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ASSESSMENT REPORT

094531

describing

GEOLOGY, MINERALIZATION AND GEOCHEMISTRY

at the

SHINE PROPERTY

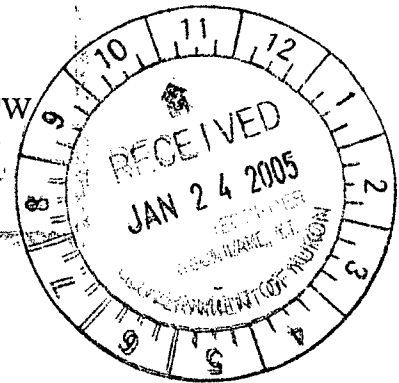
Shine 1- 40 YB94067 - YB94106

NTS 105G/8

Latitude 61°18'N Longitude 130°12'W

in the

Watson Lake Mining District
Yukon Territory



prepared by

Archer, Cathro & Associates (1981) Limited

for

TRUE NORTH GEMS INC.

by

William A. Wengzynowski, P.Eng.
January 2005

Costs associated with this report have been
approved in the amount of \$ 19,000.00
for assessment credit under Certificate of
Work No. QL25713

Mining Recorder
Watson Lake Mining District

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 19,000.

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

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SUMMARY AND RECOMMENDATIONS

The Shine property is an emerald exploration target. It consists of 40 mineral claims located 33 km south of the Robert Campbell Highway in southeastern Yukon. The claims are staked under the Yukon Quartz Mining Act and cover approximately 840 hectares. The Shine property is owned by Glacier Gems Inc. and is under option to True North Gems Inc., which can earn a 100% interest.

No emeralds have been discovered on the Shine property but they do occur at the Tsa da Glisza (formerly Regal Ridge) prospect, 20 km to the southwest. Emeralds are a gem variety of beryl with characteristic deep green colouration caused by chromium impurities. Exploration conducted at the Shine property is based on a published exploration model that incorporates features known to occur at Tsa da Glisza. This model for emerald formation involves beryllium rich, hydrothermal fluids migrating upward and outward from a granitic intrusion to produce veins in chromium rich wallrocks of mafic and ultramafic composition. Alteration of the wallrocks by the fluids brings the two key geochemical components together, thus permitting crystallization of emeralds in open spaces along vein fissures.

The Shine property is largely underlain by felsic to intermediate Devonian metasedimentary and metavolcanic strata of unit DK that has been intruded by a Cretaceous two-mica granite stock. Intrusive rocks comprise two-mica granite that outcrops in the northern part of the property plus peripheral pegmatite to aplite sills and dykes plus quartz veins. Other intrusive rocks include Grass Lakes Augen Orthogneiss which is interfingered with the stratigraphy of DK.

Soil geochemical surveys conducted in 2004 identified a number of small anomalous beryllium clusters all within the lower regions of the property near the intrusive contact. Beryllium anomalies appear to coincide with areas of tourmaline bearing quartz veining, and coarse pegmatite sills and dykes containing large books of silver mica. Tungsten values are strongly elevated across the property both within the intrusion and metasediments. Tin response is moderately anomalous across the grid with the strongest values emanating from the metasediments. Chromium response is low with most values not exceeding 50 ppm.

The geological, mineralogical and geochemical characteristics of the Shine property are only mildly prospective for emerald formation. No additional work is recommended at this time.

INTRODUCTION

The Shine property is located in the Finlayson Lake District of southeastern Yukon Territory. It consists of 40 mineral claims located 33 km south of the Robert Campbell Highway in southeastern Yukon. The claims are owned by Glacier Gems Inc. and are under option to True North Gems Inc. This report describes the results of the 2004 exploration program and compares them to results from other properties in southeastern Yukon that are also being explored for emeralds.

Work at the Shine property was conducted by a four person crew using helicopter support from June 19 to 26. It consisted of geological mapping, prospecting, soil geochemical sampling and claim surveys. One day of follow up prospecting was conducted on August 24. Both phases of exploration were managed by Archer, Cathro & Associates (1981) Limited under the author's supervision. Appendix I contains the Author's Statement of Qualifications.

PROPERTY, LOCATION AND CLAIM DATA

The Shine property comprises a contiguous block of 40 mineral claims located in southeastern Yukon at latitude 61°18' north and longitude 130°12' west on NTS 105G/8 (Figure 1). Claim data are shown below while locations of individual claims are shown on Figure 2. The claims are registered with the Watson Lake Mining Recorder in the name of Glacier Gems.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
Shine 1-40	YB94067-YB94106	March 26, 2009

*Expiry date includes 2004 work filed for assessment credit but not yet accepted.

ACCESS AND GEOMORPHOLOGY

The Shine property lies about 40 km south of the junction between the Robert Campbell Highway and the limited access Kudze Kayah Road. It is 175 km northwest of the community of Watson Lake, where the closest year round helicopter base is located. In summer 2004, most camp moves and supply runs were done with a helicopter from a temporary base at McEvoy Lake, 56 km north of the property. Equipment, supplies and personnel were usually driven from Whitehorse to Finlayson Lake by truck, a distance of 545 km. The closest lake suitable for float equipped fixed-wing aircraft is Wolverine Lake about 15 km north of the property. The nearest airstrip is on the Tsa da Glisza property located 20 km to the southwest.

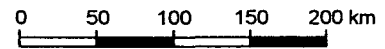
The Shine property lies within the Pelly Mountains in the headwaters of the Liard River. Elevations on the property range between 1420 and 1880 m. Topography is variable with cliffs forming north facing cirques to broad gently dipping plateaus. Ice sheets covered the entire Pelly Mountain area during the Pleistocene and alpine glacial features such as cirques and tarn lakes are common. The property is mostly above tree line. Vegetation is limited to scattered willow and buckbrush at lower elevations giving way to grass and lichen covered rock at higher elevations.

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FIGURE 1

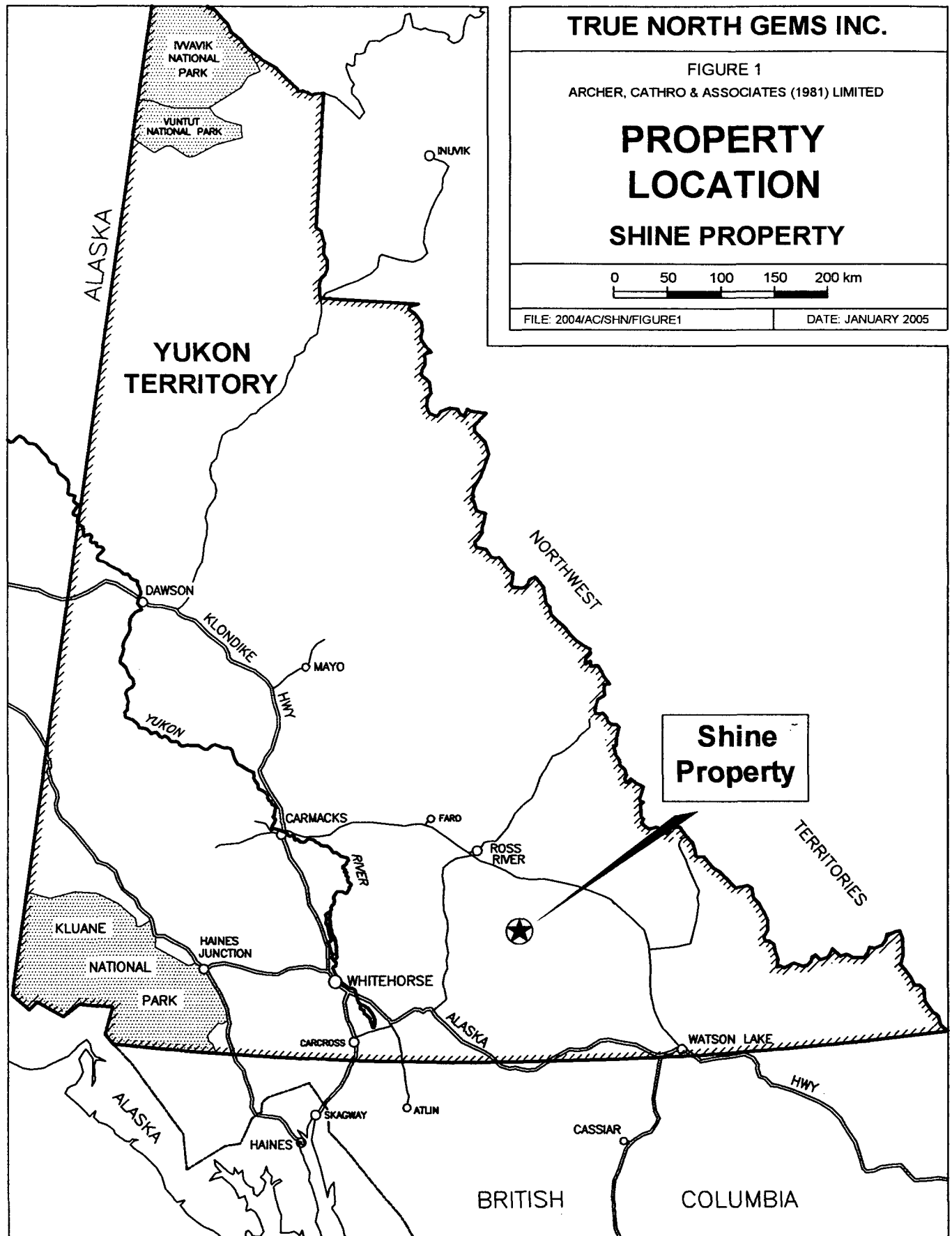
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**PROPERTY
LOCATION
SHINE PROPERTY**



FILE: 2004/AC/SHN/FIGURE1

DATE: JANUARY 2005



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FIGURE 2

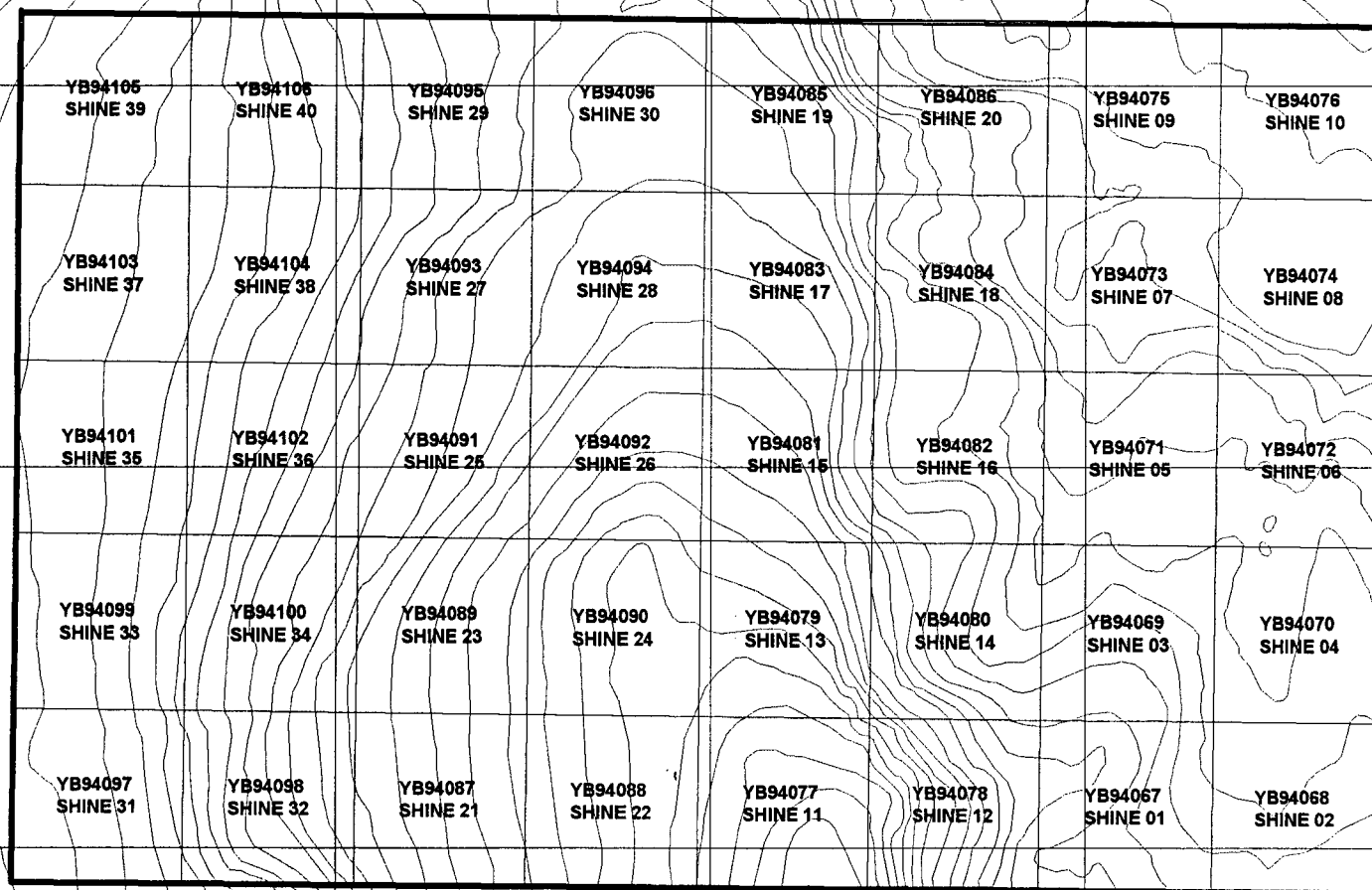
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION

SHINE PROPERTY

FILE: 2004ISHMCLAIMF2

DATE: JANUARY 2005



6799000 mN

6798000 mN

6797000 mN

433000 mE

434000 mE

435000 mE

436000 mE

437000 mE

0 250 500
metres

Creeks draining the claims provide ample water for camp purposes and there are good campsite locations.

The climate in the Pelly Mountains is characterized by very cold, long winters, truncated fall and spring seasons and short, cool and often wet summers. The normal operating season for mineral exploration is from late May through early October.

PROPERTY HISTORY

The Finlayson Lake District has seen sporadic exploration since the 1960s for a number of deposit types, notably volcanogenic massive sulphides (VMS), tungsten skarns and asbestos. Much of the work was reconnaissance in nature and was conducted as part of wide ranging regional scale programs. The most recent and most intensive exploration began in 1994 following discovery of the Kudze Kayah VMS deposit. This discovery resulted in a staking rush that enveloped much of the district. Follow up exploration led to the discovery of additional VMS deposits (Wolverine, Ice, GP4F and Fyre Lake).

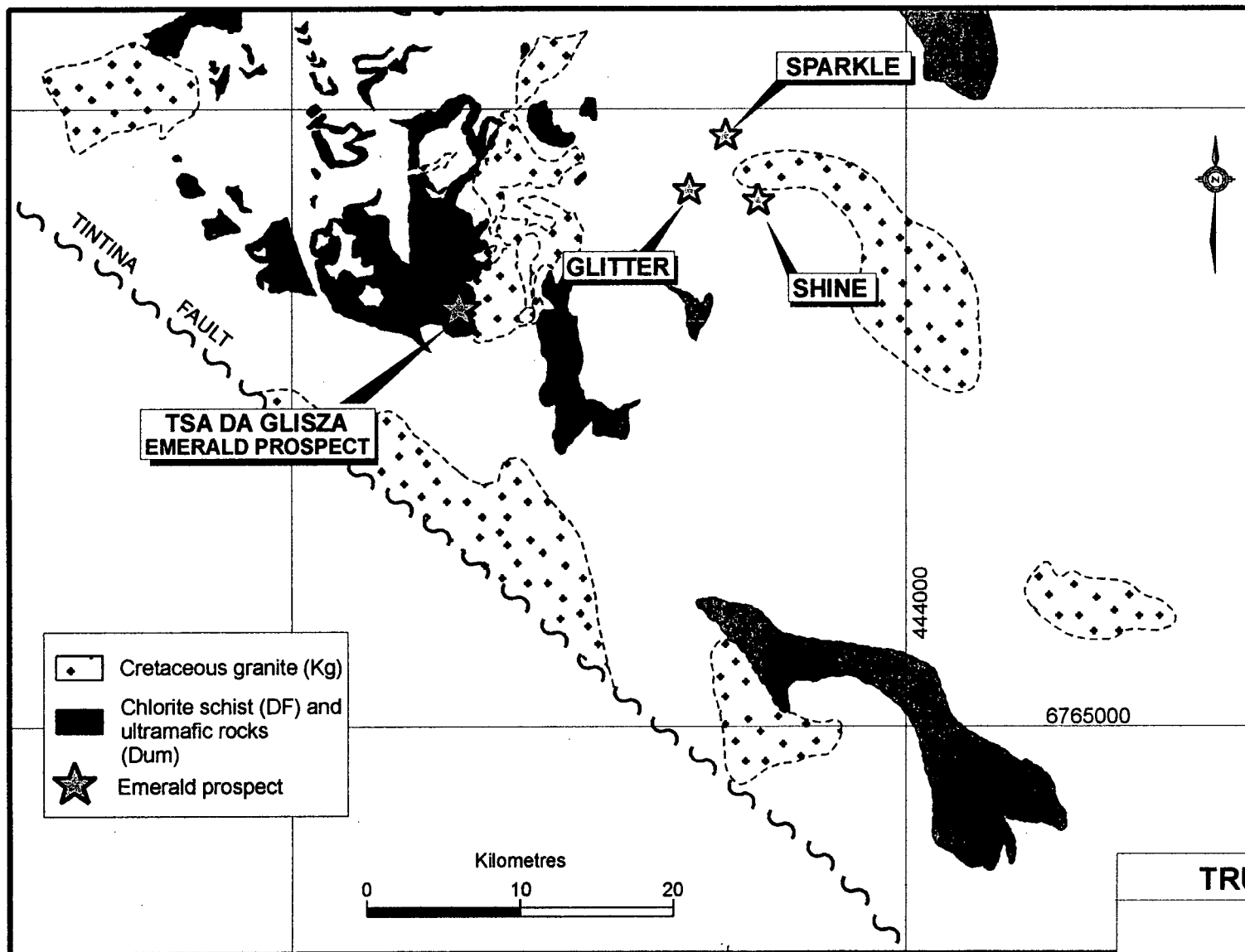
The emerald potential of the district was first recognized in August 1998 when the author discovered an occurrence at what is now the Tsa da Glisza prospect. The discovery was made on behalf of Expatriate Resources Ltd. while exploring for VMS type, base metal mineralization. The first emeralds were found by prospecting while following up anomalous copper, tungsten, gold and beryllium values obtained from contour controlled soil sampling. Expatriate performed focussed emerald exploration at Tsa da Glisza in 1999 and identified a number of emerald showings in outcrop and float over a 950 by 350 m area. In 2000 True North purchased the Tsa da Glisza property from Expatriate and has since continued to define the emerald prospect through geological mapping, prospecting, soil geochemistry, diamond drilling, trenching, bulk sampling and underground development.

There are no recorded mineral occurrences on the Shine property. The nearest and the most relevant MINFILE occurrence is the Money VMS prospect 105G081 located 4 km to the southeast within a similar stratigraphic section. Exploration at this occurrence has been reconnaissance and detail property scale and has included geological mapping, prospecting plus soil and stream geochemical surveys (Deklerk, 2002).

