85	1.71	3.44
L010		0.22	<0.5	7.54	<5	740	1.3	<2	1.81	<0.5	6	7	16	1.90	2.14	0.64
L011		0.40	<0.5	8.66	<5	510	1.6	<2	4.82	<0.5	43	144	138	7.77	1.68	3.87
L012		0.38	<0.5	7.34	<5	670	1.8	<2	2.45	<0.5	28	93	73	8.13	1.89	2.58



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CERTIFICATE OF ANALYSIS VA03035288

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn ppm 5	Mo ppm 1	Na % 0.01	NI ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Tl % 0.01	V ppm 1	W ppm 10	Zn ppm 2
A002		1045	2	0.88	28	840	51	0.08	<5	92	0.40	84	10	193
A005		738	5	1.86	11	750	17	0.05	<5	395	0.30	66	<10	99
A006		635	<1	1.22	9	1360	24	0.04	<5	237	0.47	96	<10	84
A007		1115	<1	0.49	46	1700	20	0.13	<5	843	0.41	72	10	124
A008		519	<1	1.56	22	1100	19	0.02	<5	295	0.62	98	<10	56
A012		512	<1	1.98	14	840	18	0.06	<5	455	0.29	66	10	52
A014		605	<1	1.16	21	460	22	0.02	<5	193	0.39	84	10	62
A016		538	<1	1.24	14	650	16	0.01	<5	228	0.29	77	10	43
A016		550	<1	1.00	28	910	32	0.05	<5	185	0.27	60	20	79
A017		602	<1	1.21	38	870	19	0.04	<5	258	0.40	74	10	69
A018		666	<1	1.00	19	550	20	0.01	<5	365	0.54	94	<10	41
A019		308	<1	1.06	13	490	18	0.02	<5	253	0.44	87	10	31
A022	DAZZLE PROPERTY	363	<1	1.22	30	770	24	0.01	<5	119	0.25	45	10	62
A023		407	<1	1.27	24	780	20	0.04	<5	272	0.31	60	10	93
A024		521	<1	1.09	28	760	16	0.07	<5	190	0.43	87	10	69
A025		353	<1	1.31	16	810	20	0.04	<5	237	0.34	69	10	42
A026		1805	3	1.01	54	940	37	0.04	<5	226	0.32	128	10	134
A027		1780	<1	0.73	92	1110	19	0.04	<5	190	0.70	209	<10	381
A029		929	<1	0.82	23	530	28	0.02	<5	58	0.20	67	10	72
A030		1100	<1	0.72	35	230	24	0.01	<5	72	0.23	67	10	70
A031		758	<1	1.22	13	790	12	0.03	<5	206	0.24	62	<10	36
A032		1420	<1	1.52	28	830	28	0.02	<5	316	0.28	80	10	81
A033		1010	<1	1.02	43	840	27	0.05	<5	133	0.41	101	10	101
A034		495	<1	2.36	18	620	17	0.05	<5	647	0.31	65	<10	68
A035		767	1	1.37	31	1180	33	0.07	<5	280	0.45	92	30	160
A036		511	<1	1.58	31	820	40	0.04	<5	257	0.47	87	10	101
A037		638	<1	1.44	32	620	34	0.04	<5	315	0.29	67	10	170
A038		312	<1	1.70	11	530	26	0.01	<5	290	0.35	49	10	48
L001		1980	<1	0.92	47	1060	11	0.06	<5	117	0.82	183	10	225
L002		913	1	1.12	51	890	11	0.03	<5	167	0.77	190	10	84
L003		895	2	1.00	224	830	18	0.03	<5	187	0.74	188	10	66
L004		918	1	1.03	116	1210	11	0.03	<5	239	0.68	190	<10	90
L005		323	1	1.60	11	690	8	0.06	<5	369	0.16	37	10	30
L006		1340	<1	1.06	36	1550	10	0.07	<5	199	0.88	257	10	67
L007	GLEAM PROPERTY	1190	<1	0.88	124	940	13	0.03	<5	248	0.80	216	<10	107
L008		793	<1	0.78	56	1200	25	0.03	<5	139	0.88	180	10	113
L009		783	<1	1.18	81	1800	32	0.01	<5	268	0.82	196	<10	90
L010		381	<1	2.61	5	340	14	0.01	<5	551	0.25	46	<10	51
L011		1340	<1	0.93	97	1110	17	0.06	<5	216	0.85	224	<10	94
L012		1125	1	0.93	64	1410	32	0.06	<5	189	0.87	205	<10	82



