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ASSESSMENT REPORT

094538

describing

GEOLOGY, MINERALIZATION AND GEOCHEMISTRY

at the

SHARK PROPERTY,

Shark 1-6 YC23168-YC23183

17-64 YC24131-YC24178

65-94 YC24327-YC24356

NTS 105F/8 and 9

Latitude 61°30'N Longitude 132°30'W

in the

Watson Lake Mining District

prepared by

Archer, Cathro & Associates (1981) Limited

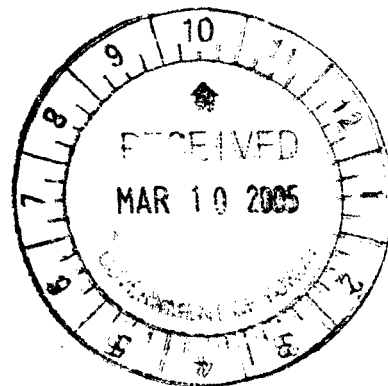
for

TRUE NORTH GEMS INC.

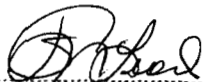
by

William A. Wengzynowski, P.Eng.

February 2005



Costs associated with this report have been
approved in the amount of \$ 39,850.00
for assessment credit under Certificate of
Work No. QL 25734



Mining Recorder
Watson Lake Mining District

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INTRODUCTION

The Shark property is a mineral property located in the Ketza-Seagull District of southern Yukon Territory and is wholly owned by True North Gems Inc. Archer, Cathro & Associates (1981) Limited was retained by True North in 2004 to conduct a property scale program to explore for and extract gem quality beryl from targets in the eastern and western parts of the property respectively. This report describes the results from work done in 2004 at the Shark property.

The work was conducted between July 1 and August 12. It consisted of geological mapping, prospecting, soil sampling, beryl specimen extraction and claim surveys. The author participated in and supervised the exploration. His Statement of Qualifications appears in Appendix I.

PROPERTY, LOCATION AND ACCESS

The Shark property comprises a contiguous block of 94 mineral claims and is located in southern Yukon at latitude 61°30'N and longitude 132°30'W on NTS 105F/8 and 9 (Figure 1). Figure 2 displays the location of individual claims comprising the property. The claims were staked under the Yukon Quartz Mining Act and are registered with the Watson Lake Mining Recorder in the name of Archer Cathro which holds them in trust for True North. They cover an area of approximately 1900 hectares. Mineral claim tenure information is summarized as follows:

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Shark 1-16	YC23168-YC23183	March 30, 2013
17-64	YC24131-YC24178	March 30, 2013
65-94	YC24327-YC24356	March 30, 2009

* Expiry dates include 2004 work that has been filed for assessment credit but not yet accepted.

The Shark property is located 50 km south of Ross River in southern Yukon. The property is approximately 10 km southwest of the former Ketza River mine and its gravel airstrip. Year round access to the Shark claims is via helicopter from Ross River. A gravel road from the Robert Campbell Highway to the Ketza River mine site is usable during summer and fall and a 4x4 trail extends from the mine to the northern part of the Shark property. In summer 2004, access to the property was by truck to the Ketza River airstrip, and then from the airstrip to the property via helicopter.

HISTORY

Considerable work has been done in the Ketza-Seagull District since the late 1960s. Exploration focussed on lead-zinc veins, gold veins and manto deposits, uranium-rare earth element (REE) prospects, and volcanogenic massive sulphide mineralization (VMS) (Deklerk,



ALASKA

INUVIK
YUKON
NATIONAL PARK
VUNTUT
NATIONAL PARK

YUKON

DEMPESTER
HWY

DAWSON

KLONDIKE

MAYO

YUKON

TERRITORY

CARMACKS

FARO

RIVER

KLUANE
NATIONAL
PARK

HAINES
JUNCTION

WHITEHORSE

CARCROSS

SKAGWAY

HAINES

ATLIN

LOGTUNG BERYL
PROSPECT

CASSIAR

BRITISH

COLUMBIA

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

SHARK PROPERTY

0 50 100 150 200km

2005/SHARK/F1

DATE: FEBRUARY 2005

NORTHWEST

TERRITORIES

LENEED EMERALD
PROSPECT

KETZA RIVER
MINE ROAD

ROSS RIVER

ROBERT

CAMPBELL

NAHANN

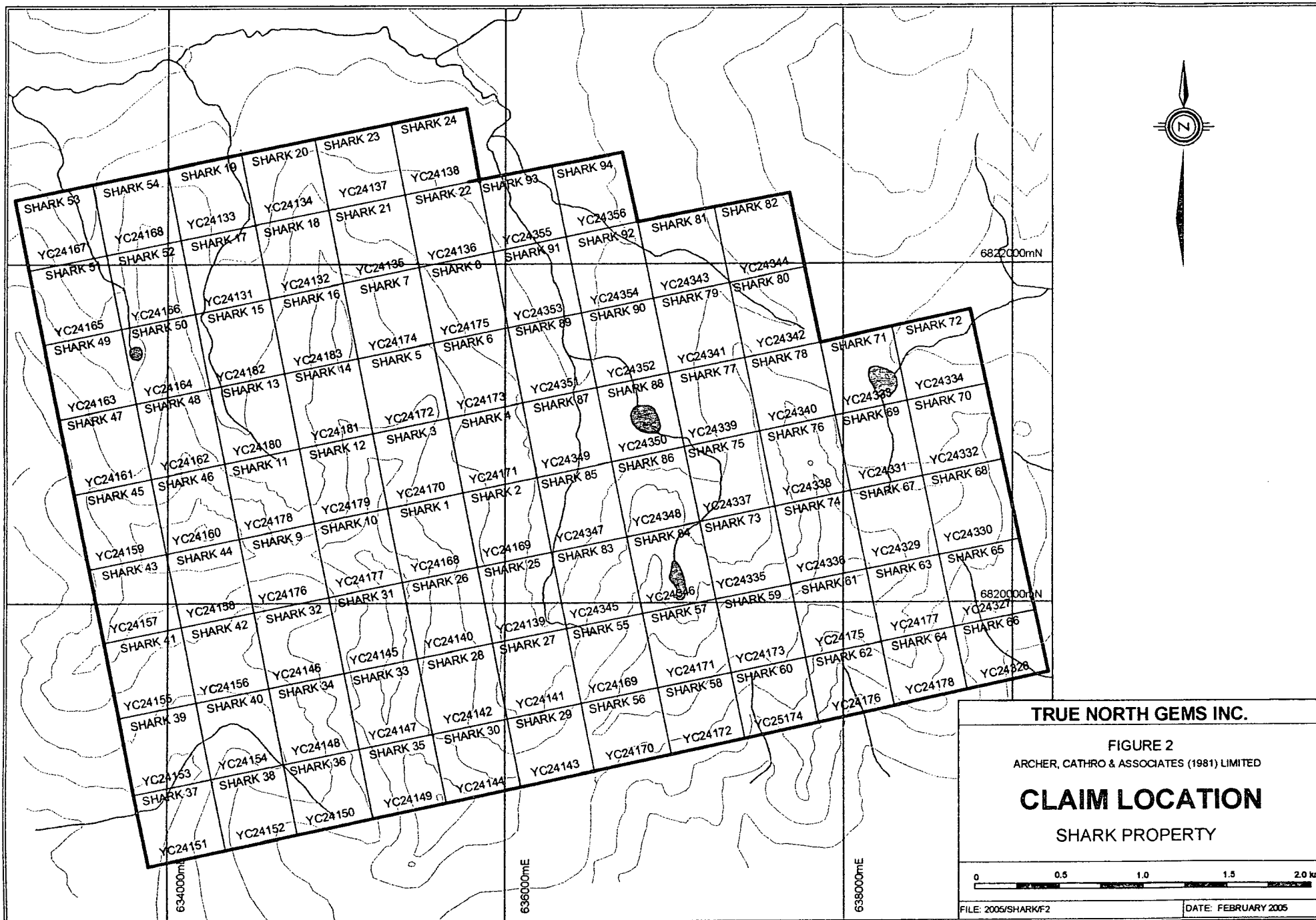
RANGE ROAD

SHARK
PROPERTY

TSA DA GLISZA
EMERALD PROSPECT

WATSON LAKE

HWY



2002). Claims that once covered parts of the current Shark property are described in the following paragraphs.

In 1976, the Guano claims were staked by Ukon Joint Venture (Chevron Minerals Ltd. and Kerr Addison Mines Limited). Those claims covered the eastern portion of the present Shark property. They were explored for uranium and REE associated with skarns and veins developed peripheral to a Mississippian syenite stock. Work on the Guano claims in 1976 and 1977 included geological mapping, ground radiometrics, airborne radiometrics, and geochemical sampling (Archer and Onasick, 1976 and Archer, 1977). F. Chronic also completed a master's thesis at the University of British Columbia (UBC) on the Guano property. Relevant work from her thesis includes detailed geological mapping, assays and petrological studies (Chronic, 1979).

During 1976, Archer Cathro performed exploration peripheral to the Guano claims on behalf of Ukon Joint Venture. During this work D. Eaton discovered an unidentified blue mineral within a quartz vein cutting syenite talus. The occurrence was documented in a traverse report but its importance was not appreciated until Dr. Lee Groat from UBC identified the mineral as beryl in fall 2000.

In the late 1980s the White and PS claims were staked by Mountain Province Mining Inc. to cover gold targets. Most of those claims were north of the Shark claims but some of them once covered the eastern portion of the current Shark property. Exploration work done by Mountain Province focussed on the northern portion of its claims and consisted of cursory inspections.

In 1988, B. Hall staked the Matthew claims to cover an area that included the southwestern corner of the Shark property. In 1990, he optioned his property to Cascade Pacific Resources Ltd., which in turn optioned it to Granges Inc. and later to Oro Bravo Resources Ltd. During the 1990s the Matthew claims expired and were replaced by the Mamu-Bravo-Kulan claims. Work done at that time on ground now covered by the Shark property included geological mapping, geochemical sampling, magnetometer surveys, and VLF-EM surveys (Doherty, 1996). Exploration during the 1990s was directed toward Kuroko type VMS mineralization, and most of the geochemical and geophysical results are not applicable to beryl exploration.

In early winter 2002, True North contracted Archer Cathro to perform gem exploration in the Yukon on its behalf. Research of published data, assessment reports and old traverse reports from Archer Cathro's database identified potential gem targets. The initial 16 Shark claims were staked in December 2002 to cover the beryl occurrence discovered by D. Eaton in 1976. Exploration at this target in 2003 discovered the True Blue aquamarine occurrence from which two mini-bulk samples were collected and 37 beryl bearing specimens were extracted.

GEOMORPHOLOGY

The property is located within the Pelly Mountains on the southwest side of the Tintina Trench. It is in the headwaters of the McConnell River which is part of the Yukon River watershed. Local terrain consists of rugged mountains separated by wide glaciated valleys with fairly gentle floors. Valley bottoms are mostly covered by glaciofluvial outwash and are flanked by lateral moraines and moderate to steep hillsides (typically 20 to 50°). The property is centred on a

prominent west trending ridge with a series of north trending spurs. Outcrop is most abundant in cirques on the north side of the main ridge and in actively eroding creek cuts. Ice sheets covered the entire Pelly Mountain area during the Pleistocene and alpine glacial features such as cirques, tarn lakes and moraines are common.

Elevations on the property are between 1250 and 2150 m. Tree line is at about 1500 m. Vegetation ranges from scattered stunted spruce, balsam and willow at lower elevations giving way to buckbrush and moss and ultimately to lichen covered rock at higher elevations.

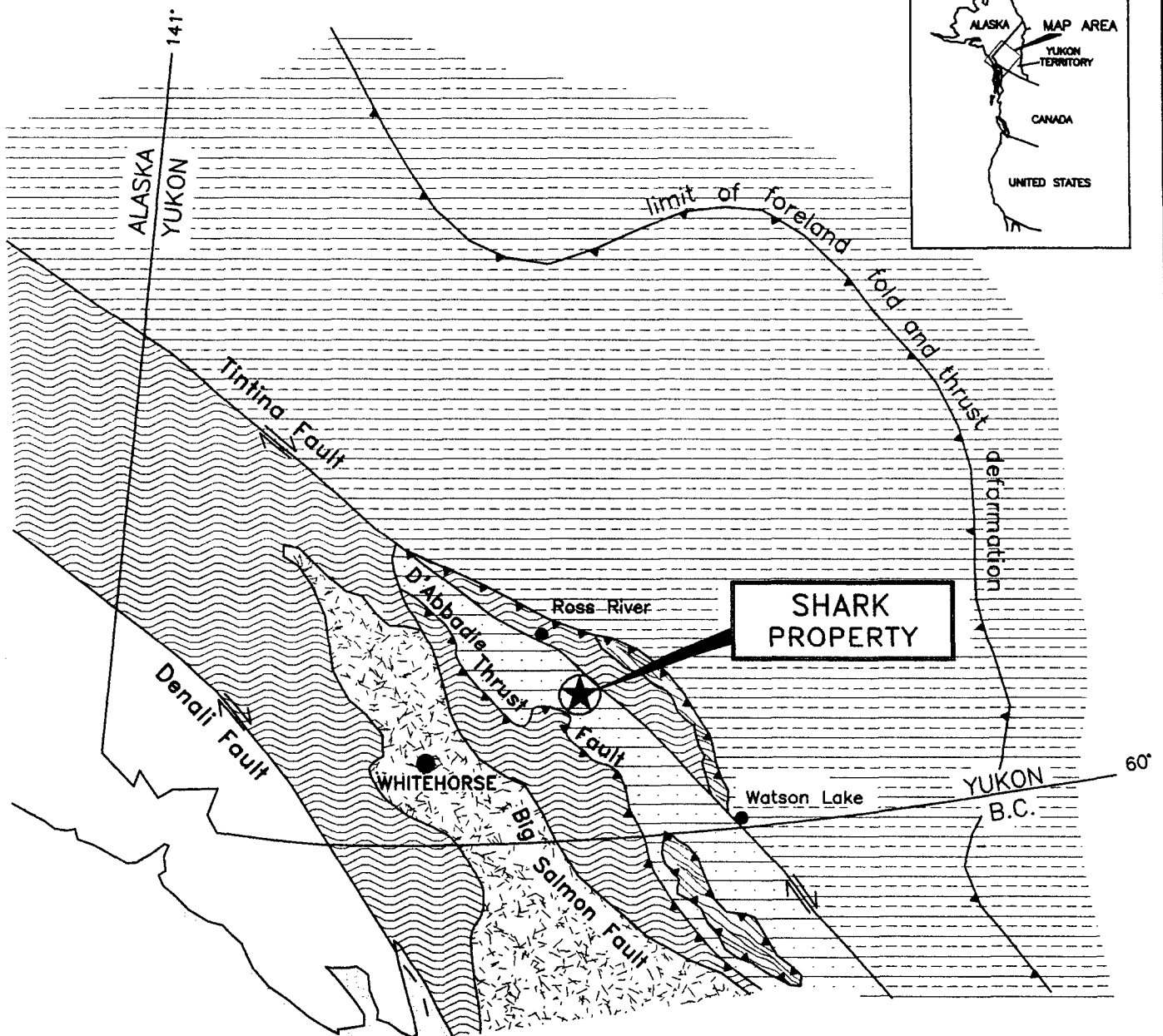
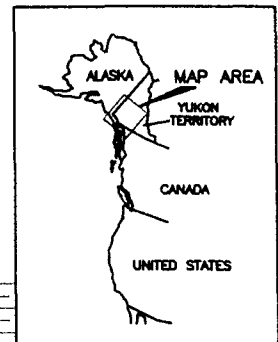
GEOLOGY

Regional Geology

The Shark property is located within the Cassiar Platform, a displaced tectonic element comprised of Paleozoic miogeoclinal clastic and carbonate sedimentary rocks (Figure 3). These strata are overlain and interfingered with Mississippian felsic to mafic metavolcanic rocks which form the linear northwest trending Pelly Mountain volcanic belt (Gibson, et al., 1999) believed to be deposited in a continental rift environment. Roughly coincident with the southwestern edge of the volcanic belt is a 32 km long string of Mississippian syenite intrusions, the largest of which is partially covered by the Shark claim block. This entire package of rocks was faulted and deformed during Late Paleozoic arc-continent collision, and intruded by Mid-Cretaceous plutons of intermediate composition (Tempelman-Kluit, 1981).

The Ketz-Seagull District, in which the Shark property is located, is bounded on the northeast by the Tintina Fault (Figure 4). This regional scale, transcurrent fault extends across Yukon into Alaska and resulted in approximately 420 to 460 km of dextral offset in Early Tertiary times (Mortensen, et al., 2000). This portion of the Cassiar Platform is structurally complex and has been divided into four northeast-directed thrust panels (Abbott, 1986). From northeast to southwest and from structurally lowest to highest, they are: the St. Cyr, Cloutier, Seagull-Porcupine, and McConnell thrust faults. A prominent feature is the nearby Ketz-Seagull Arch, which is described as a broad domal uplift in which strata of the Lower Cloutier thrust panel are exposed through the Seagull-Porcupine thrust. This feature is most likely related to one or more buried Cretaceous intrusions (Abbott, 1986). The Shark property is located just north of the McConnell thrust and immediately southwest of the Ketz-Seagull Arch.

The main lithologies in the Ketz-Seagull District are shown on Figure 4 and are described as follows. The oldest rocks are Lower Cambrian to Mississippian in age and consist dominantly of shale, limestone, dolomite, sandstone, quartzite and phyllite of the Cassiar Platform. The Mississippian metavolcanics (unit Mva) are described as the metamorphic equivalents of "dark clastic rocks, tuffaceous chert and felsic volcanic rocks" (Gordey and Makepeace, 2000). Those rocks are approximately coeval with and in part genetically linked with Mississippian syenite (unit My). These intrusives range from small plugs to 35 km² stocks. They typically consist of resistant, massive, medium to fine grained equigranular syenite (Gordey and Makepeace, 2000). The youngest rocks (units KqC) belong to the Cassiar Plutonic Suite, which ranges between 100 and 110 Ma (Mortensen, 1999). Typically they consist of grey weathering, equigranular, medium to coarse grained quartz monzonite and range from small stocks to batholith sized



- Thrust fault
- Transcurrent fault
- Yukon-Tanana Terrane
- Slide Mountain Terrane
- Stikinia and other Terranes
- Cassiar Platform
- North American Miogeoclinal Strata

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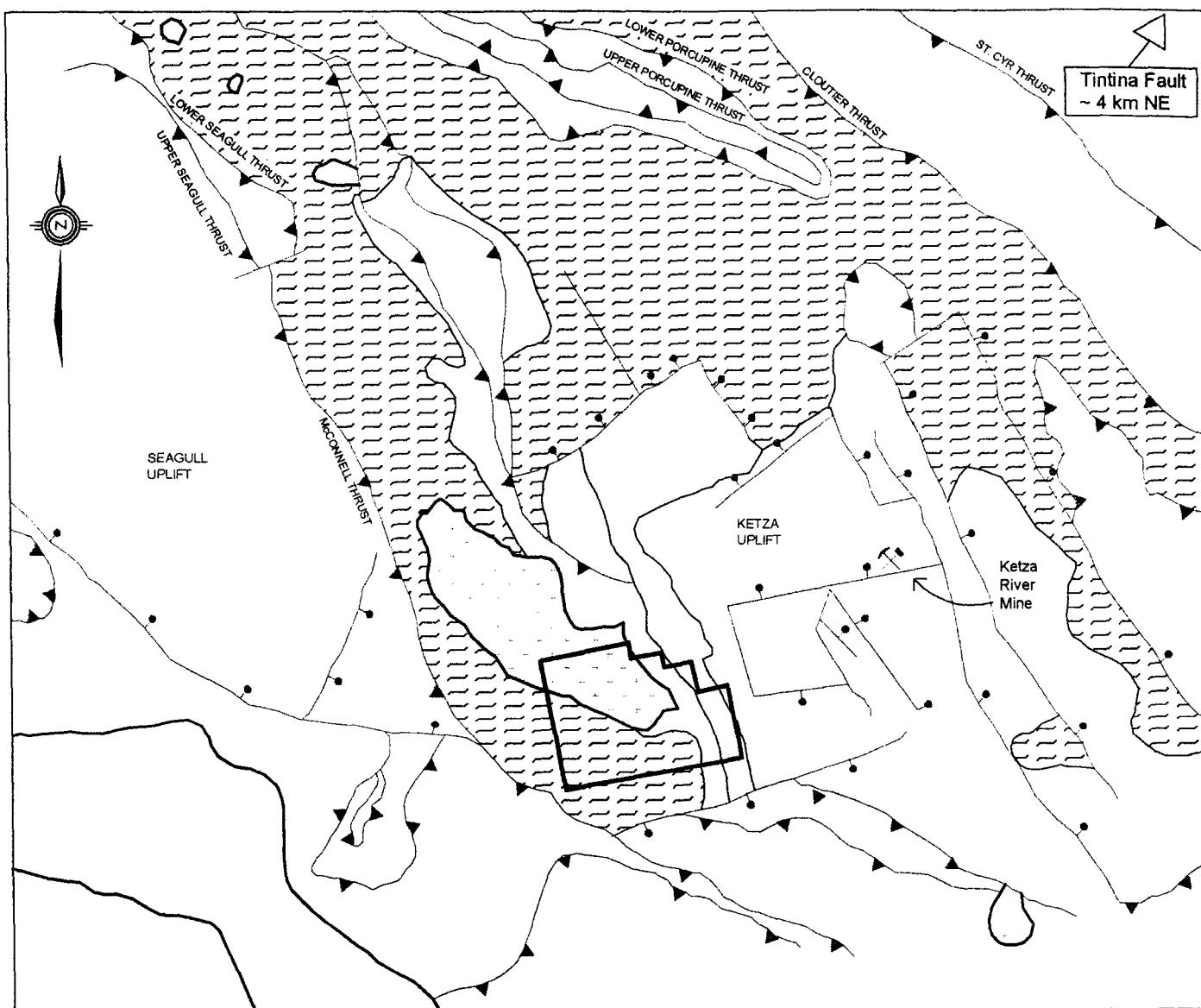
FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

SHARK PROPERTY





Modified after Tempelman-Kluit (1977) and
Gordey and Makepeace (2000)

-  Paleozoic Cassiar Platform sediments
-  Mississippian metavolcanic rocks (Mva)
-  Mississippian syenite (My)
-  Cretaceous intrusion (KqC)
-  normal fault
-  thrust fault
-  Shark property claim boundary

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

SHARK PROPERTY



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DATE: FEBRUARY 2005

bodies. The closest documented intrusion to the Shark property is a stock located 9 km to the southwest.

Property Geology

The Shark property is underlain by three metasedimentary units (uCOs, SDc and uDMs), a metavolcanic unit (Mva) and a syenite stock (My) (Figures 5 and 6). Regionally the metasedimentary rocks are part of a conformable sequence but on the property a steep fault juxtaposes the Cambrian strata against Silurian to Mississippian rocks. Silurian shale, volcanic breccia, sandstone, and dolomite normally occur between units uCOs and SDc. The metavolcanics and syenite are slightly younger and are dated as Mississippian. The following paragraphs describe each of the units, from oldest to youngest.

Unit uCOs is late Cambrian to Ordovician in age and comprises grey to black, lustrous phyllite and minor black shale. The rocks are typically thinly bedded and moderately deformed.

Unit SDc includes thinly to thickly bedded, grey limestone and orange weathering dolomite with minor quartzite. This Silurian to Devonian unit forms the bulk of Guano Ridge.

Unit uDMs consists of thinly laminated, dark grey to black shale.

Unit Mva is a package of predominantly metavolcanic rocks with some interfingered sedimentary lithologies. Metamorphic grades range from lower greenschist to lower amphibolite facies. It includes phyllite, argillite, chert, lapilli tuffs, volcanic breccias, trachytic flows and moderately to well foliated sericite and chlorite-talc altered schist. This unit typically ranges from pale green to grey to maroon, and weathers as platy to blocky talus.

Unit My forms the southeastern half of a 12 km long, 3 km wide syenite stock. It is medium to fine grained, equigranular, and becomes increasingly mafic toward the margins of the intrusion. Colour is variable ranging from light grey to pink to dark green. The rock is massive and weathers resistantly to form prominent cliffs along ridges. Pockets of unit Mva, possibly roof pendants too small to be mapped at a regional scale, are present within this unit. Tension gashes are locally abundant in the syenite and have a high aspect ratio. They range from centimetres to metres in length and are filled with quartz and a variety of accessory minerals. Zircon extracted from unit My has been dated at 362.7 ± 3.6 Ma using U-Pb isotopic methods (Mortensen, 1999).

Units uCOs, SDc and uDMs comprise the eastern part of the Shark property while units My and Mva underlie the remainder. Unit uCOs is separated from units SDc and uDMs by a near vertical, northwest trending fault (Chronic, 1979). A second northwest trending shear zone located about 800 m to the southwest separates the carbonate, clastic, and syenite rocks in the eastern part of the property from the main body of syenite and metavolcanic rocks. Bedding in stratified units across the property strikes northeasterly and dips moderately to the southeast. Skarnification developed in the carbonate rocks is most likely a result of contact metamorphism from the syenite stock, but could be related to later fluid movement along the shear zone and associated minor faults.

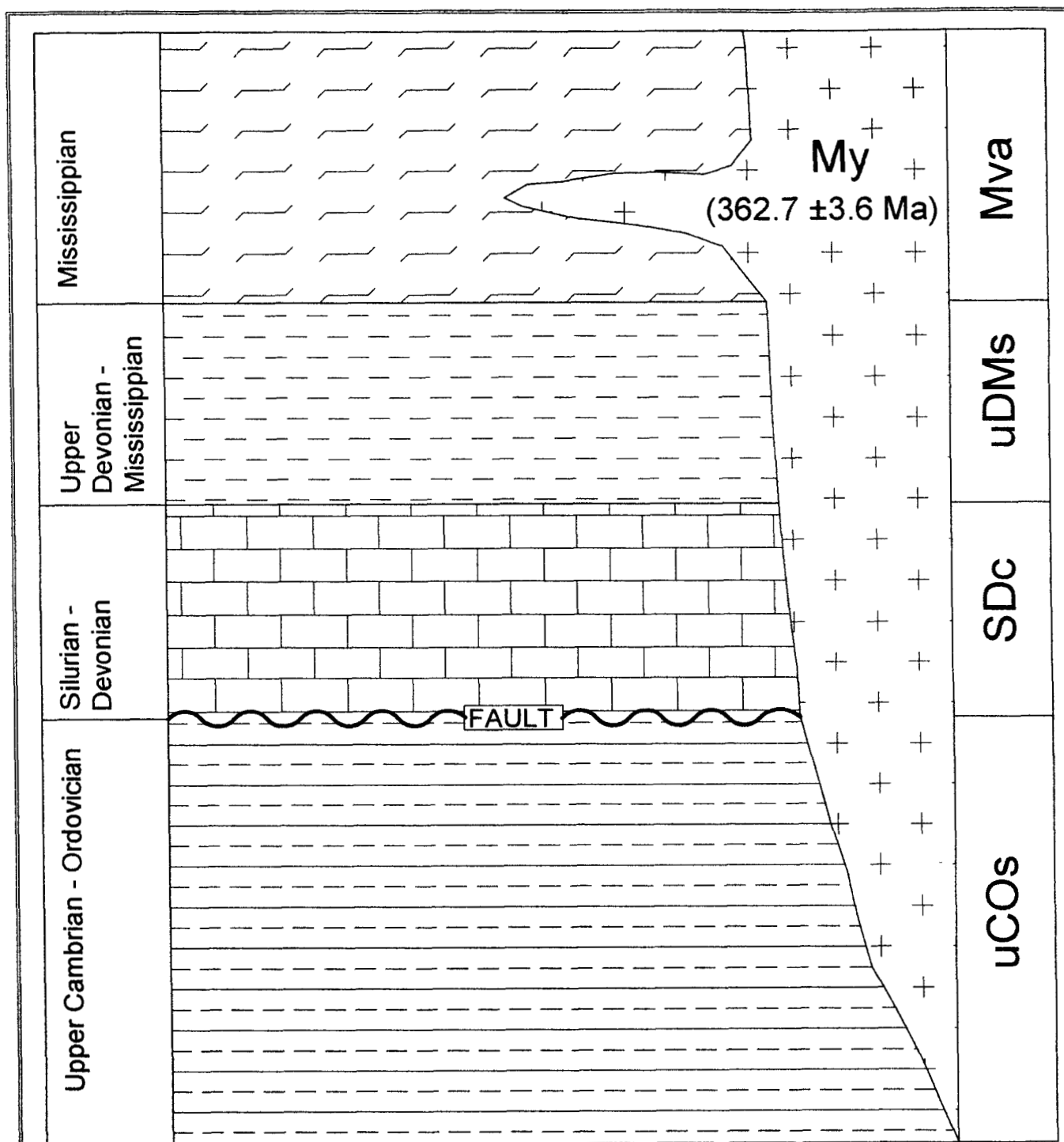


Figure 5. Schematic section of the Paleozoic stratigraphy pertaining to the Shark Property. Beryl occurs primarily in the Mississippian syenite (My).