GEOLOGICAL SETTING

Regional Geology

The Shine property lies within the Yukon-Tanana Terrane, 30 km northeast of the Tintina Fault (Figure 3). This regional scale, transcurrent fault extends across Yukon and into Alaska and resulted in approximately 420 to 460 km of dextral offset in Early Tertiary times (Mortensen, et al, 2000). The Yukon-Tanana Terrane is composed of complexly deformed, greenschist to lower amphibolite facies metamorphic rocks of Paleozoic age (Tempelman-Kluit, 1977). The main components are Pre-Late Devonian metaclastic and carbonate rocks, and Late Devonian to Mississippian metavolcanic,



After Murphy et al. (2003)

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FIGURE 3

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**REGIONAL SETTING
SHINE PROPERTY**

metasedimentary and metaplutonic rocks. The latter package includes bimodal volcanic suites, serpentinitized ultramafic bodies thought to be sills, and granite and quartz monzonite stocks of the Simpson Range Plutonic Suite. Figure 4 is a schematic stratigraphic column showing the relationships between the main Paleozoic units and their approximate ages. Figure 5 illustrates the regional geology in the vicinity of the claim block as compiled by Murphy and Colpron in 2001.

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

Property Geology

The Shine property is primarily underlain by competent felsic to intermediate metavolcanic and metasedimentary rocks of the Grass Lakes Succession (Figure 6). These rocks contain well developed foliation which generally trends northeast and dips gently to moderately to the southeast between 5 and 28°.

Rocks of unit DK comprise the majority of the stratigraphic section observed on the property and consist of competent cliff-forming quartzite, muscovite-biotite-quartz±feldspar augen schist and lesser chlorite altered intermediate biotite-muscovite-quartz schist. The latter unit was previously mapped as Fire Lake mafic metavolcanic rocks however, upon closer inspection it appears to be part of the DK strata. Intermediate augen schists are prevalent within the lower portions of this package and are largely interfingering with Grass Lakes Augen Orthogneiss Dg.

The largest accumulation of intrusive rocks occurs in the northern part of the property where a biotite-muscovite granite stock was previously mapped by Murphy, et al., 2003. It consists of weakly to non-foliated, medium to fine grained biotite-muscovite granite. Fine grained muscovite leucogranite occurs as a later differentiated phase around the periphery of the stock and as dykes near the margins of the stock. Structures peripheral to the pluton consist mostly of pegmatite and aplite sills and dykes plus minor quartz veins. The pegmatites range from 30 cm to 1 m true thickness and contain abundant feldspar and silver white mica plus trace amounts of stubby black tourmaline and red garnet. Quartz veins are less common but where observed, they often contain tourmaline either along the selvages or within the vein.

DEPOSIT TYPES

The Shine property is located about 20 km northeast of the Tsa da Glisza emerald prospect. At Tsa da Glisza, chromium rich emerald crystals occur within quartz veins and in layers and pockets within altered selvages developed along the margins of the veins. At least 13 mineralized veins occur in a 2 sq km area on either side of a prominent ridge. The mineralized veins cut chlorite schist of the Fire Lake mafic metavolcanic unit (DF) near the contact with a granitic stock of the Anvil Plutonic Suite (Kg). The veins typically range between 0.2 and 1 m in width. The emerald crystals are up to 4 cm long and are typically surrounded by fine dark tourmaline with minor scheelite and chalcopyrite.

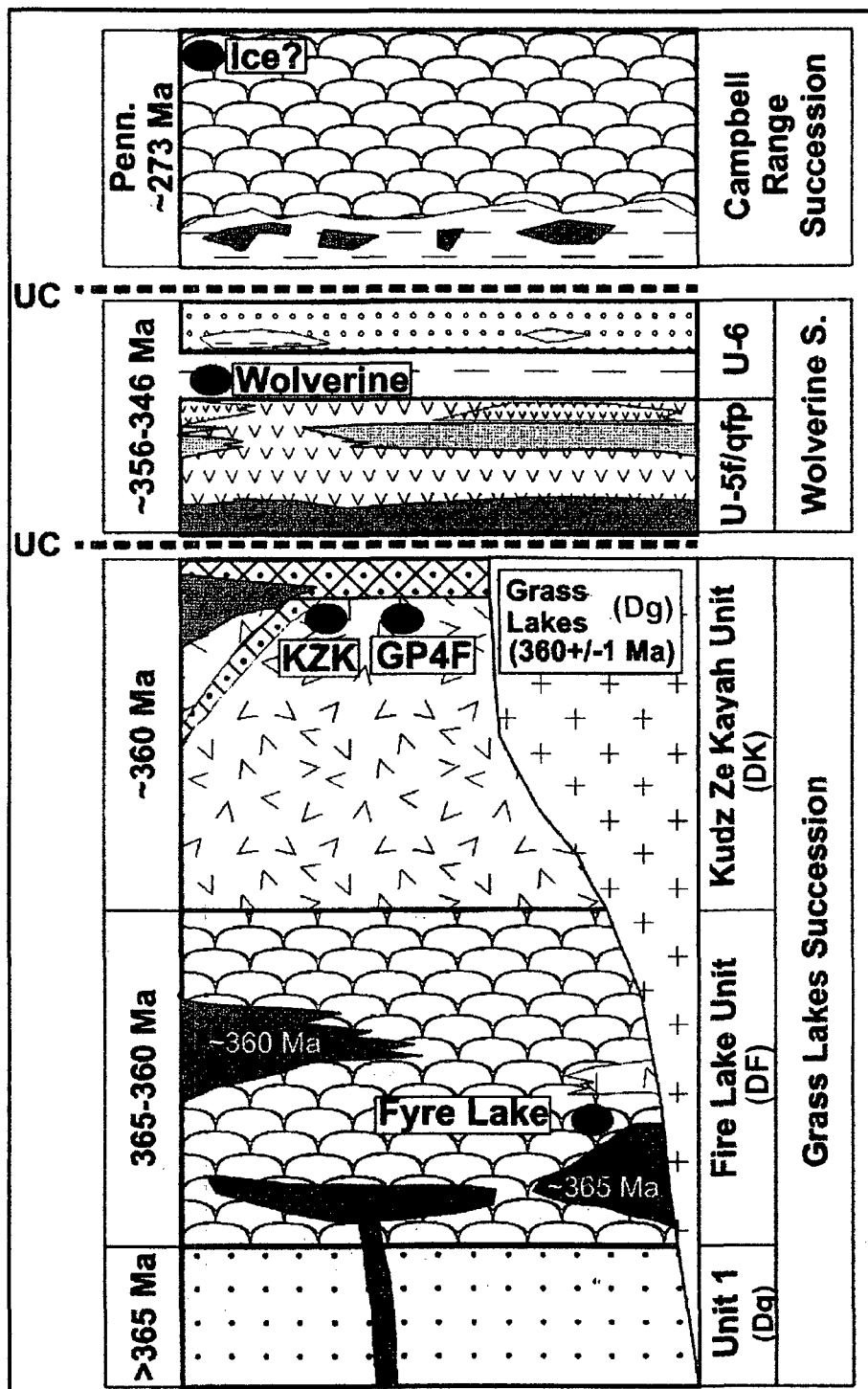


Fig 4. Schematic section of the Finlayson Lake District with the Paleozoic stratigraphy and location of VMS deposits. Dark intrusive rocks within the Fire Lake Unit are ultramafic unit Dum. Cretaceous granitic intrusions (Kg) are not shown. Modified after Murphy and Piercey (1999, 2000) and Piercey, et al, (2002)

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FIGURE 4

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STRATIGRAPHY SHINE PROPERTY

INTRUSIVE ROCKS

- Kg biotite-muscovite granite
 Msg unfoliated to strongly foliated
 biotite-hornblende granite
 and quartz monzonite
 Dg Grass Lakes Augen Orthogneiss
 Dum serpentinitized ultramafic
 Dqp quartz porphyritic granite

SYMBOLS

- geological contact
 — normal fault
 — thrust fault
 — unconformity

LAYERED ROCKS

Campbell Succession

- basalt
 phyllite

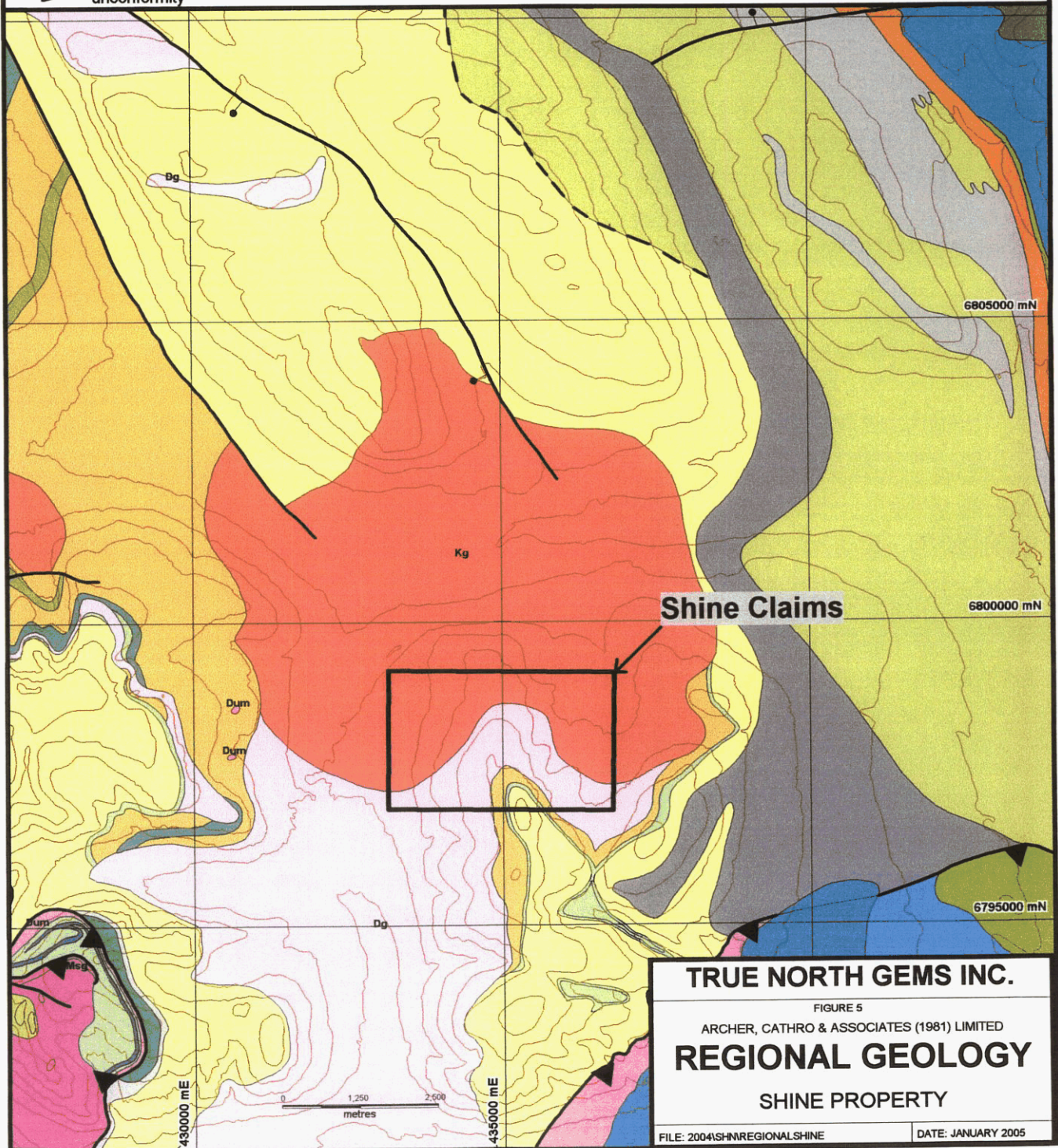
Wolverine Succession

- chlorite phyllite
 metatuff and exhalite
 muscovite-quartz phyllite
 carbonaceous phyllite
 sandstone and phyllite

Grass Lakes Succession

- DK
 feldspar-muscovite quartz schist
 carbonaceous phyllite and quartzite
 chloritic phyllite
 DF
 plagioclase - chlorite phyllite and schist
 Dq
 psammitic schist
 marble and calcareous schist
 biotite-plagioclase-actinolite-chlorite schist

Modified after Murphy & Colpron, 2001



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FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

SHINE PROPERTY

FILE: 2004\SHIN\REGIONALSHINE

DATE: JANUARY 2005

Emerald is developed adjacent to the veins where they cut mica rich layers within the chlorite schist, and occasionally in the veins themselves (Groat, et al., 2002).

During summer 2002, True North conducted bulk sampling at the prospect. On December 12, 2002, it reported favourable results from seven areas. The most promising values were from the Southwest Zone where a 6.36 tonne bulk sample yielded 11.59 kg of gem concentrate, of which 121.42 g were gem quality and 587.33 g near gem quality. A total of 284, +4.5 mm gemstones were extracted from the concentrate, at an average of 0.33 g (1.75 carats) per stone (Smith, 2002).

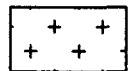
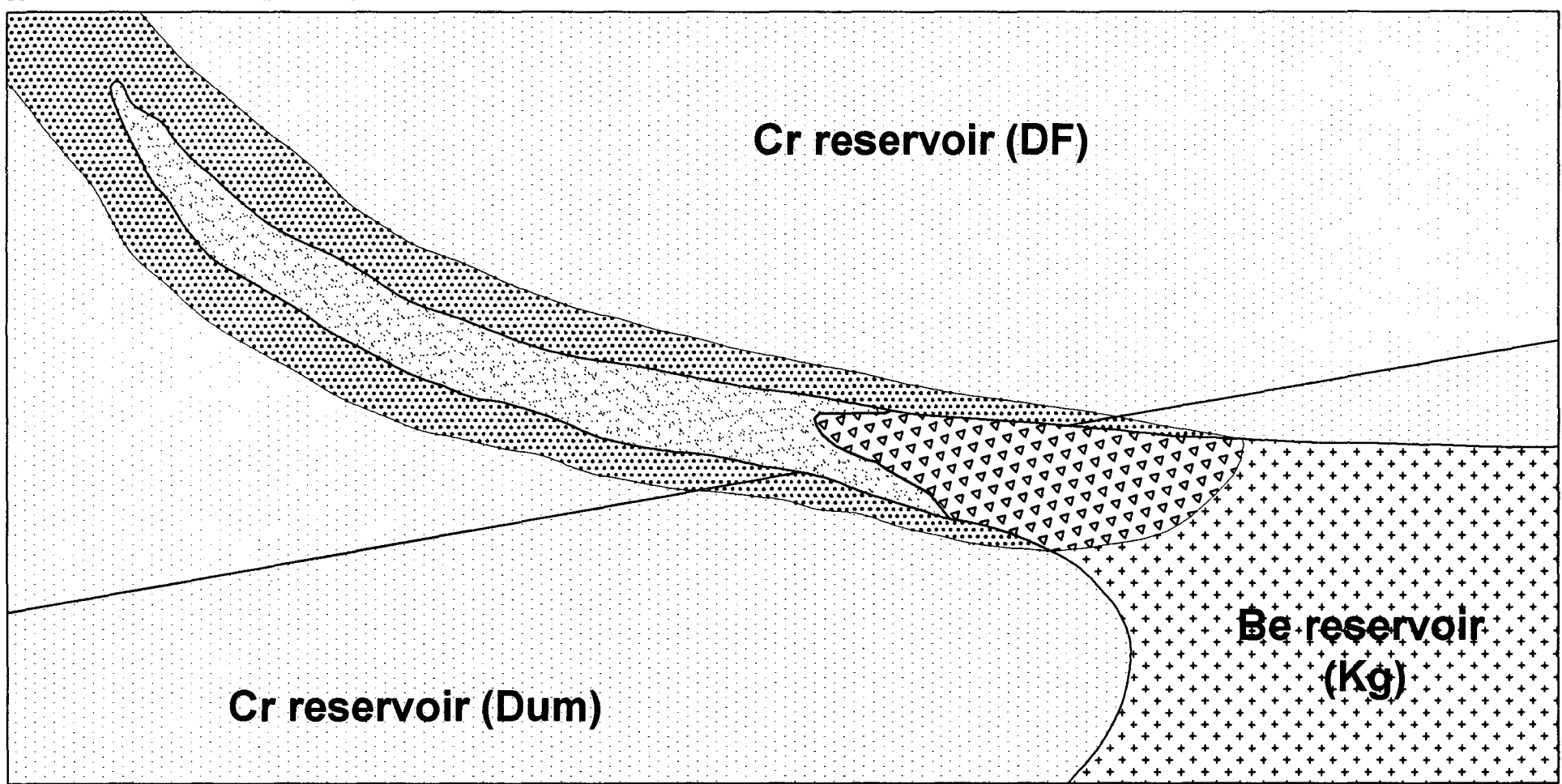
Additional surface and underground mini-bulk sampling were continued in 2003 and 2004 from which a 2,533 tonne sample yielded 38.8 kg of rough emerald including 6.25 g/t that was gem and near gem quality (Rohtert, 2004). More importantly however, was a new emerald discovery referred to as the Shadow Zone approximately one kilometre southwest of Regal Ridge.

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

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

2004 EXPLORATION PROGRAM

The 2004 work program at the Shine property included geological mapping, prospecting and grid soil geochemical surveys in areas of anomalous response previously identified by True North. Follow up work consisted of saturation prospecting in areas of anomalous beryllium, chromium and tungsten response. Soil and rock samples were shipped to ALS Chemex in North Vancouver. Soil samples were dried and screened to -80 mesh while rock samples were dried, fine crushed to -2 mm and pulverized to 75 micron. Pulps were then processed using HF, HNO₃ and HClO₄ digestion followed by an HCl leach and a combination of ICP-mass spectrometry and ICP atomic emission spectroscopy analyses. This process is described as a near total digestion. The analyses were for a total of 47 elements. Certificates of Analysis are contained in Appendix II.



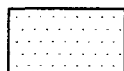
Be reservoir (Kg)



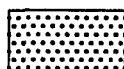
Aplite/pegmatite



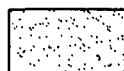
Cr reservoir (Dum)



Cr reservoir (DF)



Emerald bearing scheelite-tourmaline
alteration selvage



Quartz-tourmaline-beryl vein

Be = Beryllium Cr = Chromium

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FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

EMERALD FORMATION MODEL

SHINE PROPERTY

Mineralization

Detail mapping and prospecting identified a moderate number of pegmatite and aplite sills and dykes in the lower regions of the claim block near the intrusive contact. The sills and dykes often contain quartz segregations near the selvages. Aplite dykes are often associated with pegmatite, either as dyke selvage, or within the core of the dyke. Aplite dykes are 20 to 50 cm wide and may contain garnet, tourmaline and muscovite books within the dyke or along the selvages. Biotite is also common on dyke selvages.

Pegmatite occurs with aplite, quartz-dominant veins, and as separate dykes up to 1 m wide. Most pegmatite is plagioclase-dominant, with white and/or smoky quartz, and may contain muscovite books, garnet, and tourmaline. Selvages sometimes contain biotite and tourmaline.