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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, PERREAU AV.
 VAL-D'OR PQ J9P 2G3

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 Total # of pages : 4 (A - B)
 Date : 15-Sep-2003
 Account: BREAK

CERTIFICATE OF ANALYSIS VA03035288

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt	Ag	Al	As	Ba	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mg
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	%
	LOB	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	0.01	0.01	0.01
L013 } GLEAM		0.44	<0.5	8.15	16	590	2.1	<2	3.04	<0.5	25	190	74	6.68	1.74	3.60	
L014 } PROPERTY		0.44	<0.5	8.16	<5	500	1.8	<2	2.76	<0.5	20	106	27	6.11	1.33	2.64	
L016 } GLEAM		0.44	<0.5	8.00	<5	440	1.8	<2	4.33	<0.5	27	126	38	6.23	1.51	3.11	
L018 } PROPERTY		0.36	<0.5	8.16	60	490	2.2	<2	2.50	<0.5	22	58	37	4.88	1.64	1.53	
M021 } DAZZLE		0.30	<0.5	8.68	87	700	3.8	<2	1.31	<0.5	31	83	130	5.17	1.59	2.43	
M026 } PROPERTY		0.34	0.7	8.21	161	720	4.2	<2	1.08	<0.5	22	81	184	6.09	3.31	2.50	
M032 } HELEN		0.38	1.0	7.17	217	440	7.3	47	1.32	1.0	85	458	213	9.03	3.13	4.31	
M033 } PROPERTY		0.40	<0.5	9.40	57	1360	6.0	<2	3.12	<0.5	32	52	17	5.70	2.43	1.96	
M034 } HELEN		0.32	1.1	7.98	201	430	3.0	<2	0.15	<0.5	5	11	82	6.24	4.53	0.49	
M036 } DAZZLE P		0.34	<0.5	10.85	49	460	20.5	3	0.80	<0.5	13	32	13	3.44	4.22	1.00	
S001 } GLEAM		0.34	<0.5	8.17	<5	570	1.8	<2	1.41	<0.5	26	149	22	7.08	1.77	2.58	
S003 } PROPERTY		0.26	<0.5	8.59	7	730	4.3	<2	2.18	<0.5	19	81	39	5.53	2.06	1.80	
S005 } GLEAM		0.50	<0.5	8.86	9	590	3.0	<2	3.45	<0.5	23	132	42	6.40	1.81	2.94	
S006 } PROPERTY		0.42	<0.5	7.19	40	310	1.3	<2	3.94	<0.5	44	330	130	6.78	0.93	5.41	
S007 } GLEAM		0.36	<0.5	7.40	87	500	1.6	<2	3.85	<0.5	10	61	16	4.06	1.42	1.22	
S008 } PROPERTY		0.40	0.5	8.27	70	420	1.5	<2	4.80	<0.5	51	100	86	7.80	1.22	2.43	
