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ASSESSMENT REPORT

describing

GEOLOGY, MINERALIZATION AND GEOCHEMISTRY

on the

FOUR CORNERS PROPERTY

4C 1-122 YC22680-YC22801
4C 271-308 YC22856-YC22893
4C 355-438 YC22922-YC22997

NTS 105A/13, 105B/16, 105G/1 and 105H/4
Latitude 61°00'N Longitude 130°00'W

in the

Watson Lake Mining District
Yukon Territory

prepared by

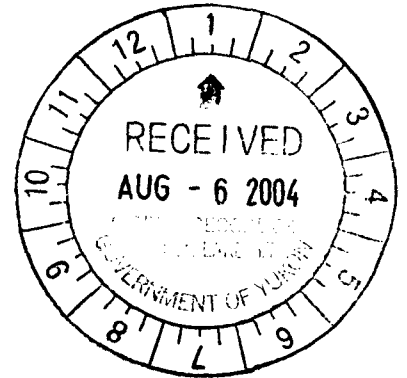
Archer, Cathro & Associates (1981) Limited

for

FIRESTONE VENTURES INC.

by

William A. Wengzynowski, P.Eng.
October 2003



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 \$ 103,700.00.

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

Costs associated with this report have been
approved in the amount of \$ 103,700.00
for assessment credit under Certificate of
Work No. QL25659

[Signature]

Mining Recorder
Watson Lake Mining District

TABLE OF CONTENTS

	<u>PAGE</u>
SUMMARY	1
INTRODUCTION	3
PROPERTY LOCATION AND CLAIM DATA	3
ACCESS AND GEOMORPHOLOGY	3
PROPERTY HISTORY	4
GEOLOGICAL SETTING	5
Regional Geology	5
Property Geology	6
DEPOSIT TYPES	7
2003 EXPLORATION	8
Mineralization	9
Geochemistry	9
INTERPRETATION AND CONCLUSIONS	11
RECOMMENDATIONS	11
REFERENCES	13

APPENDICES

- I. AUTHOR'S STATEMENT OF QUALIFICATIONS
- II. CERTIFICATES OF ANALYSIS

LIST OF FIGURES

<u>NO.</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
1	Property Location	Following Page 3
2	Claim Location	Following Page 3
3	Historical Data	Following Page 4
4	Regional Geology	Following Page 5
5	Stratigraphy	Following Page 5
6	Property Geology	In Pocket
7	Emerald Formation Model	Following Page 8
8	Silt Sample Locations - West Block	Following Page 9
9.	Be Silt Geochemistry - West Block	Following Page 9
10	Cr Silt Geochemistry - West Block	Following Page 9
11	Soil Sample Location - West Block - West Ridge	In Pocket
12	Be Soil Geochemistry - West Block - West Ridge	In Pocket
13	Cr Soil Geochemistry - West Block - West Ridge	In Pocket
14	Soil Sample Locations - West Block - Central Ridge	Following Page 10
15	Be Soil Geochemistry - West Block - Central Ridge	Following Page 10
16	Cr Soil Geochemistry - West Block - Central Ridge	Following Page 10
17	Soil Sample Locations - West Block - East Ridge	Following Page 10
18	Be Soil Geochemistry - West Block - East Ridge	Following Page 10
19	Cr Soil Geochemistry - West Block - East Ridge	Following Page 10
20	Au Geochemistry - West Block	Following Page 10

SUMMARY

The Four Corners property consists of two claim blocks totalling 445 mineral claims located about 38 km west of the Robert Campbell Highway in southeastern Yukon. The claims were staked under the Yukon Quartz Mining Act and cover approximately 9000 hectares. The Four Corners property is owned by Strategic Metals Ltd. and was under option to Firestone Ventures Inc. during the 2003 field season. The option was terminated in 2004.

The geology in the area of the Four Corners property consists of Devonian metavolcanic and metasedimentary rocks that are intruded by Devonian ultramafic sills and a Cretaceous granitic stock. The main exploration target is emerald, similar to showings at the Regal Ridge emerald prospect located 40 km to the northwest. At the Regal Ridge prospect, emerald occurs with tourmaline within and alongside quartz veins that cut mafic metavolcanic schists and ultramafic rocks. Fluids responsible for vein formation are related to a nearby granitic stock. The host rocks and granitic stock at Regal Ridge are correlated to units on the Four Corners property.

Exploration at the Four Corners property is based on a published model that has been developed from studies of the Regal Ridge prospect. Emerald is a gem variety of the beryllium bearing mineral beryl which has characteristic green colouration because of chromium impurities. The model for emerald formation involves hot, volatile rich fluids migrating upward and outward from a granitic intrusion to produce veins in wallrocks of mafic and ultramafic composition. Alteration of the chromium rich wallrocks by the beryllium bearing fluids brings the two key components together and thus permits crystallization of emeralds in open spaces along the vein fissures.

Work conducted at the Four Corners property in 2003 on behalf of Firestone included claim surveys, geological mapping, soil and stream sediment sampling, pan sampling and prospecting. It led to the discovery of three mineral occurrences, several unexplained soil geochemical anomalies and widespread alteration, veining and dyking similar to that associated with emeralds at Regal Ridge.

Although no emeralds have been found at the Four Corners property, prospecting in 2003 located blue beryl in pegmatite dyke talus. In addition, a number of areas were outlined where anomalous concentrations of beryllium occur in soil. The beryl showing and beryllium anomalies are located northeast of the granite stock in areas where mafic and ultramafic units exhibit abundant pegmatite dykes, quartz veins and tourmalinization. Outcrop is rare in these areas, making prospecting difficult. Work in similar terrain at Regal Ridge has shown that muscovite rich, emerald bearing rocks usually weather more rapidly than the surrounding units and therefore do not usually form prospectable talus or felsenmeer.

Two zones of silicification accompanied by gold were also discovered in 2003. One zone consists of white quartz and green chalcedony in an 8 m wide talus train surrounded by mafic metavolcanics. A sample comprised of chips from two, 70 cm diameter boulders of green chalcedony returned 4.28 g/t gold. Geochemically anomalous gold values were also obtained from nearby soil samples and another chip sample taken across part of the silicified talus train. The other gold zone is located about 1000 m to the north-northeast. It consists of a 3 to 5 m

thick, silicified, stratabound horizon within the mafic metavolcanics and contains disseminated arsenopyrite and pyrite. It was not sampled but a soil sample collected immediately uphill returned a strongly anomalous value of 591 ppb gold.

INTRODUCTION

The Four Corners property is a mineral property located in the Finlayson Lake District of southeastern Yukon Territory. It is owned by Strategic Metals Ltd. and was under option to Firestone Ventures Inc. The option was terminated in 2004. The author was retained by Firestone to supervise a 2003 exploration program focussed on emerald potential, interpret results from that program and prepare an appropriate work program. This report describes the results of the 2003 program for work completed on the west claim block.

In 2003, the author supervised work at the Four Corners property and other nearby emerald prospects on behalf of Firestone and conducted reconnaissance exploration at selected gem targets in various parts of Yukon on behalf of True North Gems Inc. the owner of the Regal Ridge emerald prospect. Work at the Four Corners property was done in two stages: June 9 to July 9 and July 28 to August 13. It consisted of geological mapping, prospecting, silt and soil geochemical sampling, pan sampling and claim surveys. This work was performed by a four person crew from fly camps on the property. The author's Statement of Qualifications appears in Appendix 1.

PROPERTY LOCATION AND CLAIM DATA

The Four Corners west claim block consists of 244 mineral claims located in southeastern Yukon at approximate latitude 61°00' north and longitude 130°00' west near the junction of National Topographic System (NTS) map sheets 105A/13, 105B/16, 105G/1 and 105H/4. The general property location is shown on Figure 1. Figure 2 displays the location of the 4C claims relative to nearby mineral claims owned by other parties.

The 4C claims are registered with the Watson Lake Mining Recorder in the name of Archer, Cathro & Associates (1981) which holds them in trust for Strategic. Claim registration information is summarized as follows.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
4C 1-122	YC22680-YC22801	March 13, 2009
4C 271-308	YC22856-YC22893	March 13, 2009
4C 355-404	YC22922-YC22971	March 13, 2009
4C 405-412	YC23110-YC23117	March 13, 2009
4C 413-438	YC22972-YC22997	March 13, 2009

*Expiry dates include 2003 work which has been filed for assessment credit but not yet accepted.

ACCESS AND GEOMORPHOLOGY

The Four Corners property lies about 38 km west of the Robert Campbell Highway and 115 km by air northwest of the town of Watson Lake, where the closest year round helicopter base is located. In summer 2003, most camp moves and supply runs were done with a helicopter operating from a temporary base at Finlayson Lake, about 80 km north of the property.

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FIGURE 1

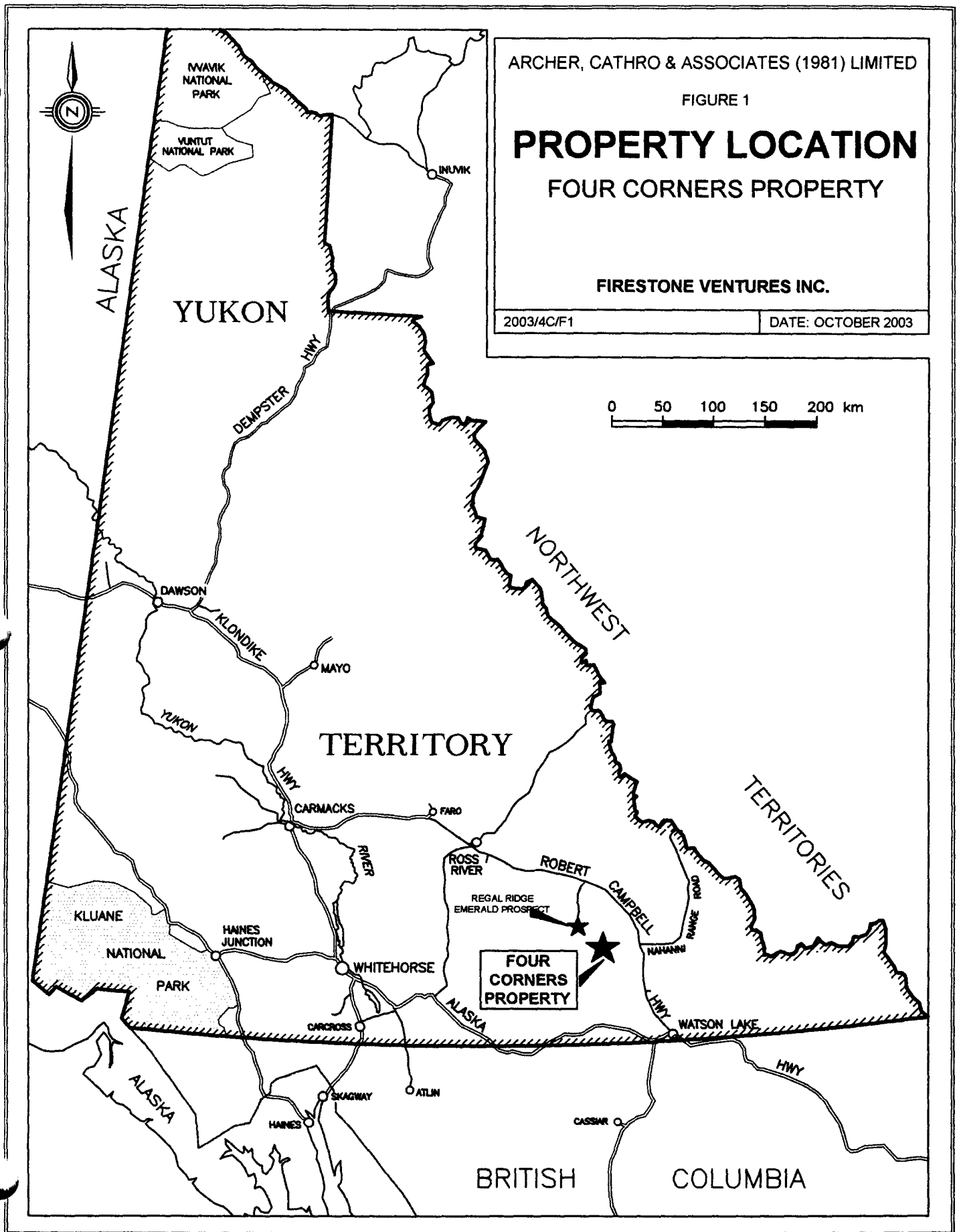
PROPERTY LOCATION

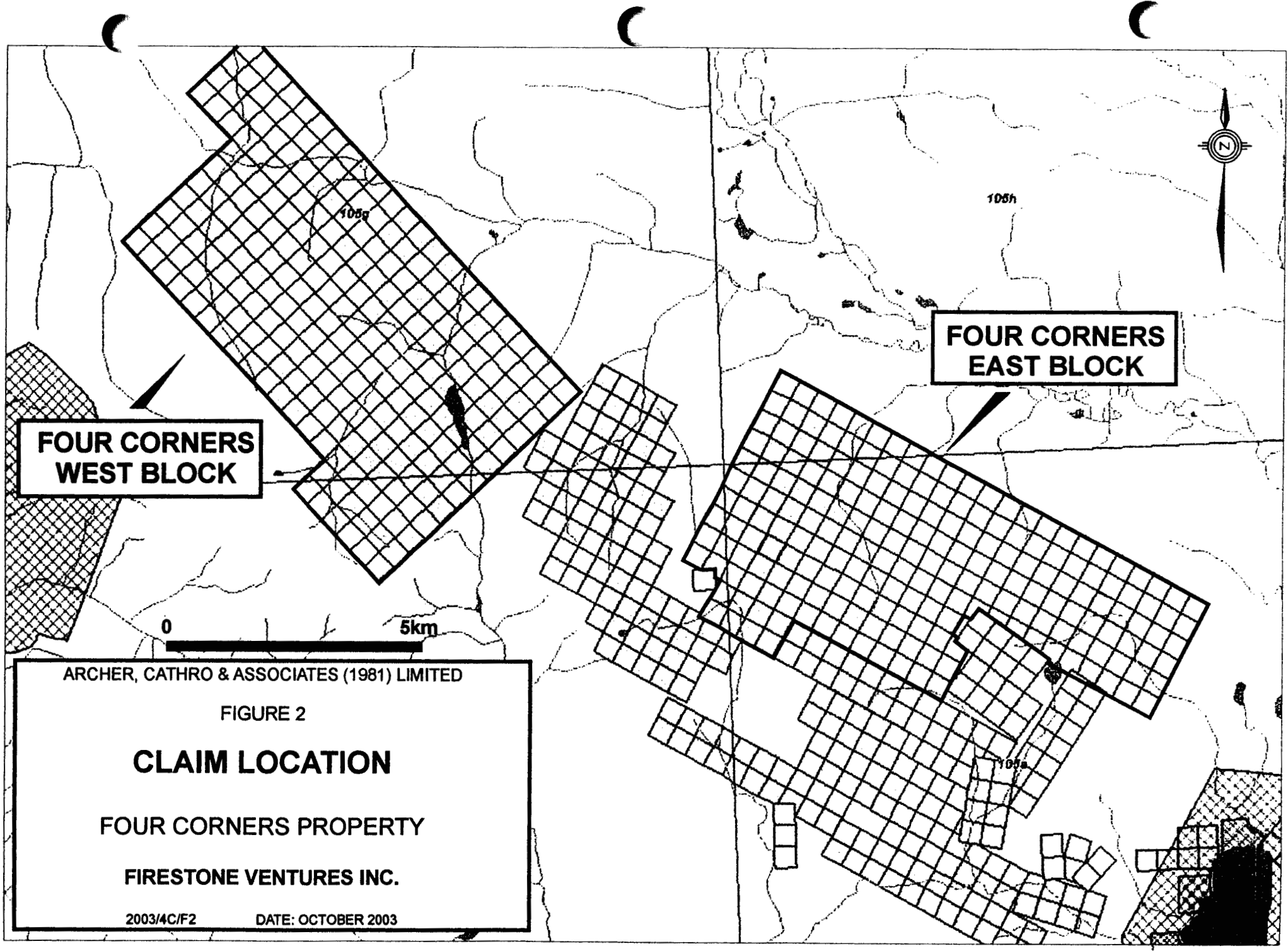
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**FOUR CORNERS
WEST BLOCK**

**FOUR CORNERS
EAST BLOCK**

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FIGURE 2

CLAIM LOCATION

FOUR CORNERS PROPERTY

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Equipment, supplies and personnel were driven from Whitehorse to Finlayson Lake by truck, a distance of 545 km.

The closest ground access route is an abandoned winter trail that extends west from the Robert Campbell Highway to a mineral property near Hasselberg Lake, approximately 4 km southeast of the Four Corners property.

The Four Corners property lies within the Simpson Range of the Pelly Mountains, near the headwaters of the Liard River. Elevations on the westerly claim block range between 1080 and 1788 m and on the easterly block between 1100 and 1710 m. Topography is relatively rugged on both claim blocks, with predominantly north flowing creeks draining U-shaped valleys that often emanate from cirques. Slopes are moderate to steep, typically ranging between 20 and 45°. Ridge crests are mostly rounded uplands with extensive felsenmeer. Ice sheets covered the entire Pelly Mountain area during the Pleistocene with the main ice flow direction southeasterly along the larger river valleys. Alpine glacial features such as cirques, tarn lakes and lateral moraines are common.

Much of the property is above tree line. Vegetation ranges from scattered stunted spruce, balsam and willow at lower elevations, giving way to buckbrush and moss and ultimately to grass and lichen at higher elevations.

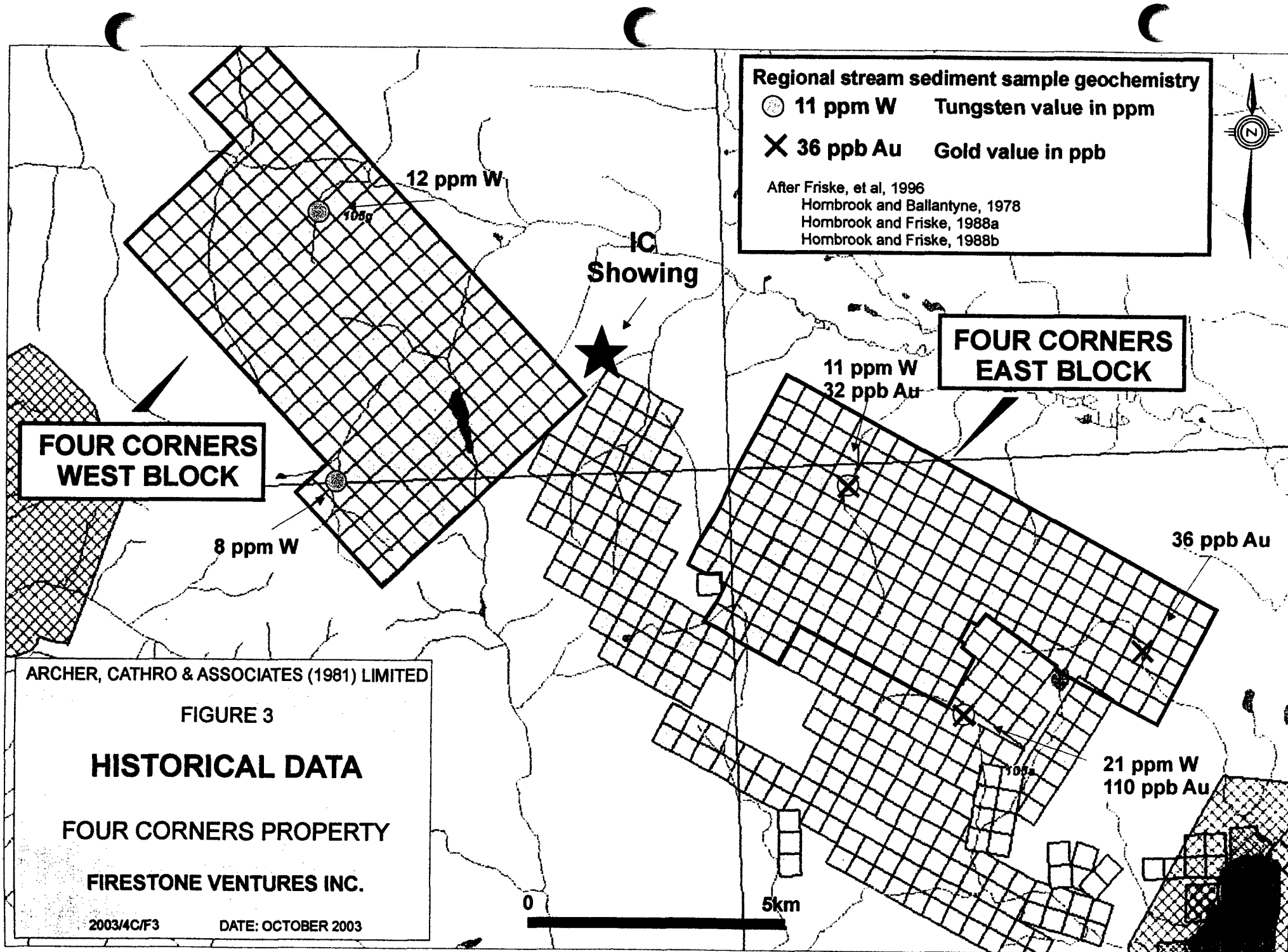
Several creeks draining the claim blocks provide ample water for camp purposes and there are numerous good campsite locations.

PROPERTY HISTORY

Geological mapping on the map sheets encompassing the Four Corners property was done by various Geological Survey of Canada (GSC) mapping parties (Poole, et al, 1960, Roots, et al, 1966, Gabrielse, 1966 and Tempelman-Kluit, 1977). Drainages in the vicinity of the Four Corners property were sampled during four reconnaissance scale stream sediment geochemical surveys supervised by the GSC. These surveys covered the following NTS map sheets: 105A (Friske, et al, 1996), 105B (Hornbrook and Ballantyne, 1978), 105G (Hornbrook and Friske, 1988a) and 105H (Hornbrook and Friske, 1988b). Elements analyzed differed slightly from survey to survey. For example, tungsten and gold analyses were reported for all four surveys, chromium was only done for 105A and beryllium was not done on any of the map sheets.

Samples taken by the GSC from streams draining the Regal Ridge emerald prospect on 105G are distinguished from nearby streams by moderately elevated tungsten values (8 ppm which is in the 95th percentile on that map sheet). One of the creeks also produced 95th percentile values for copper (78 ppm) and uranium (33.5 ppm). Other elements returned background or near background values.

The geochemical signature of the Four Corners property is quite similar to that at Regal Ridge. Notably, four streams draining the Four Corners property yielded tungsten values between 8 and 21 ppm (Figure 3). Some of the creeks also returned copper values similar to those at Regal Ridge. The elements that produced background values at Regal Ridge again showed weak



response at Four Corners. The samples were only analyzed for chromium on 105A. The east claim block of the Four Corners property largely lies on that map sheet. Most streams draining that block of claims yielded strongly anomalous chromium values in the range of 580 to 1600 ppm. Chromium is a key component of emeralds and rocks hosting the emeralds at Regal Ridge are enriched in it, averaging 828 ppm (Murphy, et al, 2003). Three streams draining the east claim block also returned 98th percentile gold values to a maximum of 110 ppb.

The only record of previous mineral exploration by industry on the ground now covered by the Four Corners property was work conducted by Cominco Ltd. between 1995 and 1998. That work targeted volcanogenic massive sulphide mineralization modelled on Cominco's Kudze Kayah deposit located 60 km north-northwest of the Four Corners property.

Cominco flew helicopter-borne geophysical surveys over most of the Finlayson Lake District following discovery of Kudze Kayah, and later staked numerous claim blocks to cover geophysical anomalies throughout the district. Results from the geophysical surveys were not reported for assessment credit so that information is not available for review.

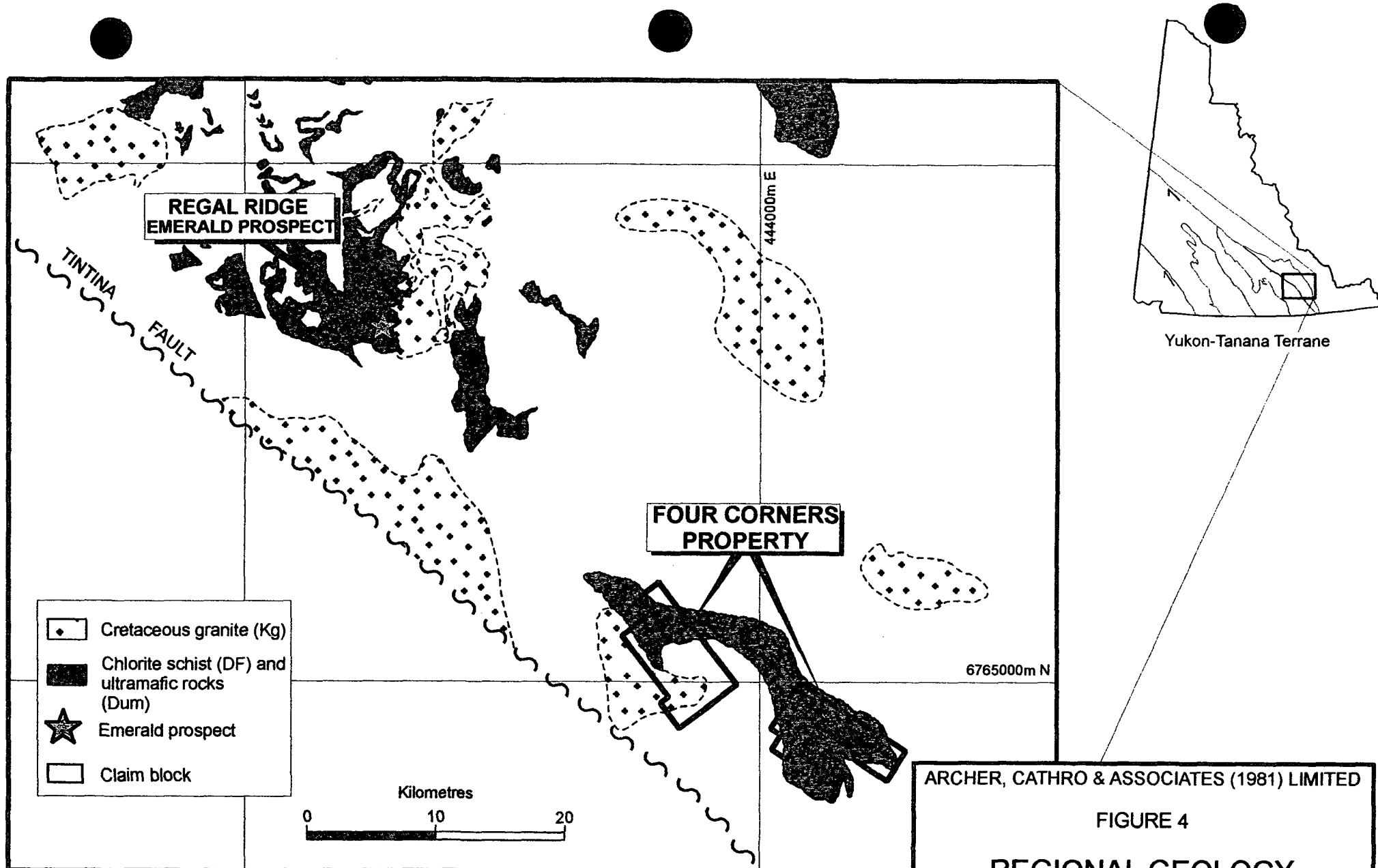
Parts of three old Cominco claim blocks (BL 1-93, Wat 1-165 and IC 1-28 claims) are now covered by the Four Corners property (Deklerk, 2002). Cominco's claims were staked in 1996 and 1997 and were explored in those years by reconnaissance scale geological mapping, prospecting and soil and silt sampling. In 1998 Cominco performed more detailed mapping and prospecting around a stratiform pyrite showing hosted within siliceous felsic exhalite and argillite on the IC claims. This showing (IC Showing) is not on the Four Corners property, but lies about 800 m east of the western claim block, as illustrated on Figure 3.

The IC Showing consists of massive pyrite bands that are 1 to 15 cm thick and contain trace amounts of sphalerite and galena. Specimens of this banded mineralization returned low values ranging up to 0.8% lead and 0.2% zinc. The showing lies within a 1000 m long by 300 m wide coincident lead-zinc-silver soil geochemical anomaly. Peak values from the anomaly are 825 ppm lead, 571 ppm zinc and 5.9 ppm silver. Scattered anomalous copper values to a maximum of 393 ppm were also noted (Bannister and Holroyd, 1998 and Senft, 1997).

GEOLOGICAL SETTING

Regional Geology

The Four Corners property lies within the Yukon-Tanana Terrane, 5 km northeast of the Tintina Fault (Figure 4). This regional scale, transcurrent fault extends across Yukon and into Alaska and resulted in approximately 420 to 460 km of dextral offset in Early Tertiary times (Mortensen, et al, 2000). The Yukon-Tanana Terrane is composed of complexly deformed, greenschist to lower amphibolite facies metamorphic rocks of Paleozoic age (Tempelman Kluit, 1977). The main components are Pre-Late Devonian metaclastic and carbonate rocks, and Late Devonian to Mississippian metavolcanic, metasedimentary and metaplutonic rocks. The latter package includes bimodal volcanic suites, serpentized ultramafic bodies thought to be sills, and granite and quartz monzonite stocks of the Simpson Range Plutonic Suite. Figure 5 is a



After Murphy, et al, 2003

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FIGURE 4

REGIONAL GEOLOGY

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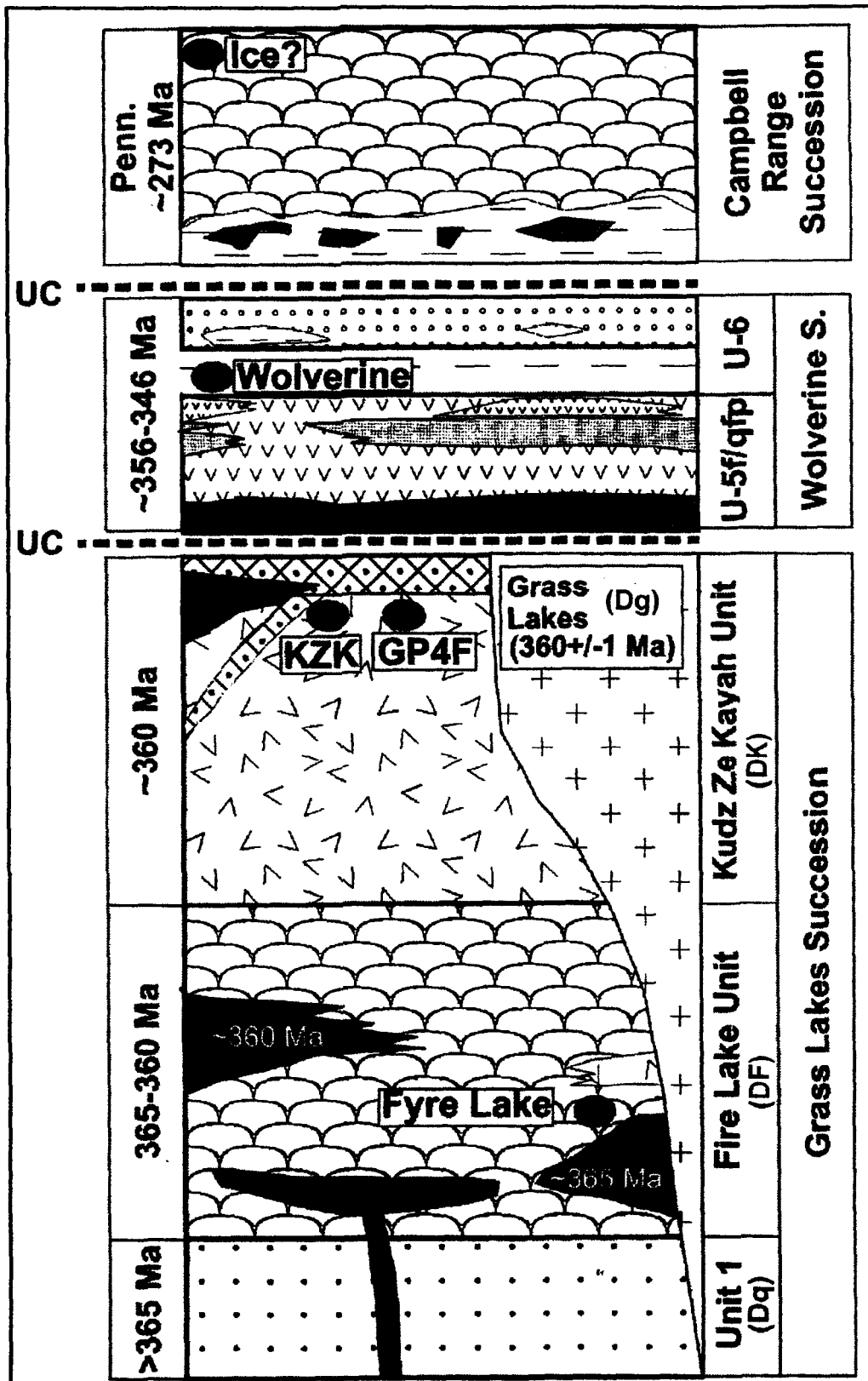


Fig 5. Schematic section of the Finlayson Lake district with the Paleozoic stratigraphy and location of VMS deposits. Dark intrusive rocks within the Fire Lake Unit are ultramafic unit Dum. Cretaceous granitic intrusions (Kg) are not shown. Modified after Murphy and Piercey, 1999 and 2000 and Piercey, et al, 2002

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FIGURE 5

STRATIGRAPHY
FOUR CORNERS PROPERTY

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schematic stratigraphic column showing the relationships between the main Paleozoic units and their approximate ages.

Rocks of the Yukon-Tanana Terrane represent an island arc assemblage that was deformed and imbricated during accretion to the North America craton during the Late Paleozoic (Mortensen, 1992). A second stage of deformation occurred in the Early Cretaceous prior to emplacement of peraluminous granitic intrusions belonging to the approximately 112 Ma Anvil Plutonic Suite (Mortensen, 1999).

Property Geology

Geology in the area of the Four Corners property is shown on Figure 6. The lithological units and contacts are inferred because little detailed property mapping has been done and most contacts are obscured by talus, glacial till or vegetation. Unit descriptions and terminology used throughout this section are based on the most recent mapping in the Finlayson Lake District which was done by the Yukon Geology Program (Murphy and Piercey, 1999) on 105G and 105H. The Yukon Geology Program has not yet published maps illustrating results of mapping it performed in 2003 in the immediate vicinity of the Four Corners property but tentative correlations have already been made to units mapped elsewhere in the Finlayson Lake District (Murphy et al, 2003).

Yukon-Tanana rocks on the Four Corners property form a stacked sequence comprised of three stratigraphic units and laterally extensive ultramafic sills. The lowest unit is composed of clastic metasedimentary rocks correlated to unit Dq. They are overlain by mafic metavolcanic rocks of unit DF or are separated from unit DF by a thick serpentinitized ultramafic sill belonging to unit Dum. The layered sequence is capped by felsic metavolcanic rocks of unit DK. The youngest rocks on the Four Corners property are found along the western edge of the west claim block where the layered rocks are intruded by a north-northwesterly elongated, approximately 15 sq km granitic stock of the Anvil Plutonic Suite (unit Kg). Unit descriptions are shown on the following table.

Table I. Lithological Units at the Four Corners Property
(after Murphy and Piercey, 1999 and Murphy et al, 2003)

<u>Unit (Age)</u>	<u>Description</u>
Qob (Quaternary)	unconsolidated alluvium, colluvium, lacustrine and glacial deposits
Kg (Mid-Cretaceous)	massive to weakly foliated, medium to coarse grained biotite-muscovite granite, generally equigranular
Dum (Late Devonian)	brown weathering, dark green to black, variably serpentinitized dunite, includes gabbro and/or pyroxenite locally

DK (Late Devonian)	Kudze Kayah felsic metavolcanic unit: feldspar-muscovite-quartz schist
DF (Late Devonian)	Fire Lake mafic metavolcanic unit: massive to subtly layered chlorite-biotite- plagioclase-actinolite schist
Dq (Pre-Late Devonian)	Biotite-muscovite-feldspar-quartz schist, micaceous quartzite and psammite, quartz- biotite-muscovite metapelitic schist, and marble

Compositional layering in the stratified rocks approximately parallels foliation. The foliation attitudes strike northwesterly and dip moderately to the north or south, about a northwest plunging anticlinal axis.

The most prominent structural feature in the vicinity of the Four Corners property is the Tintina Fault. This steeply dipping transcurrent structure lies about 5 km southwest of the property. Although no significant faults have been mapped on the property, abundant quartz veins in the central part of the west claim block indicate that extensional structures are present.

Two thrust faults have been identified in the Four Corners area. The larger of these shallowly dipping structures lies about 3 km north of the property and forms the southern limit of a major feature called the Money Klippe. Rocks within this klippe are quite different from those on the Four Corners property. The other thrust is located immediately southwest of the east claim block. It only affects the local layered sequence and creates a 7 sq km klippe, within which part of the stratigraphic section is repeated.

DEPOSIT TYPES

The geological setting at the Four Corners property closely resembles that at the Regal Ridge emerald prospect, located about 40 km to the northwest. At Regal Ridge, chromium rich emerald crystals occur within quartz veins and in layers and pockets within muscovite altered selvages developed along the margins of the veins. At least 13 mineralized veins occur in a 2 sq km area on either side of a prominent ridge. The mineralized veins cut chloritic schist of the Fire Lake mafic metavolcanic unit (DF) near the contact with a granitic stock of the Anvil Plutonic Suite (Kg). The veins typically range between 0.2 and 1 m in width. The emerald crystals are up to 4 cm long and are typically surrounded by fine dark tourmaline with minor scheelite and chalcopyrite. Emerald is developed adjacent to the veins where it cuts mica rich layers within the schist, and occasionally in the veins themselves.

During summer 2002, True North conducted bulk sampling at the prospect. On December 12, 2002, it reported favourable results from seven areas. The most promising values were from the Southwest Zone where a 6.36 tonne bulk sample yielded 11.59 kg of gem concentrate, of which 121.42 g were gem quality and 587.33 g near gem quality. A total of 284, +4.5 mm gemstones

were extracted from the concentrate, at an average of 0.33 g (1.75 carats) per stone (Smith, 2002).

Emerald deposits are relatively rare, with current or past production from mines in Columbia, Pakistan, Afghanistan, Russia, Zambia, Egypt and Brazil. They are subdivided into two main types. Most emerald deposits belong to Type I (Schwarz and Giuliani, 2001) which are related to granitic intrusions. The Columbian occurrences are unique and comprise Type II. There, the emeralds are associated with hydrothermal activity in areas where fluid circulation is controlled by tectonic features such as thrust faults and shear zones. Regal Ridge is thought to be a Type I deposit based upon its geological setting.

Figure 7 illustrates the basic model for emerald formation at Regal Ridge. Fundamentally, emeralds are the gem variety of green beryl. The green colour is caused by chromium or less commonly, vanadium impurities. The source of the beryllium needed to form the beryl at Regal Ridge is thought to be a nearby unit Kg granitic stock. Fluids derived from that beryllium reservoir presumably migrated outward and upward through the adjacent unit Dum ultramafic rocks and unit DF mafic metavolcanic schist, which are chromium reservoirs. Interaction between the beryllium enriched vein fluids and chromium bearing wallrocks resulted in formation of emeralds along the margin of the veins (Murphy, et al, 2003).

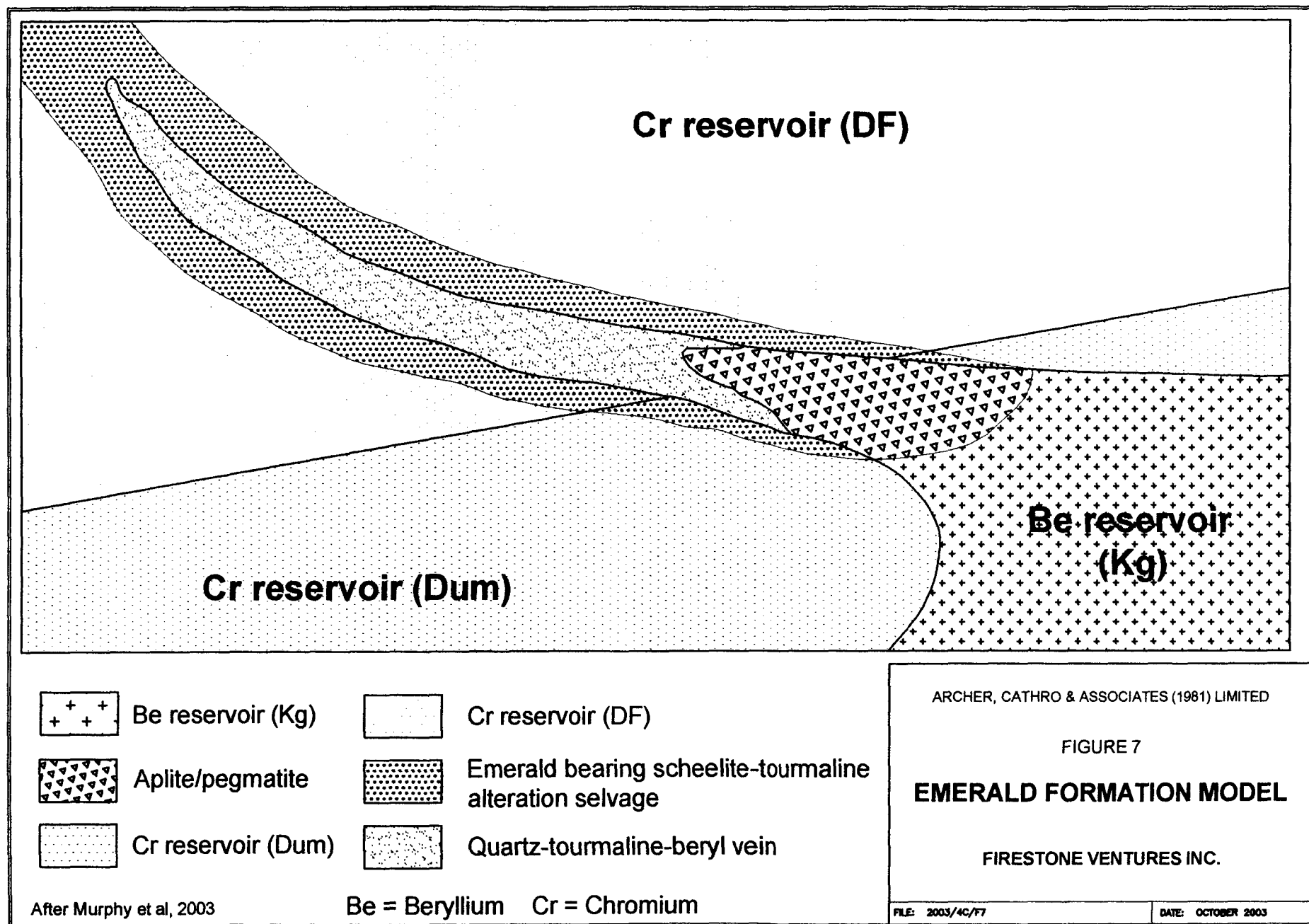
2003 EXPLORATION

The 2003 exploration program was conducted in two phases from a series of fly camps on the property, under the author's supervision. The exploration crew normally consisted of four fieldmen. Phase 1 of the work program was exclusively reconnaissance in scale, consisting of geological mapping, prospecting, stream sediment sampling and creek panning. Phase 2 followed up anomalous results from Phase 1.