Quartz veins occur in all rock units on the Shine claim block. Boudins of white or smoky quartz have little associated alteration while rusty weathering, mica rich, tourmaline schist is sometimes found in the vicinity of rusty tourmaline bearing quartz vein material. Tourmaline is also recognized on fracture surfaces not directly adjacent to quartz veins.

A piece of quartz vein talus with abundant phlogopite mica collected in the vicinity of the strongest beryllium soil geochemical anomaly returned subdued values for all emerald indicator elements.

Geochemistry

Soil samples were collected from one grid established in the eastern part of the property. Sampling was conducted at 50 m intervals along lines spaced 100 m apart. All sample sites are marked with 0.5 m wooden lath bearing an aluminum tag inscribed with a sample number and grid co-ordinate. The samples were taken from B or C Horizon soil, usually at depths between 15 and 25 cm below surface. Sample locations and geochemical results are illustrated on Figures 8 to 12. The elements beryllium (Be), chromium (Cr), tin (Sn) and tungsten (W) were the primary considerations for defining areas of geochemical interest. The thresholds for assessing anomalies using the four-acid near total digestion method were as follows:

Anomalous

Be	6 ppm
Cr	200 ppm
Sn	10 ppm
W	8 ppm

Beryllium, tin and tungsten values are elevated at numerous locations across the grid forming small clusters up to 300 by 200 m in size. The majority of these anomalies however, are only mildly coincident and are defined in the lower regions of the property which is largely talus covered. Chromium response is low across the grid with most values not exceeding 50 ppm.

INTERPRETATION AND CONCLUSIONS

Some of the geological factors required for emerald development, according to the Tsa Da Glisza model, are satisfied at the Shine property. These include quartz tourmaline veins and minor associated rusty weathering, recessive tourmalinized schist, which is indicative of at least localized hydrothermal alteration cells within reactive sections of the felsic intermediate unit. Some of the beryllium geochemical values are also believed to be sufficiently elevated to promote beryl formation.

The one factor however, that seriously impedes the potential for emerald mineralization on the Shine property is the absence of the Fire Lake mafic metavolcanic stratigraphy which hosts the Tsa Da Glisza emerald deposit. This regional stratigraphic sequence is thickest in the vicinity of Fire Lake and wanes significantly northwards below and towards the Kudz Ze Kayah and Wolverine Lake VMS deposits.

The Shine property is predominantly underlain by felsic to intermediate metavolcanics and metasedimentary rocks of unit DK. All sites yielding elevated beryllium values were inspected and most contained either tourmaline-bearing quartz vein material and/or pegmatite talus with large silver mica books.

A sample of mica bearing quartz vein material returned low values for all emerald indicators. The source of beryllium causing the soil geochemical anomalies is likely associated with coarse mica bearing pegmatites. The mobility of beryllium in the intrusives, as observed at several nearby properties, is questionable. Silver mica books are generally abundant in the areas of anomalous beryllium response and may be acting as a trap limiting interaction with the adjacent wallrocks and thus the formation of beryl.

No further work is recommended on the Shine property at this time. Although beryl could be present, it would likely be in low quantities and possess a white to pale colouration.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



William A. Wengzynowski, P.Eng.

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APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

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



William A. Wengzynowski, P. Eng.

APPENDIX II
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

Page: 1
Finalized L 19-JUL-2004
Account: EMP

CERTIFICATE VA04041703

Project: Shine

P.O. No.:

This report is for 242 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-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
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

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

To: EP
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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VANCOUVER BC V6B 1L8

Project: Shine

Page: 2 - A
Total Pages: 8 (A - D)
Finalized Date: 19-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
T27201	0.20	0.22	7.22	6.3	640	3.94	0.86	1.76	0.21	97.5	17.7	58	16.4	21.5	5.77
T27202	0.28	0.38	7.18	34.5	630	5.54	1.21	1.86	0.2	86.2	19.1	62	17.7	22.2	5.88
T27203	0.20	0.09	7.41	2.2	700	1.2	0.12	2.54	0.09	35.6	11.6	13	1.26	22.3	3.43
T27204	0.28	0.07	6.87	1.4	650	3.98	0.81	0.77	0.06	65.6	3.3	21	11	7	1.62
T27205	0.42	0.08	8.2	3.3	740	4.69	1.03	1.94	0.19	90	14.2	54	14	18.6	4.91
T27206	0.18	0.08	7.38	2.9	690	3.84	0.88	1.44	0.13	61.8	13	45	13.7	18.1	4.55
T27207	0.18	0.15	7.14	3.9	760	2.62	0.72	1.46	0.11	55.9	8.6	30	8.49	17.1	3.65
T27208	0.26	0.04	6.77	2.1	720	3.7	1.21	1.24	0.07	75.3	8	42	14	14.7	3.32
T27209	0.14	0.05	6.59	1.4	690	3.26	1.3	1.71	0.11	63.8	9	38	10.5	11	3.84
T27210	0.22	0.06	6.59	1.3	700	3.22	1.34	1.7	0.11	64.9	8.2	36	9.8	10.4	3.51
T27211	0.18	0.07	6.98	1.8	720	3.49	0.66	1.58	0.1	57.7	8.5	25	8.08	14.6	2.99
T27212	0.22	0.03	6.88	0.5	810	4.07	0.32	0.51	<0.02	90.3	1.2	19	7.3	3.6	0.77
T27213	0.26	0.07	6.96	1.1	800	3.01	0.91	1.2	0.05	64.7	3.5	23	5.77	8.5	1.51
T27214	0.28	0.06	6.37	1.3	630	3.21	0.41	0.55	0.03	61	2.1	24	9.05	8.1	1.12
T27215	0.30	0.04	6.98	1.6	560	5.51	1	1.77	0.18	76.8	16.1	48	21.6	18.8	5.34
T27216	0.24	0.18	7.66	1.7	680	5.81	1.84	1.26	0.14	111.5	17	51	20.6	22.9	5.19
T27217	0.20	0.14	7.26	1.7	750	2.92	0.38	1.02	0.05	65.2	3.2	18	7.95	12	1.41
T27218	0.24	0.15	6.99	2.3	620	4.09	1.18	0.86	0.11	90	5.8	32	13.3	11.8	2.56
T27219	0.28	0.03	7.18	0.9	690	4.34	0.54	0.73	0.05	123	2.1	17	6.84	5	1.05
T27220	0.26	0.07	7.18	1.3	550	4.87	0.84	0.46	0.03	134.5	1.3	15	12.4	4.7	1.02
T27221	0.36	0.16	6.7	2.8	650	3.9	2.46	0.96	0.1	90.4	7	36	15.15	12.4	3.23
T27222	0.28	0.06	6.83	2.2	640	4.01	1.16	1.84	0.2	94.2	11.2	35	11.55	16.7	3.87
T27223	0.20	0.05	6.78	2	610	4.57	1.41	1.8	0.24	86.2	11.9	37	15.3	15	4.1
T27224	0.24	0.08	7.28	2.1	690	3.25	0.92	1.84	0.09	59.3	10.1	31	11.5	14.1	3.67
T27225	0.32	0.03	6.79	2.3	680	3.96	1.3	0.73	0.12	81.1	5.3	39	15.5	14.2	2.65
T27226	0.34	0.03	7.12	2.2	620	4.06	1.25	1.68	0.13	79.7	13.5	47	14.8	16.4	4.63
T27227	0.26	0.08	7.48	2	630	3.88	0.91	1.96	0.15	91.5	19.3	59	18.3	25.2	6.66
T27228	0.20	0.09	7.09	2.2	610	3.84	0.91	1.71	0.14	88.4	19.3	60	18.85	25.6	6.56
T27229	0.18	0.07	7.17	1.4	670	3.79	0.64	2.04	0.21	119	20.6	55	18.35	24.3	6.86
T27230	0.22	0.06	7.35	1.5	680	3.28	0.47	2.01	0.18	91	19	48	17.05	25	6.11
T27231	0.18	0.12	6.71	1.6	730	1.76	0.25	1.66	0.13	67.4	10.1	22	6.58	18.2	3.11
T27232	0.20	0.05	6.95	1.2	620	3.17	0.49	1.96	0.17	95.1	22	61	20.1	27.9	6.81
T27233	0.22	<0.01	6.94	1.9	690	3.72	1.37	0.79	0.04	117	4.4	33	10.75	9.6	2.17
T27234	0.22	0.08	6.27	5	610	3.51	1.63	1.18	0.13	101	9.7	50	12.3	13.7	4.35
T27235	0.10	0.04	6.4	1.3	710	4.2	0.91	0.68	0.06	108.5	2.8	22	11.4	6.4	1.46
T27236	0.18	0.11	6.78	2.5	670	4.64	1.87	0.63	0.2	89.4	5.5	37	20.5	10.6	2.59
T27237	0.26	0.02	7.35	4.2	650	5.11	1.69	1.32	0.24	89.6	12.2	49	20.8	16.5	4.58
T27238	0.18	0.06	7.1	2.3	740	2.19	0.57	1.44	0.15	79.5	10.9	43	8.46	23	3.62
T27239	0.16	0.07	7.14	2.3	780	2.15	0.53	1.42	0.13	78.2	10.7	44	8.42	22.4	3.72
T27240	0.34	<0.01	7.54	2.1	780	5.19	1.11	2.09	0.23	130	17.3	53	16.8	24	5.46

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



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Page: 2 - B
Total # of Pages: 8 (A - D)
Finalized Date: 19-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
T27201	24.4	0.19	1.9	0.1	2.32	48.7	69.5	1.77	841	2.3	1.44	30.3	20.1	1430	13.9
T27202	25.5	0.18	2.1	0.108	2.19	42.1	72.3	1.79	1025	4.39	1.33	32.8	22	1940	14.4
T27203	19.45	0.09	4.4	0.026	1.81	19.1	16	1.08	473	1.54	2.66	6.2	9.7	650	8.7
T27204	25.9	0.12	2.6	0.048	2.99	34.6	57.2	0.41	197	1.26	1.7	23.1	5	420	25.5
T27205	26.6	0.17	3.2	0.09	2.58	46.2	68.5	1.45	769	1.77	1.8	29.2	17.6	1580	22.5
T27206	25.3	0.14	2.9	0.084	2.23	32.1	62.6	1.34	703	1.82	1.54	23.5	15.4	1200	18
T27207	23.7	0.11	4	0.05	2.08	30	39.8	0.88	494	2.13	1.95	16.9	10	720	16.6
T27208	27.5	0.15	2.8	0.069	2.2	38.3	40.9	0.79	637	2.23	1.65	34.4	10.6	720	14.4
T27209	29.2	0.15	2.7	0.082	2.06	31.3	32.4	1.01	604	1.9	1.5	34.5	10	890	23.8
T27210	28.6	0.13	2.8	0.075	2.12	32.5	29.9	0.92	570	1.94	1.6	35.2	9.2	930	24.5
T27211	20.9	0.11	3.3	0.054	2.27	29.8	43.7	0.89	513	1.58	2.03	18.2	8.8	740	13.2
T27212	24.8	0.13	3.9	0.042	3.32	46.4	45.1	0.21	115	1.29	1.22	23.8	2.4	200	23.6
T27213	23.8	0.11	3.6	0.043	2.43	34.5	30.7	0.41	286	1.91	1.99	28	4.1	590	20.8
T27214	21.1	0.11	2.9	0.041	2.51	32.5	46	0.27	148	1.4	1.28	17.8	4.6	1000	18.7
T27215	23.5	0.16	2	0.095	1.85	41.2	90.2	1.49	890	2.25	1.42	32	17.4	1210	12.7
T27216	26.1	0.2	2.4	0.095	2.15	71	107	1.66	883	4.52	1.23	25.3	18.6	1400	13.8
T27217	23.3	0.1	3.3	0.036	2.63	34.7	44.5	0.4	227	1.85	1.88	16.1	4.5	820	17.9
T27218	23.4	0.14	2.5	0.051	2.56	46.5	63.4	0.61	309	2.19	1.51	21.7	9.7	1360	20.1
T27219	27.3	0.16	2.6	0.045	3.49	61.8	52.8	0.27	164	1.21	1.8	26.7	3.5	510	26.1
T27220	27.4	0.16	2.4	0.042	3.26	70	78.7	0.19	85	1.19	1.5	23	3.5	280	27.3
T27221	26.3	0.13	2.2	0.063	2.58	45	48	0.72	443	2.92	1.6	30.3	10.2	620	18.2
T27222	20.2	0.15	2.3	0.071	2.13	49.2	53.6	1.09	629	1.93	1.95	26.5	13.3	1720	13.3
T27223	20.5	0.14	1.9	0.081	2.08	44.2	60.4	1.19	680	1.88	1.9	30.7	13.5	1720	12.6
T27224	20.3	0.13	3.2	0.061	2.07	29.9	66.7	1.16	541	2.61	2.1	20	11.4	1060	12
T27225	23.1	0.14	2.1	0.054	2.32	41	62.3	0.56	332	1.68	1.6	25	10.3	1300	13
T27226	22.4	0.15	1.9	0.09	2.39	35.9	80.7	1.32	807	2.3	1.72	29.9	16.3	1200	12.8
T27227	24	0.18	1.8	0.106	2.21	46.5	79.3	1.95	972	1.76	1.62	28.5	21.4	1740	11
T27228	24.3	0.17	1.8	0.098	2.25	47.6	81.7	1.94	919	1.62	1.52	27.8	21.5	1580	10.1
T27229	23.9	0.21	1.9	0.107	2.22	64.2	84.9	2.02	1080	1.25	1.6	34	20.1	1860	8.9
T27230	23.8	0.19	2.4	0.09	2.35	50	76.2	1.83	1010	1.29	1.82	27.6	18.3	1740	8.9
T27231	18.7	0.12	3.7	0.044	2.03	33.8	32.7	0.89	726	1.75	2.27	15.8	8.5	1280	9.2
T27232	23.6	0.21	1.8	0.097	2.38	60.7	85.7	2.14	1010	1.12	1.46	26.9	24.3	1500	8.7
T27233	27.1	0.15	2.2	0.05	2.38	60.8	49.4	0.42	237	1.72	1.73	29.3	9.2	490	15.9
T27234	23.7	0.14	2.5	0.081	1.84	51	51.7	0.88	556	1.6	1.37	31.3	16.1	680	16.2
T27235	22.1	0.16	2.5	0.037	2.51	57.2	41.6	0.34	197	2.02	1.94	23.9	5.1	420	13.7
T27236	23.7	0.16	2.2	0.057	1.94	48.3	91.6	0.63	328	1.82	1.26	23.9	11.1	830	13.4
T27237	24.8	0.17	1.8	0.083	2.2	43.8	98.9	1.21	675	1.91	1.61	29	19.6	1330	15.4
T27238	19.95	0.16	3.3	0.058	1.92	42.8	37.5	1.09	569	1.59	1.75	16	16.9	1090	9.4
T27239	19.35	0.15	3.1	0.063	1.94	42.4	36.5	1.09	587	1.55	1.71	16.1	16.4	1140	9.3
T27240	23.7	0.21	2.2	0.102	2.58	66.2	77.1	1.61	932	1.62	1.79	38.8	21.2	1770	13

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



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Project: Shine

Page: 2 - C
Total # of Tests: 8 (A - D)
Finalized Date: 19-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
Sample Description															
T27201	136.5	<0.002	0.04	1.46	2	10.4	108.5	2.16	<0.05	14.6	0.957	0.76	3.3	152	3.9
T27202	145.5	<0.002	0.08	4.35	2	10.9	104.5	2.42	<0.05	15	0.959	0.91	5	160	22.1
T27203	41.4	<0.002	0.02	0.59	1	1.1	663	0.47	<0.05	5	0.47	0.22	2	111	0.6
T27204	190.5	<0.002	0.02	0.41	1	10.8	149.5	2.09	<0.05	15	0.393	0.88	3.6	58	3.3
T27205	151	<0.002	0.03	0.61	1	10.4	212	2.21	<0.05	17.8	0.839	0.77	4.6	142	5.4
T27206	125.5	<0.002	0.04	0.51	2	8.6	194	1.74	<0.05	12	0.678	0.63	4.1	125	4.6
T27207	92.1	<0.002	0.02	0.67	1	5.4	327	1.25	<0.05	10.4	0.491	0.51	4.2	97	5
T27208	125.5	<0.002	0.02	0.5	1	11.7	122.5	2.9	<0.05	14.8	0.783	0.57	3.1	106	7.4
T27209	108	<0.002	0.02	0.4	1	11.4	124	2.49	<0.05	10.1	1.02	0.45	3.1	138	5.2
T27210	106.5	<0.002	0.02	0.4	1	11.4	132	2.62	<0.05	11	1.015	0.45	3.3	129	5
T27211	91.9	<0.002	0.02	0.49	1	6.6	303	1.42	<0.05	10.2	0.506	0.47	3.1	79	3.9
T27212	175.5	<0.002	0.01	0.31	1	12.7	105	2.12	<0.05	20.4	0.42	0.89	3.5	41	3.6
T27213	99	<0.002	0.01	0.4	1	11.1	210	2.31	<0.05	14	0.603	0.47	3	63	4.9
T27214	158	<0.002	0.04	0.42	1	8.4	146.5	1.51	<0.05	13	0.27	0.77	3.3	45	2.8
T27215	112	<0.002	0.01	0.43	1	16.5	101	2.44	<0.05	12.2	0.938	0.69	4.5	146	12.2
T27216	134.5	<0.002	0.04	0.28	2	8.8	126	1.82	<0.05	19	0.666	0.7	9.8	124	5.2
T27217	130	<0.002	0.03	0.47	1	7.7	284	1.43	<0.05	14	0.295	0.75	3.3	48	2.3
T27218	163.5	<0.002	0.04	0.48	1	10.1	157.5	1.9	<0.05	22	0.39	0.77	5.9	66	3.8
T27219	187	<0.002	0.01	0.37	1	13.4	108	2.36	<0.05	27.4	0.458	1	3.9	46	4.2
T27220	213	<0.002	0.01	0.34	1	13.6	89.7	2.18	<0.05	37.3	0.259	1.12	5.3	30	3.7
T27221	184	<0.002	0.02	0.64	1	12.5	89.9	2.59	0.05	19.9	0.615	0.77	3.9	93	5.4
T27222	121	<0.002	0.03	0.46	1	9.4	187.5	2.19	<0.05	17.6	0.718	0.55	4.4	101	3.6
T27223	127	<0.002	0.04	0.36	1	10.6	141.5	2.57	<0.05	16	0.833	0.57	4.1	108	30.6
T27224	109.5	<0.002	0.02	0.43	1	6.1	326	1.59	<0.05	11.2	0.558	0.51	4.4	94	2.6
T27225	146	<0.002	0.05	0.53	1	11.1	118.5	2.3	<0.05	19.2	0.455	0.6	3.6	78	6.1
T27226	148	<0.002	0.02	0.37	1	10.7	111.5	2.51	<0.05	15.4	0.794	0.63	3.6	125	5.6
T27227	151	<0.002	0.04	0.42	2	8.4	168	1.96	<0.05	13	0.908	0.7	3.1	166	3.3
T27228	155.5	<0.002	0.04	0.4	2	8.3	159.5	1.88	<0.05	12.2	0.906	0.69	3	167	3.7
T27229	154	<0.002	0.03	0.28	2	8.6	178.5	2.28	<0.05	11.4	1.05	0.63	3.1	162	3.1
T27230	152.5	<0.002	0.03	0.31	2	7.5	253	1.79	<0.05	9.8	0.91	0.61	2.7	147	3.1
T27231	92.1	<0.002	0.04	0.46	1	3.5	419	1.21	<0.05	8.2	0.467	0.4	2.8	72	1.1
T27232	161.5	<0.002	0.03	0.24	2	6.7	172	1.75	<0.05	9.5	0.98	0.63	2.6	173	2.7
T27233	129.5	<0.002	0.02	0.63	1	15.9	95.8	2.63	<0.05	28.6	0.528	0.65	4.3	83	14.5
T27234	116	<0.002	0.03	0.69	2	12.3	95.4	2.5	0.05	20.8	0.774	0.57	4	124	9.4
T27235	143.5	<0.002	0.01	0.47	1	11.8	118.5	2.82	<0.05	26	0.38	0.56	3.3	58	5.1
T27236	140	<0.002	0.03	0.56	1	14	99.5	2.2	<0.05	20.4	0.461	0.68	4.8	83	9
T27237	163.5	<0.002	0.02	0.56	1	14.2	103	2.39	0.05	19.6	0.669	0.71	3.6	118	9.1
T27238	89	<0.002	0.06	0.55	1	4	306	1.13	<0.05	13.2	0.461	0.4	2.9	101	2.3
T27239	87	<0.002	0.06	0.53	1	3.8	291	1.1	<0.05	13.4	0.456	0.41	2.9	100	2.3
T27240	175	<0.002	0.01	0.54	2	14.3	135.5	3.23	<0.05	20.3	0.952	0.76	5	143	5.1