-  Syenite (My)
-  Metavolcanic rocks (Mva)
-  Shale (uDMs)
-  Carbonate (SDc)
-  Phyllite, shale (uCOs)

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FIGURE 5

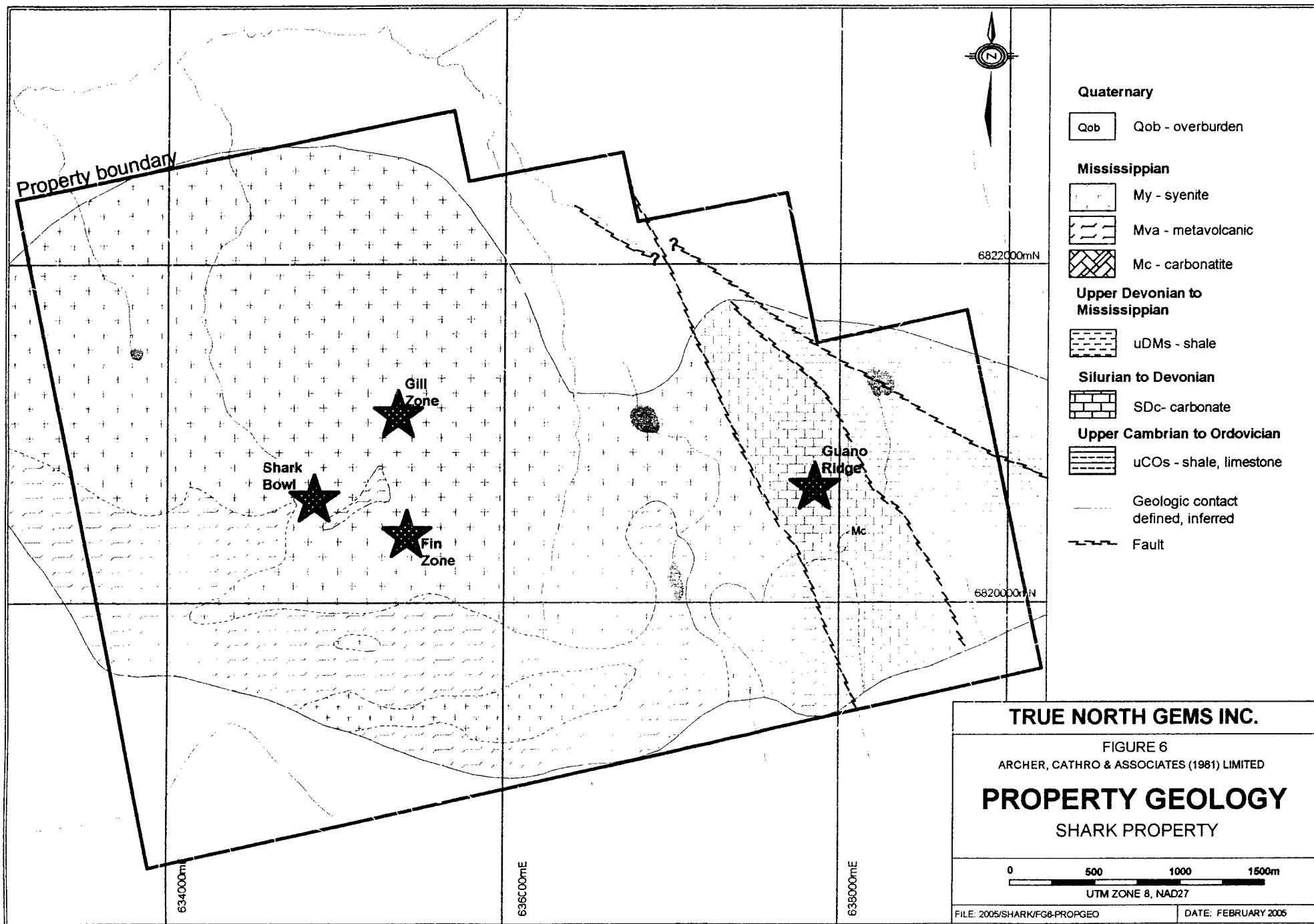
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STRATIGRAPHY

SHARK PROPERTY

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DATE: FEBRUARY 2005



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FIGURE 6

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PROPERTY GEOLOGY

SHARK PROPERTY

Unit Mc is a pale to dark green carbonatite that outcrops near the margin of Unit My and the carbonates comprising Guano Ridge. It is characterized by a recessive weathering matrix containing randomly oriented resistant feldspathoid crystals and possible tourmaline.

Property scale structures are most apparent in the vicinity of Guano Ridge where steeply dipping northwest trending faults are documented cutting the sediments and juxtaposing metavolcanic and sedimentary rocks plus the syenite. Smaller scale structures are associated with calcite and quartz veining that is observed cross cutting stratigraphy and as bedding parallel lenses. Quartz-carbonate veins also occur within the syenite as tension gashes. They comprise a variety of accessory minerals, including the True Blue aquamarine, which will be discussed in another section.

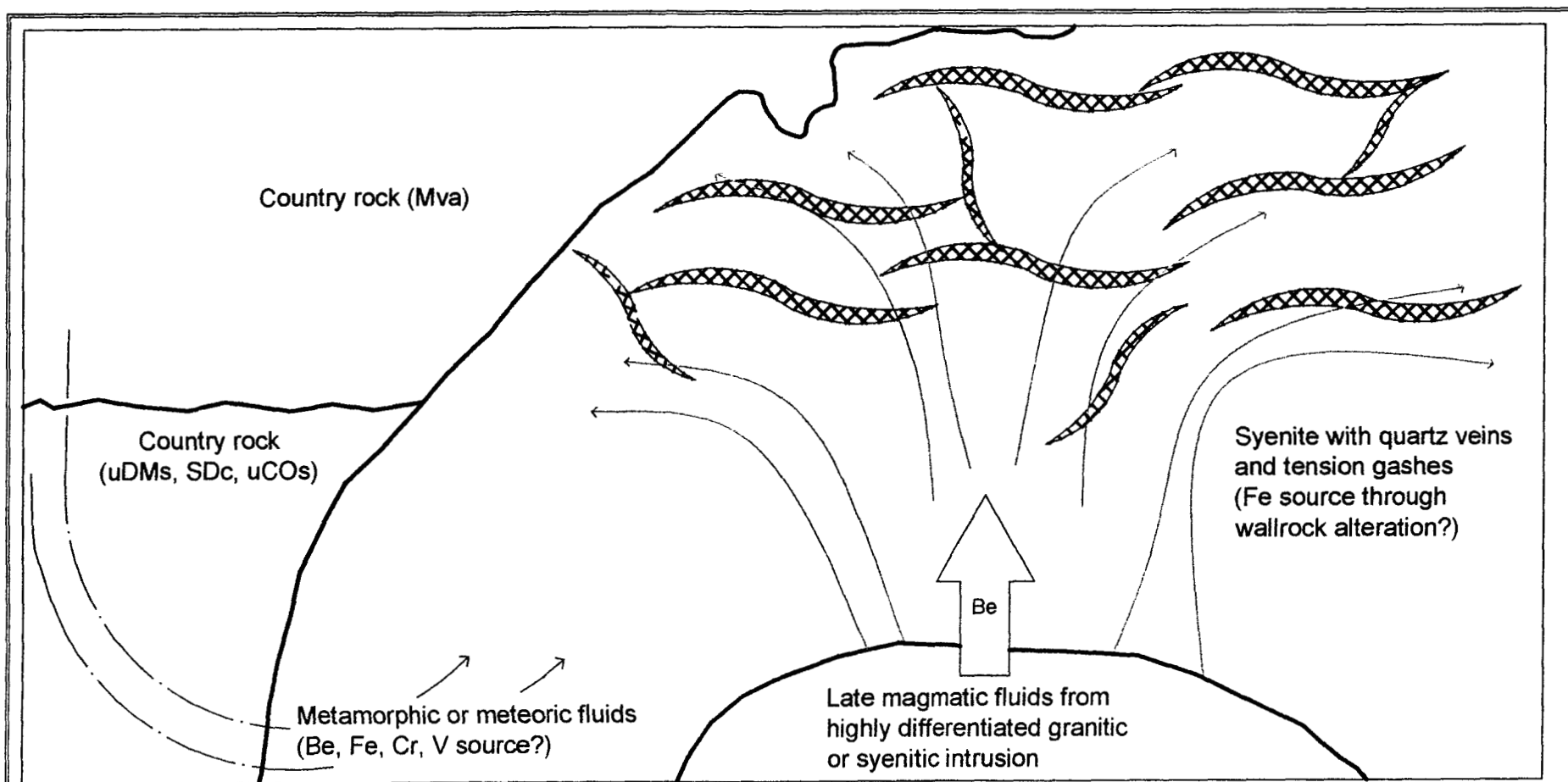
2004 PROGRAM

The 2004 exploration program at the Shark property was conducted by a three to four person crew from July 1 to August 12. Work focussed on two target areas referred to as Guano Ridge and Shark Bowl. The program included geological mapping, prospecting, grid and contour soil sampling plus beryl gemstone extraction. Soil samples were shipped to ALS Chemex in North Vancouver where they were dried and screened to -80 mesh and processed using HF, HNO₃ and HClO₄ followed by an HCl leach and ICP atomic emission spectroscopy analyses for 27 elements. This process is described as near total digestion. Certificates of Analyses are contained in Appendix II. Beryl bearing vein material was shipped to the Tsa De Gliza site where it is currently stored for processing.

Shark Bowl

Figure 7 illustrates a basic model for the formation of blue and green beryl observed at the Shark Bowl. A beryllium rich fluid from an evolved magma interacts with metal rich wallrocks or is mixed with metal bearing meteoric or metamorphic fluids, bringing the chromophore elements and beryllium into contact, thus forming coloured beryl. The origin of the beryllium rich fluid is unknown, however a 2000 by 750 m aeromagnetic high (Gordey and Makepeace, 2000) on the edge of the mineralized region may be associated with a buried Cretaceous age granitic intrusion. The possibility that beryllium was derived from magmatic evolution of the syenite or was introduced by hydrothermal fluids associated with tectonic activity cannot be ruled out. Similarly, the origin of the chromophore in the beryl is uncertain at this time but two probable sources are wallrock alteration of the host syenite and scavenging by hydrothermal cells from the surrounding metasedimentary country rocks.

Beryl mineralization has been identified in two areas within the Shark property. The beryl is opaque to transparent and ranges from pale to dark blue, sometimes pale to medium green and occasionally shows blue-green bicolouration. It usually occurs in tension gashes and veins cutting syenite, but at one locale a pale blue beryl is hosted in a quartz vein within a roof pendant of metavolcanic rock (unit Mva). Vein mineralogy is quite simple, consisting dominantly of clear to white quartz and a combination of accessory minerals including calcite, siderite, tourmaline, allanite, smoky to purple fluorite, pyrite and chalcopyrite. The veins occupy a dense network of orthogonal tension gashes and range in length from 30 cm to tens of metres and



Tension gashes and veins with varying amounts of quartz, calcite, siderite, fluorite, tourmaline, and beryl.



Fluid movement along planes of weakness

Be = Beryllium Fe = Iron Cr = Chromium V = Vanadium

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FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TRUE BLUE BERYL
FORMATION MODEL**

SHARK PROPERTY

FILE: 2005/SHARK/F7

DATE: FEBRUARY 2005

in width from 3 to 20 cm. They have sharp wallrock contacts and display coarse granular crystal growth. Density appears to increase toward the structural top of the syenite body where vein material locally constitutes up to 30% of the rock. Some beryl is thought to have replaced tourmaline, based on the aspect of the crystals and a few specimens that exhibit tourmaline grading into beryl.

Dark blue beryl is the main focus of exploration on the Shark property. The intense colour saturation observed in this gem beryl has prompted its tentative classification as a new variety of aquamarine.

Academic studies conducted on True Blue beryl specimens included electron-microprobe analyses that indicate iron is the main impurity, ranging up to 5.81% which is one of the highest concentrations ever reported in beryl (Groat, pers. comm., 2003). The density ranges from 2.775 to 2.783 g/cm³. The refractive indices measured from uncut stones range between 1.582 and 1.602 and the beryl is strongly dichroic (Smith, 2003). Recent academic studies by Turner, 2004 identified a number of inclusions in the beryl crystals including siderite, calcite, quartz and calcium – Rare Earth Element phase. Of five stones faceted by True North, two have elongated emerald cuts and weigh 0.82 and 0.79 carats, while the remaining stones have round brilliant cuts and weigh less than 0.10 carats each. Refractive indices are currently being determined for the cut stones. A thorough literature review has found reference to several locales with blue beryl including Brazil, Ireland, Madagascar, Pakistan and USA. Most of these references are anecdotal or only briefly describe the blue beryl. References that do contain scientific information indicate that the True Blue beryl has higher iron content and is significantly darker blue (Groat, pers. comm., 2003). When compared to dark blue stones from Brazil and the USA the True Blue sample exhibited significantly darker blue colour saturation (Groat, pers. comm., 2003).

Of the two areas where beryl was identified in 2003, the Shark Bowl was the primary area of interest in 2004 where efforts were made to extract as much blue beryl bearing vein material as possible, both for specimen quality samples and for bulk sample material to be processed through the facility at Tsa De Gliza. Gas powered diamond chainsaws were used for cutting channels in outcrop or talus blocks along vein exposures. Water to cool the saws was provided by three petrol pumps and approximately 800 m of water line.

Beryl bearing veins were extracted from 110 individual sites in two main areas of Shark Bowl termed the South Bench and East Bowl (Figure 8). All material was catalogued by location, rough amount of vein material collected and details of beryl observed pre-and post extraction. The extraction list appears in Appendix III. The majority of the veins containing beryl were from variably sized talus blocks forming distinct trains emanating from the upper portion of the Shark Bowl. Both trains defining the South Bench and East Bowl were traced to insitu beryl bearing veins. Approximately 475 kg of vein material was collected from the South Bench including 54 kg of potential specimen quality samples. Likewise, 313 kg of material was extracted from the East Bowl of which 35 kg was packaged as specimen quality samples.

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FIGURE 8

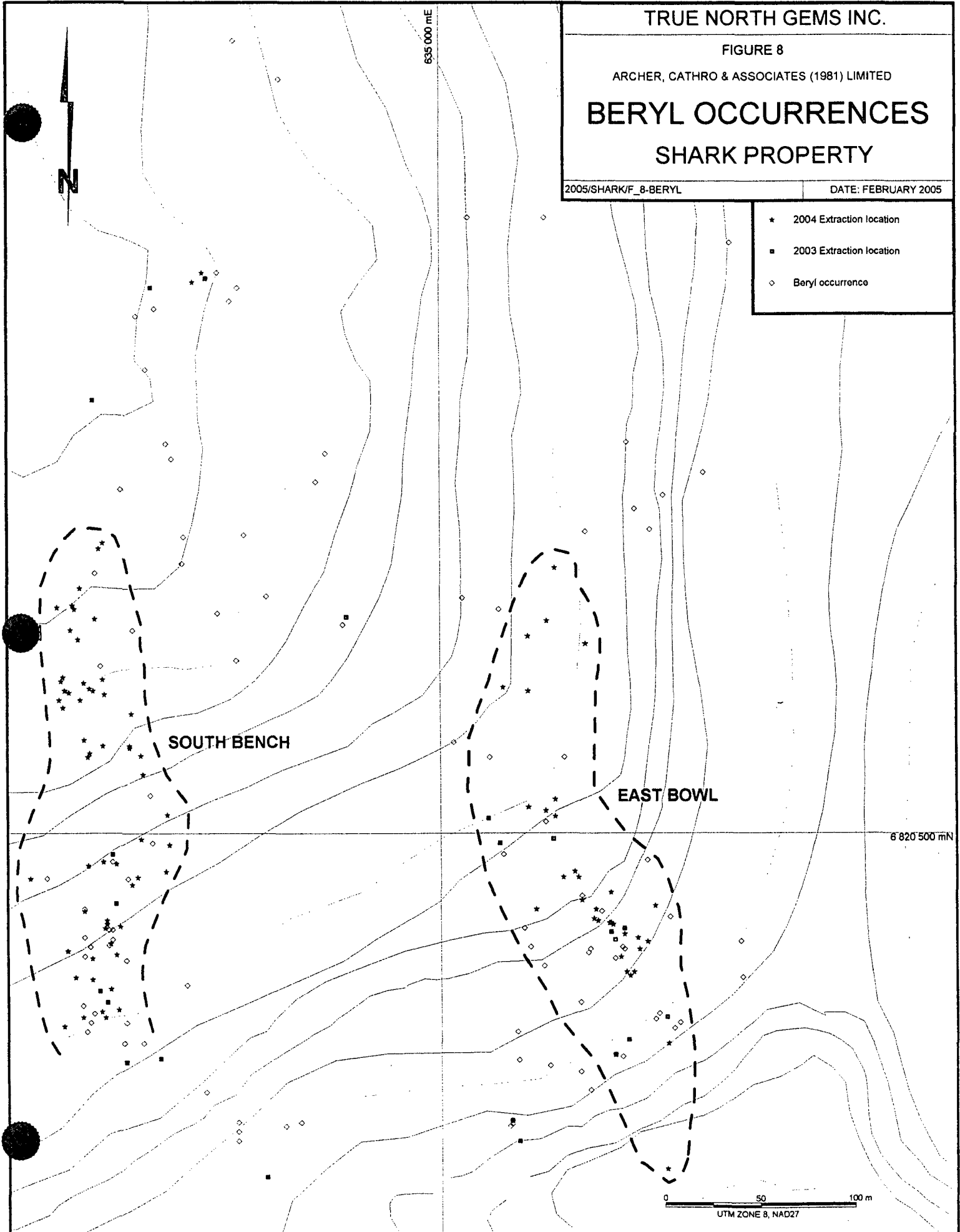
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BERYL OCCURRENCES SHARK PROPERTY

2005/SHARK/F_8-BERYL

DATE: FEBRUARY 2005

- ★ 2004 Extraction location
- 2003 Extraction location
- ◇ Beryl occurrence



All potential specimen quality samples were shipped to True North's Vancouver office while three ore bags containing the extracted vein material from the Shark Bowl are currently at Tsa De Glisza site awaiting processing.

Guano Ridge

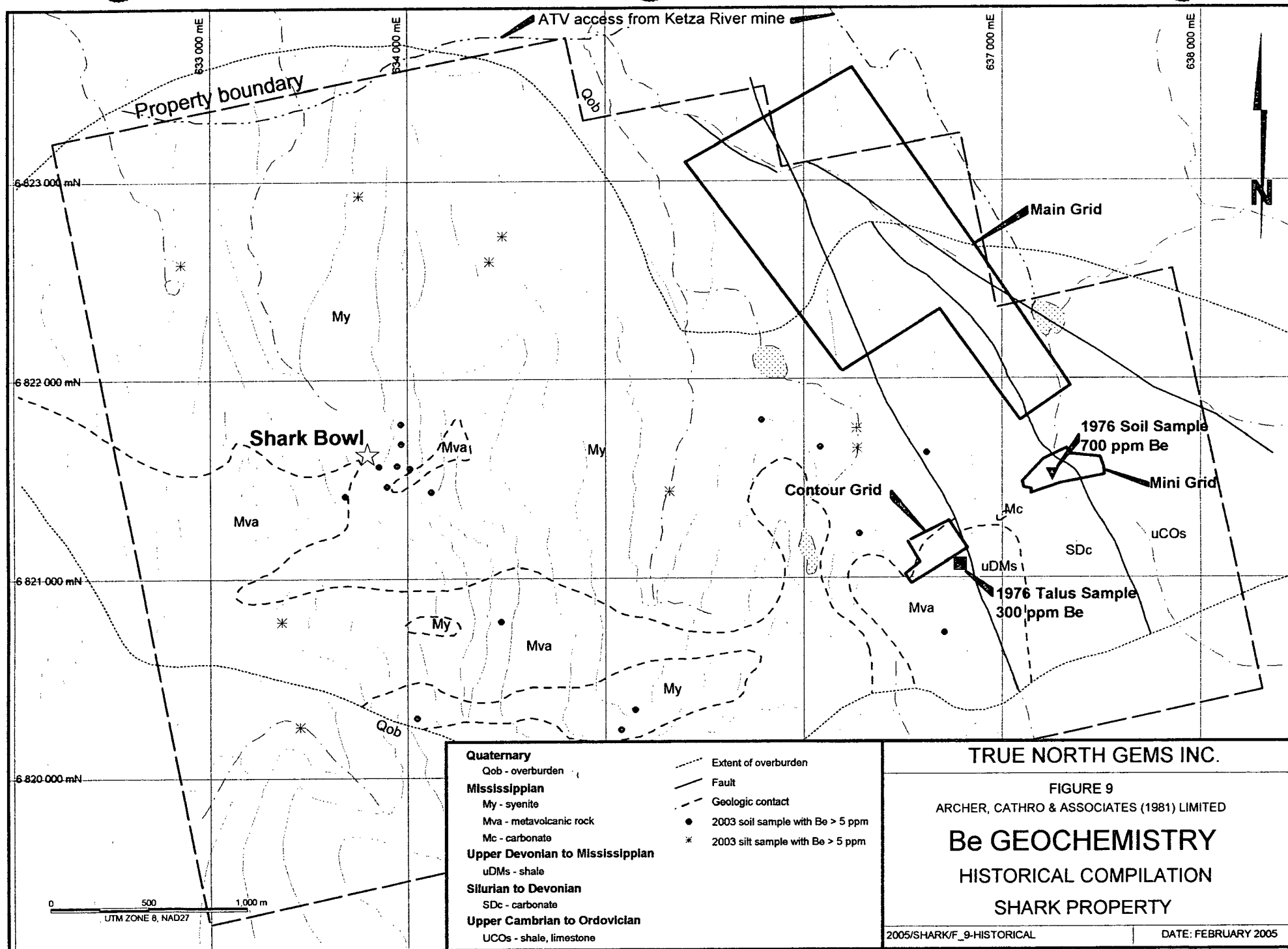
Guano Ridge is located in the eastern part of the claim block where previous exploration focussed on REE skarn mineralization. Rock sampling from this previous program identified beryllium values up to 700 ppm emanating from a sequence of black shales in fault contact with a limestone horizon. A cursory inspection of the area in 2003 identified a potential Colombian style emerald setting near the confluence or triple point junction of the black shale, limestone and syenite intrusion.

The 2004 program implemented grid soil sampling across the suspected triple point junction and in the area where the black shale is in fault contact with the limestone. Detailed prospecting and mapping were also conducted within the syenite in an attempt to identify beryl bearing tension gashes similar to those discovered at Shark Bowl.

Soil samples were collected from three areas on Guano Ridge; the main grid, mini grid and contour grid as illustrated on Figure 9. Sampling was conducted at 50 m intervals on lines spaced 50 to 100 m apart. All samples sites are marked with 0.5 m wooden lath bearing an aluminum tag inscribed with a sample number and/or grid coordinate. The samples were taken from B or C Horizon soil, usually at depths between 15 and 30 cm below surface. Sample locations and geochemical results are illustrated on Figures 10 through 16. The elements beryllium (Be), chromium (Cr) and vanadium were the primary consideration for defining areas of geochemical interest with respect to emerald formation. Similarly, arsenic (As), silver (Ag), lead (Pb) and zinc (Zn) were primary considerations for identifying gold, silver vein and polymetallic VMS targets.

Soil sample results from the main grid outlined a linear northwest trending anomaly of >5 ppm Be (up to 7.8 ppm) with low Cr and V support (up to 43 and 182 ppm, respectively). The vanadium values in other parts of the main grid were as high as 625 ppm. A vanadium value exceeding 1000 ppm was obtained from the mini grid testing an area to the south where a regional scale fault zone is mapped between the shale and limestone. The extremely high Be values reported from the 1976 sampling were not reproduced. The strongest Be response was from the eastern portion of the contour grid where a cluster of Be values >9 ppm to a maximum of 13.8 ppm form an open anomaly measuring 150 by 50 m in size. Chromium and vanadium response was subdued. No detailed follow up prospecting was conducted in this area.

Elements that were strongly elevated from one or more of the grids were arsenic, silver, lead and zinc using the following threshold criteria:





- CC08401 soil sample location
- × CC08398 silt sample location

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FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

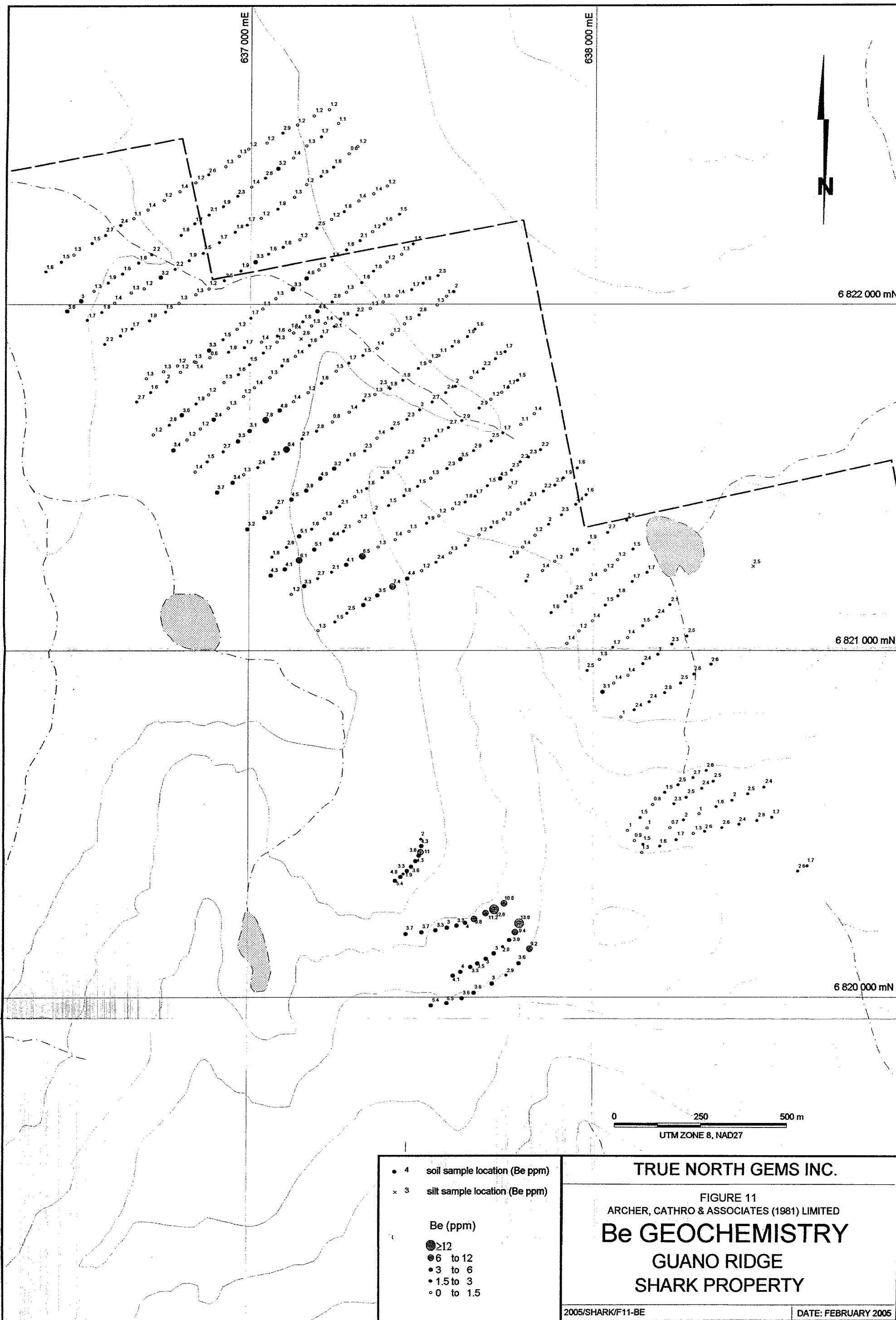
SAMPLE LOCATION

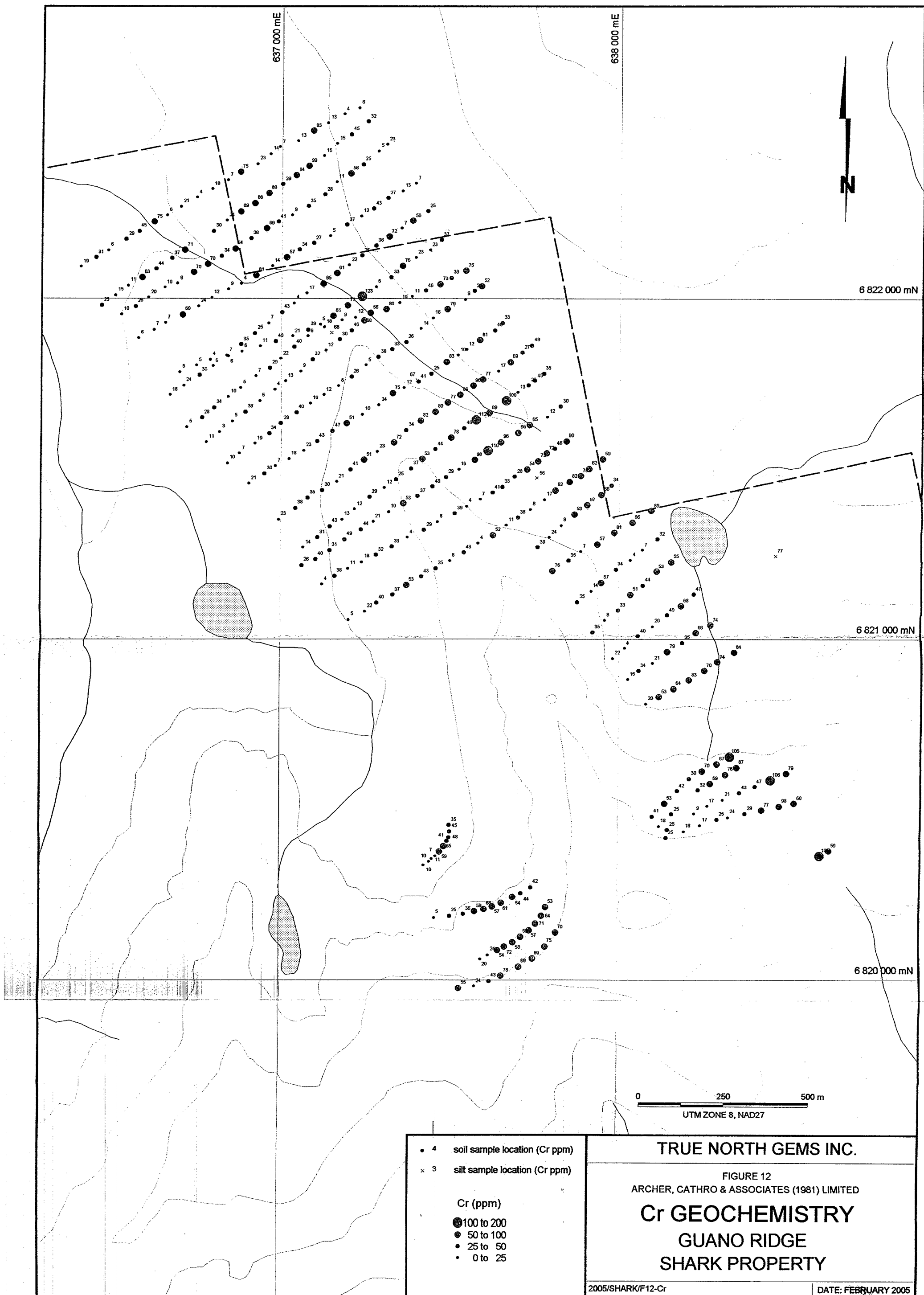
GUANO RIDGE

SHARK PROPERTY

2005/SHARK/F_10-SAMPLE

DATE: FEBRUARY 2005







- 4 soil sample location (V ppm)
 - x 3 silt sample location (V ppm)
- V (ppm)
- ≥800
 - 400 to 800
 - 200 to 400
 - 100 to 200
 - 0 to 100