Rock, stream sediment and soil samples were sent to ALS Chemex in North Vancouver where they were prepared for analysis. Rock samples were weighed, dried and fine crushed to better than 70% at -2 mm before a 250 g split of this material was pulverized to better than 85% passing 75 micron. Each sample was then processed using HF, HNO₃, and HClO₄ digestion followed by an HCl leach and a combination of ICP-Mass Spectrometry and ICP-Atomic Emission Spectrometry.

Soil and stream sediment samples were weighed, dried and dry sieved to 80 mesh, digested using aqua regia digestion and analyzed for 34 elements by ICP-Atomic Emission Spectrometry.

Rock and soil samples returning elevated values for gold indicator elements were resubmitted for gold analysis by fire assay and ICP- Atomic Emission Spectrometry using a 30 g charge. Certificates of Analysis appear in Appendix II.



Mineralization

Three types of mineralization were discovered on the Four Corners west claim block in 2003:

- 1) beryl crystals;
- 2) elevated gold values in a discordant, silica altered zone; and,
- 3) a stratabound pyrite-arsenopyrite horizon accompanied by a high gold value in soil.

All three occurrences are hosted by Fire Lake metavolcanic rocks (Figure 6).

Two beryl crystals were discovered in tourmaline bearing, quartz-feldspar pegmatite float surrounded by calcareous schist talus. Some of the schist is weakly skarnified with epidote and diopside crystals developed along limy bands. The larger of the two beryl crystals has a 1.3 cm diameter cross section, is opaque to translucent and exhibits a pale blue colour. Beryl of this type is characterized as non-gem quality aquamarine.

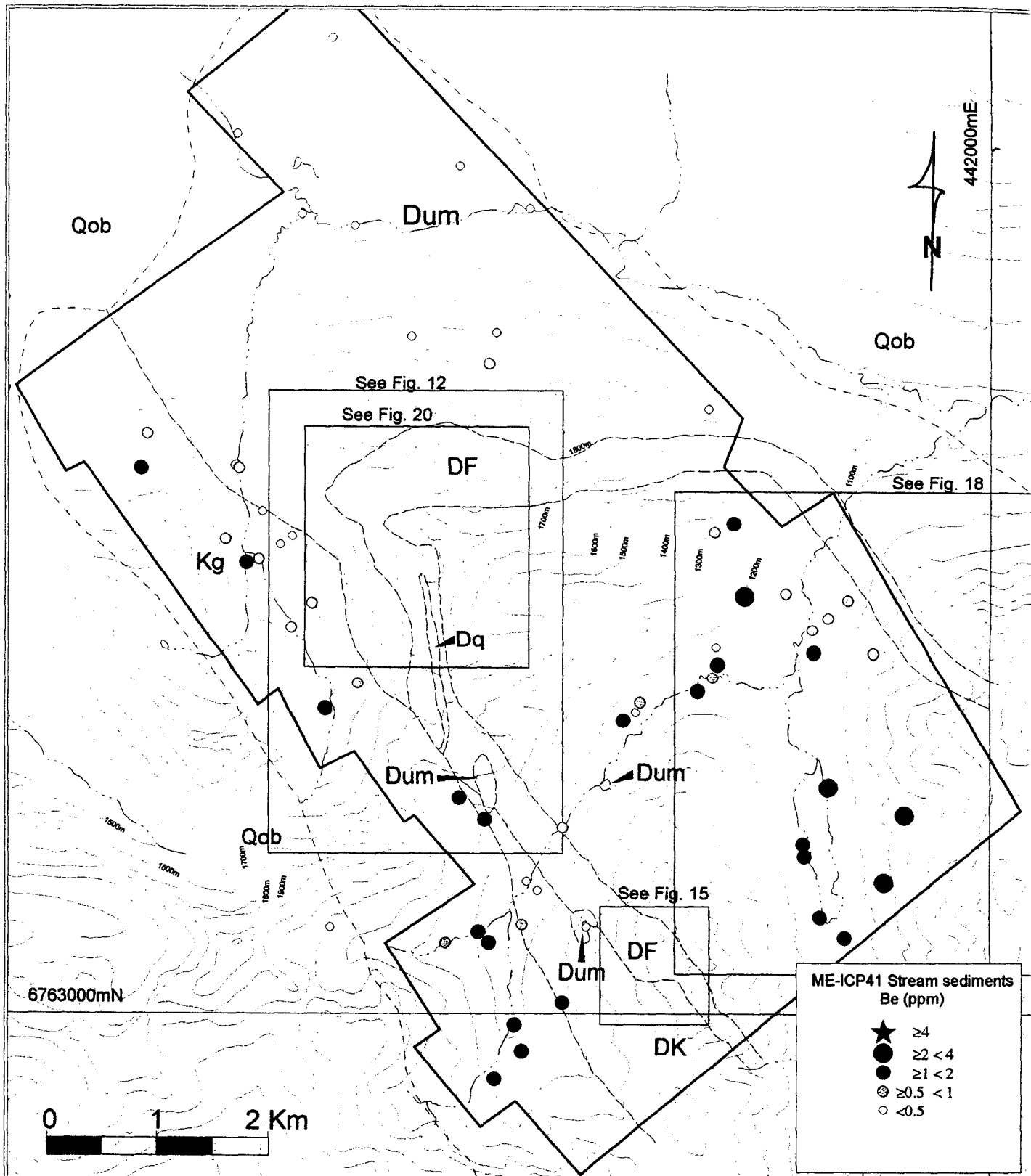
The gold bearing silica altered zone forms a more than 100 m long talus train that cuts across chlorite schist. The talus train is about 8 m wide and consists primarily of white quartz flooded material. In the centre of the train is a 1 to 3 m wide band of distinctive green chalcedony believed to be coloured by finely disseminated chrome mica. A chip sample composed of several chips from two, 70 cm diameter boulders of the green chalcedony assayed 4.28 g/t gold and 2.64 g/t silver. Another chip sample taken nearby across 3 m of talus, centred on the green chalcedony band returned 198 ppb gold. The source of the mineralized talus is not exposed.

The other gold occurrence is located about 1000 m to the northeast and is exposed along an actively eroding creek bank. Disseminated pyrite and arsenopyrite occur in a 3 to 5 m thick, dark grey siliceous horizon within a section of chlorite schist. This horizon was not sampled but rusty soil collected a few metres uphill returned a strongly anomalous value of 591 ppb gold.

Prospecting to date on the Four Corners property has been largely reconnaissance in nature and none of the above-mentioned mineral occurrences has been systematically mapped or sampled.

Geochemistry

Figures 8 to 10 illustrate sample locations plus beryllium and chromium geochemical results from the silt fraction of stream sediment samples taken from the west claim block. Beryllium values from streams draining the west claim block were up to 2.7 ppm. The best results occur in an approximately 1200 m wide by 4200 m long belt, which lies 3 km northeast of the contact between the Cretaceous intrusion (unit Kg) and felsic metavolcanic (unit DK). Not surprisingly the highest chromium values (up to 734 ppm) came from areas underlain by unit Dum ultramafic rocks. The chromium values are not as high as those reported by the GSC but this discrepancy is likely due to different sample preparation procedures. Comparison of chromium results from Four Corners to those from other parts of the Finlayson Lake District, where the same



INTRUSIVE ROCKS
CRETACEOUS
 Kg Granite
LATE DEVONIAN
 Dum Ultramafic rocks

LAYERED ROCKS
LATE DEVONIAN
 DK Felsic metavolcanics
 DF Mafic metavolcanics
 Dq Clastic sediments
 Qob Quaternary overburden

— Claim boundary

— Known contact

--- Inferred contact

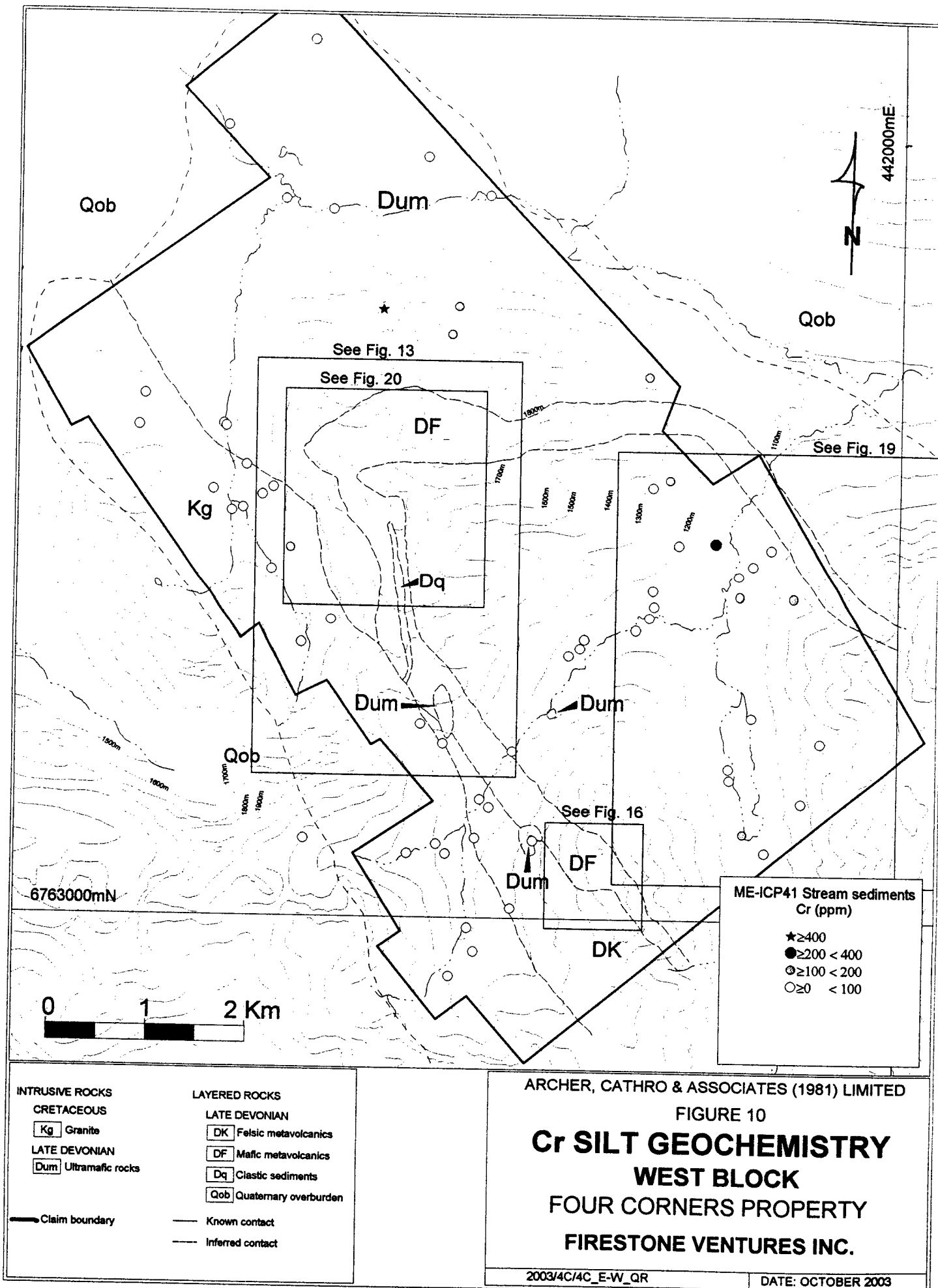
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FIGURE 9

Be SILT GEOCHEMISTRY
WEST BLOCK
FOUR CORNERS PROPERTY
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preparation techniques were used, indicates that many of the Four Corners samples are strongly enriched in chromium. Regionally, any value exceeding 200 ppm chromium is considered strongly anomalous. At most stream sediment sample sites, the gravels were also panned. The resulting concentrates were saved and later examined under binocular microscope and ultraviolet light. Tourmaline crystals are most abundant in streams draining the west claim block. Scheelite is present in only trace quantities, mostly in streams located near the unit Kg intrusion. No beryl was observed in any of the pans.

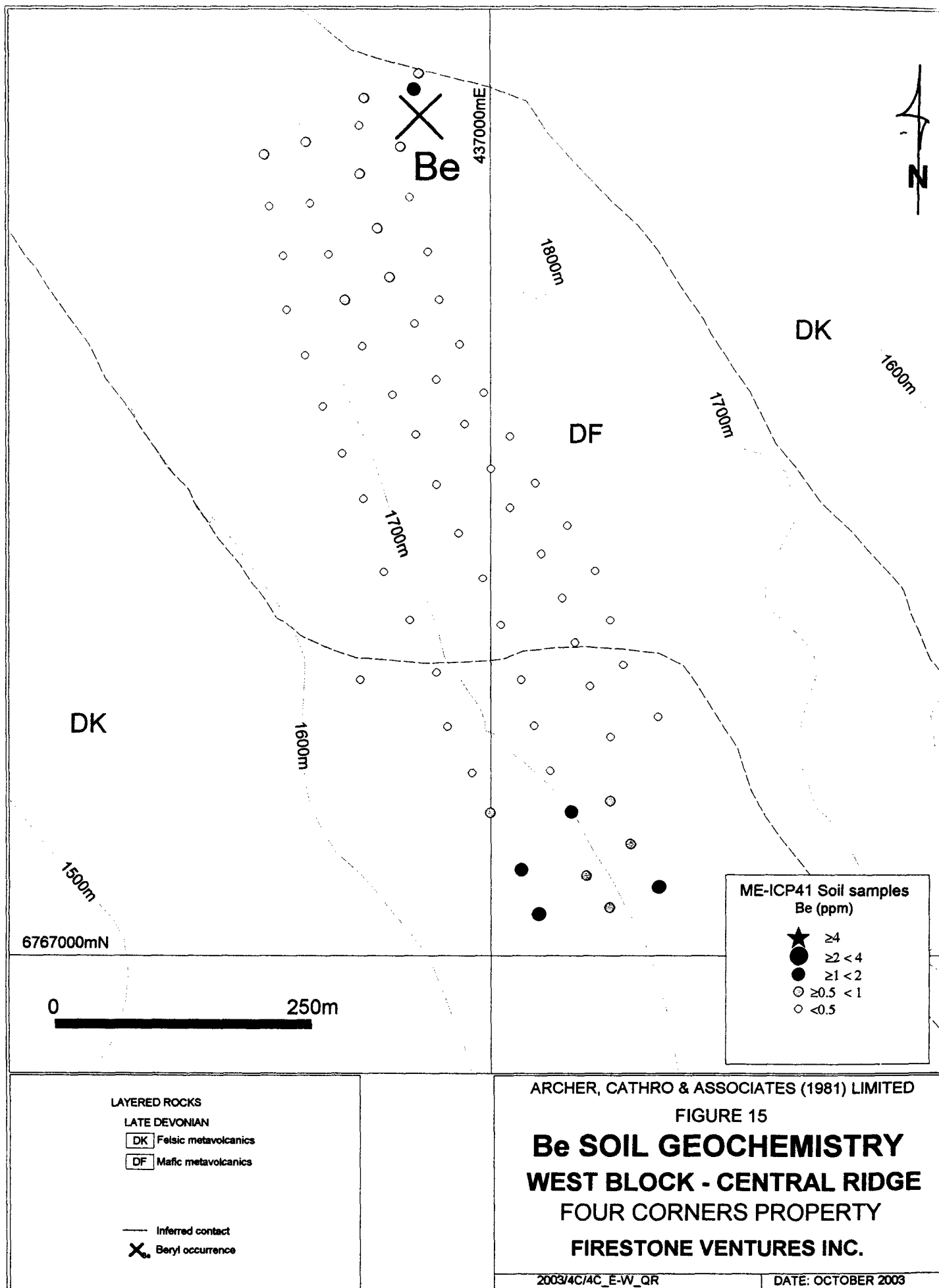
Figures 11 to 13 illustrate sample locations and geochemical results from grid soil sampling done in the West Ridge area of the west claim block for beryllium and chromium, respectively. Figures 14 to 16 show sample locations and data for the same two elements from grid soil samples taken in the Central Ridge area of the west claim block.

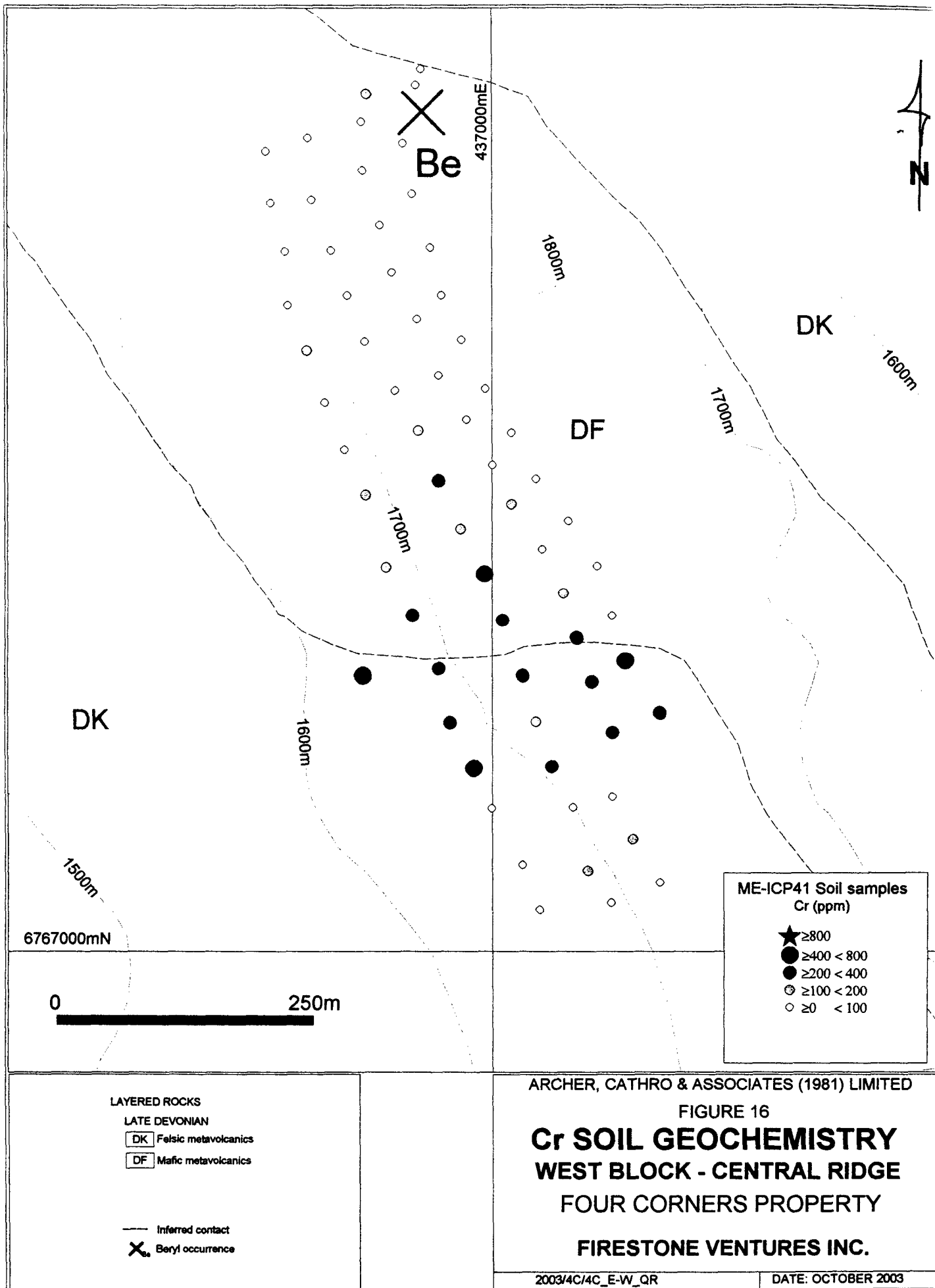
The West Ridge area returned weakly anomalous beryllium and moderate to strong chromium values from stream sediment samples but more importantly is underlain by heavily quartz veined, chlorite schists that lie within 1500 m of the unit Kg intrusion. This geological setting closely resembles the setting where emeralds occur at the Regal Ridge prospect. The grid soil samples yielded numerous moderately to strongly anomalous beryllium values, most from areas underlain by unit DF chlorite schist. Some weakly anomalous chromium values accompany the higher beryllium values but the highest chromium results are from soils apparently derived from unit Dum ultramafic rocks, which underlie the unit DF schists. Prospecting in the vicinity of the beryllium anomalies located several areas of bird's foot tourmaline in the chlorite schists and disseminated to massive tourmaline crystals in quartz veins but did not discover any beryl crystals. Bird's foot tourmaline consists of prismatic crystals that form radial aggregates fanning out along foliation planes. This feature and tourmaline bearing quartz veins are both common in the vicinity of emerald showings at Regal Ridge.

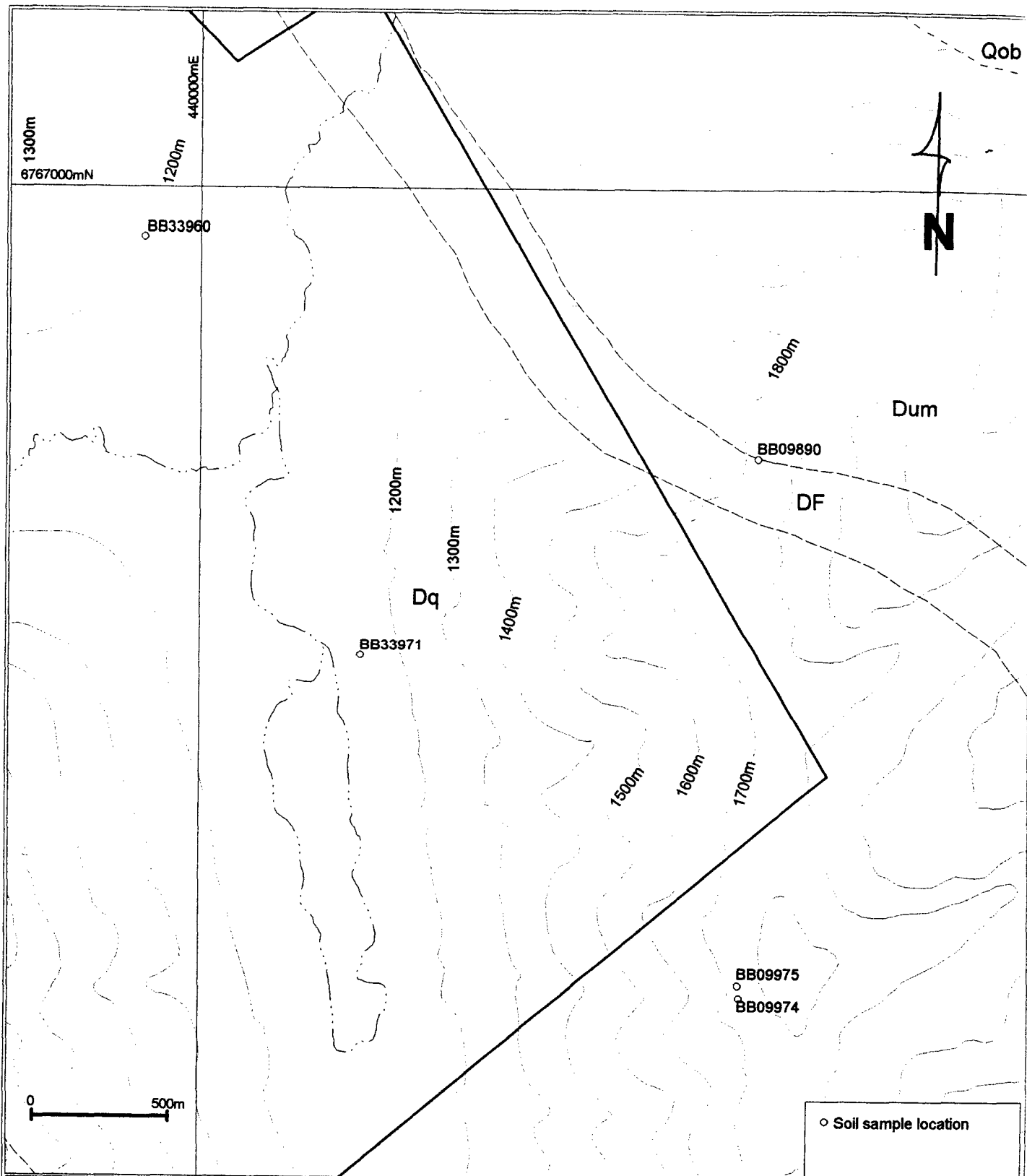
The Central Ridge grid lies about 2000 m southeast of the West Ridge grid and about 1200 m northeast of the intrusive contact. It is underlain by unit DF chlorite schist and unit DK felsic metavolcanic rocks. Streams draining the area produced moderately anomalous beryllium values but near background chromium results. The area was grid sampled because widespread tourmaline bearing pegmatite float was noted during geological mapping. The soil sampling outlined two areas of moderately anomalous beryllium values in opposite corners of the grid. The northerly anomaly is underlain by unit DF chlorite schist and the southerly anomaly by unit DK felsic metavolcanics. Follow up prospecting at the northerly anomaly discovered beryl crystals.

Five soil samples were selected from various parts of the eastern part of the west claim block. Sample locations and results for beryllium and chromium are illustrated on Figures 17 to 19. Beryllium values for these widely spaced samples were moderately anomalous and chromium response was low.

Elevated gold values were detected in green chalcedony float collected from the northern part of the West Ridge grid. Subsequently, 17 soil samples were reanalyzed for gold (Figure 20). The soil sample taken closest to the gold rich rock returned 35 ppb gold while another taken 40 m uphill yielded 83 ppb. Surprisingly, two samples taken 1000 m to the north and about 600 m







INTRUSIVE ROCKS

LATE DEVONIAN

Dum Ultramafic rocks

— Claim boundary

LAYERED ROCKS

LATE DEVONIAN

DF Mafic metavolcanics

Dq Clastic sediments

Qob Quaternary overburden

— Inferred contact

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 17

SOIL SAMPLE LOCATIONS

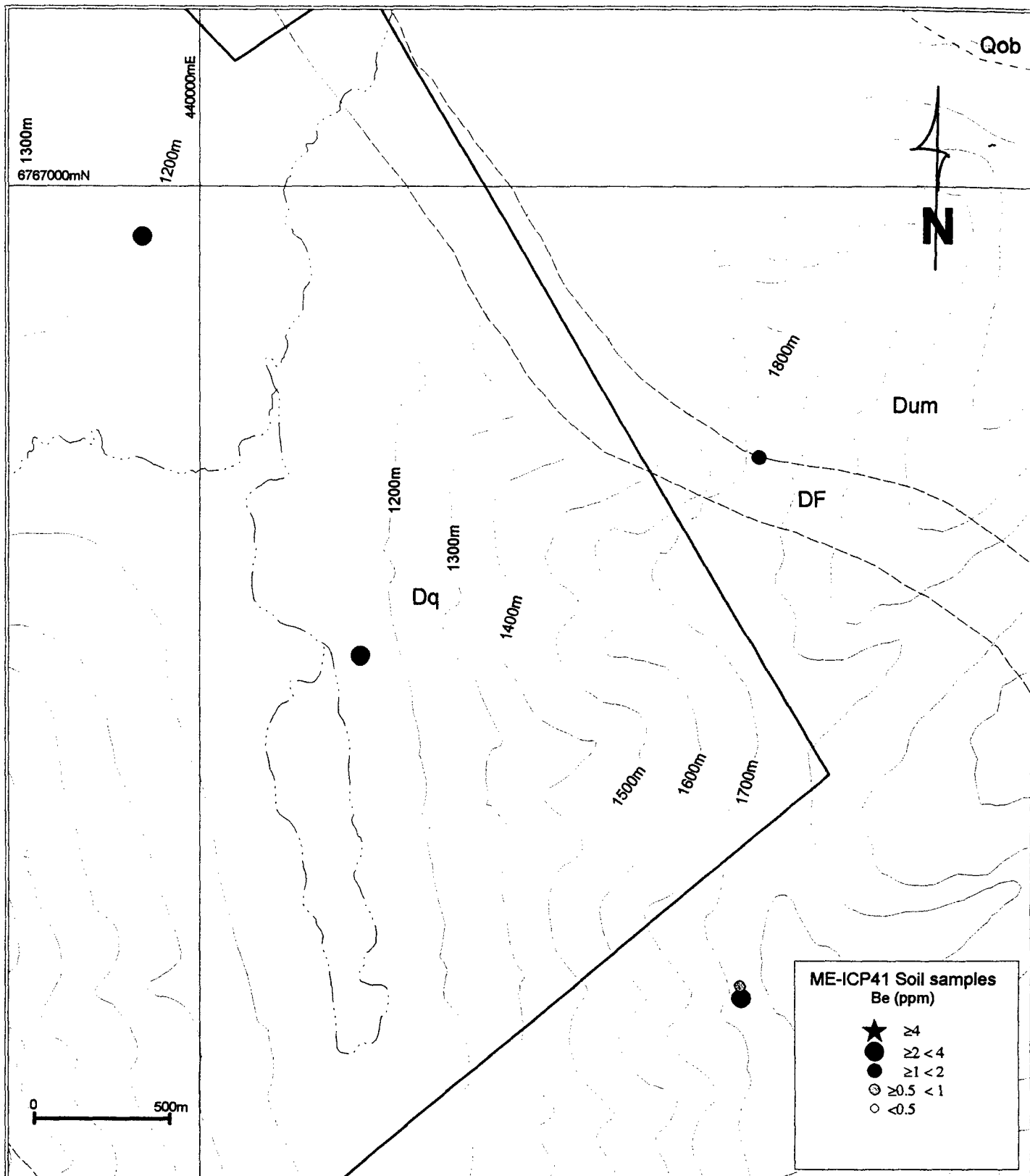
WEST BLOCK - EAST RIDGE

FOUR CORNERS PROPERTY

FIRESTONE VENTURES INC.

2003/4C/4C_E-W_QR

DATE: OCTOBER 2003



INTRUSIVE ROCKS

LATE DEVONIAN

Dum Ultramafic rocks

LAYERED ROCKS

LATE DEVONIAN

DF Mafic metavolcanics

Dq Clastic sediments

Qob Quaternary overburden

— Claim boundary

— Inferred contact

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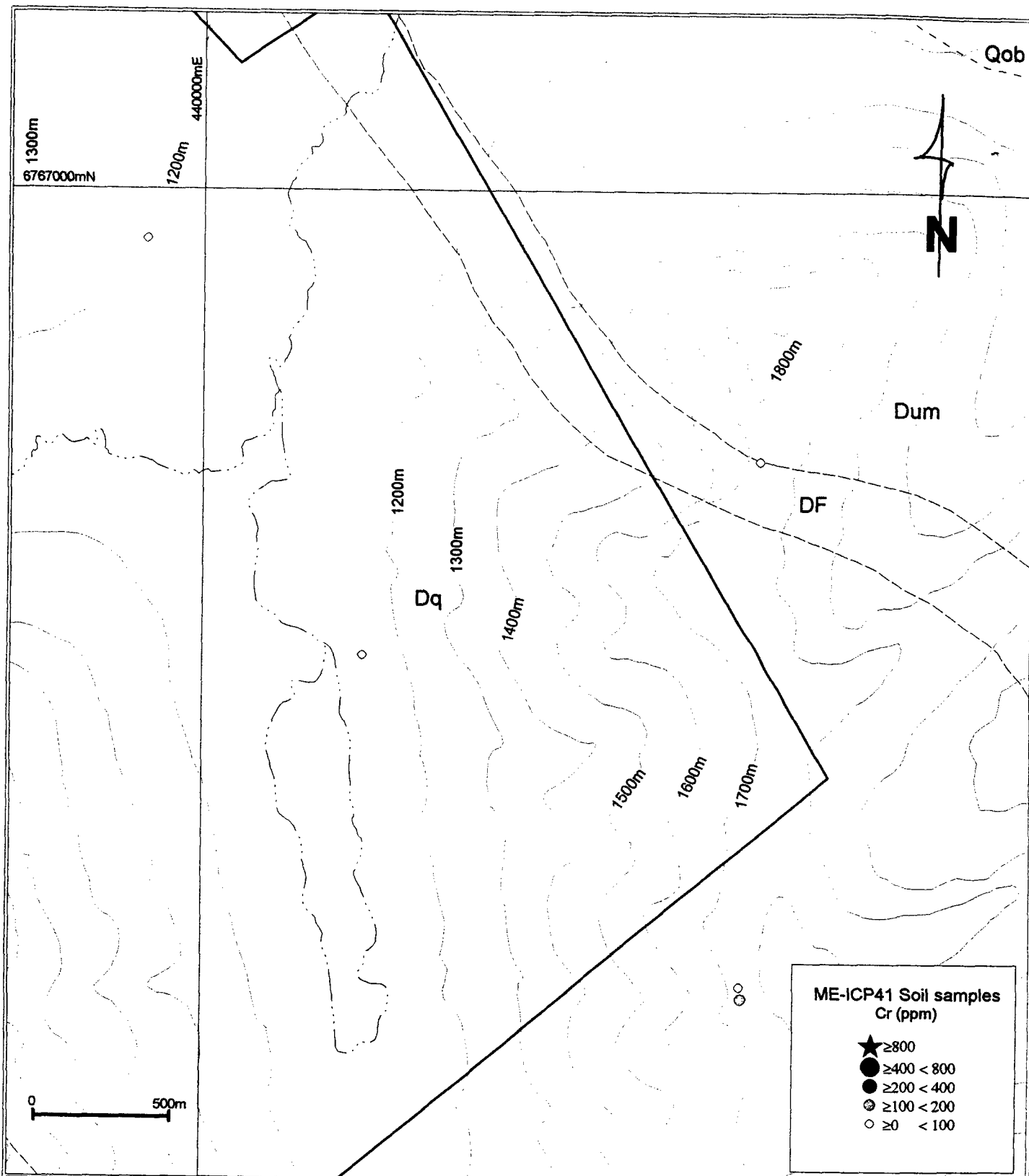
FIGURE 18

Be SOIL GEOCHEMISTRY WEST BLOCK - EAST RIDGE FOUR CORNERS PROPERTY

FIRESTONE VENTURES INC.

2003/4C/4C_E-W_QR

DATE: OCTOBER 2003



ME-ICP41 Soil samples
Cr (ppm)

- ★ ≥800
- ≥400 < 800
- ≥200 < 400
- ⊙ ≥100 < 200
- ≥0 < 100

INTRUSIVE ROCKS

LATE DEVONIAN

Dum Ultramafic rocks

LAYERED ROCKS

LATE DEVONIAN

DF Mafic metavolcanics

Dq Clastic sediments

Qob Quaternary overburden

— Claim boundary

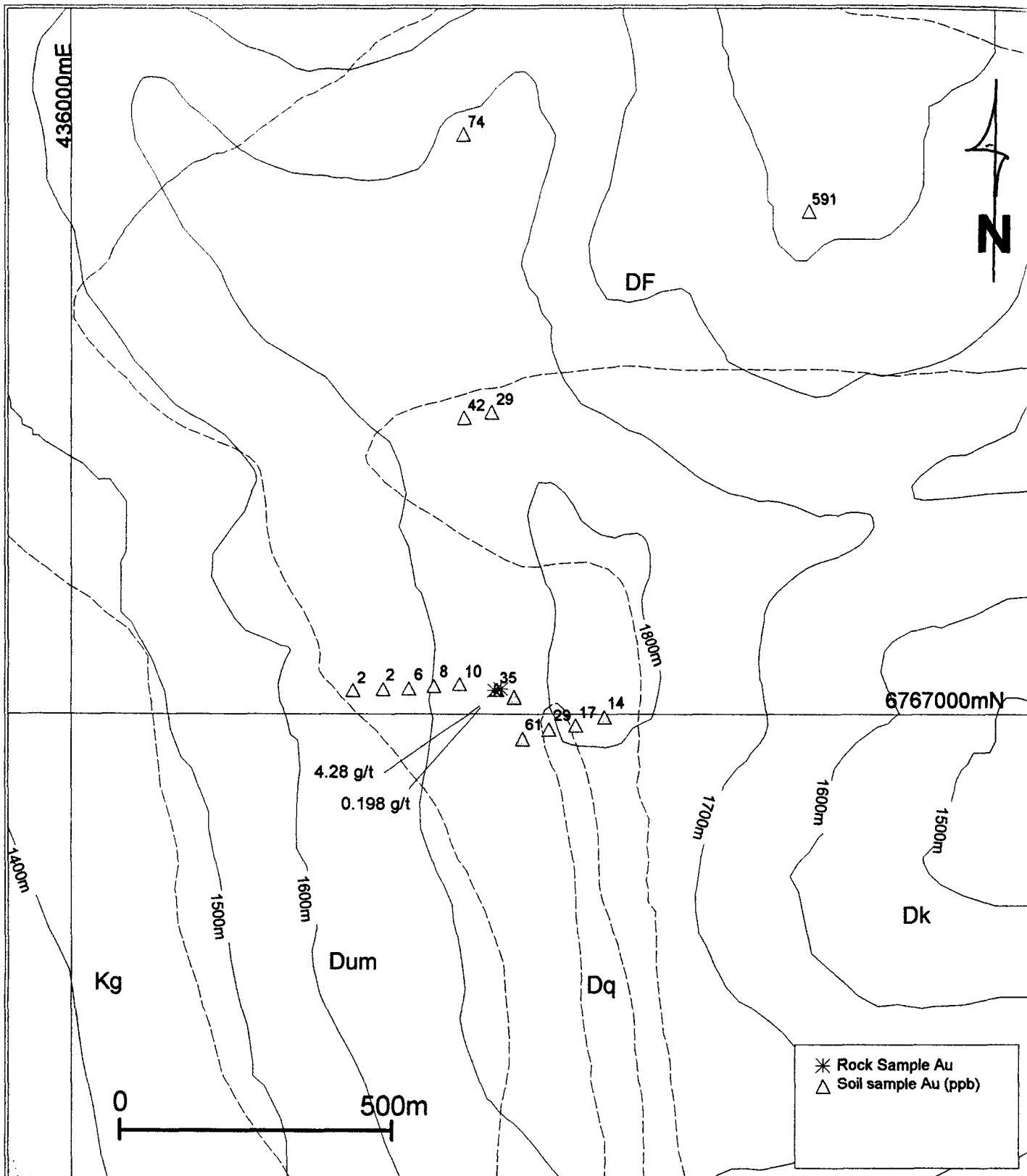
--- Inferred contact

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
FIGURE 19

Cr SOIL GEOCHEMISTRY
WEST BLOCK - EAST RIDGE
FOUR CORNERS PROPERTY
FIRESTONE VENTURES INC.

2003/4C/4C_E-W_QR

DATE: OCTOBER 2003



* Rock Sample Au
 △ Soil sample Au (ppb)

INTRUSIVE ROCKS

CRETACEOUS

Kg Granite

LATE DEVONIAN

Dum Ultramafic rocks

LAYERED ROCKS

LATE DEVONIAN

DK Felsic metavolcanics

DF Mafic metavolcanics

Dq Clastic sediments

— Known contact

- - - Inferred contact

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 20

Au GEOCHEMISTRY WEST BLOCK

FOUR CORNERS PROPERTY

FIRESTONE VENTURES INC.

2003/4C/4C_E-W_QR

DATE: OCTOBER 2003

apart returned 74 and 591 ppb gold. The higher of these two soils was collected near the siliceous horizon containing disseminated pyrite and arsenopyrite. Three hundred and thirty-one pulps were selected from a relatively uniform distribution across the grid and analyzed for gold. Only 11 returned values exceeding 25 ppb gold to a maximum of 96 ppb. Too few samples were reanalyzed to reliably establish gold backgrounds but, based on data from other parts of the Finlayson Lake District, values exceeding 25 ppb gold are usually considered to be anomalous and values exceeding 100 ppb are rare.

INTERPRETATION AND CONCLUSIONS

Although no emeralds have yet been discovered on the Four Corners property, they remain a prime exploration target. The geological setting of the west claim block closely resembles the setting at the Regal Ridge emerald prospect. All of the key geological units are present, specifically an Anvil Plutonic Suite intrusion to act as a beryllium reservoir and Fire Lake mafic metavolcanic rocks (unit DF) and ultramafic rocks (unit Dum) to serve as chromium reservoirs. Stream sediment and soil geochemistry have confirmed beryllium and chromium enrichment. Discovery of beryl crystals in pegmatite dyke talus shows that the beryllium rich fluids have moved out of the granite stock and interacted with wallrocks. Widespread quartz veining and tourmaline alteration within unit DF chlorite schist are also encouraging indicators for emerald because both are intimately associated with emerald at Regal Ridge and neither is common elsewhere within the district. Although exploration conducted to date on the Four Corners property is too widely spaced to have sufficiently evaluated emerald potential, it has successfully narrowed the prime target areas. The most promising targets are in the West and Central ridge areas of the west claim block.