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



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Project: Shine

Page: 2 - D
Total # Tests: 8 (A - D)
Finalized Date: 19-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
T27201		43.6	98	46.6
T27202		47.8	107	52.2
T27203		10.3	64	121.5
T27204		12.3	34	66.9
T27205		37.2	95	79
T27206		27.6	89	76.3
T27207		18.4	65	109.5
T27208		35.4	59	73.3
T27209		39.5	60	68
T27210		40.6	53	70.3
T27211		22.2	59	89.7
T27212		13.9	16	100.5
T27213		17.6	27	95.7
T27214		9	30	75.6
T27215		44	89	46.9
T27216		48.3	108	57
T27217		10	33	93.6
T27218		17.4	50	64.2
T27219		21	18	61.2
T27220		13.3	27	53.7
T27221		26.8	59	49.1
T27222		41.2	71	57.5
T27223		45.8	75	45.1
T27224		25.3	69	85.5
T27225		16.6	54	54.1
T27226		38.5	83	45.9
T27227		44.1	116	47.7
T27228		41.7	120	46.9
T27229		59.3	125	48.8
T27230		45.6	116	67.1
T27231		24.8	68	105.5
T27232		49	122	48.5
T27233		19.9	38	55
T27234		33.2	68	60
T27235		15.8	31	60.6
T27236		18.2	49	56.2
T27237		32.3	89	43.4
T27238		24.5	66	90.1
T27239		24.7	67	87.8
T27240		58.4	99	51.4

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



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CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
T27241	0.20	<0.01	6.29	1.4	720	3.35	0.67	0.72	0.03	112	3.1	31	12.15	9.4	1.46
T27242	0.24	<0.01	7.52	1.4	680	5.33	1.83	0.64	0.05	122.5	5.1	44	21	16	2.38
T27243	0.20	0.17	6.48	1.8	810	3.19	1.5	0.91	0.48	82.8	8.3	29	18	13.9	2.35
T27244	0.22	0.14	7.03	1.6	840	1.34	0.14	1.76	0.06	39.6	4.7	4	1.93	15.8	1.7
T27245	0.20	0.09	7.04	1.5	740	2.97	1.21	1.56	0.09	63.9	6.7	22	8.77	19.4	2.98
T27246	0.22	0.14	7.23	1.9	680	3.76	2.17	1.33	0.21	56.5	8.6	32	17.6	23	3.61
T27247	0.20	0.09	6.75	0.9	620	3.85	0.82	1.58	0.31	57.2	10.3	38	13.9	19.6	3.66
T27248	0.20	<0.01	7.69	1.9	660	4.12	1.48	1.64	0.26	87.2	16.8	50	21.6	24.1	5.3
T27249	0.18	0.13	6.83	1.5	760	1.13	0.16	1.73	0.12	34.3	5.3	8	2.03	14.9	1.74
T27250	0.20	<0.01	7.34	2.2	680	4.23	0.52	2.12	0.19	96.6	23.1	50	16.05	19.2	6.75
T27251	0.28	<0.01	7.34	1.9	690	3.97	0.55	2.23	0.21	116	25.3	59	16.05	22.6	7.49
T27252	0.22	0.05	7.02	2.8	760	2.37	0.56	1.36	0.12	82.4	11.4	44	8.78	24.2	3.69
T27253	0.24	<0.01	7.26	1.6	640	5.36	0.63	1.64	0.18	78.2	18	50	21.2	20.5	6.62
T27254	0.30	0.1	7.82	1.1	670	4.43	1.95	2.01	0.32	140	20.9	65	23.2	31.2	7.85
T27255	0.34	<0.01	7.91	1.6	690	4.88	0.88	2.31	0.24	105.5	21.3	58	20.5	24.8	7.25
T27256	0.26	0.03	7.81	1.6	830	6.31	1.48	2.06	0.51	90.9	18.8	56	24.3	37.7	5.96
T27257	0.22	0.05	7.44	2.3	800	2.73	0.92	1.64	0.17	48.3	8.2	21	10.1	20.9	2.86
T27258	0.18	0.09	7.28	1.9	570	5.55	1.13	1.56	0.32	73	15.1	53	21	23.5	5.8
T27259	0.14	0.08	7.81	2.3	680	7.51	3.27	0.96	0.19	72.7	8	39	20.2	19.4	3.85
T27260	0.30	0.03	7.79	1.1	590	10.55	3.32	0.9	0.25	108.5	5.4	23	21.9	11.3	2.94
T27261	0.24	0.04	6.03	1.9	610	4.47	1.69	0.87	0.11	93	4.3	25	11.3	7.7	2.16
T27262	0.16	0.19	6.35	0.7	690	2.35	0.33	1.54	0.13	50.4	4.7	10	3.12	17.2	1.72
T27263	0.28	0.1	6.92	4.1	640	4.87	1.23	0.96	0.14	90.6	10.2	45	17.15	11.6	4.34
T27264	0.32	<0.01	6.97	2.8	690	6.13	2.76	0.71	0.13	96.6	7.2	51	17.4	13.2	3.29
T27265	0.30	<0.01	6.85	2.6	670	4.47	2.07	0.97	0.07	90.2	5.3	32	10.45	9.6	2.69
T27266	0.20	0.06	7.64	1.8	770	1.44	0.15	2.3	0.06	34.3	7.5	8	1.41	16.7	2.07
T27267	0.26	0.08	7.69	1.5	870	1.45	0.18	2.01	0.06	37.1	5.9	6	1.37	16.9	1.94
T27268	0.34	<0.01	7.17	1.5	770	4.62	0.74	0.61	0.03	105.5	2.4	30	10.65	7.3	1.31
T27269	0.20	0.18	6.13	2.1	600	4.05	1.94	0.79	0.18	79.7	5.7	33	11.5	14.3	2.6
T27270	0.26	0.11	6.94	1.3	680	3.54	0.81	1.16	0.09	73.4	4.5	18	6.75	12.6	1.92
T27271	0.20	0.03	7.19	0.9	750	2.87	0.33	1.12	0.04	75.5	3.2	15	5.73	9.6	1.23
T27272	0.30	<0.01	7.18	1.4	770	2.81	0.48	1.18	0.04	65.7	3.2	12	4.92	10.3	1.36
T27273	0.26	0.17	7.15	1.6	750	2.01	0.34	1.67	0.07	42.8	5.3	11	3.67	13.8	1.7
T27274	0.32	<0.01	7.71	1.8	570	5.35	2.02	1.24	0.23	84.4	14	50	18.65	14.5	4.92
T27275	0.28	0.09	7.65	1.5	670	6.51	1.85	1.31	0.12	123	20.1	49	20.4	22	5.36
T27276	0.22	0.07	8.06	1.3	690	6.1	1.56	1.58	0.13	114	17.2	52	19.25	22.5	5.69
T27277	0.20	0.13	7.12	1.4	660	5.74	1.68	1.21	0.24	99.1	16.9	41	18.1	20.9	4.44
T27278	0.26	0.1	7.66	1.3	660	6.18	1.62	1.44	0.1	93.3	16.6	48	19.6	20.2	5.2
T27279	0.30	0.02	6.65	0.8	680	3.4	0.7	1.16	0.08	54.1	4.7	22	7.91	8.1	1.98
T27280	0.26	0.11	7.81	1.3	670	6.29	1.75	1.42	0.13	95.9	16.6	48	20	21.2	5.25

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



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Project: Shine

Page: 3 - B
Total # Tests: 8 (A - D)
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Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
T27241	19.75	0.14	2.3	0.035	2.28	56.8	44.8	0.34	189	1.46	1.37	23.2	6.9	580	14.2
T27242	27.4	0.16	1.9	0.052	2.68	62.9	80.8	0.42	238	1.48	1.48	27.6	13	740	16.8
T27243	21.3	0.13	2.9	0.038	1.99	42	47.1	0.48	2120	4.61	1.51	19.8	7.9	1540	15.4
T27244	16.4	0.09	4.4	0.019	2.12	22.2	19.6	0.52	364	1.66	2.64	6.1	3.4	420	8.6
T27245	20.4	0.12	3.7	0.044	1.95	34.4	36.9	0.72	464	2.51	2.09	17.3	7.8	1240	11.6
T27246	22.9	0.12	3.2	0.06	1.83	31.1	67.4	0.9	684	3.49	1.61	16	12.9	2100	10.5
T27247	20	0.12	2.8	0.059	1.75	28.7	39.6	0.94	1015	2.04	1.65	19.3	11.5	2330	9.2
T27248	25.7	0.18	2.5	0.08	2.26	43	74.1	1.46	1045	1.9	1.64	25.3	18	1800	13.2
T27249	16.55	0.1	4.4	0.018	1.91	19.1	17.7	0.57	372	1.52	2.45	6.5	4.1	650	8.3
T27250	26.5	0.2	1.9	0.114	2.12	45.8	71	1.98	1300	1.44	1.84	39.8	20	2130	9.6
T27251	27.1	0.22	1.7	0.116	2.39	51.7	78.2	2.23	1345	1.41	1.68	43.1	23.2	2230	9.7
T27252	21	0.17	3.2	0.064	1.93	43	38.7	1.08	576	1.56	1.64	17.4	17.7	1100	9.2
T27253	27.4	0.17	1.8	0.118	2.21	34	82.1	1.82	925	1.21	1.74	41.8	18.6	1290	9.4
T27254	28.3	0.28	1.7	0.124	2.42	73	101.5	1.99	1155	1.37	1.45	35.7	21.4	2450	12.7
T27255	27.3	0.22	1.9	0.122	2.54	49	98.6	2.01	1210	1.35	1.56	39.2	21.2	2720	10
T27256	27.2	0.19	2	0.112	2.36	40.9	92.3	1.75	1140	3.53	1.72	34	30.2	2080	10.3
T27257	20.7	0.14	3.9	0.038	2.14	24.1	47.9	0.83	556	2.01	2.34	12.8	9.1	1120	8.6
T27258	25.8	0.17	1.6	0.102	1.84	30.7	83.4	1.44	906	2	1.46	31.7	20.1	1900	8.1
T27259	26.6	0.17	2.5	0.069	2.09	39.3	85.8	0.84	672	2.45	1.44	23.1	13.3	2280	14
T27260	28.8	0.18	1.4	0.055	2.71	51.7	96.6	0.81	323	1.87	2.22	28.9	8.7	730	12.4
T27261	23.8	0.17	1.9	0.042	2.16	44.6	34.6	0.43	310	1.32	1.81	26.3	7.4	770	11.5
T27262	15.15	0.12	3.5	0.022	1.73	28.7	19.2	0.51	310	1.76	2.13	5.8	4.8	1460	7.2
T27263	27.2	0.19	1.8	0.073	2.19	46.4	75.3	0.87	461	2.11	1.38	33	14.5	900	15.6
T27264	27	0.19	1.9	0.059	2.24	50.4	79.2	0.66	331	1.6	1.24	32	14.5	550	15.9
T27265	26.9	0.18	2.2	0.049	2.51	45.7	50.1	0.54	322	1.8	1.66	28.3	8.5	470	14.4
T27266	18.5	0.12	4.3	0.023	1.97	18.3	18.4	0.82	395	1.42	2.78	5.5	5.7	500	6.7
T27267	18	0.11	4.6	0.016	2.17	20.3	19.1	0.63	398	1.62	2.87	5.6	3.8	370	7.5
T27268	25.9	0.17	2.7	0.04	3.11	55.4	54.7	0.27	180	2	1.79	25.8	6.6	510	22.3
T27269	19.85	0.15	2.1	0.048	1.78	38.8	55.7	0.58	281	2.12	1.16	17.7	10.4	1980	13.6
T27270	20.8	0.14	3.4	0.038	2.26	36.8	43.4	0.52	315	1.7	1.94	14.9	6	1340	14.4
T27271	21.5	0.14	3.8	0.025	2.88	38.4	41	0.38	228	1.26	2.08	14.2	3.3	580	15.9
T27272	21.9	0.13	3.8	0.026	2.72	33.1	36.9	0.37	258	1.4	2.24	15	3	320	13.8
T27273	19.6	0.13	4	0.023	2.19	23.2	27	0.58	328	1.66	2.45	8.2	4.6	570	10.2
T27274	27	0.2	2	0.09	2.55	43.8	106.5	1.26	563	2.08	1.63	31.5	16	850	14.3
T27275	26.1	0.26	2.1	0.095	2.14	70.2	102	1.6	1620	4.7	1.32	26.2	18.3	1500	11.8
T27276	26.5	0.25	2.1	0.1	2.44	64.4	91.7	1.75	963	3.37	1.44	27.8	17.7	1480	12.6
T27277	24.2	0.21	2.4	0.075	2.06	52.9	84.5	1.21	2060	4.22	1.37	22.1	14.8	1680	12.7
T27278	25.5	0.23	2.1	0.094	2.3	58	95.6	1.61	871	4.28	1.37	26.8	17.3	1440	12.9
T27279	22.4	0.17	2.6	0.045	2.43	28.5	38.3	0.54	338	1.42	1.78	19.2	5.6	1000	15.1
T27280	25.9	0.24	2	0.09	2.35	58.2	98.6	1.61	894	4.42	1.39	25.7	17.3	1460	13

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



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Page: 3 - C
Total # of Tests: 8 (A - D)
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CERTIFICATE OF ANALYSIS VA04041703

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W
		ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.2	% 0.005	ppm 0.02	ppm 0.1	ppm 1	ppm 0.1
T27241		138	<0.002	0.02	0.46	1	12.4	124.5	2.14	<0.05	23.7	0.43	0.68	3.6	67	5.8
T27242		172.5	<0.002	0.01	0.35	1	19.4	112	2.79	<0.05	25.2	0.475	0.83	4.3	73	16.9
T27243		119	<0.002	0.07	0.68	1	8.7	208	1.85	<0.05	16.9	0.384	0.81	6.1	74	6
T27244		55	<0.002	0.02	0.45	1	1	542	0.48	<0.05	6.8	0.214	0.26	3.3	39	0.7
T27245		81.3	<0.002	0.04	0.47	1	7.8	369	1.44	<0.05	10.6	0.442	0.43	4.7	78	5.9
T27246		121.5	<0.002	0.08	0.53	1	10.1	314	1.34	0.06	12.8	0.383	0.59	5.5	98	9.7
T27247		116	<0.002	0.08	0.38	1	8.9	287	1.52	<0.05	8.6	0.635	0.46	4.7	103	4.1
T27248		171.5	<0.002	0.04	0.44	2	9.6	247	2.05	0.05	13.6	0.726	0.68	3.9	135	3.7
T27249		53.2	<0.002	0.03	0.5	1	1.1	508	0.51	<0.05	5.4	0.232	0.24	2.1	40	0.6
T27250		163.5	<0.002	0.04	0.37	2	9.1	156.5	2.51	<0.05	10.6	1.135	0.63	2.4	167	3.4
T27251		175	<0.002	0.03	0.32	2	9.1	114.5	2.59	<0.05	12.8	1.26	0.65	2.8	185	3
T27252		95.9	<0.002	0.05	0.53	1	4.1	275	1.22	<0.05	13.4	0.48	0.4	2.9	102	2.4
T27253		163.5	<0.002	0.03	0.27	2	11.9	105	2.67	<0.05	11.6	1.06	0.61	2.4	158	4.2
T27254		183.5	<0.002	0.05	0.24	2	26.1	104.5	2.25	0.05	16.7	1.145	0.85	3.3	193	7.4
T27255		183.5	<0.002	0.02	0.28	2	14.3	116.5	2.6	<0.05	13.6	1.165	0.75	2.8	181	5.5
T27256		200	<0.002	0.02	0.46	2	22.6	174	2.56	0.06	14	0.867	0.86	4	192	24.7
T27257		93	<0.002	0.04	0.51	1	6.4	426	0.99	<0.05	8.7	0.36	0.47	3.2	76	4.6
T27258		155.5	<0.002	0.06	0.45	2	17.7	94.1	2.44	0.05	13.9	0.837	0.71	3.6	166	11.7
T27259		162.5	<0.002	0.07	0.49	2	12.7	187.5	2.2	0.08	18.8	0.402	0.78	6.9	90	8.3
T27260		202	<0.002	0.02	0.25	1	17.3	112.5	5.7	0.07	26.1	0.37	0.8	5.4	56	12
T27261		125.5	<0.002	0.03	0.41	1	12.3	84.9	2.52	<0.05	24.1	0.539	0.53	3.3	69	9
T27262		48.7	<0.002	0.09	0.47	1	1.5	458	0.51	<0.05	7.2	0.203	0.23	14.2	40	1.2
T27263		170.5	<0.002	0.03	0.56	1	12.5	84.1	2.59	0.05	22.6	0.632	0.76	4	110	6.4
T27264		170	<0.002	0.02	0.56	1	17	105.5	4.37	0.05	20.6	0.496	0.72	3.9	96	17.6
T27265		129	<0.002	0.01	0.43	1	13.4	135.5	2.45	<0.05	18.2	0.579	0.58	3.3	95	28.7
T27266		49.7	<0.002	0.01	0.44	1	1	671	0.49	<0.05	5.3	0.256	0.22	1.9	56	0.7
T27267		54.2	<0.002	0.01	0.48	1	0.8	627	0.47	<0.05	5.6	0.229	0.25	2.6	45	0.6
T27268		203	<0.002	0.02	0.53	1	11.6	116.5	2.14	<0.05	25.5	0.338	0.87	4	55	4.4
T27269		134.5	<0.002	0.09	0.49	1	7.6	148.5	1.49	0.05	12.8	0.356	0.57	10.2	69	3.6
T27270		122	<0.002	0.05	0.47	1	6.1	310	1.36	<0.05	16.1	0.274	0.57	6.8	47	2
T27271		138	<0.002	0.02	0.38	1	6.7	335	1.28	<0.05	14.7	0.259	0.64	3.1	40	1.9
T27272		116	<0.002	0.01	0.37	1	6.4	343	1.29	<0.05	13.6	0.284	0.55	3.1	40	2.2
T27273		75.8	<0.002	0.02	0.44	1	2.7	512	0.72	<0.05	7.7	0.242	0.36	3.8	45	1.2
T27274		161	<0.002	0.01	0.36	1	13.4	110.5	2.54	<0.05	16.7	0.73	0.78	4.1	130	8.4
T27275		148.5	<0.002	0.05	0.33	2	9.3	131.5	1.97	0.05	20.7	0.657	0.76	17.4	123	5.4
T27276		163	<0.002	0.04	0.28	2	11.3	133	2.29	0.05	19.9	0.792	0.72	7.7	135	6.4
T27277		141.5	<0.002	0.07	0.35	2	9.4	174	1.87	0.05	15.2	0.549	0.69	10.6	104	5.5
T27278		158.5	<0.002	0.04	0.25	2	10.6	139	1.92	<0.05	17.4	0.694	0.68	10	125	9.7
T27279		127	<0.002	0.02	0.35	1	8.1	211	1.59	<0.05	11	0.444	0.61	3	61	3.9
T27280		163.5	<0.002	0.04	0.26	2	10.1	135.5	1.87	<0.05	17.6	0.688	0.78	10.7	127	6