S009 } GLEAM		0.38	<0.5	8.26	<5	390	1.9	<2	3.53	<0.5	35	97	27	5.23	1.17	2.40	
S010 } PROPERTY		0.30	<0.5	7.96	<5	590	1.8	<2	2.15	<0.5	13	50	19	4.11	1.77	1.22	
S011 } GLEAM		0.38	<0.5	8.00	<5	440	1.9	<2	2.17	<0.5	18	91	14	5.76	1.71	3.15	
S017 } PROPERTY		0.46	<0.5	8.41	<5	650	2.3	<2	3.63	<0.5	28	98	38	7.23	1.65	2.65	
S018 } GLEAM		0.40	<0.5	7.40	8	430	1.5	<2	3.90	<0.5	30	212	30	5.70	1.12	3.85	
S019 } PROPERTY		0.36	<0.5	7.54	128	850	2.1	<2	2.13	<0.5	19	102	34	4.98	1.96	2.17	
S020 } GLEAM		0.34	<0.5	6.70	7	480	1.2	<2	3.22	<0.5	47	530	104	5.78	0.99	6.15	
S022 } PROPERTY		0.30	<0.5	8.64	11	1100	2.1	<2	3.33	3.9	33	118	71	6.00	2.17	2.81	
S023 } GLEAM		0.38	<0.5	7.64	19	490	1.8	<2	4.37	<0.5	22	75	24	6.45	1.90	2.28	
S029 } DAZZLE		0.40	<0.5	5.06	<5	1330	0.8	<2	0.68	<0.5	4	21	12	1.57	1.42	0.34	
S030 } PROPERTY		0.34	<0.5	4.97	35	1660	1.1	<2	0.59	<0.5	8	58	21	2.61	1.36	0.88	
S031 } GLEAM		0.36	<0.5	5.09	6	1440	1.0	<2	0.61	<0.5	3	29	6	1.00	1.60	0.40	
S032 } PROPERTY		0.32	<0.5	7.13	243	1800	2.8	<2	1.09	<0.5	20	60	71	4.58	1.97	1.24	
S034 } DAZZLE		0.24	<0.5	6.22	8	1200	1.3	<2	1.00	<0.5	6	12	12	1.69	1.97	0.46	
S037 } GLEAM		0.36	<0.5	6.55	167	1730	1.7	<2	1.28	<0.5	10	38	59	3.31	1.82	0.98	
S039 } PROPERTY		0.40	<0.5	7.85	8	990	2.1	<2	1.19	<0.5	17	50	22	5.87	3.03	0.99	
S041 } GLEAM		0.40	<0.5	10.85	8	1280	2.5	<2	2.01	<0.5	28	58	58	5.70	2.05	2.45	
T001 } PROPERTY		0.26	<0.5	6.51	40	700	2.5	<2	1.66	<0.5	11	29	21	2.83	1.74	0.81	
T002 } GLEAM		0.48	<0.5	9.17	49	580	8.0	<2	2.88	<0.5	29	158	49	6.81	1.77	2.82	
T005 } PROPERTY		0.26	<0.5	6.19	41	550	2.6	<2	1.43	<0.5	7	29	17	2.41	1.41	0.83	
T006 } GLEAM		0.42	<0.5	7.75	89	780	2.5	<2	1.22	<0.5	10	56	34	4.15	1.82	0.98	
T008 } PROPERTY		0.52	<0.5	7.41	6	740	2.0	<2	1.63	<0.5	14	56	22	4.17	1.64	1.06	
T010 } GLEAM		0.34	<0.5	7.25	<5	600	1.5	<2	2.26	<0.5	9	18	31	3.00	1.79	0.74	
T011 } PROPERTY		0.64	<0.5	8.67	17	510	2.6	3	0.61	<0.5	4	22	13	2.92	2.84	0.61	