The 2003 exploration program also demonstrated that the Four Corners property has potential for gold. Although only a few rock and soil geochemical analyses have been performed, two prospective targets have been identified. The two areas are about 1000 m apart and consist of silicified zones in unit DF chlorite schist. Neither has been mapped in detail nor thoroughly prospected. Follow up work should definitely be done to evaluate both of these gold targets and to determine if there are other prospective areas elsewhere on the property.

RECOMMENDATIONS

Additional work is warranted at the Four Corners property. Emerald and gold are the prime exploration targets and the following is a list of specific tasks that should be performed.

- 1) All soil and stream sediment samples collected in 2003 should be reanalyzed in spring for gold.
- 2) The entire west claim block should be mapped and prospected in detail to identify areas of pegmatite or aplite dykes, quartz veining, tourmalinization, muscovite alteration and silicification.

- 3) The soil geochemical grid at the Central Ridge on the west claim block should be extended and additional grids established in areas where mapping and prospecting identify promising alteration or mineralization.
- 4) Deep soil profile auger drilling and/or hand trenching should be done in overburden covered areas where favourable mineralogical and geochemical indicators are outlined to search for a bedrock source. Soil from the bottoms of the auger holes should be geochemically analyzed and panned for visual examination.
- 5) Both of the silicified zones where anomalous gold values have been discovered should be carefully mapped and hand trenched to provide bedrock exposures for chip sampling.

Respectfully submitted

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



W.A. Wengzynowski, P.Eng.

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APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, William A. Wengzynowski, geological engineer, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Garibaldi Highlands, British Columbia, do hereby certify that:

1. I am President of Archer, Cathro & Associates (1981) Limited.
2. I graduated from the University of British Columbia in 1993 with a B.A.Sc in Geological Engineering, Option I, mineral and fuel exploration.
3. I registered as a Professional Engineer in the Province of British Columbia on December 12, 1998 (Licence Number 24119).
4. From 1983 to present, I have been actively engaged in mineral exploration in the Yukon Territory, Northwest Territories and northern British Columbia.
5. I have personally participated in and supervised the fieldwork reported herein.

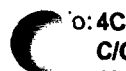


William A. Wengzynowski, P. Eng.

APPENDIX II
CERTIFICATES OF ANALYSIS



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Project : 4C West

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This report is for 211 PULP samples submitted to our lab in North Vancouver, BC, Canada on 10-Oct-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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CERTIFICATE OF ANALYSIS VA03041021

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001
BB09945		0.074
BB09968		0.042
BB09969		0.029
M24424		0.083
M24430		0.014
M24431		0.017
M24432		0.029
M24433		0.061



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CERTIFICATE VA03041020

Project : 4C West

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This report is for 120 PULP samples submitted to our lab in North Vancouver, BC, Canada on 10-Oct-2003.

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JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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VA03041020

Sample Description	Method Analyte Units LOR	Au-ICP21 Au ppm 0.001
BB09890		0.063
BB09891		0.035
BB09974		0.003
BB33962		0.591
BB37509		0.002
BB37510		0.002
BB37511		0.006
BB37512		0.008
BB37513		0.010



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CERTIFICATE VA03034436

Project : 4C West

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This report is for 2 ROCK samples submitted to our lab in North Vancouver, BC, Canada on 5-Sep-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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
P-ICP62	P - Four Acid / ICP	ICP-AES
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	47 element four acid ICP-MS	

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Project: 4C West

CERTIFICATE OF ANALYSIS VA03034436

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA24 Au ppm 0.005	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
APAT.TE (BEST)		7.18	4.28	2.64	2.41	41.0	190	0.68	0.34	0.02	0.06	4.04	33.7	954	7.87	19.6
APAT.TE (TYPICAL)		3.08	0.198	0.58	1.86	65.3	100	0.32	0.29	0.11	0.04	7.30	15.0	435	1.60	10.2

Comments: REE's may not be totally soluble in MS61 method.

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es : 2 (A - D)

Date : 21-Sep-2003

Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS**VA03034436**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
APAT.TE (BEST)		0.50	12.60	0.08	<0.1	0.017	0.07	2.2	76.2	0.06	52	1.05	0.01	0.1	513
APAT.TE (TYPICAL)		1.20	7.99	0.07	0.1	0.013	0.09	3.6	45.3	0.06	116	0.76	0.01	0.1	249

Comments: REE's may not be totally soluble in MS61 method.



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es : 2 (A - D)
Date : 21-Sep-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03034436

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	P-ICP62
	Analyte	W	Y	Zn	Zr	P205
	Units LOR	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	% 0.01
APAT.TE (BEST)		0.3	0.8	54	1.0	0.02
APAT.TE (TYPICAL)		0.1	2.2	25	1.9	0.01

Comments: REE's may not be totally soluble in MS61 method.



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Page #: 1

Date: 4-Sep-2003

Account: FOURC

CERTIFICATE VA03033024

Project : 4C West Block

P.O. No:

This report is for 1 SOIL sample submitted to our lab in North Vancouver, BC, Canada on 30-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
----------	-------------------------------	---------

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Pages: 2 (A - C)

Date: 4-Sep-2003

Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03033024

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB37865		0.32	<0.2	4.17	4	10	330	7.7	<2	0.87	<0.5	63	159	99	6.13	10



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je #: 2 - B
as : 2 (A - C)
Date : 4-Sep-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS **VA03033024**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti
		ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1	% 0.01
BB37865		<1	0.35	10	1.64	1235	1	0.02	111	920	6	0.01	<2	32	24	0.03



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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8



je #: 2 - C

Pages : 2 (A - C)

Date : 4-Sep-2003

Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS

VA03033024

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB37865		<10	<10	249	<10	116



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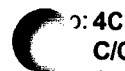
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To: 4C

C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED

1016-510 W HASTINGS ST

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Page # : 1

Date : 26-Aug-2003

Account: FOURC

CERTIFICATE VA03031311

Project : 4C West

P.O. No:

This report is for 139 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 19-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: 4C

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 2 - A

Pages : 5 (A - C)

Date : 26-Aug-2003

Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS

VA03031311

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB37612		0.22	<0.2	2.44	2	<10	110	<0.5	<2	0.58	<0.5	15	129	112	1.54	<10
BB37613		0.18	<0.2	1.60	2	<10	70	<0.5	<2	0.25	<0.5	8	33	65	1.26	<10
BB37614		0.20	<0.2	2.29	<2	<10	230	0.8	<2	0.37	0.6	20	73	80	2.67	10
BB37615		0.30	<0.2	2.41	<2	<10	120	1.3	<2	0.89	<0.5	23	94	106	2.83	10
BB37616		0.20	<0.2	1.72	<2	<10	60	0.6	<2	0.33	<0.5	16	49	78	1.84	<10
BB37617		0.22	<0.2	2.17	<2	<10	160	<0.5	<2	0.41	0.5	20	64	124	2.29	10
BB37618		0.22	<0.2	2.16	<2	<10	200	<0.5	<2	0.34	0.5	17	55	94	2.37	10
BB37619		0.18	<0.2	2.37	<2	<10	120	<0.5	<2	0.40	0.5	22	39	139	1.94	<10
BB37620		0.14	<0.2	1.83	3	<10	120	<0.5	<2	0.27	<0.5	10	37	67	1.48	<10
BB37621		<0.02	<0.2	1.44	<2	<10	80	<0.5	<2	0.23	0.5	6	37	31	1.26	10
BB37622		<0.02	<0.2	2.39	<2	<10	140	<0.5	<2	0.40	<0.5	12	53	68	2.00	10
BB37623		0.18	<0.2	1.63	<2	<10	80	<0.5	<2	0.23	<0.5	13	44	69	2.04	<10
BB37624		<0.02	<0.2	1.76	2	<10	90	<0.5	<2	0.24	<0.5	17	49	100	1.93	<10
BB37625		0.20	<0.2	1.87	<2	<10	120	<0.5	<2	0.32	0.5	31	53	122	2.52	<10
BB37626		0.16	<0.2	1.49	<2	<10	60	<0.5	<2	0.15	<0.5	7	80	56	1.02	<10
BB37627		0.24	<0.2	3.93	<2	<10	290	<0.5	<2	0.71	<0.5	35	531	269	3.24	10
BB37628		0.20	<0.2	2.51	<2	<10	150	<0.5	<2	0.29	<0.5	18	207	114	1.62	<10
BB37629		0.28	<0.2	3.11	2	<10	90	<0.5	<2	0.27	<0.5	48	331	397	3.08	10
BB37630		0.26	<0.2	3.41	<2	<10	90	<0.5	<2	0.72	<0.5	23	289	189	1.86	10
BB37631		0.38	<0.2	4.46	<2	<10	110	<0.5	<2	0.66	<0.5	16	257	108	1.41	10
BB37632		0.26	<0.2	1.88	<2	<10	130	<0.5	<2	0.25	<0.5	20	167	117	1.53	<10
BB37633		0.26	<0.2	1.75	2	<10	90	<0.5	<2	0.27	<0.5	11	64	79	1.54	<10
BB37634		<0.02	<0.2	2.43	<2	<10	120	<0.5	<2	0.40	<0.5	18	188	101	2.19	10
BB37635		0.24	<0.2	1.89	<2	<10	60	<0.5	<2	0.19	<0.5	9	34	62	1.24	<10
BB37636		0.20	<0.2	2.45	<2	<10	110	<0.5	<2	0.53	0.7	46	50	147	2.53	<10
BB37637		0.24	<0.2	1.82	2	<10	70	<0.5	<2	0.23	0.5	10	32	65	1.52	<10
BB37638		<0.02	<0.2	1.70	<2	<10	80	<0.5	<2	0.27	<0.5	10	34	78	1.44	<10
BB37639		0.26	<0.2	2.01	4	<10	90	0.6	<2	0.34	<0.5	15	36	77	1.91	<10
BB37640		<0.02	<0.2	1.89	<2	<10	110	0.8	<2	0.30	<0.5	21	43	85	2.25	10
BB37641		<0.02	0.2	3.00	<2	<10	510	0.8	<2	0.47	0.5	18	68	119	2.81	10
BB37642		0.28	<0.2	1.46	<2	<10	50	<0.5	<2	0.29	<0.5	8	42	44	1.35	<10
BB37643		0.14	<0.2	2.51	<2	<10	150	0.8	<2	0.57	<0.5	16	58	108	2.32	10
BB37644		0.24	<0.2	1.11	<2	<10	70	<0.5	<2	0.27	0.5	8	30	68	1.50	<10
BB37645		0.20	<0.2	1.21	<2	<10	70	<0.5	<2	0.22	0.7	7	29	58	1.46	<10
BB37646		0.24	0.2	2.18	3	<10	90	0.6	<2	0.35	<0.5	13	43	86	1.96	10
BB37647		0.30	<0.2	1.73	<2	<10	80	<0.5	<2	0.30	0.5	14	49	104	1.52	<10
BB37648		0.26	0.5	3.19	<2	<10	290	1.7	<2	0.20	0.5	17	62	76	4.13	10
BB37649		0.24	0.5	2.69	<2	<10	230	1.2	<2	0.16	0.9	16	73	75	3.70	10
BB37650		<0.02	0.7	2.78	<2	<10	160	1.1	<2	0.17	0.7	17	67	94	2.66	10
BB37651		0.28	0.4	2.70	<2	<10	220	0.8	<2	0.20	0.7	12	111	78	3.00	10

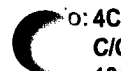


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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 3 - A
Tests : 5 (A - C)
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB37652		0.24	0.4	2.41	<2	<10	200	0.7	<2	0.12	0.7	12	66	56	3.28	10
BB37653		0.30	0.5	3.26	<2	<10	360	1.6	<2	0.17	1.0	16	68	62	4.02	10
BB37654		0.28	0.5	3.45	<2	<10	440	0.9	<2	0.27	1.3	18	120	104	3.78	10
BB37655		0.30	0.5	2.30	2	<10	110	0.5	<2	0.24	0.9	10	90	93	1.72	10
BB37662		0.34	<0.2	3.76	<2	<10	60	<0.5	<2	0.26	<0.5	28	466	518	6.54	10
BB37697		0.14	0.2	1.36	3	<10	360	0.7	<2	1.02	<0.5	11	122	39	2.43	<10
BB37698		0.24	<0.2	1.93	<2	<10	80	0.5	<2	0.24	<0.5	7	56	39	1.78	<10
BB37699		0.26	<0.2	1.11	<2	<10	50	<0.5	<2	0.08	<0.5	9	34	38	2.81	10
BB37700		0.22	<0.2	1.21	<2	<10	90	0.6	<2	0.08	<0.5	11	46	43	3.15	10
BB37701		0.26	<0.2	1.30	<2	<10	170	<0.5	<2	0.45	<0.5	9	59	70	1.84	<10
BB37702		0.28	<0.2	0.96	<2	<10	50	<0.5	<2	0.09	<0.5	6	31	28	1.64	<10
BB37703		0.18	<0.2	0.75	<2	<10	50	<0.5	<2	0.10	<0.5	16	55	34	2.16	10
BB37704		0.32	<0.2	1.61	<2	<10	40	<0.5	<2	0.10	<0.5	15	29	93	3.14	10
BB37705		0.24	<0.2	0.55	<2	<10	20	<0.5	<2	0.04	<0.5	4	32	37	1.53	<10
BB37706		<0.02	0.2	1.23	<2	<10	60	<0.5	<2	0.07	<0.5	13	48	50	2.46	10
BB37707		0.20	<0.2	1.16	<2	<10	150	0.8	<2	0.13	1.0	7	30	22	2.48	<10
BB37708		0.18	0.2	1.03	<2	<10	40	<0.5	<2	0.08	<0.5	3	19	22	1.20	<10
BB37709		0.30	<0.2	1.52	<2	<10	90	0.5	<2	0.12	<0.5	16	79	64	2.54	<10
BB37710		0.28	<0.2	1.58	<2	<10	70	<0.5	<2	0.12	<0.5	14	71	51	2.45	<10
BB37711		0.28	<0.2	1.25	2	<10	220	1.7	<2	0.22	<0.5	11	61	50	3.36	<10
BB37712		0.22	<0.2	0.93	<2	<10	50	<0.5	<2	0.12	<0.5	9	45	42	1.90	<10
BB37713		0.26	<0.2	1.43	<2	<10	70	<0.5	<2	0.17	<0.5	17	68	65	2.33	<10
BB37714		0.20	0.3	0.62	<2	<10	30	<0.5	<2	0.06	<0.5	3	26	22	0.91	<10
BB37715		0.28	<0.2	3.16	<2	<10	220	1.5	<2	0.16	<0.5	21	76	62	4.18	10
BB37716		0.24	<0.2	1.26	<2	<10	250	<0.5	<2	0.02	<0.5	10	38	16	2.61	10
BB37717		<0.02	<0.2	2.13	<2	<10	340	0.6	<2	0.61	<0.5	23	91	102	3.82	10
BB37718		0.40	<0.2	1.81	<2	<10	390	2.2	<2	0.56	<0.5	16	57	76	2.65	<10
BB37719		0.14	<0.2	1.16	4	<10	1020	1.8	<2	0.99	<0.5	12	41	82	2.45	<10
BB37720		0.36	<0.2	3.42	8	<10	300	0.8	<2	0.55	<0.5	68	129	237	6.78	10
BB37721		0.24	<0.2	0.94	3	<10	150	<0.5	<2	0.56	<0.5	30	177	30	3.19	<10
BB37722		0.26	<0.2	1.46	<2	<10	250	0.5	<2	0.24	2.0	31	225	36	3.99	<10
BB37723		0.26	<0.2	4.98	6	<10	280	1.2	<2	0.31	<0.5	20	173	86	4.46	10
BB37724		0.14	<0.2	0.92	<2	<10	100	<0.5	<2	0.49	<0.5	12	37	149	1.72	<10
BB37725		0.18	<0.2	0.53	<2	<10	110	<0.5	<2	0.38	<0.5	15	32	74	1.30	<10
BB37726		0.28	<0.2	0.78	<2	<10	120	0.6	<2	0.33	<0.5	9	42	66	1.20	<10
BB37727		0.24	<0.2	1.48	<2	<10	340	2.0	<2	0.49	<0.5	14	63	96	2.18	<10
BB37728		0.34	<0.2	1.69	<2	<10	460	3.1	<2	0.60	<0.5	16	72	94	3.01	<10
BB37729		0.24	<0.2	1.64	<2	<10	80	<0.5	<2	0.22	0.5	10	57	52	1.86	<10
BB37730		0.26	<0.2	1.63	<2	<10	70	<0.5	<2	0.35	<0.5	13	58	47	2.38	10
BB37731		0.28	<0.2	0.71	<2	<10	340	<0.5	<2	0.10	<0.5	5	34	21	2.02	10



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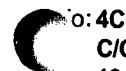
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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED Total # of

1016-510 W HASTINGS ST

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Page #: 4 - A

Pages: 5 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB37732		0.32	<0.2	1.44	2	<10	120	0.8	<2	0.15	<0.5	12	49	51	2.58	<10
BB37733		0.26	0.2	1.61	3	<10	120	0.8	<2	0.16	<0.5	11	45	55	2.60	<10
BB37734		0.22	<0.2	1.40	<2	<10	90	<0.5	<2	0.07	<0.5	8	77	20	2.21	10
BB37735		0.20	<0.2	2.41	<2	<10	160	0.7	<2	0.10	0.6	11	56	53	3.63	10
BB37736		0.20	<0.2	2.21	<2	<10	120	0.8	<2	0.20	0.5	13	69	59	3.38	10
BB37737		0.16	<0.2	0.51	<2	<10	40	<0.5	<2	0.05	<0.5	2	16	9	0.77	<10
BB37738		0.22	<0.2	1.07	<2	<10	60	<0.5	<2	0.12	<0.5	6	39	26	1.50	10
BB37739		0.20	<0.2	1.33	2	<10	100	0.5	<2	0.11	<0.5	9	48	50	2.30	10
BB37740		0.28	0.6	0.97	11	<10	400	1.3	<2	0.07	0.7	15	33	113	5.25	<10
BB37741		0.34	0.2	2.05	5	<10	480	1.5	<2	0.08	0.5	12	45	27	4.40	10
BB37742		0.32	<0.2	1.88	<2	<10	90	1.0	<2	0.10	<0.5	9	36	25	3.25	10
BB37743		0.20	<0.2	1.91	<2	<10	80	0.6	<2	0.11	0.5	8	43	26	2.37	10
BB37744		0.36	<0.2	3.62	<2	<10	260	1.3	<2	0.26	1.1	18	93	66	3.80	10
BB37745		0.34	0.2	1.56	<2	<10	220	0.9	<2	0.51	<0.5	31	85	106	3.05	<10
BB37746		0.38	0.2	1.54	2	<10	180	2.2	<2	0.41	<0.5	23	57	110	3.84	<10
BB37747		0.28	0.3	2.36	<2	10	370	7.0	<2	0.91	<0.5	38	109	178	4.64	<10
BB37748		0.20	<0.2	3.00	<2	<10	340	1.6	<2	0.13	<0.5	17	66	53	3.58	10
BB37749		0.22	0.2	1.56	<2	<10	200	1.8	<2	0.12	<0.5	17	60	62	4.10	10
BB37750		0.16	<0.2	1.08	2	<10	50	<0.5	<2	0.07	<0.5	11	81	24	2.52	10
M24372		0.24	<0.2	1.04	4	<10	70	<0.5	<2	0.38	<0.5	50	332	28	3.54	<10
M24373		0.20	<0.2	1.22	3	<10	100	<0.5	<2	0.25	<0.5	31	183	40	3.16	<10
M24374		0.24	<0.2	1.87	2	<10	150	0.5	<2	0.25	0.5	18	40	69	3.59	10
M24375		0.18	0.2	2.15	<2	<10	130	0.5	<2	0.28	<0.5	13	55	54	2.22	10
M24376		0.16	0.4	2.12	2	<10	140	0.6	<2	0.20	<0.5	10	36	52	1.65	<10
M24377		0.22	0.3	1.74	7	<10	230	0.5	<2	0.24	<0.5	11	47	57	2.37	10
M24378		0.22	0.2	3.17	2	<10	280	0.6	<2	0.51	<0.5	22	82	93	3.13	10
M24379		0.28	0.5	1.57	8	<10	370	0.9	<2	0.25	0.5	14	55	55	3.05	10
M24380		0.24	0.4	1.06	11	<10	270	0.5	<2	0.04	0.9	9	45	55	2.84	10
M24381		0.22	0.5	1.82	12	<10	900	1.3	<2	0.19	<0.5	20	58	85	3.86	10
M24382		0.22	<0.2	2.42	3	<10	250	0.6	<2	0.56	<0.5	32	124	111	2.58	10
M24383		0.24	0.2	1.84	2	<10	160	0.6	<2	0.42	<0.5	16	83	76	2.07	10
M24384		0.18	0.2	1.94	<2	<10	140	0.9	<2	0.46	<0.5	12	62	73	2.00	10
M24385		0.16	<0.2	2.06	<2	<10	180	0.7	<2	0.47	<0.5	15	78	87	2.38	10
M24386		0.20	<0.2	2.14	4	<10	60	0.6	<2	0.17	<0.5	7	38	38	1.32	<10
M24391		0.22	<0.2	1.46	4	10	380	1.8	<2	0.83	<0.5	29	111	76	5.44	10
M24392		0.24	0.2	2.27	3	<10	60	<0.5	<2	0.54	<0.5	20	106	78	2.44	10
M24393		0.22	<0.2	2.72	<2	<10	100	0.7	<2	0.21	<0.5	17	73	66	2.61	10
M24394		0.22	<0.2	2.33	3	<10	130	0.7	<2	0.23	<0.5	15	61	68	2.18	10
M24395		0.26	0.5	2.06	2	<10	210	1.1	<2	0.21	0.5	14	73	50	3.56	10
M24396		0.16	<0.2	0.69	4	<10	190	1.0	<2	0.05	0.6	12	39	64	3.21	10



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1016-510 W HASTINGS ST
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Page #: 5 - A
Pages : 5 (A - C)
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
M24397		0.26	<0.2	1.52	<2	10	240	0.9	<2	0.31	<0.5	21	86	62	3.32	10
M24398		0.26	0.2	1.84	3	<10	120	0.6	<2	0.14	<0.5	11	69	43	2.74	10
M24399		0.26	0.2	2.39	3	<10	90	0.9	<2	0.13	<0.5	12	58	54	2.89	10
M24400		0.18	0.2	2.02	6	<10	230	1.2	<2	0.34	<0.5	19	66	83	2.84	10
M24401		0.22	0.4	1.82	3	<10	110	0.6	<2	0.10	<0.5	8	56	33	3.27	10
M24402		0.16	<0.2	1.32	5	<10	100	0.7	<2	0.11	<0.5	11	63	40	3.70	10
M24403		0.16	0.4	1.29	3	<10	200	0.8	<2	0.32	<0.5	9	50	29	2.62	10
M24404		0.16	0.2	0.88	<2	<10	70	<0.5	<2	0.11	<0.5	5	40	13	1.30	<10
M24405		0.18	<0.2	1.18	2	<10	150	0.7	<2	0.18	<0.5	12	90	27	2.69	10
M24406		0.18	<0.2	1.07	<2	<10	150	1.5	<2	0.11	0.7	11	56	31	2.54	10
M24407		0.24	0.3	1.27	4	<10	520	1.5	<2	0.59	1.6	11	56	49	2.77	<10
M24408		0.30	0.8	1.71	9	<10	320	1.6	<2	0.20	0.5	14	68	36	3.43	10
M24409		0.24	0.3	2.12	5	<10	170	1.5	<2	0.12	<0.5	21	93	37	4.08	10
M24410		0.22	0.5	3.07	8	<10	140	1.2	<2	0.13	<0.5	21	269	46	4.62	10
M24411		0.22	0.7	1.62	6	<10	240	1.5	<2	0.27	0.5	14	64	48	3.07	10
M24412		0.28	<0.2	1.12	<2	<10	100	<0.5	<2	0.19	<0.5	9	52	29	1.92	10
M24413		0.28	0.3	1.60	2	<10	210	1.2	<2	0.45	<0.5	11	66	34	2.64	10
M24414		<0.02	<0.2	1.32	<2	<10	140	0.6	<2	0.12	<0.5	8	50	38	3.24	10



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Page #: 2 - B

of Pages: 5 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Ti % 0.01
BB37612		<1	0.05	<10	0.93	198	1	0.04	61	390	4	0.04	<2	2	35	0.06
BB37613		<1	0.03	10	0.33	122	1	0.03	24	600	4	0.06	<2	1	14	0.04
BB37614		<1	0.20	10	1.08	572	1	0.04	52	750	7	0.05	<2	5	32	0.17
BB37615		<1	0.14	10	1.21	642	2	0.05	47	700	5	0.01	<2	9	34	0.13
BB37616		<1	0.06	<10	0.65	176	1	0.03	32	350	3	0.03	<2	3	15	0.10
BB37617		<1	0.14	10	0.96	276	1	0.03	50	520	4	0.04	<2	5	21	0.12
BB37618		<1	0.13	10	0.85	237	1	0.03	37	440	5	0.04	<2	5	27	0.13
BB37619		<1	0.05	10	0.55	192	1	0.05	48	610	4	0.08	<2	2	22	0.07
BB37620		1	0.05	<10	0.41	179	<1	0.04	25	640	5	0.10	<2	1	14	0.06
BB37621		<1	0.04	<10	0.29	108	1	0.03	19	420	5	0.05	<2	1	12	0.08
BB37622		<1	0.06	10	0.60	319	2	0.04	32	690	7	0.08	<2	2	20	0.06
BB37623		<1	0.04	10	0.51	169	1	0.02	34	460	4	0.05	<2	3	12	0.07
BB37624		<1	0.05	10	0.59	146	1	0.02	43	490	5	0.06	<2	2	14	0.06
BB37625		<1	0.14	10	0.71	322	1	0.02	58	630	5	0.03	<2	4	15	0.09
BB37626		<1	0.02	<10	0.43	63	1	0.03	30	320	3	0.04	<2	1	7	0.04
BB37627		<1	0.15	<10	1.89	88	2	0.06	222	140	3	0.04	<2	3	44	0.06
BB37628		<1	0.04	<10	1.02	110	1	0.04	79	230	3	0.03	<2	2	27	0.04
BB37629		<1	0.04	<10	1.55	176	2	0.03	112	310	4	0.04	<2	4	24	0.04
BB37630		<1	0.06	<10	1.42	187	1	0.06	95	290	3	0.04	<2	2	34	0.03
BB37631		<1	0.09	<10	1.18	116	1	0.06	76	300	4	0.02	<2	2	62	0.03
BB37632		<1	0.07	<10	1.01	157	1	0.02	76	330	2	0.03	<2	1	22	0.06
BB37633		<1	0.04	10	0.62	172	1	0.03	38	380	4	0.03	<2	2	16	0.06
BB37634		<1	0.05	<10	1.27	223	1	0.03	74	380	4	0.03	<2	2	31	0.06
BB37635		<1	0.03	<10	0.28	237	1	0.03	22	740	5	0.07	<2	1	12	0.04
BB37636		<1	0.06	<10	0.79	417	1	0.03	102	480	4	0.06	<2	4	31	0.06
BB37637		<1	0.04	<10	0.36	140	1	0.03	25	670	5	0.07	<2	1	13	0.05
BB37638		<1	0.04	<10	0.37	104	1	0.03	26	540	4	0.07	<2	1	15	0.05
BB37639		<1	0.06	10	0.50	391	1	0.03	33	630	8	0.05	<2	2	32	0.05
BB37640		<1	0.07	10	0.66	252	1	0.02	45	470	6	0.04	<2	4	22	0.09
BB37641		<1	0.27	10	1.00	441	1	0.04	41	570	7	0.07	<2	6	33	0.17
BB37642		<1	0.04	<10	0.41	128	1	0.03	21	400	4	0.05	<2	2	16	0.07
BB37643		<1	0.08	10	0.77	284	1	0.03	38	680	6	0.07	<2	3	34	0.09
BB37644		<1	0.05	<10	0.35	110	1	0.02	23	580	5	0.06	<2	1	14	0.07
BB37645		<1	0.05	<10	0.31	110	<1	0.02	20	560	4	0.06	<2	1	15	0.05
BB37646		<1	0.05	10	0.50	238	1	0.03	33	720	8	0.07	<2	2	26	0.04
BB37647		<1	0.05	<10	0.54	118	1	0.03	53	480	5	0.05	<2	2	14	0.07
BB37648		<1	0.82	10	1.00	351	4	0.03	41	700	16	0.20	<2	7	39	0.19
BB37649		<1	0.40	10	0.72	291	4	0.02	49	620	16	0.14	<2	4	42	0.11
BB37650		<1	0.21	10	0.86	248	4	0.02	50	450	11	0.09	<2	4	34	0.11
BB37651		<1	0.34	10	0.91	219	4	0.03	47	440	8	0.12	<2	5	27	0.13



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Page #: 3 - B
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB37652		<1	0.39	10	0.81	329	4	0.01	42	500	11	0.11	<2	4	23	0.14
BB37653		<1	0.81	10	1.42	370	8	0.02	83	540	14	0.20	<2	8	35	0.18
BB37654		<1	0.73	10	1.37	374	12	0.04	64	610	11	0.23	<2	9	32	0.20
BB37655		<1	0.09	10	0.61	207	2	0.02	40	790	7	0.14	<2	1	24	0.05
BB37662		<1	0.06	<10	1.94	163	2	0.02	97	200	4	0.08	<2	5	30	0.03
BB37697		<1	0.03	<10	0.70	493	1	0.02	85	950	5	0.08	<2	8	49	0.01
BB37698		<1	0.01	<10	0.25	198	1	0.03	23	820	3	0.05	<2	1	12	0.01
BB37699		<1	0.03	<10	0.33	189	1	0.01	25	470	7	0.03	<2	3	8	0.06
BB37700		<1	0.04	10	0.37	640	1	0.01	36	450	9	0.03	<2	3	6	0.08
BB37701		<1	0.05	10	0.49	174	1	0.03	48	460	5	0.04	<2	4	16	0.05
BB37702		<1	0.02	<10	0.26	149	1	0.01	21	560	6	0.03	<2	<1	5	0.02
BB37703		<1	0.02	<10	0.31	451	1	0.01	32	390	6	0.02	<2	2	5	0.05
BB37704		<1	0.02	<10	0.46	212	1	0.01	34	340	6	0.02	<2	4	6	0.05
BB37705		<1	0.01	<10	0.18	85	1	0.01	13	400	4	0.01	<2	2	3	0.03
BB37706		<1	0.04	10	0.48	216	2	0.01	43	340	15	0.04	<2	2	6	0.07
BB37707		<1	0.07	10	0.46	307	2	0.01	23	610	13	0.03	<2	4	11	0.06
BB37708		<1	0.01	<10	0.13	68	1	0.01	9	530	5	0.03	<2	<1	5	0.01
BB37709		<1	0.04	10	0.72	269	1	0.01	79	250	9	0.01	<2	4	7	0.05
BB37710		<1	0.04	<10	0.62	355	1	0.01	67	470	8	0.02	<2	3	7	0.04
BB37711		<1	0.04	10	0.31	657	1	0.01	43	860	6	0.06	<2	2	11	0.02
BB37712		<1	0.01	<10	0.48	170	1	0.01	43	300	7	0.02	<2	3	6	0.04
BB37713		<1	0.03	<10	0.86	307	2	0.01	106	320	10	0.02	<2	4	9	0.05
BB37714		<1	0.01	<10	0.13	83	1	0.01	16	540	6	0.05	<2	<1	4	0.04
BB37715		<1	0.32	20	1.63	647	7	0.02	56	790	27	0.04	<2	10	10	0.13
BB37716		<1	0.12	10	0.32	3640	3	<0.01	17	510	17	0.05	<2	3	6	0.07
BB37717		<1	0.08	10	1.03	725	2	0.02	61	640	5	0.03	<2	6	17	0.06
BB37718		<1	0.03	10	0.47	413	1	0.03	47	850	3	0.06	<2	5	24	0.03
BB37719		<1	0.03	10	0.48	671	1	0.02	51	1060	2	0.13	<2	5	27	0.01
BB37720		<1	0.04	<10	2.65	1840	2	0.01	97	400	5	0.01	<2	22	25	0.01
BB37721		<1	0.03	10	1.78	588	2	0.01	301	900	7	0.07	<2	3	21	0.03
BB37722		<1	0.10	10	3.17	589	2	0.02	500	640	19	0.03	<2	8	16	0.09
BB37723		1	0.15	10	3.09	879	1	0.03	203	440	70	0.03	2	13	23	0.22
BB37724		<1	0.01	<10	0.36	230	1	0.01	51	950	3	0.08	<2	2	12	0.02
BB37725		<1	0.01	<10	0.30	363	1	0.01	37	420	<2	0.03	<2	3	8	0.03
BB37726		<1	0.02	<10	0.36	106	<1	0.02	32	360	<2	0.03	<2	4	8	0.04
BB37727		<1	0.04	<10	0.50	264	1	0.03	45	530	5	0.05	<2	8	15	0.03
BB37728		<1	0.06	<10	0.58	342	1	0.03	53	490	3	0.03	<2	9	16	0.03
BB37729		<1	0.04	<10	0.57	136	1	0.02	40	400	5	0.03	<2	3	8	0.08
BB37730		<1	0.14	<10	1.13	196	1	0.02	28	450	3	0.02	<2	4	7	0.23
BB37731		<1	0.02	10	0.14	521	1	0.01	17	320	29	0.02	<2	2	11	0.08



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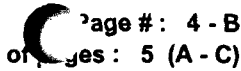


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Project: 4C West

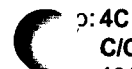
CERTIFICATE OF ANALYSIS

VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB37732		<1	0.05	10	0.48	318	1	0.01	37	390	18	0.01	<2	3	8	0.06
BB37733		<1	0.06	10	0.46	392	2	0.02	31	670	16	0.03	<2	3	9	0.05
BB37734		<1	0.04	10	0.58	274	1	0.01	48	460	18	0.04	<2	1	7	0.05
BB37735		<1	0.19	10	0.71	328	2	0.01	37	450	18	0.03	<2	5	10	0.13
BB37736		<1	0.05	10	0.68	406	3	0.01	40	520	29	0.04	<2	4	10	0.08
BB37737		<1	0.02	<10	0.10	54	1	0.01	7	220	7	0.02	<2	<1	5	0.04
BB37738		<1	0.03	<10	0.35	168	1	0.02	19	400	7	0.03	<2	1	7	0.05
BB37739		<1	0.06	10	0.42	297	2	0.01	32	480	10	0.02	<2	2	7	0.07
BB37740		<1	0.07	20	0.20	993	4	<0.01	63	600	80	0.04	<2	8	17	0.02
BB37741		<1	0.09	20	0.30	981	1	<0.01	34	870	25	0.05	<2	3	17	0.01
BB37742		<1	0.09	10	0.59	374	2	0.01	24	630	22	0.03	<2	5	7	0.05
BB37743		<1	0.07	10	0.69	250	2	0.01	34	530	17	0.05	<2	2	7	0.06
BB37744		<1	0.20	20	2.01	638	5	0.02	73	610	74	0.04	<2	10	15	0.17
BB37745		<1	0.08	10	0.79	619	<1	0.03	119	580	3	0.01	<2	10	23	0.06
BB37746		<1	0.06	10	0.49	548	<1	0.01	56	510	3	0.01	<2	13	14	0.03
BB37747		<1	0.04	10	0.44	1050	<1	0.08	66	530	<2	0.01	<2	22	38	0.01
BB37748		<1	0.14	20	0.55	1435	2	0.01	35	1460	9	0.14	3	2	11	0.06
BB37749		<1	0.12	10	0.44	1230	2	0.01	49	820	9	0.04	<2	7	6	0.10
BB37750		<1	0.04	10	0.54	254	1	0.01	61	380	9	0.03	<2	2	5	0.06
M24372		<1	0.04	10	5.48	756	<1	0.02	761	640	2	0.05	<2	6	17	0.04
M24373		<1	0.08	10	2.99	561	<1	0.02	358	690	5	0.02	<2	5	11	0.06
M24374		<1	0.17	10	0.71	585	<1	0.01	37	850	5	0.02	<2	7	7	0.11
M24375		<1	0.04	10	0.67	331	<1	0.02	36	590	4	0.04	<2	3	13	0.04
M24376		<1	0.04	10	0.43	269	<1	0.02	21	700	5	0.06	<2	1	12	0.04
M24377		<1	0.07	10	0.64	242	<1	0.01	30	500	4	0.02	<2	4	11	0.09
M24378		<1	0.24	10	1.15	730	<1	0.01	47	570	3	0.02	2	8	34	0.18
M24379		<1	0.16	20	0.64	754	1	<0.01	52	550	6	0.02	<2	6	13	0.12
M24380		<1	0.18	10	0.33	757	2	<0.01	36	770	22	0.06	<2	2	8	0.07
M24381		<1	0.39	20	0.73	1540	1	<0.01	70	810	11	0.01	3	9	18	0.14
M24382		<1	0.17	10	1.45	404	<1	0.03	109	820	<2	0.02	2	6	20	0.15
M24383		<1	0.09	10	0.87	383	<1	0.03	66	710	<2	0.04	<2	3	16	0.10
M24384		<1	0.06	10	0.69	299	<1	0.03	40	730	2	0.05	<2	2	20	0.07
M24385		<1	0.06	10	0.85	368	<1	0.04	51	730	<2	0.04	<2	4	16	0.08
M24386		<1	0.03	<10	0.25	358	<1	0.01	22	1260	2	0.13	<2	<1	10	0.01
M24391		<1	0.04	10	0.42	1340	<1	0.02	93	1000	2	0.07	<2	17	24	0.02
M24392		<1	0.06	<10	1.05	404	<1	0.03	71	650	2	0.06	<2	4	15	0.15
M24393		<1	0.07	10	0.74	558	<1	0.02	48	700	4	0.06	<2	3	11	0.12
M24394		<1	0.08	10	0.59	743	<1	0.02	43	760	2	0.07	2	2	12	0.09
M24395		<1	0.10	30	0.52	965	2	0.01	57	950	10	0.04	2	5	13	0.10
M24396		<1	0.05	10	0.12	850	1	<0.01	52	570	9	0.04	2	3	13	0.04



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Page # : 5 - B
Pages : 5 (A - C)
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
M24397		<1	0.05	10	0.45	923	<1	0.02	58	660	3	0.05	<2	7	16
M24398		<1	0.05	10	0.60	533	2	0.01	36	570	5	0.05	<2	3	9
M24399		<1	0.06	10	0.45	644	1	0.01	37	800	7	0.05	<2	2	8
M24400		1	0.13	10	0.78	736	1	0.02	64	870	9	0.02	<2	7	14
M24401		<1	0.05	10	0.33	300	1	0.01	24	660	8	0.05	2	2	8
M24402		<1	0.06	10	0.36	517	2	0.01	36	460	7	0.04	<2	3	9
M24403		<1	0.05	10	0.41	687	1	0.01	29	1060	7	0.07	<2	2	12
M24404		<1	0.03	<10	0.18	184	<1	0.01	17	520	<2	0.03	<2	1	7
M24405		<1	0.05	10	0.39	585	1	0.01	46	660	8	0.06	<2	1	9
M24406		<1	0.05	10	0.27	843	1	0.01	34	770	31	0.08	2	1	9
M24407		<1	0.05	20	0.50	519	1	0.01	65	980	40	0.09	<2	4	27
M24408		<1	0.13	10	0.59	694	1	0.01	38	740	17	0.04	2	5	12
M24409		1	0.09	10	0.97	600	1	0.01	126	430	11	0.03	<2	5	10
M24410		<1	0.15	10	1.09	616	3	0.01	52	540	26	0.04	<2	8	11
M24411		<1	0.07	30	0.57	528	1	0.01	55	800	28	0.06	2	3	14
M24412		<1	0.03	10	0.35	231	1	0.01	37	520	5	0.04	<2	1	10
M24413		<1	0.07	10	0.60	262	<1	0.01	50	1040	5	0.07	<2	5	15
M24414		<1	0.06	10	0.35	352	1	0.01	29	510	28	0.04	<2	3	8



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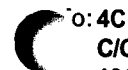
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Page #: 2 - C

Pages: 5 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS

VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41 TI ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
BB37612		<10	<10	38	<10	45
BB37613		<10	<10	30	<10	29
BB37614		<10	<10	78	<10	48
BB37615		<10	<10	72	<10	53
BB37616		<10	<10	49	<10	28
BB37617		<10	<10	63	<10	51
BB37618		<10	<10	66	<10	42
BB37619		<10	<10	41	<10	42
BB37620		<10	<10	38	<10	32
BB37621		<10	<10	34	<10	20
BB37622		<10	<10	53	<10	40
BB37623		<10	<10	50	<10	49
BB37624		<10	<10	43	<10	50
BB37625		<10	<10	61	<10	74
BB37626		<10	<10	26	<10	21
BB37627		<10	<10	97	<10	23
BB37628		<10	<10	46	<10	29
BB37629		<10	<10	104	<10	26
BB37630		<10	<10	56	<10	27
BB37631		<10	<10	52	<10	21
BB37632		<10	<10	41	<10	49
BB37633		<10	<10	38	<10	34
BB37634		<10	<10	53	<10	39
BB37635		<10	<10	26	<10	30
BB37636		<10	<10	65	<10	176
BB37637		<10	<10	32	<10	30
BB37638		<10	<10	32	<10	25
BB37639		<10	<10	43	<10	43
BB37640		<10	<10	57	<10	57
BB37641		<10	<10	84	<10	46
BB37642		<10	<10	36	<10	21
BB37643		<10	<10	65	<10	40
BB37644		<10	<10	39	<10	35
BB37645		<10	<10	38	<10	32
BB37646		<10	<10	44	<10	41
BB37647		<10	<10	34	<10	50
BB37648		<10	<10	82	<10	86
BB37649		<10	<10	78	<10	75
BB37650		<10	<10	76	<10	91
BB37651		<10	<10	94	<10	80