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



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C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: Shine

Page: 3 - D

Total # Cases: 8 (A - D)

Finalized Date: 19-JUL-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
T27241		16.7	33	60.5
T27242		16.4	52	46.9
T27243		17.4	50	81.1
T27244		8.7	46	132
T27245		22.8	55	106
T27246		18.9	75	87.3
T27247		29.8	84	77.6
T27248		35.4	108	66.5
T27249		8.9	44	124
T27250		64.8	116	52
T27251		72.1	129	42.3
T27252		26.1	66	90.9
T27253		54	109	49
T27254		58.2	127	41.4
T27255		65	112	47
T27256		47.6	137	55.9
T27257		15.3	69	119.5
T27258		38	108	41.8
T27259		24.8	75	69
T27260		25.9	65	35.6
T27261		22.8	42	48.3
T27262		14.3	41	107
T27263		27.2	74	48.4
T27264		17.9	59	50
T27265		22.1	42	58.9
T27266		8.9	47	128.5
T27267		8.3	47	139.5
T27268		13.7	36	75.1
T27269		23.3	53	57.4
T27270		14.8	46	99
T27271		9.3	31	108.5
T27272		10.5	32	113
T27273		10	41	123.5
T27274		32.6	85	49.2
T27275		47.8	104	55.9
T27276		46.9	108	54
T27277		36.1	93	63.6
T27278		43.9	104	54.6
T27279		17.2	38	77.5
T27280		42.7	105	56.3

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



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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: Shine

Page: 4 - A
Total # Tests: 8 (A - D)
Finalized Date: 19-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
T27281	0.26	0.04	6.56	1.9	710	4.84	2.56	0.9	0.23	96.6	5.9	29	16.55	9.3	2.44
T27282	0.28	<0.01	6.97	1.5	730	5.54	2.44	0.86	0.05	132.5	3.9	26	12.2	9.2	2.02
T27283	0.24	<0.01	6.92	2.1	580	4.99	1.92	1.02	0.12	108.5	6.8	32	12.5	9.3	3.19
T27284	0.34	<0.01	7.39	3	660	6.32	1.81	1.32	0.19	102	11.6	44	14.15	14.6	3.93
T27285	0.28	<0.01	7.61	2.1	600	6.51	2.51	1.02	0.12	94.8	7.6	29	16	12.4	2.84
T27286	0.22	<0.01	6.56	4.2	640	4.11	1.21	1.08	0.18	87.8	9.1	47	10.55	13.8	3.16
T27287	0.28	<0.01	7.23	1.9	570	6.12	1.62	1.68	0.19	88.6	10.7	45	13.85	12.9	3.91
T27288	0.16	<0.01	7.7	2.1	650	5.42	2.25	1.85	0.19	78	12.5	49	17.55	16.7	4.87
T27289	0.22	<0.01	7.03	2.2	610	5.05	4.03	2.09	0.27	74.7	15.4	54	16.2	19.8	5.73
T27290	0.20	<0.01	8	1.1	730	5.08	0.76	1.76	0.37	116.5	16.4	46	19.1	19.9	6
T27291	0.26	<0.01	7.67	1.1	690	4.7	0.73	1.74	0.35	115	16.2	46	17.85	19.3	5.83
T27292	0.26	<0.01	6.82	1.3	620	5.45	0.74	1.91	0.34	80.1	20.4	55	18.1	22.3	5.48
T27293	0.12	0.15	5.08	1.9	650	4.87	0.66	1.26	0.95	92.7	19.8	30	12.05	17.2	3.73
T27294	0.16	0.15	6.41	0.9	620	2.14	0.3	1.56	0.11	46.2	6.4	17	5.04	17.7	2.3
T27295	0.18	0.14	6.9	1.1	660	2.19	0.3	1.76	0.08	48.4	7.3	17	5.67	18.2	2.64
T27296	0.26	0.05	7.48	2.7	690	4.24	0.82	1.85	0.22	60.4	14.6	50	16.8	23	5.11
T27297	0.26	<0.01	7.63	2.9	730	3.84	0.73	2.09	0.25	62.2	14.8	47	13.3	21.9	4.96
T27298	0.42	<0.01	7.86	2.5	620	5.1	1.46	1.72	0.19	73.9	12.4	39	15.45	18.8	4.42
T27299	0.34	0.05	8.63	2	600	5.83	1.76	1.02	0.09	92.9	9.3	36	20.5	27.7	4.34
T27300	0.32	<0.01	7.29	2.4	620	4.4	1.08	1.66	0.28	65	10.8	41	13.5	17.2	4.22
T27301	0.20	0.03	6.58	1.8	560	3.98	1.06	1.37	0.15	69.4	7.1	37	9.63	15.2	3.16
T27302	0.16	0.06	7.67	2.5	660	4.25	1.74	1.27	0.19	67.7	6.6	22	17.1	17.3	2.65
T27303	0.24	<0.01	7.03	2.7	650	3.84	2.34	0.87	0.04	107.5	4.9	36	10.15	11.8	2.65
T27304	0.30	0.02	7.83	2.1	700	3.92	2.35	1.1	0.11	99.6	6.6	21	13.4	17.2	2.65
T27305	0.18	0.08	7.11	1	690	1.54	0.37	1.82	0.11	36.6	6.3	12	4.05	16.8	2.2
T27306	0.24	<0.01	7.28	3	660	3.31	4.24	0.81	0.03	90.5	5.2	36	14.65	11.6	2.91
T27307	0.16	0.05	6.97	1.4	760	1.48	0.29	1.55	0.05	39.9	4.7	11	3.43	15.7	1.81
T27308	0.26	0.02	6.68	2.3	640	2.97	1.08	1.12	0.06	68.1	5.5	31	10.45	11.2	2.58
T27309	0.20	0.04	7.63	1.7	780	1.97	0.74	1.76	0.04	44.6	6.1	10	8.53	16.8	2.1
T27310	0.30	<0.01	7.67	2.1	660	4.15	1.62	0.95	0.06	79	5.1	21	14.7	14.8	2.57
T27311	0.20	0.03	7.84	1.2	660	3.7	0.75	0.86	0.02	93	2.8	10	10.2	15.4	1.67
T27312	0.30	<0.01	7.84	1.7	560	4.31	1.02	2.02	0.23	80.1	21.5	71	17.3	24.4	6.27
T27313	0.34	0.03	7.91	1.5	610	3.87	1.05	2.26	0.12	74.5	20.9	69	19.45	22.8	6.49
T27314	0.38	0.02	7.89	2.3	690	5.57	1.74	1.89	0.22	108.5	24.3	73	25.4	33.4	6.69
T27315	0.32	0.06	8.35	2	660	5.01	1.06	2.03	0.19	101.5	24.1	74	19.05	35.5	6.99
T27316	0.42	0.07	8.06	1.9	660	4.32	0.83	1.86	0.15	100	22.9	71	18.55	33.1	6.84
T27317	0.40	0.04	7.5	1.2	580	3.48	0.52	2.44	0.15	94.5	24.7	58	20.5	28.6	7.21
T27318	0.30	0.13	6.99	2.3	630	3.4	0.72	1.72	0.19	77.7	15.4	57	14	23.8	5.58
T27319	0.34	0.1	7.27	1.9	670	3.49	0.83	1.58	0.16	91.7	17.2	54	16.4	31	5.69
T27320	0.34	0.15	7.9	1.1	710	4.04	0.97	1.42	0.09	102	23.4	79	26.8	35.9	6.96

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



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Project: Shine

Page: 4 - B
Total # Tests: 8 (A - D)
Finalized Date: 19-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
T27281	23.6	0.18	1.4	0.057	2.37	45.8	74.6	0.63	286	1.42	1.63	24.7	10.5	990	15
T27282	28.5	0.21	2.2	0.056	2.85	69.6	58.8	0.35	305	2.5	1.94	36.5	6.5	420	16.6
T27283	25.1	0.22	1.8	0.062	2.49	53.9	57.7	0.68	381	1.72	1.66	28.7	10.2	590	16.8
T27284	24.8	0.21	1.9	0.076	2.57	51.7	86.7	1.02	615	1.94	1.66	30.4	16.6	1250	16.6
T27285	26.3	0.2	2	0.061	2.84	48.1	93.8	0.74	477	2.18	1.66	27.8	11.3	1060	19.2
T27286	21.9	0.2	2.4	0.06	2.1	43.5	61.4	0.82	503	1.66	1.59	28.9	15.9	940	15
T27287	24.3	0.2	1.9	0.081	2.1	41.8	71.2	1.08	632	1.44	1.96	31	16.5	1260	11.5
T27288	24.7	0.21	1.9	0.083	2.09	36.4	66.8	1.31	773	1.9	1.75	32.6	16.6	1680	11.2
T27289	23.9	0.19	2	0.095	1.82	30.8	58.6	1.45	933	2	1.68	37.6	18.8	2160	10.3
T27290	30	0.26	1.8	0.108	2.33	47.5	97.7	1.75	877	1.74	1.78	41.1	18.3	1750	8.6
T27291	27.9	0.24	1.6	0.102	2.23	45.2	92.1	1.72	849	1.62	1.73	39.6	17.6	1700	8.5
T27292	22.4	0.24	2	0.093	1.77	37.6	72.9	1.54	1370	1.52	1.48	31	18.9	2130	8.7
T27293	17.15	0.14	1.4	0.081	1.08	36.6	33.3	0.78	3880	1.86	1.14	20.9	10.3	4560	11.2
T27294	16.7	0.1	3.2	0.035	1.6	28.5	26.7	0.67	425	1.56	1.92	8.7	7.2	1900	7.7
T27295	17.95	0.13	3.3	0.036	1.68	28.4	29.5	0.78	486	1.64	2.07	9.5	8	1680	8.2
T27296	24.1	0.16	1.9	0.098	1.96	27.2	60.7	1.38	732	1.82	1.8	30.8	20.6	1360	11.8
T27297	23.3	0.17	2.1	0.086	2.12	28.8	68.2	1.41	789	1.74	1.94	28.8	20.9	1390	11.8
T27298	25.8	0.19	1.6	0.09	2.43	36	76.3	1.21	719	1.62	1.99	31.3	17.3	1140	13.6
T27299	31.8	0.2	1.9	0.085	2.53	45.9	135.5	1.02	471	3.7	1.48	31.9	13.7	980	13.1
T27300	25	0.18	1.6	0.079	2.19	30.3	58.4	1.08	619	2.02	1.87	28.8	15.8	600	13.7
T27301	23.3	0.16	1.9	0.073	1.89	33.8	41.7	0.75	428	2.18	1.71	26.2	14.6	1480	13.4
T27302	25.1	0.17	2.7	0.05	2.06	32.5	88.4	0.86	380	2.06	1.87	16.9	11.8	1000	14
T27303	29.9	0.18	1.9	0.054	2.37	52.9	48.1	0.48	304	2.15	1.56	31.6	10.6	570	18
T27304	27.2	0.18	2.6	0.057	2.71	45	74.4	0.65	389	3.77	1.82	22.2	9.3	960	18.6
T27305	18.6	0.1	3.6	0.028	1.81	18.6	25.7	0.71	350	1.65	2.28	7.4	6.9	870	10.4
T27306	25.5	0.16	2.4	0.048	2.29	44.9	75	0.54	325	2.2	1.49	24.6	10.6	940	17.6
T27307	18.15	0.11	3.8	0.025	2.07	20.7	21.7	0.51	339	1.74	2.23	9.4	4.7	620	9.9
T27308	23.1	0.15	2.2	0.055	2.23	33.4	40.3	0.62	379	1.81	1.7	22.2	8.8	980	14.1
T27309	21.6	0.14	3.8	0.026	2.16	22.8	44.1	0.7	356	2.23	2.37	10.5	5.4	580	10.5
T27310	26.4	0.15	2.5	0.052	2.77	38	81.9	0.56	329	2.58	1.81	23.6	7.6	640	18.8
T27311	26.8	0.16	3.2	0.041	2.89	45.1	51.9	0.3	349	2.82	1.82	18.8	3.5	800	20.5
T27312	25.6	0.2	1.4	0.119	2.46	37.6	102	2.14	930	2.11	1.61	27.8	26.2	1220	12.7
T27313	26	0.21	1.6	0.11	2.49	34.2	77.4	2.12	969	2.44	1.57	28	23.8	1500	11.4
T27314	27.3	0.27	1.9	0.131	2.92	49.5	116.5	1.97	1220	2.51	1.33	32.9	27.8	1460	10.4
T27315	27.8	0.24	1.9	0.128	2.75	46	88.8	2	1130	2.89	1.45	33.4	26.2	1740	10.8
T27316	26.8	0.27	1.8	0.125	2.76	46.6	88.2	2.05	1070	3.09	1.21	30.5	26.6	1570	10
T27317	27.1	0.25	1.4	0.123	2.73	41.8	103	2.25	1080	2.35	1.46	35.1	24.5	2300	8.6
T27318	22.9	0.27	2.2	0.1	1.93	38.2	67.4	1.52	1280	3.58	1.25	25.9	19	1940	10.2
T27319	24.9	0.24	2.2	0.104	2.46	43.8	64	1.78	911	3.21	1.15	26.8	21.4	1720	10.8
T27320	28.9	0.28	1.8	0.125	2.81	60.3	83.5	2.31	1005	4.86	0.84	26.5	25	1490	10

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



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Project: Shine

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CERTIFICATE OF ANALYSIS VA04041703

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
Sample Description															
T27281	198	<0.002	0.05	0.43	2	14.5	102	2.25	0.05	26.3	0.377	0.81	3.5	66	6.7
T27282	171.5	<0.002	0.01	0.47	1	17	96.3	4.32	0.07	32	0.602	0.68	4.7	65	18.4
T27283	169.5	<0.002	0.02	0.42	1	13.5	90.8	2.54	<0.05	22.9	0.555	0.7	4.2	83	9.5
T27284	182.5	<0.002	0.01	0.47	2	13.1	110	2.49	<0.05	22.3	0.597	0.8	6.7	100	6
T27285	205	<0.002	0.02	0.41	1	12.1	124	2.37	0.05	23.2	0.425	0.83	7.7	67	5
T27286	125	<0.002	0.03	0.93	2	9.6	153.5	3.59	0.05	19.3	0.516	0.56	3.8	96	5.6
T27287	142.5	<0.002	0.04	0.36	2	14.3	110.5	2.75	0.06	19	0.721	0.59	3.7	104	7.3
T27288	157	<0.002	0.06	0.49	2	14.6	129	2.47	0.07	15.6	0.86	0.66	3.6	127	13.2
T27289	122.5	<0.002	0.05	0.51	2	14.6	115	2.66	0.15	11.4	1.125	0.53	2.9	165	8.3
T27290	179	<0.002	0.03	0.32	2	15.7	136	2.9	<0.05	17.8	1.005	0.7	3.6	148	8.7
T27291	170	<0.002	0.03	0.3	2	14.9	130.5	3.04	<0.05	16.2	0.953	0.66	3.4	146	18.8
T27292	119	<0.002	0.08	0.37	2	12.8	156	2.42	<0.05	12.1	0.947	0.55	3.1	150	40.4
T27293	71	<0.002	0.26	0.5	2	8	87.3	1.72	<0.05	13.9	0.541	0.65	4.1	92	4.1
T27294	45.1	<0.002	0.11	0.42	1	2.9	428	0.77	<0.05	9.8	0.298	0.27	3.8	60	2.7
T27295	47.7	<0.002	0.1	0.39	1	3.3	463	0.83	<0.05	9.9	0.336	0.28	3.5	70	2.9
T27296	99.9	<0.002	0.05	0.45	2	12.9	165	2.22	<0.05	9.8	0.892	0.67	2.6	146	10.6
T27297	98.8	<0.002	0.03	0.45	2	11.3	198	2.19	0.05	9.1	0.842	0.54	2.6	137	4.1
T27298	133.5	<0.002	0.03	0.31	2	13.4	126	2.87	<0.05	14.4	0.747	0.71	3.6	108	4.6
T27299	182.5	<0.002	0.03	0.36	2	17.9	179	2.8	0.07	21.7	0.465	1.02	8.7	81	7.7
T27300	121	<0.002	0.02	0.36	1	14.2	114.5	2.5	0.06	12.6	0.749	0.58	3.2	114	10.3
T27301	88	<0.002	0.06	0.38	2	13.4	120.5	2.29	<0.05	16	0.63	0.54	4.1	93	10.2
T27302	114	<0.002	0.05	0.5	2	10.3	305	1.56	<0.05	16.8	0.321	0.63	5	59	6.3
T27303	111	<0.002	0.02	0.57	2	15.8	96.3	3.18	0.07	24	0.619	0.8	4.4	102	14.3
T27304	152.5	<0.002	0.03	0.46	1	10.9	248	1.98	<0.05	21.3	0.347	0.81	5.3	60	4.3
T27305	51.1	<0.002	0.05	0.41	1	3	512	0.66	<0.05	7.9	0.276	0.29	2.7	57	1.4
T27306	121	<0.002	0.02	0.64	1	11.1	178	2.46	0.07	20.8	0.41	0.81	4.3	79	4.5
T27307	58.9	<0.002	0.02	0.5	1	2.8	451	0.84	<0.05	7.6	0.264	0.33	2.4	47	1.4
T27308	114	<0.002	0.03	0.43	1	9.7	169.5	2.05	<0.05	14.6	0.477	0.57	3.1	79	4.3
T27309	75.9	<0.002	0.03	0.42	1	4.2	506	0.91	<0.05	9.8	0.245	0.41	3.7	46	1.2
T27310	164.5	<0.002	0.02	0.35	1	12.3	194	2.34	<0.05	19.4	0.322	0.89	6	50	4
T27311	150.5	<0.002	0.02	0.37	1	9.6	245	1.97	<0.05	24.7	0.226	1.12	4.9	32	2.3
T27312	141.5	<0.002	0.02	0.25	2	9.9	111	2.1	<0.05	14.6	0.923	0.75	3.4	175	26.1
T27313	127.5	<0.002	0.03	0.28	2	10.5	118.5	2.17	<0.05	14	1.04	0.74	3.2	199	22.7
T27314	175.5	<0.002	0.02	0.34	2	15.1	107	2.52	<0.05	17	1.05	1.04	4.1	187	11.4
T27315	153	<0.002	0.03	0.31	2	11.7	111	2.44	<0.05	16.9	1.09	0.97	4.2	190	13.6
T27316	154	<0.002	0.02	0.24	2	10.2	101.5	2.42	<0.05	16.2	1.055	0.96	4.3	190	4.3
T27317	163	<0.002	0.02	0.2	2	8.9	121.5	2.44	<0.05	12.4	1.22	0.81	3.5	199	3.6
T27318	95.3	<0.002	0.12	0.38	2	8.7	113.5	1.99	<0.05	17	0.839	0.53	7.2	158	23.5
T27319	116.5	<0.002	0.09	0.38	2	7.6	134.5	1.93	<0.05	16.4	0.832	0.65	4.6	142	3.5
T27320	172.5	<0.002	0.08	0.24	2	8.3	92.6	1.84	0.05	16.6	0.86	0.94	5.6	181	3.8