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CERTIFICATE OF ANALYSIS VA03035288

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte Units LOR	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Tl % 0.01	V ppm 1	W ppm 10	Zn ppm 2
L013	GLEAM PROPERTY	975	<1	1.15	121	1910	22	0.03	<5	213	0.92	237	10	154
L014		833	<1	1.38	52	1240	16	0.04	<5	267	0.81	189	<10	76
L015		997	<1	1.50	64	1290	11	0.01	<5	260	1.04	200	<10	86
L016		782	<1	1.38	53	910	40	0.02	<5	631	0.55	100	<10	156
M021	DAZZLE	940	2	1.01	70	1140	31	0.04	<5	170	0.58	141	90	131
M028	PROPERTY	1455	3	0.75	98	1060	49	0.09	<5	129	0.69	156	10	287
M032	HULEN PROPERTY	1845	4	0.53	480	620	57	0.02	<5	123	0.67	172	30	271
M033		2500	<1	0.77	48	910	23	0.01	<5	110	0.50	130	10	184
M034		310	5	0.27	27	940	102	0.75	13	86	0.28	43	10	366
M036	DAZZLE	1190	<1	1.28	40	1200	63	0.02	<5	122	0.46	70	20	66
S001	GLEAM PROPERTY	720	<1	0.96	57	1210	18	0.03	<5	132	0.90	251	10	83
S003		1016	<1	1.84	47	1270	18	0.03	<5	196	0.78	162	<10	101
S005		985	<1	1.71	80	1250	21	0.02	<5	224	0.82	218	<10	96
S006		1010	<1	1.30	345	1280	14	0.02	<5	230	0.94	187	<10	86
S007		619	<1	1.21	32	1190	76	0.05	<5	572	0.63	131	10	90
S008		1440	<1	1.34	95	1540	134	0.03	<5	668	0.95	205	<10	111
S009		849	<1	1.88	67	1100	22	0.03	<5	321	0.83	151	<10	70
S010	599	<1	2.01	27	820	82	0.06	<5	283	0.60	118	10	53	
S011	577	<1	1.45	45	1080	19	0.03	<5	164	0.69	158	<10	56	
S017	1400	<1	1.62	43	1730	13	0.01	<5	215	0.98	254	<10	113	
S018	966	<1	1.38	175	1050	18	0.02	<5	252	0.75	176	10	89	
S019	666	<1	1.17	76	880	18	0.09	<5	210	0.49	139	<10	89	
S020	807	<1	1.02	386	680	8	0.06	<5	204	0.31	97	10	69	
S022	1276	1	1.21	94	870	24	0.06	<5	281	0.52	142	10	224	
S023	1036	2	1.48	36	1280	18	0.02	<5	203	1.06	261	10	81	
S029	DAZZLE PROPERTY	1215	1	1.50	9	420	15	0.01	<5	183	0.29	67	10	26
S030		822	1	0.73	21	1220	11	0.02	<5	90	0.38	122	10	50
S031		477	<1	1.12	11	370	11	0.01	<5	142	0.43	68	10	22
S032		2580	6	0.92	62	1560	34	0.08	<5	143	0.33	112	10	282
S034	805	<1	1.72	8	510	14	0.03	<5	285	0.21	53	10	38	
S037	1190	1	1.28	40	860	20	0.06	<5	209	0.32	96	<10	118	
S039	1255	1	1.04	30	1570	22	0.06	<5	174	0.63	202	10	57	
S041	518	<1	0.70	90	480	14	0.03	<5	270	0.37	90	10	100	
T001	703	<1	1.75	21	1260	17	0.06	<5	352	0.36	71	10	65	
T002	1185	<1	1.29	100	1230	24	0.02	<5	311	0.84	148	10	140	
T005	GLEAM PROPERTY	439	<1	1.56	22	1650	18	0.08	<5	349	0.30	81	10	82
T006		676	1	1.48	27	610	18	0.01	<5	282	0.45	113	10	86
T008		844	<1	1.15	45	660	20	0.04	<5	525	0.37	100	10	81
T010		775	<1	1.85	22	730	20	0.07	<5	598	0.23	49	<10	67
T011		308	<1	0.87	13	940	42	0.04	<5	184	0.31	66	10	61



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CERTIFICATE OF ANALYSIS VA03035288

Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
Analyte	Recvd Wt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%
LOR	0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	0.01	0.01
Sample Description															
T012 } <i>Gleam</i>	0.54	<0.5	9.99	21	680	2.9	<2	1.19	<0.5	18	50	32	5.41	2.56	1.37
T017 } <i>Property</i>	0.42	<0.5	7.84	10	2420	2.0	<2	0.53	<0.5	6	29	44	3.16	2.19	0.56
T019 }	0.50	<0.5	7.20	5	530	1.6	<2	1.98	<0.5	18	81	18	6.17	1.40	1.90



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CERTIFICATE OF ANALYSIS VA03035288

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn ppm 5	Mo ppm 1	Na % 0.01	NI ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Tl % 0.01	V ppm 1	W ppm 10	Zn ppm 2
T012 } GLEAFI		718	<1	1.02	54	1140	23	0.05	<5	357	0.49	110	10	118
T017 } PROPERTY		1310	<1	1.44	18	1030	17	0.03	<5	173	0.37	122	10	60
T019 }		862	<1	1.28	43	1130	10	0.04	<5	187	0.73	177	10	88



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

Page # . 1
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Account: BREAK

CERTIFICATE VA03035287

Project :

P.O. No:

This report is for 32 SEDIMENT samples submitted to our lab in North Vancouver, BC, Canada on 10-Sep-2003.