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Page #: 3 - C

Total # of pages: 5 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS

VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB37652		<10	<10	82	<10	76
BB37653		<10	<10	116	<10	162
BB37654		<10	<10	202	<10	174
BB37655		<10	<10	55	<10	53
BB37662		<10	<10	108	<10	27
BB37697		<10	<10	43	<10	67
BB37698		<10	<10	32	<10	22
BB37699		<10	<10	63	<10	39
BB37700		<10	<10	94	<10	71
BB37701		<10	<10	41	<10	55
BB37702		<10	<10	39	<10	29
BB37703		<10	<10	70	<10	31
BB37704		<10	<10	62	<10	61
BB37705		<10	<10	57	<10	53
BB37706		<10	<10	68	<10	73
BB37707		<10	<10	48	<10	120
BB37708		<10	<10	31	<10	13
BB37709		<10	<10	60	<10	59
BB37710		<10	<10	56	<10	53
BB37711		<10	<10	76	<10	48
BB37712		<10	<10	51	<10	37
BB37713		<10	<10	52	<10	60
BB37714		<10	<10	23	<10	17
BB37715		<10	<10	108	<10	120
BB37716		<10	<10	66	<10	69
BB37717		<10	<10	97	<10	49
BB37718		<10	<10	62	<10	37
BB37719		<10	<10	60	<10	29
BB37720		<10	<10	189	<10	302
BB37721		<10	<10	45	<10	39
BB37722		<10	<10	62	<10	142
BB37723		<10	<10	123	<10	321
BB37724		<10	<10	28	<10	23
BB37725		<10	<10	24	<10	13
BB37726		<10	<10	33	<10	15
BB37727		<10	<10	63	<10	41
BB37728		<10	<10	63	<10	41
BB37729		<10	<10	44	<10	31
BB37730		<10	<10	64	<10	32
BB37731		<10	<10	85	<10	75



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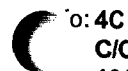
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1016-510 W HASTINGS ST

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Page #: 4 - C

Pages: 5 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS

VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
BB37732		<10	<10	57	<10	90
BB37733		<10	<10	57	<10	65
BB37734		<10	<10	58	<10	64
BB37735		<10	<10	101	<10	102
BB37736		<10	<10	71	<10	118
BB37737		<10	<10	27	<10	16
BB37738		<10	<10	46	<10	30
BB37739		<10	<10	63	<10	52
BB37740		<10	<10	61	<10	178
BB37741		<10	<10	58	<10	152
BB37742		<10	<10	63	<10	91
BB37743		<10	<10	53	<10	78
BB37744		<10	<10	114	<10	308
BB37745		<10	<10	77	<10	53
BB37746		<10	<10	101	<10	50
BB37747		<10	<10	101	<10	43
BB37748		<10	<10	93	<10	74
BB37749		<10	<10	98	<10	98
BB37750		<10	<10	59	<10	54
M24372		<10	<10	43	<10	46
M24373		<10	<10	57	<10	68
M24374		<10	<10	82	<10	77
M24375		<10	<10	57	<10	39
M24376		<10	<10	38	<10	29
M24377		<10	<10	68	<10	41
M24378		<10	<10	104	<10	71
M24379		<10	<10	81	<10	87
M24380		<10	<10	74	<10	85
M24381		<10	<10	105	<10	120
M24382		<10	<10	70	<10	43
M24383		<10	<10	58	<10	42
M24384		<10	<10	57	<10	38
M24385		<10	<10	62	<10	41
M24386		<10	<10	27	<10	25
M24391		<10	<10	106	<10	56
M24392		<10	<10	64	<10	36
M24393		<10	<10	69	<10	59
M24394		<10	<10	59	<10	63
M24395		<10	<10	94	<10	108
M24396		<10	<10	77	<10	110

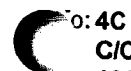


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Page #: 5 - C
Pages : 5 (A - C)
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031311

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
M24397		<10	<10	71	<10	54
M24398		<10	<10	80	<10	60
M24399		<10	<10	67	<10	69
M24400		<10	<10	71	<10	88
M24401		<10	<10	67	<10	50
M24402		<10	<10	85	<10	71
M24403		<10	<10	68	<10	67
M24404		<10	<10	36	<10	27
M24405		<10	<10	66	<10	53
M24406		<10	<10	62	<10	87
M24407		<10	<10	53	<10	316
M24408		<10	<10	96	<10	126
M24409		<10	<10	76	<10	102
M24410		<10	<10	170	<10	160
M24411		<10	<10	77	<10	162
M24412		<10	<10	58	<10	35
M24413		<10	<10	59	<10	83
M24414		<10	<10	86	<10	134



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Page #: 1
Date: 26-Aug-2003
Account: FOURC

CERTIFICATE VA03031310

Project : 4C West

P.O. No:

This report is for 120 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 19-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page #: 2 - A
Pages : 4 (A - C)
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031310

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB09822		0.46	<0.2	2.84	9	<10	330	<0.5	<2	0.60	<0.5	74	146	371	5.17	10
BB09890		0.28	0.2	0.62	<2	<10	280	1.9	<2	3.83	<0.5	158	74	153	9.38	<10
BB09891		0.32	0.2	1.34	52	<10	150	0.8	<2	0.18	<0.5	22	88	67	4.38	<10
BB09974		0.24	0.6	6.44	11	<10	70	2.1	<2	3.00	<0.5	79	182	204	8.57	20
BB09975		0.22	0.2	3.82	<2	<10	110	0.9	<2	1.29	<0.5	29	95	52	6.32	20
BB33960		0.22	0.7	2.57	<2	<10	130	3.2	<2	1.87	0.9	13	76	26	3.25	10
BB33962		0.30	1.2	0.81	60	<10	60	2.3	<2	1.28	<0.5	51	31	82	11.00	<10
BB33963		0.32	<0.2	3.05	<2	<10	240	5.5	<2	3.06	<0.5	32	120	48	5.49	10
BB33971		0.24	<0.2	2.25	<2	<10	150	2.1	<2	0.73	1.0	11	35	29	3.79	10
BB33978		0.28	<0.2	2.87	<2	<10	140	0.7	<2	0.88	<0.5	28	158	164	3.63	<10
BB37502		0.24	<0.2	2.60	<2	<10	140	0.5	<2	0.89	<0.5	27	86	154	2.79	10
BB37503		0.24	<0.2	1.82	<2	<10	140	<0.5	<2	0.32	<0.5	15	54	66	2.87	<10
BB37504		0.22	<0.2	1.02	<2	<10	100	<0.5	<2	0.17	<0.5	31	211	25	3.39	<10
BB37505		0.18	<0.2	1.88	<2	<10	30	<0.5	<2	0.14	<0.5	55	606	23	3.64	<10
BB37506		0.20	<0.2	0.94	<2	<10	100	<0.5	<2	0.15	<0.5	49	320	28	3.65	<10
BB37507		0.18	<0.2	0.96	<2	<10	140	<0.5	<2	0.14	<0.5	86	336	18	4.39	<10
BB37508		0.24	<0.2	1.14	<2	<10	80	<0.5	<2	0.10	<0.5	78	326	22	3.86	<10
BB37509		0.26	0.2	1.76	27	<10	140	0.7	<2	0.20	<0.5	18	178	59	3.34	<10
BB37510		0.32	0.2	1.74	54	<10	180	0.7	<2	0.34	<0.5	24	211	72	3.80	<10
BB37511		0.26	0.2	1.47	122	<10	130	0.8	<2	0.34	<0.5	31	267	73	3.98	<10
BB37512		0.26	<0.2	1.40	141	<10	200	0.9	<2	0.33	<0.5	42	211	78	4.50	<10
BB37513		0.22	0.2	1.39	214	<10	200	0.9	<2	0.33	<0.5	27	185	63	4.70	10
BB37514		0.22	<0.2	1.64	<2	<10	130	0.6	<2	0.52	<0.5	13	49	68	1.96	<10
BB37515		0.26	<0.2	1.66	13	<10	850	1.0	<2	0.34	<0.5	32	191	73	5.16	<10
BB37516		0.24	<0.2	1.79	3	<10	640	1.0	<2	0.21	<0.5	19	98	82	4.82	10
BB37517		0.28	<0.2	2.68	<2	<10	260	0.6	<2	0.76	<0.5	22	112	124	2.99	10
BB37518		0.28	<0.2	3.69	<2	<10	150	1.0	<2	0.53	<0.5	47	136	87	6.27	10
BB37519		0.24	<0.2	2.50	<2	<10	310	<0.5	<2	0.57	<0.5	19	69	108	4.02	10
BB37520		0.22	<0.2	2.68	<2	<10	330	0.5	<2	0.65	<0.5	19	62	90	5.20	10
BB37521		0.18	<0.2	2.52	<2	<10	290	0.5	<2	0.70	<0.5	24	107	68	4.50	10
BB37522		0.14	<0.2	1.24	<2	<10	150	<0.5	<2	0.48	<0.5	28	203	43	3.28	<10
BB37523		0.22	<0.2	0.79	<2	10	120	<0.5	<2	0.13	<0.5	53	429	30	3.81	<10
BB37524		0.20	<0.2	0.71	<2	10	160	0.5	<2	0.31	<0.5	85	844	32	6.41	<10
BB37525		0.24	0.3	2.05	12	<10	240	0.7	<2	0.53	<0.5	30	327	29	3.62	10
BB37526		0.22	0.2	2.84	3	<10	170	<0.5	<2	0.51	<0.5	32	58	269	3.62	10
BB37527		0.26	<0.2	3.34	<2	<10	450	0.6	<2	0.63	<0.5	25	90	120	3.95	10
BB37528		0.24	0.2	2.82	<2	<10	670	0.9	<2	0.57	<0.5	26	117	99	4.54	10
BB37529		0.22	0.2	1.34	5	<10	520	0.8	<2	0.19	<0.5	18	74	90	4.22	10
BB37530		0.26	0.2	3.23	4	<10	280	0.8	<2	0.66	<0.5	30	160	108	3.49	10
BB37531		0.24	<0.2	3.01	5	<10	500	0.8	<2	0.65	<0.5	19	82	98	3.47	10



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1016-510 W HASTINGS ST
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Page #: 3 - A

Date : 26-Aug-2003

Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS

VA03031310

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB37532		0.24	<0.2	2.71	2	<10	410	0.7	<2	0.43	<0.5	17	83	84	3.05	10
BB37533		0.18	<0.2	1.86	4	<10	230	0.5	<2	0.33	<0.5	19	70	56	3.07	10
BB37534		0.24	0.2	1.08	2	<10	130	<0.5	<2	0.19	<0.5	26	101	34	2.51	<10
BB37535		0.24	0.4	1.36	6	<10	200	0.5	<2	0.29	<0.5	71	481	41	5.85	<10
BB37536		0.24	0.5	1.17	<2	<10	160	<0.5	<2	0.15	<0.5	45	264	20	3.63	10
BB37537		0.24	<0.2	1.76	5	<10	200	0.5	<2	0.26	<0.5	24	126	38	3.21	10
BB37538		0.24	<0.2	1.54	<2	<10	180	<0.5	<2	0.34	<0.5	18	61	87	2.86	10
BB37539		0.24	<0.2	1.47	<2	<10	180	<0.5	<2	0.42	<0.5	18	44	68	2.56	10
BB37540		0.26	<0.2	1.52	2	<10	150	0.7	<2	0.36	<0.5	20	36	80	2.78	<10
BB37541		0.32	0.3	2.02	3	<10	180	0.9	<2	0.44	<0.5	23	59	93	4.29	10
BB37542		0.26	<0.2	0.92	<2	<10	110	0.5	<2	0.23	<0.5	31	33	164	3.36	<10
BB37543		0.24	<0.2	1.36	5	<10	140	0.5	<2	0.39	<0.5	35	74	174	2.57	<10
BB37544		0.22	0.3	1.10	5	<10	260	<0.5	<2	0.19	<0.5	35	169	34	2.86	<10
BB37545		0.20	<0.2	2.97	2	<10	380	0.8	<2	0.11	<0.5	32	618	13	2.86	10
BB37546		0.14	<0.2	1.71	4	<10	310	<0.5	<2	0.72	<0.5	21	94	70	2.93	10
BB37547		0.34	<0.2	2.34	<2	<10	220	<0.5	<2	0.62	<0.5	28	109	152	3.12	10
BB37548		0.32	<0.2	0.74	<2	<10	70	<0.5	<2	0.21	<0.5	10	47	76	2.75	<10
BB37549		0.24	<0.2	1.34	2	<10	180	0.7	<2	0.29	<0.5	7	43	67	2.63	<10
BB37550		0.32	<0.2	1.16	<2	<10	160	2.0	<2	0.39	<0.5	32	84	120	5.43	<10
BB37551		0.24	0.2	2.88	2	<10	400	1.4	<2	0.63	<0.5	23	63	140	5.27	10
BB37552		0.40	<0.2	1.24	<2	<10	170	1.0	<2	0.51	<0.5	14	53	63	2.69	<10
BB37553		0.26	0.2	0.92	<2	<10	130	0.5	<2	0.40	<0.5	47	31	88	2.58	<10
BB37554		0.24	<0.2	1.78	2	<10	180	<0.5	<2	0.16	<0.5	20	105	55	3.72	10
BB37555		0.30	<0.2	0.85	<2	<10	90	<0.5	<2	0.13	<0.5	35	158	27	2.72	<10
BB37556		0.20	<0.2	2.69	<2	<10	120	<0.5	<2	0.39	<0.5	15	106	66	2.17	10
BB37557		0.14	0.2	1.94	2	<10	300	0.7	<2	0.70	<0.5	14	55	82	2.99	10
BB37558		0.30	<0.2	1.53	<2	<10	170	0.8	<2	0.40	<0.5	24	50	66	2.88	<10
BB37559		0.26	0.2	1.36	<2	<10	50	<0.5	<2	0.34	<0.5	48	74	118	2.62	<10
BB37560		0.18	<0.2	1.94	<2	<10	180	<0.5	<2	0.61	<0.5	34	96	108	3.15	10
BB37561		0.18	<0.2	1.51	<2	<10	190	<0.5	<2	0.34	0.5	26	116	69	2.95	<10
BB37562		0.14	0.2	2.54	<2	<10	1060	0.7	<2	0.70	0.5	32	222	64	4.42	10
BB37563		0.24	<0.2	1.99	<2	<10	340	0.5	<2	0.50	0.7	60	348	23	5.04	<10
BB37564		0.26	<0.2	0.89	<2	<10	150	<0.5	<2	0.17	<0.5	28	180	30	2.80	<10
BB37565		0.10	<0.2	2.09	<2	<10	290	<0.5	<2	0.39	0.6	20	136	63	3.53	10
BB37566		0.28	<0.2	0.33	<2	<10	10	<0.5	<2	0.17	<0.5	5	17	26	0.88	<10
BB37567		0.22	<0.2	1.09	<2	<10	110	<0.5	<2	0.35	<0.5	24	31	109	2.10	<10
BB37568		0.26	<0.2	3.23	<2	<10	760	1.6	<2	0.73	<0.5	19	45	116	5.53	10
BB37569		0.20	<0.2	2.10	<2	<10	60	0.6	<2	0.32	0.6	16	175	48	2.52	10
BB37570		0.22	0.3	2.62	<2	<10	400	1.1	<2	0.65	0.8	14	105	45	3.79	10
BB37571		0.20	<0.2	1.39	<2	<10	80	<0.5	<2	0.36	<0.5	10	191	46	1.66	<10



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Page #: 4 - A

As : 4 (A - C)

Date : 26-Aug-2003

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Project : 4C West

CERTIFICATE OF ANALYSIS

VA03031310

Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
Sample Description															
BB37572	0.18	<0.2	2.34	2	<10	70	0.6	<2	0.05	0.5	11	119	26	3.77	10
BB37573	0.16	<0.2	1.22	7	<10	70	<0.5	<2	0.04	<0.5	10	56	34	4.09	10
BB37574	0.18	<0.2	1.61	<2	<10	70	<0.5	<2	0.05	<0.5	8	84	16	2.93	10
BB37575	0.22	<0.2	2.81	3	<10	80	1.0	<2	0.12	<0.5	19	131	112	4.69	10
BB37576	0.16	<0.2	1.55	4	<10	60	<0.5	<2	0.09	<0.5	9	56	34	2.89	10
BB37577	0.18	<0.2	1.94	4	<10	60	<0.5	<2	0.08	<0.5	10	84	22	3.74	10
BB37578	0.22	<0.2	1.60	3	<10	40	<0.5	<2	0.13	<0.5	7	32	42	2.10	<10
BB37579	0.18	<0.2	2.76	2	<10	70	0.5	<2	0.25	<0.5	13	70	70	2.94	10
BB37580	0.20	<0.2	2.36	<2	<10	140	0.7	<2	0.15	0.5	11	65	62	3.39	10
BB37581	0.20	<0.2	1.88	<2	<10	130	0.6	<2	0.08	<0.5	9	61	59	4.00	10
BB37582	0.18	<0.2	2.62	<2	<10	240	0.7	<2	0.26	0.5	14	68	58	2.99	10
BB37583	0.24	0.2	1.48	7	<10	90	0.6	<2	0.04	<0.5	7	31	24	2.99	10
BB37584	0.34	<0.2	2.10	5	<10	80	0.8	<2	0.11	<0.5	12	51	56	3.00	10
BB37585	0.24	<0.2	2.32	5	<10	100	0.9	<2	0.14	<0.5	16	78	67	3.08	10
BB37586	0.24	<0.2	2.73	<2	<10	100	0.9	<2	0.11	0.5	14	91	37	3.20	10
BB37587	0.28	<0.2	1.99	4	<10	80	<0.5	<2	0.15	<0.5	12	51	88	3.38	10
BB37588	0.26	<0.2	2.72	2	<10	110	0.7	<2	0.20	0.5	17	75	82	4.36	10
BB37589	0.20	0.2	1.36	<2	<10	90	0.5	<2	0.06	<0.5	8	60	20	3.18	10
BB37590	0.22	0.5	1.07	3	<10	140	0.5	<2	0.04	<0.5	12	61	49	3.85	10
BB37591	0.14	<0.2	2.45	<2	<10	230	0.6	<2	0.46	<0.5	14	43	95	2.30	10
BB37592	0.20	<0.2	1.53	<2	<10	90	<0.5	<2	0.23	0.5	10	39	64	1.68	10
BB37593	0.20	<0.2	1.29	<2	<10	60	<0.5	<2	0.29	<0.5	7	36	57	1.42	<10
BB37594	0.20	<0.2	1.37	<2	<10	60	<0.5	<2	0.27	<0.5	8	55	45	1.72	<10
BB37595	0.16	<0.2	2.04	<2	<10	100	<0.5	<2	0.33	<0.5	11	110	100	1.28	<10
BB37596	0.16	<0.2	2.65	<2	<10	100	<0.5	<2	0.42	<0.5	9	98	102	1.42	10
BB37597	0.18	<0.2	2.33	2	<10	80	<0.5	<2	0.36	<0.5	8	87	71	1.19	<10
BB37598	0.18	<0.2	2.29	<2	<10	90	<0.5	<2	0.32	<0.5	8	104	61	1.30	<10
BB37599	0.16	<0.2	2.54	<2	<10	90	<0.5	<2	0.42	<0.5	10	168	90	1.26	<10
BB37600	0.20	<0.2	3.08	<2	<10	160	<0.5	<2	0.30	<0.5	27	307	146	2.75	<10
BB37601	0.16	<0.2	3.14	2	<10	120	<0.5	<2	0.25	<0.5	20	217	190	2.20	10
BB37602	0.20	<0.2	3.54	<2	<10	70	<0.5	<2	0.39	<0.5	32	395	498	3.86	10
BB37603	0.28	<0.2	3.30	<2	<10	60	<0.5	<2	0.42	<0.5	38	415	298	2.90	10
BB37604	0.20	0.5	2.78	<2	<10	90	0.6	<2	0.11	0.5	9	81	66	2.21	10
BB37605	0.16	0.4	2.94	<2	<10	90	<0.5	<2	0.30	<0.5	31	316	345	2.96	10
BB37606	0.22	<0.2	2.94	2	<10	100	<0.5	<2	0.25	<0.5	15	167	145	1.86	<10
BB37607	0.18	<0.2	4.24	2	<10	70	<0.5	<2	0.57	<0.5	44	243	458	3.20	10
BB37608	0.20	<0.2	2.75	<2	<10	120	<0.5	<2	0.28	<0.5	31	378	139	2.68	<10
BB37609	0.18	<0.2	3.77	4	<10	180	<0.5	<2	0.47	<0.5	31	456	205	3.58	10
BB37610	0.24	0.2	2.37	<2	<10	100	<0.5	<2	0.33	<0.5	12	125	101	1.97	10
BB37611	0.20	<0.2	2.99	<2	<10	80	<0.5	<2	0.70	<0.5	18	208	121	1.88	<10



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Page #: 2 - B

Cus : 4 (A - C)

Date : 26-Aug-2003

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Project : 4C West

CERTIFICATE OF ANALYSIS

VA03031310

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB09822		<1	0.42	<10	2.67	585	<1	0.04	113	620	<2	0.04	<2	9	9	0.20
BB09890		<1	0.02	10	2.04	4100	<1	0.02	207	440	4	0.03	7	35	59	0.03
BB09891		<1	0.05	10	0.58	815	1	0.01	120	840	23	0.05	7	6	16	0.02
BB09974		<1	1.18	20	2.38	2400	<1	0.19	116	1620	2	0.09	<2	21	49	0.50
BB09975		1	1.15	10	2.41	769	<1	0.04	42	1560	<2	0.02	<2	10	17	0.54
BB33960		<1	0.33	70	0.79	986	1	0.02	227	1360	5	0.10	<2	5	46	0.16
BB33962		2	0.16	10	0.43	1730	<1	<0.01	71	740	2	2.15	11	28	27	<0.01
BB33963		<1	0.33	10	1.08	1260	<1	0.06	78	500	<2	0.01	<2	22	18	0.02
BB33971		<1	0.50	50	0.84	807	2	0.05	22	1110	12	0.06	<2	7	19	0.24
BB33978		<1	0.24	10	1.80	670	<1	0.06	68	560	<2	0.02	<2	9	68	0.23
BB37502		<1	0.06	<10	1.24	490	<1	0.04	65	500	2	0.03	<2	8	39	0.11
BB37503		<1	0.17	10	0.87	476	<1	0.02	45	640	3	0.02	<2	5	11	0.17
BB37504		<1	0.04	10	2.35	548	<1	0.01	379	850	6	0.04	<2	2	10	0.05
BB37505		<1	0.01	<10	7.22	417	<1	<0.01	1165	190	4	0.02	<2	3	8	0.02
BB37506		<1	0.04	10	4.41	878	<1	0.01	654	380	7	0.03	<2	5	11	0.05
BB37507		<1	0.05	10	6.23	1470	<1	0.01	875	570	5	0.04	<2	5	12	0.04
BB37508		<1	0.03	10	4.77	998	<1	0.01	1045	280	4	0.02	<2	4	8	0.03
BB37509		<1	0.05	10	1.02	500	<1	0.02	261	540	6	0.03	<2	4	11	0.05
BB37510		<1	0.06	10	1.23	562	<1	0.02	359	520	6	0.02	3	9	16	0.06
BB37511		<1	0.03	10	1.26	572	<1	0.01	511	500	5	0.02	2	10	12	0.02
BB37512		<1	0.05	10	1.12	1030	<1	0.01	473	500	11	0.01	4	13	20	0.03
BB37513		<1	0.06	10	0.78	639	<1	0.01	431	800	30	0.04	3	7	22	0.01
BB37514		<1	0.06	10	0.49	292	<1	0.04	37	580	4	0.04	<2	4	16	0.05
BB37515		<1	0.19	20	1.04	1630	<1	0.01	319	640	16	0.01	<2	14	30	0.08
BB37516		<1	0.09	20	0.81	1315	<1	0.01	99	700	9	0.03	<2	12	18	0.09
BB37517		<1	0.14	10	1.56	489	<1	0.05	58	600	<2	0.02	<2	7	53	0.17
BB37518		<1	0.04	10	2.00	1755	<1	0.01	73	450	2	0.02	<2	28	17	0.03
BB37519		<1	0.58	10	1.30	842	<1	0.02	47	1200	2	0.01	<2	7	31	0.31
BB37520		<1	0.60	20	1.36	829	<1	0.02	75	1480	<2	0.03	<2	10	18	0.31
BB37521		<1	0.43	20	1.69	662	<1	0.03	210	1460	3	0.05	<2	10	29	0.27
BB37522		<1	0.14	10	1.62	435	<1	0.02	539	800	4	0.06	<2	5	21	0.10
BB37523		<1	0.04	10	5.67	827	<1	0.02	978	490	3	0.03	<2	5	9	0.04
BB37524		<1	0.03	10	5.17	900	<1	0.01	2080	580	<2	0.06	<2	8	20	0.03
BB37525		<1	0.34	20	1.81	679	<1	0.01	331	740	12	0.02	<2	8	14	0.17
BB37526		1	0.05	<10	1.21	450	<1	0.03	68	690	<2	0.06	<2	6	59	0.09
BB37527		<1	0.32	10	1.50	661	<1	0.02	54	770	5	0.04	2	9	36	0.21
BB37528		<1	0.19	10	1.26	1320	1	0.02	92	750	5	0.03	2	12	19	0.19
BB37529		<1	0.14	10	0.52	1195	2	<0.01	72	760	13	0.04	2	8	16	0.10
BB37530		<1	0.13	10	1.59	671	<1	0.02	126	630	7	0.03	<2	8	46	0.18
BB37531		<1	0.31	10	1.12	808	<1	0.02	60	680	6	0.04	<2	7	51	0.20



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ALS Canada Ltd.

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



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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 3 - B

Tests: 4 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS

VA03031310

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB37532		<1	0.17	10	1.01	580	<1	0.02	55	580	9	0.06	<2	6	42	0.15
BB37533		<1	0.19	10	0.99	472	<1	0.01	79	780	4	0.04	<2	5	12	0.14
BB37534		<1	0.08	10	1.43	389	<1	0.01	269	570	4	0.03	<2	4	11	0.06
BB37535		<1	0.11	10	2.67	823	1	0.01	1700	780	3	0.04	<2	10	17	0.07
BB37536		<1	0.05	10	2.55	788	<1	0.01	402	990	4	0.06	<2	2	14	0.04
BB37537		<1	0.06	10	1.23	546	1	0.01	267	1020	7	0.07	<2	4	15	0.08
BB37538		<1	0.13	10	0.73	503	<1	0.02	76	740	3	0.04	<2	7	10	0.09
BB37539		<1	0.10	<10	0.60	527	<1	0.02	37	460	<2	0.04	<2	5	12	0.08
BB37540		<1	0.12	10	0.58	419	<1	0.01	33	530	3	0.01	<2	8	9	0.07
BB37541		<1	0.11	10	0.62	574	1	0.02	49	530	8	0.02	2	11	12	0.04
BB37542		<1	0.02	<10	0.42	469	<1	0.02	40	400	<2	0.05	<2	6	8	0.03
BB37543		<1	0.08	<10	0.61	499	<1	0.03	99	530	<2	0.03	<2	6	13	0.06
BB37544		<1	0.04	10	2.23	529	<1	0.01	502	470	7	0.03	<2	5	13	0.05
BB37545		<1	0.03	10	4.41	338	<1	0.01	654	270	14	0.02	<2	3	11	0.07
BB37546		<1	0.15	10	0.86	694	<1	0.03	90	940	<2	0.09	<2	6	22	0.12
BB37547		<1	0.12	<10	0.98	483	<1	0.04	99	480	<2	0.02	2	7	20	0.11
BB37548		<1	0.01	<10	0.41	128	<1	0.02	41	450	<2	0.04	<2	3	7	0.04
BB37549		<1	0.13	10	0.44	173	1	0.01	26	350	4	0.02	<2	6	9	0.08
BB37550		<1	0.05	<10	0.65	799	<1	<0.01	51	430	<2	0.01	<2	21	9	0.01
BB37551		<1	0.71	20	0.97	572	1	0.02	72	1050	25	0.02	<2	7	10	0.22
BB37552		<1	0.09	<10	0.46	378	<1	0.02	35	480	2	0.02	<2	9	15	0.04
BB37553		<1	0.03	<10	0.36	1155	<1	0.01	35	480	<2	0.03	<2	6	9	0.03
BB37554		<1	0.47	20	1.10	535	1	0.01	87	600	7	0.03	<2	11	6	0.25
BB37555		<1	0.06	10	2.15	497	<1	0.01	388	330	6	0.03	<2	5	9	0.07
BB37556		<1	0.07	10	0.76	324	<1	0.04	51	620	4	0.06	<2	3	18	0.10
BB37557		<1	0.24	10	0.73	483	1	0.02	47	790	8	0.09	<2	4	13	0.12
BB37558		<1	0.12	10	0.52	969	<1	0.02	38	450	4	0.03	2	7	11	0.08
BB37559		<1	0.02	<10	0.98	444	<1	0.02	70	510	<2	0.04	<2	5	7	0.05
BB37560		<1	0.24	10	1.32	472	<1	0.02	114	910	7	0.08	2	5	14	0.15
BB37561		<1	0.16	10	1.64	426	1	0.02	239	530	13	0.03	<2	6	9	0.16
BB37562		<1	0.15	10	2.26	763	2	0.04	308	960	6	0.03	<2	14	44	0.12
BB37563		<1	0.08	10	5.07	916	2	0.02	884	800	11	0.02	<2	10	35	0.11
BB37564		<1	0.02	10	2.80	397	3	0.02	449	300	7	0.02	<2	6	10	0.06
BB37565		<1	0.48	10	1.27	440	1	0.03	111	720	9	0.02	<2	7	19	0.27
BB37566		<1	<0.01	<10	0.27	92	1	0.01	11	200	2	0.01	<2	1	3	0.02
BB37567		<1	0.04	<10	0.52	276	1	0.02	41	300	2	0.01	<2	4	11	0.05
BB37568		<1	0.88	20	1.32	799	2	0.02	60	1180	27	0.01	<2	10	10	0.27
BB37569		<1	0.07	<10	1.18	206	2	0.03	102	290	5	0.02	<2	4	12	0.16
BB37570		<1	0.23	10	1.24	511	2	0.02	87	670	17	0.05	<2	9	26	0.15
BB37571		<1	0.02	<10	1.24	164	1	0.01	58	270	3	0.03	<2	1	14	0.03



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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 4 - B

Date : 26-Aug-2003

Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031310

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB37572		<1	0.06	10	0.90	368	2	0.01	66	310	17	0.02	<2	3	7	0.05
BB37573		<1	0.04	20	0.22	260	2	<0.01	37	430	16	0.01	<2	3	8	0.04
BB37574		<1	0.09	10	0.70	274	2	0.01	41	580	19	0.01	<2	3	6	0.08
BB37575		<1	0.06	10	1.22	523	2	0.01	77	500	18	0.03	<2	5	10	0.09
BB37576		<1	0.05	10	0.45	266	1	0.01	35	440	11	0.03	<2	1	8	0.05
BB37577		<1	0.05	10	0.77	254	1	0.01	62	380	20	0.02	<2	4	8	0.09
BB37578		1	0.03	10	0.39	144	1	0.01	21	440	6	0.02	<2	1	5	0.04
BB37579		<1	0.07	10	0.75	223	1	0.02	35	430	6	0.03	<2	4	9	0.11
BB37580		<1	0.11	10	0.65	454	2	0.02	40	370	13	0.02	<2	4	10	0.12
BB37581		<1	0.07	10	0.52	412	2	0.01	33	390	12	0.02	<2	4	7	0.12
BB37582		<1	0.12	10	0.86	460	2	0.02	48	520	9	0.03	<2	7	14	0.15
BB37583		<1	0.07	20	0.28	258	2	<0.01	17	470	18	0.02	<2	1	9	0.02
BB37584		<1	0.05	10	0.54	294	2	0.01	33	410	16	0.02	<2	3	9	0.03
BB37585		<1	0.05	10	0.72	376	1	0.01	47	330	14	0.02	<2	4	10	0.05
BB37586		<1	0.05	10	0.90	333	2	0.01	80	350	22	0.02	<2	5	9	0.08
BB37587		<1	0.04	10	0.70	277	1	0.01	33	430	13	0.03	<2	4	19	0.06
BB37588		<1	0.05	10	1.02	389	2	0.01	45	460	19	0.03	<2	6	14	0.07
BB37589		<1	0.07	10	0.44	405	3	0.01	31	400	19	0.02	<2	2	9	0.05
BB37590		<1	0.05	20	0.23	375	2	<0.01	59	680	13	0.02	<2	2	6	0.02
BB37591		<1	0.11	10	0.62	274	1	0.03	32	720	6	0.07	<2	3	35	0.08
BB37592		<1	0.06	10	0.48	162	1	0.02	25	470	4	0.05	<2	2	13	0.08
BB37593		<1	0.04	<10	0.38	120	1	0.02	27	460	3	0.05	<2	1	14	0.06
BB37594		<1	0.03	<10	0.47	176	1	0.02	30	410	4	0.03	<2	2	17	0.07
BB37595		<1	0.04	<10	0.65	134	1	0.04	49	390	4	0.04	<2	1	18	0.05
BB37596		<1	0.04	10	0.61	162	1	0.04	40	620	5	0.06	<2	1	21	0.04
BB37597		<1	0.03	<10	0.55	155	1	0.04	37	510	4	0.05	<2	1	18	0.04
BB37598		<1	0.03	<10	0.71	140	1	0.03	41	460	5	0.04	<2	1	14	0.04
BB37599		<1	0.04	<10	0.95	132	1	0.04	54	360	4	0.04	<2	1	20	0.05
BB37600		<1	0.05	<10	2.04	290	2	0.03	116	280	3	0.02	<2	2	32	0.05
BB37601		<1	0.04	10	1.08	220	2	0.03	73	480	6	0.05	<2	2	17	0.04
BB37602		<1	0.05	10	1.37	179	2	0.04	108	350	6	0.06	<2	4	41	0.04
BB37603		<1	0.05	<10	1.77	146	1	0.03	123	140	2	0.02	<2	5	42	0.03
BB37604		<1	0.08	10	0.57	217	3	0.01	36	640	9	0.07	<2	2	17	0.07
BB37605		<1	0.08	10	1.44	124	3	0.02	124	340	4	0.08	<2	4	25	0.06
BB37606		<1	0.04	10	0.70	210	1	0.03	56	490	6	0.04	<2	2	20	0.03
BB37607		<1	0.05	<10	1.55	210	2	0.02	106	450	4	0.04	<2	4	54	0.03
BB37608		<1	0.04	<10	2.00	226	1	0.03	125	80	3	0.01	<2	2	26	0.03
BB37609		<1	0.07	<10	2.62	341	<1	0.04	144	190	4	0.02	<2	2	69	0.05
BB37610		<1	0.05	10	0.92	184	2	0.02	53	470	4	0.05	<2	1	20	0.05
BB37611		<1	0.06	<10	1.72	272	2	0.03	83	320	5	0.02	<2	2	36	0.04



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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED Total # of

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 2 - C

Tests: 4 (A - C)

Date: 26-Aug-2003

Account: FOURC

Project: 4C West

CERTIFICATE OF ANALYSIS

VA03031310

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
BB09822		<10	<10	123	<10	142
BB09890		<10	<10	124	<10	281
BB09891		<10	<10	102	<10	113
BB09974		<10	<10	221	<10	59
BB09975		<10	<10	169	<10	96
BB33960		<10	20	62	<10	102
BB33962		<10	<10	79	<10	104
BB33963		<10	<10	98	<10	68
BB33971		<10	<10	66	<10	142
BB33978		<10	<10	97	<10	57
BB37502		<10	<10	67	<10	49
BB37503		<10	<10	72	<10	53
BB37504		<10	<10	43	<10	53
BB37505		<10	<10	29	<10	39
BB37506		<10	<10	41	<10	45
BB37507		<10	<10	37	<10	49
BB37508		<10	<10	33	<10	43
BB37509		<10	<10	72	<10	72
BB37510		<10	<10	79	<10	83
BB37511		<10	<10	77	<10	114
BB37512		<10	<10	90	<10	115
BB37513		<10	<10	98	<10	94
BB37514		<10	<10	48	<10	33
BB37515		<10	<10	106	<10	144
BB37516		<10	<10	118	<10	132
BB37517		<10	<10	77	<10	50
BB37518		<10	<10	208	<10	55
BB37519		<10	<10	107	<10	79
BB37520		<10	<10	134	<10	95
BB37521		<10	<10	137	<10	72
BB37522		<10	<10	53	<10	64
BB37523		<10	<10	37	<10	41
BB37524		<10	<10	38	<10	49
BB37525		<10	<10	82	<10	93
BB37526		<10	<10	87	<10	166
BB37527		<10	<10	131	<10	83
BB37528		<10	<10	135	<10	112
BB37529		<10	<10	119	<10	138
BB37530		<10	<10	92	<10	73
BB37531		<10	<10	107	<10	82

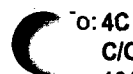


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Page #: 3 - C
Total # of pages : 4 (A - C)
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Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS VA03031310

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
BB37532		<10	<10	96	<10	70
BB37533		<10	<10	79	<10	64
BB37534		<10	<10	44	<10	44
BB37535		<10	<10	57	<10	56
BB37536		<10	<10	43	<10	60
BB37537		<10	<10	79	<10	51
BB37538		<10	<10	76	<10	59
BB37539		<10	<10	67	<10	39
BB37540		<10	<10	76	<10	38
BB37541		<10	<10	104	<10	59
BB37542		<10	<10	63	<10	31
BB37543		<10	<10	56	<10	64
BB37544		<10	<10	37	<10	51
BB37545		<10	<10	48	<10	91
BB37546		<10	<10	80	<10	73
BB37547		<10	<10	71	<10	216
BB37548		<10	<10	52	<10	73
BB37549		<10	<10	68	<10	37
BB37550		<10	<10	144	<10	38
BB37551		<10	<10	135	<10	156
BB37552		<10	<10	63	<10	26
BB37553		<10	<10	51	<10	26
BB37554		<10	<10	115	<10	71
BB37555		<10	<10	42	<10	43
BB37556		<10	<10	59	<10	35
BB37557		<10	<10	86	<10	68
BB37558		<10	<10	64	<10	44
BB37559		<10	<10	70	<10	67
BB37560		<10	<10	88	<10	92
BB37561		<10	<10	74	<10	77
BB37562		<10	<10	106	<10	58
BB37563		<10	<10	76	<10	62
BB37564		<10	<10	41	<10	37
BB37565		<10	<10	96	<10	68
BB37566		<10	<10	17	<10	29
BB37567		<10	<10	45	<10	19
BB37568		<10	<10	160	<10	152
BB37569		<10	<10	53	<10	35
BB37570		<10	<10	86	<10	117
BB37571		<10	<10	33	<10	22



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Page #: 4 - C
Total # of pages : 4 (A - C)
Date : 26-Aug-2003
Account: FOURC

Project : 4C West

CERTIFICATE OF ANALYSIS **VA03031310**

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
BB37572		<10	<10	77	<10	80
BB37573		<10	<10	96	<10	70
BB37574		<10	<10	94	<10	72
BB37575		<10	<10	101	<10	88
BB37576		<10	<10	81	<10	54
BB37577		<10	<10	86	<10	60
BB37578		<10	<10	47	<10	30
BB37579		<10	<10	60	<10	43
BB37580		<10	<10	80	<10	96
BB37581		<10	<10	101	<10	79
BB37582		<10	<10	83	<10	76
BB37583		<10	<10	45	<10	75
BB37584		<10	<10	58	<10	75
BB37585		<10	<10	67	<10	77
BB37586		<10	<10	72	<10	102
BB37587		<10	<10	81	<10	68
BB37588		<10	<10	99	<10	100
BB37589		<10	<10	77	<10	75
BB37590		<10	<10	90	<10	118
BB37591		<10	<10	61	<10	41
BB37592		<10	<10	46	<10	33
BB37593		<10	<10	36	<10	33
BB37594		<10	<10	44	<10	34
BB37595		<10	<10	30	<10	31
BB37596		<10	<10	31	<10	32
BB37597		<10	<10	28	<10	31
BB37598		<10	<10	28	<10	27
BB37599		<10	<10	31	<10	23
BB37600		<10	<10	57	<10	34
BB37601		<10	<10	55	<10	39
BB37602		<10	<10	160	<10	32
BB37603		<10	<10	103	<10	26
BB37604		<10	<10	69	<10	63
BB37605		<10	<10	107	<10	52
BB37606		<10	<10	55	<10	32
BB37607		<10	<10	77	<10	51
BB37608		<10	<10	69	<10	28
BB37609		<10	<10	75	<10	39
BB37610		<10	<10	43	<10	35
BB37611		<10	<10	39	<10	46



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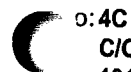
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Page # : 1

: 21-Aug-2003

Account: FOURC

CERTIFICATE VA03030225

Project : 4C West Block

P.O. No:

This report is for 211 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 13-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: 4C

C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 2 - A

Total # of Pages : 7 (A - C)