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

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
T27281		16.9	53	37.3
T27282		28.5	37	59.4
T27283		26.4	53	45.9
T27284		37.6	82	48.5
T27285		28.6	64	48.6
T27286		24	67	68.1
T27287		37.7	66	49.5
T27288		41.4	81	52
T27289		52.1	93	54.8
T27290		47.1	114	52.6
T27291		46.1	110	42.9
T27292		48.1	103	56.8
T27293		32.4	69	41.2
T27294		16.6	48	94.1
T27295		17	52	98.8
T27296		39.3	86	54.8
T27297		41.5	91	62.7
T27298		40.3	84	41.9
T27299		24.5	80	52.4
T27300		30.1	71	42.3
T27301		29	50	52.4
T27302		17.3	61	79.8
T27303		22.9	44	51.8
T27304		20.6	63	76.4
T27305		9.9	47	107
T27306		15.7	50	69.1
T27307		8.8	43	118.5
T27308		19.7	49	63.2
T27309		9.5	47	122
T27310		15	55	68.1
T27311		13	39	89.4
T27312		40.4	117	37.1
T27313		42.4	98	41.2
T27314		51.7	128	51.9
T27315		50.6	113	53.1
T27316		47.6	115	47.1
T27317		61.1	121	35.8
T27318		41.8	91	56.2
T27319		42.9	94	64.3
T27320		41.8	123	49.7

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



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Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
T27321	0.34	0.12	8.28	1	700	4.33	1.05	1.51	0.12	105	29.5	83	25.8	40.6	7.27
T27322	0.28	0.06	6.83	1.5	550	3.35	0.65	1.9	0.33	70	23.7	77	25.7	35.1	6.74
T27323	0.36	0.04	7.56	1	940	4.37	1.32	1.08	0.29	141.5	20	56	16.6	47.3	6.05
T27324	0.38	0.04	8.38	1.3	1000	3.85	1.1	1.14	0.18	144.5	17.7	51	13.2	41.3	5.99
T27325	0.36	0.04	8.27	0.9	930	5.38	0.96	1.08	0.14	150.5	18	53	17.2	34	6.1
T27326	0.36	0.08	7.61	1	870	4.33	1.08	1.2	0.15	124.25	19	51	19.9	33.7	5.87
T27327	0.38	0.06	8.35	1.2	740	4.63	1.62	1.6	0.32	149	25.5	75	24.3	34.5	7.23
T27328	0.32	0.1	8.26	1.4	820	4.54	1.36	1.28	0.18	158.5	21.4	61	21.6	32.1	6.34
T27329	0.38	0.02	8.07	1.4	920	4.93	1.48	1.1	0.15	135	17	52	17.85	24	6.01
T27330	0.44	<0.01	8.43	1	1070	4.51	0.95	0.94	0.15	147.5	15.1	47	14	24.8	5.94
T27331	0.40	0.08	8.11	0.9	470	8.35	1.68	2.03	0.15	121	23.4	55	38.7	57.7	7.51
T27332	0.34	0.04	7.85	1.4	590	3.98	0.59	2.64	0.2	88.7	32.8	76	21	54.3	9.05
T27333	0.24	0.08	7.63	1	600	3.8	0.73	1.92	0.16	99.2	31.1	84	25.6	47.7	8.66
T27334	0.44	0.08	7.49	2.1	680	4.94	1	2.01	0.22	82.1	16.8	64	22.5	28.8	5.94
T27335	0.30	0.06	7.9	1	570	4.96	0.84	1.78	0.25	112.5	31.8	100	46.9	37.7	8.07
T27336	0.30	0.08	6.7	1.8	630	3.24	0.75	1.45	0.22	75	14	51	14.8	21.9	5.25
T27337	0.38	0.07	6.5	1.6	570	4.33	1.16	1.58	0.14	59.8	8.6	38	12.7	17.8	4.01
T27338	0.30	0.09	6.84	1.2	680	1.73	0.38	1.6	0.14	47.8	7.3	23	5.8	17	2.76
T27339	0.36	0.03	7.55	1.9	650	3.82	1	1.61	0.16	82.8	12.3	44	12.8	19.2	4.5
T27340	0.42	0.04	7.63	1.4	640	4.78	1.04	0.63	0.04	124	3.7	26	15	11.1	2.1
T27341	0.34	0.02	7.71	1.5	750	4.87	1.36	0.63	0.07	94.5	5.2	45	17.45	13.1	2.61
T27342	0.26	<0.01	8.09	1.5	860	3.11	0.72	1.12	0.17	137	18.9	66	6.92	36.7	6.2
T27343	0.40	0.08	8.59	6.4	830	3.91	3.7	0.22	0.6	178.5	6.6	15	9.97	17.8	3.72
T27344	0.34	0.13	8.35	6.6	850	3.87	3.3	0.38	0.33	199.5	8.4	19	9.4	26.3	3.9
T27345	0.34	0.09	8.27	5.3	930	3.28	2.65	0.72	0.41	199	11.1	23	7.39	32.8	4.33
T27346	0.42	0.12	8.21	3.9	830	3.86	2.79	0.47	0.6	199.5	11.4	18	8.63	25.9	3.85
T27347	0.32	0.07	8.44	4.7	1000	3.7	1.99	0.58	0.22	243	13.6	30	9.57	46.7	4.98
T27348	0.52	0.1	8.46	5.7	860	4.02	2.1	0.43	0.31	219	11.2	21	9.55	27.5	4.53
T27349	0.28	0.04	7.06	2.4	600	3.49	1.14	0.69	0.04	100.5	3.9	26	16.65	7	2.6
T27350	0.34	0.05	7.66	1.2	910	3.56	1.86	1.1	0.04	137	5.4	15	10.15	14.8	1.71
T27351	Not Recvd														
T27352	0.28	<0.01	7.56	2	590	3.83	1.45	1	0.08	114	5.2	20	14.35	15.4	2.67
T27353	0.18	0.07	7.08	1.4	800	1.15	0.14	1.68	0.07	32.4	4.4	4	1.72	16.8	1.63
T27354	0.36	0.03	8.08	0.7	540	5.05	0.81	0.48	<0.02	89.5	1.4	14	15.7	3.8	1.1
T27355	0.28	0.08	7.79	0.8	570	4.61	0.64	0.69	0.22	105	1.6	17	9.47	6.4	0.94
T27356	0.30	0.04	7.97	0.7	590	4.52	0.57	0.59	0.15	109	1.3	18	9.69	5.7	0.83
T27357	0.16	0.04	7.67	1.5	700	2.25	0.73	1.02	0.09	58	3.4	13	12.4	12.6	1.91
T27358	0.24	<0.01	6.84	1.3	660	2.8	1.4	0.69	0.06	82.5	2.6	16	10.9	10.7	1.63
T27359	0.20	0.05	6.91	1.3	660	2.8	0.87	1.1	0.14	64	4.3	17	10.9	15.6	2.05
T27360	Not Recvd														

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



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Project: Shine

Page: 5 - B
Total # Tests: 8 (A - D)
Finalized Date: 19-JUL-2004
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CERTIFICATE OF ANALYSIS VA04041703

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
T27321		30.2	0.32	1.9	0.136	2.98	65.4	93.1	2.47	1335	4.28	0.86	28.7	29.8	1460	9.9
T27322		24.9	0.27	1.7	0.103	2.4	33	81.7	2.07	1140	2.81	0.92	26.3	27.1	1650	8.4
T27323		29.4	0.35	2.5	0.146	3.6	82.7	61.2	2.24	1525	3.09	0.84	31.7	23.9	2040	10.6
T27324		29.9	0.31	2.9	0.136	3.48	84.9	55.1	2.15	1455	3.14	1.1	28.8	21	1650	9.9
T27325		29.1	0.33	2.7	0.144	3.41	82.1	63.9	2.21	1115	3.57	1.01	30.4	21.2	1480	9.2
T27326		28.5	0.32	2.3	0.143	3.33	83.9	65.5	2.11	1055	4.62	1.02	26.5	21	1580	9.7
T27327		29.7	0.37	2.2	0.144	3.22	81.2	86.7	2.6	1660	2.68	0.87	30	27.6	1830	10.5
T27328		29.5	0.35	2.3	0.141	2.91	90.4	77.1	2.38	1335	2.8	1.03	26.6	24.9	1470	11
T27329		29.4	0.29	2.8	0.129	3.18	85.4	72.9	2.17	1165	3.21	1.36	29.6	21.7	1610	9.6
T27330		30.8	0.3	2.6	0.143	3.38	90.6	61.9	2.07	1205	2.15	1.41	32.1	19.2	1560	8.8
T27331		29	0.25	2.2	0.154	2.16	51.3	159	1.8	1765	2.59	1.52	37.3	26.3	1380	7.3
T27332		27.2	0.26	1.3	0.128	2.42	46.4	113.5	2.89	1410	2.15	1.3	29.5	30.7	2330	9
T27333		28.2	0.26	1.2	0.122	2.63	51.4	108.5	2.81	1355	3.69	1.01	27.6	30.2	1640	8.8
T27334		25.3	0.26	1.9	0.112	2.3	38.8	77.5	1.79	1020	2.07	1.48	28.8	21.8	1980	10.5
T27335		29	0.27	1.3	0.129	2.93	46.9	150	2.34	1510	2.22	1.03	30	31.1	2770	8.2
T27336		22.5	0.2	1.9	0.104	2.34	38.4	53.9	1.6	819	2.2	1.05	24.1	18.2	1440	11.2
T27337		20.9	0.2	1.6	0.075	1.89	28.4	42.9	1.02	619	1.96	1.57	26	12.8	1750	11.6
T27338		18.5	0.15	3.4	0.043	1.86	25.6	25	0.81	415	1.75	1.94	10.8	9.3	1870	9.6
T27339		23.6	0.2	2	0.086	2.47	41.1	58.4	1.4	745	1.88	1.63	23.4	16.6	1520	11.8
T27340		27.5	0.21	1.5	0.049	2.75	63.7	71.7	0.44	225	1.54	1.93	32.4	8.6	480	17.7
T27341		25.2	0.22	1.6	0.055	2.61	50.1	74.2	0.55	304	2.27	1.47	24.9	12	410	16.5
T27342		24.8	0.3	2.5	0.113	2.67	76.2	42.2	2.32	1325	2.74	0.74	22.5	25.9	1480	10.3
T27343		29.4	0.34	4.5	0.157	4.21	112.5	53.2	1.72	842	11.55	0.27	23	8.1	840	21.7
T27344		29.7	0.37	4.3	0.158	3.67	134.5	49.9	1.5	785	14.15	0.57	23	9.8	830	36.4
T27345		26.8	0.36	4.7	0.164	3.58	120	44.9	1.68	1040	9.18	0.95	21.3	10.7	880	14.9
T27346		28.7	0.35	4.7	0.18	4.26	90	59.8	1.72	1040	9.5	0.54	23.6	8.1	870	19.2
T27347		27.5	0.39	4.5	0.182	3.78	137.5	48.5	1.82	1185	12.65	0.82	22.1	13.3	1000	12.6
T27348		30.1	0.37	4.6	0.186	4.27	109.5	49.2	1.94	1075	13.35	0.49	22.5	10.6	970	17.6
T27349		27.2	0.19	1.3	0.046	2.08	48.4	64.6	0.63	250	1.73	2.01	25.5	7.3	380	13.2
T27350		24.7	0.18	2.7	0.039	2.39	65.4	54.5	0.51	233	1.96	1.92	17.5	5.4	810	13.2
T27351																
T27352		25.3	0.21	2.6	0.053	2.64	56.8	78.4	0.59	409	3.88	1.77	23.7	7.4	950	18.8
T27353		16.75	0.12	4.4	0.017	2.2	18.4	18.8	0.48	351	1.8	2.56	5.4	3.1	420	9.6
T27354		31.5	0.17	1.6	0.058	3.53	46.1	87.9	0.28	93	0.75	1.7	24.6	3.9	240	27.5
T27355		24.4	0.17	2.5	0.039	3.03	53.3	56.5	0.19	145	1.28	1.84	19.3	3.4	1240	26.3
T27356		26.3	0.16	2.6	0.039	3.34	57.1	59.8	0.17	107	1.32	1.88	20.9	3.5	910	27.6
T27357		23.2	0.13	3.4	0.034	2.41	30.2	52	0.41	348	1.99	1.85	16	4.2	840	16.8
T27358		22.5	0.15	2.5	0.039	2.56	42.5	50.7	0.29	187	2.13	1.43	21.8	4.1	610	17.9
T27359		21	0.14	2.9	0.035	2.03	32.4	63.9	0.55	274	2.46	1.67	14.8	6.8	1100	12.6
T27360																

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



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Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Tl % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
T27321		176.5	<0.002	0.06	0.24	2	8.7	92.8	2.04	0.06	17	0.953	0.95	5.9	191	3.9
T27322		145	<0.002	0.08	0.29	2	8.8	90.2	1.88	0.05	10.9	1.11	0.89	3	199	3.6
T27323		141.5	<0.002	0.04	0.19	2	8.6	99.8	2.4	0.06	21.4	0.766	0.79	5.7	122	7.8
T27324		153.5	<0.002	0.04	0.2	2	7.7	177	2.02	0.05	20.4	0.704	0.73	5.6	120	3.8
T27325		157	<0.002	0.11	0.19	2	8.2	122	2.26	0.05	23.3	0.736	0.73	6.2	126	4.5
T27326		145.5	<0.002	0.14	0.12	2	8.3	117	2	0.05	24.8	0.663	0.76	6.6	123	3.5
T27327		177.5	<0.002	0.06	0.19	2	8.5	97.1	2.1	0.07	20	0.855	0.85	6.5	154	7
T27328		158.5	<0.002	0.07	0.26	2	8	133.5	1.75	0.06	21	0.688	0.77	6.6	140	3.4
T27329		141.5	<0.002	0.04	0.19	2	8.8	95.2	2.21	0.06	25.9	0.726	0.77	5.5	129	4.3
T27330		145.5	<0.002	0.03	0.13	2	8.5	81.1	2.26	<0.05	30.5	0.697	0.71	5.4	115	4.5
T27331		157	<0.002	0.03	0.21	2	21.3	81.4	3.03	<0.05	15.6	0.877	0.9	7.1	193	3.9
T27332		155	<0.002	0.05	0.17	2	8	124.5	2.12	<0.05	9.3	1.265	0.83	3.1	235	3.6
T27333		166.5	<0.002	0.07	0.21	2	8	93.8	1.98	<0.05	11.9	1.11	0.9	3.9	221	2.3
T27334		127.5	<0.002	0.06	0.46	2	16.4	119.5	2.32	<0.05	13.7	0.928	0.72	3.6	168	19
T27335		219	<0.002	0.04	0.22	2	14.9	99.9	2.27	<0.05	12.2	1.165	1.25	4.2	218	6.2
T27336		100.5	<0.002	0.08	0.32	2	7.8	96.5	1.88	<0.05	15.5	0.777	0.57	4	134	17
T27337		101.5	<0.002	0.07	0.32	2	14.4	104	2.2	<0.05	15	0.705	0.53	4.5	110	6.7
T27338		64	<0.002	0.08	0.45	1	3.2	400	0.93	<0.05	9.8	0.367	0.37	3.6	75	1.5
T27339		117	<0.002	0.04	0.31	2	10.5	164	2.23	<0.05	17	0.648	0.64	3.9	116	4.6
T27340		151	<0.002	0.02	0.36	1	15.7	91.7	5.43	<0.05	29.5	0.408	0.78	4.9	55	10.6
T27341		149	<0.002	0.01	0.35	1	13.5	100.5	2.61	<0.05	21	0.471	0.81	4.4	87	7.9
T27342		142.5	<0.002	0.06	0.25	2	5.5	166	1.79	<0.05	17	0.713	0.7	5.2	156	2.3
T27343		170	<0.002	0.19	0.26	2	11.6	52.4	2.14	0.07	45.8	0.292	1.02	9.8	43	8.4
T27344		168	<0.002	0.21	0.36	3	10.4	102	2.09	0.08	44.8	0.326	0.95	9.3	53	5.2
T27345		151	<0.002	0.17	0.39	2	8.9	184.5	1.84	0.07	38.7	0.396	0.85	9.8	67	5.2
T27346		148	<0.002	0.21	0.26	2	11.2	101.5	2.09	0.06	36.5	0.378	1	10.8	55	20.4
T27347		166.5	<0.002	0.23	0.56	3	9.5	150.5	1.88	0.09	49.4	0.429	1.04	12.9	76	4.8
T27348		146	<0.002	0.24	0.27	2	10.6	100.5	2.12	0.06	44.6	0.36	0.99	11.8	62	5.2
T27349		107	<0.002	0.02	0.4	1	15	80.1	2.29	<0.05	26	0.431	0.6	3.3	75	5.9
T27350		98.6	<0.002	0.03	0.4	1	11.1	287	1.55	0.06	22.6	0.293	0.52	3.3	50	3.9
T27351																
T27352		155	<0.002	0.03	0.42	1	10.5	214	2.41	<0.05	21.2	0.332	0.8	6.2	53	3.1
T27353		47.2	<0.002	0.02	0.46	1	0.9	551	0.49	<0.05	5.7	0.202	0.28	4	36	0.5
T27354		232	<0.002	0.01	0.26	1	15.5	91	2.48	<0.05	23.8	0.232	1.36	4.5	28	3.1
T27355		174.5	<0.002	0.03	0.34	2	11.8	128.5	2.02	<0.05	26.3	0.245	1.02	4	32	2.3
T27356		188	<0.002	0.02	0.32	1	12.2	117.5	2.19	<0.05	29.3	0.245	1.08	4.1	30	2.4
T27357		112.5	<0.002	0.03	0.62	1	7.1	328	1.57	<0.05	13.4	0.234	0.65	5.2	40	2.1
T27358		124	<0.002	0.03	0.41	1	12	182.5	2.18	<0.05	20.8	0.297	0.74	4.6	49	16.4
T27359		95.5	<0.002	0.08	0.41	1	8.2	316	1.46	<0.05	15.4	0.244	0.62	6.7	47	4.4
T27360																