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 - Rod w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
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:



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CERTIFICATE OF ANALYSIS VA03035287

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt kg	Ag ppm	Al %	As ppm	Ba ppm	Ba ppm	Bi ppm	Ca %	Ca ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	0.01	0.01	0.01
K001	GLEAM PROPERTY	0.46	<0.5	9.12	90	800	2.5	<2	2.47	<0.5	13	47	26	4.50	1.74	1.34
K003		0.32	<0.5	9.22	85	580	2.3	<2	3.13	<0.5	20	56	36	5.17	1.82	1.58
K004		0.44	<0.5	9.24	18	570	2.6	<2	3.30	<0.5	20	62	28	5.47	1.83	1.68
K006		0.42	<0.5	9.38	27	500	2.5	<2	4.18	<0.5	18	48	25	4.84	1.71	1.51
K007		0.46	<0.5	10.40	15	620	2.1	<2	6.18	<0.5	29	126	39	7.65	1.63	3.61
K009		0.44	<0.5	9.39	11	400	2.1	<2	5.29	<0.5	25	101	30	8.19	1.33	2.80
K011		0.48	<0.5	9.44	25	470	2.2	<2	4.52	<0.5	23	93	35	8.21	1.53	2.71
K013	0.48	<0.5	9.48	26	440	2.2	<2	4.48	<0.5	23	88	33	6.16	1.47	2.69	
K015	0.44	<0.5	8.82	21	390	2.1	<2	4.55	<0.5	19	83	27	5.72	1.26	2.47	
K016	0.48	<0.5	8.52	161	380	2.0	<2	4.55	<0.5	19	90	29	5.36	1.28	2.60	
K017	0.44	<0.5	9.28	58	450	2.1	<2	4.62	<0.5	21	91	34	5.86	1.45	2.50	
K018	0.44	<0.5	9.18	44	480	2.2	<2	4.33	<0.5	23	92	35	5.93	1.58	2.90	
K022	0.48	<0.5	8.90	49	480	2.1	<2	4.17	<0.5	23	88	34	5.81	1.51	2.54	
K024	0.34	<0.5	9.12	64	630	3.0	<2	2.98	<0.5	30	96	51	7.01	2.06	2.65	
K025	0.44	<0.5	9.84	30	780	2.6	<2	4.70	<0.5	24	75	44	6.28	1.87	2.57	
K030	0.48	<0.5	9.48	374	830	9.6	3	1.46	<0.5	23	44	78	5.18	2.89	1.79	
K033	0.50	<0.5	15.70	11	360	11.7	<2	0.28	<0.5	3	5	4	2.65	5.55	0.58	
K034	0.44	<0.5	12.05	581	670	15.3	4	0.73	<0.5	13	23	83	4.64	3.92	1.33	
K036	0.40	<0.5	11.75	636	600	12.9	3	0.82	0.7	16	31	68	4.70	3.91	1.73	
K038	0.36	<0.5	8.67	147	600	8.7	4	0.63	0.7	4	5	14	1.99	3.66	0.43	
K040	0.46	<0.5	8.31	109	550	12.8	<2	0.71	<0.5	4	6	9	1.84	3.35	0.48	
K042	0.42	<0.5	8.07	71	800	8.2	22	0.59	<0.5	2	5	6	1.57	3.57	0.38	
K044	0.60	<0.5	8.19	61	610	8.2	<2	0.57	<0.5	2	4	7	1.61	3.66	0.37	
L023	0.50	<0.5	7.22	128	980	3.1	<2	1.82	2.1	16	43	79	4.25	2.15	1.72	
L025	0.42	<0.5	6.61	43	1560	1.7	<2	1.03	<0.5	10	55	37	3.52	1.67	1.12	
L026	0.22	0.5	5.96	43	950	1.5	<2	2.05	<0.5	7	22	34	2.31	1.19	0.59	
L028	0.36	<0.5	6.15	68	1980	1.6	<2	1.47	<0.5	16	59	68	3.70	1.53	1.33	
L030	0.44	<0.5	5.70	78	1770	1.5	<2	1.21	<0.5	12	62	51	3.33	1.37	1.11	
L031	0.44	<0.5	5.20	87	1520	1.7	<2	1.41	0.6	13	50	51	3.07	1.57	1.14	
L032	0.40	0.5	9.51	126	2180	2.9	<2	1.08	<0.5	21	65	110	5.11	2.73	1.52	
L033	0.34	<0.5	8.54	114	1880	2.6	<2	1.13	<0.5	20	56	93	4.43	2.35	1.43	
L038	0.38	<0.5	8.28	83	2540	1.9	<2	1.29	<0.5	17	55	79	3.87	1.85	1.33	
L039	0.38	<0.5	8.28	83	2540	1.9	<2	1.29	<0.5	17	55	79	3.87	1.85	1.33	