Date : 21-Aug-2003

Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS

VA03030225

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB09801		0.20	0.2	1.54	2	<10	80	0.7	<2	0.34	<0.5	11	54	52	2.25	10
BB09883		0.34	<0.2	1.42	2	<10	250	5.9	<2	0.57	<0.5	36	87	398	5.41	10
BB09924		0.22	<0.2	1.73	9	<10	290	<0.5	<2	0.66	<0.5	29	123	106	3.50	<10
BB09925		0.30	<0.2	1.38	4	<10	90	<0.5	<2	0.68	<0.5	24	104	126	3.77	<10
BB09926		0.32	<0.2	0.98	2	<10	100	<0.5	<2	0.29	<0.5	15	44	124	2.05	<10
BB09927		0.28	<0.2	1.77	<2	<10	290	<0.5	<2	0.78	<0.5	20	97	86	2.91	10
BB09928		0.34	0.2	1.66	<2	<10	100	<0.5	<2	0.56	<0.5	24	71	177	2.87	10
BB09929		0.20	<0.2	0.97	5	<10	90	<0.5	<2	0.32	0.5	17	30	102	1.61	<10
BB09930		0.26	<0.2	2.62	<2	<10	230	<0.5	<2	0.76	<0.5	22	117	79	2.90	10
BB09931		0.28	<0.2	1.92	<2	<10	90	<0.5	<2	0.60	<0.5	16	87	95	1.86	10
BB09932		0.38	<0.2	2.91	<2	<10	150	<0.5	<2	0.50	<0.5	38	139	239	3.98	10
BB09933		0.38	0.2	2.02	3	<10	540	<0.5	<2	0.31	<0.5	28	72	257	4.64	10
BB09934		0.36	<0.2	2.81	2	<10	220	0.7	<2	0.80	<0.5	31	189	105	4.76	10
BB09935		0.28	<0.2	2.15	2	<10	170	<0.5	<2	0.71	<0.5	24	113	86	2.94	10
BB09936		0.20	<0.2	2.41	<2	<10	190	<0.5	<2	0.66	<0.5	27	114	97	3.64	10
BB09937		0.32	<0.2	1.95	<2	<10	80	<0.5	<2	0.29	<0.5	14	63	61	2.63	10
BB09938		0.30	<0.2	1.24	2	<10	80	<0.5	<2	0.26	<0.5	39	54	169	2.99	<10
BB09939		0.28	<0.2	1.66	2	<10	80	<0.5	<2	0.34	<0.5	24	85	137	2.67	<10
BB09940		0.24	<0.2	1.74	<2	<10	90	<0.5	<2	0.50	<0.5	19	90	72	2.80	<10
BB09941		0.18	<0.2	0.98	<2	<10	60	<0.5	<2	0.27	<0.5	10	67	32	1.40	<10
BB09942		0.22	<0.2	2.35	<2	<10	140	<0.5	<2	0.37	<0.5	43	127	199	3.37	10
BB09943		0.24	<0.2	1.48	<2	<10	90	<0.5	<2	0.39	<0.5	14	45	76	1.76	<10
BB09944		0.22	<0.2	1.70	2	<10	70	<0.5	<2	0.41	<0.5	11	78	51	1.82	<10
BB09945		0.28	0.3	1.31	4	<10	190	1.6	<2	1.80	<0.5	47	150	87	5.85	<10
BB09946		0.26	<0.2	1.14	<2	<10	120	<0.5	<2	0.35	<0.5	10	33	71	1.12	<10
BB09947		0.24	<0.2	0.80	<2	<10	70	<0.5	<2	0.39	<0.5	13	30	89	1.14	<10
BB09948		0.34	<0.2	0.49	<2	<10	110	<0.5	<2	0.42	<0.5	22	30	102	1.95	<10
BB09949		0.28	<0.2	0.95	6	<10	40	<0.5	<2	0.20	<0.5	30	30	91	1.70	<10
BB09950		0.18	<0.2	2.62	<2	<10	210	<0.5	<2	0.76	<0.5	27	114	140	2.74	10
BB09951		0.18	<0.2	2.12	2	<10	200	<0.5	<2	0.63	<0.5	22	78	131	2.72	10
BB09952		0.24	<0.2	1.72	3	<10	240	1.1	<2	0.47	<0.5	22	73	98	2.50	<10
BB09953		0.24	<0.2	2.35	<2	<10	430	0.5	<2	0.29	<0.5	18	72	95	2.78	10
BB09954		0.28	0.2	2.34	3	<10	320	0.9	<2	0.28	<0.5	13	53	69	2.50	10
BB09955		0.30	0.2	0.91	2	<10	180	1.2	<2	0.08	<0.5	19	32	90	5.08	<10
BB09956		0.34	<0.2	1.59	<2	<10	140	2.4	<2	1.76	<0.5	31	64	125	3.04	<10
BB09957		0.22	<0.2	1.48	4	<10	200	0.9	<2	0.78	<0.5	25	45	104	3.65	10
BB09958		0.24	<0.2	2.99	<2	<10	110	<0.5	<2	1.66	<0.5	24	123	105	3.05	10
BB09959		0.26	<0.2	2.07	3	<10	200	0.6	<2	0.63	<0.5	29	89	110	3.80	<10
BB09960		0.20	<0.2	1.58	<2	<10	120	<0.5	<2	0.75	<0.5	15	63	87	2.21	<10
BB09961		0.16	<0.2	1.52	<2	<10	170	<0.5	<2	0.57	<0.5	18	76	83	2.70	10



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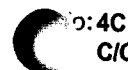
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1016-510 W HASTINGS ST

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Page #: 3 - A

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Project : 4C West Block

CERTIFICATE OF ANALYSIS

VA03030225

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB09962		0.20	<0.2	2.40	<2	<10	130	<0.5	<2	1.00	<0.5	28	84	135	3.60	10
BB09963		0.32	<0.2	2.38	3	<10	210	<0.5	<2	1.12	<0.5	32	80	139	4.03	10
BB09964		0.36	<0.2	2.01	<2	<10	230	0.5	<2	1.82	<0.5	32	78	136	3.81	10
BB09965		0.34	<0.2	1.76	<2	<10	260	1.6	<2	4.38	<0.5	36	101	85	4.76	10
BB09966		0.28	<0.2	1.86	<2	<10	190	1.1	<2	0.72	<0.5	27	85	117	3.27	10
BB09967		0.32	<0.2	1.82	3	<10	260	1.5	<2	0.78	<0.5	39	104	138	4.58	10
BB09968		0.20	0.6	1.70	30	<10	470	1.3	<2	0.29	<0.5	24	115	77	4.26	10
BB09969		0.24	0.2	1.32	47	<10	400	1.1	<2	0.41	<0.5	37	80	121	5.11	<10
BB09970		0.60	0.3	1.12	6	<10	220	1.3	<2	0.60	<0.5	39	108	72	5.78	<10
BB09971		0.22	<0.2	1.50	<2	<10	300	1.2	<2	1.28	<0.5	41	115	99	5.51	10
BB09972		0.20	0.2	0.83	14	<10	490	1.3	<2	0.08	<0.5	12	43	77	3.55	<10
BB09973		0.22	<0.2	1.25	7	<10	340	0.9	<2	0.08	<0.5	13	54	58	3.15	10
BB27370		0.28	<0.2	2.02	2	<10	320	1.7	<2	1.25	<0.5	69	795	12	3.47	<10
BB33961		0.30	0.5	0.96	6	<10	130	1.9	<2	2.05	<0.5	41	85	106	5.88	<10
M24277		0.28	0.2	1.28	10	<10	110	<0.5	<2	0.40	0.5	29	69	208	3.20	<10
M24278		0.36	<0.2	1.60	<2	<10	120	<0.5	<2	0.77	<0.5	22	96	90	1.81	<10
M24279		0.28	<0.2	1.15	<2	<10	110	<0.5	<2	0.70	<0.5	19	115	137	2.29	<10
M24280		0.24	<0.2	1.45	<2	<10	80	<0.5	<2	0.61	<0.5	24	130	181	2.80	<10
M24281		0.24	<0.2	1.60	2	<10	370	<0.5	<2	0.35	<0.5	36	95	131	3.23	10
M24282		0.18	0.2	0.80	5	<10	110	<0.5	<2	0.33	<0.5	104	798	28	4.73	<10
M24283		0.30	0.2	0.49	5	<10	70	<0.5	<2	0.20	<0.5	137	824	44	4.82	<10
M24284		0.30	<0.2	1.10	<2	<10	120	<0.5	<2	0.35	<0.5	24	72	94	1.90	<10
M24285		0.22	<0.2	1.66	<2	<10	90	<0.5	<2	0.84	<0.5	15	83	94	1.90	<10
M24286		0.32	<0.2	1.24	<2	<10	80	<0.5	<2	0.37	<0.5	37	64	145	2.01	<10
M24287		0.36	<0.2	1.12	<2	<10	50	<0.5	<2	0.14	<0.5	8	40	61	2.22	<10
M24289		0.24	0.2	0.84	2	<10	90	<0.5	<2	0.38	<0.5	13	58	45	1.82	<10
M24290		0.26	<0.2	0.93	<2	<10	160	<0.5	<2	0.32	<0.5	23	36	107	1.72	<10
M24291		0.24	<0.2	1.22	2	<10	510	<0.5	<2	0.15	<0.5	33	38	179	2.30	10
M24292		0.26	0.2	1.30	<2	<10	80	<0.5	<2	0.19	<0.5	49	603	56	3.86	<10
M24293		0.24	<0.2	1.36	<2	<10	150	<0.5	<2	0.74	<0.5	47	241	52	2.74	<10
M24294		0.22	0.2	0.74	3	<10	50	<0.5	<2	0.31	<0.5	36	403	22	2.28	<10
M24295		0.22	<0.2	0.68	3	<10	60	<0.5	<2	0.09	<0.5	28	360	20	2.52	<10
M24296		0.22	<0.2	0.71	3	<10	80	<0.5	<2	0.10	<0.5	49	384	19	2.79	<10
M24297		0.20	<0.2	0.65	3	10	60	<0.5	<2	0.13	<0.5	61	360	24	2.72	<10
M24298		0.22	<0.2	1.79	<2	<10	100	<0.5	<2	0.15	<0.5	15	85	49	2.18	<10
M24299		0.32	<0.2	1.17	<2	<10	60	<0.5	<2	0.21	<0.5	18	52	36	1.62	<10
M24300		0.28	0.2	1.05	<2	<10	90	<0.5	<2	0.29	<0.5	16	94	24	1.72	<10
M24301		0.24	<0.2	1.16	25	<10	210	<0.5	<2	0.24	<0.5	17	50	89	2.39	<10
M24302		0.24	<0.2	0.96	2	<10	60	<0.5	<2	0.14	<0.5	19	39	73	2.36	<10
M24303		0.26	<0.2	1.52	<2	<10	60	<0.5	<2	0.34	<0.5	50	54	132	2.68	10



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Page #: 4 - A
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CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
M24304		0.30	<0.2	0.85	<2	<10	40	<0.5	<2	0.15	<0.5	24	56	70	1.66	<10
M24305		0.24	<0.2	1.96	<2	<10	80	<0.5	<2	0.45	<0.5	10	61	61	1.26	<10
M24306		0.34	<0.2	2.53	<2	<10	80	<0.5	<2	0.67	<0.5	25	71	81	1.93	10
M24307		0.24	<0.2	0.85	<2	<10	50	<0.5	<2	0.19	<0.5	10	37	61	1.44	<10
M24308		0.30	<0.2	0.86	3	<10	70	<0.5	<2	0.30	<0.5	10	41	55	1.61	<10
M24309		0.28	<0.2	2.53	<2	<10	200	<0.5	<2	0.40	<0.5	29	50	112	3.51	<10
M24310		0.30	<0.2	2.77	<2	<10	540	0.6	<2	0.43	<0.5	25	110	126	4.26	10
M24311		0.28	0.2	0.81	<2	<10	80	<0.5	<2	0.21	<0.5	8	33	38	1.26	<10
M24312		0.26	<0.2	0.84	2	<10	50	<0.5	<2	0.16	<0.5	6	32	43	1.16	<10
M24313		0.20	<0.2	1.10	<2	<10	50	<0.5	<2	0.25	0.5	11	42	72	1.98	<10
M24314		0.22	<0.2	2.46	<2	<10	60	<0.5	<2	0.90	<0.5	13	80	65	1.72	10
M24315		0.26	<0.2	1.84	2	<10	50	<0.5	<2	0.59	<0.5	7	43	62	1.00	<10
M24316		0.26	<0.2	1.80	2	<10	60	<0.5	<2	0.50	<0.5	9	53	65	1.24	<10
M24317		0.16	<0.2	1.64	<2	<10	70	<0.5	<2	0.51	<0.5	23	57	91	1.88	<10
M24318		0.20	<0.2	1.05	<2	<10	50	<0.5	<2	0.24	<0.5	19	36	80	2.47	<10
M24319		0.26	0.4	1.00	6	<10	40	<0.5	<2	0.13	<0.5	12	42	55	1.90	<10
M24320		0.18	<0.2	0.39	<2	<10	30	<0.5	<2	0.16	<0.5	5	87	8	0.76	<10
M24321		0.30	<0.2	0.91	8	<10	50	<0.5	<2	0.16	<0.5	11	53	41	1.76	<10
M24322		0.28	<0.2	0.73	3	<10	60	<0.5	<2	0.18	<0.5	25	249	26	2.55	<10
M24323		0.22	0.5	0.52	<2	<10	50	<0.5	<2	0.10	<0.5	76	446	27	4.23	<10
M24324		0.28	<0.2	1.06	3	<10	50	<0.5	<2	0.13	<0.5	17	163	33	2.33	<10
M24325		0.28	0.3	1.16	<2	<10	40	<0.5	<2	0.13	<0.5	11	32	53	1.62	<10
M24326		0.14	0.2	0.48	<2	<10	20	<0.5	<2	0.10	<0.5	6	27	21	0.96	<10
M24327		0.28	0.2	1.13	<2	<10	80	<0.5	<2	0.19	<0.5	21	35	72	2.28	<10
M24328		0.18	<0.2	1.20	<2	<10	50	<0.5	<2	0.38	<0.5	19	43	74	1.66	<10
M24329		0.32	<0.2	1.71	<2	<10	50	<0.5	<2	0.51	<0.5	8	58	72	1.01	<10
M24330		0.18	<0.2	1.02	<2	<10	40	<0.5	<2	0.33	<0.5	5	36	35	0.87	<10
M24331		0.20	<0.2	0.65	<2	<10	10	<0.5	<2	0.14	<0.5	3	22	16	0.59	<10
M24332		0.18	0.3	0.87	<2	<10	40	<0.5	<2	0.18	<0.5	8	22	95	1.32	<10
M24333		0.32	<0.2	1.26	3	<10	90	<0.5	<2	0.20	<0.5	12	38	69	1.28	<10
M24334		0.26	0.2	2.27	3	<10	250	<0.5	<2	0.25	<0.5	15	70	69	1.92	10
M24335		0.32	<0.2	2.13	2	<10	180	<0.5	<2	0.42	<0.5	14	60	73	2.34	10
M24336		0.26	<0.2	2.44	<2	<10	180	<0.5	<2	0.46	<0.5	16	82	80	1.92	10
M24337		0.28	<0.2	2.47	<2	<10	280	<0.5	<2	0.50	<0.5	13	76	75	1.92	10
M24338		0.28	<0.2	2.08	<2	<10	270	1.0	<2	0.66	<0.5	22	84	100	3.71	10
M24339		0.34	0.2	1.69	<2	<10	180	<0.5	<2	0.53	<0.5	16	60	65	2.22	10
M24340		0.28	0.2	1.50	5	<10	140	<0.5	<2	0.60	<0.5	11	43	51	1.92	10
M24341		0.34	0.2	1.37	3	<10	100	<0.5	<2	0.63	<0.5	8	40	46	1.62	<10
M24343		0.26	<0.2	2.23	4	<10	110	<0.5	<2	0.86	<0.5	8	36	63	1.56	10
M24344		0.26	0.3	1.49	3	<10	120	<0.5	<2	0.24	<0.5	6	26	41	1.38	<10



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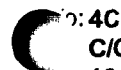
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
M24345		0.30	<0.2	1.57	<2	<10	100	<0.5	<2	0.30	<0.5	10	43	62	1.42	10
M24346		0.30	<0.2	0.59	<2	<10	30	<0.5	<2	0.20	<0.5	9	17	41	0.87	<10
M24347		0.22	0.2	0.82	2	<10	30	<0.5	<2	0.15	<0.5	8	21	148	1.38	<10
M24348		0.24	0.2	0.99	<2	<10	30	<0.5	<2	0.16	<0.5	5	28	54	1.13	<10
M24350		0.28	<0.2	1.58	<2	<10	50	<0.5	<2	0.40	<0.5	9	52	60	1.06	<10
M24351		0.20	0.2	1.71	<2	<10	40	<0.5	<2	0.22	<0.5	7	39	45	1.16	<10
M24352		0.28	<0.2	1.64	<2	<10	70	<0.5	<2	0.22	<0.5	10	39	71	1.64	<10
M24353		0.28	<0.2	1.34	<2	<10	60	<0.5	<2	0.16	<0.5	9	30	68	1.57	<10
M24354		0.30	<0.2	0.78	<2	<10	60	<0.5	<2	0.25	<0.5	7	19	47	0.87	<10
M24355		0.28	<0.2	2.55	2	<10	300	0.7	<2	0.60	<0.5	21	108	91	3.41	10
M24356		0.26	<0.2	2.08	<2	<10	270	0.5	<2	0.67	<0.5	19	72	84	2.56	10
M24357		0.36	<0.2	2.37	<2	<10	220	<0.5	<2	0.81	<0.5	17	84	99	2.45	10
M24358		0.28	<0.2	1.12	2	<10	330	0.8	<2	0.15	<0.5	12	49	65	2.47	10
M24359		0.26	<0.2	1.46	5	<10	210	0.7	<2	0.17	<0.5	12	48	48	2.83	10
M24360		0.28	0.3	1.20	5	<10	260	0.6	<2	0.10	<0.5	8	42	42	2.53	10
M24361		0.34	<0.2	0.98	2	<10	320	<0.5	<2	0.07	<0.5	6	41	38	2.11	10
M24362		0.30	0.3	2.63	5	<10	1000	1.6	<2	0.33	<0.5	17	91	117	4.21	10
M24363		0.28	<0.2	1.86	4	<10	410	1.0	<2	0.16	<0.5	12	69	67	3.39	10
M24364		0.30	0.4	3.45	<2	<10	640	1.6	<2	0.62	<0.5	30	271	115	3.64	10
M24365		0.26	<0.2	1.62	7	<10	250	0.7	<2	0.19	<0.5	11	53	44	2.47	10
M24366		0.26	<0.2	1.66	3	<10	130	<0.5	<2	0.23	<0.5	9	64	47	2.32	10
M24367		0.28	<0.2	2.82	6	<10	240	0.6	<2	0.37	<0.5	25	90	104	3.04	10
M24368		0.30	<0.2	1.72	4	<10	120	<0.5	<2	0.28	<0.5	17	44	77	2.21	10
M24369		0.34	0.2	1.80	<2	<10	170	<0.5	<2	0.34	<0.5	14	41	77	2.66	10
M24370		0.28	<0.2	4.07	<2	<10	500	0.6	<2	0.86	<0.5	22	83	72	4.43	20
M24371		0.30	<0.2	2.42	<2	<10	150	<0.5	<2	0.42	<0.5	35	86	116	2.85	10
M24387		0.20	0.3	2.51	3	<10	280	0.8	<2	0.22	<0.5	17	68	63	3.18	10
M24388		0.20	<0.2	1.44	<2	<10	110	<0.5	<2	0.70	<0.5	10	52	56	1.80	<10
M24389		0.26	<0.2	2.08	<2	<10	170	<0.5	<2	0.34	<0.5	16	73	62	2.85	10
M24390		0.28	0.2	2.34	<2	<10	140	0.7	2	0.39	<0.5	12	48	94	2.27	10
M24415		0.26	<0.2	2.83	3	<10	760	1.1	<2	0.14	<0.5	13	131	73	4.11	10
M24416		0.20	<0.2	1.58	5	<10	710	0.9	<2	0.12	<0.5	13	69	72	3.41	10
M24417		0.18	0.2	2.11	4	<10	380	0.7	<2	0.77	<0.5	18	104	89	2.99	10
M24418		0.22	0.2	1.40	<2	<10	530	0.8	<2	0.13	<0.5	14	51	72	2.72	10
M24419		0.32	0.2	1.92	13	<10	710	2.2	<2	0.23	<0.5	17	57	94	4.77	10
M24420		0.20	0.4	2.86	3	<10	900	1.2	<2	0.29	<0.5	25	85	100	4.98	10
M24421		0.22	0.3	2.18	<2	<10	370	1.4	<2	0.55	<0.5	29	102	96	3.58	<10
M24422		0.30	<0.2	1.77	4	<10	100	1.8	<2	0.70	<0.5	24	81	115	3.27	<10
M24423		0.24	0.3	1.61	<2	<10	100	0.7	<2	0.63	<0.5	19	79	93	2.65	<10
M24424		0.18	0.7	1.38	109	<10	240	1.6	<2	0.23	<0.5	39	91	142	7.95	<10

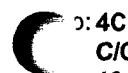


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VANCOUVER BC V6B 1L8

Page #: 6 - A
Pages: 7 (A - C)
Date: 21-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
M24425		0.22	<0.2	1.21	7	<10	100	1.1	<2	0.50	<0.5	27	53	70	3.74	<10
M24426		0.22	<0.2	2.36	<2	<10	170	0.9	<2	0.37	<0.5	16	74	65	2.77	10
M24427		0.20	0.2	1.85	<2	<10	90	<0.5	<2	0.45	<0.5	14	72	79	2.10	<10
M24428		0.20	<0.2	1.59	3	<10	100	<0.5	<2	0.30	<0.5	32	64	96	2.19	<10
M24429		0.20	<0.2	2.02	8	<10	90	0.6	<2	0.43	<0.5	28	98	80	3.16	<10
M24430		0.22	<0.2	2.34	17	<10	160	0.7	<2	0.36	<0.5	28	126	66	3.71	10
M24431		0.22	0.2	2.06	6	<10	190	0.7	<2	0.72	<0.5	22	78	67	2.31	<10
M24432		0.22	0.4	1.30	42	<10	230	1.3	<2	0.43	<0.5	54	91	122	7.20	<10
M24433		0.24	0.4	0.67	49	<10	250	0.9	<2	0.53	<0.5	27	76	65	4.37	<10
M24434		0.18	0.4	1.27	7	<10	310	0.5	<2	0.15	<0.5	14	59	63	2.88	10
M24435		0.24	0.6	1.47	6	<10	430	0.6	<2	0.11	<0.5	16	71	67	3.77	<10
M24436		0.24	0.2	1.24	5	<10	300	0.6	2	0.30	<0.5	23	57	40	3.52	<10
M24437		0.24	0.2	2.67	19	<10	190	1.2	<2	1.28	<0.5	49	219	129	6.48	10
M24438		0.28	0.2	2.43	8	<10	300	0.9	<2	1.07	<0.5	42	112	131	5.39	<10
M24439		0.14	<0.2	1.40	2	<10	150	1.0	<2	0.53	<0.5	22	53	104	2.81	<10
M24441		0.34	0.2	1.98	2	<10	140	2.0	<2	0.81	<0.5	40	69	112	5.01	10
M24442		0.24	0.4	1.27	4	<10	180	0.7	<2	0.23	<0.5	11	50	54	2.76	<10
M24443		0.20	0.2	2.05	3	<10	400	0.7	<2	0.25	<0.5	20	82	98	3.46	10
M24444		0.16	0.2	2.01	<2	<10	140	<0.5	<2	0.63	<0.5	18	121	60	2.26	<10
M24445		0.24	0.2	2.38	3	<10	340	0.7	<2	0.33	<0.5	12	58	97	3.02	10
M24446		0.24	<0.2	2.57	<2	<10	210	1.6	<2	0.49	<0.5	37	122	204	4.40	10
M24447		0.22	<0.2	1.97	<2	<10	170	1.3	<2	0.35	<0.5	19	86	77	2.83	10
M24448		0.30	0.4	2.17	2	<10	600	1.4	<2	0.42	<0.5	22	91	117	3.62	10
M24449		0.24	0.3	1.91	5	<10	660	1.2	<2	0.80	<0.5	22	67	127	4.07	10
M24450		0.38	0.3	2.00	6	<10	310	1.6	<2	0.53	<0.5	23	81	119	4.28	10
M24451		0.32	0.3	1.80	<2	<10	340	1.8	<2	0.57	<0.5	19	58	110	3.77	<10
M24452		0.22	0.2	1.49	2	<10	420	1.6	<2	0.80	<0.5	15	55	77	3.90	<10
M24453		0.40	0.5	1.35	4	<10	780	2.2	<2	1.09	<0.5	33	65	148	5.59	<10
M24454		0.30	<0.2	1.91	4	<10	140	<0.5	<2	0.50	<0.5	24	90	60	2.66	10
M24455		0.24	<0.2	1.92	4	<10	120	0.9	<2	0.38	<0.5	31	77	118	3.03	<10
M24456		0.26	0.5	1.77	<2	<10	200	0.8	<2	0.64	<0.5	15	86	60	2.41	10
M24457		0.32	<0.2	2.15	<2	<10	80	<0.5	<2	0.50	<0.5	12	48	60	2.04	10
M24458		0.24	<0.2	2.08	2	<10	50	<0.5	<2	1.08	<0.5	19	122	108	2.57	10
M24459		0.30	0.2	1.49	3	<10	200	0.6	<2	0.41	<0.5	14	63	70	3.57	10
M24460		0.38	<0.2	2.30	2	<10	140	0.6	<2	0.43	<0.5	17	73	69	3.00	10
M24461		0.30	<0.2	2.12	<2	<10	70	<0.5	<2	0.89	<0.5	19	47	114	1.93	10
M24462		0.30	<0.2	1.61	2	<10	90	<0.5	<2	0.55	<0.5	16	63	80	1.90	<10
M24463		0.30	<0.2	2.54	2	<10	70	<0.5	<2	0.68	<0.5	15	78	91	2.33	10
M24464		0.24	0.2	2.38	2	<10	70	0.8	<2	0.22	<0.5	18	58	93	4.95	10
M24465		0.30	<0.2	2.26	<2	<10	60	<0.5	<2	0.67	<0.5	22	36	65	2.02	10



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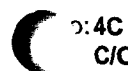
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Page #: 7 - A

Date : 21-Aug-2003

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Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

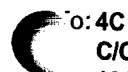
Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
M24466		0.40	<0.2	1.66	<2	<10	180	<0.5	<2	1.30	<0.5	25	98	103	2.81	<10
M24467		0.30	0.2	2.10	<2	<10	40	<0.5	<2	0.66	<0.5	14	54	93	2.29	10
M24468		0.28	<0.2	2.12	3	<10	90	0.5	<2	0.54	<0.5	16	58	71	2.44	10
M24469		0.26	0.3	1.61	<2	<10	40	<0.5	<2	0.45	<0.5	9	52	58	1.60	<10
M24470		0.26	<0.2	2.13	<2	10	210	0.6	<2	0.50	<0.5	21	81	69	3.58	10
M24471		0.22	<0.2	1.33	<2	<10	60	<0.5	<2	0.42	<0.5	7	34	45	1.44	<10
M24472		0.24	0.2	1.83	<2	<10	70	<0.5	<2	0.69	<0.5	10	53	55	2.08	10
M24473		0.24	0.4	2.53	<2	<10	330	0.8	<2	0.66	<0.5	14	56	64	2.87	10
M24474		0.16	0.2	2.47	2	<10	400	0.8	<2	0.30	0.5	16	71	74	3.19	10
M24475		0.28	<0.2	1.21	6	<10	300	1.1	<2	0.13	<0.5	11	55	78	3.73	10
M24476		0.24	<0.2	2.55	2	<10	310	0.8	<2	0.22	<0.5	12	76	52	3.35	10



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Page #: 2 - B
Pages: 7 (A - C)
Date: 21-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB09801		<1	0.07	10	0.50	299	<1	0.03	26	310	3	0.02	<2	4	9	0.09
BB09883		<1	0.04	10	0.31	928	<1	0.01	63	520	3	0.01	<2	31	15	<0.01
BB09924		<1	0.33	<10	1.69	592	<1	0.04	177	610	<2	0.02	<2	10	10	0.21
BB09925		<1	0.14	<10	0.82	528	<1	0.03	59	640	<2	0.03	<2	15	8	0.10
BB09926		<1	0.05	<10	0.73	158	<1	0.04	41	460	<2	0.07	<2	5	7	0.05
BB09927		<1	0.11	<10	1.09	432	<1	0.06	59	670	<2	0.02	2	12	12	0.09
BB09928		<1	0.06	<10	1.12	326	<1	0.05	64	550	5	0.06	<2	10	9	0.07
BB09929		<1	0.02	<10	0.42	224	<1	0.04	40	500	<2	0.04	<2	3	12	0.03
BB09930		<1	0.18	<10	1.85	431	<1	0.06	51	510	<2	0.03	<2	9	12	0.11
BB09931		<1	0.10	<10	0.99	273	<1	0.06	47	570	3	0.04	<2	4	17	0.13
BB09932		<1	0.28	<10	2.45	312	<1	0.05	83	560	<2	0.09	<2	8	9	0.16
BB09933		<1	0.20	<10	1.72	227	<1	0.06	46	680	<2	0.29	<2	12	7	0.12
BB09934		<1	0.34	<10	1.71	976	<1	0.03	56	620	3	0.02	<2	22	10	0.15
BB09935		<1	0.35	<10	1.51	396	<1	0.07	50	460	<2	0.03	<2	8	12	0.21
BB09936		<1	0.33	<10	1.58	535	<1	0.06	53	510	2	0.04	<2	10	11	0.18
BB09937		<1	0.08	10	0.77	353	<1	0.03	36	520	3	0.04	<2	4	7	0.08
BB09938		<1	0.06	<10	0.91	356	<1	0.04	63	510	<2	0.10	<2	7	8	0.06
BB09939		<1	0.06	<10	1.10	364	<1	0.04	60	460	<2	0.04	<2	7	6	0.08
BB09940		<1	0.06	<10	0.94	391	<1	0.03	50	480	<2	0.03	<2	8	7	0.06
BB09941		<1	0.03	<10	0.54	145	<1	0.03	29	380	<2	0.05	<2	2	6	0.10
BB09942		<1	0.10	<10	2.15	361	<1	0.04	81	550	2	0.07	<2	7	7	0.12
BB09943		<1	0.07	<10	0.57	189	<1	0.04	25	640	5	0.04	<2	2	7	0.09
BB09944		<1	0.04	<10	0.66	297	<1	0.04	46	650	4	0.07	<2	2	10	0.06
BB09945		<1	0.11	10	0.79	1070	<1	0.04	146	850	3	0.03	11	34	20	0.02
BB09946		<1	0.03	<10	0.34	239	<1	0.05	24	440	<2	0.02	<2	2	21	0.03
BB09947		<1	0.03	<10	0.42	224	<1	0.04	24	490	<2	0.01	<2	4	8	0.05
BB09948		<1	0.02	<10	0.27	328	<1	0.02	44	380	<2	0.03	<2	8	6	0.03
BB09949		<1	0.02	<10	0.54	222	<1	0.03	49	490	2	0.04	<2	3	6	0.05
BB09950		<1	0.29	<10	2.12	218	<1	0.11	62	730	<2	0.02	<2	5	20	0.16
BB09951		<1	0.15	<10	1.41	365	<1	0.05	42	760	<2	0.04	<2	6	18	0.13
BB09952		<1	0.25	<10	0.89	580	<1	0.06	40	800	2	0.01	<2	8	12	0.05
BB09953		<1	0.22	10	0.90	480	<1	0.05	45	360	4	0.02	<2	5	13	0.09
BB09954		<1	0.13	10	0.67	311	<1	0.03	36	720	6	0.07	<2	4	10	0.08
BB09955		<1	0.14	20	0.26	702	1	0.01	51	530	12	0.03	<2	4	8	0.03
BB09956		<1	0.21	<10	0.93	568	<1	0.09	48	740	<2	<0.01	<2	13	23	0.04
BB09957		<1	0.10	<10	0.54	549	<1	0.06	45	710	3	0.03	<2	12	16	0.05
BB09958		<1	0.26	<10	1.89	387	<1	0.05	61	870	2	0.05	<2	9	22	0.13
BB09959		<1	0.09	<10	0.99	654	<1	0.05	57	1680	2	0.04	<2	8	15	0.06
BB09960		<1	0.08	<10	0.77	372	<1	0.05	31	980	3	0.07	<2	2	14	0.06
BB09961		<1	0.13	10	0.84	556	<1	0.03	42	1180	2	0.08	<2	5	13	0.11



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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED Total # of Pages : 7 (A - C)
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 3 - B
Date : 21-Aug-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB09962		<1	0.18	<10	1.57	497	<1	0.04	56	750	<2	0.02	<2	11	22	0.18
BB09963		<1	0.22	<10	1.49	728	<1	0.04	50	830	<2	0.02	<2	16	19	0.15
BB09964		<1	0.21	<10	1.27	747	<1	0.03	44	780	<2	0.01	<2	16	14	0.12
BB09965		<1	0.66	<10	2.30	837	<1	0.05	57	650	2	0.01	<2	28	32	0.05
BB09966		<1	0.19	<10	0.85	565	<1	0.06	50	520	3	0.03	<2	10	11	0.09
BB09967		<1	0.26	<10	0.93	960	<1	0.05	73	660	<2	0.01	<2	19	10	0.09
BB09968		<1	0.09	20	0.49	1330	1	0.02	102	1190	5	0.07	2	11	14	0.03
BB09969		<1	0.11	10	0.51	1535	<1	0.03	97	710	3	0.02	<2	19	13	0.05
BB09970		<1	0.16	10	0.57	1640	<1	0.01	122	730	4	0.01	3	29	7	0.02
BB09971		<1	0.22	10	0.84	1640	<1	0.04	154	990	3	0.02	3	22	19	0.04
BB09972		<1	0.18	10	0.26	972	1	0.01	52	740	10	0.04	<2	5	20	0.04
BB09973		<1	0.14	10	0.45	946	1	0.01	50	650	9	0.03	<2	5	14	0.07
BB27370		<1	0.07	10	4.88	855	<1	0.01	1265	210	11	0.01	<2	6	26	0.06
BB33961		<1	0.15	10	0.62	1165	<1	0.01	82	480	3	0.07	4	40	18	<0.01
M24277		<1	0.04	<10	0.94	314	<1	0.03	72	530	<2	0.04	<2	8	7	0.05
M24278		<1	0.10	<10	1.04	313	<1	0.07	75	630	<2	0.01	<2	5	22	0.11
M24279		<1	0.26	<10	1.14	469	<1	0.04	56	660	<2	0.01	<2	6	5	0.18
M24280		<1	0.14	<10	1.27	538	<1	0.02	72	550	3	0.02	<2	9	6	0.14
M24281		<1	0.23	<10	1.44	506	<1	0.02	122	560	<2	0.01	<2	7	6	0.22
M24282		<1	0.03	10	3.71	1125	<1	0.01	1670	460	4	0.05	<2	6	7	0.03
M24283		<1	0.02	10	7.05	1380	<1	0.01	1875	280	5	0.03	<2	5	6	0.02
M24284		<1	0.07	<10	0.84	290	<1	0.03	66	420	<2	0.02	<2	4	8	0.07
M24285		<1	0.03	<10	0.71	244	<1	0.09	53	580	5	0.03	2	4	15	0.06
M24286		<1	0.08	<10	1.17	234	<1	0.04	95	560	<2	0.05	<2	5	10	0.08
M24287		<1	0.03	<10	0.55	106	<1	0.04	30	340	2	0.10	<2	3	8	0.06
M24289		<1	0.03	<10	0.51	486	<1	0.02	43	450	3	0.04	<2	4	7	0.06
M24290		<1	0.14	<10	0.58	297	<1	0.03	36	590	<2	0.03	<2	3	8	0.11
M24291		<1	0.39	<10	0.87	311	<1	0.03	43	430	2	0.07	<2	4	6	0.16
M24292		<1	0.06	<10	5.82	555	<1	0.01	856	270	4	0.02	<2	5	7	0.12
M24293		<1	0.26	<10	3.65	529	<1	0.02	434	410	<2	0.01	<2	4	21	0.19
M24294		<1	0.02	10	2.71	561	<1	0.01	632	300	5	0.03	<2	4	12	0.04
M24295		<1	0.02	10	4.38	398	<1	0.02	536	370	<2	0.02	<2	4	9	0.03
M24296		<1	0.03	10	4.53	633	<1	0.02	570	390	3	0.04	<2	4	9	0.03
M24297		<1	0.04	10	7.16	780	<1	0.02	873	250	4	0.03	<2	4	8	0.03
M24298		<1	0.07	10	1.13	200	<1	0.02	90	350	3	0.04	<2	2	7	0.15
M24299		<1	0.04	<10	0.72	134	<1	0.02	84	460	2	0.02	<2	2	7	0.08
M24300		<1	0.06	<10	1.09	205	<1	0.03	134	370	2	0.01	<2	3	8	0.10
M24301		<1	0.37	10	0.90	314	<1	0.02	40	460	<2	0.05	<2	5	5	0.17
M24302		<1	0.05	<10	0.67	130	<1	0.04	31	380	<2	0.12	<2	3	6	0.07
M24303		<1	0.13	<10	1.28	224	<1	0.03	77	610	<2	0.05	<2	5	9	0.13



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Page #: 4 - B
Pages : 7 (A - C)
Date : 21-Aug-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
M24304		<1	0.02	<10	0.45	128	<1	0.03	59	320	<2	0.05	<2	2	6	0.05
M24305		<1	0.04	<10	0.82	219	<1	0.06	44	550	<2	0.02	<2	3	25	0.07
M24306		<1	0.05	<10	0.93	443	<1	0.04	64	460	5	0.03	<2	4	28	0.06
M24307		<1	0.01	<10	0.25	383	<1	0.03	27	480	<2	0.05	<2	1	6	0.03
M24308		<1	0.03	<10	0.35	240	<1	0.02	23	340	2	0.02	<2	2	8	0.04
M24309		<1	0.11	10	1.21	563	<1	0.03	46	610	3	0.02	<2	6	16	0.07
M24310		<1	0.49	10	1.40	757	<1	0.03	59	480	5	0.02	<2	8	10	0.15
M24311		<1	0.03	<10	0.42	122	<1	0.02	17	290	2	0.02	<2	1	8	0.07
M24312		<1	0.01	<10	0.32	100	<1	0.02	18	220	<2	0.02	<2	1	8	0.04
M24313		<1	0.01	<10	0.40	148	<1	0.03	34	390	3	0.03	<2	2	8	0.03
M24314		<1	0.06	<10	0.63	340	<1	0.06	46	630	<2	0.02	<2	4	42	0.04
M24315		<1	0.03	<10	0.49	136	1	0.07	32	540	8	0.02	<2	2	20	0.05
M24316		<1	0.03	<10	0.48	226	<1	0.05	39	560	<2	0.02	<2	2	23	0.04
M24317		<1	0.04	<10	0.58	343	<1	0.04	67	600	<2	0.06	<2	3	17	0.04
M24318		<1	0.03	<10	0.51	121	<1	0.04	43	540	2	0.10	<2	2	9	0.04
M24319		<1	0.03	<10	0.47	207	<1	0.02	44	380	2	0.05	<2	2	4	0.05
M24320		<1	0.02	<10	0.23	270	<1	0.02	27	200	<2	0.01	<2	1	3	0.06
M24321		<1	0.04	<10	0.47	182	<1	0.02	51	400	<2	0.03	<2	2	4	0.08
M24322		<1	0.03	10	3.46	350	<1	0.02	467	260	5	0.02	<2	4	9	0.05
M24323		<1	0.02	<10	10.45	738	<1	0.01	1515	460	3	0.04	<2	6	5	0.02
M24324		<1	0.02	<10	1.26	234	<1	0.02	188	310	4	0.03	<2	2	5	0.05
M24325		<1	0.02	<10	0.31	80	<1	0.02	32	400	3	0.05	<2	1	6	0.04
M24326		<1	0.02	<10	0.20	49	1	0.02	19	320	4	0.04	<2	<1	4	0.04
M24327		<1	0.04	<10	0.45	113	1	0.03	40	500	<2	0.09	<2	2	9	0.05
M24328		<1	0.04	<10	0.51	212	<1	0.03	44	420	<2	0.06	<2	2	12	0.06
M24329		<1	0.03	<10	0.44	170	<1	0.05	43	600	<2	0.02	<2	2	21	0.05
M24330		<1	0.02	<10	0.29	76	<1	0.03	23	350	<2	0.03	<2	1	13	0.05
M24331		<1	0.01	<10	0.11	32	<1	0.02	8	170	<2	0.02	<2	1	6	0.06
M24332		<1	0.02	<10	0.31	102	<1	0.02	23	490	2	0.05	<2	1	7	0.02
M24333		<1	0.03	<10	0.50	136	<1	0.02	26	250	2	0.02	<2	2	16	0.05
M24334		<1	0.07	<10	0.93	405	<1	0.02	29	450	3	0.03	<2	2	21	0.06
M24335		<1	0.11	10	0.99	259	<1	0.05	35	510	2	0.03	2	4	14	0.08
M24336		<1	0.10	<10	1.18	230	<1	0.04	41	350	2	0.01	<2	3	18	0.09
M24337		<1	0.09	10	0.86	240	<1	0.06	44	480	2	0.03	<2	3	20	0.09
M24338		<1	0.11	10	0.72	551	<1	0.05	54	550	<2	0.02	<2	12	13	0.07
M24339		<1	0.05	<10	0.74	338	<1	0.03	49	650	2	0.03	<2	3	13	0.07
M24340		<1	0.06	<10	0.65	288	<1	0.04	24	600	2	0.03	<2	2	16	0.07
M24341		<1	0.06	10	0.52	298	<1	0.04	25	730	4	0.05	<2	1	14	0.04
M24343		<1	0.05	10	0.39	462	1	0.03	26	1100	6	0.12	<2	1	20	0.04
M24344		<1	0.10	10	0.37	158	<1	0.03	18	510	3	0.03	<2	1	12	0.06



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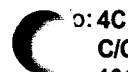
EXCELLENCE IN ANALYTICAL CHEMISTRY

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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED Total # of

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 5 - B

Pages: 7 (A - C)