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



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
T27321		47.6	136	48.9
T27322		44.1	109	42.1
T27323		54.8	162	69.1
T27324		48.1	151	82.9
T27325		47.4	136	75.3
T27326		48.4	132	61.1
T27327		61.1	138	61.5
T27328		53.5	138	65.7
T27329		46	131	74.7
T27330		44.9	132	72.5
T27331		50.3	77	55.6
T27332		57.4	164	29.4
T27333		45.9	152	31.4
T27334		42.7	110	50.6
T27335		49.5	128	35.4
T27336		36.9	120	50.7
T27337		34.8	64	42.5
T27338		14.8	55	104
T27339		33.3	82	53.7
T27340		19.2	41	37.9
T27341		17.1	48	44.3
T27342		43.7	170	73
T27343		38.2	247	115
T27344		39.1	209	117
T27345		36.4	188	132.5
T27346		41.8	237	128
T27347		48.9	190	124
T27348		49.6	201	121
T27349		15.6	33	33
T27350		14	43	77.7
T27351				
T27352		19	57	70.6
T27353		7.9	46	135
T27354		9.7	30	40
T27355		10.9	31	64
T27356		10.8	28	64.3
T27357		9.5	49	102.5
T27358		11	37	69.8
T27359		11.4	46	85.4
T27360				

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Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
T27361	0.32	<0.01	7.84	2.4	690	5.93	1.58	0.91	0.13	106.5	7.7	26	22.3	12.3	2.9
T27362	0.30	<0.01	7.08	2.6	610	5.34	1.42	1.14	0.17	102	7.4	29	12.4	10.2	3.08
T27363	0.44	<0.01	7.13	1.6	560	4.54	1.74	0.96	0.07	105	4.9	20	13.1	9.5	2.4
T27364	0.30	<0.01	7.1	1.9	680	4.08	1.66	1.22	0.14	93.5	6.5	39	19.5	11.4	3.17
T27365	0.34	0.04	6.86	2	650	3.81	1.79	1.06	0.12	84.3	5.4	36	18.6	11.8	2.85
T27366	0.34	<0.01	7.08	2.5	590	4.36	0.94	1.08	0.12	67.9	7.2	36	12.35	11.2	2.85
T27367	0.32	0.04	7.16	3.4	630	4.67	1.02	1.18	0.2	99.2	8.1	38	11.45	11	2.99
T27368	0.34	0.05	6.13	0.5	390	3.42	0.33	0.36	0.1	124.5	0.9	13	6.07	4.3	0.72
T27369	0.38	0.02	7.68	2.6	630	5.37	1.52	1	0.14	96.7	8.4	41	16.7	11.6	3.05
T27370	0.40	<0.01	8.35	2.9	630	7.14	1.99	0.97	0.13	137	10.6	36	20.4	17.6	3.38
T27371	0.28	0.03	8.46	1.9	750	3.1	0.79	1.5	0.05	88	5.6	10	7.97	19.1	2.34
T27372	0.20	<0.01	9.6	2.1	590	6.74	1.68	0.49	0.26	165.5	11.6	50	20.3	24	3.49
T27373	0.22	0.06	9.32	1.5	620	5.7	1.68	0.64	0.06	143	8.2	57	32.9	20.8	4.04
T27374	0.30	<0.01	7.16	0.3	360	2.47	0.21	0.25	0.03	61.6	0.9	6	8.2	3.6	0.73
T27375	0.20	0.37	7.43	1.3	1050	1.84	0.5	1.62	0.14	41.8	6.3	17	6.63	20.4	2.21
T27376	0.26	0.07	8.56	1.3	760	2.33	0.72	1.35	0.09	55.8	4.2	7	6.72	11.6	1.84
T27377	0.34	0.16	7.6	2.3	530	4.29	2.27	0.54	0.09	88.3	4.2	24	15.7	6.8	3.22
T27378	0.42	0.03	7.08	2.5	580	4.04	0.89	0.68	0.06	99.1	4.8	24	12.6	8.8	1.97
T27379	0.48	0.03	8.45	2.2	410	6.29	3.08	0.48	0.17	113	6	27	25.6	19.7	3.32
T27380	0.28	0.06	6.75	2.4	570	3.67	1.36	0.77	0.08	97.2	3.9	20	11.35	11.4	1.87
T27381	0.30	0.02	10.6	1.2	550	6.25	1.59	0.65	0.06	221	18.6	86	33.9	51.9	6.03
T27382	0.32	0.03	9.79	2.5	590	5.28	0.81	0.64	0.07	233	16.6	75	32.8	36.3	5.29
T27383	0.34	0.04	10.7	1	850	5.08	0.93	0.49	0.07	197.5	24	91	30.3	44.7	5.8
T27384	0.26	0.02	10.7	1.8	750	6.2	0.94	0.52	0.05	196.5	14.4	81	36.3	37	4.91
T27385	0.26	<0.01	9.4	1.2	440	8.17	1.62	0.55	0.05	241	7.6	38	26.7	20.9	3.88
T27386	0.26	0.21	7.31	2.2	540	4.61	1.98	2.14	0.28	76.8	17.6	54	25.9	23.9	7.09
T27387	0.30	0.1	6.8	1.3	490	3.27	0.9	1.44	0.16	78.6	12.4	45	15.85	19.8	5.47
T27388	0.22	0.14	7.79	1.8	850	1.39	0.27	1.76	0.09	39.6	5	8	2.89	19.4	1.85
T27389	0.16	0.1	7.81	2.9	690	3.95	1.66	0.55	0.12	112	3.6	29	13	8.9	2.38
T27390	0.44	0.03	11.55	1.9	870	6.7	0.53	0.48	0.05	209	31.5	97	46.3	49.4	6.56
T27391	0.38	0.05	8.69	2.3	470	8.67	3.9	0.77	0.08	127	6.4	37	24.6	24.9	3.07
T27392	0.26	0.08	7.94	1.2	570	6.77	2.34	1.16	0.07	69.9	6.5	35	19.5	19.3	2.87
T27393	0.30	0.04	7.59	1.8	550	6.75	2.07	0.84	0.12	99.1	7.7	32	16.9	18.5	2.8
T27394	0.36	0.02	9.11	1.9	600	7.15	2.05	0.8	0.11	128.5	12.2	67	32.2	33.4	4.25
T27395	0.38	<0.01	8.63	3	670	6.54	1.54	0.8	0.07	152.5	12.9	55	21.6	22	3.63
T27396	0.22	0.1	7.31	1.6	780	1.71	0.18	1.9	0.06	34.3	5.2	7	2.16	16.2	1.74
T27397	0.34	0.09	6.11	2.5	650	3.89	1.13	0.68	0.23	80.3	4.6	41	12.95	14.2	2.12
T27398	0.30	0.03	7.43	5.7	690	3.86	1.36	0.75	0.2	120	7.9	56	10.45	14.7	3.3
T27399	0.36	0.1	6.5	1.9	510	4.08	2.24	0.81	0.14	100.5	6.1	38	12.5	14.3	2.68
T27400	0.36	0.37	6.53	3	630	3.45	1.52	0.69	0.08	90.8	3.8	31	12.35	10	2.28

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



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CERTIFICATE OF ANALYSIS VA04041703

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
T27361	28.5	0.19	1.9	0.071	2.59	50	143	1	584	1.71	2.08	25.9	11.8	880	16
T27362	22.6	0.21	1.8	0.064	2.15	52	69.9	0.77	463	1.58	1.83	25.2	12.8	640	15.8
T27363	23.8	0.18	1.9	0.05	2.37	51.1	72.3	0.6	344	1.4	1.94	24.1	7.7	860	14.6
T27364	26.1	0.18	1.6	0.071	2.31	46.4	55.3	0.78	443	2.13	1.71	28.1	11.4	440	15.2
T27365	24.5	0.18	2	0.062	2.25	41.6	50.4	0.67	391	2.29	1.64	27.8	10.5	680	14.8
T27366	21.7	0.17	1.6	0.059	2.29	35	70.6	0.79	385	1.32	1.86	21.1	14.3	800	14.8
T27367	22.3	0.22	1.8	0.06	2.29	47.7	75.3	0.81	450	1.24	1.93	22.9	15.8	820	15.2
T27368	20.5	0.15	1.6	0.025	2.21	59.9	31.8	0.12	58	0.98	1.9	17.2	2.5	1000	13.1
T27369	25.9	0.18	1.7	0.066	2.49	46.4	102.5	0.83	422	1.64	1.85	24.9	16.3	850	16.3
T27370	30.6	0.26	2.1	0.074	2.72	69.4	153	0.91	691	2.69	1.86	29.1	17.2	970	19.4
T27371	24.5	0.17	4.1	0.032	2.47	46.1	64.8	0.59	417	2.41	2.42	15.4	5.4	780	13.7
T27372	32.9	0.28	1.8	0.07	2.83	84	151.5	0.5	690	2.25	1.31	27.2	20.1	1120	31.2
T27373	28.9	0.27	1.9	0.069	2.22	70.5	141	0.73	349	3.43	1.14	23.5	17.4	1280	21.5
T27374	25.4	0.15	1.6	0.039	3.25	28.3	62.9	0.2	63	2.23	1.31	23.3	1.2	410	11.8
T27375	19.1	0.13	3.4	0.035	2.18	20.6	32.1	0.76	391	2.28	2.13	11	9	950	10.2
T27376	22.5	0.16	3.7	0.022	2.52	28.3	75.3	0.48	365	1.48	1.84	9.6	3.2	690	16.3
T27377	26.9	0.21	1.8	0.057	2.55	43.6	96.2	0.45	237	1.56	1.11	21.8	7	400	34.7
T27378	24	0.18	1.8	0.043	2.58	47.4	66.7	0.48	323	1.44	2.1	21	9.6	840	16.4
T27379	30	0.21	1.6	0.059	2.27	60.1	123	0.61	298	3.09	1.13	27.5	10.7	1560	18.4
T27380	22.5	0.21	2.1	0.039	2.41	46.9	56.4	0.44	255	1.59	1.87	20.2	7.3	1140	15.4
T27381	33.5	0.41	0.7	0.095	2.71	90	183	1.06	839	3.96	0.96	24.3	42.9	1340	31.4
T27382	28.8	0.38	1.1	0.08	2.59	118	145	0.95	753	1.56	1.08	26.4	40.5	760	29.4
T27383	31.2	0.37	0.6	0.097	2.73	80	230	1	1095	0.85	1.15	24.6	49.4	780	36.5
T27384	31.4	0.38	1.4	0.079	2.8	102	185.5	0.74	705	13.9	0.99	25.3	33.9	1040	25.3
T27385	33.9	0.35	1	0.072	2.97	122.5	205	0.62	466	4.69	1.62	36.1	17.1	890	25.2
T27386	25.6	0.26	1.2	0.102	1.98	34.1	103	1.86	933	1.62	1.26	33.7	18	1470	14.4
T27387	23.4	0.31	1.5	0.081	1.82	34.6	73.6	1.32	785	1.3	0.99	26.5	14.2	2770	11.8
T27388	19.05	0.24	4.4	0.021	2.17	20.7	22.8	0.52	468	1.94	2.5	7	4.5	820	12.6
T27389	29.7	0.24	2.3	0.052	2.72	53.4	70.9	0.36	186	1.36	1.32	24	9	530	27.6
T27390	34.2	0.43	0.3	0.1	3.07	70	248	0.92	904	10.5	0.93	27.6	70.8	940	42.7
T27391	28	0.26	2.8	0.061	2.42	62.4	188.5	0.55	399	1.52	1.39	28	19.5	970	29.8
T27392	22.7	0.24	2.6	0.044	1.82	33.8	104.5	0.59	424	1.56	1.56	16.2	14.6	1620	20.6
T27393	23.2	0.23	1.8	0.055	2.41	50.8	98.9	0.51	351	1.68	1.54	19.8	16.9	1010	22
T27394	28.8	0.28	1.4	0.075	2.21	65	156	0.65	637	1.52	0.97	25	31.5	1270	23.6
T27395	25.2	0.28	1.6	0.065	2.59	74.2	110	0.74	720	1.34	1.53	23.6	27.4	720	24.1
T27396	18.55	0.17	4.2	0.018	2.04	17.8	19.3	0.57	401	1.72	2.5	5.7	4.5	740	9.4
T27397	18.85	0.18	2.1	0.044	2.03	39.2	37.3	0.4	644	1.92	1.15	18.6	13	1850	24.1
T27398	22.3	0.24	1.9	0.06	2.33	59.8	68.5	0.72	486	1.58	1.26	21.3	20.3	1070	23.4
T27399	20.7	0.21	1.3	0.076	2.14	47.1	70.3	0.64	285	1.36	1.35	18	15.6	1170	19.4
T27400	22.4	0.2	1.5	0.048	2.28	42.6	54.8	0.48	221	1.57	1.46	20	10.8	740	18

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



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Project: Shine

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CERTIFICATE OF ANALYSIS VA04041703

Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Rb	Ra	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V	W	
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR	0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	
Sample Description																
T27361	165.5	<0.002	0.02	0.36	1	17.9	123	2.5	0.05	28.9	0.414	0.92	5.2	65	9.6	
T27362	128	<0.002	0.02	0.39	1	13.7	105.5	2.43	0.05	25.7	0.498	0.66	4.2	74	8.1	
T27363	127.5	<0.002	0.02	0.27	2	13.8	128	2.53	<0.05	27.9	0.439	0.67	4.4	57	8.7	
T27364	155.5	<0.002	0.02	0.46	2	15.7	111.5	2.6	0.05	20.6	0.63	0.68	3.5	102	9.1	
T27365	141.5	<0.002	0.03	0.53	1	14.6	108	2.81	<0.05	20.9	0.586	0.71	3.7	96	9.8	
T27366	114	<0.002	0.03	0.37	1	12.8	127	2.06	0.05	16.4	0.434	0.67	2.9	75	13.2	
T27367	125	<0.002	0.02	0.45	1	12.4	109.5	2.05	<0.05	23.6	0.493	0.69	3.5	80	8.7	
T27368	96.7	<0.002	0.08	0.18	2	9.1	68.3	3.43	<0.05	36.1	0.196	0.54	4.2	23	2.7	
T27369	156	<0.002	0.02	0.37	1	15.1	108.5	2.71	<0.05	26.3	0.442	0.86	4.4	76	20	
T27370	187	<0.002	0.01	0.38	2	15.3	153.5	2.85	0.05	33.9	0.406	0.99	7.6	67	14.3	
T27371	101.5	<0.002	0.02	0.43	2	5.7	449	1.52	<0.05	17.4	0.26	0.55	5.4	41	2.7	
T27372	212	<0.002	0.03	0.3	1	14.3	152	2.64	0.05	33	0.447	1.15	12.6	73	7.1	
T27373	169	<0.002	0.05	0.31	2	10.4	162	2.14	0.05	28.7	0.451	1.06	12.2	87	6.4	
T27374	201	<0.002	0.01	0.23	1	9.7	87.2	2.27	<0.05	17	0.135	0.95	2.5	15	5.7	
T27375	79.5	<0.002	0.03	0.47	1	4.5	456	0.89	<0.05	7.7	0.309	0.46	3.8	78	2.2	
T27376	115	<0.002	0.02	0.54	1	4.5	435	0.97	<0.05	11.6	0.241	0.71	3.4	41	2	
T27377	171	<0.002	0.02	0.39	1	12.9	102	2.01	<0.05	22.1	0.343	1.16	5.1	60	5.9	
T27378	143	<0.002	0.04	0.38	2	11	99.4	1.97	<0.05	28.6	0.316	0.75	3.9	51	5.8	
T27379	173.5	<0.002	0.05	0.27	1	14.8	88.6	3.09	0.07	31.9	0.311	1.02	11.1	50	7.9	
T27380	128	<0.002	0.06	0.45	1	9.7	139.5	2.16	<0.05	26.4	0.31	0.7	4.5	48	5.8	
T27381	178.5	<0.002	0.04	0.17	2	7.4	155	1.92	0.09	47	0.531	1.03	11	114	5.3	
T27382	175.5	<0.002	0.02	0.35	2	13.4	118	2.79	<0.05	41.1	0.576	1.04	7.3	108	6.2	
T27383	161	<0.002	0.02	0.18	1	7.5	172	1.9	0.07	37.8	0.643	1.05	9.8	119	6.2	
T27384	211	<0.002	0.07	0.34	2	11.7	168.5	2.32	0.07	32.9	0.583	1.29	9.5	110	10	
T27385	245	<0.002	0.02	0.27	2	16.9	82.3	3.34	<0.05	63.3	0.406	1.34	11.1	57	6.5	
T27386	148	<0.002	0.02	0.34	2	14.8	120.5	2.58	0.05	12.2	1.27	0.89	3.2	213	6.7	
T27387	132	<0.002	0.06	0.31	2	8.3	116	2.11	0.05	13.7	0.909	0.78	3.7	140	35.8	
T27388	55.8	<0.002	0.03	0.48	1	1.6	528	0.63	<0.05	6.8	0.221	0.34	2.9	39	2.5	
T27389	186	<0.002	0.02	0.5	1	13.5	121	2.33	<0.05	26.5	0.359	1.12	4.7	68	4.4	
T27390	211	<0.002	0.02	0.11	2	8.8	228	2.12	0.06	39.9	0.811	1.23	7	134	4.2	
T27391	197	<0.002	0.03	0.29	1	19.9	160.5	3.18	<0.05	28.8	0.382	1.38	6.5	54	52.3	
T27392	110	<0.002	0.08	0.35	1	10.4	267	1.81	<0.05	14.9	0.339	0.8	7	64	26.7	
T27393	157.5	<0.002	0.05	0.36	1	11.7	163.5	2.35	<0.05	22.9	0.35	0.9	6.3	58	16.1	
T27394	175	<0.002	0.06	0.41	1	17.1	173.5	2.34	0.05	22.6	0.494	0.94	5.9	97	19.4	
T27395	169.5	<0.002	0.01	0.39	1	12.5	142	2.41	<0.05	30	0.472	0.99	5.6	85	13.4	
T27396	48.5	<0.002	0.03	0.64	1	1.1	567	0.51	<0.05	5.8	0.215	0.34	3	39	1	
T27397	134.5	<0.002	0.08	0.81	1	8.3	140	1.7	0.05	16.3	0.341	0.6	6	71	5.5	
T27398	142.5	<0.002	0.02	0.76	1	8.4	125	1.94	<0.05	26.4	0.388	0.8	4.6	80	6.6	
T27399	143	<0.002	0.04	0.31	1	11.9	101.5	1.68	0.06	23.4	0.298	0.87	4.3	72	10.7	
T27400	147.5	<0.002	0.04	0.56	1	9.6	118	1.71	<0.05	21	0.311	0.74	4.1	59	3.8	

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



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Project: Shine

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CERTIFICATE OF ANALYSIS VA04041703