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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, PERREAU AV.
 VAL-D'OR PQ J9P 2G3

Page #: 2 - B
 Total # of pages : 2 (A - B)
 Date : 16-Sep-2003
 Account: BREAK

CERTIFICATE OF ANALYSIS VA03035287

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Se ppm 1	Ti % 0.01	V ppm 1	W ppm 10	Zn ppm 2
<001		779	<1	1.82	37	1130	33	0.03	<5	507	0.61	101	<10	98
<003		800	<1	1.69	50	1160	39	0.03	<5	663	0.57	103	<10	154
<004		1045	<1	1.79	40	1440	29	0.02	<5	822	0.75	147	<10	92
<005		925	<1	1.81	38	1140	30	0.02	<5	800	0.82	101	<10	113
<007		1245	<1	1.90	73	1510	13	0.01	<5	387	0.63	169	<10	98
K008	GLEAM PROPERTY	1025	<1	1.85	57	1540	18	0.02	<5	432	0.76	181	<10	88
K011		977	<1	1.85	61	1500	18	0.02	<5	439	0.79	173	<10	95
K013		970	<1	1.92	56	1390	19	0.02	<5	477	0.84	173	<10	95
K015		1006	<1	1.88	54	1620	15	0.02	<5	428	0.82	165	<10	85
K016		914	<1	1.75	70	1720	24	0.02	<5	353	0.88	177	<10	81
K017		991	<1	1.84	56	1740	16	0.03	<5	451	0.87	168	10	90
K019		952	<1	1.77	66	1480	21	0.03	<5	423	0.84	173	<10	95
K022		948	<1	1.75	64	1390	17	0.03	<5	412	0.78	160	<10	95
K024	GLEAM PROPERTY	1140	<1	1.44	65	1270	8	0.02	<5	192	0.78	276	<10	139
K025		958	<1	1.55	48	1370	12	0.02	<5	316	0.78	200	<10	108
K030		1510	2	0.87	47	1120	71	0.08	<5	192	0.45	108	<10	387
K033	DAZZLE PROPERTY	538	<1	0.12	2	1520	139	0.02	<5	98	0.41	57	10	91
K034		1240	2	1.23	27	1050	104	0.06	<5	146	0.38	81	<10	316
K036		1476	4	0.41	25	1130	85	0.04	<5	114	0.49	98	20	297
K038		742	<1	1.74	6	880	101	0.03	<5	180	0.20	30	<10	153
K040		493	<1	1.83	8	870	54	0.02	<5	209	0.21	36	10	77
K042		552	<1	1.91	6	850	52	0.01	<5	198	0.18	28	10	67
K044		503	<1	1.96	6	740	50	0.01	<5	198	0.18	27	<10	63
L023		1640	<1	1.43	35	1220	32	0.07	<5	154	0.63	110	<10	682
L025		860	<1	1.18	45	1150	18	0.02	<5	146	0.42	118	<10	79
L026		1730	3	1.22	24	4650	12	0.20	<5	316	0.19	81	<10	96
L028		1520	<1	0.90	58	1540	21	0.06	<5	144	0.40	123	<10	164
L030		1265	10	0.84	48	1460	20	0.07	<5	134	0.34	105	<10	150
L031		1315	1	0.81	45	1270	22	0.07	<5	118	0.39	89	<10	171
L032		1610	2	0.85	59	1200	40	0.05	<5	178	0.38	147	<10	184
L033	DAZZLE PROPERTY	1505	1	0.69	51	1130	38	0.11	<5	157	0.31	120	10	132
L036		2130	<1	0.73	52	1550	20	0.04	<5	120	0.39	118	<10	110