Date: 21-Aug-2003

Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
M24345		<1	0.04	<10	0.61	138	<1	0.04	23	430	<2	0.01	<2	2	15	0.07
M24346		<1	0.01	<10	0.29	62	<1	0.01	16	430	<2	<0.01	<2	1	2	0.04
M24347		<1	0.01	<10	0.32	74	<1	0.02	22	380	2	0.03	<2	2	6	0.03
M24348		<1	0.02	<10	0.30	70	<1	0.02	22	270	2	0.02	2	2	6	0.05
M24350		<1	0.05	<10	0.53	130	<1	0.04	33	660	2	0.01	<2	2	9	0.08
M24351		<1	0.02	<10	0.37	96	<1	0.03	31	450	3	0.02	<2	2	7	0.06
M24352		<1	0.05	<10	0.55	163	<1	0.02	34	530	4	0.02	<2	2	8	0.07
M24353		<1	0.03	<10	0.42	159	<1	0.02	26	430	4	0.03	<2	1	8	0.05
M24354		<1	0.03	<10	0.32	113	<1	0.01	15	460	<2	0.01	<2	1	7	0.04
M24355		<1	0.24	10	1.12	697	<1	0.03	54	730	6	0.01	<2	11	29	0.12
M24356		<1	0.10	10	1.08	457	<1	0.04	44	700	3	0.01	<2	7	21	0.11
M24357		<1	0.11	10	1.20	389	<1	0.04	52	630	3	0.01	<2	7	39	0.14
M24358		<1	0.14	10	0.51	923	<1	0.01	50	630	8	0.01	<2	5	8	0.08
M24359		<1	0.11	20	0.61	621	1	0.01	43	570	9	0.01	<2	4	12	0.09
M24360		<1	0.11	20	0.44	531	2	0.01	29	540	11	0.04	<2	2	9	0.06
M24361		<1	0.17	10	0.42	667	1	0.01	27	580	5	0.04	<2	2	6	0.06
M24362		<1	0.47	30	1.13	1570	1	0.01	72	870	12	0.03	<2	8	13	0.18
M24363		<1	0.24	20	0.78	720	1	0.01	45	790	9	0.03	<2	5	9	0.13
M24364		<1	0.26	20	2.36	1470	<1	0.02	149	790	4	0.01	<2	9	18	0.17
M24365		<1	0.14	10	0.70	484	<1	0.01	38	480	7	0.02	<2	4	10	0.10
M24366		1	0.05	10	0.65	247	<1	0.02	35	690	5	0.07	<2	1	10	0.09
M24367		<1	0.12	10	1.20	407	<1	0.02	55	290	7	0.02	<2	6	17	0.13
M24368		<1	0.04	10	0.67	224	<1	0.02	34	310	2	0.02	<2	3	13	0.07
M24369		<1	0.17	10	0.75	425	<1	0.02	26	430	5	0.02	<2	4	12	0.14
M24370		<1	0.90	30	1.88	985	<1	0.02	42	1540	6	0.01	2	14	21	0.41
M24371		<1	0.19	10	1.25	398	<1	0.03	78	860	3	0.02	<2	5	14	0.18
M24387		<1	0.13	10	0.67	1170	2	0.02	42	670	7	0.06	<2	4	17	0.15
M24388		<1	0.05	<10	0.63	258	<1	0.04	25	660	4	0.08	<2	3	20	0.08
M24389		<1	0.04	10	0.71	320	<1	0.03	48	610	3	0.04	<2	4	13	0.08
M24390		<1	0.03	10	0.51	574	<1	0.02	26	1140	4	0.09	<2	2	14	0.04
M24415		<1	0.68	10	1.50	745	<1	0.01	82	710	12	0.03	<2	9	7	0.21
M24416		<1	0.36	10	0.57	1495	1	0.01	43	1080	10	0.08	<2	4	9	0.10
M24417		<1	0.09	10	0.95	586	<1	0.05	73	810	3	0.07	<2	7	22	0.07
M24418		<1	0.25	10	0.54	996	1	0.01	43	790	11	0.05	<2	3	7	0.10
M24419		<1	0.31	20	0.70	1720	1	0.01	62	890	19	0.04	<2	11	23	0.13
M24420		<1	0.38	20	1.08	1790	<1	0.02	74	940	9	0.02	<2	11	22	0.22
M24421		<1	0.20	10	1.07	717	<1	0.04	85	620	<2	0.02	<2	10	14	0.12
M24422		<1	0.20	<10	1.02	618	<1	0.04	56	680	<2	0.01	<2	11	13	0.10
M24423		<1	0.11	<10	0.91	332	<1	0.04	55	530	2	0.03	<2	6	13	0.09
M24424		<1	0.05	<10	0.66	1345	<1	0.01	78	680	15	0.04	4	29	14	0.01



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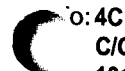
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Page #: 6 - B

Pages: 7 (A - C)

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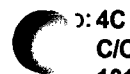
CERTIFICATE OF ANALYSIS

VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
M24425		<1	0.03	<10	0.55	823	<1	0.02	47	480	<2	0.03	<2	15	10	0.02
M24426		<1	0.19	10	0.93	373	<1	0.03	45	580	3	0.03	<2	5	12	0.10
M24427		<1	0.14	<10	0.97	278	<1	0.04	35	550	<2	0.03	<2	3	28	0.12
M24428		<1	0.24	<10	0.93	190	<1	0.04	83	490	<2	0.08	<2	2	24	0.14
M24429		<1	0.10	<10	1.18	488	<1	0.03	72	570	<2	0.04	<2	6	12	0.10
M24430		<1	0.07	10	1.12	1100	<1	0.01	50	880	5	0.05	<2	8	12	0.03
M24431		1	0.04	<10	0.84	775	<1	0.05	40	770	<2	0.07	<2	5	23	0.03
M24432		<1	0.06	<10	0.82	2270	<1	0.01	93	590	<2	0.04	6	30	15	0.01
M24433		<1	0.07	10	0.26	886	1	<0.01	227	750	16	0.08	12	9	29	<0.01
M24434		<1	0.13	10	0.53	875	1	0.01	40	870	7	0.08	<2	3	8	0.07
M24435		<1	0.18	10	0.56	1550	1	0.01	51	770	10	0.06	<2	5	11	0.09
M24436		<1	0.06	10	0.26	4230	1	0.01	28	2770	7	0.18	<2	4	19	0.04
M24437		<1	0.07	10	1.91	1680	<1	0.04	150	660	<2	0.08	<2	29	22	0.01
M24438		<1	0.09	10	1.18	1340	<1	0.04	75	560	3	0.03	<2	23	15	0.04
M24439		<1	0.08	<10	0.92	557	<1	0.02	45	580	2	0.02	<2	9	13	0.07
M24441		<1	0.12	<10	0.65	619	<1	0.01	63	580	<2	0.04	<2	20	19	0.02
M24442		<1	0.05	10	0.42	787	<1	0.02	40	740	4	0.05	<2	3	12	0.04
M24443		<1	0.16	10	1.02	1080	1	0.02	71	470	5	0.03	<2	7	11	0.14
M24444		<1	0.11	<10	1.00	383	<1	0.08	56	590	<2	0.04	<2	4	27	0.14
M24445		<1	0.41	10	0.89	348	<1	0.03	39	770	10	0.06	<2	4	13	0.15
M24446		<1	0.26	<10	1.38	716	<1	0.03	86	450	<2	0.03	<2	11	16	0.22
M24447		<1	0.18	10	1.00	614	<1	0.02	68	540	<2	0.04	<2	4	12	0.14
M24448		<1	0.25	10	1.03	1195	<1	0.03	87	700	5	0.03	<2	6	20	0.14
M24449		<1	0.16	20	0.95	1235	1	0.02	58	920	8	0.07	<2	7	29	0.09
M24450		<1	0.14	10	1.04	726	2	0.02	65	640	9	0.04	<2	9	16	0.09
M24451		<1	0.06	10	0.65	1015	1	0.02	56	700	4	0.03	<2	9	27	0.07
M24452		<1	0.10	20	0.51	1090	<1	0.03	53	900	7	0.05	2	10	34	0.08
M24453		<1	0.14	20	0.53	2750	1	0.03	92	1040	12	0.03	<2	17	72	0.09
M24454		<1	0.07	<10	1.23	338	<1	0.03	72	440	<2	0.04	<2	4	14	0.11
M24455		<1	0.12	<10	1.01	349	<1	0.03	65	330	<2	0.04	<2	4	10	0.18
M24456		<1	0.07	10	0.66	753	1	0.04	40	1370	5	0.11	<2	2	23	0.06
M24457		<1	0.07	<10	0.76	244	<1	0.03	31	390	2	0.04	<2	3	17	0.10
M24458		<1	0.16	<10	1.38	511	<1	0.06	41	550	3	0.05	<2	6	11	0.18
M24459		<1	0.07	20	0.65	1070	1	0.03	44	1020	5	0.03	<2	5	11	0.09
M24460		<1	0.06	10	0.88	471	<1	0.03	49	620	2	0.02	<2	5	15	0.08
M24461		<1	0.07	<10	0.81	353	<1	0.06	45	640	2	0.03	<2	4	23	0.07
M24462		<1	0.06	<10	0.85	243	<1	0.04	47	550	2	0.04	<2	3	13	0.10
M24463		<1	0.08	<10	1.08	354	<1	0.04	35	550	2	0.03	<2	4	14	0.16
M24464		<1	0.08	30	0.74	703	2	<0.01	49	530	12	0.04	<2	5	9	0.01
M24465		<1	0.03	<10	0.67	281	<1	0.04	34	460	<2	0.04	<2	3	20	0.09



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Page #: 7 - B
Pages: 7 (A - C)
Date: 21-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS **VA03030225**

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
M24466		<1	0.13	<10	0.87	618	<1	0.06	76	490	<2	0.01	<2	10	23	0.08
M24467		<1	0.08	<10	0.75	436	<1	0.05	26	540	<2	0.05	<2	4	16	0.08
M24468		<1	0.07	10	0.82	323	<1	0.04	39	450	<2	0.04	<2	4	19	0.09
M24469		<1	0.04	<10	0.60	173	<1	0.05	20	460	<2	0.06	<2	2	10	0.08
M24470		<1	0.05	<10	0.66	698	<1	0.03	53	750	2	0.03	<2	8	15	0.07
M24471		<1	0.03	<10	0.45	156	<1	0.03	24	490	<2	0.04	<2	1	11	0.05
M24472		<1	0.08	<10	0.68	340	<1	0.03	27	570	3	0.06	<2	3	14	0.10
M24473		<1	0.27	10	0.80	555	<1	0.03	41	770	3	0.10	<2	4	42	0.18
M24474		<1	0.22	10	0.82	1035	1	0.02	53	800	6	0.07	<2	5	29	0.17
M24475		<1	0.11	10	0.42	906	1	0.01	48	590	10	0.05	<2	4	17	0.08
M24476		<1	0.19	10	0.76	806	1	0.02	36	730	6	0.06	<2	4	20	0.14



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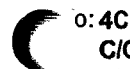
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Page #: 2 - C
Pages: 7 (A - C)
Date: 21-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB09801		<10	<10	68	<10	33
BB09883		<10	<10	153	<10	34
BB09924		<10	<10	89	<10	45
BB09925		<10	<10	93	<10	50
BB09926		<10	<10	46	<10	106
BB09927		<10	<10	72	<10	41
BB09928		<10	<10	77	<10	93
BB09929		<10	<10	36	<10	140
BB09930		<10	<10	64	<10	47
BB09931		<10	<10	51	<10	27
BB09932		<10	<10	109	<10	104
BB09933		<10	<10	121	<10	218
BB09934		<10	<10	127	<10	66
BB09935		<10	<10	90	<10	41
BB09936		<10	<10	109	<10	45
BB09937		<10	<10	68	<10	43
BB09938		<10	<10	62	<10	177
BB09939		<10	<10	64	<10	83
BB09940		<10	<10	70	<10	46
BB09941		<10	<10	45	<10	31
BB09942		<10	<10	98	<10	76
BB09943		<10	<10	39	<10	38
BB09944		<10	<10	52	<10	34
BB09945		<10	<10	139	<10	74
BB09946		<10	<10	27	<10	25
BB09947		<10	<10	29	<10	24
BB09948		<10	<10	40	<10	23
BB09949		<10	<10	37	<10	26
BB09950		<10	<10	72	<10	32
BB09951		<10	<10	80	<10	35
BB09952		<10	<10	52	<10	29
BB09953		<10	<10	62	<10	49
BB09954		<10	<10	67	<10	45
BB09955		<10	<10	82	<10	123
BB09956		<10	<10	49	<10	32
BB09957		<10	<10	76	<10	49
BB09958		<10	<10	71	<10	40
BB09959		<10	<10	87	<10	81
BB09960		<10	<10	57	<10	34
BB09961		<10	<10	74	<10	50



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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 3 - C
Pages: 7 (A - C)
Date: 21-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS

VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
BB09962		<10	<10	93	<10	50
BB09963		<10	<10	99	<10	54
BB09964		<10	<10	89	<10	45
BB09965		<10	<10	112	<10	50
BB09966		<10	<10	67	<10	39
BB09967		<10	<10	90	<10	57
BB09968		<10	<10	95	<10	75
BB09969		<10	<10	115	<10	70
BB09970		<10	<10	124	<10	76
BB09971		<10	<10	105	<10	77
BB09972		<10	<10	67	<10	122
BB09973		<10	<10	74	<10	100
BB27370		<10	<10	45	<10	46
BB33961		<10	<10	103	<10	70
M24277		<10	<10	70	<10	304
M24278		<10	<10	44	<10	28
M24279		<10	<10	68	<10	38
M24280		<10	<10	79	<10	34
M24281		<10	<10	90	<10	46
M24282		<10	<10	37	<10	59
M24283		<10	<10	31	<10	38
M24284		<10	<10	44	<10	43
M24285		<10	<10	49	<10	49
M24286		<10	<10	49	<10	110
M24287		<10	<10	42	<10	33
M24289		<10	<10	51	<10	24
M24290		<10	<10	47	<10	25
M24291		<10	<10	63	<10	32
M24292		<10	<10	57	<10	47
M24293		<10	<10	59	<10	26
M24294		<10	<10	28	<10	26
M24295		<10	<10	29	<10	34
M24296		<10	<10	29	<10	39
M24297		<10	<10	27	<10	34
M24298		<10	<10	66	<10	61
M24299		<10	<10	37	<10	20
M24300		<10	<10	41	<10	18
M24301		<10	<10	78	<10	40
M24302		<10	<10	46	<10	39
M24303		<10	<10	67	<10	68



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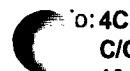
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Page #: 4 - C

Pages : 7 (A - C)

Date : 21-Aug-2003

Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
M24304		<10	<10	38	<10	85
M24305		<10	<10	34	<10	21
M24306		<10	<10	43	<10	28
M24307		<10	<10	35	<10	133
M24308		<10	<10	34	<10	15
M24309		<10	<10	78	<10	45
M24310		<10	<10	96	<10	70
M24311		<10	<10	33	<10	16
M24312		<10	<10	27	<10	13
M24313		<10	<10	47	<10	97
M24314		<10	<10	47	<10	24
M24315		<10	<10	25	<10	18
M24316		<10	<10	30	<10	20
M24317		<10	<10	41	<10	95
M24318		<10	<10	37	<10	61
M24319		<10	<10	39	<10	33
M24320		<10	<10	22	<10	12
M24321		<10	<10	44	<10	27
M24322		<10	<10	31	<10	35
M24323		<10	<10	26	<10	39
M24324		<10	<10	38	<10	41
M24325		<10	<10	30	<10	50
M24326		<10	<10	25	<10	26
M24327		<10	<10	38	<10	75
M24328		<10	<10	33	<10	69
M24329		<10	<10	25	<10	16
M24330		<10	<10	23	<10	15
M24331		<10	<10	17	<10	6
M24332		<10	<10	29	<10	28
M24333		<10	<10	29	<10	12
M24334		<10	<10	43	<10	29
M24335		<10	<10	56	<10	35
M24336		<10	<10	47	<10	25
M24337		<10	<10	46	<10	28
M24338		<10	<10	77	<10	45
M24339		<10	<10	50	<10	33
M24340		<10	<10	42	<10	34
M24341		<10	<10	35	<10	44
M24343		<10	<10	33	<10	41
M24344		<10	<10	34	<10	29



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1016-510 W HASTINGS ST

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Page #: 5 - C
Date : 21-Aug-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
M24345		<10	<10	36	<10	28
M24346		<10	<10	18	<10	8
M24347		<10	<10	29	<10	24
M24348		<10	<10	25	<10	41
M24350		<10	<10	26	<10	24
M24351		<10	<10	25	<10	30
M24352		<10	<10	36	<10	42
M24353		<10	<10	35	<10	36
M24354		<10	<10	21	<10	12
M24355		<10	<10	88	<10	63
M24356		<10	<10	62	<10	41
M24357		<10	<10	57	<10	40
M24358		<10	<10	58	<10	73
M24359		<10	<10	59	<10	84
M24360		<10	<10	57	<10	71
M24361		<10	<10	53	<10	68
M24362		<10	<10	124	<10	142
M24363		<10	<10	90	<10	101
M24364		<10	<10	92	<10	71
M24365		<10	<10	62	<10	70
M24366		<10	<10	54	<10	42
M24367		<10	<10	78	<10	57
M24368		<10	<10	50	<10	45
M24369		<10	<10	70	<10	62
M24370		<10	<10	168	<10	76
M24371		<10	<10	71	<10	120
M24387		<10	<10	85	<10	74
M24388		<10	<10	45	<10	27
M24389		<10	<10	60	<10	34
M24390		<10	<10	50	<10	27
M24415		<10	<10	112	<10	101
M24416		<10	<10	99	<10	104
M24417		<10	<10	75	<10	54
M24418		<10	<10	83	<10	89
M24419		<10	<10	114	<10	144
M24420		<10	<10	133	<10	129
M24421		<10	<10	77	<10	47
M24422		<10	<10	65	<10	44
M24423		<10	<10	56	<10	34
M24424		<10	<10	175	<10	118

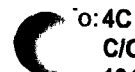


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Page #: 6 - C
Pages: 7 (A - C)
Date: 21-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
M24425		<10	<10	86	<10	41
M24426		<10	<10	61	<10	58
M24427		<10	<10	48	<10	30
M24428		<10	<10	48	<10	24
M24429		<10	<10	72	<10	44
M24430		<10	<10	89	<10	62
M24431		<10	<10	56	<10	32
M24432		<10	<10	162	<10	128
M24433		<10	<10	65	<10	84
M24434		<10	<10	77	<10	70
M24435		<10	<10	102	<10	102
M24436		<10	<10	85	<10	52
M24437		<10	<10	159	<10	65
M24438		<10	<10	117	<10	74
M24439		<10	<10	68	<10	66
M24441		<10	<10	104	<10	52
M24442		<10	<10	64	<10	64
M24443		<10	<10	99	<10	96
M24444		<10	<10	62	<10	31
M24445		<10	<10	81	<10	67
M24446		<10	<10	105	<10	51
M24447		<10	<10	72	<10	59
M24448		<10	<10	85	<10	86
M24449		<10	<10	101	<10	99
M24450		<10	<10	91	<10	87
M24451		<10	<10	87	<10	79
M24452		<10	<10	84	<10	85
M24453		<10	<10	119	<10	154
M24454		<10	<10	62	<10	32
M24455		<10	<10	63	<10	35
M24456		<10	<10	58	<10	37
M24457		<10	<10	53	<10	29
M24458		<10	<10	60	<10	41
M24459		<10	<10	69	<10	70
M24460		<10	<10	63	<10	51
M24461		<10	<10	45	<10	29
M24462		<10	<10	44	<10	30
M24463		<10	<10	55	<10	43
M24464		<10	<10	103	<10	134
M24465		<10	<10	48	<10	25

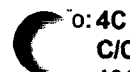


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Page #: 7 - C
Pages : 7 (A - C)
Date : 21-Aug-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03030225

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
M24466		<10	<10	49	<10	26
M24467		<10	<10	56	<10	34
M24468		<10	<10	59	<10	39
M24469		<10	<10	37	<10	23
M24470		<10	<10	71	<10	43
M24471		<10	<10	34	<10	16
M24472		<10	<10	54	<10	40
M24473		<10	<10	80	<10	63
M24474		<10	<10	90	<10	101
M24475		<10	<10	77	<10	112
M24476		<10	<10	90	<10	78



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Page # : 1
Date : 12-Aug-2003
Account: FOURC

CERTIFICATE VA03029061

Project : 4C West Block

P.O. No:

This report is for 20 PULP samples submitted to our lab in North Vancouver, BC, Canada on 4-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: 4C
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

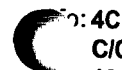


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Page #: 2 - A

es : 2 (A - D)

Date : 12-Aug-2003

Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03029061

Sample Description	Method Analyte Units LOR	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
BB27306		0.12	8.05	3.0	180	0.73	0.06	5.42	0.17	20.9	42.6	126	2.49	106.0	7.69	17.50
BB27307		0.07	7.97	1.6	220	0.60	0.05	5.65	0.11	19.95	38.4	152	1.24	47.5	6.29	16.05
BB27308		0.10	7.07	3.3	360	0.70	0.13	4.35	0.17	31.9	31.5	162	2.19	40.6	6.46	17.30
BB27309		0.10	6.60	1.1	460	0.89	0.15	4.44	0.37	39.3	33.7	131	3.35	45.8	6.27	16.95
BB27310		0.16	6.47	2.3	590	1.53	0.13	2.35	0.65	39.4	24.1	69	7.40	61.6	3.09	11.00
BB27311		0.10	8.48	2.7	910	1.69	0.15	4.42	0.23	33.3	42.0	178	9.31	76.0	6.62	17.35
BB27312		0.09	7.85	0.5	530	0.94	0.08	4.93	0.16	27.0	42.5	152	4.06	108.5	6.60	16.60
BB27313		0.14	6.97	1.1	510	0.81	0.10	4.44	0.34	27.1	34.5	134	3.99	80.2	6.06	15.55
BB27314		0.05	8.28	0.4	750	1.57	0.12	3.11	0.17	45.8	22.9	87	5.16	63.8	5.58	17.75
BB27315		0.08	8.54	<0.2	990	1.94	0.09	3.02	0.23	65.4	22.5	60	11.90	85.8	5.35	18.70
BB27316		0.08	7.79	0.7	630	1.18	0.15	3.44	0.27	47.1	23.8	121	4.99	40.9	5.71	19.00
BB27317		0.02	7.53	2.0	760	1.60	0.13	2.45	0.22	53.5	21.0	100	5.63	48.9	4.68	16.85
BB27318		0.39	5.64	11.5	530	0.78	0.14	3.47	0.52	33.5	23.5	127	5.35	29.9	4.56	14.25
BB27319		0.21	7.92	5.2	500	0.88	0.08	4.52	0.39	26.3	35.3	142	5.04	98.2	6.26	17.40
BB27320		0.11	5.15	2.5	640	1.46	0.11	2.25	0.30	50.7	56.5	653	1.93	21.6	4.57	12.20
BB27321		0.19	4.08	4.0	590	0.79	0.22	1.03	0.20	52.0	72.1	495	2.38	16.2	4.67	9.80
BB27322		0.09	6.62	1.2	600	0.94	0.08	3.02	0.16	35.5	38.1	395	2.43	35.0	5.67	12.90
BB27323		0.18	3.72	2.2	490	0.56	0.12	1.80	0.28	32.1	74.5	983	1.96	29.8	5.81	8.47
BB27324		0.13	5.41	14.8	500	1.13	0.09	2.45	0.31	38.1	41.6	738	2.86	35.5	5.48	11.70
BB27325		0.10	3.27	5.2	300	0.50	0.11	2.90	0.25	19.35	122.5	1330	2.05	22.6	7.06	7.96

Comments: REE's may not be totally soluble in MS61 method.

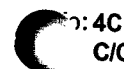


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Page #: 2 - B
Pages: 2 (A - D)
Date: 12-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03029061

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5	Rb ppm 0.1
BB27306		0.16	0.5	0.079	0.39	10.4	17.2	4.23	1580	0.18	2.02	0.3	75.4	400	3.4	17.0
	BB27307	0.15	0.7	0.061	0.40	9.9	12.7	4.02	1125	0.31	2.10	4.2	75.9	440	2.8	13.8
	BB27308	0.15	0.8	0.061	0.61	16.4	17.6	3.41	974	0.44	1.44	5.1	67.1	480	6.4	25.2
	BB27309	0.17	0.8	0.064	0.66	20.7	21.8	3.15	1080	0.59	1.34	4.9	64.4	1040	6.0	37.5
	BB27310	0.16	0.2	0.036	0.69	22.9	20.9	1.26	2650	1.67	0.82	6.2	52.1	2750	7.6	41.2
BB27311		0.17	0.7	0.069	0.90	17.1	39.0	3.40	1235	0.23	1.60	0.8	102.5	810	5.9	41.7
	BB27312	0.15	0.6	0.065	0.58	13.5	22.5	3.82	1265	0.23	1.73	3.1	88.7	570	4.5	26.4
	BB27313	0.14	0.6	0.059	0.55	14.0	22.2	3.43	1190	0.45	1.56	2.6	69.5	710	5.3	23.8
	BB27314	0.20	0.5	0.055	1.04	21.5	19.7	2.25	934	0.38	2.47	4.9	39.7	1140	13.0	54.9
	BB27315	0.19	0.5	0.061	0.85	27.3	31.1	1.80	1010	0.39	2.66	9.7	40.2	1620	14.8	53.9
BB27316		0.18	0.6	0.063	0.91	23.7	22.9	2.55	918	0.37	1.94	2.6	65.0	680	11.0	47.8
	BB27317	0.18	0.9	0.056	1.16	28.5	26.9	2.04	772	0.55	1.78	4.9	68.1	1090	12.9	62.6
	BB27318	0.17	0.5	0.049	0.77	17.1	16.4	2.38	971	0.94	1.28	6.3	62.6	1440	20.0	33.3
	BB27319	0.19	1.0	0.059	0.66	13.1	24.2	3.41	1195	0.37	2.20	1.0	79.2	640	7.8	23.0
	BB27320	0.22	0.9	0.029	0.65	27.7	16.2	7.14	955	0.50	1.63	9.1	880	660	15.0	29.3
BB27321		0.20	1.2	0.022	0.84	27.9	15.2	7.36	1470	0.75	1.03	6.4	844	520	11.8	40.0
	BB27322	0.18	0.7	0.042	0.77	18.4	14.4	5.71	1005	0.33	1.87	7.3	529	630	8.8	35.1
	BB27323	0.19	0.4	0.025	0.57	17.2	12.0	6.40	1370	0.51	0.84	5.8	809	1180	7.0	31.9
	BB27324	0.19	0.7	0.039	0.71	19.8	20.4	3.86	884	0.46	1.53	9.8	759	910	8.1	41.8
	BB27325	0.16	0.1	0.024	0.38	9.8	7.0	9.07	2180	0.51	0.40	3.3	877	1680	6.2	27.2

Comments: REE's may not be totally soluble in MS61 method.



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Page #: 2 - C

Date : 12-Aug-2003

Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS

VA03029061

Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 TI ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1
BB27306		<0.002	0.02	0.14	1	0.8	140.0	<0.05	<0.05	1.8	0.58	0.08	0.5	230	0.1	25.6
BB27307		<0.002	0.02	0.16	1	0.8	163.0	0.05	<0.05	1.8	0.62	0.08	0.5	251	0.1	20.8
BB27308		<0.002	0.02	0.08	1	1.1	137.5	0.09	<0.05	4.1	0.67	0.15	1.0	248	0.4	19.0
BB27309		<0.002	0.05	0.19	1	1.6	130.5	0.10	<0.05	4.5	0.65	0.16	1.2	249	0.4	21.9
BB27310		<0.002	0.17	0.43	2	1.3	110.0	0.18	<0.05	3.5	0.34	0.19	2.9	109	1.0	17.4
BB27311		<0.002	0.01	0.27	1	2.0	153.5	<0.05	<0.05	3.4	0.58	0.24	0.9	192	0.1	21.9
BB27312		<0.002	0.01	0.06	1	1.0	129.5	<0.05	<0.05	2.8	0.64	0.13	0.8	240	0.1	22.6
BB27313		<0.002	0.05	0.10	2	1.4	129.0	0.06	<0.05	3.0	0.60	0.15	1.0	230	0.2	20.1
BB27314		<0.002	0.01	0.09	1	1.2	380	0.06	<0.05	5.2	0.56	0.25	1.1	190	0.1	17.0
BB27315		<0.002	0.01	0.11	1	1.3	298	0.19	<0.05	7.9	0.52	0.28	2.1	166	0.3	20.4
BB27316		<0.002	0.02	0.05	1	1.5	231	<0.05	<0.05	5.7	0.63	0.20	1.3	210	0.1	18.0
BB27317		<0.002	0.03	0.19	1	1.6	243	0.08	<0.05	7.4	0.52	0.30	1.7	165	0.2	15.6
BB27318		<0.002	0.08	0.93	1	1.3	145.0	0.15	<0.05	4.8	0.48	0.20	1.4	184	1.1	15.0
BB27319		<0.002	0.02	0.37	1	1.0	199.5	<0.05	<0.05	3.1	0.63	0.14	1.1	231	0.2	21.3
BB27320		<0.002	0.01	0.32	1	1.4	205	0.27	<0.05	7.7	0.29	0.14	1.8	97	0.6	14.1
BB27321		0.004	0.05	0.38	1	1.2	138.5	0.11	<0.05	7.8	0.25	0.25	1.8	87	0.7	11.2
BB27322		<0.002	0.03	0.17	1	1.0	228	0.17	<0.05	5.1	0.55	0.14	1.0	158	0.4	16.4
BB27323		<0.002	0.09	0.29	1	1.0	112.0	0.10	<0.05	4.9	0.29	0.11	1.0	115	0.8	11.1
BB27324		<0.002	0.06	0.50	1	1.0	149.5	0.36	<0.05	6.3	0.47	0.17	1.1	154	1.2	13.2
BB27325		<0.002	0.08	0.28	<1	0.8	50.7	0.05	0.05	3.0	0.16	0.12	0.6	136	0.9	6.0

Comments: REE's may not be totally soluble in MS61 method.



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Date: 12-Aug-2003
Account: FOURC

Project: 4C West Block

CERTIFICATE OF ANALYSIS VA03029061

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61
		Zn ppm 2	Zr ppm 0.5
BB27306		102	10.4
BB27307		68	15.8
BB27308		86	20.5
BB27309		91	23.3
BB27310		74	6.7
BB27311		97	16.2
BB27312		86	13.4
BB27313		94	15.8
BB27314		102	14.6
BB27315		104	13.6
BB27316		111	15.8
BB27317		95	26.9
BB27318		64	12.0
BB27319		148	25.4
BB27320		82	24.3
BB27321		66	29.5
BB27322		84	17.4
BB27323		89	10.7
BB27324		120	14.4
BB27325		68	2.8

Comments: REE's may not be totally soluble in MS61 method.



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CERTIFICATE VA03029060

Project : *4C WEST*

P.O. No:

This report is for 12 - samples submitted to our lab in North Vancouver, BC, Canada on 4-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: **4C**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Date: 11-Aug-2003
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4C WEST

CERTIFICATE OF ANALYSIS

VA03029060

Sample Description	Method Analyte Units LOR	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
BB 27386		0.09	6.98	0.2	900	1.28	0.23	1.71	0.26	46.8	7.3	69	2.75	16.1	2.00	17.05
BB 27387		0.11	7.65	<0.2	750	1.50	0.26	3.34	0.41	39.5	31.1	289	4.43	89.2	5.63	17.15
BB 27388		0.20	7.99	<0.2	1060	3.68	0.53	1.60	0.42	69.4	23.7	197	7.70	48.3	4.63	19.90
BB 27389		0.14	7.76	<0.2	940	2.62	0.35	1.75	2.37	65.2	41.7	428	4.87	66.9	5.44	20.3
BB 27390		0.10	7.12	0.4	990	2.72	0.60	1.46	0.70	62.9	17.8	156	6.37	27.7	4.43	20.2
BB 27391		0.08	6.36	<0.2	660	1.66	0.27	1.68	0.26	47.1	46.4	528	4.04	24.0	4.87	15.80
BB 27392		0.13	6.59	0.4	500	1.11	0.14	2.64	0.18	31.2	39.8	342	4.51	51.7	5.55	15.00
BB 27393		0.04	7.41	<0.2	460	1.02	0.12	3.78	0.32	33.5	40.0	362	3.64	45.0	6.07	15.20
BB 27394		0.12	6.56	0.4	410	0.92	0.09	2.98	0.15	27.4	59.0	632	2.75	58.8	6.46	13.45
BB 27395		0.06	5.97	<0.2	590	1.04	0.12	2.43	0.22	36.7	47.0	534	3.87	44.2	5.46	12.55
BB 27396		0.07	6.51	0.6	650	0.95	0.17	1.69	0.15	31.1	26.4	375	1.98	23.3	3.42	15.55
BB 27397		0.06	4.93	0.3	430	1.02	0.14	1.51	0.22	31.3	48.7	877	1.66	26.1	5.22	10.80

Comments: REE's may not be totally soluble in MS61 method.



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Date: 11-Aug-2003

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4 C WEST

CERTIFICATE OF ANALYSIS

VA03029060

Sample Description	Method Analyte Units LOR	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
BB 27386		0.16	0.3	0.025	1.96	26.7	20.5	0.91	434	1.48	2.20	5.6	25.4	630	14.4	61.4
BB 27387		0.18	0.9	0.061	0.95	21.5	31.3	4.05	959	0.62	1.70	1.9	316	490	43.8	49.7
BB 27388		0.21	1.3	0.064	1.42	39.0	54.4	3.44	805	1.56	1.28	11.0	299	590	110.5	71.9
BB 27389		0.21	1.1	0.074	1.28	36.0	60.1	5.34	985	1.68	1.12	10.5	586	350	130.5	78.2
BB 27390		0.20	1.0	0.063	1.56	34.6	56.7	2.73	786	3.32	1.24	10.5	142.0	750	44.0	85.3
BB 27391		0.17	0.5	0.044	1.12	25.6	36.6	4.36	786	0.78	1.30	6.7	610	800	14.2	63.4
BB 27392		0.17	0.9	0.049	0.80	17.9	23.5	4.12	900	0.54	1.58	10.2	468	1080	10.7	44.0
BB 27393		0.16	0.6	0.072	0.59	17.2	17.2	4.25	1130	0.33	2.03	10.2	305	650	8.5	30.2
BB 27394		0.16	0.5	0.050	0.51	15.4	19.0	7.36	947	0.31	1.43	7.0	813	310	7.6	23.4
BB 27395		0.15	0.8	0.040	0.62	19.8	20.5	4.02	896	0.37	1.69	5.2	635	550	10.2	32.1
BB 27396		0.15	0.5	0.029	1.47	17.4	18.8	3.84	669	1.10	1.86	5.1	289	550	9.8	41.8
BB 27397		0.17	0.7	0.033	0.70	17.2	13.7	8.35	798	0.48	1.00	4.5	883	620	8.6	29.7

Comments: REE's may not be totally soluble in MS61 method.



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Page #: 2 - C
Pages : 2 (A - D)
Date : 11-Aug-2003
Account: FOURC

4C WEST

CERTIFICATE OF ANALYSIS VA03029060

Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1
BB 27386		<0.002	0.04	0.36	1	1.6	392	<0.05	<0.05	7.1	0.29	0.34	2.6	67	0.8	8.1
BB 27387		<0.002	0.03	0.05	2	2.0	158.0	<0.05	<0.05	6.9	0.49	0.29	1.7	182	0.1	16.3
BB 27388		<0.002	0.02	0.08	2	3.6	129.0	0.57	<0.05	14.2	0.39	0.57	3.7	136	1.2	14.4
BB 27389		<0.002	0.01	0.06	2	3.2	121.5	0.24	<0.05	11.8	0.47	0.50	2.6	160	1.1	13.8
BB 27390		<0.002	0.05	0.22	2	3.7	137.0	0.28	0.05	11.8	0.42	0.52	3.1	148	1.5	12.8
BB 27391		<0.002	0.05	0.18	1	2.0	215	0.11	<0.05	7.5	0.33	0.31	1.9	108	1.3	10.4
BB 27392		<0.002	0.06	0.18	1	1.3	194.5	0.44	<0.05	4.7	0.44	0.20	1.1	162	0.7	17.0
BB 27393		<0.002	0.02	0.10	1	1.2	211	0.16	<0.05	4.4	0.63	0.14	0.9	211	0.3	16.3
BB 27394		<0.002	0.01	0.12	1	1.0	181.0	0.38	<0.05	4.0	0.36	0.13	0.8	211	0.5	12.0
BB 27395		<0.002	0.03	0.09	1	1.1	145.0	0.10	<0.05	5.9	0.40	0.16	1.1	150	0.3	13.2
BB 27396		<0.002	0.03	0.34	1	1.0	354	0.05	<0.05	4.5	0.23	0.23	1.8	78	0.7	6.7
BB 27397		<0.002	0.05	0.07	1	1.0	146.0	0.05	<0.05	5.3	0.23	0.18	1.3	87	0.4	8.5

Comments: REE's may not be totally soluble in MS61 method.



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Page #: 2 - D
Total # of Pages: 2 (A - D)
Date: 11-Aug-2003
Account: FOURC

HC WEST

CERTIFICATE OF ANALYSIS VA03029060

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61
		Zn	Zr
		ppm 2	ppm 0.5
BB 27386		54	18.2
BB 27387		226	24.5
BB 27388		306	39.8
BB 27389		541	33.9
BB 27390		256	34.1
BB 27391		89	19.4
BB 27392		102	29.5
BB 27393		114	16.2
BB 27394		82	13.0
BB 27395		98	22.3
BB 27396		62	21.3
BB 27397		77	24.3

Comments: REE's may not be totally soluble in MS61 method.



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Page # : 1
Date : 10-Aug-2003
Account: FOURC

CERTIFICATE VA03028819

Project : 4C WEST BLOCK

P.O. No:

This report is for 24 PULP samples submitted to our lab in North Vancouver, BC, Canada on 4-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: **4C**
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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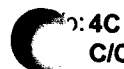
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Page #: 2 - A

Cases: 2 (A - D)

Date: 10-Aug-2003

Account: FOURC

Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS

VA03028819

Sample Description	Method Analyte Units LOR	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
BB24225		0.32	7.78	0.9	530	1.22	0.18	4.47	0.40	33.9	35.9	186	4.52	81.4	6.08	16.30
BB24226		0.23	7.63	2.0	550	1.09	0.16	4.64	0.35	33.0	40.2	197	5.61	87.7	6.50	16.85
BB24227		0.28	7.91	1.8	1080	3.65	0.50	1.58	0.84	91.1	15.3	50	11.25	41.2	3.83	19.60
BB27351		0.31	7.60	1.9	980	2.94	0.48	1.98	0.88	81.4	19.8	59	9.99	47.3	4.29	18.70
BB27352		0.24	7.90	3.2	1170	3.52	0.49	1.47	1.11	90.6	16.4	49	11.05	40.4	4.27	19.15
BB27353		0.35	2.19	1.3	180	0.35	0.07	1.05	0.10	17.05	115.0	1230	1.72	25.0	5.83	5.14
BB27354		0.26	6.52	6.1	1110	1.60	0.16	3.41	1.52	38.0	46.3	318	7.65	103.0	6.55	14.60
BB27355		0.20	7.43	0.9	1040	2.02	0.25	2.56	0.51	98.2	28.6	122	6.50	78.9	4.96	16.70
BB27371		0.21	7.16	1.3	830	1.84	0.38	1.96	0.48	50.2	34.1	221	5.60	53.0	5.05	16.55
BB27372		0.24	6.57	13.6	850	1.64	0.18	2.55	0.58	73.6	17.2	65	2.50	24.9	4.08	16.25
BB27373		0.06	5.20	4.0	510	1.16	0.16	1.90	0.12	70.8	7.1	19	1.12	12.0	2.13	11.75
BB27381		0.22	6.93	3.4	1140	1.29	0.11	3.98	1.19	31.6	47.4	424	5.13	91.3	6.75	14.85
BB27382		0.09	5.93	4.3	730	1.81	0.21	1.79	0.18	58.2	13.9	92	2.63	12.8	2.56	13.80
BB27383		0.62	8.28	0.8	950	2.23	0.47	1.94	0.23	67.4	12.2	45	12.25	33.0	3.92	22.3
BB27384		0.26	6.66	11.0	820	1.37	0.24	2.39	0.44	62.6	15.0	42	2.52	25.9	3.54	16.25
BB27401		0.20	6.68	<0.2	480	0.66	0.07	3.94	0.38	21.8	41.5	249	2.20	154.0	6.38	13.95
BB27407		0.22	8.68	1.6	1070	3.36	0.48	1.51	0.27	165.5	13.1	38	12.30	28.2	4.09	21.7
BB27410		0.18	7.85	1.3	930	3.83	0.56	1.80	0.34	93.9	13.5	29	8.00	23.3	3.29	19.05
BB27411		0.29	7.65	2.2	960	2.97	0.52	1.93	0.88	93.9	19.2	54	11.35	42.3	4.20	19.20
BB27438		0.23	8.31	1.6	760	2.84	0.58	2.12	0.32	129.5	20.8	44	15.85	43.0	5.33	21.7
BB27457		0.18	7.07	1.7	670	1.43	0.20	3.97	0.85	37.6	37.7	204	4.99	61.5	6.42	13.80
BB27467		0.16	6.87	6.6	860	2.21	0.33	1.92	0.29	75.9	18.6	117	4.24	24.4	3.52	16.05
BB27468		0.12	7.04	19.1	760	1.73	0.25	1.83	0.28	97.5	12.8	26	2.70	19.1	3.47	17.35
BB27469		0.10	6.67	1.5	900	2.38	0.30	2.08	0.29	79.2	17.4	158	3.80	19.6	3.22	15.10

Comments: REE's may not be totally soluble in MS61 method.