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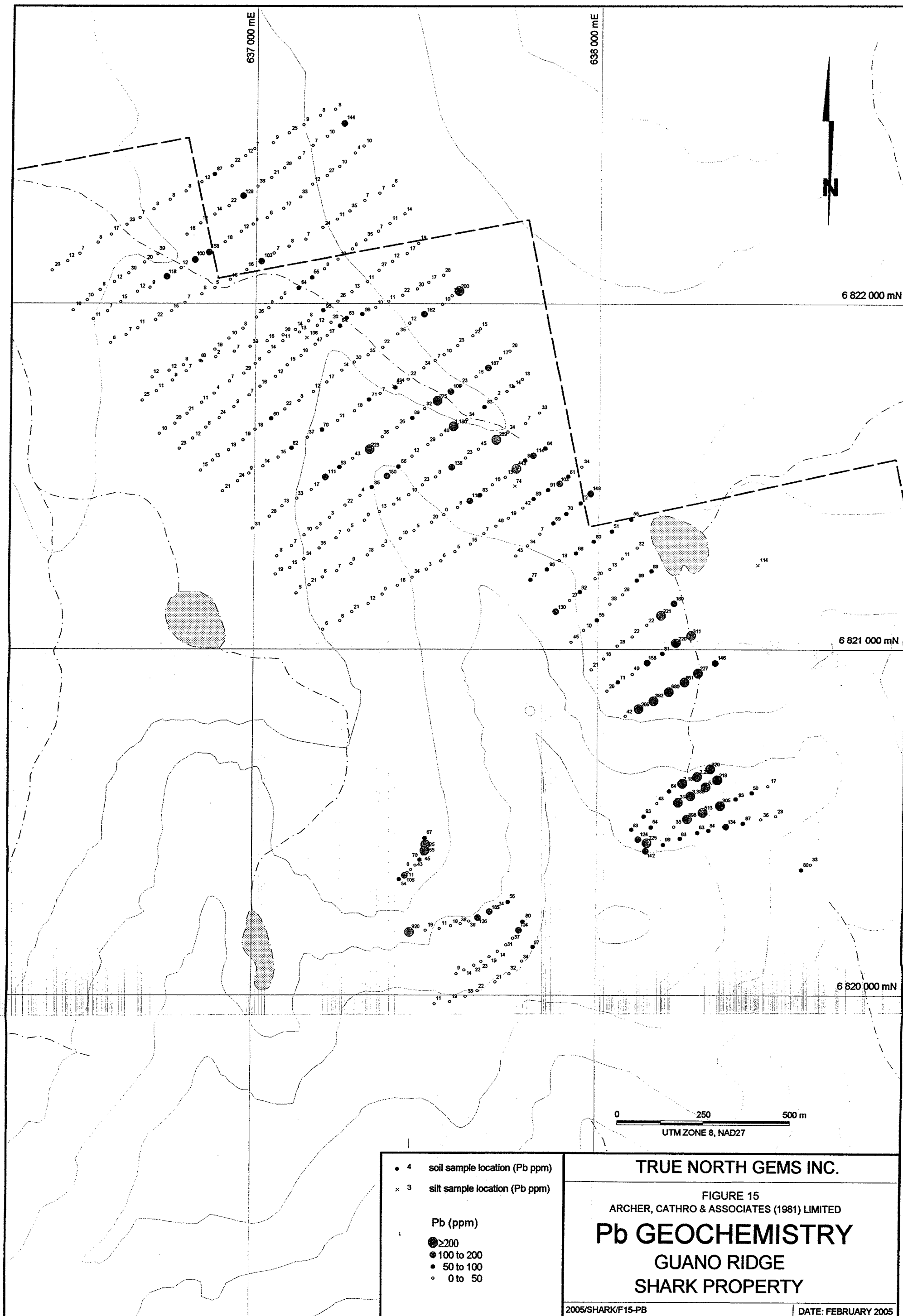
FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

V GEOCHEMISTRY
GUANO RIDGE
SHARK PROPERTY

2005/SHARK/F13-V

DATE: FEBRUARY 2005





- 4 soil sample location (Pb ppm)
- × 3 silt sample location (Pb ppm)

Pb (ppm)

- ≥200
- 100 to 200
- 50 to 100
- 0 to 50

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FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

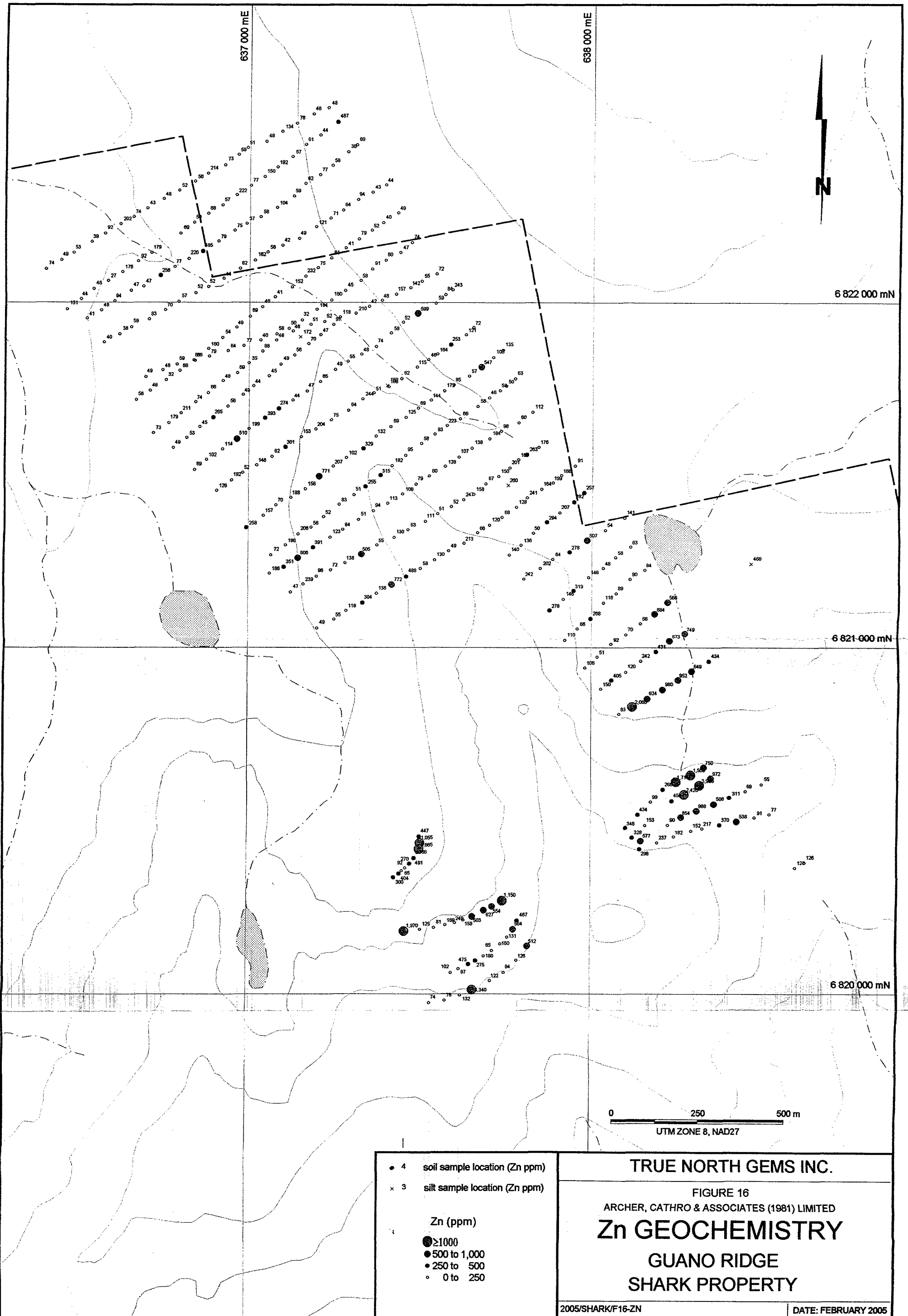
Pb GEOCHEMISTRY

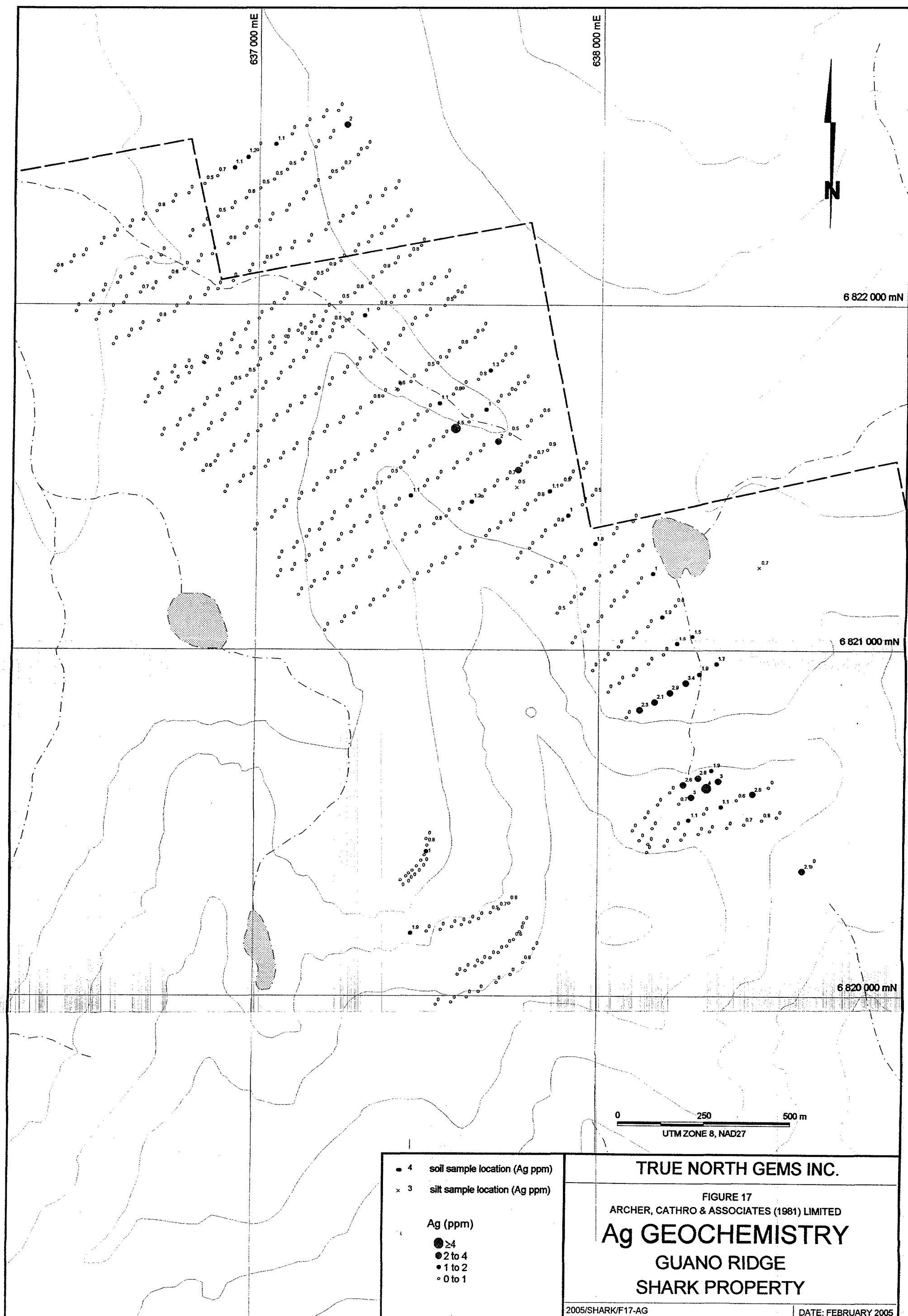
GUANO RIDGE

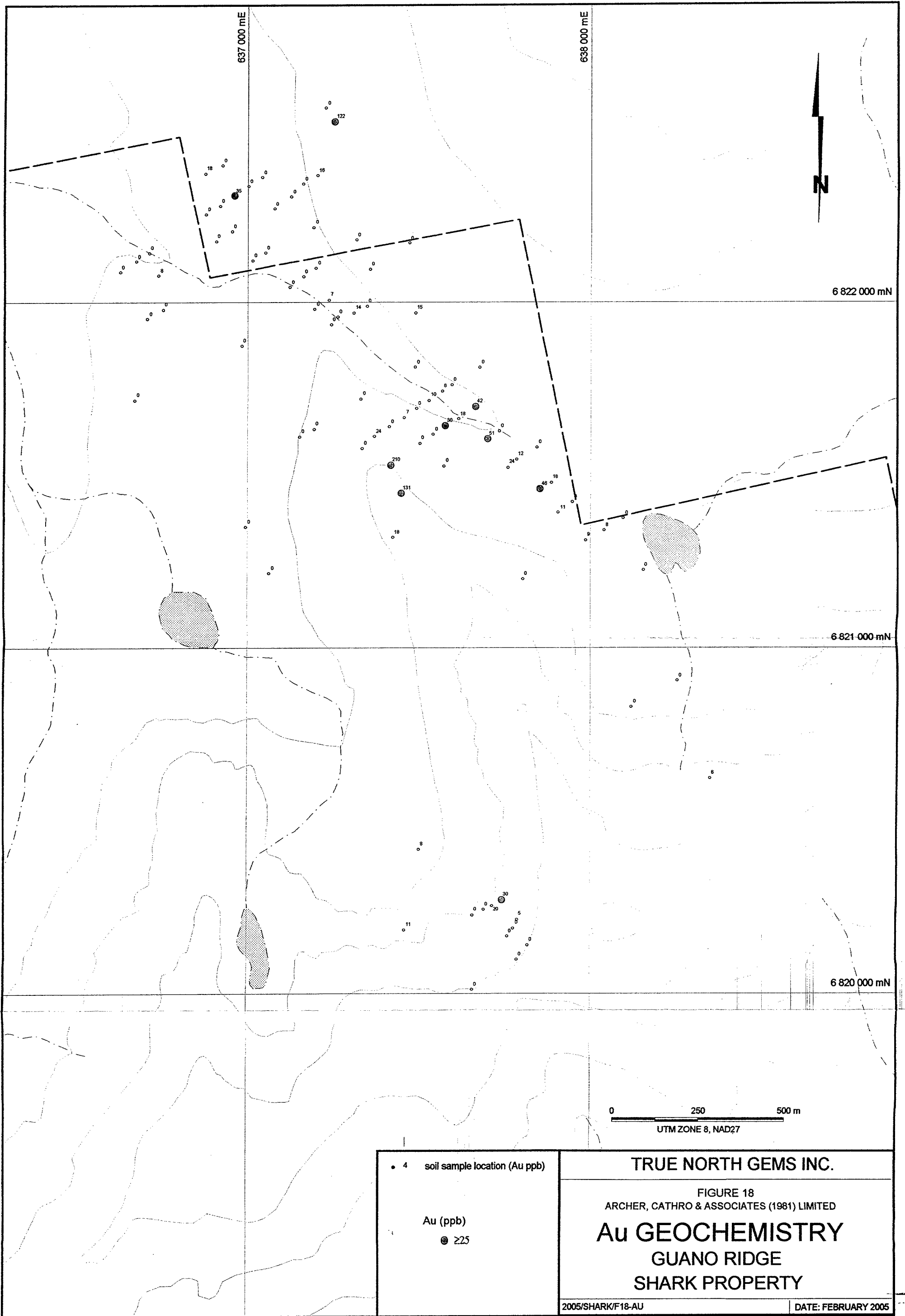
SHARK PROPERTY

2005/SHARK/F15-PB

DATE: FEBRUARY 2005







• 4 soil sample location (Au ppb)

Au (ppb)

● ≥25

TRUE NORTH GEMS INC.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Au GEOCHEMISTRY

GUANO RIDGE

SHARK PROPERTY

2005/SHARK/F18-AU

DATE: FEBRUARY 2005

Anomalous Thresholds

Element	Weak	Moderate	Strong
Arsenic	50 ppm	100 ppm	200 ppm
Lead	50 ppm	100 ppm	200 ppm
Zinc	250 ppm	500 ppm	1000 ppm
Silver	1 ppm	2 ppm	4 ppm

Arsenic response within the main grid forms a 1500 by 150 m northwest trending, linear cluster of weakly to strongly anomalous values to a maximum of 5260 ppm. Lead values are somewhat coincident with the arsenic anomaly in the central portion of the grid forming two, 200 to 400 m long and 25 to 50 m wide northwest trending anomalies. The largest concentration of anomalous lead values on the main grid however, occurs in the southeastern corner where strongly anomalous values up to 681 ppm cover a 200 by 100 m area that is open to the south and east. This area is also moderately anomalous for zinc with sites yielding up to 2060 ppm. Silver response is generally weak throughout the main grid but shows good correlation with both arsenic and lead. The maximum value obtained was 4.5 ppm.

Ninety-five pulps were selected for gold analyses based primarily on elevated arsenic values. Ten samples returned >25 ppb gold and only three were >100 ppb to a maximum of 210 ppb. All anomalous gold values are scattered within the arsenic anomaly in the main grid.

Samples from the central part of the mini grid yielded strongly anomalous and coincident lead-zinc response in a 100 by 100 m area with values up to 5540 ppm and 3900 ppm, respectively. Silver values were consistently elevated between 2 and 4 ppm while arsenic values were subdued. Similar coincident lead-zinc point anomalies were identified within the contour grid however, silver response was low.

DISCUSSION AND RECOMMENDATIONS

Exploration in 2004 was directed primarily toward the extraction of beryl bearing vein material within the Shark Bowl. One hundred ten individual sites were identified in 2004 outlining two distinct trains roughly 200 to 300 m long and 75 m wide. The majority of the occurrences are associated with talus blocks that have weathered from cliffs now defining the headwall of the cirque. The beryl forms individual crystals and aggregates with crystals sizes reaching up to 5 cm in length and 2.5 cm in diameter. Clusters identified during extraction were up to 9 cm in diameter. Some beryl crystals have high aspect ratios which implies possible replacement of tourmaline/allanite by beryl. Most specimens are highly fractured and appear to have suffered considerable damage during movement in talus. If this is true, beryl crystals in bedrock may be less fractured and be capable of producing larger cut stones. The largest faceted gem produced to date from the property is a 0.82 carat dark blue stone. Clarity of beryl in general varies from opaque to transparent. The smaller crystals are often free of inclusions and fractures while the larger crystals tend to be moderately included and fractured.

Most beryl from the property is light to medium blue; however, the more interesting and rarer specimens are dark blue (True Blue), green, or bicoloured. The colour of the True Blue and

other blue beryl is believed to be a result of iron impurities. The chromophore of the green beryl is unknown at this time but, if it is chromium or vanadium, the better quality green stones can be technically classified as emerald. The chromophores in the beryl at the Shark property are derived either from wallrock alteration of the syenite or from hydrothermal scavenging of the metasedimentary country rocks. Beryl crystals with a blue core that grades to a green rim suggests that a significant change in fluid composition or physical state occurred during crystallization. The origin of the beryllium is also uncertain although the most probable source is late magmatic fluids from a highly differentiated intrusion. Petrological, isotopic and fluid inclusion studies are required to define the origin of the beryllium and chromophores to define the time of vein emplacement and to understand the conditions of beryl crystallization. Beryl mineralization appears to be largely controlled by the proximity of the syenite bearing tension gashes to rafts or roofs pendants of sedimentary rocks within the intrusion.

No beryl was discovered in the vicinity of Guano Ridge although several key parameters required in the Columbian Emerald Model were identified including abundant quartz-carbonate vein material within the black shale package in proximity to elevated beryllium soil response. Several large scale faults on the property could act as fluid conduits, however, no areas of albitization were observed and no expected accessory minerals such as parasite or fluorite were identified. The lack of alteration of the black shale suggests that any beryllium or other key elements contained in the sediments were not released. This may be because there are no associated interbedded evaporites or equivalent sequences able to produce brines that would intensively react with the black shale.

Until the extracted beryl bearing vein material from Shark Bowl is processed and evaluated no specific recommendations can be made for further work on the property. The uniqueness of the True Blue aquamarine occurrence is such that future work at some level is warranted, however, it is not known at this time whether it would be conducted purely for small scale collection or an economic inventory.

The Guano Ridge target has only very limited potential for beryl mineralization however, follow up saturation prospecting should be conducted in the vicinity of the contour zone beryllium anomaly in conjunction with any future programs at Shark Bowl. Detailed prospecting of the coincident lead-zinc-silver anomalies is also recommended to determine the nature of any associated mineralization.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



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APPENDIX I
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 1, 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, northern British Columbia and Mexico.
5. I have personally participated in and supervised the fieldwork reported herein.



William A. Wengzynowski, P. Eng.

APPENDIX II
BERYL EXTRACTION LIST

True Blue Extractor List - 2004 Field Season

E1	Extractor Number	UTMs	Easting	0634870	Northing	6820790	Material:	3 bags, 1 envelope
	Description	Several clots of dirty green to light green to medium blue beryl, mostly occurring radially, that are typically fractured and opaque. Liberated fragments are generally 5 x 4mm, though one green-blue crystal measures 20 x 8mm. Host is mafic syenite, and accessories include abundant purple fluorite, orange weathering carbonate and sub metallic siderite. Quartz is glassy, and some feldspar is straddling vein contact.						
E2	Extractor Number	UTMs	Easting	0634877	Northing	6820792	Material:	1 bag
	Description	One small patch of opaque green beryl in quartz vein from an old extractor site (35). Host rock is tan-pink syenite. Cutting test area.						
E3	Extractor Number	UTMs	Easting	0634875	Northing	6820795	Material:	1 bag
	Description	Test cut on tan-pink syenite with quartz veins that contain dark purple fluorite and orange weathering carbonate. No was beryl observed on surface of boulder.						
E4	Extractor Number	UTMs	Easting	0634807	Northing	6820424	Material:	1 bag
	Description	Several small needles of dirty green beryl and several small patches of light green opaque beryl. Vein contact is sharp with mafic syenite, and accessories include siderite, clear and purple fluorite.						
E5	Extractor Number	UTMs	Easting	0634830	Northing	6820407	Material:	1 bag
	Description	2 clusters up to 3 x 1 cm of medium blue to sea green beryl, some of which is semitransparent. Host rock is mafic syenite and vein contact is sharp. Accessories include purple and clear fluorite, siderite and tourmaline. Tourmaline tends to be aligned into vein, while beryl is oriented along the vein.						
E6	Extractor Number	UTMs	Easting	0634821	Northing	6820406	Material:	1 bag
	Description	Clusters of opaque sea blue to medium blue beryl, some areas of blue are verging on dark blue, and some crystals are semitransparent. One cluster is 7 x 6cm with medium blue colour. Host rock is mafic syenite and accessories include siderite and clear fluorite. Some dark chloritized minerals (amphiboles?) cross fairly sharp vein contact.						
E7	Extractor Number	UTMs	Easting	0634801	Northing	6820398	Material:	1 large and 1 small bag
	Description	5 x 5mm patch of opaque light blue beryl on quartz vein trace. Within vein is more beryl, mostly small opaque crystals ranging from green to light blue. Host is mafic syenite, contacts are sharp, and stringers of siderite across vein suggest slow development of tension gash.						

E8	Extractor Number	UTMs	Easting 0634823	Northing 6820403	Material: 1 rock
	Description	Cluster of fine green beryl crystals on quartz vein face. Host rock is mafic syenite and accessories include siderite and clear fluorite.			
E9	Extractor Number	UTMs	Easting 0634811	Northing 6820403	Material: 1 bag
	Description	Sea blue to medium blue opaque beryl filling small vein in mafic syenite. Beryl patches measure up to 2 x 0.6cm. Beryl bearing veins cross cut adjacent orange carbonate veinlets.			
E10	Extractor Number	UTMs	Easting 0634803	Northing 6820438	Material: 1 bag
	Description	Several beryl fans of dominantly sea blue crystals, some verging towards greener hues as well as medium blue. Crystals measure up to 5cm long and 8mm wide and are typically semitransparent and fractured. Largest cluster is 15cm x 10cm. Host rock of exposed quartz vein is mafic syenite.			
E11	Extractor Number	UTMs	Easting 0634829	Northing 6820436	Material: 1 bag
	Description	Showing was two small (~1 x 1mm) patches of opaque green beryl as well as several clots of dark blue to sea blue beryl. Best patch measures 3.5 x 2cm and is an aggregate of deep blue beryl with transparent crystals. Other areas also show decent beryl, and in one case fills a ~1cm wide vein with dark blue beryl for ~5cm. Vein contacts with mafic syenite are sharp and accessories include fluorite, tourmaline, and weathered carbonate.			
E12	Extractor Number	UTMs	Easting 0634816	Northing 6820434	Material: 2 bags
	Description	One light blue patch of beryl on quartz vein trace, more medium blue to green beryl upon extraction. Mafic syenite is the host, and the contact with the quartz vein varies from ragged to sharp. Accessories include abundant purple and clear fluorite, as well as siderite.			
E13	Extractor Number	UTMs	Easting 6348261	Northing 6820442	Material: 1 bag
	Description	Medium blue to dirty green beryl (up to 2.5 cm long) on exposed quartz vein face. Majority of crystals are semitransparent though a few are transparent. Host rock is mafic syenite.			
E14	Extractor Number	UTMs	Easting 0634823	Northing 6820450	Material: 1 large and 1 small bag
	Description	Dark blue and green beryl on exposed vein, most of which are semitransparent. One particular crystal is dark blue and measures 1 x 2cm. Host rock is mafic syenite, and quartz vein contact is sharp. Accessory minerals include fluorite and carbonate.			
E15	Extractor Number	UTMs	Easting 0634824	Northing 6820452	Material: 1 rock
	Description	2 x 1cm patch of dark blue to dirty green beryl in quartz vein trace. One slab was removed however no more beryl was observed on cut surface. The vein comprises of quartz aligned perpendicular to sharp contact with mafic syenite, as well as minor carbonate and fluorite.			

E16	Extractor Number	UTMs	Easting 0634812	Northing 6820459	Material: 1 rock, 1 large and 1 small bag
Description Many smaller crystals of beryl ranging from light green to light blue to medium blue, some of which are transparent. Host is mafic syenite, and material extracted includes quartz vein trace and face. Vein contact is irregular and accessory minerals include fluorite and siderite.					
E17	Extractor Number	UTMs	Easting 0634824	Northing 6820454	Material: 1 bag
Description 2 nice transparent crystals: dark blue = 5 x 4mm, sea blue = 15 x 5mm, but fractures are present in top half. Areas on beryl with green hues are butted up against tourmaline. The beryl occurs on a quartz vein face against pinky tan syenite and accessories include purple siderite and abundant tourmaline crystals up to 2cm long. This specimen suggests tourmaline crystallized before beryl, and siderite after beryl.					
E18	Extractor Number	UTMs	Easting 0634816	Northing 6820423	Material: 2 bags
Description Many clusters of fine beryl crystals, usually opaque to semitransparent and sea blue to sea green. Beryl from both exposed face as well as extracted quartz vein trace and although beryl is abundant, it is mostly finer needles of lesser quality. Vein contact is sharp with mafic syenite and accessory minerals include purple fluorite and siderite.					
E19	Extractor Number	UTMs	Easting 0634816	Northing 6820423	Material: 1 rock
Description 3 x 1.2 cm cluster of dark green to dark blue to medium blue beryl. Some nice crystals up to 7 x 2mm and near transparent in places. No more observed beryl after cutting. Host rock is mafic syenite and contacts are fairly sharp, however beryl is butted up against feldspars in some cases. Vein orientation varies, and fluorite is seen as an accessory.					
E20	Extractor Number	UTMs	Easting 0634816	Northing 6820423	Material: 1 large and 1 small bag
Description Blue to green beryl is present on exposed quartz vein, and more beryl occurs beneath in other cross cutting veins. Some crystals are semitransparent, and some liberated during extraction. Host is mafic syenite, and vein accessories include brown weathering carbonate and clear fluorite.					
E21	Extractor Number	UTMs	Easting 0634837	Northing 6820473	Material: 2 rocks
Description Sea blue to dark blue beryl clot (2.5 x 1cm) with some fairly transparent areas that extend into vein. Contact with mafic syenite is sharp, and metallic siderite and fluorite are seen as accessories.					
E22	Extractor Number	UTMs	Easting 0634831	Northing 6820451	Material: 1 bag
Description Small patch of blue beryl on quartz vein trace and cutting exposed more, dominantly green beryl. Quartz vein orientation is irregular, and intersection with other subsurface veins met near area of beryl mineralization. One of the intersecting veinlets comprised almost entirely of dark purple fluorite. Host rock is mafic syenite and accessories include fluorite and siderite.					
E23	Extractor Number	UTMs	Easting 0634855	Northing 6820480	Material: 1 rock
Description 13 x 4 mm light blue beryl crystal, most of which is opaque. Quartz vein contact with mafic syenite is variable, and orange weathering carbonate is the only observed accessory.					