LABORATOIRE D'ANALYSE BOURLAMAQUE L BOURLAMAQUE ASSAY LABORATORIES LTD

Workaway Exploration Management Inc.

73-76

ECHANTILLONS Rock
SAMPLES

REÇU DE Mack Saketo
RECEIVED FROM

CERTIFICAT D'ANALYSES CERTIFICATE OF ANALYSIS

N° 79586

September 9,

VAL D'OR (QUÉBEC)

20

ANALYSES
ASSAYS

10 Au Py-SAA, 10 Ag
5 Au Py-Cr.

Sample No.	Au ppb	Au ppm	Ag g/t	
NO19A	1000	2.22	49	<i>Helen Property</i>
NO19B	1000	4.27	32	
NO19C	1000	5.02	32	
NO19D	1000	4.60	46	
NO19E	1000	4.17	46	
NO19F	245		44	
NO20	12		55	
NO20S	5		1	<i>GLEAM PROPERTY</i>
NO20C	5		0	
NO04	41		1	<i>DAZZLE</i>

Sample No.	Au ppb	Ag g/t
NO04 Dup.	42	1

ada



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Rapport Lab Geochimie
Geochemical Lab Report

RAPPORT: C03-64182.0 (COMPLET)

RÉFÉRENCE: P.O. #307524

CLIENT: LABORATOIRE D'ANALYSES BOURLAMAQUE LTEE

SOUIS PAR:

PROJET: AUCUN

DATE RECU: 05-SEP-03

DATE DE L'IMPRESSION: 29-SEP-03

DATE APPROUVÉ	COMMANDE	ÉLÉMENT	NOMBRE D'ANALYSES	LIMITE INFÉRIEURE DE DETECTION	MÉTHODE	TYPES D'ÉCHANTILLONS	NOMBRE	FRACTION UTILISÉE	NOMBRE	PRÉP. DE L'ÉCHAN.	NC
				EXTRACTION		PULPE PREPAREE	10	TEL QUE RECU	10	TEL QUE RECU	
030929	1 AuGrav	Au - FA10/11	10	0.07 G/T	PYRO ANALYSE	GRAVIMETRIE					
030929	2 Ag	AG-ICP61	10	0.5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	3 Al	AL-ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	4 As	AS-ICP61	10	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	5 Ba	BA-ICP61	10	10 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	6 Be	BE-ICP61	10	0.5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	7 Bi	BI-ICP61	10	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	8 Ca	CA-ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	9 Cd	CD-ICP61	10	0.5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	10 Co	CO-ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	11 Cr	CR-ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	12 Cu	CU-ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	13 Fe	FE-ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	14 K	K -ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	15 Hg	HG-ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	16 Hn	HN-ICP61	10	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	17 Mo	MO-ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	18 Na	NA-ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	19 Ni	NI-ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	20 P	P -ICP61	10	10 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	21 Pb	PB-ICP61	10	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	22 S	S -ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	23 Sb	SB-ICP61	10	5 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	24 Sr	SR-ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	25 Ti	TI-ICP61	10	0.01 PCT	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	26 V	V -ICP61	10	1 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	27 W	W -ICP61	10	10 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	28 Zn	ZN-ICP61	10	2 PPM	HF-HNO3-HClO4-HCL	INDUC. COUP. PLASMA					
030929	29 Ag	Ag - GA01	10	0.1 PPM	HCL:HNO3 (3:1)	ABSORPTION ATOMIQUE					

COPIES DU RAPPORT À: 148 Ave Parreault

FACTURE À: 148 Ave Parreault

Ce rapport ne doit être reproduit que dans sa totalité. Les données présentées dans ce rapport sont exprimées sur base sèche sauf indication contraire et ne concernent que les échantillons reçus, identifiés par le numéro d'échantillon.