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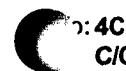
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Page #: 2 - B

Pages : 2 (A - D)

Date : 10-Aug-2003

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Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS

VA03028819

Sample Description	Method Analyte Units LOR	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
BB24225		0.31	0.9	0.068	0.82	25.7	33.8	3.90	1180	0.61	1.94	1.7	209	600	10.3	41.9
BB24226		0.29	0.8	0.072	0.74	20.6	31.8	4.23	1260	0.56	1.87	1.8	173.0	570	9.1	38.4
BB24227		0.36	1.1	0.058	2.42	54.7	58.5	1.23	597	2.29	2.01	11.7	65.8	800	36.0	140.5
BB27351		0.38	1.1	0.057	2.11	51.1	50.9	1.58	933	2.16	1.80	11.4	77.3	750	29.9	124.0
BB27352		0.38	1.0	0.059	2.43	51.8	62.9	1.21	967	1.92	1.91	11.6	63.6	820	36.3	134.5
BB27353		0.24	0.5	0.028	0.31	9.3	8.4	>15.00	1350	0.31	0.54	3.2	1790	260	4.1	16.4
BB27354		0.27	0.8	0.060	0.99	21.1	25.7	5.15	1510	1.16	1.28	5.6	302	670	20.5	42.2
BB27355		0.38	1.0	0.061	1.70	50.8	34.2	2.82	1555	1.42	1.66	5.0	105.0	720	22.9	79.1
BB27371		0.27	1.2	0.052	1.38	26.8	36.7	3.52	979	1.70	1.60	10.2	397	650	28.3	87.3
BB27372		0.38	0.6	0.054	1.47	48.0	26.5	1.48	1200	1.02	1.43	9.3	69.4	910	18.8	70.7
BB27373		0.30	0.6	0.040	1.36	35.6	9.5	0.70	500	0.57	1.60	8.2	14.0	670	14.4	48.8
BB27381		0.28	0.8	0.064	0.91	18.2	22.1	5.89	1440	1.05	1.57	3.4	366	690	17.2	36.3
BB27382		0.28	0.7	0.036	1.70	29.2	18.0	1.60	494	0.63	1.78	9.8	110.5	590	18.8	76.3
BB27383		0.35	1.0	0.055	1.44	41.7	51.4	1.52	506	2.99	1.44	13.6	33.5	1520	20.4	91.6
BB27384		0.32	1.3	0.047	1.57	37.6	27.2	1.23	778	1.14	1.41	10.2	32.0	700	18.9	87.6
BB27401		0.26	0.8	0.053	0.53	12.4	20.8	4.41	1050	0.35	1.61	4.5	254	760	5.6	23.7
BB27407		0.49	0.6	0.066	2.81	86.8	48.4	1.32	697	1.34	1.58	6.1	34.0	690	29.0	155.5
BB27410		0.32	0.9	0.057	2.52	51.2	54.3	1.08	678	0.87	1.96	12.3	26.9	550	31.4	135.5
BB27411		0.39	1.3	0.061	2.16	60.7	51.6	1.53	1030	2.06	1.78	12.5	69.9	860	30.9	129.5
BB27438		0.46	1.4	0.058	2.31	87.7	48.5	1.56	870	2.28	1.73	17.3	29.2	880	26.5	133.5
BB27457		0.28	0.9	0.056	0.84	21.1	27.4	3.61	2570	1.46	1.77	4.3	200	670	10.6	38.2
BB27467		0.32	1.1	0.050	1.88	40.4	26.2	1.92	668	0.88	1.81	11.9	138.5	840	22.7	91.7
BB27468		0.35	1.0	0.053	2.12	50.5	22.8	1.02	801	0.96	1.62	10.2	23.3	770	22.5	102.5
BB27469		0.32	1.1	0.042	1.86	40.1	21.8	1.88	642	0.86	1.91	10.4	139.5	820	22.6	85.5

Comments: REE's may not be totally soluble in MS61 method.



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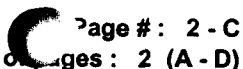


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Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03028819

Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1
BB24225		0.002	0.03	0.11	2	1.5	185.5	<0.05	<0.05	7.1	0.61	0.29	4.0	196	0.2	21.1
BB24226		0.004	0.03	0.11	2	1.6	165.0	<0.05	<0.05	6.3	0.68	0.25	2.4	215	0.1	22.0
BB24227		0.002	0.04	0.28	2	5.1	204	0.36	<0.05	26.2	0.34	0.91	15.7	93	1.8	20.5
BB27351		0.003	0.06	0.23	2	4.2	217	0.36	<0.05	19.4	0.35	0.75	13.2	101	2.8	21.1
BB27352		0.002	0.08	0.26	2	5.5	203	0.72	<0.05	26.3	0.36	0.87	13.7	100	1.5	21.0
BB27353		0.002	0.01	0.18	<1	0.6	62.0	0.13	<0.05	2.9	0.14	0.13	0.6	66	0.6	5.9
BB27354		0.002	0.05	0.52	2	1.8	121.5	0.13	<0.05	5.4	0.63	0.47	1.5	191	0.6	21.4
BB27355		<0.002	0.04	0.09	2	2.5	181.0	0.11	<0.05	20.1	0.45	0.52	4.5	139	1.2	20.0
BB27371		0.002	0.03	0.19	1	2.8	172.0	0.53	<0.05	13.7	0.35	0.56	4.3	123	1.2	13.4
BB27372		0.003	0.04	0.32	2	2.1	238	0.07	<0.05	13.6	0.43	0.45	4.2	102	0.9	22.9
BB27373		0.002	0.02	0.25	1	1.6	234	<0.05	<0.05	11.9	0.29	0.29	3.9	59	0.7	16.9
BB27381		0.002	0.03	0.34	1	1.6	144.5	0.07	<0.05	4.4	0.62	0.37	1.5	205	0.4	21.6
BB27382		<0.002	0.01	0.20	1	2.1	222	0.15	<0.05	11.0	0.26	0.46	3.0	61	0.9	15.6
BB27383		0.002	0.12	0.20	3	3.3	218	0.84	<0.05	13.0	0.61	0.67	15.5	140	2.4	18.2
BB27384		0.003	0.06	0.33	2	2.0	245	0.17	<0.05	13.2	0.36	0.47	5.6	96	1.5	18.6
BB27401		0.002	0.04	0.11	1	0.9	165.5	0.13	<0.05	3.1	0.73	0.14	1.0	206	0.2	17.9
BB27407		0.002	0.02	0.11	2	3.3	198.0	0.22	<0.05	35.2	0.43	0.83	12.7	87	0.5	23.3
BB27410		0.002	0.02	0.17	1	3.8	237	0.63	0.05	26.4	0.29	0.76	6.2	70	1.5	18.2
BB27411		0.002	0.07	0.31	2	4.6	222	0.73	<0.05	23.9	0.35	0.78	16.7	99	1.7	21.9
BB27438		0.002	0.05	0.33	2	4.3	293	0.94	<0.05	31.9	0.39	0.78	26.2	99	2.2	25.4
BB27457		0.004	0.05	0.24	2	1.6	165.5	0.11	<0.05	7.2	0.58	0.30	3.4	188	0.2	17.8
BB27467		0.003	0.02	0.28	1	2.8	236	0.49	<0.05	15.3	0.34	0.55	4.7	84	1.2	19.0
BB27468		0.002	0.02	0.28	1	2.4	243	0.26	<0.05	18.6	0.36	0.55	5.3	75	0.9	21.1
BB27469		0.002	0.01	0.18	1	2.8	234	0.46	<0.05	16.1	0.33	0.50	4.0	80	0.9	19.6

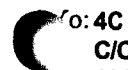
Comments: REE's may not be totally soluble in MS61 method.



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Project: 4C WEST BLOCK

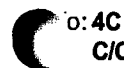
CERTIFICATE OF ANALYSIS VA03028819

Sample Description	Method Analyte Units LOR	ME-MS61 Zn	ME-MS61 Zr
		ppm 2	ppm 0.5
BB24225		111	18.0
BB24226		118	15.3
BB24227		123	23.9
BB27351		114	23.6
BB27352		131	21.0
BB27353		66	11.5
BB27354		275	21.3
BB27355		120	20.7
BB27371		128	29.5
BB27372		87	15.2
BB27373		41	12.0
BB27381		234	16.0
BB27382		56	15.3
BB27383		74	25.5
BB27384		90	28.6
BB27401		128	16.4
BB27407		107	13.9
BB27410		91	19.2
BB27411		118	26.9
BB27438		107	31.7
BB27457		116	19.0
BB27467		78	25.5
BB27468		90	23.6
BB27469		64	21.9

Comments: REE's may not be totally soluble in MS61 method.



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Page #: 1
Date: 11-Aug-2003
Account: FOURC

CERTIFICATE VA03028818

Project : 4C WEST BLOCK

P.O. No:

This report is for 39 PULP samples submitted to our lab in North Vancouver, BC, Canada on 4-Aug-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	47 element four acid ICP-MS

To: 4C
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page #: 2 - A
Pages : 2 (A - D)
Date : 11-Aug-2003
Account: FOURC

Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03028818

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05
M24222		0.66	6.97	3.3	790	4.33	0.32	2.56	1.02	80.2	17.2	65	6.06	23.6	4.26	17.80
M24223		0.32	6.22	2.7	2070	2.96	0.26	1.95	0.61	73.4	22.6	261	6.96	26.0	4.07	17.90
M24224		0.26	5.15	1.9	2800	2.59	0.28	0.84	0.50	65.9	9.5	95	5.20	12.4	2.35	14.95
M24228		0.21	5.57	5.1	4100	3.08	0.24	1.59	1.12	84.5	18.3	126	9.38	41.7	4.28	16.15
M24229		0.15	6.97	1.8	1360	2.30	0.25	1.81	0.32	92.9	15.4	81	5.68	30.4	3.36	16.25
M24230		0.12	6.84	1.3	1460	2.32	0.23	1.98	0.71	76.6	9.4	29	5.03	11.4	2.50	15.15
M24231		0.26	7.00	2.4	1060	2.57	0.31	2.69	0.78	89.5	24.8	115	10.60	38.3	4.52	17.25
M24232		0.30	6.49	2.1	1120	2.77	0.56	1.85	0.42	89.2	17.8	106	5.04	26.8	3.61	17.25
M24233		0.33	6.80	4.9	1220	2.17	0.47	1.65	1.80	76.9	18.8	98	5.08	39.2	3.86	18.70
M24234		0.17	6.83	2.6	1540	2.38	0.29	1.78	0.69	81.8	19.7	79	5.97	37.3	4.00	16.40
M24235		0.24	8.54	3.4	1160	2.34	0.29	3.04	0.61	60.9	41.1	211	14.35	169.0	6.18	21.4
M24236		0.26	6.87	6.3	1110	4.33	0.53	1.82	1.17	118.0	14.6	40	8.63	27.8	4.38	23.2
M24237		0.12	6.57	3.9	1320	3.17	0.29	1.64	0.77	85.5	10.5	38	6.56	14.6	3.56	18.50
BB27440		0.19	7.69	2.0	850	1.64	0.25	2.61	0.87	61.2	34.1	150	4.60	104.5	4.95	16.70
BB27441		0.29	7.59	5.1	1080	4.20	0.62	1.52	0.75	121.5	14.9	42	10.55	26.7	5.12	25.4
BB27442		0.24	8.08	0.8	820	2.66	0.28	1.25	0.45	69.0	15.6	60	5.13	37.3	4.14	19.70
BB27443		0.83	8.77	3.1	830	2.74	0.33	2.14	0.51	92.0	23.4	45	12.65	47.0	5.25	23.6
BB27444		0.29	8.10	4.8	1760	2.98	0.40	1.77	1.46	88.4	15.4	46	8.28	37.1	4.07	19.15
BB27445		0.73	8.61	2.3	1040	3.44	0.58	1.30	2.18	99.2	15.7	33	15.15	52.0	4.44	27.1
BB27446		1.61	7.87	5.3	650	2.39	0.20	1.10	0.47	153.5	13.9	47	8.99	35.7	3.79	22.7
BB27447		0.17	7.65	6.0	790	2.09	0.36	1.29	0.39	97.4	15.7	43	7.37	29.8	3.88	21.1
BB27448		0.84	8.66	4.5	940	3.19	0.43	1.36	0.92	95.4	16.3	47	12.65	48.4	4.32	24.0
BB27449		0.46	7.45	7.8	1030	4.62	0.60	1.76	2.38	122.5	18.7	44	13.30	40.2	5.22	23.5
BB27450		0.05	5.52	1.4	920	1.58	0.17	2.33	0.18	68.6	13.5	228	1.66	7.2	2.91	12.95
BB27451		0.36	5.20	1.7	840	2.04	0.27	2.09	0.39	64.6	29.0	760	2.96	20.4	4.09	13.00
BB27452		0.24	6.88	4.0	2860	2.58	0.24	3.02	0.73	68.1	27.1	101	9.49	48.1	5.23	17.15
BB27453		0.37	8.14	2.8	1210	3.34	0.59	1.17	0.98	71.0	14.6	57	14.00	44.7	3.86	19.45
BB27454		0.25	8.21	2.0	820	2.56	0.35	1.08	0.50	91.3	18.0	81	9.74	47.2	4.79	19.20
BB27455		0.32	8.63	3.4	940	3.72	0.77	1.85	0.49	110.5	17.8	42	14.40	62.3	4.61	22.3
BB27456		0.21	7.86	0.8	1120	2.47	0.41	2.07	0.99	86.3	16.4	103	7.45	42.2	4.12	17.85
BB27458		0.25	5.91	0.9	1160	2.46	0.37	1.88	0.56	80.2	13.5	79	5.13	26.9	2.97	15.45
BB27459		0.09	9.21	<0.2	680	1.48	0.08	5.36	0.33	32.8	53.7	278	11.30	148.0	7.28	16.25
BB27460		0.13	6.24	2.7	1560	2.26	0.29	1.78	2.23	59.9	13.9	85	5.08	19.7	3.31	16.55
BB27461		0.43	7.17	4.7	1350	3.34	0.37	2.88	4.75	65.6	25.6	106	7.67	62.8	4.84	18.20
BB27462		0.44	7.14	4.1	1500	2.79	0.60	1.34	4.18	82.8	17.7	91	9.13	35.4	3.65	19.40
BB27463		0.35	7.00	1.1	1200	4.36	1.07	1.46	2.80	89.9	13.8	37	11.90	29.9	3.36	21.3
BB27464		0.12	6.57	<0.2	210	0.37	0.07	5.05	0.40	13.95	47.2	333	2.25	119.5	6.54	12.85
BB27465		0.21	7.54	<0.2	560	1.17	0.17	3.66	0.77	33.4	56.7	155	4.39	233	6.26	15.25
BB27466		0.11	6.76	<0.2	820	1.67	0.16	2.51	0.32	92.5	23.1	160	2.96	41.1	3.99	13.50

Comments: REE's may not be totally soluble in MS61 method.



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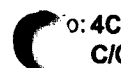
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Page #: 2 - B

Date : 11-Aug-2003

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Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS

VA03028818

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5	Rb ppm 0.1
M24222		0.36	0.6	0.058	2.72	75.8	70.3	1.44	902	2.39	0.98	14.8	223	1550	18.4	100.0
M24223		0.29	2.3	0.069	2.46	54.3	42.0	2.40	926	1.84	0.73	15.8	226	710	21.1	91.6
M24224		0.21	0.2	0.054	2.95	37.2	26.2	1.04	843	1.26	0.41	9.6	99.8	470	23.3	92.5
M24228		0.25	0.3	0.057	1.90	49.1	36.4	1.48	1730	3.04	0.67	10.7	104.0	680	27.6	75.1
M24229		0.25	0.8	0.050	2.14	51.6	33.8	1.45	868	1.50	1.38	13.6	58.8	740	28.1	92.8
M24230		0.22	0.7	0.040	2.23	44.1	25.1	0.86	709	1.23	1.70	9.0	29.5	610	26.0	99.0
M24231		0.29	1.1	0.056	1.96	52.9	53.9	1.94	962	2.18	1.22	7.7	101.5	830	27.7	81.3
M24232		0.27	1.1	0.061	2.45	52.8	47.1	1.47	739	1.76	1.20	14.8	106.0	910	25.6	92.9
M24233		0.28	2.0	0.073	2.94	49.9	33.9	1.82	790	2.66	1.00	11.4	161.5	630	22.5	109.0
M24234		0.24	0.9	0.052	2.16	47.2	35.0	1.72	1575	1.91	1.25	12.7	76.4	800	27.0	88.8
M24235		0.27	1.9	0.075	1.48	34.5	33.0	3.04	1285	1.94	1.44	12.2	190.5	930	18.3	66.3
M24236		0.47	2.8	0.102	4.11	85.6	52.9	1.14	1095	2.11	0.63	12.8	24.6	1210	27.8	140.5
M24237		0.31	0.7	0.072	4.34	52.7	35.7	0.89	934	4.46	0.66	18.1	25.1	1100	37.1	114.5
BB27440		0.22	0.8	0.054	1.64	32.1	32.6	3.17	1035	1.10	1.76	10.7	120.0	560	29.5	77.9
BB27441		0.40	2.7	0.109	3.83	72.2	57.0	1.26	1160	2.96	0.69	11.8	22.5	1320	26.8	152.5
BB27442		0.22	1.0	0.064	1.64	37.7	40.7	1.46	561	2.74	1.05	8.7	55.0	570	27.7	98.5
BB27443		0.29	0.7	0.068	2.22	62.0	66.3	1.68	998	1.55	1.22	15.8	33.2	1020	48.3	151.5
BB27444		0.24	1.2	0.052	1.90	52.0	47.2	1.66	775	3.31	1.31	12.4	43.5	880	34.8	97.1
BB27445		0.30	0.8	0.090	2.85	60.9	68.3	1.27	935	1.74	1.57	19.2	22.2	940	86.1	209
BB27446		0.38	0.7	0.061	2.58	90.6	39.9	1.00	512	1.02	1.02	18.2	59.3	1210	71.1	159.5
BB27447		0.27	1.7	0.055	1.88	62.8	48.7	1.00	817	3.05	1.25	15.9	35.7	1200	25.1	120.0
BB27448		0.38	0.9	0.072	2.36	89.9	61.7	1.04	806	2.17	0.96	15.8	48.9	950	33.1	168.5
BB27449		0.45	2.2	0.110	4.14	86.2	55.6	1.10	1745	3.14	0.50	22.6	29.4	1400	73.7	134.0
BB27450		0.22	1.2	0.044	1.58	38.0	13.5	1.56	703	1.50	1.36	11.0	93.3	640	15.0	56.8
BB27451		0.25	1.2	0.051	1.94	47.9	23.1	2.88	795	1.74	0.97	11.6	407	830	14.4	67.8
BB27452		0.28	1.0	0.063	1.52	40.8	37.4	2.00	1315	1.57	1.24	3.4	76.2	770	22.5	61.6
BB27453		0.24	0.9	0.063	1.96	45.0	78.9	1.08	649	2.71	1.14	12.6	48.2	860	42.3	124.0
BB27454		0.23	1.0	0.075	1.46	52.1	57.7	1.14	438	2.56	1.10	10.8	54.2	720	27.7	114.5
BB27455		0.29	1.4	0.072	2.47	83.6	75.8	1.35	1050	2.44	1.70	16.4	23.8	1010	34.9	166.0
BB27456		0.26	0.8	0.060	1.72	49.3	50.1	1.60	714	0.86	1.74	2.7	94.9	800	30.5	92.5
BB27458		0.29	0.3	0.056	2.52	55.9	36.4	1.48	707	1.44	1.05	10.8	105.0	660	20.8	93.1
BB27459		0.18	0.5	0.062	0.87	19.6	29.4	3.79	1570	0.15	1.74	0.3	209	740	5.8	35.4
BB27460		0.23	0.2	0.054	2.72	34.7	34.2	1.30	1120	1.63	0.92	12.2	60.3	1010	25.6	91.0
BB27461		0.27	0.5	0.071	2.17	45.4	49.8	1.84	1130	2.98	0.88	14.6	77.8	1120	37.4	76.2
BB27462		0.26	0.3	0.070	2.38	46.0	60.7	1.62	677	2.22	1.09	12.0	88.6	850	35.8	108.5
BB27463		0.30	2.0	0.085	3.01	52.2	64.5	0.91	1190	5.82	0.61	28.1	48.7	1090	35.4	110.5
BB27464		0.15	0.5	0.054	0.36	6.8	22.1	6.37	1335	0.36	1.44	4.2	177.5	320	3.5	11.4
BB27465		0.16	0.6	0.060	0.89	17.4	35.0	3.69	1080	1.22	1.78	5.6	135.0	620	15.8	41.6
BB27466		0.26	0.8	0.041	1.26	49.3	24.8	2.82	842	0.61	1.61	3.1	107.0	670	20.7	58.7

Comments: REE's may not be totally soluble in MS61 method.



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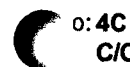
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Page #: 2 - C

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Date : 11-Aug-2003

Account: FOURC

Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03028818

Sample Description	Method Analyte Units LOR	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.01	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1
M24222		<0.002	0.08	0.24	4	2.9	231	0.60	<0.05	12.3	0.54	0.65	24.2	105	1.8	58.0
M24223		<0.002	0.05	0.25	3	4.1	139.0	0.42	<0.05	13.0	0.38	0.52	5.5	96	1.5	31.1
M24224		0.002	0.02	0.16	2	4.3	114.5	0.05	<0.05	11.6	0.25	0.56	2.5	51	1.7	20.0
M24228		<0.002	0.04	0.29	3	3.7	128.0	0.10	<0.05	13.0	0.38	0.67	4.2	120	2.0	26.3
M24229		<0.002	0.02	0.12	2	3.1	175.0	0.65	<0.05	19.6	0.34	0.60	5.3	97	1.3	21.3
M24230		<0.002	0.02	0.08	2	2.6	220	0.34	<0.05	15.2	0.24	0.55	4.5	65	0.9	19.7
M24231		<0.002	0.03	0.08	2	3.6	189.0	0.14	<0.05	15.0	0.56	0.56	8.8	138	2.1	30.0
M24232		0.002	0.02	0.20	2	3.5	170.0	0.35	<0.05	14.0	0.39	0.60	14.8	91	1.9	30.6
M24233		<0.002	0.03	1.61	2	4.1	136.5	0.30	<0.05	13.6	0.38	0.71	6.1	90	1.8	26.3
M24234		<0.002	0.04	0.86	2	3.2	160.5	0.53	<0.05	15.7	0.36	0.60	5.8	105	1.9	20.8
M24235		<0.002	0.03	2.16	2	2.6	182.0	0.27	<0.05	8.9	0.65	0.48	2.5	205	1.6	25.6
M24236		<0.002	0.05	0.19	4	6.6	144.5	0.22	<0.05	16.0	0.65	0.77	9.9	100	1.5	58.4
M24237		<0.002	0.02	0.18	3	5.3	116.5	0.46	<0.05	11.6	0.56	0.90	9.8	88	1.6	42.7
BB27440		<0.002	0.04	0.17	1	2.4	167.0	0.63	<0.05	10.6	0.42	0.44	2.6	157	1.1	17.6
BB27441		<0.002	0.04	0.18	2	6.0	127.5	0.20	<0.05	16.3	0.74	0.96	6.3	127	1.2	43.3
BB27442		<0.002	0.03	<0.05	3	2.7	194.0	0.16	<0.05	12.7	0.43	0.64	2.6	112	0.6	11.9
BB27443		<0.002	0.04	0.17	2	4.1	260	0.58	0.05	19.0	0.48	0.82	23.0	118	1.3	21.5
BB27444		<0.002	0.03	0.14	3	3.3	223	0.56	<0.05	18.8	0.36	0.71	7.4	110	1.5	21.7
BB27445		<0.002	0.04	1.11	2	8.1	162.0	1.28	<0.05	25.7	0.37	1.08	40.6	82	1.9	25.2
BB27446		<0.002	0.04	1.72	2	2.0	176.0	0.94	<0.05	32.0	0.38	0.81	9.4	76	0.8	28.7
BB27447		<0.002	0.07	1.81	2	2.7	211	0.86	<0.05	20.6	0.40	0.73	23.2	103	1.5	18.8
BB27448		<0.002	0.06	1.52	3	3.1	181.0	0.93	<0.05	24.7	0.36	0.86	14.7	95	1.0	33.0
BB27449		<0.002	0.10	0.98	4	6.1	96.9	0.47	<0.05	15.2	0.66	1.53	8.7	118	2.6	56.8
BB27450		<0.002	0.01	0.67	2	2.3	210	0.41	<0.05	10.2	0.40	0.31	3.2	86	0.8	21.9
BB27451		<0.002	0.06	0.21	3	2.6	166.0	0.44	<0.05	12.0	0.33	0.38	27.6	83	1.3	27.6
BB27452		<0.002	0.02	0.16	2	2.7	168.5	0.09	<0.05	9.3	0.62	0.48	2.5	177	0.5	26.0
BB27453		<0.002	0.06	0.12	3	5.2	165.0	1.01	0.06	15.4	0.41	0.76	12.0	118	2.0	19.4
BB27454		<0.002	0.02	0.12	2	3.0	166.5	0.36	0.05	16.2	0.41	0.84	3.4	116	0.9	13.8
BB27455		<0.002	0.04	0.31	2	6.7	251	1.17	<0.05	25.5	0.38	0.91	39.7	99	1.9	25.2
BB27456		<0.002	0.03	0.08	2	3.3	177.5	0.06	<0.05	18.0	0.49	0.53	4.5	127	0.2	20.4
BB27458		<0.002	0.03	0.20	3	3.6	152.5	0.11	<0.05	12.8	0.35	0.56	8.3	76	1.2	31.1
BB27459		<0.002	0.02	0.05	1	0.7	212	<0.05	<0.05	2.8	0.45	0.20	0.9	160	0.1	21.6
BB27460		<0.002	0.03	0.21	3	3.5	156.0	0.10	<0.05	9.1	0.46	0.64	5.9	111	1.6	24.3
BB27461		<0.002	0.08	0.31	4	3.5	138.5	0.23	<0.05	8.9	0.54	0.66	6.3	168	2.3	30.8
BB27462		0.005	0.06	0.25	4	4.0	149.5	0.11	<0.05	13.5	0.39	0.86	7.5	118	1.9	23.8
BB27463		0.006	0.07	0.14	5	7.1	122.5	0.78	<0.05	13.0	0.36	0.74	8.8	109	4.0	28.2
BB27464		<0.002	0.02	0.08	1	0.8	87.8	0.24	<0.05	1.3	0.36	0.09	0.5	251	0.4	16.6
BB27465		<0.002	0.03	0.11	1	1.9	148.5	0.12	<0.05	4.9	0.52	0.25	1.6	198	0.6	18.6
BB27466		<0.002	0.01	<0.05	1	1.6	178.5	0.09	<0.05	15.7	0.38	0.38	3.0	126	0.2	17.0

Comments: REE's may not be totally soluble in MS61 method.

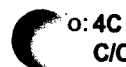


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Page #: 2 - D
Total # of Pages : 2 (A - D)
Date : 11-Aug-2003
Account: FOURC

Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03028818

Sample Description	Method Analyte Units LOR	ME-MS61 Zn	ME-MS61 Zr
		ppm 2	ppm 0.5
M24222		134	26.5
M24223		116	84.3
M24224		115	8.1
M24228		247	13.4
M24229		105	28.0
M24230		126	22.6
M24231		145	38.2
M24232		109	39.0
M24233		373	87.9
M24234		127	30.6
M24235		170	75.4
M24236		158	103.0
M24237		142	31.1
BB27440		210	24.9
BB27441		173	109.5
BB27442		108	37.2
BB27443		181	22.6
BB27444		172	42.7
BB27445		269	28.5
BB27446		231	22.4
BB27447		132	61.1
BB27448		256	30.2
BB27449		301	89.8
BB27450		54	38.4
BB27451		85	44.7
BB27452		186	35.0
BB27453		156	30.4
BB27454		124	32.9
BB27455		142	41.4
BB27456		154	23.2
BB27458		94	8.6
BB27459		116	11.4
BB27460		155	6.2
BB27461		382	19.2
BB27462		298	14.6
BB27463		182	65.2
BB27464		152	10.9
BB27465		219	16.4
BB27466		83	25.8

Comments: REE's may not be totally soluble in MS61 method.



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Page #: 1
Date: 17-Jul-2003
Account: FOURC

CERTIFICATE VA03025280

Project : 4C West Block

P.O. No:

This report is for 20 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 11-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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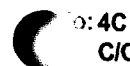


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Page #: 2 - A
Pages : 2 (A - C)
Date : 17-Jul-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03025280

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB27306		0.30	<0.2	0.73	6	<10	30	<0.5	<2	0.16	<0.5	14	20	103	1.48	<10
BB27307		0.30	0.2	0.91	<2	<10	30	<0.5	<2	0.21	<0.5	7	21	45	0.87	<10
BB27308		0.22	0.2	1.49	3	<10	60	<0.5	<2	0.18	<0.5	7	40	41	1.91	10
BB27309		0.20	<0.2	1.16	2	<10	110	<0.5	<2	0.32	<0.5	8	32	45	1.60	<10
BB27310		0.16	0.4	3.34	3	<10	190	1.1	<2	0.72	0.7	17	40	68	1.42	<10
BB27311		0.26	<0.2	2.03	<2	<10	250	0.6	<2	0.47	<0.5	19	82	74	2.72	<10
BB27312		0.32	<0.2	2.15	<2	<10	160	<0.5	<2	0.54	<0.5	17	45	107	1.78	10
BB27313		0.20	<0.2	1.41	<2	<10	100	<0.5	<2	0.51	<0.5	11	36	77	1.64	<10
BB27314		0.24	<0.2	2.09	<2	<10	300	<0.5	<2	0.39	<0.5	14	35	67	3.65	10
BB27315		0.34	<0.2	2.11	<2	<10	270	<0.5	<2	0.65	<0.5	16	33	90	4.01	10
BB27316		0.28	<0.2	1.52	<2	<10	110	<0.5	<2	0.22	<0.5	10	45	40	2.57	10
BB27317		0.26	<0.2	2.20	<2	<10	160	<0.5	<2	0.25	<0.5	14	65	54	3.13	10
BB27318		0.18	0.4	1.08	<2	<10	100	<0.5	<2	0.28	<0.5	5	35	27	1.28	<10
BB27319		0.40	<0.2	1.51	<2	<10	140	<0.5	<2	0.30	<0.5	14	42	98	1.84	<10
BB27320		0.26	<0.2	1.05	<2	<10	250	<0.5	<2	0.18	<0.5	48	199	32	3.14	<10
BB27321		0.24	<0.2	0.97	<2	10	130	<0.5	<2	0.18	<0.5	69	244	21	4.04	<10
BB27322		0.24	<0.2	1.15	<2	<10	120	<0.5	2	0.22	<0.5	26	151	43	3.10	<10
BB27323		0.28	<0.2	0.96	<2	<10	180	<0.5	2	0.62	<0.5	71	377	36	4.49	<10
BB27324		0.22	<0.2	1.16	2	<10	140	<0.5	2	0.37	<0.5	31	301	41	3.53	<10
BB27325		0.16	<0.2	0.92	<2	<10	120	<0.5	<2	0.11	<0.5	114	561	23	5.56	<10



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Page #: 2 - B

Pages : 2 (A - C)

Date : 17-Jul-2003

Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS

VA03025280

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB27306		<1	0.03	<10	0.32	198	<1	0.01	34	390	2	0.02	2	3	7	0.03
BB27307		<1	0.02	<10	0.27	114	<1	0.02	19	390	2	0.02	<2	1	7	0.04
BB27308		<1	0.05	10	0.43	137	<1	0.02	21	420	5	0.03	<2	3	11	0.08
BB27309		<1	0.07	10	0.40	267	1	0.03	21	790	2	0.05	<2	1	13	0.04
BB27310		<1	0.05	10	0.26	2850	1	0.02	28	2380	7	0.16	<2	1	24	0.02
BB27311		<1	0.10	<10	0.99	503	<1	0.03	52	770	4	0.01	2	7	18	0.10
BB27312		<1	0.09	<10	0.65	257	<1	0.02	40	540	4	0.01	<2	5	25	0.10
BB27313		1	0.04	<10	0.50	277	<1	0.02	29	530	5	0.05	<2	2	15	0.05
BB27314		<1	0.51	10	0.91	537	<1	0.02	17	1100	3	0.01	<2	7	12	0.29
BB27315		1	0.34	20	1.05	723	<1	0.02	24	1460	6	0.01	<2	8	13	0.26
BB27316		<1	0.14	10	0.60	251	<1	0.02	27	540	5	0.02	2	5	7	0.14
BB27317		<1	0.27	10	0.96	416	<1	0.02	53	840	5	0.03	<2	5	11	0.16
BB27318		<1	0.04	<10	0.28	343	<1	0.02	18	900	3	0.08	<2	<1	14	0.02
BB27319		<1	0.04	<10	0.58	232	<1	0.03	39	560	2	0.02	<2	4	13	0.05
BB27320		<1	0.03	10	3.20	608	1	0.01	736	630	11	0.01	2	4	12	0.04
BB27321		1	0.04	10	5.48	1470	<1	0.01	810	430	9	0.04	<2	5	15	0.03
BB27322		<1	0.13	10	3.58	445	<1	0.02	480	500	5	0.02	<2	6	12	0.09
BB27323		<1	0.10	10	4.91	1170	1	0.02	737	1080	9	0.09	<2	5	26	0.04
BB27324		<1	0.16	10	1.94	439	<1	0.02	700	790	6	0.06	<2	5	18	0.08
BB27325		<1	0.04	<10	1.90	1825	<1	<0.01	450	1500	5	0.07	<2	5	8	0.03



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Page # : 2 - C
Date : 17-Jul-2003
Account: FOURC

Project : 4C West Block

CERTIFICATE OF ANALYSIS VA03025280

Sample Description	Method Analyte Units LOR	ME-ICP41 Ti	ME-ICP41 U	ME-ICP41 V	ME-ICP41 W	ME-ICP41 Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB27306		<10	<10	32	<10	26
BB27307		<10	<10	22	<10	15
BB27308		<10	<10	44	<10	29
BB27309		<10	<10	37	<10	36
BB27310		<10	<10	34	<10	47
BB27311		<10	<10	67	<10	49
BB27312		<10	<10	50	<10	32
BB27313		<10	<10	40	<10	38
BB27314		<10	<10	102	<10	71
BB27315		<10	<10	99	<10	84
BB27316		<10	<10	74	<10	50
BB27317		<10	<10	78	<10	71
BB27318		<10	<10	30	<10	26
BB27319		<10	<10	44	<10	66
BB27320		<10	<10	33	<10	56
BB27321		<10	<10	34	<10	51
BB27322		<10	<10	47	<10	49
BB27323		<10	<10	42	<10	66
BB27324		<10	<10	50	<10	76
BB27325		<10	<10	65	<10	44



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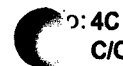
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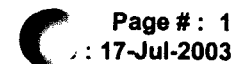


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Page #: 1

: 17-Jul-2003

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CERTIFICATE VA03025239

Project : 4C WEST BLOCK

P.O. No:

This report is for 12 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 11-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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Signature:



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Page #: 2 - A

Pages: 2 (A - C)

Date: 17-Jul-2003

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Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS

VA03025239

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB 27386		0.18	<0.2	0.35	2	<10	50	<0.5	<2	0.05	<0.5	1	21	5	0.49	<10
BB 27387		0.26	<0.2	1.80	<2	<10	120	0.5	<2	0.45	<0.5	16	112	95	2.83	<10
BB 27388		0.26	<0.2	2.76	<2	<10	170	1.2	<2	0.35	<0.5	18	104	53	3.59	10
BB 27389		0.28	<0.2	3.07	3	<10	170	1.1	<2	0.32	1.5	29	159	70	4.07	10
BB 27390		0.22	<0.2	2.46	2	<10	180	1.0	2	0.31	<0.5	13	99	32	3.61	10
BB 27391		0.18	<0.2	1.82	<2	<10	150	<0.5	<2	0.29	<0.5	35	183	23	3.69	<10
BB 27392		0.24	<0.2	1.40	<2	<10	150	<0.5	<2	0.28	<0.5	25	124	49	3.19	<10
BB 27393		0.22	<0.2	1.27	<2	<10	150	<0.5	<2	0.34	<0.5	22	112	49	2.91	<10
BB 27394		0.22	<0.2	1.43	<2	<10	130	<0.5	<2	0.21	<0.5	32	237	60	3.31	<10
BB 27395		0.24	<0.2	1.17	<2	<10	270	<0.5	<2	0.25	<0.5	34	188	58	3.57	<10
BB 27396		0.20	<0.2	0.63	<2	<10	60	<0.5	<2	0.08	<0.5	15	155	16	1.80	<10
BB 27397		0.20	<0.2	1.03	<2	<10	120	<0.5	<2	0.11	<0.5	32	286	27	3.64	<10

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Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03025239

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
BB 27386		<1	0.03	<10	0.10	46	<1	0.01	10	310	<2	0.03	<2	<1	6
BB 27387		<1	0.06	10	1.98	311	<1	0.02	283	360	23	0.03	<2	6	14
BB 27388		<1	0.08	10	2.34	511	<1	0.01	266	380	67	0.02	<2	8	17
BB 27389		<1	0.15	10	3.36	615	<1	0.01	514	260	98	0.01	<2	8	18
BB 27390		<1	0.12	10	1.88	557	2	0.01	116	500	26	0.05	<2	6	17
BB 27391		1	0.07	10	2.93	494	<1	0.02	541	650	6	0.04	<2	5	16
BB 27392		<1	0.12	10	2.03	395	<1	0.02	377	670	<2	0.04	<2	5	10
BB 27393		<1	0.09	10	1.70	384	<1	0.01	261	430	2	0.02	<2	5	12
BB 27394		<1	0.05	<10	3.36	328	<1	0.02	677	260	<2	0.01	<2	6	11
BB 27395		<1	0.10	10	1.96	486	<1	0.01	582	470	8	0.03	<2	6	13
BB 27396		<1	0.02	<10	0.96	330	<1	0.01	160	360	<2	0.02	<2	1	7
BB 27397		<1	0.03	<10	3.09	491	<1	0.01	594	530	3	0.04	<2	4	12

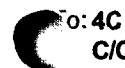
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North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218



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C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED Total # of

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 2 - C

Pages: 2 (A - C)

Date: 17-Jul-2003

Account: FOURC

Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS**VA03025239**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
BB 27386		<10	<10	15	<10	13
BB 27387		<10	<10	59	<10	174
BB 27388		<10	<10	79	<10	292
BB 27389		<10	<10	86	<10	517
BB 27390		<10	<10	92	<10	253
BB 27391		<10	<10	49	<10	63
BB 27392		<10	<10	55	<10	57
BB 27393		<10	<10	57	<10	55
BB 27394		<10	<10	62	<10	37
BB 27395		<10	<10	55	<10	72
BB 27396		<10	<10	29	<10	28
BB 27397		<10	<10	31	<10	50



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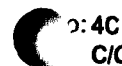
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VANCOUVER BC V6B 1L8

Page # : 1
Date : 20-Jul-2003

Account: FOURC

CERTIFICATE VA03025238

Project : 4C WEST BLOCK

P.O. No:

This report is for 24 SOIL samples submitted to our lab in North Vancouver, BC, Canada on 11-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: 4C
C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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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1016-510 W HASTINGS ST

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Page #: 2 - A

Pages: 2 (A - C)

Date: 20-Jul-2003

Account: FOURC

Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS

VA03025238

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
BB24225		0.20	0.4	1.40	<2	<10	120	<0.5	<2	0.49	<0.5	11	70	60	1.78	<10
BB24226		0.26	<0.2	1.44	2	<10	120	<0.5	<2	0.52	<0.5	16	78	77	1.87	<10
BB24227		0.26	<0.2	1.27	2	<10	160	0.9	<2	0.34	0.5	10	33	37	2.67	<10
BB27351		0.22	0.2	1.36	<2	<10	170	0.8	<2	0.47	<0.5	12	41	38	2.76	<10
BB27352		0.38	0.3	0.97	<2	<10	160	0.9	<2	0.26	0.8	12	28	36	2.92	<10
BB27353		0.28	0.2	0.50	<2	10	50	<0.5	<2	0.15	<0.5	101	734	25	4.38	<10
BB27354		0.24	0.2	1.40	4	<10	300	0.6	<2	0.57	0.9	29	148	110	3.43	<10
BB27355		0.34	<0.2	1.70	<2	<10	210	0.5	<2	0.43	<0.5	16	56	73	2.51	10
BB27371		0.24	<0.2	1.97	<2	<10	190	0.6	<2	0.37	<0.5	23	137	51	3.39	10
BB27372		0.22	0.2	1.43	12	<10	170	<0.5	<2	0.65	<0.5	13	42	22	2.60	<10
BB27373		0.36	<0.2	0.62	3	<10	70	<0.5	<2	0.31	<0.5	5	10	10	0.94	<10
BB27381		0.18	0.2	1.14	4	<10	240	<0.5	<2	0.56	0.7	25	156	84	2.90	<10
BB27382		0.30	<0.2	0.66	4	<10	60	<0.5	<2	0.21	<0.5	8	51	11	1.30	<10
BB27383		0.10	0.7	2.97	<2	<10	380	0.8	<2	0.76	<0.5	10	62	30	3.09	10
BB27384		0.10	0.2	1.43	7	<10	190	<0.5	<2	0.69	<0.5	9	28	18	1.88	<10
BB27401		0.18	<0.2	1.62	<2	<10	150	<0.5	<2	0.64	<0.5	20	118	150	2.43	<10
BB27407		0.22	0.2	2.64	<2	<10	230	1.1	<2	0.31	<0.5	13	49	27	3.79	10
BB27410		0.18	<0.2	1.28	<2	<10	150	0.6	<2	0.44	<0.5	9	26	19	2.16	10
BB27411		0.10	0.3	1.32	<2	<10	170	0.8	<2	0.47	0.6	11	36	34	2.62	<10
BB27438		0.28	<0.2	1.92	<2	<10	150	1.0	2	0.55	<0.5	13	37	35	3.53	10
BB27457		0.08	<0.2	1.38	<2	<10	200	<0.5	<2	0.59	0.6	20	73	59	2.71	<10
BB27467		0.30	<0.2	1.06	6	<10	100	<0.5	<2	0.27	<0.5	11	70	18	2.01	<10
BB27468		0.26	<0.2	1.02	17	<10	100	<0.5	<2	0.35	<0.5	9	17	15	1.84	<10
BB27469		0.34	<0.2	0.83	<2	<10	80	<0.5	<2	0.27	<0.5	10	77	16	1.68	<10