E24	Extractor Number	UTMs	Easting 0634840	Northing 6820477	Material: 3 rocks
Description Several clusters up to 4 x 2.5cm of light green to medium blue mostly opaque beryl that consists of crystals up to a few cm's long. Contact with darker tan syenite is uneven to sharp, and accessories include tourmaline, purple and clear fluorite, and siderite.					
E25	Extractor Number	UTMs	Easting 0634814	Northing 6820483	Material: 1 bag
Description 2 clusters (4x2cm and 3x3cm) of pale to dark blue beryl crystals that are opaque to semitransparent and measure up to 1cm x 3mm, though most are finer needles. Either vuggy space or weathered out material has left some crystals suspended. Contact is generally sharp, though in areas near beryl it is less so. Vein accessories include fluorite and siderite. Host rock is mafic syenite with a greenish hue, and also contains disseminated pyrite.					
E26	Extractor Number	UTMs	Easting 0634837	Northing 6820473	Material: 2 rocks
Description 2 beryl crystals on exposed face. One crystals measures 1.5 x 0.5cm and is dirty blue and opaque while the other measures 2 x 0.6cm and is dirty green. Quartz vein face still has fair amount of quartz left and has siderite as an accessory. Adjacent vein on same mafic syenite boulder contained fluorite and was extracted as well, but no beryl was observed on cut surface.					
E27	Extractor Number	UTMs	Easting 0634822	Northing 6820485	Material: 3 rocks
Description 1 x 1cm patch of opaque medium blue to sea green beryl on quartz vein trace. Host is light to dark grey syenite with major chloritization and vein contacts are generally sharp. Accessory minerals include clear fluorite and minor weathered carbonate.					
E28	Extractor Number	UTMs	Easting 0634783	Northing 6820476	Material: 3 rocks and 1 small bag
Description Quartz vein face with several fans of medium blue to sea blue to green beryl, measuring up to 3 x 1cm. Some semitransparent crystals of medium blue colour, with maximum crystal size of 1cm x 3mm. Vein contact with tan syenite is sharp and siderite is seen as an accessory mineral.					
E29	Extractor Number	UTMs	Easting 0634829	Northing 6820484	Material: 2 rocks
Description Dark blue to sea blue beryl fan (~4 x 2cm) as well as individual crystals on quartz vein trace. Minor beryl observed on cut sides. Vein contact is sharp with mafic syenite and vein orientation is irregular. Accessories include purple fluorite, siderite, tourmaline, as well as an unidentified black metallic mineral.					
E30	Extractor Number	UTMs	Easting 0634826	Northing 6820418	Material: 1 rock
Description 2 small patches of sea blue beryl along quartz vein trace, one of which fills a 1cm vein. Accessory minerals include siderite and chalcopyrite, and the host rock is tan syenite.					
E31	Extractor Number	UTMs	Easting 0634857	Northing 6820494	Material: 1 bag
Description Several clusters of mostly green beryl, up to 4 x 2cm with semitransparent crystals that measure up to 1cm x 3mm. Accessories include siderite, tourmaline, fluorite and host rock is pinky syenite.					

E32	Extractor Number	UTMs	Easting 0634856	Northing 6820510	Material: 1 bag
	Description	Dirty green beryl crystals up to 1.75cm x 3mm with nice habit on exposed quartz vein face. Most crystals are semitransparent, though some are verging on transparent. Host rock is tan syenite and accessories include clear fluorite and siderite.			
E33	Extractor Number	UTMs	Easting 0634856	Northing 6820510	Material: 1 rock
	Description	Cluster of medium blue crystals that show good habit and measure up to 6 x 15mm. The cluster contains mostly fractured crystals and measures 8.5 x 5cm by ~2cm deep. Quartz vein face cuts mafic syenite and has minor siderite as an accessory mineral.			
E34	Extractor Number	UTMs	Easting 0634856	Northing 6820510	Material: 1 rock
	Description	1 green beryl crystal measuring 1.5cm x 3mm on quartz vein face and trace in tan syenite. Accessories include siderite, and fluorite (clear and purple) and some of the quartz and carbonate appear to have grown during tension gash extension.			
E35	Extractor Number	UTMs	Easting 0634842	Northing 6820497	Material: 2 rocks and 1 bag
	Description	Beryl ranges from dark blue to light green, and from opaque to transparent. Substantial amounts of beryl was exposed within sets of anastomosing veins after incisions with saw. Host is grayish syenite and accessories in quartz veins include siderite and fluorite.			
E36	Extractor Number	UTMs	Easting 0634836	Northing 6820546	Material: 1 rock
	Description	1 patch of medium blue beryl, and 1 green beryl crystal that measures 2 x 12mm. Host rock is mafic syenite and minor carbonate is seen as an accessory.			
E37	Extractor Number	UTMs	Easting 0634836	Northing 6820545	Material: 2 bags and 2 rocks
	Description	Quartz vein trace with minor beryl on surface and abundant crystals after opening. Colours range from sea green to dark blue and some crystals are transparent. Of interest is one dark blue (7 x 3mm) transparent stone and several nicely formed green beryl crystals that appear to extend into the vein. Quartz vein trace cuts mafic syenite with fluorite and siderite as accessories.			
E38	Extractor Number	UTMs	Easting 0634842	Northing 6820541	Material: 1 rock
	Description	1 x 0.5cm aggregate of sea blue to medium blue crystals with nice crystal form. Quartz vein trace is hosted in altered tan syenite with siderite as an accessory.			
E39	Extractor Number	UTMs	Easting 0634843	Northing 6820531	Material: 1 rock and 1 small bag
	Description	Medium blue to green clots of opaque beryl that measure up to 7 x 3cm. Accessories on quartz vein face include siderite, tourmaline, and fluorite. Host rock is decaying tan syenite.			

E40	Extractor Number	UTMs	Easting 0634814	Northing 6820540	Material: 1 rock
Description 1.5 x 0.5cm dark blue beryl filling vein width along quartz vein trace. Many other quartz vein traces so a large sample was taken. Host rocks is mafic syenite and orange carbonate was seen as an accessory.					
E41	Extractor Number	UTMs	Easting 0634822	Northing 6820546	Material: 1 bag
Description 2 clusters up to 4 X 4.5cm and 1 crystal (3cm x 3mm) that are sea blue and semitransparent. Host rock of quartz vein face is tan syenite and vein accessories include tourmaline and carbonate.					
E42	Extractor Number	UTMs	Easting 0634815	Northing 6820542	Material: 1 bag
Description Several clusters (~1.5 x 1.5cm) of beryl ranging from medium blue to dark and light green. A few nice 1cm long crystals are present and may continue into quartz vein. Host rock is mafic syenite and siderite is seen as an accessory.					
E43	Extractor Number	UTMs	Easting 0634812	Northing 6820549	Material: 1 bag
Description Quartz vein face hosts several patches of light to medium blue beryl. Patches are in the cm x cm size and clear fluorite is seen as an accessory phase. Host is mafic syenite which has greyish colour and also has disseminated sulfides.					
E44	Extractor Number	UTMs	Easting 0634837	Northing 6820563	Material: 1 rock
Description 10 x 2cm clot of dark blue beryl, opaque to transparent. Accessory minerals include siderite and clear fluorite and quartz vein face cuts mafic syenite.					
E45	Extractor Number	UTMs	Easting 0634804	Northing 6820574	Material: 4 rocks
Description Several clots of sea blue to light green beryl, mostly opaque but some semitransparent crystals appear to continue into quartz vein. Quartz vein face and trace occur in mafic syenite and accessories include fluorite and siderite.					
E46	Extractor Number	UTMs	Easting 0634817	Northing 6820575	Material: 2 rocks
Description Several radiating aggregates (~1.5 x 1.5cm) of beryl crystals ranging from medium blue to green with several nicely formed crystals. Quartz vein face cuts mafic syenite and accessories include fluorite and siderite.					
E47	Extractor Number	UTMs	Easting 0634815	Northing 6820576	Material: 1 rock
Description 2 patches (~3 x 3mm) of opaque medium blue beryl on quartz vein face. Host is mafic syenite and accessory minerals in vein include tourmaline, purple and clear fluorite, siderite and minor pyrite.					

E48	Extractor Number	UTMs	Easting 0634810	Northing 6820570	Material: 1 rock
	Description	6.5 x 2.5 cm clot of sea blue beryl crystals up to several cm's long and ~1cm wide, some of which are semitransparent. Host rock is tan syenite and siderite is seen as an accessory			
E49	Extractor Number	UTMs	Easting 0634802	Northing 6820575	Material: 3 rocks
	Description	9 x 8cm clot of beryl crystals up to 3cm long and 0.5cm wide. Colours range from sea blue to green and several crystals display nice crystal form. Host rock is mafic syenite and fluorite is seen as an accessory mineral.			
E50	Extractor Number	UTMs	Easting 0634823	Northing 6820573	Material: 1 rock
	Description	2 x 1cm clot of medium blue to sea green opaque beryl in quartz vein face and trace. Accessories include tourmaline and siderite and host rock is mafic syenite.			
E51	Extractor Number	UTMs	Easting 0634812	Northing 6820579	Material: 2 rocks
	Description	Small area of semitransparent sea green to sea blue beryl on quartz vein face. Host rock is tan syenite and accessory minerals in vein include tourmaline, clear fluorite and siderite.			
E52	Extractor Number	UTMs	Easting 0634800	Northing 6820580	Material: 1 rock
	Description	1 x 1.5cm clot of medium blue beryl, which seems to extend into quartz vein face. Accessory minerals include clear fluorite and carbonate and host rock is mafic syenite.			
E53	Extractor Number	UTMs	Easting 0634801	Northing 6820582	Material: 1 bag
	Description	Many clots (up to 4 x 4cm) of medium to dark blue beryl, some with green rims. Siderite is seen as an accessory, and the host rock is tan syenite.			
E54	Extractor Number	UTMs	Easting 0634809	Northing 6820602	Material: 1 bag and 1 individual rock
	Description	Radiating cluster (4 x 3cm) of mostly opaque medium blue to dirty green beryl. Accessories include fluorite and siderite and the host rock is altered mafic syenite.			
E55	Extractor Number	UTMs	Easting 0634801	Northing 6820566	Material: 2 rocks
	Description	Several patches up to 2 x 3cm of opaque sea green beryl in quartz vein face that cuts tan syenite. Accessories include tourmaline, siderite and fluorite.			

E56	Extractor Number	UTMs	Easting 0634822	Northing 6820581	Material: 2 rocks
Description 6 x 4cm cluster of medium to dark blue crystals, up to 2x1cm, some of which are semitransparent. Host rock is light grey syenite and accessories include siderite, fluorite, and tourmaline.					
E57	Extractor Number	UTMs	Easting 0634799	Northing 6820570	Material: 2 rocks
Description 2 patches of opaque green beryl, ~ .4 x 1cm with fluorite, siderite, tourmaline and chalcopyrite as accessory minerals. Host rock is light grey syenite with common chlorite alteration.					
E58	Extractor Number	UTMs	Easting 0634805	Northing 6820607	Material: 1 rock
Description 5 x 5mm clot of opaque sea blue beryl on quartz vein trace. Host is tan syenite and veins have siderite as accessories.					
E59	Extractor Number	UTMs	Easting 0634818	Northing 6820613	Material: 1 rock
Description 1 small patch of medium to dirty blue beryl needles, hoping for more below surface but none observed. Host rock is altered tan syenite and accessories include tourmaline, fluorite, pyrite and siderite.					
E60	Extractor Number	UTMs	Easting 0634798	Northing 6820619	Material: 1 rock
Description Several nice semitransparent crystals of green to sea blue beryl up to 1.8 x 0.75cm. Quartz vein trace has siderite and fluorite as accessories and is hosted in altered grey-green syenite					
E61	Extractor Number	UTMs	Easting 0634807	Northing 6820618	Material: 1 rock
Description 1 radiating cluster of small medium blue beryl that measures 2 x 2cm. Beryl occurs on quartz vein face with fluorite and siderite and cuts mafic syenite. Tested 2 other veins on boulder but no more beryl was observed.					
E62	Extractor Number	UTMs	Easting 0634806	Northing 6820620	Material: 1 rock
Description 4 x 4cm clot of medium blue to dark blue beryl. Host is mafic syenite and fluorite is seen as an accessory.					
E63	Extractor Number	UTMs	Easting 0634810	Northing 6820629	Material: 2 rocks
Description 2 patches of beryl, up to 2.5 x 1.5cm, that range in colour from dark blue to sea blue. Host rock is mafic syenite and accessory minerals include minor tourmaline and abundant orange weathering carbonate.					

E64	Extractor Number	UTMs	Eastings	6634822	Northing	6820653	Material:	1 rock
	Description	Abundant small green beryl crystals on quartz vein face and trace. Siderite and abundant tourmaline crystals are seen as accessories and host rock is altered mafic syenite.						
E65	Extractor Number	UTMs	Eastings	6634822	Northing	6820653	Material:	2 rocks
	Description	1 clot (1 x 1cm) of medium blue to dark green beryl. Host is mafic syenite and accessories include siderite and tourmaline. Some beryl still remains in boulder but difficult to extract more material.						
E66	Extractor Number	UTMs	Eastings	6634822	Northing	6820653	Material:	1 rock
	Description	Medium to dark blue beryl crystals up to 1 x 0.5cm, some of good quality. Host is tan syenite and accessories include siderite and fluorite						
E67	Extractor Number	UTMs	Eastings	6634820	Northing	6820650	Material:	1 rock
	Description	2 clots of light blue beryl with cross sections up to 7mm. Host is tan syenite and abundant siderite pitting was observed in the quartz vein.						
E68	Extractor Number	UTMs	Eastings	6635104	Northing	6820439	Material:	3 rocks
	Description	1.5 x 0.5cm patch of mostly opaque dark blue beryl on quartz vein face. Quartz vein trace present as well with fluorite and carbonate pitting. Vein cuts mafic syenite.						
E69	Extractor Number	UTMs	Eastings	6635094	Northing	6820435	Material:	2 rocks
	Description	2 x 2cm clot of medium blue beryl with nicely formed crystals up to 2 x 4cm. Accessories include siderite and fluorite and the host rock is tan syenite.						
E70	Extractor Number	UTMs	Eastings	6635103	Northing	6820445	Material:	1 rock
	Description	4 x 3cm patch of dark blue beryl. Crystals show nice colour and clarity but do not seem to extend deep into vein. Host rock is mafic syenite and accessories include tourmaline, fluorite and siderite.						
E71	Extractor Number	UTMs	Eastings	6635108	Northing	6820443	Material:	1 rock
	Description	Several crystals up to 2 x 0.4cm of sea blue beryl, a few of which continue into quartz vein. Host is tan syenite and siderite is seen as an accessory.						

E72	Extractor Number	UTMs	Easting 0635112	Northing 6820462	Material: 1 rock
Description		Many small clots (up to 1 x 1cm) of green beryl on quartz vein face, no more beryl observed within boulder after cutting. Host is mafic syenite and accessories include fluorite, siderite and chalcopyrite.			

E73	Extractor Number	UTMs	Easting 0635088	Northing 6820453	Material: 1 rock and 1 small bag
Description		Thick quartz vein face with many individual green to sea blue beryl crystals up to a few cm's long. Host is tan syenite and accessories include siderite and tourmaline.			

E74	Extractor Number	UTMs	Easting 0635090	Northing 6820452	Material: 1 bag
Description		Green to sea blue beryl crystals up to 7 x 4mm, some semitransparent. Host is tan syenite and accessories include tourmaline and siderite.			

E75	Extractor Number	UTMs	Easting 0635099	Northing 6820425	Material: 3 rocks
Description		Green to sea blue beryl in quartz vein trace. Many small patches but most are of lower quality beryl. The vein hosting the beryl continued deeper into rock after extraction, however the colour and quality of the stones still in place are lower. Accessories in vein include fluorite and siderite and the host rock is mafic syenite.			

E76	Extractor Number	UTMs	Easting 0635101	Northing 6820427	Material: 1 rock
Description		Several patches (~1.5 x 1.5cm) of sea blue to green beryl in quartz vein traces. Siderite is seen as an accessory and the host rock is tan syenite.			

E77	Extractor Number	UTMs	Easting 0635089	Northing 6820453	Material: 1 rock
Description		3 x 1cm clot of dark blue semitransparent beryl on quartz vein face. Host is tan syenite and siderite is seen as an accessory.			

E78	Extractor Number	UTMs	Easting 0635096	Northing 6820447	Material: 3 rocks
Description		Small patch of sea blue beryl on quartz vein trace, however more beryl was observed inside upon extraction. Host is mafic syenite and accessories include fluorite and siderite.			

E79	Extractor Number	UTMs	Easting 0635097	Northing 6820427	Material: 2 rocks and 1 small bag
Description		Cluster of opaque to semitransparent sea blue to green beryl crystals up to a few cm's in length. Host rock is tan syenite and accessories include fluorite and siderite.			

E80	Extractor Number	UTMs	Easting 0635082	Northing 6820454	Material: 1 rock
Description		Quartz vein trace with several cm sized green beryl crystals. Also present are several small euhedral quartz crystals. Host rock is tan syenite and accessories include tourmaline and siderite.			
E81	Extractor Number	UTMs	Easting 0635074	Northing 6820465	Material: 1 rock
Description		Quartz vein face with 4 x 1cm fractured sea green beryl crystal. Host is tan syenite and accessories include siderite and fluorite.			
E82	Extractor Number	UTMs	Easting 0635072	Northing 6820477	Material: 1 rock
Description		Green to medium blue crystals up to 1cm long on quartz vein face, most of which are opaque. Host rock is mafic syenite and accessories include tourmaline, fluorite and siderite.			
E83	Extractor Number	UTMs	Easting 0635080	Northing 6820455	Material: 1 rock
Description		Nice cluster of sea green to sea blue crystals. Clot is 4 x 1cm and individual crystals measure up to 1 x 0.5cm on quartz vein trace. No more beryl was observed within boulder after cutting. Host is pinky syenite and accessories include siderite and fluorite.			
E84	Extractor Number	UTMs	Easting 0635081	Northing 6820460	Material: 2 rocks
Description		1 x 1cm clot of medium blue opaque beryl in mafic syenite. Accessories include fluorite and siderite.			
E85	Extractor Number	UTMs	Easting 0635089	Northing 6820469	Material: 1 rock
Description		2 clots of sea green to sea blue beryl on quartz vein traces. Clots are 1 - 2cm long and fill vein widths up to 5mm while individual crystals are typically on the order of a few mm's in length. Host is tan syenite and accessories include purple fluorite, siderite and tourmaline fans up to 4cm long.			
E86	Extractor Number	UTMs	Easting 0635064	Northing 6820477	Material: 2 rocks
Description		Medium to dark blue beryl on quartz vein trace in mafic syenite. Beryl patch measures 1 x 0.5cm and accessories include fluorite, siderite and tourmaline.			
E87	Extractor Number	UTMs	Easting 0635070	Northing 6820480	Material: 1 rock
Description		2 patches up to 1 x 0.5cm of medium to dark blue beryl that is semitransparent to opaque and fills vein width. Host is mafic syenite and there are no apparent accessories.			

E88	Extractor Number	UTMs	Easting 0635060	Northing 6820518	Material: 3 rocks
Description		1 x 1cm patch of medium blue opaque beryl on quartz vein trace in altered mafic syenite. Accessory minerals include fluorite and siderite.			

E89	Extractor Number	UTMs	Easting 0635060	Northing 6820509	Material: 1 rock
Description		Quartz vein face with medium blue beryl crystal (1 x 0.5cm). Host is pinky syenite and accessories include tourmaline and siderite.			

E90	Extractor Number	UTMs	Easting 0635055	Northing 6820512	Material: 1 rock
Description		2 clots of green to medium blue, opaque to semitransparent beryl on quartz vein face from old extraction site. Host is pinky syenite and accessories include purple metallic siderite and fluorite.			

E91	Extractor Number	UTMs	Easting 0635050	Northing 6820460	Material: 1 rock
Description		4 x 0.7cm medium to dark blue beryl crystal that is transparent to semitransparent and appears to extend into quartz vein. Host rock is tan syenite and accessories include siderite and tourmaline.			

E92	Extractor Number	UTMs	Easting 0635119	Northing 6820389	Material: 1 rock
Description		2 x 1 cm patch of opaque green beryl on quartz vein face. Host is mafic syenite and siderite is seen as an accessory phase.			

E93	Extractor Number	UTMs	Easting 0635091	Northing 6820383	Material: 3 rocks
Description		Dark blue to sea blue beryl in outcropping mafic syenite. Fluorite seen as an accessory mineral.			

E94	Extractor Number	UTMs	Easting 0635033	Northing 6820577	Material: 4 rocks
Description		Tan syenite talus with 5 - 8 mm quartz-siderite veinlets. Open face contains small cluster of turquoise beryl crystals. Sample consists of 4 cuts from 4 blocks within 30m of one another.			

E95	Extractor Number	UTMs	Easting 0635056	Northing 6820612	Material:
Description		Medium blue beryl with 2.5 cm cross section in glassy quartz vein with calcite as an accessory. Host rock is mafic syenite with tension gashes up to 1m long, some of which contained minor purple fluorite. No additional beryl was seen in vein after extraction.			

E96 Extractor Number UTM Easting 0635076 Northing 6820600 Material:

Description This extractor is the twin to E95, located approximately 25m upslope.

E97 Extractor Number UTM Easting 0635060 Northing 6820640 Material:

Description Several turquoise beryl crystals on quartz vein trace. Host is tan syenite with quartz-siderite veinlets approximately 4 - 6mm in width.

E98 Extractor Number UTM Easting 0635118 Northing 6820322 Material:

Description Dark blue beryl cluster (3cm diameter) on quartz vein face with tan-pink syenite as host.

E99 Extractor Number UTM Easting 0635118 Northing 6820322 Material:

Description Dark to medium to turquoise blue beryl in quartz-carbonate veinlets within mafic syenite. Beryl is spotty and veins are anastomosing and irregular.

E100 Extractor Number UTM Easting 0635118 Northing 6820322 Material:

Description Glassy quartz veinlets (1-2cm wide) with patchy blue to green beryl masses, no cross sections observed. Host rock is mafic syenite.

E101 Extractor Number UTM Easting 0635118 Northing 6820322 Material:

Description Clear quartz vein cutting tan to pale green intermediate syenite. Veinlet exhibits syntaxial growth with abundant green beryl throughout.

E102 Extractor Number UTM Easting 0635118 Northing 6820322 Material:

Description Semi-massive blue to green beryl in glassy quartz vein (2cm) containing minor fluorite (clear) and calcite clots. Several nice full crystals liberated during extraction.

E103 Extractor Number UTM Easting 0635118 Northing 6820322 Material:

Description White and clear quartz vein on exposed face with medium to dark blue beryl crystals (up to 2mm cross section). Host rock is mafic syenite.

E104	Extractor Number	UTMs	Easting 0635118	Northing 6820322	Material:
Description		White to glassy quartz carbonate vein (2cm wide) in mafic syenite. Nice medium to dark blue beryl crystals exposed at base of old extraction site from 2003.			

E105	Extractor Number	UTMs	Easting 0635118	Northing 6820322	Material:
Description		White-glassy quartz vein (8 - 12mm) with no accessories. Nice medium to dark blue beryl crystal. Host is tan-pink syenite.			

E106	Extractor Number	UTMs	Easting 0635118	Northing 6820322	Material:
Description		White-glassy quartz veinlet (8mm wide) in tan syenite with one cluster (~1cm x 1cm) of turquoise beryl with cross sections up to 5mm.			

E107	Extractor Number	UTMs	Easting 0635118	Northing 6820322	Material:
Description		Boulder of tan syenite with remnant white quartz vein face and 2.5 cm cluster of dark blue beryl.			

E108	Extractor Number	UTMs	Easting 0635046	Northing 6820514	Material:
Description		Tan-pink syenite with 1cm white quartz veinlet (6mm - 10mm wide) containing medium blue unfractured beryl crystals with cross sections up to 3mm.			

E109	Extractor Number	UTMs	Easting 0635046	Northing 6820575	Material:
Description		Intermediate syenite with remnant quartz vein face and abundant tourmaline and open space once occupied by fluorite (?). Several blue-green beryl crystals on vein face with cross sections up to 7mm.			

E110	Extractor Number	UTMs	Easting 0635046	Northing 6820604	Material:
Description		Mafic syenite with 8 - 10mm white quartz veinlet and abundant fine blue to green beryl on exposed portions of vein.			

APPENDIX III
CERTIFICATES OF ANALYSIS

**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

: EP

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Finalized Date: 18-NOV-2004

Account: EMP

Page: 1

CERTIFICATE VA04079158

Project: EP-GUANO

P.O. No.:

This report is for 216 Pulp samples submitted to our lab in Vancouver, BC, Canada on 10-NOV-2004.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHERROB CARNE
VANCOUVER OFFICEDOUG EATON
BILL WENGZYNOWSKI**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: EP
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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Project: EP-GUANO



Page: 2 - A

To # Pages: 3 (A)

Finalized Date: 18-NOV-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04079158

Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm 0.005
CC08210		0.210
CC08212		<0.005
CC08213		<0.005
CC08214		0.030
CC08215		0.018
CC08216		0.042
CC08221		<0.005
CC08230		0.131
CC08234		<0.005
CC08237		0.051
CC08238		<0.005
CC08248		0.018
CC08257		0.024
CC08258		0.012
CC08260		<0.005
CC08277		0.046
CC08278		0.018
CC08285		0.011
CC08286		<0.005
CC08288		<0.005
CC08292		0.009
CC08293		0.008
CC08294		<0.005
CC08308		<0.005
CC08324		<0.005
CC08327		<0.005
CC08352		0.006
CC08378		<0.005
CC08386		<0.005
CC08387		<0.005
CC08390		<0.005
CC08397		0.007
CC08398		0.032
CC08399		0.008
CC08401		0.005
CC08402		<0.005
CC08403		<0.005
CC08411		0.030
CC08412		0.020
CC08413		<0.005



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Page: 3 - A

Total Pages: 3 (A)

Finalized Date: 18-NOV-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04079158

Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm 0.005
CC08414		<0.005
CC08420		0.011
CC08423		0.008



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Page: 1
18-NOV-2004
Account: EMP

CERTIFICATE VA04079157

Project: EP-GUANO

P.O. No.:

This report is for 200 Pulp samples submitted to our lab in Vancouver, BC, Canada on 10-NOV-2004.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
VANCOUVER OFFICE

DOUG EATON
BILL WENGZYNOWSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: EP
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
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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

Total Pages: 3 (A)

Finalized Date: 18-NOV-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04079157

Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm 0.005
CC08012		0.018
CC08013		<0.005
CC08020		<0.005
CC08025		<0.005
CC08026		<0.005
CC08027		<0.005
CC08031		<0.005
CC08032		<0.005
CC08033		0.035
CC08034		<0.005
CC08035		<0.005
CC08040		0.122
CC08046		0.008
CC08050		<0.005
CC08051		<0.005
CC08054		<0.005
CC08055		<0.005
CC08056		<0.005
CC08057		0.016
CC08064		<0.005
CC08065		<0.005
CC08071		<0.005
CC08072		<0.005
CC08075		<0.005
CC08081		<0.005
CC08092		<0.005
CC08093		<0.005
CC08094		<0.005
CC08097		<0.005
CC08113		<0.005
CC08114		0.007
CC08117		<0.005
CC08120		<0.005
CC08127		<0.005
CC08133		<0.005
CC08134		0.014
CC08135		<0.005
CC08157		0.015
CC08167		<0.005
CC08168		<0.005

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Project: EP-GUANO

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Total Pages: 3 (A)

Finalized Date: 18-NOV-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04079157

Method Analyte Units LOR	Au-AA23 Au ppm 0.005
Sample Description	
CC08171	<0.005
CC08175	<0.005
CC08181	<0.005
CC08189	<0.005
CC08190	0.024
CC08191	<0.005
CC08192	0.007
CC08193	<0.005
CC08194	0.010
CC08195	0.006
CC08196	<0.005
CC08198	<0.005



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Page: 1
: 9-AUG-2004
Account: EMP

CERTIFICATE VA04047159

Project: EP-GUANO

P.O. No.:

This report is for 216 Soil samples submitted to our lab in Vancouver, BC, Canada on 21-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHER

ROB CARNE
VANCOUVER OFFICE

DOUG EATON
BILL WENGZYNOWSKI

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	27 element four acid ICP-AES	ICP-AES

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

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Signature:



ALS Chemex

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Project: EP-GUANO

Page: 2 - A
Total Pages: 7 (A - B)
Finalized Date: 9-AUG-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08201		0.24	<0.5	8.06	24	810	1.6	<2	2.18	<0.5	7	14	20	2.87	2.02	0.87
CC08202		0.36	<0.5	6.54	8	1120	2.6	<2	1.67	0.9	6	31	30	2.49	1.80	1.16
CC08203		0.32	<0.5	6.33	10	1190	5.1	<2	1.72	<0.5	6	43	19	2.94	1.48	2.98
CC08204		0.26	<0.5	7.66	6	920	1.6	<2	2.00	<0.5	6	13	17	2.17	2.17	0.73
CC08205		0.18	<0.5	7.34	12	830	1.3	<2	1.92	<0.5	6	12	17	2.05	2.09	0.71
CC08206		0.26	<0.5	6.36	10	1160	2.1	<2	1.88	<0.5	5	29	14	2.27	1.73	1.57
CC08207		0.18	<0.5	7.01	<5	710	1.1	<2	2.04	<0.5	6	12	14	2.23	1.78	0.82
CC08208		0.16	0.7	6.44	26	1170	1.6	<2	1.95	2.5	6	25	23	2.67	1.75	1.36
CC08209		0.34	0.5	6.10	28	1450	1.6	<2	1.80	1.3	8	37	20	2.83	1.66	1.46
CC08210		0.46	<0.5	4.89	84	870	1.7	21	3.73	<0.5	31	53	69	5.54	1.03	5.53
CC08211		0.54	<0.5	5.00	47	880	2.2	6	5.98	<0.5	14	44	37	4.59	1.10	5.24
CC08212		0.32	<0.5	8.70	100	1000	2.1	<2	0.87	<0.5	5	78	16	3.00	2.26	0.81
CC08213		0.36	<0.5	8.41	91	900	1.7	<2	1.24	<0.5	6	46	23	3.14	2.25	0.82
CC08214		0.44	4.5	8.46	572	4630	2.7	<2	1.60	1.0	17	112	89	5.23	2.85	0.87
CC08215		0.72	<0.5	10.40	577	1200	2.9	<2	5.26	<0.5	30	89	45	4.59	3.21	0.72
CC08216		0.66	1.0	11.15	599	1330	2.9	<2	3.34	<0.5	29	100	62	4.49	3.44	0.54
CC08217		0.26	<0.5	7.68	11	850	1.2	<2	1.77	<0.5	5	13	16	1.72	2.18	0.52
CC08218		0.30	<0.5	7.89	17	890	1.4	<2	1.80	<0.5	7	26	17	2.29	2.18	0.78
CC08219		0.24	<0.5	7.93	11	900	1.7	<2	1.37	<0.5	4	45	12	2.00	2.14	0.89
CC08220		0.30	<0.5	7.52	14	920	1.5	<2	1.44	<0.5	5	35	19	2.53	1.95	0.89
CC08221		0.34	<0.5	7.84	273	1120	4.3	<2	0.95	<0.5	6	26	60	6.26	2.70	1.11
CC08222		0.16	<0.5	6.46	10	1260	4.1	<2	2.73	0.8	8	40	31	4.08	1.64	2.90
CC08223		0.46	<0.5	7.10	11	1540	6.1	<2	2.55	1.7	8	31	38	6.16	2.30	4.02
CC08224		0.14	<0.5	6.01	17	1440	5.1	<2	3.24	1.0	16	49	27	4.26	1.80	3.17
CC08225		0.26	<0.5	6.28	13	1620	4.4	<2	2.07	<0.5	6	44	18	3.21	1.78	2.51
CC08226		0.22	<0.5	7.15	<5	890	2.1	<2	2.42	<0.5	8	21	17	2.70	1.86	1.48
CC08227		0.14	<0.5	7.61	5	790	1.2	<2	2.01	<0.5	7	10	16	2.03	1.98	0.67
CC08228		0.18	<0.5	5.52	6	770	2.0	<2	1.91	<0.5	7	53	17	3.48	1.22	3.10
CC08229		0.18	<0.5	6.97	10	940	1.5	<2	1.96	<0.5	6	37	18	2.75	1.78	1.58
CC08230		0.34	1.1	4.73	84	1230	1.8	22	4.59	<0.5	30	49	86	6.13	0.98	7.30
CC08231		0.24	<0.5	6.63	7	1100	1.5	<2	2.40	<0.5	6	29	18	2.37	1.82	1.70
CC08232		0.14	<0.5	7.97	<5	890	1.3	<2	2.07	<0.5	7	16	19	2.17	2.14	0.74
CC08233		0.22	<0.5	6.24	26	1720	2.0	<2	2.41	<0.5	11	75	27	4.18	1.58	4.21
CC08234		0.24	<0.5	8.27	115	1510	2.3	<2	0.95	<0.5	13	98	41	5.81	2.04	1.96
CC08235		0.32	<0.5	11.70	27	2300	3.5	<2	5.11	<0.5	32	110	41	4.84	3.80	0.61
CC08236		0.34	<0.5	10.75	23	1140	2.9	<2	2.32	<0.5	23	96	50	4.73	3.09	1.81
CC08237		0.52	2.0	9.60	1410	1260	2.5	<2	1.33	<0.5	25	95	122	6.09	2.65	1.28
CC08238		0.28	0.5	8.42	55	730	1.7	<2	1.09	<0.5	4	65	45	3.40	1.84	0.61
CC08239		0.16	<0.5	7.15	<5	720	1.1	<2	1.66	<0.5	6	12	18	2.06	1.90	0.58
CC08240		0.24	0.6	7.85	48	800	1.4	<2	1.78	1.3	10	30	24	3.57	1.94	0.89



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08201		467	8	2.49	10	910	8	0.04	<5	588	0.34	65	<10	72
CC08202		444	11	1.88	20	1120	7	0.08	<5	352	0.25	105	<10	186
CC08203		280	13	1.73	26	750	10	0.03	<5	114	0.38	140	<10	208
CC08204		394	6	2.63	5	550	3	0.02	<5	563	0.28	61	<10	56
CC08205		387	2	2.59	5	730	3	0.02	<5	564	0.27	57	<10	52
CC08206		374	3	1.89	12	770	22	0.03	<5	382	0.29	146	<10	83
CC08207		389	1	2.41	5	900	4	0.06	<5	595	0.29	73	<10	51
CC08208		613	3	1.74	14	1470	85	0.09	<5	403	0.25	164	<10	255
CC08209		731	4	1.37	18	1400	150	0.07	<5	299	0.29	243	<10	315
CC08210		774	2	0.97	46	700	66	0.02	<5	160	0.27	121	<10	182
CC08211		726	1	1.05	23	1280	12	0.03	<5	192	0.26	76	<10	95
CC08212		251	4	0.96	13	1120	29	0.03	<5	236	0.38	190	<10	58
CC08213		429	3	1.78	13	940	40	0.03	<5	395	0.30	108	<10	93
CC08214		608	14	0.23	92	3070	1180	0.09	11	136	0.42	625	<10	223
CC08215		596	2	0.49	52	550	34	0.16	<5	244	0.41	95	<10	66
CC08216		537	2	0.53	52	610	83	0.15	<5	236	0.42	146	<10	56
CC08217		369	2	2.61	1	730	2	0.02	<5	564	0.23	63	<10	46
CC08218		449	3	2.34	9	900	13	0.02	<5	523	0.29	109	<10	58
CC08219		306	2	1.63	6	1760	14	0.05	<5	364	0.33	150	<10	50
CC08220		383	3	1.74	11	1100	13	0.05	<5	373	0.27	127	<10	63
CC08221		659	19	1.52	30	970	19	0.05	<5	126	0.36	64	10	186
CC08222		654	10	1.51	30	990	15	0.06	<5	256	0.33	100	<10	351
CC08223		619	5	1.56	31	1040	34	0.03	<5	114	0.63	91	<10	606
CC08224		681	9	1.22	33	1030	35	0.06	<5	146	0.47	136	<10	391
CC08225		467	3	1.58	18	1400	7	0.07	<5	209	0.39	137	<10	123
CC08226		424	1	2.37	9	1160	5	0.04	<5	533	0.34	74	<10	84
CC08227		528	1	2.61	5	560	<2	0.03	<5	600	0.25	47	<10	51
CC08228		952	2	1.08	14	2090	13	0.12	<5	178	0.35	92	<10	94
CC08229		842	2	1.95	12	780	14	0.03	<5	385	0.29	87	<10	113
CC08230		919	1	0.88	40	820	10	0.03	<5	158	0.24	76	<10	108
CC08231		454	2	1.98	9	1400	23	0.04	<5	423	0.26	114	<10	79
CC08232		416	1	2.66	5	820	9	0.03	<5	590	0.27	59	<10	60
CC08233		618	3	0.89	41	1780	57	0.07	<5	173	0.34	198	<10	235
CC08234		467	5	0.51	47	1060	136	0.02	<5	111	0.36	265	<10	128
CC08235		465	1	0.43	50	740	23	0.07	9	188	0.47	140	<10	107
CC08236		472	1	0.45	51	560	45	0.02	<5	200	0.35	116	<10	138
CC08237		890	6	0.58	64	1200	269	0.14	11	186	0.23	250	<10	184
CC08238		376	23	1.44	17	1720	24	0.07	<5	356	0.33	452	<10	98
CC08239		353	3	2.32	6	790	7	0.03	<5	528	0.27	97	<10	60
CC08240		471	4	1.99	17	930	33	0.04	<5	492	0.37	138	<10	112



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte Units LOR	Recvd Wt. kg 0.02	Ag ppm 0.5	Al % 0.01	As ppm 5	Ba ppm 10	Be ppm 0.5	BI ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	K % 0.01	Mg % 0.01
CC08241		0.14	<0.5	7.45	<5	840	1.2	<2	1.72	<0.5	4	4	17	1.79	2.23	0.52
CC08242		0.16	<0.5	5.89	16	1240	3.3	<2	1.56	0.9	9	38	38	3.48	1.56	1.30
CC08243		0.24	<0.5	7.27	<5	970	2.7	<2	2.17	<0.5	6	11	31	2.14	1.92	0.88
CC08244		0.24	<0.5	7.21	<5	1130	2.1	<2	1.62	<0.5	5	18	20	2.62	2.22	0.83
CC08245		0.22	<0.5	6.45	5	1320	4.1	<2	2.40	<0.5	8	32	17	3.44	1.82	2.04
CC08246		0.28	<0.5	6.05	24	1310	6.5	<2	5.55	<0.5	17	39	38	5.61	0.91	6.30
CC08247		0.14	<0.5	7.88	<5	870	1.3	<2	1.97	<0.5	5	4	18	1.88	2.24	0.64
CC08248		0.22	<0.5	5.07	63	1040	1.4	8	3.22	<0.5	19	29	29	5.69	1.14	5.17
CC08249		0.14	<0.5	8.12	8	1300	1.3	<2	2.87	<0.5	8	8	18	2.75	2.12	1.11
CC08250		0.38	0.8	5.96	35	1080	1.9	13	4.10	<0.5	21	39	49	4.53	1.24	5.69
CC08251		0.12	<0.5	7.87	<5	850	1.2	<2	1.98	<0.5	5	4	18	2.00	2.23	0.69
CC08252		0.08	<0.5	7.26	7	830	1.2	<2	2.02	<0.5	8	7	18	2.12	2.00	0.76
CC08253		0.16	1.2	6.81	23	1610	1.8	<2	2.03	<0.5	7	41	41	3.43	1.68	2.08
CC08254		0.30	<0.5	7.13	23	2600	1.7	<2	1.47	<0.5	8	33	27	3.03	1.99	1.54
CC08255		0.24	<0.5	7.54	5	850	1.5	<2	1.65	<0.5	7	28	25	2.68	2.14	1.04
CC08256		0.38	0.7	4.47	13	950	4.3	<2	4.23	<0.5	29	54	78	7.16	0.90	6.84
CC08257		0.28	2.0	7.68	342	1720	2.3	<2	3.78	0.5	27	72	127	6.57	2.22	3.52
CC08258		0.24	<0.5	5.95	100	1100	2.2	<2	2.99	<0.5	18	72	53	5.72	1.42	4.26
CC08259		0.24	0.7	5.20	48	1930	2.3	2	4.57	1.0	21	46	90	6.39	1.52	6.30
CC08260		0.36	0.9	7.98	70	1320	2.2	<2	1.82	<0.5	12	80	83	5.32	2.00	2.35
CC08261		0.20	<0.5	7.85	<5	880	1.3	<2	1.92	<0.5	4	5	18	1.99	2.23	0.60
CC08262		0.22	<0.5	7.07	11	1120	1.5	<2	1.34	<0.5	5	22	35	3.19	1.98	0.71
CC08263		0.36	<0.5	6.92	26	1220	2.5	<2	0.75	<0.5	10	40	72	4.08	2.04	0.87
CC08264		0.38	<0.5	6.24	22	1560	4.2	<2	3.20	0.5	9	37	37	4.14	1.47	3.58
CC08265		0.36	<0.5	5.66	12	1870	3.5	<2	1.02	<0.5	11	53	31	3.59	1.98	2.23
CC08266		0.36	<0.5	5.62	36	1040	7.4	<2	4.06	<0.5	9	43	145	4.57	1.04	4.66
CC08267		0.36	<0.5	6.37	13	1940	4.4	<2	4.58	<0.5	26	25	75	7.01	1.02	5.12
CC08268		0.16	<0.5	7.93	5	800	1.2	<2	2.28	<0.5	7	8	17	2.39	2.04	0.90
CC08269		0.32	<0.5	5.24	24	730	2.4	6	4.74	<0.5	18	43	58	6.78	0.85	5.69
CC08270		0.22	<0.5	8.11	<5	860	1.3	<2	2.02	<0.5	5	4	18	1.92	2.26	0.65
CC08271		0.32	<0.5	4.92	15	960	2.0	7	3.12	<0.5	25	52	61	5.86	0.94	7.30
CC08272		0.16	<0.5	6.93	<5	770	1.2	<2	1.88	<0.5	7	11	20	2.33	1.78	1.63
CC08273		0.20	<0.5	6.72	6	1640	1.6	<2	1.68	<0.5	4	38	17	2.55	1.82	1.58
CC08274		0.16	<0.5	6.07	8	820	1.2	<2	1.68	<0.5	6	8	21	1.82	1.99	1.20
CC08275		0.14	<0.5	6.97	12	1000	1.4	<2	1.89	<0.5	7	17	25	2.47	1.87	1.75
CC08276		0.36	0.8	4.58	43	1460	2.1	2	3.69	<0.5	25	62	72	6.01	1.24	6.33
CC08277		0.30	1.1	7.41	138	1390	2.2	<2	2.66	<0.5	22	82	90	5.52	2.02	3.25
CC08278		0.28	0.9	6.55	102	1420	2.1	2	2.56	<0.5	20	76	69	5.23	1.76	4.88
CC08279		0.32	<0.5	7.73	38	1160	1.9	<2	1.06	0.9	12	62	33	3.47	2.00	1.50
CC08280		0.28	<0.5	7.19	26	900	1.6	<2	1.18	<0.5	5	59	20	2.79	1.81	1.31



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08241		376	1	2.75	1	350	5	0.01	<5	569	0.23	41	<10	47
CC08242		438	15	1.39	30	1370	21	0.10	<5	188	0.27	116	<10	239
CC08243		405	4	2.32	16	910	6	0.07	<5	481	0.24	53	<10	96
CC08244		508	6	2.33	8	960	7	0.03	<5	428	0.32	79	<10	72
CC08245		703	4	1.67	12	1300	9	0.04	<5	259	0.39	108	<10	138
CC08246		771	2	0.62	31	550	18	0.02	<5	90	0.48	102	<10	505
CC08247		395	2	2.83	4	490	3	0.02	<5	620	0.23	41	<10	55
CC08248		1360	2	1.11	18	1440	10	0.07	<5	210	0.25	55	<10	130
CC08249		585	2	2.72	8	380	5	0.02	<5	626	0.32	64	<10	63
CC08250		1065	1	1.29	27	700	20	0.02	<5	254	0.31	77	<10	111
CC08251		408	2	2.85	6	420	<2	0.02	<5	621	0.25	46	<10	51
CC08252		610	3	2.46	4	790	6	0.05	<5	534	0.23	46	<10	52
CC08253		431	5	1.33	40	2390	116	0.09	<5	337	0.35	276	<10	247
CC08254		543	4	1.58	24	1840	83	0.08	<5	343	0.26	186	<10	158
CC08255		417	2	2.17	12	1200	10	0.04	<5	454	0.28	66	<10	67
CC08256		1425	1	0.83	51	1200	13	0.01	<5	142	0.28	73	<10	150
CC08257		1130	2	0.58	59	1270	442	0.03	7	158	0.33	140	<10	201
CC08258		904	1	0.78	43	960	83	0.03	<5	152	0.34	114	<10	165
CC08259		826	5	0.27	58	1420	114	0.04	6	77	0.23	184	<10	263
CC08260		399	33	0.44	70	740	64	0.03	6	128	0.28	625	<10	176
CC08261		402	3	2.75	5	600	6	0.02	<5	587	0.24	48	<10	49
CC08262		284	36	1.96	19	1620	6	0.10	5	399	0.23	116	<10	55
CC08263		292	43	1.25	45	980	21	0.05	5	212	0.19	167	<10	116
CC08264		555	6	1.22	25	1080	12	0.08	<5	174	0.27	104	<10	304
CC08265		413	6	1.23	27	1820	9	0.09	<5	88	0.32	177	<10	138
CC08266		571	2	0.75	38	1550	16	0.09	<5	99	0.32	87	<10	772
CC08267		1050	2	0.69	43	1500	34	0.06	<5	143	0.57	92	<10	488
CC08268		433	2	2.78	7	490	3	0.03	<5	657	0.29	58	<10	58
CC08269		948	1	0.81	37	530	6	0.03	<5	163	0.29	73	<10	130
CC08270		392	1	2.93	3	440	5	0.02	<5	654	0.24	43	<10	49
CC08271		1190	1	0.85	37	1090	15	0.03	<5	131	0.35	78	<10	213
CC08272		668	2	2.26	5	1170	7	0.06	<5	481	0.24	47	<10	66
CC08273		444	1	1.59	16	1280	46	0.06	<5	318	0.31	252	<10	120
CC08274		417	<1	2.16	7	540	19	0.02	<5	424	0.20	43	<10	68
CC08275		552	1	2.07	13	1440	42	0.08	<5	411	0.23	76	<10	128
CC08276		1130	1	0.58	56	1220	89	0.02	<5	106	0.28	132	<10	241
CC08277		720	1	0.73	58	1220	91	0.05	19	188	0.30	142	<10	164
CC08278		782	1	0.68	60	1280	103	0.03	7	156	0.32	166	<10	199
CC08279		487	7	1.05	29	1530	61	0.06	7	234	0.32	259	<10	166
CC08280		307	4	1.41	22	1040	34	0.03	<5	262	0.33	239	<10	91



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08281		0.54	<0.5	3.36	18	1170	1.9	<2	5.58	<0.5	14	39	42	3.87	0.80	9.63
CC08282		0.30	<0.5	5.74	<5	1010	1.4	<2	2.20	<0.5	6	24	22	2.67	1.43	5.59
CC08283		0.24	<0.5	7.05	12	940	1.2	<2	1.84	<0.5	4	9	17	1.74	2.01	0.75
CC08284		0.40	0.9	5.68	41	1990	2.0	<2	3.36	0.7	15	59	55	4.05	1.72	5.91
CC08285		0.38	1.0	9.10	92	1370	2.3	<2	4.40	<0.5	26	97	91	4.31	2.22	2.65
CC08286		0.34	<0.5	7.50	53	2090	2.4	<2	1.68	0.5	17	86	83	4.33	2.18	4.01
CC08287		0.38	0.5	5.08	19	1920	1.6	<2	2.50	<0.5	7	34	28	2.93	1.39	3.19
CC08288		0.22	<0.5	7.34	89	980	2.0	<2	0.89	<0.5	13	76	55	4.64	1.90	1.41
CC08289		0.32	<0.5	4.07	17	840	1.4	<2	5.39	<0.5	8	35	28	3.33	0.86	7.32
CC08290		0.24	<0.5	6.93	<5	890	1.2	<2	1.74	<0.5	5	7	18	1.71	1.92	0.57
CC08291		0.26	<0.5	4.95	26	1890	1.6	<2	3.31	1.0	11	57	39	3.53	1.38	5.80
CC08292		0.44	1.8	6.10	136	2340	1.9	<2	1.76	2.2	11	81	102	4.26	1.88	4.02
CC08293		0.50	<0.5	9.13	76	730	2.7	<2	0.52	<0.5	15	86	53	4.15	3.15	0.61
CC08294		0.42	<0.5	8.10	71	1250	2.5	<2	1.11	<0.5	22	89	54	5.19	2.37	2.08
CC08295		0.36	0.5	2.64	26	690	1.6	<2	7.83	0.9	12	35	45	4.54	0.60	7.78
CC08296		0.32	<0.5	5.79	6	940	1.6	<2	5.18	<0.5	8	14	33	2.83	1.49	4.98
CC08297		0.40	<0.5	6.03	15	2040	2.5	<2	2.48	<0.5	13	57	44	4.28	1.63	5.80
CC08298		0.32	<0.5	6.71	<5	1490	1.4	<2	2.14	<0.5	6	34	24	2.64	1.75	2.43
CC08299		0.28	<0.5	7.20	<5	900	1.2	<2	1.82	<0.5	4	4	18	1.72	2.10	0.60
CC08300		0.24	<0.5	7.18	<5	870	1.2	<2	1.78	<0.5	4	7	17	1.70	2.09	0.56
CC08301		0.32	<0.5	7.41	29	960	1.5	<2	1.29	<0.5	8	32	30	3.07	2.19	0.66
CC08302		0.30	<0.5	4.54	18	690	1.4	<2	4.96	<0.5	9	35	33	3.21	1.05	6.43
CC08303		0.16	<0.5	7.29	<5	790	1.2	<2	2.35	<0.5	6	8	20	2.27	1.87	1.05
CC08304		0.20	<0.5	6.23	6	1560	1.4	<2	2.34	4.5	12	33	21	2.38	1.71	1.49
CC08305		0.30	<0.5	6.68	27	1360	1.5	<2	1.15	1.0	7	51	23	2.93	1.87	1.43
CC08306		0.26	<0.5	7.94	22	1130	1.8	<2	1.33	<0.5	10	44	28	2.86	2.23	0.87
CC08307		0.40	<0.5	7.39	39	940	1.7	<2	0.73	<0.5	10	53	34	4.39	2.18	0.71
CC08308		0.40	1.0	5.90	52	860	1.7	<2	0.68	<0.5	14	55	78	4.22	1.99	0.53
CC08309		0.40	<0.5	2.53	29	710	2.5	<2	7.71	<0.5	12	22	52	4.44	0.61	12.45
CC08310		0.42	<0.5	7.71	8	940	1.3	<2	2.01	<0.5	5	4	18	1.88	2.14	0.71
CC08311		0.34	<0.5	7.79	16	1070	1.7	<2	1.24	<0.5	7	40	17	2.73	2.22	0.85
CC08312		0.24	<0.5	7.16	<5	930	1.4	<2	1.54	0.5	10	20	21	2.18	2.01	0.68
CC08313		0.36	<0.5	7.36	10	900	1.5	<2	1.11	<0.5	6	40	24	2.47	2.10	0.60
CC08314		0.42	1.9	5.56	40	2900	2.4	<2	4.27	2.6	16	68	58	3.97	1.99	4.02
CC08315		0.48	0.8	4.41	29	1930	2.1	2	6.88	1.2	15	47	43	3.41	1.46	7.36
CC08316		0.36	<0.5	3.75	11	930	3.1	<2	7.09	0.5	10	16	36	2.66	0.95	10.85
CC08317		0.50	<0.5	3.01	21	1150	1.4	<2	11.30	1.6	11	34	30	3.41	0.94	10.20
CC08318		0.26	<0.5	7.17	8	1260	1.4	<2	2.06	<0.5	5	21	21	2.26	2.04	0.82
CC08319		0.38	<0.5	7.48	28	2170	2.4	<2	0.35	<0.5	10	79	23	4.14	2.27	0.87
CC08320		0.42	<0.5	4.24	20	1330	2.0	<2	6.82	1.9	11	35	31	2.97	1.21	9.02



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08281		989	<1	0.60	26	1200	43	0.04	<5	100	0.20	106	<10	140
CC08282		490	<1	1.47	11	1020	34	0.06	<5	286	0.22	79	<10	136
CC08283		362	<1	2.46	5	860	7	0.05	6	499	0.22	57	<10	50
CC08284		619	4	0.82	76	1300	69	0.03	7	136	0.35	279	<10	294
CC08285		448	2	0.93	78	1360	70	0.05	32	318	0.34	164	<10	207
CC08286		490	3	0.48	85	1300	72	0.03	10	135	0.35	287	<10	282
CC08287		856	2	1.03	24	1370	148	0.09	6	216	0.22	231	<10	257
CC08288		849	12	0.72	37	1040	77	0.03	11	158	0.32	430	<10	242
CC08289		681	<1	0.77	22	990	86	0.05	5	145	0.21	102	<10	202
CC08290		578	<1	2.31	4	720	18	0.06	<5	464	0.19	42	<10	64
CC08291		725	3	0.50	49	1720	66	0.08	<5	88	0.33	229	<10	278
CC08292		415	16	0.46	95	1610	80	0.07	23	78	0.34	528	<10	507
CC08293		194	15	0.38	64	750	51	0.06	18	96	0.32	346	<10	54
CC08294		746	8	0.55	75	1520	55	0.04	8	122	0.34	283	<10	141
CC08295		1070	2	0.28	38	1460	130	0.12	7	81	0.20	110	<10	278
CC08296		604	1	1.59	14	770	27	0.04	<5	347	0.28	89	<10	146
CC08297		604	2	0.73	46	1050	92	0.04	5	138	0.37	330	<10	319
CC08298		428	1	1.74	24	1100	20	0.07	8	372	0.30	210	<10	146
CC08299		352	<1	2.60	6	770	13	0.04	<5	520	0.21	43	<10	48
CC08300		485	1	2.57	3	670	11	0.04	<5	526	0.21	58	<10	58
CC08301		566	3	1.90	15	1440	32	0.03	<5	400	0.27	120	<10	63
CC08302		663	2	1.06	18	1280	45	0.05	<5	227	0.25	94	<10	110
CC08303		464	<1	2.56	7	730	10	0.04	<5	588	0.28	64	<10	66
CC08304		1185	3	1.45	25	1480	55	0.10	<5	338	0.25	221	<10	268
CC08305		1205	6	1.11	21	1800	38	0.06	7	247	0.33	211	<10	116
CC08306		769	1	1.58	21	1220	28	0.05	5	338	0.31	134	<10	89
CC08307		615	3	1.18	28	1840	99	0.04	5	258	0.28	156	<10	90
CC08308		762	4	0.69	42	2480	69	0.04	6	159	0.24	190	<10	84
CC08309		600	1	0.26	19	1330	21	0.04	<5	81	0.26	63	<10	106
CC08310		382	1	2.70	6	660	16	0.02	<5	568	0.22	43	<10	51
CC08311		458	1	1.53	18	1360	28	0.04	<5	323	0.28	122	<10	92
CC08312		816	1	2.13	10	1200	22	0.08	<5	453	0.26	71	<10	70
CC08313		339	2	1.65	12	1790	22	0.04	<5	354	0.28	126	<10	66
CC08314		780	16	0.17	94	1580	221	0.10	17	96	0.31	383	<10	684
CC08315		589	11	0.25	65	1220	160	0.06	12	103	0.24	224	<10	566
CC08316		572	1	0.40	22	1160	26	0.03	<5	118	0.47	95	<10	150
CC08317		632	3	0.23	38	820	71	0.06	9	99	0.18	82	<10	405
CC08318		359	3	2.09	18	810	40	0.06	6	447	0.26	139	<10	120
CC08319		349	6	0.47	44	1860	158	0.05	8	82	0.34	425	<10	242
CC08320		926	2	0.35	44	1000	81	0.05	9	108	0.22	122	<10	431



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Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg 0.02	Ag ppm 0.5	Al % 0.01	As ppm 5	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	K % 0.01	Mg % 0.01
CC08321		0.60	1.5	5.62	37	2940	2.3	<2	6.19	3.0	14	66	53	3.54	2.20	4.05
CC08322		0.46	1.5	5.98	40	3230	2.5	<2	4.88	3.1	17	74	63	3.92	2.31	3.37
CC08323		0.28	<0.5	1.94	11	470	1.0	<2	14.35	<0.5	3	20	9	1.38	0.50	12.25
CC08324		0.28	2.3	5.22	93	4070	2.4	<2	8.19	11.0	21	53	76	5.87	1.77	3.40
CC08325		0.28	2.1	7.93	32	2110	2.4	<2	1.02	2.7	23	64	75	4.97	2.66	1.10
CC08326		0.38	2.9	7.61	40	2270	2.8	<2	0.46	3.0	17	83	53	5.44	2.55	1.19
CC08327		0.30	3.4	5.86	54	3310	2.5	<2	0.89	5.1	15	70	69	4.98	2.16	0.85
CC08328		0.38	1.9	6.06	41	3240	2.6	<2	4.59	2.9	18	74	65	4.22	2.41	3.33
CC08329		0.36	1.7	7.07	38	3130	2.6	<2	3.34	1.3	19	84	54	4.06	2.63	2.52
CC08330		0.24	<0.5	4.14	7	800	1.3	<2	3.56	0.9	7	25	16	2.31	1.03	5.87
CC08331		0.62	<0.5	3.32	28	970	1.6	<2	13.75	0.7	11	18	11	3.38	1.23	8.97
CC08332		0.62	<0.5	3.84	21	1050	1.7	<2	11.90	<0.5	15	17	16	4.12	1.65	7.80
CC08333		0.28	<0.5	4.58	19	780	1.3	2	7.23	0.5	8	25	19	2.91	1.23	4.27
CC08334		0.54	<0.5	7.53	25	3650	2.6	<2	7.48	<0.5	16	24	12	5.18	3.06	5.06
CC08335		0.42	<0.5	9.10	29	1830	2.6	<2	3.37	0.7	20	29	16	7.45	3.64	2.59
CC08336		0.36	0.7	8.66	30	2500	2.4	<2	1.20	2.4	17	77	30	5.25	3.51	1.36
CC08337		0.58	0.8	8.12	21	4510	2.8	<2	3.12	<0.5	13	98	48	3.62	2.87	1.12
CC08338		0.48	<0.5	6.80	8	1140	1.7	<2	4.40	<0.5	11	60	15	3.57	2.11	2.31
CC08339		0.32	<0.5	3.89	12	770	1.5	<2	11.15	2.3	7	25	15	2.53	1.05	7.68
CC08340		0.54	<0.5	1.46	9	320	0.7	<2	17.00	<0.5	4	9	9	1.78	0.50	11.10
CC08341		0.62	1.1	2.44	23	790	2.0	<2	15.35	5.0	7	17	16	3.61	0.87	9.92
CC08342		0.52	<0.5	2.09	10	520	1.0	<2	14.95	2.0	4	21	11	2.56	0.72	9.70
CC08343		0.50	1.1	3.80	28	2700	1.6	<2	12.00	1.2	7	43	19	4.12	1.58	7.90
CC08344		0.72	0.6	9.17	29	3860	2.0	<2	3.78	1.2	18	47	16	4.66	3.91	2.63
CC08345		0.50	2.6	6.95	22	3440	2.5	<2	2.34	<0.5	16	106	59	3.90	2.32	1.48
CC08346		0.58	<0.5	8.41	7	1180	2.4	<2	4.95	<0.5	12	79	20	3.54	3.72	1.60
CC08347		0.38	<0.5	1.60	11	430	0.9	<2	16.20	1.4	5	18	11	1.86	0.48	10.90
CC08348		0.38	<0.5	3.16	14	620	1.0	<2	12.05	0.5	4	25	10	2.48	0.83	9.13
CC08349		0.62	0.7	2.82	36	1350	2.3	<2	13.15	1.4	9	32	15	4.42	1.02	8.44
CC08350		0.42	3.0	6.04	33	2990	2.5	<2	4.09	6.4	9	69	45	5.93	2.21	2.67
CC08351		0.48	4.0	5.63	27	2530	2.4	<2	4.60	6.4	8	76	41	4.41	2.10	3.04
CC08352		0.44	3.0	5.83	51	4800	2.5	<2	1.82	8.1	17	87	67	4.78	2.47	2.17
CC08353		0.16	<0.5	2.57	17	620	1.0	<2	3.87	1.5	8	41	16	2.32	0.67	4.35
CC08354		0.38	<0.5	4.15	19	1350	1.5	<2	6.11	1.6	9	53	17	3.20	1.01	5.89
CC08355		0.40	<0.5	3.36	5	1670	0.8	<2	6.10	<0.5	5	42	13	1.92	1.05	9.37
CC08356		0.32	<0.5	5.72	5	2320	1.5	<2	2.42	0.6	7	30	23	2.53	1.52	3.21
CC08357		0.44	2.6	6.70	34	2960	2.5	<2	1.88	4.5	10	70	86	5.36	2.49	1.24
CC08358		0.48	2.8	5.84	34	2410	2.7	<2	3.35	2.8	14	67	60	4.53	2.39	2.23
CC08359		0.52	1.9	6.08	31	3240	2.6	<2	1.50	3.3	21	106	56	4.44	2.42	1.84
CC08360		0.30	<0.5	6.25	18	1050	1.7	2	1.64	0.8	12	59	15	3.63	1.89	1.35