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Rapport Lab Geochimie Geochemical Lab Report

CLIENT : LABORATOIRE D'ANALYSES BOURLAMBQUE LYEE
RAPPORT: C03-64182.0 (COMPLET)

DATE REQU : 05-SEP-03

DATE DE L'IMPRESSION: 29-SEP-03

PROJET: AUCLIN

PAGE 1 DE 3

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT	Au		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn	Ag
		G/T	PPM																												
LO20B	GLEAM	0.14	0.6	8.21		41	30	1.6	3	8.77	<0.5	44	124	52	4.96	0.12	1.77	593	9	3.34	79	710	130	0.52	<5	848	0.40	64	<10	85	<0.1
LO20C	PROPERTY	0.21	0.5	9.24		26	20	0.8	16	2.83	2.4	9	58	22	2.29	0.09	0.76	278	6	5.94	18	590	8470	0.17	<5	412	0.14	32	<10	30	9.7
NO19A	HELEN PROPERTY	1.92	27.3	0.06	>10000	<10	<5	565	19.60	<0.5	95	79	46	9.48	0.01	<0.01	200	8	0.01	6	30	733	5.52	39	31	<0.01	2	<10	36	28.7	
NO19B		3.22	42.9	0.02	>10000	<10	<5	1200	0.66	<0.5	156	62	213	24.50	<0.01	<0.01	<5	7	<0.01	1	10	761	>10.00	108	4	<0.01	1	<10	29	45.5	
NO19C		4.49	30.0	0.02	>10000	<10	<5	1145	18.40	<0.5	14	112	270	5.50	0.01	<0.01	7	11	<0.01	5	20	258	2.33	17	16	<0.01	1	<10	7	31.6	
NO19D		2.09	43.5	0.03	>10000	10	<5	1555	0.28	<0.5	37	90	116	20.00	0.02	<0.01	<5	8	<0.01	9	30	543	8.96	77	<1	<0.01	1	<10	7	48.5	
NO19E	3.53	43.6	0.02	>10000	10	<5	1170	0.63	0.6	57	122	303	15.65	<0.01	<0.01	6	11	<0.01	5	20	364	6.31	58	1	<0.01	3	<10	7	43.4		
NO19F	0.21	26.3	0.03	>10000	<10	<5	185	3.85	<0.5	9	179	26	3.74	<0.01	<0.01	44	16	<0.01	6	10	898	1.84	12	6	<0.01	5	<10	6	27.0		
NO44	0.27	56.3	4.93	210	440	1.4	<2	0.31	>500.0	5	101	27	0.86	1.56	0.21	21	10	1.39	4	1410	>10000	3.22	57	27	0.13	16	<10	>10000	55.1		
TO04	DAZZLE	0.14	3.2	1.08	>10000	40	1.4	13	0.29	0.8	15	166	2	13.10	0.12	0.10	74	15	0.32	28	130	110	6.88	42	49	0.09	13	70	11	3.0	



**ALS Chemex
Chimitec**

Rapport Lab Geochimie Geochemical Lab Report

CLIENT : LABORATOIRE D'ANALYSES BOURLAMAQUE LTEE
RAPPORT: C03-64182.0 (COMPLET)

DATE RECU : 05-SEP-03

DATE DE L'IMPRESSION: 29-SEP-03

PROJET: AULMIN

PAGE 3 DE 3

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT	Au	Grav	Ag	Al	As	Ba	Be	Bi	Ce	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Nb	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn	Ag	
		G/T	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PPM	PPM	PCT	PPM	PPM	PPM	PCT	PPM	PPM	PCT	PPM	PPM	PPM	PPM
L0208		0.14		0.6	8.21		41	30	1.6	3	5.77	<0.5	44	124	52	4.96	0.12	1.77	593	9	3.34	79	710	130	0.52	<5	845	0.40	64	<10	85	<0.1
Duplicata																																<0.1

GLEAM
PROPERTY