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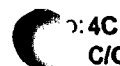
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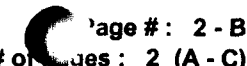


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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8



Page # : 2 - B

Date : 20-Jul-2003

Account: FOURC

Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03025238

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
BB24225		<1	0.09	10	0.90	243	1	0.02	144	430	4	0.02	<2	3	14	0.07
BB24226		<1	0.09	10	1.00	227	<1	0.02	111	470	6	0.03	<2	4	14	0.07
BB24227		<1	0.13	30	0.61	390	2	0.02	45	650	20	0.04	<2	5	19	0.07
BB27351		<1	0.14	30	0.72	605	1	0.02	53	630	13	0.06	<2	5	22	0.08
BB27352		<1	0.11	20	0.55	695	2	0.01	43	620	19	0.08	<2	6	16	0.05
BB27353		<1	0.03	<10	11.10	1190	<1	0.01	1575	190	4	0.01	<2	4	6	0.03
BB27354		<1	0.21	10	2.75	733	1	0.04	270	630	15	0.05	<2	6	18	0.09
BB27355		1	0.22	10	0.95	779	1	0.03	62	590	11	0.03	<2	5	18	0.11
BB27371		<1	0.11	10	1.62	633	1	0.02	328	470	16	0.03	<2	6	16	0.10
BB27372		<1	0.15	20	0.73	949	1	0.01	48	770	10	0.04	<2	2	25	0.07
BB27373		<1	0.13	10	0.30	144	1	<0.01	7	620	7	0.02	<2	1	20	0.04
BB27381		<1	0.17	10	2.75	580	1	0.04	282	650	18	0.03	<2	5	15	0.09
BB27382		<1	0.09	10	0.84	182	<1	0.01	80	480	6	0.01	<2	2	13	0.05
BB27383		<1	0.28	20	1.14	323	2	0.03	22	980	12	0.11	<2	6	35	0.13
BB27384		<1	0.16	10	0.62	402	1	0.01	20	490	9	0.04	<2	2	35	0.06
BB27401		<1	0.08	<10	1.39	245	<1	0.03	187	520	3	0.03	<2	4	14	0.08
BB27407		<1	0.74	30	1.11	586	2	0.02	27	520	12	0.02	<2	8	14	0.24
BB27410		<1	0.19	20	0.59	411	1	0.03	16	450	12	0.02	<2	4	16	0.08
BB27411		<1	0.13	30	0.67	684	2	0.02	43	610	13	0.06	<2	5	22	0.07
BB27438		<1	0.14	60	0.80	525	2	0.02	17	610	14	0.04	<2	5	29	0.10
BB27457		<1	0.09	10	0.94	1745	1	0.05	152	520	5	0.04	<2	4	19	0.06
BB27467		<1	0.14	10	0.91	312	1	0.01	98	640	8	0.02	<2	3	14	0.07
BB27468		<1	0.19	20	0.46	429	1	0.01	14	650	13	0.02	<2	2	24	0.05
BB27469		<1	0.11	10	0.84	254	<1	0.01	94	650	6	0.01	<2	3	10	0.07



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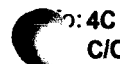
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Project: 4C

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Page #: 2 - C

Pages: 2 (A - C)

Date: 20-Jul-2003

Account: FOURC

Project: 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03025238

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	U	V	W	Zn
		ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
BB24225		<10	<10	37	<10	50
BB24226		<10	<10	43	<10	54
BB24227		<10	10	41	<10	105
BB27351		<10	10	43	<10	93
BB27352		<10	10	41	<10	110
BB27353		<10	<10	27	<10	43
BB27354		<10	<10	60	<10	237
BB27355		<10	<10	54	<10	82
BB27371		<10	<10	60	<10	102
BB27372		<10	<10	36	<10	70
BB27373		<10	<10	14	<10	26
BB27381		<10	<10	52	<10	190
BB27382		<10	<10	18	<10	41
BB27383		<10	10	99	<10	65
BB27384		<10	<10	31	<10	61
BB27401		<10	<10	58	<10	69
BB27407		<10	10	65	<10	106
BB27410		<10	<10	33	<10	74
BB27411		<10	10	40	<10	92
BB27438		<10	20	45	<10	75
BB27457		<10	<10	46	<10	66
BB27467		<10	<10	31	<10	55
BB27468		<10	<10	19	<10	65
BB27469		<10	<10	30	<10	41



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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 1
Date: 6-Jul-2003
Account: FOURC

CERTIFICATE VA03023386

Project : 4C WEST BLOCK

P.O. No:

This report is for 39 SEDIMENT samples submitted to our lab in North Vancouver, BC, Canada on 2-Jul-2003.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
BILL WENGZYNOWSKI

DOUG EATON

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-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: 4C
C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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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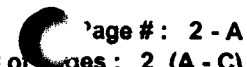


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Page #: 2 - A

Pages : 2 (A - C)

Date : 6-Jul-2003

Account: FOURC

Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS

VA03023386

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01	ME-ICP41 Ga ppm 10
M24222		0.24	0.6	2.88	4	<10	150	2.7	<2	1.50	0.7	14	72	25	3.11	10
M24223		0.24	<0.2	1.68	<2	<10	680	1.3	<2	0.68	<0.5	15	144	26	2.56	10
M24224		0.26	<0.2	1.00	<2	<10	870	0.8	<2	0.25	<0.5	7	64	12	1.53	<10
M24228		0.28	<0.2	1.12	<2	<10	1210	1.0	<2	0.39	0.7	12	89	38	2.89	10
M24229		0.26	0.2	1.47	<2	<10	210	0.7	<2	0.35	<0.5	10	42	32	1.99	10
M24230		0.34	<0.2	0.96	<2	<10	330	<0.5	<2	0.38	0.6	5	20	11	1.25	<10
M24231		0.32	0.3	2.23	2	<10	150	0.9	<2	0.65	<0.5	16	72	37	2.69	10
M24232		0.30	0.3	1.66	<2	<10	160	1.0	<2	0.45	<0.5	13	79	26	2.40	10
M24233		0.24	<0.2	1.66	2	<10	180	0.8	<2	0.42	1.3	14	79	40	2.51	10
M24234		0.22	<0.2	1.66	<2	<10	370	0.8	<2	0.38	0.5	14	54	40	2.55	10
M24235		0.30	0.2	1.96	<2	<10	230	1.0	<2	0.52	<0.5	27	124	182	3.71	10
M24236		0.50	<0.2	2.62	5	<10	150	2.2	<2	0.70	0.7	13	36	31	3.62	10
M24237		0.26	<0.2	1.33	2	<10	130	1.2	<2	0.48	0.6	9	31	16	2.67	10
BB27440		0.34	<0.2	1.93	<2	<10	150	0.5	<2	0.32	0.5	23	71	110	2.44	10
BB27441		0.30	0.2	3.09	4	<10	130	2.3	<2	0.50	<0.5	14	39	30	4.32	10
BB27442		0.18	0.4	2.78	<2	<10	260	1.1	<2	0.39	<0.5	14	58	40	3.47	10
BB27443		0.14	0.5	3.17	2	<10	230	1.0	<2	0.75	<0.5	19	45	51	4.05	10
BB27444		0.26	0.2	2.91	4	<10	370	1.3	<2	0.75	1.1	14	55	42	3.40	10
BB27445		0.24	0.6	2.52	<2	<10	200	1.5	<2	0.58	1.5	14	32	56	3.65	10
BB27446		0.36	1.4	2.58	3	<10	120	1.0	<2	0.38	<0.5	12	39	37	2.94	10
BB27447		0.24	0.4	2.59	6	<10	150	0.9	<2	0.43	<0.5	14	38	30	2.99	10
BB27448		0.12	1.0	3.27	2	<10	440	1.9	<2	0.67	0.5	16	43	57	3.66	10
BB27449		0.10	<0.2	2.28	3	<10	140	2.3	<2	0.86	1.9	18	42	45	4.57	10
BB27450		0.16	<0.2	0.67	<2	<10	150	<0.5	<2	0.27	<0.5	7	80	7	1.19	<10
BB27451		0.10	0.5	1.32	<2	<10	250	0.8	<2	0.86	<0.5	21	263	23	2.65	<10
BB27452		0.16	0.2	1.37	<2	<10	870	1.0	<2	0.36	<0.5	13	39	49	2.45	<10
BB27453		0.10	0.2	1.67	<2	<10	370	1.4	<2	0.45	0.7	14	43	50	3.34	10
BB27454		0.16	0.3	2.22	<2	<10	270	1.0	<2	0.33	<0.5	17	60	53	4.27	10
BB27455		0.14	<0.2	2.23	5	<10	200	1.4	<2	0.52	<0.5	14	33	68	3.26	10
BB27456		0.14	0.2	1.27	<2	<10	250	0.7	<2	0.30	0.8	11	40	46	2.56	<10
BB27458		0.10	0.2	1.13	<2	<10	150	0.8	<2	0.53	<0.5	8	47	25	1.62	10
BB27459		0.24	<0.2	1.71	<2	<10	230	0.8	<2	0.73	<0.5	32	126	155	3.37	<10
BB27460		0.22	<0.2	1.51	3	<10	280	0.8	<2	0.39	1.8	10	61	21	2.10	10
BB27461		0.20	0.4	3.01	5	<10	260	1.8	<2	1.04	4.2	20	100	68	3.40	10
BB27462		0.22	0.5	2.55	4	<10	360	1.3	<2	0.39	3.8	16	75	39	2.82	10
BB27463		0.22	0.2	1.79	<2	<10	160	1.7	<2	0.59	2.1	12	35	29	2.52	10
BB27464		0.34	<0.2	1.62	<2	<10	50	<0.5	<2	0.53	<0.5	16	62	134	1.29	<10
BB27465		0.34	0.2	2.19	<2	<10	90	<0.5	<2	0.53	<0.5	40	52	273	2.80	10
BB27466		0.44	<0.2	1.30	<2	<10	130	<0.5	<2	0.34	<0.5	11	53	43	1.60	<10



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



C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page #: 2 - B
Pages : 2 (A - C)
Date : 6-Jul-2003
Account: FOURC

Project : 4C WEST BLOCK

CERTIFICATE OF ANALYSIS VA03023386

Sample Description	Method Analyte Units LOR	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Ti % 0.01
M24222		<1	0.39	60	0.82	774	2	0.02	215	1450	9	0.08	<2	6	42	0.18
M24223		<1	0.20	30	1.14	511	1	0.03	183	610	12	0.04	<2	4	29	0.09
M24224		1	0.14	10	0.45	381	1	0.02	72	490	11	0.02	<2	3	22	0.06
M24228		1	0.14	20	0.59	885	3	0.03	81	740	17	0.03	<2	4	24	0.06
M24229		1	0.16	20	0.64	428	1	0.02	40	720	13	0.02	<2	4	16	0.08
M24230		1	0.12	20	0.31	298	1	0.02	22	600	9	0.02	<2	3	17	0.06
M24231		1	0.19	20	0.85	396	2	0.03	73	790	13	0.02	<2	5	25	0.14
M24232		1	0.24	20	0.77	404	1	0.02	83	800	7	0.02	<2	4	14	0.10
M24233		<1	0.21	30	0.85	501	2	0.02	132	540	11	0.03	<2	5	12	0.10
M24234		<1	0.19	20	0.79	1230	2	0.03	57	810	13	0.03	<2	5	17	0.09
M24235		<1	0.17	20	1.17	823	1	0.04	147	700	13	0.03	<2	8	15	0.10
M24236		<1	0.55	50	0.85	788	1	0.02	19	1170	13	0.05	<2	9	19	0.25
M24237		1	0.26	20	0.53	443	4	0.01	19	1130	21	0.02	<2	5	9	0.13
BB27440		<1	0.20	10	1.05	419	1	0.03	83	530	16	0.04	2	5	19	0.10
BB27441		<1	0.61	40	0.97	803	3	0.01	19	1000	14	0.04	2	8	15	0.27
BB27442		<1	0.50	10	1.03	400	2	0.02	42	470	13	0.03	2	8	35	0.18
BB27443		<1	0.39	40	1.21	787	1	0.04	28	870	38	0.04	<2	8	57	0.20
BB27444		1	0.34	30	1.29	571	3	0.04	37	770	22	0.03	<2	7	50	0.14
BB27445		<1	0.31	40	0.95	826	2	0.02	18	840	62	0.04	<2	7	25	0.11
BB27446		<1	0.56	30	0.71	270	1	0.02	50	970	52	0.04	<2	6	21	0.15
BB27447		<1	0.17	30	0.62	675	2	0.02	30	910	15	0.07	2	3	28	0.09
BB27448		<1	0.43	60	0.71	718	2	0.02	44	780	25	0.06	2	7	42	0.11
BB27449		<1	0.51	50	0.82	1235	3	0.03	28	1240	53	0.10	2	11	19	0.22
BB27450		<1	0.09	10	0.52	175	1	0.01	52	540	5	0.01	<2	2	14	0.05
BB27451		1	0.17	30	1.44	430	1	0.02	323	700	8	0.07	<2	4	26	0.08
BB27452		<1	0.13	10	0.48	539	2	0.03	45	570	15	0.02	<2	5	21	0.08
BB27453		1	0.18	20	0.66	560	3	0.02	43	650	29	0.06	<2	8	30	0.05
BB27454		<1	0.25	20	0.80	363	2	0.01	51	580	18	0.02	<2	9	18	0.11
BB27455		<1	0.22	70	0.80	814	2	0.03	18	870	23	0.04	<2	7	38	0.12
BB27456		<1	0.13	20	0.65	370	1	0.02	82	620	19	0.03	<2	6	17	0.06
BB27458		1	0.15	30	0.70	299	1	0.03	81	490	7	0.03	<2	3	13	0.08
BB27459		<1	0.31	10	1.09	762	<1	0.06	123	760	6	0.02	<2	10	17	0.12
BB27460		<1	0.15	10	0.58	674	1	0.02	46	810	12	0.03	<2	3	13	0.09
BB27461		1	0.32	20	1.03	701	2	0.06	63	980	28	0.08	<2	7	30	0.16
BB27462		<1	0.35	20	0.99	478	2	0.02	75	800	23	0.06	2	7	18	0.14
BB27463		1	0.30	20	0.55	746	4	0.02	41	960	17	0.07	<2	4	19	0.09
BB27464		<1	0.03	<10	0.71	132	<1	0.07	52	320	2	0.02	<2	3	18	0.07
BB27465		<1	0.12	10	0.90	313	<1	0.04	105	610	6	0.03	<2	5	20	0.11
BB27466		<1	0.22	20	0.84	234	<1	0.03	64	660	7	0.01	<2	4	13	0.08



ALS Chemex

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ALS Canada Ltd.

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Project: 4C

C/O ARCHER CATHRO & ASSOCIATES (1981) LIMITED Total # of pages: 2 (A - C)

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page #: 2 - C
Date : 6-Jul-2003
Account: FOURC

Project : 4C WEST BLOCK

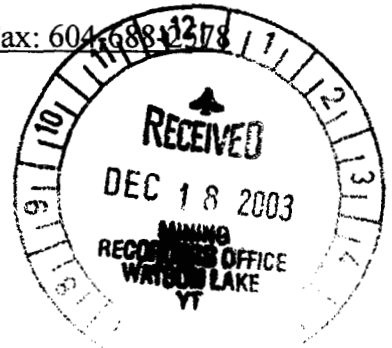
CERTIFICATE OF ANALYSIS VA03023386

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
M24222		<10	20	66	<10	108
M24223		<10	<10	38	<10	91
M24224		<10	<10	22	<10	88
M24228		<10	<10	46	<10	204
M24229		<10	<10	40	<10	82
M24230		<10	<10	24	<10	99
M24231		<10	10	67	<10	110
M24232		<10	10	41	<10	83
M24233		<10	<10	36	<10	331
M24234		<10	<10	48	<10	98
M24235		<10	<10	77	<10	128
M24236		<10	<10	71	10	150
M24237		<10	10	47	10	131
BB27440		<10	<10	54	<10	148
BB27441		<10	<10	91	<10	162
BB27442		<10	<10	77	<10	95
BB27443		<10	20	70	<10	156
BB27444		<10	<10	79	<10	154
BB27445		<10	30	49	<10	253
BB27446		<10	<10	44	<10	203
BB27447		<10	20	54	<10	110
BB27448		<10	10	53	<10	225
BB27449		<10	<10	81	<10	298
BB27450		<10	<10	19	<10	29
BB27451		<10	30	42	<10	63
BB27452		<10	<10	54	<10	140
BB27453		<10	10	59	<10	148
BB27454		<10	<10	68	<10	116
BB27455		<10	30	51	<10	116
BB27456		<10	<10	48	<10	134
BB27458		<10	<10	28	<10	65
BB27459		<10	<10	70	<10	71
BB27460		<10	<10	49	<10	130
BB27461		<10	<10	95	<10	347
BB27462		<10	<10	66	<10	288
BB27463		<10	10	62	<10	158
BB27464		<10	<10	33	<10	52
BB27465		<10	<10	53	<10	150
BB27466		<10	<10	38	<10	42

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

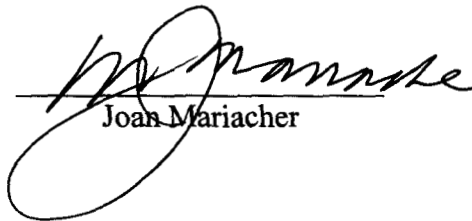
Fax: 604-688-2378



AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

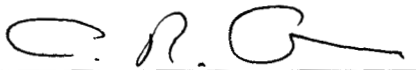
That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the 4C 1-122, 271-308 and 355-438
mineral claims on Claim Sheet 105B/16 and 105G/1 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 17th day of December, 2003

094458



Notary Public, Yukon Territory

Statement of Expenditures
4C 1-122, 271-308, 355-438 Mineral Claims
December 5, 2003

Labour

D. Eaton (geologist) – January to November – 67 hours at \$60/hr	\$ 4,301.40
B. Wengzynowski (geologist) – January to November – 80 hours at \$60/hr	5,136.00
G. Downs (fieldman) May – 11 hours at \$36/hr	423.72
P. Sack (fieldman) May – 31 hours at \$36/hr	1,194.12
plus June 22 to July 7, 9, July 28 to August 13, September 2, 1/2 – 3 total 35 1/2 days at \$288/day	10,939.68
D. Turner (geologist) – June 22 to July 7, 28 – total 17 days at \$288/day plus October & November – 5 hours at \$36/hr	5,238.72 192.60
M. Dumula (geologist) – July 28 to August 13 – total 17 days at \$256/day plus October & November – 55 hours at \$36/hr	4,656.64 2,118.60
N. Bazowski (fieldman) – July 22 to July 7, July 28 to August 13 – total 33 days at \$224/day	7,909.44
H. Preto (fieldman) – June 22 to July 7, August 5 to 13 – total 25 days at \$224/day	5,992.00
J. Mariacher – January to June – 127 1/4 hours at \$44.45/hr plus July to November – 114 hours at \$55/hr	6,052.20 <u>6,708.90</u>
	60,864.02

Expenses

Field room and board – 127 1/2 days at \$115/day	15,688.88
Kluane Airways – Hughes 500 at \$810/hr plus fuel	12,782.21
Heli Dynamics – Bell 206B at \$900/hr plus fuel	2,053.33
ALS Chemex Labs	6,795.92
Atlas Devcorp – expediting	3,190.18
North 60 Petro	926.55
Sat phone rental - 34 days at \$30/day	1,091.40
Truck rental and fuel	1,581.08
Freight – Greyhound, Byers etc	<u>356.00</u>
	44,465.55
	<u>\$105,329.57</u>

In Account With

Project

4C PROJECT
JANUARY 31, 2003

Date

LABOUR

Field

A. ARCHER - 5 HRS AT 66/Hr

230.00

R. CARNE - 2 HRS AT 60/Hr DEL

120.00

D. EATON - 14 HRS AT 60/Hr

840.00

B. WIENGIENOWSKI - 15 HRS AT 60/Hr

1095.00

Accounting and Expediting J. Mariacher-

14 1/2 hrs at \$44.45/hr

644.53

3029.53

OTHER SERVICES

Room & Board in Whitehorse

days at \$90/day

Field equipment from AC stock

Printing

16.00

Photocopies

249 @ .15 = 37.35

53.35

53.35

Rentals from AC

EXPENSES

Petty Cash

Telephone

SPAT DESIGNS - 180.00 + 105.00

285.00

CORPORATE COURIER

49.25

GREYHOUND COURIER

29.57

LETTER SHOP

535.35

899.17

MANAGEMENT 6% on Expenses
on Field A/C

53.95

GST (R100247867) 7% on 4036.00

282.52

4318.52

E=GST exempt

In Account With
 FOUR CORNERS PROJECT
 FEBRUARY 28, 2003

Project
 Date

LABOUR
 Field

A. ARCHER - 1 HR AT 66/Hr

66.00

D. EATON - 3 HR AT 60/Hr

180.00

M. WENGLYNOWSKI - 3 HR AT 60/Hr

180.00

Accounting and Expediting J. Mariacher - 12 hrs at \$44.45/hr

533.40

959.40

OTHER SERVICES

Room & Board in Whitehorse days at \$90/day

Field equipment from AC stock

Printing

Photocopies 93 @ .15

13.95

13.95

Rentals from AC

EXPENSES

Petty Cash

Telephone

JOAN M XV
 CORPORATE COURIERS

CL

5.25

2.15

7.40

MANAGEMENT 6% on Expenses
 on Field A/C

0.44

~~0~~

0.44

981.19

GST (R100247887) 7% on 981.19

68.68

E=GST exempt

1049.87

FOUR CORNERS PROJECT
MARCH 31, 2003

E=GST exempt

1592.35

In Account With

Project
Date

FOUR CORNERS PROJECT
MAY 31, 2003

LABOUR				
Field	D. EATON - 42 Hrs AT 60/Hr	2520.00		
	B. WENZ-MONKIE - 27 1/2 Hrs AT 60/Hr	1650.00		
	E. DOWNS - 16 Hrs AT 36/Hr	576.00		
	V. SACK - 47 Hrs AT 36/Hr	1692.00		
Accounting and Expediting J. Marlacher - 51 1/4 hrs at \$44.45/hr		2278.06	8716.06	
OTHER SERVICES				
Room & Board in Whitehorse	days at \$90/day			
Field equipment from AC stock		62	4.80	
Printing	78.00 + 29.50	Photocopies 136 + 108 @ .15 = 36.60	144.10	
Rentals from AC				148.90
EXPENSES				
Petty Cash				
Telephone				
MILLS BRICKS		7.20		
BUILDERS SURVEY LANS		30.49		
CLAIM MAPS		16.00		
DOMINION BLUE		42.64		
DEARIN EQUIPMENT - 1408.00 + 27.00		1435.00	1531.33	
MANAGEMENT 6% on Expenses on Field A/C		91.88	91.88	
GST (R100247887) 7% on 10488.17			10488.17	
			734.17	
E=GST exempt				11222.34

In Account With

Project

FOUR CORNERS PROJECT

Date

JUNE 30, 2003

LABOUR

Field

D. EATON - 4 HRS AT 60/Hr

240.00

B. WENZELHORSKI - 5 1/4 HRS AT 60/Hr

330.00

L. GROUT - 11 1/4 DAY AT 800/DAY

4500.00

G. JONES - 1 DAY AT 288/DAY

288.00

P. SACK - 26 DAYS AT 288/DAY

7488.00

D. TURNER - 23 DAYS AT 288/DAY

6674.00

N. DALOWSKI - 25 DAYS AT 224/DAY

5600.00

S. EATON - 3 1/4 DAYS AT 224/DAY

728.00

H. PRETO - 23 DAYS AT 224/DAY

5152.00

Accounting and Expediting J. Mariacher-

31 1/4 hrs at \$44.45/hr

1389.06

28239.06

OTHER SERVICES

Room & Board in Whitehorse 13 3/4 days at \$90/day

1237.50

Field equipment from AC stock 457.97 + 88 MANHOURS AT 20/DAY = 1760.00

2217.97

Printing Photocopies 105 @ .15

15.75

Rentals from AC JUNE 9-30 - SAT SYSTEM AT 30/DAY + 3 CAMS AT 16/DAY
+ 2 VHS CAMS AT 7/DAY + SDX II AT 10/DAY

1276.00

LEOMAR COURIER

13.85

4761.07

EXPENSES

Petty Cash 19.99

19.99

Telephone 39.45 + 31.23 + 1095 + 84.14

165.75

JOAN MAXWELL

D3

684.50

ROSS RIVER SERVICE - 40.24 + 32.22

72.46

ATLAS DEVELOP - 333.33 + 1644.30

1977.63

MARSH CANADA

1061.50

BILL W. XP A/C - 25.50 + 1.83

27.33

DARY MCCALLAN QLS

26.45

DEKIN EQUIPMENT

5.50

BYEL TRANSPORTATION

36.65

G. JONES XP A/C

D1

20.00

GREENHORN COURIER

73.94

P. SACK XP A/C

D1

35.99

RIVERDALE SUPPLA

2006.14

NORDAN LEASING

204.17

MALPHOLAN RENTALS - 2991.51 + 302.61

332.52

VOLTEL CREEK SUPPLA

12.24

7963.76

MANAGEMENT 6% on Expenses
on Field A/C

477.83

22.64

500.47

47464.36

GST (R100247887) 7% on 41464.36

2902.57

E=GST exempt

44366.87

In Account With

Project

FOUR CORNERS PROJECT

Date

JULY 31, 2003

LABOUR			
Field	D. WEX62/ROWSKI - 7 1/2 Hrs AT 60/Hr	450.00	
	P. SACK - 12 3/4 DAYS AT 288/DAY	3672.00	
	D. TURNER - 7 1/2 DAYS AT 288/DAY	2160.00	
	M. SUMALA - 4 DAYS AT 256/DAY	1024.00	
	N. BAZOWSKI - 11 DAYS AT 224/DAY	2464.00	
	H. PRETO - 7 1/2 DAYS AT 224/DAY	1680.00	
Accounting and Expediting J. Mariacher - 4Y hrs at \$ 55/hr		2310.00	13760.00
OTHER SERVICES			
Room & Board in Whitehorse	4 days at \$90/day	360.00	
Field equipment from AC stock	126.40 + 4734/DAY AT 20/DAY = 851.00	978.40	
Printing	Photocopies 179 @ .15	26.85	
Rentals from AC 11 DAYS JULY - 3 COMM AT 16/DAY + 2 V/LARK AT 2/DAY		638.00	
+ SAT PHONE AT 30/DAY + 5BX 11 AT 10/DAY		27.70	2033.95
LEONIS COURIER - 2 AT 13.85			
EXPENSES			
Petty Cash	15.17 01	15.17	
Telephone	27.80 + 26.27	54.07	
ATLAS RECORD		583.33	
INTEGRAPHIX		79.36	
APR NORTH		30.99	
ROCK RIVER SERVICE		23.37	
DHL Xpress		18.19	
GREYHOUND COURIERS		66.06	
CORPORATE COURIERS		36.64	
NORTH GO PETRO - 183.654 + 1298.90 6Y		1482.55	
KLVANE AIRWAYS		10860.00	
SPORTSLADGE		95.39	
MACPHERSON RENTALS		46.16	
NORCAN LEASING		246.10	
RIVERDALE SUPER A		1519.59	
MILLS BASICS		5.02	
MAZS FIREWEED		114.45	
JOHN M. KEMPEL - 170.56 01 + 198.27 03		368.83	15565.27
MANAGEMENT 6% on Expenses on Field A/C		933.92	1133.86
		199.94	32493.08
GST (R100247867) 7% on 32493.08			2274.52
E=GST exempt			34767.60

In Account With

Project

FOUR CORNELL PROJECT

Date

AUGUST 1 - SEPTEMBER 30, 2003

LABOUR

Field

D. EATON - 8 HRS AT 60/Hr
B. WENGROWSKI - 10 HRS AT 60/Hr480.00
600.00P. SACK - 15 1/2 DAYS AT 288/DAY
M. DUMALA - 1 1/2 DAY SEPT AT 288/DAY
- 13 1/2 DAYS AUG AT 256/DAY
N. BAZOWSKI - 14 DAYS AT 224/DAY
H. RETO - 10 DAYS AT 224/DAY4464.00
144.00
3456.00
3136.00
2240.00

Accounting and Expediting

J. Mariacher-

3434 hrs at \$ 55/hr

1911.25

16431.25

OTHER SERVICES

Room & Board in Whitehorse 1 1/2 days at \$90/day

135.00

Field equipment from AC stock 584.85 + 48 MANHATTAN AT 20 = 960.

1544.85

Printing

Photocopies

600 @ .15

90.00

Rentals from AC AUGUST 1-13 3 1/2 COM AT 16/DAY + 2 UV AT 7/DAY

754.00

SAT PHONE AT 50/DAY + 50/Hr AT 10/DAY

51.40

LODMIS COURIER - 4 AT 13.85

2579.25

EXPENSES

Petty Cash

Telephone 14.54 + 62.18 + 15.55 + 30.05 + 36.26 + 15.90

173.58

KLUANE AIRWAYS - 253.44 + 72.4

3258.00

ATLAS BEVERLY - 1566.03 + 61 + 222.22

1915.25

GREYHOUND

57.60

HELI DYNAMICS

1519.00

SUNRISE SERVICE

37.41

JOAN M. XENNET - 83.7301 + 49.8103 + 90.4631 + 73.0503

666.89

P. SACK, N. BAZOWSKI, H. RETO - 50 EACH BEVERLY BONKS

150.00

D. EATON XENNET - 8.0383 + 84.0103

90.04

L. CORBETT XENNET

13.35

DHL XRESS

12.56

INTEGRAPHICS

11.38

MATHESON RENTAL

89.84

VANOVER STAFFING

52.80

NOLAN LEASING

29.16

8514.72

MANAGEMENT 6% on Expenses
on Field A/C

510.90

453.79

964.69

28490.11

GST (R100247667) 7% on 28490.11

1594.31

E=GST exempt

30,484.42



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Page 1 of 1

INVOICE NUMBER: 1033189

BILLING INFORMATION

Certificate: **VA03023386**

Account: **FOURC**

Date : **06-Jul-2003**

Project : **4C WEST BLOCK**

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
39	PREP-41	Dry, Sieve (180 um) Soil	1.88	73.32
9.32	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	5.22
39	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	161.07
39	GEO-AR01	Aqua regia digestion	1.88	73.32

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SUBTOTAL (CAD) \$ 335.43
GST R100938885 \$ 23.48
TOTAL PAYABLE (CAD) \$ 358.91

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Page 1 of 1

INVOICE NUMBER: 1034951

BILLING INFORMATION

Certificate: **VA03025238**
Account: **FOURC**
Date : **20-Jul-2003**
Project : **4C WEST BLOCK**
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
24	PREP-41	Dry, Sieve (180 um) Soil	1.88	45.12
5.62	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	3.15
24	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	99.12
24	GEO-AR01	Aqua regia digestion	1.88	45.12

SUBTOTAL (CAD) \$ 215.01

GST R100938885 \$ 15.05

TOTAL PAYABLE (CAD) \$ 230.06

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INVOICE NUMBER: 1034959

BILLING INFORMATION

Certificate: **VA03025239**

Account: **FOURC**

Date : **17-Jul-2003**

Project : **4C WEST BLOCK**

P.O. No.:

Quote:

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C1

Comments:

QUANTITY	CODE	ANALYSED FOR - DESCRIPTION	UNIT	TOTAL
			PRICE	
12	PREP-41	Dry, Sieve (180 um) Soil	1.88	22.56
2.70	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	1.51
12	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	49.56
12	GEO-AR01	Aqua regia digestion	1.88	22.56

SUBTOTAL (CAD) \$ 96.19

GST R100938885 \$ 6.73

TOTAL PAYABLE (CAD) \$ 102.92

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INVOICE NUMBER: 1034960

BILLING INFORMATION

Certificate: **VA03025280**
Account: **FOURC**
Date : **17-Jul-2003**
Project : **4C West Block** 
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
20	PREP-41	Dry, Sieve (180 um) Soil	1.88	37.60
5.06	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	2.83
20	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	82.60
20	GEO-AR01	Aqua regia digestion	1.88	37.60

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ATTN: ACCOUNTS PAYABLE
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SUBTOTAL (CAD) \$ 183.13
GST R100938885 \$ 12.82
TOTAL PAYABLE (CAD) \$ 195.95

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INVOICE NUMBER: 1038405

BILLING INFORMATION

Certificate: **VA03028818**

Account: **FOURC** ↗

Date : **11-Aug-2003**

Project : **4C WEST BLOCK**

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
39	ME-MS61	47 element four acid ICP-MS	13.50	526.50
39	GEO-4A01	Four Acid Dig - ME-MS61	3.00	117.00

SUBTOTAL (CAD) \$ 643.50

GST R100938885 \$ 45.05

TOTAL PAYABLE (CAD) \$ 688.55

To: 4C

ATTN: ACCOUNTS PAYABLE

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Page 1 of 1

INVOICE NUMBER: 1038406

BILLING INFORMATION

Certificate: **VA03028819**
Account: **FOURC**
Date : **10-Aug-2003**
Project : **4C WEST BLOCK** 
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
24	ME-MS61	47 element four acid ICP-MS	13.50	324.00
24	GEO-4A01	Four Acid Dig - ME-MS61	3.00	72.00

To: 4C
ATTN: ACCOUNTS PAYABLE
C/O ARCHER CATHRO & ASSOCIATES (1981)
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SUBTOTAL (CAD) \$ 396.00
GST R100938885 \$ 27.72
TOTAL PAYABLE (CAD) \$ 423.72

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INVOICE NUMBER: 1038408

BILLING INFORMATION

Certificate: **VA03029060**

Account: **FOURC** *W*

Date : **11-Aug-2003**

Project :

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
12	ME-MS61	47 element four acid ICP-MS	13.50	162.00
12	GEO-4A01	Four Acid Dig - ME-MS61	3.00	36.00

SUBTOTAL (CAD) \$ 198.00

GST R100938885 \$ 13.86

TOTAL PAYABLE (CAD) \$ 211.86

To: **4C**
ATTN: ACCOUNTS PAYABLE
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INVOICE NUMBER: 1038409

BILLING INFORMATION

Certificate: **VA03029061**

Account: **FOURC**

Date : **12-Aug-2003**

Project : **4C West Block** *W*

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
20	ME-MS61	47 element four acid ICP-MS	13.50	270.00
20	GEO-4A01	Four Acid Dig - ME-MS61	3.00	60.00

SUBTOTAL (CAD) \$ 330.00

GST R100938885 \$ 23.10

TOTAL PAYABLE (CAD) \$ 353.10

To: **4C**
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INVOICE NUMBER: 1039937

BILLING INFORMATION

Certificate: **VA03030225**
Account: **FOURC** 
Date : **21-Aug-2003**
Project : 4C West Block
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

QUANTITY	CODE	ANALYSED FOR		UNIT PRICE	TOTAL
		-	DESCRIPTION		
1	BAT-01		Administration Fee	22.50	22.50
211	PREP-41		Dry, Sieve (180 um) Soil	1.88	396.68
55.46	PREP-41		Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	31.06
211	ME-ICP41		34 Element Aqua Regia ICP-AES	4.13	871.43
211	GEO-AR01		Aqua regia digestion	1.88	396.68

To: 4C
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SUBTOTAL (CAD) \$ 1,718.35
GST R100938885 \$ 120.28
TOTAL PAYABLE (CAD) \$ 1,838.63

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Page 1 of 1

INVOICE NUMBER: 1041049

BILLING INFORMATION

Certificate: **VA03031310**

Account: **FOURC**

Date : **26-Aug-2003**

Project : 4C West

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
120	PREP-41	Dry, Sieve (180 um) Soil	1.88	225.60
27.48	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	15.39
120	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	495.60
120	GEO-AR01	Aqua regia digestion	1.88	225.60

SUBTOTAL (CAD) \$ 984.69

GST R100938885 \$ 68.93

TOTAL PAYABLE (CAD) \$ 1,053.62

To: 4C
ATTN: ACCOUNTS PAYABLE
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INVOICE NUMBER: 1041050

BILLING INFORMATION

Certificate: **VA03031311**
Account: **FOURC**
Date : **26-Aug-2003**
Project : **4C West** 
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
138	PREP-41	Dry, Sieve (180 um) Soil	1.88	259.44
30.24	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	16.93
138	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	569.94
138	GEO-AR01	Aqua regia digestion	1.88	259.44

SUBTOTAL (CAD) \$ 1,105.75

GST R100938885 \$ 77.40

TOTAL PAYABLE (CAD) \$ 1,183.15

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INVOICE NUMBER: 1043082

BILLING INFORMATION

Certificate: **VA03033024**

Account: **FOURC**

Date : **04-Sep-2003**

Project : **4C West Block** *sp*

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
1	BAT-01	Administration Fee	22.50	22.50
1	PREP-41	Dry, Sieve (180 um) Soil	1.88	1.88
0.32	PREP-41	Wt. Charge (kg) - Dry, Sieve (180 um) Soil	0.56	0.18
1	ME-ICP41	34 Element Aqua Regia ICP-AES	4.13	4.13
1	GEO-AR01	Aqua regia digestion	1.88	1.88

SUBTOTAL (CAD) \$ 30.57

GST R100938885 \$ 2.14

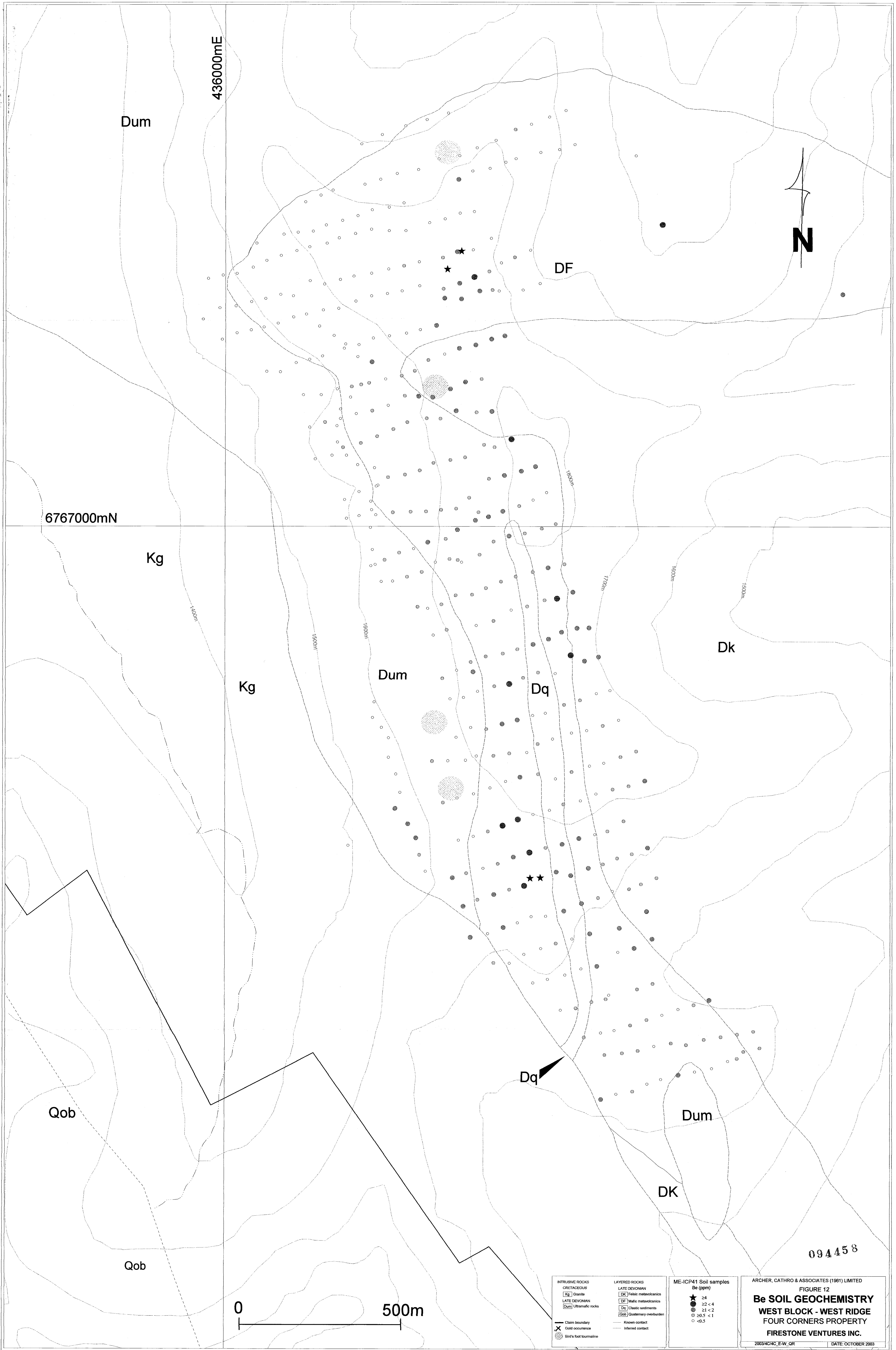
TOTAL PAYABLE (CAD) \$ 32.71

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094 45 8



INTRUSIVE ROCKS		LAYERED ROCKS	
CRETACEOUS		LATE DEVONIAN	
Kg - Granite		DK - Felsic metavolcanics	
LATE DEVONIAN		DF - Mafic metavolcanics	
Dum - Ultramafic rocks		Ds - Clastic sediments	
		Qob - Quaternary overburden	
Claim boundary		Known contact	
Foliation orientation		Inferred contact	
X - Gold occurrence		X - Beryl occurrence	