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		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08321		798	21	0.12	92	1580	220	0.24	19	142	0.28	456	<10	673
CC08322		735	19	0.11	96	1770	311	0.21	14	128	0.33	444	<10	749
CC08323		607	<1	0.33	12	840	42	0.04	7	136	0.12	26	<10	83
CC08324		819	21	0.59	146	640	266	0.29	16	323	0.23	403	<10	2060
CC08325		1725	5	0.73	65	1320	382	0.05	9	172	0.31	312	<10	624
CC08326		1015	7	0.49	63	1280	680	0.03	12	77	0.30	470	<10	980
CC08327		1040	14	0.33	92	2380	651	0.06	20	124	0.30	630	<10	952
CC08328		874	19	0.12	96	1720	227	0.20	12	128	0.31	428	<10	649
CC08329		587	9	0.18	70	1900	146	0.11	10	114	0.38	305	<10	434
CC08330		1455	1	0.94	17	1100	142	0.09	7	178	0.17	59	<10	298
CC08331		1260	<1	0.39	15	1540	99	0.02	<5	125	0.35	76	<10	237
CC08332		998	1	0.22	20	2070	63	0.03	9	87	0.40	83	<10	182
CC08333		857	<1	1.09	17	1070	63	0.08	<5	289	0.26	59	<10	152
CC08334		1025	3	0.42	25	2170	84	0.08	10	161	0.62	76	<10	217
CC08335		1750	1	0.43	28	2280	134	0.06	16	112	0.42	138	<10	370
CC08336		1100	7	0.57	53	1680	97	0.05	15	112	0.42	439	<10	538
CC08337		532	3	0.31	52	2680	36	0.02	5	121	0.39	493	<10	91
CC08338		667	<1	0.95	26	980	28	0.03	5	181	0.34	80	<10	77
CC08339		1390	<1	0.83	16	920	225	0.04	16	199	0.17	49	<10	577
CC08340		1205	1	0.20	7	710	35	0.02	<5	114	0.10	34	<10	90
CC08341		1580	1	0.18	16	960	898	0.04	25	116	0.17	41	<10	854
CC08342		1035	<1	0.32	10	590	513	0.02	5	132	0.12	33	<10	988
CC08343		1160	4	0.27	38	700	305	0.06	13	128	0.18	238	<10	508
CC08344		1175	4	0.42	37	2090	93	0.07	11	98	0.75	259	<10	311
CC08345		473	5	0.17	60	4210	50	0.03	10	134	0.39	620	<10	69
CC08346		252	<1	0.19	29	570	17	0.01	5	120	0.34	68	<10	55
CC08347		873	<1	0.24	14	640	124	0.02	8	112	0.11	35	<10	328
CC08348		1300	1	0.45	15	1080	54	0.03	<5	140	0.19	53	<10	153
CC08349		1100	2	0.19	31	910	314	0.02	14	106	0.20	116	<10	456
CC08350		941	10	0.69	58	1140	3380	0.09	18	168	0.32	370	<10	2420
CC08351		709	12	0.48	62	1040	5540	0.10	23	122	0.31	339	<10	3900
CC08352		611	28	0.17	126	1500	218	0.31	20	73	0.33	1060	<10	972
CC08353		1215	<1	0.41	24	1180	83	0.13	7	71	0.17	68	<10	346
CC08354		1455	1	0.63	25	1820	93	0.12	<5	144	0.26	82	<10	434
CC08355		547	<1	0.57	18	830	43	0.09	<5	137	0.24	40	<10	99
CC08356		651	1	1.49	24	1180	64	0.11	6	329	0.25	97	<10	268
CC08357		963	11	1.10	58	1120	2180	0.07	17	221	0.35	354	<10	1715
CC08358		1025	29	0.55	98	1000	2230	0.11	30	152	0.34	376	<10	1500
CC08359		864	23	0.27	136	1230	320	0.04	20	74	0.39	583	<10	750
CC08360		1185	<1	0.36	26	1620	33	0.13	<5	79	0.27	102	<10	126



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CERTIFICATE OF ANALYSIS VA04047159

Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
Sample Description															
CC08361	0.56	2.1	6.78	21	5210	2.6	<2	5.92	<0.5	19	106	79	4.03	2.31	1.89
CC08366	0.52	<0.5	7.73	10	820	3.4	<2	0.43	<0.5	3	11	11	4.81	2.76	0.69
CC08367	0.40	<0.5	7.24	6	850	1.2	<2	1.74	<0.5	4	3	21	1.53	2.16	0.51
CC08368	0.36	<0.5	7.20	8	890	1.2	<2	1.74	<0.5	3	5	16	1.88	1.65	0.56
CC08369	0.36	<0.5	6.82	9	1630	3.4	<2	1.18	<0.5	6	36	32	3.84	2.41	1.15
CC08370	0.36	<0.5	7.53	<5	890	1.3	<2	2.21	<0.5	6	5	19	1.94	2.17	0.66
CC08371	0.30	<0.5	7.10	<5	840	1.2	<2	2.23	<0.5	5	4	17	1.86	2.01	0.60
CC08372	0.32	<0.5	7.74	11	920	1.4	<2	1.55	<0.5	4	13	16	1.78	2.36	0.55
CC08373	0.36	<0.5	7.84	7	890	1.3	<2	1.65	<0.5	4	9	17	1.65	2.40	0.54
CC08374	0.34	<0.5	7.73	14	840	1.6	<2	1.40	<0.5	7	32	17	2.57	2.39	0.69
CC08375	0.36	<0.5	7.77	7	850	1.4	<2	1.60	<0.5	5	12	22	2.02	2.24	0.55
CC08376	0.40	<0.5	7.86	49	1050	1.6	<2	1.45	<0.5	10	30	30	3.42	2.26	0.99
CC08377	0.40	<0.5	7.73	28	870	1.7	<2	0.83	<0.5	7	46	20	2.73	2.43	0.60
CC08378	0.42	<0.5	8.14	78	900	2.1	<2	1.01	<0.5	23	68	56	5.06	2.45	0.98
CC08386	0.60	<0.5	5.16	63	1750	9.2	2	1.15	2.0	43	70	128	6.35	2.18	1.26
CC08387	0.66	0.6	6.38	55	1030	3.6	2	0.39	<0.5	42	75	100	4.34	2.11	0.82
CC08388	0.84	<0.5	6.16	39	1210	2.9	<2	0.41	<0.5	26	69	59	4.85	2.63	0.66
CC08389	0.70	<0.5	6.91	45	1400	3.0	2	1.04	<0.5	25	66	107	4.92	2.42	0.95
CC08390	0.48	<0.5	6.90	52	710	3.6	2	0.43	33.4	15	78	71	3.35	2.37	0.53
CC08391	0.62	<0.5	6.61	9	730	3.6	<2	0.62	0.5	7	43	22	3.24	2.25	0.47
CC08392	0.70	<0.5	7.36	11	620	5.5	<2	0.55	<0.5	6	24	14	3.83	2.84	0.53
CC08393	0.58	<0.5	7.06	24	480	5.4	<2	0.81	<0.5	11	55	25	2.62	1.42	0.84
CC08396	0.22	0.7	7.44	32	1900	2.5	<2	2.17	2.6	20	77	42	4.57	2.29	2.03
CC08397	0.12	0.5	5.52	75	830	1.7	<2	2.70	5.5	14	56	41	3.55	1.49	2.12
CC08398	0.26	0.6	7.74	375	1120	2.3	2	1.12	2.1	15	67	50	5.08	2.16	1.43
CC08399	0.22	0.6	8.14	408	1060	2.6	<2	1.41	1.5	14	68	58	4.90	2.27	1.34
CC08401	0.50	<0.5	4.95	65	1470	13.8	<2	2.26	0.9	75	53	222	10.65	1.62	2.22
CC08402	0.54	<0.5	5.82	61	1830	9.4	<2	0.84	2.0	29	64	96	4.87	2.48	0.88
CC08403	0.34	0.6	6.42	60	870	3.9	<2	0.56	<0.5	41	71	107	4.53	2.04	0.86
CC08404	0.54	<0.5	7.75	45	1100	2.8	<2	1.29	<0.5	25	57	74	3.80	2.48	0.91
CC08405	0.50	<0.5	7.43	24	1080	3.0	<2	0.65	<0.5	15	59	41	4.04	2.79	0.75
CC08406	0.56	<0.5	6.77	34	1120	3.0	<2	0.67	0.8	22	58	68	3.96	2.69	0.68
CC08407	0.44	<0.5	6.76	32	940	3.5	<2	0.56	0.6	15	72	58	3.83	2.54	0.52
CC08408	0.56	<0.5	6.41	29	650	3.3	<2	0.60	2.8	12	54	42	3.32	2.25	0.54
CC08409	0.58	<0.5	7.42	10	590	4.0	<2	0.65	<0.5	6	24	18	3.94	2.50	0.61
CC08410	0.58	<0.5	8.58	8	940	4.1	<2	0.52	<0.5	6	20	11	5.35	3.52	0.69
CC08411	0.44	0.8	4.29	83	1030	10.8	2	8.30	3.8	45	42	142	8.88	0.93	5.49
CC08412	0.54	0.7	4.15	54	1950	12.6	<2	4.70	0.9	48	44	174	15.05	1.44	4.93
CC08413	0.48	0.5	5.30	68	1460	11.2	<2	0.84	2.2	43	54	138	7.28	2.21	1.20
CC08414	0.46	<0.5	6.05	54	1560	9.8	<2	1.20	2.4	28	61	85	5.17	2.58	1.26



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08361		514	4	0.18	64	3720	80	0.09	10	207	0.43	323	<10	127
CC08366		312	9	2.66	8	500	23	0.02	<5	105	0.38	44	<10	49
CC08367		335	1	2.69	4	580	12	0.09	<5	538	0.20	30	<10	53
CC08368		349	1	2.45	5	610	8	0.07	<5	487	0.17	34	<10	45
CC08369		416	6	1.65	30	940	24	0.07	<5	150	0.29	132	<10	265
CC08370		389	<1	2.84	6	680	9	0.05	<5	600	0.25	48	<10	56
CC08371		354	1	2.61	4	750	7	0.09	<5	547	0.24	44	<10	49
CC08372		348	1	2.59	3	680	16	0.02	<5	519	0.24	59	<10	44
CC08373		342	1	2.74	2	560	12	0.02	<5	552	0.24	46	<10	45
CC08374		341	2	1.99	14	740	15	0.01	<5	410	0.32	105	<10	49
CC08375		385	<1	2.52	8	790	18	0.02	7	505	0.23	56	<10	56
CC08376		743	2	2.01	15	1100	47	0.02	<5	419	0.27	118	<10	70
CC08377		275	4	1.48	17	860	17	0.01	<5	290	0.34	144	<10	47
CC08378		836	3	1.01	51	1220	64	0.04	7	217	0.29	184	<10	97
CC08386		1050	26	0.54	98	1500	97	0.10	13	90	0.31	228	<10	512
CC08387		414	12	0.97	110	1300	34	0.11	9	58	0.21	291	<10	126
CC08388		553	13	0.53	96	1550	32	0.06	7	40	0.21	277	10	94
CC08389		513	17	0.97	79	1340	21	0.10	<5	189	0.36	294	<10	122
CC08390		713	8	0.96	64	1200	22	0.06	5	46	0.18	320	<10	3340
CC08391		948	11	1.41	28	880	33	0.04	<5	104	0.23	133	<10	132
CC08392		1400	24	1.43	14	650	19	0.03	<5	91	0.21	64	<10	76
CC08393		578	34	2.55	65	960	11	0.03	<5	204	0.27	201	<10	74
CC08396		3140	8	0.61	71	1150	114	0.13	7	155	0.30	248	<10	466
CC08397		640	7	0.45	54	1760	74	0.15	<5	120	0.23	216	<10	260
CC08398		258	5	0.53	47	1040	134	0.11	<5	151	0.29	211	<10	160
CC08399		594	4	0.65	45	1130	106	0.08	5	178	0.30	200	<10	172
CC08401		1565	14	0.39	97	1510	60	0.14	<5	68	0.47	156	10	467
CC08402		859	22	0.52	112	1580	104	0.08	8	95	0.34	273	<10	564
CC08403		491	13	1.23	98	1660	37	0.13	<5	67	0.22	264	<10	131
CC08404		520	8	1.41	69	1420	31	0.05	<5	293	0.28	242	<10	160
CC08405		499	11	0.88	55	1210	14	0.03	<5	154	0.18	246	20	65
CC08406		1050	15	0.68	65	1460	19	0.06	<5	128	0.18	259	<10	180
CC08407		695	15	0.52	61	1060	23	0.10	<5	43	0.17	276	<10	275
CC08408		728	12	0.75	52	1220	22	0.07	<5	89	0.19	239	<10	475
CC08409		1115	15	1.47	18	710	14	0.06	<5	127	0.25	81	<10	97
CC08410		976	14	0.94	15	720	9	0.03	<5	76	0.21	49	10	102
CC08411		1920	2	0.23	53	1680	56	0.08	5	81	0.28	76	<10	1150
CC08412		1420	4	0.20	60	1060	34	0.11	5	71	0.34	98	10	554
CC08413		940	26	0.48	110	1680	165	0.19	8	82	0.29	217	<10	627
CC08414		959	19	0.53	99	1440	126	0.11	7	64	0.27	260	<10	503



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08415		0.38	<0.5	7.78	28	1160	4.0	<2	0.59	<0.5	15	57	56	3.16	2.35	0.74
CC08416		0.72	<0.5	6.93	34	1360	3.3	<2	0.51	0.8	19	66	61	4.03	2.59	0.66
CC08417		0.56	<0.5	6.92	27	900	3.0	<2	0.71	0.5	11	59	40	3.05	2.24	0.60
CC08418		0.58	<0.5	7.34	18	850	3.3	<2	0.69	<0.5	10	36	13	5.54	2.77	0.95
CC08419		0.60	<0.5	7.29	13	880	3.7	<2	0.76	<0.5	7	25	29	6.78	2.90	0.70
CC08420		0.52	1.9	9.07	54	1120	3.7	<2	0.41	10.8	5	5	102	12.45	4.49	0.90
CC08421		0.42	<0.5	7.06	15	970	2.0	<2	1.66	0.8	12	35	56	4.42	1.72	1.16
CC08422		0.34	0.8	5.60	41	1280	4.3	<2	3.29	2.8	18	45	93	5.72	1.24	5.74
CC08423		0.30	1.0	5.34	51	1800	11.0	<2	3.23	4.6	42	48	176	9.31	1.90	4.93
CC08424		0.32	<0.5	6.74	23	1260	3.8	<2	0.94	<0.5	14	41	40	3.55	2.16	0.78
CC08425		0.42	<0.5	6.65	38	2030	4.3	<2	0.36	0.7	28	65	128	5.76	2.48	0.83
CC08426		0.48	<0.5	6.57	32	1240	3.6	<2	0.50	0.9	20	59	56	3.80	2.30	0.75
CC08427		0.52	<0.5	7.97	6	720	3.3	<2	1.08	<0.5	2	7	37	7.35	3.00	0.98
CC08428		0.26	<0.5	7.25	8	1000	1.9	<2	1.56	<0.5	4	11	28	1.80	2.29	0.65
CC08429		0.56	<0.5	8.64	11	720	4.8	<2	0.63	1.2	5	10	34	7.34	3.48	0.86
CC08430		0.50	<0.5	8.21	17	750	5.4	<2	0.54	<0.5	5	16	27	9.10	3.41	0.93



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CERTIFICATE OF ANALYSIS VA04047159

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08415		391	10	1.49	50	970	36	0.03	<5	164	0.19	233	<10	158
CC08416		559	12	0.70	66	1240	38	0.03	<5	78	0.18	276	30	249
CC08417		453	11	1.20	48	1020	18	0.03	<5	148	0.23	219	<10	169
CC08418		732	11	1.36	22	1100	11	0.03	<5	89	0.40	108	<10	81
CC08419		1395	17	1.60	17	940	19	0.03	<5	155	0.34	72	<10	125
CC08420		1260	28	0.55	14	540	920	0.36	11	80	0.21	21	<10	1970
CC08421		570	16	1.77	42	1420	67	0.07	<5	310	0.22	130	<10	447
CC08422		1000	4	0.51	47	1090	225	0.10	<5	105	0.24	108	<10	1055
CC08423		1735	6	0.45	59	1080	455	0.10	<5	75	0.29	116	<10	1665
CC08424		585	18	1.34	30	1160	45	0.06	<5	241	0.21	164	<10	186
CC08425		674	33	0.65	85	1310	70	0.06	<5	58	0.17	248	<10	491
CC08426		575	15	0.92	62	1190	43	0.04	<5	83	0.20	237	<10	270
CC08427		965	12	1.77	8	1180	8	0.06	<5	268	0.75	29	20	92
CC08428		328	9	2.70	16	300	11	0.01	<5	488	0.25	71	<10	65
CC08429		2300	24	1.44	11	920	106	0.03	<5	109	0.32	34	<10	404
CC08430		2250	15	1.40	12	1010	54	0.04	5	78	0.40	44	<10	300

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P.O. No.:

This report is for 200 Soil samples submitted to our lab in Vancouver, BC, Canada on 21-JUL-2004.

The following have access to data associated with this certificate:

AL ARCHER
JOAN MARIACHERROB CARNE
VANCOUVER OFFICEDOUG EATON
BILL WENGZYNOWSKI**SAMPLE PREPARATION**

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	27 element four acid ICP-AES	ICP-AES

To: EP

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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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LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: EP-GUANO

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Finalized Date: 9-AUG-2004
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CERTIFICATE OF ANALYSIS VA04047158

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08001		0.32	0.6	8.10	20	850	1.6	<2	1.46	<0.5	4	19	26	2.50	2.20	0.57
CC08002		0.30	<0.5	7.89	36	820	1.5	<2	1.20	<0.5	3	31	15	1.98	2.20	0.49
CC08003		0.28	<0.5	7.87	6	860	1.3	2	1.95	<0.5	5	6	19	1.99	2.35	0.62
CC08004		0.40	<0.5	8.10	12	810	1.5	<2	1.20	<0.5	2	29	16	1.68	2.34	0.42
CC08005		0.46	<0.5	7.39	18	930	2.7	<2	3.74	<0.5	12	45	27	4.11	2.78	1.36
CC08006		0.36	<0.5	9.12	15	650	2.4	2	0.25	<0.5	12	75	12	4.92	2.56	1.04
CC08007		0.28	<0.5	6.92	5	770	1.1	<2	2.51	<0.5	5	6	19	1.68	1.99	0.56
CC08008		0.42	0.8	7.70	11	780	1.4	<2	1.34	<0.5	3	21	14	1.64	2.16	0.48
CC08009		0.34	<0.5	7.63	8	860	1.2	2	1.72	<0.5	3	4	17	1.64	2.39	0.51
CC08010		0.34	<0.5	7.75	8	810	1.4	<2	1.77	<0.5	4	18	15	1.92	2.25	0.65
CC08011		0.32	0.5	7.71	6	840	1.2	2	2.00	<0.5	4	7	22	1.92	2.26	0.66
CC08012		0.32	0.7	9.28	331	760	2.6	3	1.46	0.9	17	75	109	4.76	2.62	0.59
CC08013		0.30	1.1	7.38	69	740	1.3	<2	1.53	<0.5	8	23	37	2.99	2.01	0.63
CC08014		0.34	1.2	7.82	24	770	1.3	<2	2.05	<0.5	7	14	22	2.79	2.12	0.80
CC08015		0.36	<0.5	7.22	7	740	1.2	<2	1.88	<0.5	3	7	20	1.80	2.04	0.58
CC08016		0.28	1.1	7.15	15	750	1.2	2	1.58	<0.5	4	13	23	1.80	2.25	0.55
CC08017		0.44	<0.5	10.65	48	2020	2.9	<2	0.50	<0.5	14	83	42	3.94	2.43	0.23
CC08018		0.24	<0.5	7.86	9	680	1.2	<2	2.32	0.6	7	13	29	2.42	1.94	0.88
CC08019		0.40	<0.5	7.04	29	730	1.2	<2	1.61	<0.5	4	4	18	1.57	2.24	0.49
CC08020		0.34	<0.5	7.37	233	740	1.2	2	2.08	<0.5	5	6	17	2.04	2.06	0.64
CC08021		0.36	<0.5	6.81	30	970	3.6	<2	1.20	<0.5	3	25	18	3.85	2.07	1.24
CC08022		0.42	<0.5	7.32	12	760	3.0	2	0.85	<0.5	<1	15	9	2.36	2.12	0.82
CC08023		0.20	<0.5	7.15	10	800	1.3	<2	1.74	<0.5	4	11	14	1.80	2.16	0.63
CC08024		0.36	<0.5	8.17	28	800	1.9	<2	0.47	<0.5	<1	63	7	1.40	2.32	0.37
CC08025		0.38	<0.5	7.57	231	680	1.6	<2	0.80	<0.5	8	44	74	6.14	1.97	0.42
CC08026		0.36	<0.5	8.32	52	770	1.6	3	1.19	<0.5	5	37	29	3.42	2.25	0.57
CC08027		0.30	<0.5	9.04	99	800	2.2	2	0.86	<0.5	14	71	55	5.06	2.04	0.78
CC08028		Not Recvd														
CC08029		0.32	<0.5	7.33	37	870	1.8	2	1.08	<0.5	4	30	19	2.82	2.35	0.66
CC08030		0.28	<0.5	7.30	14	900	1.7	<2	1.51	<0.5	3	21	15	2.16	2.13	0.73
CC08031		0.32	0.5	8.25	73	820	2.1	<2	0.63	<0.5	3	69	20	2.67	2.47	0.50
CC08032		0.26	<0.5	8.12	125	720	1.9	3	0.41	<0.5	3	86	16	2.94	2.21	0.41
CC08033		0.26	0.6	8.77	670	590	2.3	3	0.77	1.3	32	88	201	5.59	2.54	0.35
CC08034		0.42	0.5	7.58	230	790	1.4	<2	1.32	<0.5	7	29	39	3.50	2.17	0.56
CC08035		0.48	0.5	9.78	52	1100	2.6	<2	1.32	0.5	9	84	32	3.73	2.13	0.34
CC08036		0.64	0.5	11.70	44	1340	3.2	<2	2.85	2.0	22	99	44	4.66	2.33	0.23
CC08037		0.34	<0.5	7.40	6	800	1.4	<2	1.50	0.5	2	16	15	1.57	2.32	0.50
CC08038		0.34	<0.5	7.59	14	840	1.3	2	1.66	<0.5	5	15	20	1.94	2.37	0.54
CC08039		0.34	<0.5	7.47	28	740	1.7	2	0.90	<0.5	4	45	16	1.76	2.63	0.42
CC08040		0.28	2.0	4.71	5260	330	1.1	11	1.15	0.5	76	32	407	16.75	1.50	0.33



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CERTIFICATE OF ANALYSIS VA04047158

Method Analyte Units LOR	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sr ppm 1	ME-ICP61 Ti % 0.01	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
Sample Description													
CC08001	340	2	2.39	13	850	20	0.03	<5	468	0.25	72	<10	74
CC08002	277	2	2.11	7	600	12	0.02	<5	412	0.30	120	<10	49
CC08003	392	1	3.05	7	420	7	0.01	<5	610	0.25	51	<10	53
CC08004	279	2	2.44	5	520	8	0.01	<5	474	0.29	106	<10	39
CC08005	465	2	1.00	23	1110	17	0.03	<5	123	0.32	79	<10	92
CC08006	543	<1	0.36	26	830	23	0.02	<5	104	0.24	72	<10	202
CC08007	513	1	2.65	4	610	7	0.05	<5	552	0.21	38	<10	74
CC08008	290	2	2.36	5	540	8	0.02	<5	480	0.28	84	<10	43
CC08009	368	1	3.03	3	330	8	0.01	<5	585	0.21	37	<10	48
CC08010	353	1	2.68	5	410	8	0.02	<5	559	0.29	97	<10	52
CC08011	384	4	2.97	8	420	12	0.02	<5	612	0.25	50	<10	56
CC08012	540	8	1.19	46	1250	87	0.08	<5	260	0.32	288	<10	214
CC08013	373	3	2.18	16	920	22	0.03	<5	460	0.27	108	<10	73
CC08014	404	1	2.77	6	650	12	0.02	<5	597	0.35	94	<10	59
CC08015	347	1	2.75	5	890	7	0.04	<5	561	0.22	46	<10	51
CC08016	328	3	2.64	7	890	9	0.01	<5	535	0.24	90	<10	48
CC08017	322	1	1.41	49	520	25	0.02	<5	399	0.23	118	<10	134
CC08018	405	1	2.83	9	1120	9	0.04	<5	671	0.30	98	<10	76
CC08019	327	1	2.94	3	550	8	0.02	<5	564	0.20	37	<10	46
CC08020	378	<1	2.73	5	630	8	0.03	<5	575	0.25	49	<10	48
CC08021	373	5	2.22	16	760	16	0.07	<5	159	0.30	97	<10	131
CC08022	198	3	3.08	6	530	10	0.01	<5	213	0.35	78	<10	44
CC08023	343	1	2.65	4	580	6	0.01	<5	536	0.28	67	<10	46
CC08024	112	3	1.24	7	670	12	0.01	<5	215	0.39	278	<10	27
CC08025	253	5	1.59	39	1250	30	0.03	6	352	0.32	146	<10	176
CC08026	303	4	2.21	22	600	20	0.02	<5	483	0.29	126	<10	92
CC08027	486	6	1.34	49	760	39	0.03	<5	338	0.29	154	<10	179
CC08028													
CC08029	340	5	1.97	10	560	16	0.01	<5	314	0.32	142	<10	69
CC08030	314	4	2.29	7	640	12	0.02	<5	398	0.28	97	<10	59
CC08031	200	9	1.10	20	960	14	0.02	<5	215	0.37	311	<10	68
CC08032	245	9	0.60	16	860	22	0.02	<5	125	0.41	367	<10	57
CC08033	758	6	0.60	68	1180	128	0.06	8	162	0.29	375	<10	222
CC08034	355	6	2.08	18	930	36	0.03	<5	423	0.26	147	<10	77
CC08035	207	2	1.30	39	760	21	0.05	5	360	0.32	162	<10	150
CC08036	552	3	1.51	73	520	28	0.03	6	459	0.33	132	<10	192
CC08037	315	1	2.48	4	460	7	0.03	<5	491	0.25	73	<10	57
CC08038	362	2	2.64	7	630	7	0.02	<5	525	0.26	75	<10	61
CC08039	257	2	1.54	8	570	10	0.02	<5	291	0.35	110	<10	44
CC08040	3770	1	0.63	106	1040	144	0.16	16	148	0.11	46	<10	487



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Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
Sample Description															
CC08041	0.30	<0.5	7.33	18	760	1.7	<2	1.28	<0.5	2	10	14	1.82	2.17	0.56
CC08042	0.40	<0.5	8.44	16	880	1.8	2	1.30	<0.5	3	26	15	1.82	2.55	0.55
CC08043	0.40	<0.5	7.37	28	1150	1.4	<2	1.33	<0.5	3	20	20	2.24	2.32	0.62
CC08044	0.44	0.7	7.19	6	770	1.3	<2	1.40	<0.5	3	10	18	1.64	2.21	0.49
CC08045	0.32	<0.5	7.28	7	780	1.2	<2	1.62	<0.5	4	6	17	1.72	2.23	0.53
CC08046	0.44	0.6	8.49	148	880	3.2	3	0.56	0.5	28	70	112	6.17	2.23	0.89
CC08047	0.38	<0.5	8.50	12	990	2.2	<2	5.13	<0.5	14	70	22	3.34	3.32	0.86
CC08048	0.28	<0.5	7.48	20	920	1.9	<2	1.34	<0.5	10	34	20	3.01	2.24	1.05
CC08049	0.36	<0.5	8.50	18	1190	2.5	<2	6.68	1.0	18	64	38	3.77	2.84	1.54
CC08050	0.40	0.6	8.07	62	830	1.7	<2	1.27	<0.5	7	38	33	3.15	2.39	0.55
CC08051	0.34	<0.5	8.56	96	750	1.8	2	0.64	<0.5	8	69	28	3.41	2.22	0.48
CC08052	0.28	<0.5	7.82	11	850	1.7	<2	1.02	<0.5	1	41	11	1.36	2.50	0.49
CC08053	0.28	<0.5	7.08	10	710	1.2	<2	2.10	<0.5	4	9	28	1.68	2.02	0.52
CC08054	0.38	<0.5	6.70	61	530	1.9	<2	1.99	0.5	9	35	46	2.65	1.96	0.63
CC08055	0.34	<0.5	7.20	110	720	1.3	<2	1.34	<0.5	5	28	25	2.47	2.11	0.50
CC08056	0.36	<0.5	7.14	73	650	1.2	<2	1.98	<0.5	6	11	23	2.15	1.90	0.55
CC08057	0.46	0.5	6.41	3080	480	1.9	<2	1.78	<0.5	28	56	349	11.50	2.16	0.57
CC08058	0.42	0.7	7.79	28	730	1.6	<2	1.79	<0.5	7	25	164	2.54	2.37	0.52
CC08059	0.22	<0.5	3.72	12	380	0.6	<2	3.98	<0.5	2	5	39	0.92	1.05	0.39
CC08060	0.26	<0.5	6.08	15	590	1.2	<2	2.39	<0.5	5	23	31	2.16	1.67	0.48
CC08061	0.32	<0.5	7.41	5	680	2.2	<2	1.02	<0.5	1	6	10	1.40	1.88	0.74
CC08062	0.32	<0.5	7.33	11	780	1.7	<2	1.27	<0.5	2	7	12	1.75	2.17	0.57
CC08063	0.34	<0.5	7.44	15	810	1.7	<2	1.82	<0.5	3	7	19	2.43	2.24	0.65
CC08064	0.46	0.8	8.74	116	710	1.9	<2	0.70	<0.5	5	60	29	3.31	2.26	0.51
CC08065	0.36	<0.5	7.66	64	760	1.5	2	1.46	<0.5	6	24	32	2.70	2.25	0.60
CC08066	0.28	<0.5	7.69	17	820	1.3	2	1.72	<0.5	5	12	20	2.20	2.23	0.60
CC08067	0.28	<0.5	7.38	16	790	1.3	<2	1.61	<0.5	3	9	19	1.80	2.23	0.51
CC08068	0.36	<0.5	7.45	11	830	1.2	<2	2.00	<0.5	4	4	16	1.80	2.18	0.58
CC08069	0.30	<0.5	9.19	17	870	2.5	2	5.31	<0.5	20	81	31	3.76	3.60	1.05
CC08070	0.28	<0.5	7.09	22	880	1.9	<2	1.64	<0.5	7	14	22	2.35	2.09	0.71
CC08071	0.26	0.5	6.55	128	850	3.3	3	1.06	0.7	22	57	66	5.72	1.90	1.45
CC08072	0.28	<0.5	7.33	67	770	1.6	<2	1.10	<0.5	3	34	19	2.20	2.12	0.46
CC08073	0.34	<0.5	7.44	14	810	1.6	2	1.39	<0.5	3	27	14	1.73	2.05	0.50
CC08074	0.28	<0.5	7.24	7	820	1.2	<2	1.86	<0.5	4	5	16	1.92	2.14	0.60
CC08075	0.32	<0.5	7.45	100	790	2.5	<2	1.82	<0.5	7	37	33	3.17	2.00	0.74
CC08076	0.18	<0.5	6.85	6	660	1.2	<2	3.38	<0.5	5	12	25	2.17	1.97	0.63
CC08077	0.30	<0.5	7.46	29	550	1.8	<2	1.40	<0.5	9	43	24	4.28	2.45	0.45
CC08078	0.26	<0.5	6.47	21	540	1.4	2	2.51	<0.5	5	27	35	2.39	1.74	0.63
CC08079	0.02	<0.5	7.04	9	700	1.4	<2	1.51	<0.5	4	13	21	1.84	2.10	0.47
CC08080	0.26	<0.5	6.73	8	740	1.2	<2	1.75	<0.5	3	7	21	1.44	1.95	0.40



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Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08041		290	2	3.00	5	540	11	0.01	<5	421	0.29	64	<10	41
CC08042		286	3	2.67	6	600	7	0.01	<5	476	0.32	133	<10	46
CC08043		305	5	2.39	13	530	15	0.02	<5	453	0.24	140	<10	94
CC08044		314	2	2.63	3	810	12	0.03	<5	499	0.23	56	<10	47
CC08045		340	1	2.84	2	520	9	0.02	<5	552	0.23	48	<10	47
CC08046		551	12	0.99	78	830	118	0.04	<5	190	0.23	214	<10	256
CC08047		419	<1	0.26	31	590	12	0.01	<5	278	0.31	72	<10	77
CC08048		354	2	1.64	17	650	100	0.03	<5	329	0.32	88	<10	220
CC08049		645	<1	0.39	30	1020	158	0.05	<5	230	0.42	94	<10	485
CC08050		411	6	2.15	25	1000	18	0.02	<5	423	0.26	182	<10	79
CC08051		201	8	1.20	31	900	12	0.01	6	279	0.38	292	<10	75
CC08052		245	2	1.88	6	540	6	0.01	<5	363	0.32	180	<10	37
CC08053		408	1	2.49	7	1000	6	0.06	<5	508	0.23	53	<10	58
CC08054		315	1	1.41	25	1460	17	0.13	<5	313	0.25	80	<10	104
CC08055		323	4	2.10	9	880	33	0.03	<5	431	0.25	144	<10	59
CC08056		400	1	2.26	7	650	12	0.06	<5	471	0.24	51	<10	62
CC08057		1635	1	0.63	50	970	27	0.17	13	144	0.16	82	<10	77
CC08058		317	1	2.22	18	820	10	0.05	<5	438	0.23	48	<10	58
CC08059		273	<1	1.32	8	1260	4	0.20	<5	321	0.10	19	<10	36
CC08060		501	1	1.65	11	1470	10	0.12	<5	347	0.22	49	<10	69
CC08061		206	2	3.67	2	510	6	0.01	<5	362	0.28	38	<10	40
CC08062		264	2	3.27	5	400	7	0.01	<5	409	0.28	47	<10	38
CC08063		385	3	2.75	4	650	11	0.03	<5	526	0.24	49	<10	59
CC08064		191	6	1.49	24	600	22	0.02	<5	316	0.27	276	<10	83
CC08065		320	4	2.39	15	600	15	0.01	<5	505	0.26	121	<10	70
CC08066		355	2	2.81	7	570	7	0.01	<5	578	0.26	64	<10	57
CC08067		338	1	2.83	5	370	8	0.01	<5	567	0.22	52	<10	52
CC08068		391	1	2.87	4	340	5	0.01	<5	581	0.23	47	<10	52
CC08069		646	<1	0.33	34	780	15	0.07	<5	220	0.36	80	<10	44
CC08070		590	2	2.41	9	650	16	0.03	<5	463	0.25	67	<10	82
CC08071		830	6	0.84	53	1020	103	0.04	5	115	0.28	159	<10	162
CC08072		273	5	1.85	10	460	7	0.01	<5	362	0.31	153	<10	56
CC08073		282	3	2.07	7	530	8	0.02	<5	420	0.30	118	<10	42
CC08074		375	1	2.75	3	470	7	0.02	<5	554	0.25	53	<10	49
CC08075		438	3	1.80	17	1950	24	0.08	<5	354	0.27	122	<10	121
CC08076		633	1	2.31	7	1000	11	0.07	<5	493	0.23	51	<10	71
CC08077		745	1	1.16	21	920	35	0.05	<5	254	0.26	68	<10	64
CC08078		359	4	1.60	20	1490	7	0.16	<5	381	0.25	56	<10	94
CC08079		353	1	2.33	8	720	7	0.06	<5	457	0.21	37	<10	43
CC08080		332	1	2.41	4	860	6	0.06	<5	468	0.17	28	<10	44



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CERTIFICATE OF ANALYSIS VA04047158

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08081		0.40	<0.5	7.20	55	710	2.7	<2	0.54	<0.5	1	18	13	4.72	2.14	0.69
CC08082		0.34	<0.5	7.72	21	760	1.6	2	1.46	<0.5	4	24	14	2.55	2.15	0.66
CC08083		0.44	<0.5	7.18	20	770	2.0	<2	0.60	<0.5	<1	30	9	2.41	2.37	0.45
CC08084		0.20	<0.5	6.16	12	710	1.2	<2	1.92	<0.5	4	6	26	1.34	1.64	0.47
CC08085		0.24	<0.5	7.13	9	830	1.3	<2	2.17	<0.5	4	7	17	2.00	1.91	0.68
CC08086		0.62	<0.5	6.51	15	1240	3.3	<2	2.15	<0.5	8	35	32	2.55	2.03	1.56
CC08087		0.24	<0.5	7.33	18	780	1.5	<2	1.53	<0.5	3	25	13	2.05	1.99	0.64
CC08088		0.32	<0.5	7.41	<5	800	1.2	<2	1.94	<0.5	5	7	15	1.95	2.15	0.66
CC08089		0.42	<0.5	7.29	38	820	1.7	<2	0.93	<0.5	8	43	24	2.83	2.14	0.70
CC08090		0.26	<0.5	7.05	<5	780	1.1	<2	1.87	<0.5	4	4	15	1.71	2.11	0.59
CC08091		0.22	<0.5	7.17	6	780	1.3	<2	1.38	<0.5	2	17	14	1.54	2.28	0.52
CC08092		0.34	<0.5	6.72	64	1130	3.3	<2	1.63	<0.5	18	65	50	4.66	1.92	2.02
CC08093		0.36	0.5	7.78	63	1200	4.6	2	2.16	0.7	12	61	69	4.43	2.02	1.94
CC08094		0.34	0.9	7.02	108	760	1.3	<2	1.40	<0.5	5	22	27	2.34	2.08	0.56
CC08095		0.32	<0.5	7.80	22	720	1.6	<2	1.72	<0.5	6	25	22	2.35	2.41	0.54
CC08096		0.22	<0.5	7.17	18	670	1.6	<2	1.07	<0.5	3	36	15	1.90	2.37	0.47
CC08097		0.28	<0.5	7.72	180	560	2.1	3	1.34	<0.5	10	72	26	5.14	2.17	0.46
CC08098		0.26	<0.5	7.31	6	760	1.2	<2	2.18	<0.5	5	7	16	2.00	1.98	0.67
CC08099		0.38	<0.5	6.99	16	690	1.6	<2	1.28	<0.5	4	56	16	2.50	2.24	0.51
CC08100		0.26	<0.5	6.91	20	720	1.5	<2	1.68	<0.5	5	25	24	2.39	1.99	0.40
CC08101		0.28	<0.5	7.29	21	760	1.2	<2	2.17	<0.5	7	5	21	2.05	2.01	0.71
CC08102		0.28	<0.5	5.36	21	400	2.8	<2	2.01	0.8	5	28	33	2.18	1.75	1.02
CC08103		0.32	<0.5	6.33	38	1350	3.6	2	1.52	<0.5	6	34	33	5.48	2.21	1.17
CC08104		0.28	<0.5	6.66	14	900	1.8	<2	1.76	<0.5	4	10	28	2.33	1.98	0.60
CC08105		0.28	<0.5	6.67	7	730	1.2	<2	2.18	<0.5	5	5	18	1.94	1.89	0.67
CC08106		0.38	0.5	7.37	10	840	1.3	<2	1.74	<0.5	3	7	15	1.67	2.20	0.57
CC08107		0.38	0.5	7.27	29	840	1.6	<2	1.57	<0.5	6	29	25	2.46	2.13	0.80
CC08108		0.26	<0.5	7.15	6	860	1.5	<2	1.04	<0.5	1	22	11	1.15	2.29	0.36
CC08109		0.28	<0.5	6.88	24	530	1.7	<2	1.92	<0.5	4	40	15	2.96	1.89	2.00
CC08110		0.20	<0.5	7.46	<5	930	1.3	<2	1.64	<0.5	4	8	16	1.66	2.31	0.46
CC08111		0.22	<0.5	7.86	6	920	1.3	<2	1.94	<0.5	5	5	16	1.89	2.28	0.57
CC08112		0.30	<0.5	8.39	24	950	1.8	<2	0.60	<0.5	4	61	13	2.03	2.40	0.63
CC08113		0.28	<0.5	7.62	104	1350	4.4	<2	1.15	<0.5	14	73	93	5.33	2.13	1.95
CC08114		0.56	0.5	9.32	176	650	2.8	<2	0.20	0.5	25	123	152	5.04	2.46	0.20
CC08115		0.28	0.6	7.61	<5	870	1.3	<2	1.74	<0.5	4	5	17	1.59	2.18	0.48
CC08116		0.22	<0.5	8.10	14	750	1.6	<2	1.48	<0.5	9	33	25	2.97	2.33	0.63
CC08117		0.26	0.9	7.69	94	660	1.8	<2	0.58	<0.5	9	76	66	4.03	2.13	0.51
CC08118		0.22	<0.5	6.38	30	640	1.2	<2	2.41	<0.5	6	23	23	2.05	1.65	0.50
CC08119		0.18	0.8	6.68	20	740	1.3	<2	1.54	<0.5	6	23	27	2.74	1.78	0.57
CC08120		0.20	<0.5	6.30	177	650	1.5	<2	2.55	<0.5	7	37	86	2.67	1.73	0.53



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CERTIFICATE OF ANALYSIS VA04047158

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08081		266	6	2.17	8	870	25	0.03	<5	129	0.38	71	<10	56
CC08082		296	2	2.37	7	540	11	0.02	<5	433	0.32	122	<10	46
CC08083		236	3	2.00	4	590	9	0.02	<5	178	0.35	120	10	32
CC08084		270	19	2.11	12	630	7	0.57	<5	430	0.18	34	<10	68
CC08085		360	1	2.56	7	510	8	0.06	<5	532	0.24	54	<10	61
CC08086		355	5	1.80	27	880	16	0.08	<5	276	0.25	124	<10	160
CC08087		291	4	2.08	6	660	10	0.04	<5	423	0.26	114	<10	54
CC08088		376	1	2.87	5	510	8	0.01	<5	590	0.27	55	<10	49
CC08089		425	3	1.49	19	710	26	0.02	<5	266	0.31	116	<10	69
CC08090		356	1	2.80	3	310	8	0.01	<5	580	0.23	44	<10	46
CC08091		295	2	2.41	2	340	6	0.01	<5	468	0.26	70	<10	41
CC08092		679	3	0.95	44	1160	64	0.02	<5	138	0.31	172	<10	152
CC08093		473	4	1.31	51	970	55	0.04	<5	272	0.29	186	<10	232
CC08094		314	3	2.16	13	650	8	0.01	<5	429	0.27	122	<10	75
CC08095		442	1	2.12	18	660	10	0.04	<5	442	0.26	54	<10	61
CC08096		248	1	1.72	10	570	6	0.01	<5	355	0.33	96	<10	41
CC08097		1210	2	0.69	29	1740	35	0.07	<5	166	0.29	134	<10	79
CC08098		383	1	2.67	5	910	7	0.02	<5	581	0.24	52	<10	52
CC08099		310	<1	1.42	14	830	11	0.04	<5	267	0.33	77	<10	40
CC08100		458	1	1.94	9	1170	14	0.08	<5	369	0.22	45	<10	49
CC08101		387	8	2.83	8	520	10	0.25	<5	604	0.27	48	<10	73
CC08102		191	10	1.38	26	820	20	1.19	<5	143	0.23	91	<10	179
CC08103		537	7	1.66	24	970	21	0.12	<5	148	0.29	110	10	211
CC08104		369	4	2.41	10	770	11	0.09	<5	445	0.20	49	<10	74
CC08105		499	2	2.60	8	770	4	0.07	<5	554	0.23	47	<10	66
CC08106		352	1	2.77	5	410	7	0.01	<5	545	0.23	49	<10	48
CC08107		325	2	2.03	16	480	29	0.03	<5	402	0.28	94	<10	69
CC08108		252	1	2.08	3	350	6	0.01	<5	373	0.26	68	<10	35
CC08109		323	3	1.00	12	860	14	0.01	<5	186	0.35	119	<10	88
CC08110		370	3	2.84	5	290	11	0.01	<5	537	0.22	43	<10	48
CC08111		402	2	3.08	8	540	14	0.01	<5	617	0.25	43	<10	50
CC08112		182	6	1.15	12	670	8	0.01	<5	210	0.42	191	<10	32
CC08113		632	9	1.03	55	950	95	0.02	5	140	0.33	229	<10	184
CC08114		672	13	0.33	85	770	26	0.03	7	116	0.27	265	<10	160
CC08115		359	2	2.94	2	560	13	0.02	<5	586	0.19	33	10	45
CC08116		397	2	2.09	23	940	11	0.03	<5	442	0.31	70	<10	58
CC08117		232	9	0.83	37	1260	27	0.04	<5	171	0.35	247	10	91
CC08118		470	4	1.81	13	1980	12	0.15	<5	396	0.23	120	10	80
CC08119		414	6	2.13	13	1650	17	0.06	<5	450	0.28	105	<10	47
CC08120		726	1	1.55	19	1820	19	0.16	<5	324	0.21	50	<10	74



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08121		0.38	<0.5	7.89	7	910	1.3	<2	1.90	<0.5	4	5	18	1.91	2.20	0.56
CC08122		0.38	<0.5	8.11	6	890	1.3	<2	2.05	<0.5	6	5	18	1.88	2.13	0.60
CC08123		0.30	<0.5	7.38	6	880	1.2	<2	2.08	<0.5	5	4	24	1.48	1.97	0.48
CC08124		0.32	<0.5	7.91	<5	910	1.4	<2	2.22	<0.5	5	6	20	1.96	2.20	0.62
CC08125		0.18	<0.5	0.97	<5	540	0.6	<2	4.37	2.2	2	6	19	0.49	0.20	0.30
CC08126		0.34	<0.5	7.34	8	1000	1.6	<2	1.87	<0.5	4	11	17	2.04	2.20	0.67
CC08127		0.42	<0.5	6.75	57	930	1.7	<2	1.46	<0.5	9	48	28	3.24	1.86	1.15
CC08128		0.30	<0.5	7.71	6	920	1.4	<2	1.56	<0.5	4	21	14	1.72	2.19	0.57
CC08129		0.32	<0.5	7.60	39	780	1.6	<2	1.00	<0.5	9	39	23	3.02	2.29	0.50
CC08130		0.28	<0.5	8.11	9	920	1.4	<2	1.64	<0.5	6	18	17	1.94	2.34	0.55
CC08131		0.30	<0.5	8.00	7	890	1.3	<2	2.06	<0.5	5	9	19	2.06	2.20	0.60
CC08132		0.22	0.8	8.10	15	900	1.4	<2	1.67	<0.5	8	12	28	2.22	2.20	0.55
CC08133		0.28	<0.5	7.31	53	1040	1.9	<2	2.00	0.5	16	56	47	3.86	1.96	1.40
CC08134		0.30	1.0	7.86	429	860	2.2	<2	1.01	1.2	11	80	76	3.24	2.15	0.84
CC08135		0.28	0.8	7.42	72	870	1.3	<2	1.50	<0.5	3	19	17	1.72	2.17	0.43
CC08136		0.14	<0.5	7.50	11	860	1.3	<2	1.63	<0.5	4	11	16	1.88	2.26	0.51
CC08137		0.26	<0.5	5.45	38	420	1.4	<2	4.15	1.4	11	46	24	2.79	1.72	0.60
CC08138		0.30	<0.5	7.78	34	610	1.7	<2	0.46	<0.5	4	73	37	2.38	1.58	0.32
CC08139		0.36	<0.5	8.05	27	780	1.8	<2	1.80	<0.5	6	39	22	2.78	2.29	0.69
CC08140		0.24	<0.5	7.08	24	700	2.3	<2	1.10	<0.5	7	75	22	4.51	1.98	0.71
CC08141		0.12	0.6	2.23	6	330	1.4	<2	1.88	1.7	2	10	44	2.58	0.46	0.34
CC08142		0.28	<0.5	7.37	9	830	1.5	<2	1.90	<0.5	6	7	23	2.06	2.06	0.57
CC08143		0.28	<0.5	7.08	7	1170	2.7	<2	0.79	<0.5	4	19	17	3.38	2.73	0.77
CC08144		0.26	<0.5	6.16	38	1410	3.3	<2	2.11	0.6	8	34	52	4.44	1.78	1.60
CC08145		0.26	<0.5	6.32	34	1360	3.1	<2	2.04	<0.5	8	28	39	3.19	1.94	1.52
CC08146		0.64	<0.5	5.42	28	2290	7.8	<2	5.57	<0.5	17	40	67	4.60	1.70	5.71
CC08147		0.16	<0.5	5.74	28	890	4.8	<2	3.25	<0.5	11	16	34	2.90	1.36	2.37
CC08148		0.18	<0.5	7.60	9	860	1.4	<2	1.43	<0.5	4	12	15	1.48	2.31	0.48
CC08149		0.26	<0.5	7.30	5	830	1.2	<2	1.78	<0.5	6	6	16	1.82	2.09	0.54
CC08150		0.24	<0.5	7.96	11	840	1.6	<2	1.46	<0.5	6	26	18	3.01	2.22	0.55
CC08151		0.28	<0.5	7.84	8	910	1.3	<2	2.05	<0.5	5	5	17	1.91	2.18	0.59
CC08152		0.30	<0.5	7.89	26	1180	1.7	<2	1.18	<0.5	7	38	19	3.05	2.23	0.64
CC08153		0.30	<0.5	7.19	21	780	1.5	<2	1.98	<0.5	9	33	20	2.82	1.89	0.61
CC08154		0.18	<0.5	6.91	21	800	1.4	<2	1.78	<0.5	6	26	22	2.28	1.73	0.54
CC08155		0.28	<0.5	7.16	16	810	1.2	<2	1.73	<0.5	6	14	19	2.25	1.94	0.52
CC08156		0.28	<0.5	7.74	39	880	1.3	<2	1.69	<0.5	6	16	23	2.41	2.20	0.53
CC08157		0.40	<0.5	10.85	57	790	2.8	<2	0.64	11.2	43	79	47	5.78	3.80	0.32
CC08158		0.18	0.5	7.29	<5	820	1.3	<2	1.89	<0.5	8	9	18	2.07	2.20	0.60
CC08159		0.24	<0.5	7.15	17	750	1.4	<2	1.65	0.9	8	26	21	2.71	1.78	0.63
CC08160		0.22	<0.5	6.94	36	740	2.0	<2	1.51	1.1	10	52	17	3.81	2.22	0.55



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CERTIFICATE OF ANALYSIS VA04047158

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08121		391	2	2.94	3	650	12	0.02	<5	585	0.24	41	<10	49
CC08122		404	3	2.96	4	650	12	0.06	<5	605	0.24	41	<10	48
CC08123		346	11	2.67	9	690	6	0.23	<5	539	0.18	29	<10	59
CC08124		414	2	3.10	4	530	8	0.04	<5	633	0.24	42	<10	66
CC08125		309	2	0.19	23	1220	2	0.34	<5	98	0.03	12	<10	79
CC08126		391	4	2.74	6	370	7	0.02	<5	529	0.24	59	<10	64
CC08127		374	3	1.55	24	800	39	0.02	<5	287	0.30	122	<10	77
CC08128		316	2	2.38	4	600	16	0.02	<5	484	0.30	75	<10	40
CC08129		339	5	1.80	21	690	20	0.02	<5	344	0.29	107	<10	58
CC08130		376	4	2.71	8	780	13	0.02	<5	536	0.27	62	<10	46
CC08131		643	2	2.87	4	520	12	0.02	<5	588	0.26	51	<10	51
CC08132		511	2	2.80	9	740	20	0.02	<5	544	0.23	53	<10	52
CC08133		1000	4	1.37	42	1340	63	0.05	<5	283	0.29	148	<10	118
CC08134		166	5	0.73	44	1280	96	0.37	5	184	0.31	241	<10	210
CC08135		327	3	2.54	7	760	10	0.02	<5	498	0.23	82	<10	42
CC08136		394	2	2.71	4	400	11	0.01	<5	532	0.24	51	<10	48
CC08137		1550	2	0.47	30	1760	22	0.20	7	158	0.18	57	<10	157
CC08138		158	16	0.94	26	990	20	0.03	6	232	0.30	366	<10	142
CC08139		355	3	2.00	15	850	17	0.05	<5	419	0.29	89	<10	55
CC08140		722	5	0.94	29	1740	28	0.08	<5	163	0.34	96	<10	72
CC08141		1165	41	0.18	13	2440	15	0.75	<5	53	0.07	18	<10	89
CC08142		410	2	2.67	10	630	13	0.08	<5	523	0.21	39	<10	102
CC08143		322	8	2.35	13	710	18	0.03	<5	231	0.31	78	10	114
CC08144		683	10	1.65	42	1150	19	0.10	<5	225	0.24	115	<10	510
CC08145		2410	9	1.78	32	1040	18	0.12	<5	263	0.20	103	<10	199
CC08146		684	4	0.89	45	1260	60	0.07	5	112	0.34	132	<10	393
CC08147		526	3	1.43	17	970	22	0.09	<5	292	0.25	52	<10	274
CC08148		326	2	2.71	4	320	8	0.01	<5	517	0.23	49	<10	44
CC08149		397	2	2.83	5	480	12	0.01	<5	569	0.22	39	<10	47
CC08150		552	3	2.11	8	1190	17	0.05	<5	413	0.25	64	<10	65
CC08151		398	2	3.00	4	560	14	0.01	<5	615	0.22	41	<10	49
CC08152		369	4	2.00	15	800	30	0.02	<5	382	0.29	95	<10	55
CC08153		386	4	1.68	17	950	35	0.08	<5	366	0.25	87	10	48
CC08154		453	3	1.82	15	1420	22	0.09	<5	394	0.23	103	<10	74
CC08155		441	3	2.37	9	910	35	0.04	<5	495	0.23	81	<10	58
CC08156		415	3	2.67	10	450	12	0.01	<5	541	0.30	63	<10	52
CC08157		1360	6	0.60	135	1170	162	0.04	10	165	0.25	85	<10	599
CC08158		392	2	2.75	6	720	10	0.01	<5	570	0.27	56	<10	59
CC08159		453	4	1.98	16	1260	21	0.07	<5	429	0.26	94	<10	84
CC08160		936	2	1.29	21	1520	200	0.09	<5	245	0.28	72	<10	243



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1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: EP-GUANO

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Total Pages: 6 (A - B)
Finalized Date: 9-AUG-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04047158

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 K % 0.01	ME-ICP61 Mg % 0.01
CC08161		0.46	<0.5	7.67	14	900	3.7	<2	0.56	<0.5	5	21	15	5.09	2.91	1.04
CC08162		0.40	<0.5	6.65	14	1340	3.4	<2	1.30	0.5	10	30	29	4.69	2.47	0.99
CC08163		0.26	<0.5	7.44	9	840	1.3	<2	1.98	<0.5	5	7	15	1.90	2.04	0.65
CC08164		0.26	<0.5	6.30	<5	1060	2.4	<2	2.11	0.9	6	18	21	2.37	1.63	0.87
CC08165		0.42	<0.5	6.65	<5	1210	2.1	<2	1.70	<0.5	3	23	15	2.04	1.92	1.00
CC08166		0.40	<0.5	6.18	35	1470	6.4	<2	4.02	<0.5	11	43	32	5.00	1.44	4.22
CC08167		0.24	<0.5	6.82	55	1110	2.7	<2	2.15	<0.5	10	47	22	3.99	1.76	1.99
CC08168		0.26	<0.5	6.12	251	850	2.8	3	3.62	0.7	20	51	48	5.47	1.54	3.60
CC08169		0.12	<0.5	2.12	35	500	0.8	<2	3.21	0.8	12	10	25	1.71	0.56	1.16
CC08170		0.22	<0.5	6.91	34	820	1.4	<2	1.84	<0.5	14	24	27	3.46	1.79	1.24
CC08171		0.38	0.6	8.12	78	1070	2.3	<2	0.91	<0.5	23	75	75	5.89	2.14	1.66
CC08172		0.28	<0.5	7.51	9	870	1.3	<2	1.70	<0.5	6	12	16	1.90	2.09	0.55
CC08173		0.34	<0.5	7.52	47	790	1.8	<2	1.20	0.7	19	41	48	4.91	2.07	0.90
CC08174		0.26	<0.5	8.18	33	950	1.8	<2	1.64	<0.5	6	25	20	2.46	2.11	0.65
CC08175		0.36	0.5	7.99	80	800	1.9	<2	0.66	<0.5	8	83	42	3.22	1.94	0.50
CC08176		0.18	<0.5	7.16	6	850	1.2	<2	1.62	<0.5	6	10	16	1.74	2.11	0.48
CC08177		0.18	<0.5	6.37	10	710	1.1	<2	3.04	3.7	5	12	18	1.68	1.63	0.56
CC08178		0.36	0.6	7.19	25	780	1.8	<2	1.72	1.5	7	61	48	2.84	1.60	0.89
CC08179		0.28	<0.5	6.63	31	760	1.6	<2	1.06	0.6	9	48	27	3.33	1.78	0.56
CC08180		0.26	<0.5	7.07	21	730	1.6	<2	1.50	<0.5	7	33	18	2.93	1.90	0.73
CC08181		0.20	<0.5	5.87	52	1040	3.2	<2	1.90	0.9	7	23	41	3.16	1.56	1.33
CC08182		0.22	<0.5	6.08	36	1380	3.9	<2	2.60	0.6	6	38	18	3.33	1.76	2.61
CC08183		0.38	<0.5	6.73	10	1390	2.7	<2	1.05	<0.5	3	35	15	2.40	1.92	0.85
CC08184		0.46	<0.5	6.42	22	1270	4.5	<2	3.24	0.6	8	30	18	3.76	1.64	2.98
CC08185		0.18	<0.5	5.37	20	960	3.8	<2	4.49	<0.5	6	21	19	3.58	1.38	4.06
CC08186		0.42	0.7	5.55	37	2080	4.9	<2	5.74	0.8	23	41	60	6.51	1.04	7.09
CC08187		0.24	<0.5	6.03	36	2090	3.2	<2	1.98	<0.5	6	51	16	3.71	1.70	2.42
CC08188		0.24	<0.5	6.79	7	1300	1.5	<2	1.77	1.0	7	23	16	2.67	1.90	1.04
CC08189		0.34	<0.5	6.48	53	2500	2.3	<2	0.81	0.6	11	72	22	5.32	2.12	1.55
CC08190		0.34	<0.5	3.61	81	640	1.4	9	5.93	<0.5	19	34	98	4.67	0.64	7.52
CC08191		0.42	<0.5	7.42	54	970	2.5	<2	0.79	<0.5	6	82	11	3.07	2.09	1.07
CC08192		0.30	<0.5	8.37	139	990	2.3	2	0.63	<0.5	16	80	57	5.08	2.28	0.79
CC08193		0.46	<0.5	8.70	70	1060	2.0	<2	0.54	<0.5	7	77	22	3.61	2.45	0.48
CC08194		0.34	1.1	9.79	117	1540	2.7	<2	0.53	<0.5	18	89	45	5.81	2.84	0.82
CC08195		0.54	0.6	9.69	67	1060	2.4	<2	0.94	0.5	15	96	46	4.52	2.37	0.53
CC08196		0.36	<0.5	9.55	84	880	2.0	<2	0.75	<0.5	7	77	26	2.93	2.77	0.37
CC08197		0.32	0.8	7.79	16	880	1.4	<2	1.50	<0.5	5	17	21	1.64	2.30	0.42
CC08198		0.36	1.3	7.89	195	820	2.2	<2	1.14	3.3	17	69	100	4.78	1.70	0.81
CC08199		0.20	<0.5	7.42	19	890	1.5	<2	2.10	<0.5	7	27	22	2.75	1.78	0.87
CC08200		0.30	<0.5	6.49	22	1000	1.7	<2	1.34	0.7	6	49	24	3.24	1.85	0.80



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CERTIFICATE OF ANALYSIS VA04047158

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2
CC08161		694	6	2.27	12	770	21	0.02	<5	77	0.44	52	20	126
CC08162		485	14	1.58	28	740	24	0.08	<5	119	0.29	94	10	192
CC08163		368	2	2.87	4	470	9	0.02	<5	601	0.24	49	<10	52
CC08164		933	7	1.92	15	1660	14	0.09	<5	377	0.21	72	<10	146
CC08165		316	4	2.22	11	760	15	0.02	<5	363	0.24	92	10	62
CC08166		755	4	0.96	29	1120	62	0.03	<5	162	0.34	182	<10	301
CC08167		615	5	1.12	20	1420	37	0.05	<5	216	0.29	164	10	153
CC08168		961	9	0.69	42	1580	70	0.07	7	152	0.26	139	<10	204
CC08169		371	3	0.55	14	1060	11	0.20	<5	135	0.07	25	<10	75
CC08170		603	2	1.91	14	1450	18	0.06	<5	395	0.24	71	<10	64
CC08171		831	5	0.72	61	960	71	0.04	<5	178	0.25	201	10	244
CC08172		444	2	2.58	8	750	7	0.02	<5	518	0.23	51	10	51
CC08173		1355	4	1.46	47	990	65	0.03	<5	303	0.24	112	<10	106
CC08174		348	3	2.15	10	1200	22	0.06	<5	450	0.26	73	<10	62
CC08175		272	15	0.97	38	1360	34	0.05	6	220	0.32	556	<10	115
CC08176		355	2	2.69	4	480	7	0.01	<5	526	0.22	66	<10	46
CC08177		406	2	2.13	8	1400	10	0.12	<5	471	0.20	63	<10	164
CC08178		278	4	1.28	34	1740	23	0.10	<5	271	0.27	244	<10	253
CC08179		918	8	1.37	21	1400	22	0.06	<5	288	0.30	186	<10	121
CC08180		447	3	1.83	13	1240	15	0.05	<5	376	0.27	73	<10	72
CC08181		394	20	1.56	50	1080	31	0.11	<5	255	0.22	85	10	258
CC08182		475	15	1.48	24	650	28	0.03	<5	187	0.33	156	10	157
CC08183		258	12	2.22	15	850	13	0.02	<5	256	0.28	134	10	70
CC08184		612	5	1.49	22	950	33	0.04	<5	246	0.35	129	<10	188
CC08185		585	3	1.25	20	840	17	0.03	<5	227	0.31	90	<10	156
CC08186		1105	4	0.32	59	1980	111	0.08	<5	82	0.26	153	<10	771
CC08187		683	7	0.84	25	2130	93	0.09	<5	153	0.28	354	<10	207
CC08188		695	4	2.05	10	1540	43	0.06	<5	418	0.26	158	10	102
CC08189		963	11	0.35	49	1620	223	0.06	9	81	0.30	520	<10	329
CC08190		714	3	0.61	35	1360	36	0.04	<5	98	0.18	67	<10	132
CC08191		294	4	0.64	20	1150	26	0.03	<5	130	0.38	205	<10	69
CC08192		715	5	0.93	42	1260	89	0.04	5	222	0.28	176	10	125
CC08193		455	5	1.11	24	1110	32	0.02	8	247	0.35	218	<10	69
CC08194		951	2	0.72	46	930	275	0.05	6	195	0.33	122	<10	144
CC08195		464	5	0.63	51	830	106	0.06	5	229	0.29	301	<10	172
CC08196		700	20	1.56	27	1620	23	0.05	5	343	0.37	463	<10	85
CC08197		332	5	2.70	4	500	15	0.02	<5	530	0.19	137	<10	57
CC08198		815	17	0.97	70	3850	187	0.17	8	241	0.37	396	10	547
CC08199		595	3	2.11	14	2220	17	0.11	<5	462	0.30	135	<10	108
CC08200		891	6	1.43	19	2400	26	0.08	<5	263	0.31	115	<10	135

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

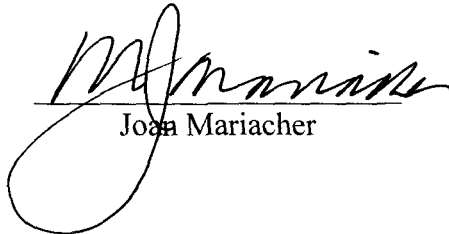
Telephone: 604-688-2568

Fax: 604-688-2578

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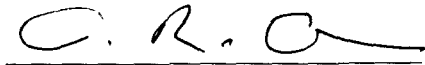
I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Shark 1, 3, 5 and 9-14
mineral claims on Claim Sheet 105F/8 and 105F/9 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 10th day of September, 2004


Notary Public, Yukon Territory



Statement of Expenditures
Shark 1, 3, 5 and 9-14 Mineral Claims
September 10, 2004

Labour

B. Wengzynowski – geologist – July 17-19, August 7-12 – 72 hours at \$70/hr	\$ 5,392.80
L. Groat – geologist – July 14 – 19 - 6 days at \$800/day	5,136.00
D. Turner – geologist – July 14 to August 4 – 22 days at \$336/day	7,909.44
D. Gregory – field assistant – July 14-31 – 18 days at \$224/day	4,314.24
August 1-4, 7-12 – 10 days at \$256/day	2,739.20
R. Moore – field assistant – July 14 to August 4, 7-12 – 28 days at \$224/day	<u>6,711.04</u>
	32,202.72

Expenses

Field room and board – 93 mandays at \$125/day	12,438.75
Trans North Helicopters – 14.2 hours Bell 206 at \$925/hr plus fuel	17,189.69
Heli Dynamics - .8 hours Bell 206 at \$900/hr	<u>932.18</u>
	30,560.62
	<u>\$62,763.34</u>

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project **EMERALD PROJECT**
Date **JULY 31, 2004**

LABOUR

Field	D. EATON - 50 HRS AT 70/HR	3500.00	
	B. WENGZYKOWSKI - 111 HRS AT 70/HR	7770.00	
	L. GROUT - 19 1/2 DAYS AT 800/DAY	15600.00	
	M. DUMALA - 1/2 DAY AT 368/DAY	184.00	
	H. NEDEKELD - 20 DAYS AT 352/DAY	7040.00	
	G. DOWNS - 27 DAYS AT 336/DAY	9072.00	
	D. TURNER - 31 DAYS AT 336/DAY	10416.00	
	B. GALAMBOS - 25 DAYS AT 224/DAY	5600.00	
	D. GREGORY - 31 DAYS AT 224/DAY	6944.00	
	I. KORKH - 29 DAYS AT 224/DAY	6496.00	
	R. MOORE - 31 DAYS AT 224/DAY	6944.00	

Accounting and Expediting	J. Mariacher - 55 3/4 hrs at \$58/hr	3233.50	
	FINEDTING L. CORBETT - 57 HRS AT 40/HRS	2280.00	8509.50

OTHER SERVICES

Room and Board in Whitehorse	28 days at \$90/day	2520.00	
Field equipment from AC stock	218 man-days AT 50/DAY	10900.00	
Printing	Photocopies 596 @.15	89.40	
Rentals from AC			
LOOMIS COURIER - 3 1/2 AT 13.85 EA + 4 AT 14.25 EA + 1 AT 20 EA		156.78	13666.38

EXPENSES

Petty Cash	2.20 DI + 16.81 DY	19.01	
Telephone	20.00	20.00	
B. WENG EXPENSES		20.77	
SUNRISE SERVICE - 168.91 + 26.17		195.08	
GREENHORN CARRIERS		204.41	
POTHIER ENTERPRISES - 2673.60 + 735.00		3408.60	
JOAN M EXPENSES - 2.99 DI + 3957.93 DI + 89.50 F (AMIGO)		4044.42	
ROSS RIVER SERVICE - 115.05 DI + 68.22 DY		183.27	
ALKAN AIR		1100.50	
THD HOTEL		129.30	
BYERS TRANSPORT		233.25	
RIVERDALE SUPER A		2756.35	
MILLS BASIN		15.05	
CORPORATE COURIER		7.80	
HELI DYNAMICS		871.20	
MAC'S FIREWOOD		109.26	
HOME HARDWARE		151.12	
OFFICE SUPPLY CENTRE		36.70	
AIR NORTH		44.07	
NORTH 60 RETRO		299.56	
CARMACKS HOTEL		78.29	13228.01

Management	6% on Expenses	825.68	
	on Field A/C	2154.38	2990.06
			15463.95
GST (R100247667) 7% on	15163.95		8096.48
			123760.43

REMIT PAYMENT TO:
TRANS NORTH HELICOPTERS
TRANS NORTH TURBO AIR LTD.

Archer Cathro

CHARTERER

BILLING ADDRESS

FUEL & OIL-X		TNTA FUEL USED	HRS/(TITRES)	FROM
TNTA	CUST.			
✓		DB	131	K2K GATT

ACCOUNT NUMBER	ARLH ATA		
INVOICE NUMBER	32466		
INVOICE DATE		AREA B.C. YUKON N.W.T. ALTA	
28 07 04		☐ B.C. ☐ YUKON ☐ N.W.T. ☐ ALTA	
A/C TYPE AS350B		AIRCRAFT REGISTRATION C G F NV	
FLIGHT DATE	DAY 15	MONTH 07	YEAR 04
PURCHASE ORDER NO.			

[illegible]

Please Remit To:
Trans North Helicopters
PO Box #8
Whitehorse, Yukon
Y1A 5X9

TERMS: PAYABLE UPON RECEIPT OF INVOICE.
2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.

x

CHARTERER'S SIGNATURE

CHARTERER'S NAME (PRINTED)

INITIALS BDC	Borg PILOTS SIGNATURE
mpm	ENGINEER'S NAME MATT MCLULLOCH

3.8	@	1275.00	4845	00
	@			
HOLDING TIME:	@	/ HR.		
FUEL 131	@	189 LITRE	235	80
FUEL	@	/ LITRE		
MEALS & LODGINGS				
OTHER				
OTHER				
SUB TOTAL			5080	80
GOODS & SERVICES TAX REGISTRATION NO. R121483135			355	66
TOTAL		\$	5436	46

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
IF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.
THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE



REMIT PAYMENT TO:

TRANS NORTH HELICOPTERS

TRANS NORTH TURBO AIR LTD.

CHARTERER

BILLING ADDRESS

FUEL & OIL-X

TNTA CUST.

TNTA FUEL USED

HRS LITRES

FROM

FROM

TO

UP/DOWN
TIME

HOURS

REMARKS - NO. OF PASS - FREIGHT
Kg

PRADOP MAX → Limbuck

Highway → Ross R.

→ McConne →

Ross R.

A. Shank

Please Remit To:
Trans North Helicopters
PO Box #8
Whitehorse, Yukon
Y1A 5X9

TERMS: PAYABLE UPON RECEIPT OF INVOICE.

2% INTEREST PER MONTH (24% PER ANNUM) WILL BE
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IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A
CASH BASIS.

X D. Turner
CHARTERER'S SIGNATUREDavid Turner
CHARTERER'S NAME (PRINTED)PWM
PILOTS SIGNATURE

ENGINEER'S NAME

	@ 925.00	1757	50
	@		
HOLDING TIME:	@ / HR.		
FUEL	216.6 LT @ 1.10 / LITRE	238	26
FUEL	@ / LITRE		
MEALS & LODGINGS			
OTHER			
OTHER			
SUB TOTAL		1995	76
GOODS & SERVICES TAX REGISTRATION NO. R121483135		139	70

TOTAL \$ 2135 46

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

TRANS NORTH HELICOPTERS

TRANS NORTH TURBO AIR LTD.

ACCOUNT NUMBER: **ARCHATA**

INVOICE NUMBER: **34668**

INVOICE DATE: **22/08/04**

AREA: **B.C. YUKON NWT ALTA**

A/C TYPE: **B766** AIRCRAFT REGISTRATION C: **SMHC**

FLIGHT DATE: **12/08/04**

PURCHASE ORDER NO.

ARCHER CATHER

CHARTERER

BILLING ADDRESS

FUEL & OIL X TMTA FUEL USED ***REST SUPPLIED BY AC.**

TNTA CUST: **0.7**

FROM	TO	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
ROSS SAGUEN LK	SHARK (D&NB)	0.5	0.4	D&NB + Ferry
	→ KETZA 3721P	10.0	3.5	D&NB
	SHARK → KETZA	15.3	1.6	D&NB

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Whitehorse, Yukon
Y1A 5X9

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IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.

X **B. Wee**
CHARTERER'S SIGNATURE

CHARTERER'S NAME (PRINTED): **ARCHER CATHER**

INITIALS: **um**

PILOTS SIGNATURE: **MATT**

ENGINEER'S NAME: **MATT**

S.5	@ 925.00	5087.50
HOLDING TIME:	@ / HR.	
FUEL 79.84	@ 1.10 / LITRE	87.78
FUEL	@ / LITRE	
MEALS & LODGINGS		
OTHER		
OTHER		
SUB TOTAL		5175.28
GOODS & SERVICES TAX		
REGISTRATION NO. R121483135		362.27
TOTAL	\$	5537.55

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

TRANS NORTH HELICOPTERS

TRANS NORTH TURBO AIR LTD.

ACCOUNT NUMBER: **ARCHATA**

INVOICE NUMBER: **34660**

INVOICE DATE: **22/08/04**

AREA: **B.C. YUKON NWT ALTA**

A/C TYPE: **B766** AIRCRAFT REGISTRATION C: **SMHC**

FLIGHT DATE: **08/08/04**

PURCHASE ORDER NO.

ARCHER CATHER

CHARTERER

BILLING ADDRESS

FUEL & OIL X TMTA FUEL USED **1.0**

TNTA CUST: **1.0**

FROM	TO	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
ROSS R.	KETZA → SHARK	9:11		1 Pump MWE
	→ ROSS R.	10:42	1.3	

Please Remit To:
Trans North Helicopters
PO Box #8
Whitehorse, Yukon
Y1A 5X9

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IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.

X **B. Wee**
CHARTERER'S SIGNATURE

CHARTERER'S NAME (PRINTED): **ARCHER CATHER**

INITIALS: **um**

PILOTS SIGNATURE: **MATT**

ENGINEER'S NAME: **MATT**

1.3	@ 925.00	1202.50
HOLDING TIME:	@ / HR.	
FUEL 114	@ 1.10 / LITRE	125.40
FUEL	@ / LITRE	
MEALS & LODGINGS		
OTHER		
OTHER		
SUB TOTAL		1327.90
GOODS & SERVICES TAX		
REGISTRATION NO. R121483135		92.95
TOTAL	\$	1420.85

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT



Heli Dynamics Ltd.

Heli Dynamics Ltd.

Helicopter Charter Services

Phone : (867) 668-3536 or 667-4971

Fax : (867) 668-5637

P.O. Box 4

Whitehorse, Yukon Y1A 5X9

E-mail: helidyn@internorth.com

INVOICE No.

5464

Charterer Billing Address <u>Archer Cathero</u> <u>1016 - 510 West Hastings</u> <u>Vancouver B.C.</u>		Customer P.O. # <u>EP Dave Shank.</u>	
Aircraft: <u>C-640F</u>		Type: <u>206</u>	Rate/Hour: <u>975.⁰⁰</u>
Date: <u>July 27/04</u>	Fuel: [] HD [] Customer	Pilot: <u>Karl Zick</u>	
From: <u>Ross River - bring groceries to</u> <u>camp, McElroy - White River.</u>		Base: <u>Whitehorse</u>	
To:		Time Up	Time Down
		<u>20:00</u>	<u>20:52</u>
			<u>.8</u>
Fuel Costs/Litre \$ <u>1.00</u>		TOTAL REV HOURS <u>.8</u>	
FUEL @ <u>114</u> Litres/hr			

SUMMARY		AMOUNT	GST Reg. # 10232 0090 G.S.T.	TOTAL
<u>.8</u>	Hours FLYING	<u>780.⁰⁰</u>	<u>54.60</u>	<u>834.60</u>
<u>.8</u>	Hours FUEL & OIL	<u>91.20</u>	<u>6.38</u>	<u>97.58</u>
	Expenses			
	Misc	<u>871.20</u>	<u>60.98</u>	
	TOTALS			
GRAND TOTAL				<u>\$ 932.18</u>

Payments must be made monthly on accounts, or 2% interest will be charged.
We appreciate your business.

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

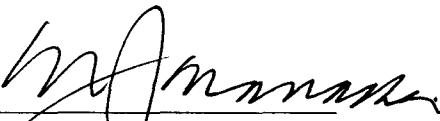
Telephone: 604-688-2568

Fax: 604-688-2578

AFFIDAVIT

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

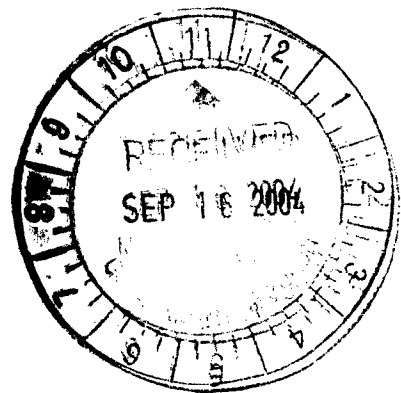
That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the Shark 57-80, 84, 86, 88 and 90
mineral claims on Claim Sheet 105F/8 and 105F/9 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

this 10th day of September, 2004


Notary Public, Yukon Territory



Field room and board – 72 mandays at \$125/day	9,630.00
Trans North Helicopters – 1.6 hours Bell 206 at \$925/hr plus fuel	1,717.78
1.5 hours A-Star at \$1275/hr plus fuel	2,346.51
Kluane Airways – 2.5 hours Hughes 500 at \$900/hr plus fuel	2,474.91
ALS Chemex	<u>4,636.42</u>
	20,805.62
	<u>\$52,580.34</u>

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project **EMERALD PROJECT**
Date **JUNE 30, 2004**

LABOUR

Field			
	D. EATON - 20 Hrs AT 70/Hr	1820.00	
	B. WENZELNOWSKI - 181 Hrs AT 70/Hr	12670.00	
	L. GROT - 14 DAYS AT 800/DAY	11200.00	
	M. DUMALA - 19 1/2 Hrs AT 46/Hr	897.00	
	H. NEUFELD - 23 DAYS AT 351/DAY	8096.00	
	D. TURNER - 14 DAYS AT 336/DAY	4704.00	
	G. DOWNS - 26 DAYS AT 310/DAY	8060.00	
	P. SACK - 2 DAYS AT 320/DAY	640.00	
	J. VINCENT - 17 DAYS AT 271/DAY	4624.00	
	A. BRAND - 17 DAYS AT 256/DAY	4352.00	
	S. EATON - 1 DAY AT 256/DAY	256.00	
	M. NUNEZ - 1 DAY AT 256/DAY	256.00	
	B. GALAMBOS - 5 DAYS AT 224/DAY	1120.00	
	D. GREGORY - 2 DAYS AT 224/DAY	448.00	
	I. KORKH - 23 DAYS AT 224/DAY	5152.00	
	R. MADRE - 1 DAY AT 224/DAY	224.00	
Accounting and Expediting	J. Mariacher - 67 1/2 hrs at \$58/hr	3915.00	
	EXPEDITING L. COLBETT 67 Hrs AT 40/Hr	2680.00	71374.00

OTHER SERVICES

Room and Board in Whitehorse	64 days at \$90/day	5760.00	
Field equipment from AC stock	136 man-days AT 50/DAY	6800.00	
Printing	Photocopies 570 @ .15	85.50	
Rentals from AC			
	LEMMING COURIER - 1 @ 13.85 + 1 @ 14.25	28.10	12673.60

EXPENSES

Petty Cash	2587.01	2587	
Telephone	56.92	56.92	
B. WENG EXPENSES		2915.82	
L. COLBETT EXPENSES	850.01 + 839.01 + 430.5403	447.43	
TRANS NORTH		8663.50	
SUNRISE SERVICE		332.11	
RIVINGTON SUPPLY - 3912.65 + 816.73		4729.38	
NORTH 60 PETRO - 984.0001 + 271.0404 + 2491.5862		3749.02	
NORCAN		1257.09	
ISLVAIR AIRWAYS		12114.00	
BUILDERS SUPPLYLAND		263.85	
SHOPPER DAVE		5.98	
GREYHOUND COURIER		317.68	
OFFICE SUPPLY		46.88	
HOME HARDWARE		48.77	
CORPORATE COURIER - 19.20 + 16.87		36.07	
ROSS RIVER SERVICE CENTRE		170.14	
ALKAN AIR		5400.00	
NORTHERN METALIC		6.56	
MACDONELL RENTAL - 17.0601 + 510.22		527.28	
MILLS BASICS		41.24	38533.59

Management	6% on Expenses	2312.02	
	on Field A/C	936.67	3248.69
			125829.88
GST (R100247667)	7% on 125829.88		8808.09
			134637.97

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

In Account With

Project

EMERALD PROJECT

Date

JULY 31, 2004

LABOUR

Field	D. EATON - 50 HRS AT 70/Hr	3500.00	
	B. WENGZYNOWSKI - 111 HRS AT 70/Hr	7770.00	
	L. GROAT - 19 1/2 DAYS AT 800/DAY	15600.00	
	M. DUMALA - 1/2 DAY AT 368/DAY	184.00	
	H. NEUFELD - 20 DAYS AT 352/DAY	7040.00	
	G. DOWNS - 27 DAYS AT 336/DAY	9072.00	
	D. TURNER - 31 DAYS AT 336/DAY	10416.00	
	B. GALAMBOS - 25 DAYS AT 224/DAY	5600.00	
	D. GREGORY - 31 DAYS AT 224/DAY	6944.00	
	I. KORKH - 29 DAYS AT 224/DAY	6496.00	
	R. MOORE - 31 DAYS AT 224/DAY	6944.00	

Accounting and Expediting	J. Mariacher - 55 3/4 hrs at \$58/hr	3232.50	
	EXPEDITING L. COLBETT - 57 HRS AT 40/Hr	2280.00	8509.50

OTHER SERVICES

Room and Board in Whitehorse	28 days at \$90/day	2520.00	
Field equipment from AC stock	218 DAYS AT 50/DAY	10900.00	
Printing	Photocopies 596 @.15	89.40	
Rentals from AC			
Logistics Courier	3 1/2 AT 13.85 EA + 6 AT 14.25 EA + 1 AT 20 EA	156.78	13666.38

EXPENSES

Petty Cash	220.01 + 16.8102	19.01	
Telephone	20.00	20.00	
B. WENG EXPENSES		20.77	
SUNRISE SERVICE	168.91 + 26.17	195.08	
GREENMOUNT COURIER		204.41	
POTHIEL ENTERPRISES	2673.60 + 735.00	3408.60	
JOAN M EXPENSES	279.01 + 3957.9303 + 89.50 F (Amigo)	4044.44	
ROSS RIVER SERVICE	115.0522 + 68.2204	183.27	
ALKAN AIR		1100.50	
TND HOTEL		129.30	
BYERS TRANSPORT		233.25	
RIVERDALE SUPER A		2756.35	
MILLS BASIN		15.05	
CORPORATE COURIER		7.80	
HELI DYNAMICS		871.20	
MAC'S FIREWEED		109.26	
HOME HARDWARE		151.12	
OFFICE SUPPLY CENTRE		36.70	
AIR NORTH		44.07	
NORTH CO PETRO		299.56	
CARMACKS HOTEL		78.29	1328.01

Management	6% on Expenses	825.68	
	on Field A/C	2154.38	2990.06

GST (R100247667)	7% on 15163.95		8096.48
			123760.42

REMIT PAYMENT TO:
TRANS NORTH HELICOPTERS
TRANS NORTH TURBO AIR LTD.

ARCHER CATHER

CHARTERER

BILLING ADDRESS

FUEL & OIL-X		TNTA FUEL USED	(KPS)/LITRES	FROM
TNTA	CUST			
✓	✓	A.C.	0.5	Skum
		TNTA	1.0	Ross.R

ACCOUNT NUMBER	ARCHATA		
INVOICE NUMBER	34614		
INVOICE DATE			AREA B.C. YUKON NWT ALTA
050704			☐ ☐ ☐ ☐ ☐
A/C TYPE B746		AIRCRAFT REGISTRATION C 5MHL	
FLIGHT DATE	DAY 01	MONTH 07	YEAR 09
PURCHASE ORDER NO.			

[illegible]

Please Remit To:
Trans North Helicopters
PO Box #8
Whitehorse, Yukon
Y1A 5X9

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X

CHARTERER'S SIGNATURE

CHARTERER'S NAME (PRINTED)

INITIALS

PILOTS SIGNATURE

ENGINEER'S NAME



MATT MALHOTRA

1.6	@ 925.00	1480	00
	@		
HOLDING TIME:	@ / HR.		
FUEL 114 LT	@ 1.10 / LITRE	125	40
FUEL	@ / LITRE		
MEALS & LODGINGS			
OTHER			
OTHER			
SUB TOTAL		1605	40
GOODS & SERVICES TAX			
REGISTRATION NO. R121483135		112	38
TOTAL \$		1717	78

TOTAL \$ 1717.78

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE – PAY UPON RECEIPT

CHARTERER Archer Catho

BILLING ADDRESS

FUEL & OIL-X		TNTA FUEL USED	HRS./LTRS	FROM
TNTA	CUST.			
✓	✓	JB	255	YDM

ACCOUNT NUMBER	ARCHATA		
INVOICE NUMBER	322462		
INVOICE DATE		AREA B.C. ☐ YUKON ☐ NWT ☐ ALTA ☐	
22/07/04			
A/C TYPE		AIRCRAFT REGISTRATION C	
A750 B		G FNV	
FLIGHT DATE	DAY	MONTH	YEAR
	13	07	04
PURCHASE ORDER NO.			

[illegible]

Please Remit To:
Trans North Helicopters
PO Box #8
Whitehorse, Yukon
Y1A 5X9

1-5	@	1275.00	19/2	50
	@			
HOLDING TIME:	@	/ HR.		
FUEL 285	@	1.10 / LITRE	280	50
FUEL	@	/ LITRE		
MEALS & LODGINGS				
OTHER				
OTHER				
SUB TOTAL			2193	00
GOODS & SERVICES TAX REGISTRATION NO. R121483135			153	51

TERMS: PAYABLE UPON RECEIPT OF INVOICE.
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X D. Wee

CHARTERER'S SIGNATURE

INITIALS	CHARTERER'S NAME (PRINTED)
BDG	<i>[Signature]</i>
	PILOTS SIGNATURE
	ENGINEER'S NAME
MM	MATT McLUCKY
MCS	MORGAN SMITH

TOTAL \$ 2346 51

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.
TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE – PAY UPON RECEIPT

KLUANE AIRWAYS LTD.

BOX 31489
WHITEHORSE, YUKON Y1A 6K8

Archer Cathro
CHARTERER

07 07 04			
INVOICE DATE			
H500		XICA	
AIRCRAFT TYPE		REGISTRATION	

NO 5234

BILLING ADDRESS

PHONE: _____

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
<i>Grans</i>			
TO <i>Lees</i>		.6	<i>Bill</i>
<i>Local Ketz Strip</i>		1.3	<i>Gram</i>
<i>Return</i>		.6	
<i>Is</i>			
<i>Sumo</i>			
			<i>180 Liters AC</i>
			<i>Ketz Fuel</i>

SPECIAL INSTRUCTIONS	2.5 @ 900 PER HOUR	2250.00
<i>Deal with</i>	@ PER MILE	
<i>Bear Problem</i>	WAITING TIME @ / HR	
<i>As per</i>	FUEL 70 @ 90 LT GAL.	63.00
<i>CO instructions</i>	PILOT'S EXPENSES	
	OTHER	
<i>B. Way</i>	SUB-TOTAL	2313.01
CHARTERER'S SIGNATURE	GST	161.91
<i>BM</i>	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$ 2474.91
PILOT'S SIGNATURE	WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book.)	WILLOW PRINTERS LTD.



ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY

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

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

Page 1 of 1

INVOICE NUMBER 1117556

BILLING INFORMATION

Certificate: **VA04047158**
Account: **EMP**
Date : **9-AUG-2004**
Project: EP-GUANO
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
199	PREP-41		Dry, Sieve (180 um) Soil	0.94	187.06
62.26	PREP-41		Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	81.56
199	ME-ICP61		27 element four acid ICP-AES	6.19	1,231.81
199	GEO-4ACID		Four acid "near total" dig	2.81	559.19

SUBTOTAL (CAD) \$ 2,082.12

GST R100938885 \$ 145.75

TOTAL PAYABLE (CAD) \$ 2,227.87

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

Please Remit Payments To :

ALS Chemex
212 Brooksbank Avenue
North Vancouver BC V7J 2C1



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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

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

Page 1 of 1

INVOICE NUMBER 1117560

BILLING INFORMATION

Certificate: **VA04047159**
Account: **EMP**
Date : **9-AUG-2004**
Project: **EP-GUANO** 
P.O. No.:
Quote:
Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
216	PREP-41	Dry, Sieve (180 um) Soil	0.94	203.04
79.34	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	103.94
216	ME-ICP61	27 element four acid ICP-AES	6.19	1,337.04
216	GEO-4ACID	Four acid "near total" dig	2.81	606.96

SUBTOTAL (CAD) \$ 2,250.98

GST R100938885 \$ 157.57

TOTAL PAYABLE (CAD) \$ 2,408.55

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

Please Remit Payments To :

ALS Chemex
212 Brooksbank Avenue
North Vancouver BC V7J 2C1