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
T27361		24.8	61	47.4
T27362		28.2	55	45.4
T27363		23.2	45	50.2
T27364		27.3	55	44.5
T27365		24.4	53	53.9
T27366		20.8	52	42.7
T27367		26.9	59	47.4
T27368		11.8	16	42.6
T27369		25	61	44.3
T27370		27.4	72	56.7
T27371		15.2	56	128
T27372		20.7	91	47.8
T27373		20.5	66	53
T27374		7.3	23	38.1
T27375		12.6	71	105.5
T27376		8.3	53	116
T27377		14.2	54	47.4
T27378		16	43	49.2
T27379		21.2	67	40.7
T27380		15.6	39	61.5
T27381		31.4	106	20.6
T27382		26.5	99	27.9
T27383		21.8	112	16.6
T27384		18.8	84	41.2
T27385		26.6	83	25.5
T27386		49.4	134	27.7
T27387		32.3	80	43.4
T27388		9.5	50	144.5
T27389		13.8	61	61.3
T27390		23.2	125	8.4
T27391		20.5	77	69.3
T27392		14.6	62	75.6
T27393		18.6	68	52
T27394		17.8	91	39.1
T27395		22.6	77	44.3
T27396		8.4	44	132.5
T27397		14.2	57	62.8
T27398		19.6	82	50
T27399		16.7	53	33.4
T27400		14.4	43	39.7

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



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CERTIFICATE OF ANALYSIS VA04041703

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
T27401		0.44	0.06	7.48	4.3	890	4.72	1.8	0.97	0.32	134.5	10.1	49	9.51	18.4	2.95
T27402		0.26	<0.01	8.52	2.3	630	7.33	3.02	0.71	0.13	180	11.6	78	36.7	40.6	4.43
T27403		0.34	0.07	8.23	2.9	690	8.54	2.16	0.76	0.09	148.5	9.9	51	18.45	23.2	3.16
T27404		0.30	0.1	7.53	1.3	670	2.54	0.39	2.42	0.11	43.5	11.2	16	3.29	19.5	2.97
T27405		0.36	0.11	7.04	3.1	590	6.12	1.66	0.87	0.11	102	7.4	37	11.85	19.2	2.63
T27406		0.38	0.13	6.83	5	640	5.77	1.84	0.67	0.16	137	12	53	12.8	18	3.19
T27407		0.36	0.16	7.73	2.1	770	3.48	0.81	1.46	0.11	66	7.1	20	6.55	17.2	2.29
T27408		0.50	0.07	7.39	5.5	740	4.9	1.61	0.56	0.15	115	7.4	41	9.59	11.3	2.5
T27409		0.50	0.03	6.75	3.5	570	4.56	1.47	0.53	0.11	125.5	4.5	26	9.6	7.4	2.2
T27410		0.38	0.05	7.18	3.9	590	5.33	5.81	0.68	0.21	113.5	7.8	35	8.39	8.9	2.31
T27411		0.34	0.06	8.15	1.5	630	6.84	3.13	0.98	0.27	93.3	21	74	33	38.3	6
T27412		0.30	0.04	8.59	3.4	790	7.07	2.35	0.62	0.08	197.5	11.6	63	22.3	25.7	3.56
T27413		0.42	0.03	8.94	1.7	500	9.81	2.56	0.56	0.06	104.5	3.4	21	19.55	6.7	2.06
T27414		0.40	0.02	8.21	2.7	750	7.17	1.81	0.61	<0.02	177	8	49	15.2	13.3	2.88
T27415		0.40	0.04	8.17	2.8	740	7.59	1.74	0.63	0.06	199.5	8.4	49	15.2	14	2.9
T27416		0.40	0.05	7.5	2.2	900	5.35	1.01	0.63	0.08	141	3.7	21	7.73	7.8	1.82
T27417		0.36	0.03	6.93	1.5	810	4.41	0.57	0.52	0.06	106.5	2.2	20	8.42	5	1.02
T27418		0.38	0.02	6.73	3	650	5.19	2.1	0.53	0.08	167	3.1	29	10	6.2	1.66
T27419		0.30	0.04	8	3.2	1030	3.29	1.08	0.68	0.25	117	10.6	59	6.91	34	4.21
T27420		0.42	0.04	6.87	3.1	1120	3.02	0.79	0.62	0.22	121	9.5	39	3.55	19	3.24
T27421		0.52	0.04	6.97	3.3	1060	3.43	0.57	0.6	0.18	127.5	9.7	39	3.5	17.2	3.3
T27422		0.48	<0.01	7.31	2.9	990	3.55	0.5	0.71	0.19	152.5	9.6	39	3.95	15.6	3.33
T27423		0.52	0.07	8.02	2.4	1050	4.56	0.81	1.04	0.15	191	18	75	22	19.2	5.45
T27424		0.38	0.07	7.93	3.1	860	4.71	0.51	1.4	0.14	187.5	20.8	61	13.1	16.5	5.38
T27425		0.50	0.05	7.56	3.2	840	3.75	0.29	0.85	0.16	144	10.2	38	5.37	11.3	3.27
T27426		0.40	0.07	7.36	2.9	890	4.4	0.5	0.92	0.18	175.5	14.9	48	9.47	22.6	4.2
T27427		0.42	0.05	7.33	3.4	1050	4.49	0.42	1.44	0.16	148.5	17.6	47	5.27	17.8	5.54
T27428		0.46	0.02	7.12	3.9	1080	2.97	0.63	0.84	0.19	121	12	48	4.48	18.9	4.07
T27429		0.50	0.05	7.82	3.4	1110	3.69	0.61	0.95	0.14	137	13.3	54	5.25	27.3	4.36
T27430		0.42	0.05	7.95	2.6	880	3.75	0.78	0.57	0.12	132	12	34	5.58	71.4	4.37
T27431		0.48	0.05	7.68	2.9	970	3.59	0.65	0.42	0.1	114	7.5	27	5.6	47.7	3.44
T27432		0.42	0.06	7.77	4	990	3.55	0.92	0.36	0.13	106.5	6.6	31	6.42	49	3.51
T27433		0.42	0.04	7.66	4.3	1130	3.67	1.22	0.38	0.2	140	8.9	30	6.76	42.3	3.46
T27434		0.44	0.07	7.09	3.5	900	3.32	1.9	0.37	0.16	97.2	6.8	31	8.83	40	3.42
T27435		0.40	0.1	7.97	4.5	980	3.91	0.93	0.39	0.24	132	7.8	31	7.35	48.2	3.32
T27436		0.52	0.07	6.85	2.8	910	2.83	0.83	0.26	0.14	76.6	5.1	31	5.83	19	2.64
T27437		0.38	0.07	6.97	3.2	950	3.52	2.45	0.36	0.13	113	5.6	26	6.48	30.2	2.85
T27438		0.48	0.07	7.45	3.8	1070	3.96	2.02	0.54	0.18	119.5	8.6	33	5.7	33.3	3.15
T27439		0.46	0.08	7.03	5.4	1160	2.84	1.32	0.58	0.13	104	9.5	42	4.29	21.9	4.14
T27440		0.56	0.04	7.02	5.4	1140	2.67	1.08	0.53	0.09	115	8.8	38	3.68	17.3	3.76

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



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Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
T27401	20.6	0.26	2.1	0.059	2.28	65.7	86.7	0.81	469	1.36	1.38	20	23.2	1120	28.6
T27402	28.6	0.31	1.4	0.075	2.16	87.4	130	0.71	438	1.49	0.98	24.7	37.9	950	22.3
T27403	27.8	0.24	2.2	0.061	2.62	75.5	139	0.62	427	1.35	1.59	23	24.8	610	22.3
T27404	21.4	0.18	4.1	0.031	1.72	22.1	30.8	1.06	422	1.36	2.39	7.5	10.8	1420	9.5
T27405	23.1	0.21	2.5	0.046	2.16	51.9	86.9	0.48	315	1.53	1.56	23.8	18	1180	20.2
T27406	22.6	0.24	2.1	0.052	1.98	68.2	93.1	0.51	643	1.53	1.2	20.4	23.7	1090	24.8
T27407	23.5	0.17	3.8	0.033	2.03	33.2	51.8	0.61	325	1.6	2.16	12.8	9.5	840	15.9
T27408	25.3	0.2	2.3	0.048	2.41	56.6	79.8	0.48	268	1.56	1.5	21.8	17.4	700	20.6
T27409	24.4	0.21	2.1	0.043	2.29	63.1	69.3	0.38	239	1.36	1.56	20.4	11	670	22.2
T27410	22.8	0.19	1.8	0.054	2.39	55.2	87.9	0.44	447	1.27	1.61	19.6	15.2	1850	23.8
T27411	29.7	0.25	1.3	0.235	2.01	47.3	173	1.2	697	3.07	0.74	18	44.1	1710	13
T27412	27.4	0.29	2	0.062	2.64	102.5	159	0.76	456	1.34	1.37	23.6	30	640	20.4
T27413	32.2	0.2	3.7	0.06	2.76	52.8	190.5	0.4	152	0.77	1.46	25	8.4	930	32.8
T27414	28.2	0.25	2.9	0.06	2.72	90.9	143	0.67	284	1.32	1.48	28.7	19.2	480	23.3
T27415	28.8	0.3	3.2	0.062	2.72	101	137	0.65	291	1.44	1.51	30.1	19.6	520	23.5
T27416	26.2	0.22	2.3	0.035	2.86	70.5	73.7	0.35	180	1.24	1.84	22.9	8.5	640	19
T27417	23.7	0.18	2.1	0.026	2.88	53.6	55.6	0.22	126	0.92	1.81	17.6	6.2	540	18.1
T27418	26.7	0.24	2.4	0.039	2.6	84.7	67.6	0.26	180	1.34	1.61	22.6	8.1	590	22.4
T27419	26.7	0.27	3.9	0.099	2.88	67.3	45.9	1.58	712	2.45	0.93	22.9	23	1040	12.1
T27420	23.4	0.26	3.5	0.094	3.12	59.8	34.3	1.13	620	1.86	0.93	24.1	18.8	800	10.5
T27421	24.9	0.26	3.5	0.091	3.18	66.8	40.4	1.1	643	1.9	0.98	25.3	18.4	720	10.6
T27422	25	0.28	3.3	0.089	2.75	80.2	40.6	1.16	597	1.52	1.76	24.8	17.8	880	10.1
T27423	31	0.4	3.8	0.109	2.93	119.5	71.5	2.19	903	1.12	1.53	31.9	41.8	1420	9.3
T27424	28.2	0.37	3.1	0.098	1.89	111	57.8	1.97	986	0.93	2.33	30.9	28	1460	8.8
T27425	26	0.27	3	0.075	1.73	70.8	38.4	1.12	520	0.87	2.84	25.4	16.6	810	9
T27426	28	0.33	3	0.092	2.05	93.5	44.5	1.53	671	0.78	1.75	24.7	23.2	1140	8.7
T27427	27	0.34	3	0.121	2.25	75.9	39.8	1.85	1110	0.94	1.15	33	20.9	1960	10.1
T27428	25	0.26	3.4	0.101	3.17	60.1	39.9	1.38	728	1.72	0.88	26.2	20.5	1050	10.7
T27429	25.8	0.31	3.6	0.102	3.12	70.6	48.6	1.56	939	1.62	0.97	24.8	23.6	1100	9.9
T27430	29	0.36	3.4	0.121	2.73	81.9	54.4	1.65	840	2.02	1.01	24.2	14.2	690	8.1
T27431	28.6	0.25	3.6	0.139	3.61	53.1	53.9	1.43	652	2.33	0.76	24.2	12	570	9
T27432	28.2	0.25	4.4	0.146	3.3	54	51.7	1.37	597	3.19	0.61	25	14.2	550	9.6
T27433	26.8	0.29	4.3	0.136	3.37	64.5	49.8	1.38	695	3.48	0.66	24.7	15.2	520	10.3
T27434	26.8	0.23	5.2	0.148	3.29	43.6	52.3	1.39	645	3.65	0.52	26.3	12.8	530	9.6
T27435	29	0.26	4.6	0.159	3.52	60.6	63.1	1.34	590	4.44	0.63	25.6	15	510	10.5
T27436	26.7	0.18	5.1	0.123	3.26	34.5	35.2	1.01	566	5.71	0.6	23.5	16.8	1520	10.7
T27437	26.7	0.22	4.9	0.132	3.21	53.9	43.3	1.21	474	5.78	0.7	23.5	11.2	490	10.3
T27438	26.7	0.25	4.4	0.141	3.46	59.8	46.8	1.27	579	5.09	0.82	23.4	16.9	620	10.2
T27439	24.8	0.31	4.5	0.123	3.26	64.4	39.3	1.07	654	5.34	0.83	26.5	15.5	660	11.8
T27440	23.4	0.32	4.4	0.129	3.41	67.1	33.1	1.1	593	4.93	0.95	25.4	14	620	11

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



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Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
Sample Description															
T27401	141	<0.002	0.02	0.68	2	9.5	138	1.9	<0.05	25.8	0.38	0.84	5.8	88	10.6
T27402	178	<0.002	0.04	0.58	2	18.8	155.5	2.81	0.05	33.5	0.497	1.18	6.7	98	24
T27403	188	<0.002	0.02	0.51	2	13.7	172.5	2.71	<0.05	33	0.424	1.07	6	72	24
T27404	56.8	<0.002	0.04	0.46	2	2.4	614	0.69	<0.05	7.3	0.391	0.3	2.7	91	1.3
T27405	136	<0.002	0.05	0.51	2	9.4	187	2.67	<0.05	23.4	0.368	0.76	5.6	64	8.5
T27406	132	<0.002	0.04	0.74	2	9.2	118	2.94	<0.05	30.8	0.43	0.81	5	86	17.7
T27407	95.6	<0.002	0.04	0.52	2	5.5	419	1.3	<0.05	13.4	0.293	0.53	3.2	58	6.9
T27408	169	<0.002	0.03	0.79	2	8.5	116.5	2.18	<0.05	29.5	0.343	0.9	4	73	3.7
T27409	165	<0.002	0.02	0.59	2	8.7	101	1.95	<0.05	32.5	0.264	0.84	4.7	46	5.5
T27410	166	<0.002	0.02	0.54	2	8.8	105	1.87	0.09	27.9	0.254	0.83	5	49	9.3
T27411	234	<0.002	0.01	0.24	3	25.6	105.5	1.58	0.07	15.7	0.416	1.33	6.3	148	15.6
T27412	203	<0.002	0.02	0.49	2	12.8	144.5	2.62	0.05	42.4	0.468	1.15	7.3	83	10
T27413	253	<0.002	0.02	0.23	2	18.2	128.5	3.2	<0.05	27.1	0.31	1.52	4.8	38	12.2
T27414	206	<0.002	0.01	0.46	3	12.9	141	3.04	0.05	41.5	0.437	1.04	6.3	71	7.5
T27415	205	<0.002	0.01	0.47	2	12.9	142	3.16	<0.05	47.2	0.454	1.09	7.2	71	7.7
T27416	155	<0.002	0.02	0.43	2	9.2	142.5	2.19	<0.05	37	0.294	0.73	4.9	44	4.2
T27417	165	<0.002	0.02	0.38	2	8	108.5	1.67	<0.05	27.3	0.256	0.77	3.4	42	3.9
T27418	161.5	<0.002	0.03	0.52	2	10.8	107	2.31	<0.05	43.9	0.335	0.86	5.4	55	6.4
T27419	144.5	<0.002	0.05	0.52	3	6.8	163	1.7	0.05	24.2	0.515	0.67	4.8	95	3.7
T27420	124.5	<0.002	0.02	0.46	2	6.9	82.7	1.8	<0.05	26.3	0.433	0.51	3.7	74	3.1
T27421	131.5	<0.002	0.02	0.46	2	6.9	86.5	1.87	<0.05	27.8	0.425	0.55	4.1	72	3.2
T27422	117	<0.002	0.01	0.44	2	6.3	98.5	1.8	<0.05	33.1	0.448	0.51	4.4	73	2.7
T27423	157.5	<0.002	0.01	0.43	3	7.9	113.5	2.11	<0.05	32.1	0.641	0.75	6	108	19.1
T27424	92.8	<0.002	0.01	0.46	3	6.9	125	2.16	<0.05	28.4	0.698	0.46	4.1	124	4.7
T27425	76.4	<0.002	0.02	0.45	2	5.6	105	1.84	<0.05	32.1	0.438	0.35	3.5	82	1.8
T27426	98.8	<0.002	0.03	0.45	2	7.3	104	1.65	<0.05	31.7	0.517	0.48	3.6	105	2.9
T27427	110.5	<0.002	0.03	0.5	3	6.2	140	2.11	<0.05	22.6	0.82	0.51	3.5	114	1.9
T27428	139.5	<0.002	0.02	0.56	2	6.8	107.5	1.98	<0.05	24.5	0.562	0.61	3.7	97	2.9
T27429	150.5	<0.002	0.02	0.52	3	6.8	121.5	1.85	<0.05	23.7	0.585	0.62	4.7	103	3
T27430	133	<0.002	0.02	0.32	2	7.1	70.3	1.75	<0.05	28.7	0.473	0.53	5.3	85	3.2
T27431	146.5	<0.002	0.04	0.39	2	8.8	72.2	1.94	<0.05	26.7	0.376	0.65	4.7	62	3.7
T27432	153.5	<0.002	0.07	0.56	2	9	72.8	1.97	<0.05	26.5	0.367	0.67	5.1	66	4
T27433	159	<0.002	0.03	0.54	2	8.7	75.1	2.04	<0.05	32	0.377	0.68	4.9	66	3.5
T27434	156.5	<0.002	0.04	0.43	2	9.2	92.1	2.12	0.06	23.7	0.385	0.71	4.7	58	4.4
T27435	163	<0.002	0.05	0.47	3	9.7	113	1.98	<0.05	30.6	0.349	0.68	5.6	64	16
T27436	145.5	<0.002	0.09	0.46	2	8.8	94.3	2.06	<0.05	33.2	0.268	0.6	5.6	44	3.2
T27437	148.5	<0.002	0.1	0.37	2	9.2	83.6	2	0.05	26.7	0.336	0.63	5.1	52	5
T27438	156.5	<0.002	0.06	0.54	2	8.9	99.4	1.99	0.05	27.8	0.357	0.68	4.8	65	3.6
T27439	136	<0.002	0.13	0.77	2	8.1	92.7	1.88	<0.05	25.8	0.51	0.66	5	91	3.4
T27440	126.5	<0.002	0.15	0.6	2	8.2	83.2	2.28	<0.05	29.5	0.434	0.7	4.8	81	3.9

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



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
T27401		24.4	96	53.9
T27402		22.3	100	37.8
T27403		18.7	73	52.5
T27404		11.1	56	106
T27405		19.4	58	62
T27406		17.8	65	48.6
T27407		11.1	46	101
T27408		14.6	60	53.3
T27409		14.6	35	46.3
T27410		22.1	69	39.9
T27411		27.5	96	28.4
T27412		22	73	48.1
T27413		15.6	61	80.8
T27414		19.9	60	67.3
T27415		21.8	60	74
T27416		15.6	33	55.7
T27417		11.6	33	47.7
T27418		16.1	34	54.7
T27419		30.1	165	100
T27420		26.5	99	81.5
T27421		27.8	91	82.3
T27422		31.5	85	81
T27423		49.8	120	94.8
T27424		48.4	89	70.9
T27425		26.2	64	69.9
T27426		32.5	81	73.9
T27427		51.3	97	72.6
T27428		34	102	82.2
T27429		38.2	100	83.2
T27430		28.9	102	82
T27431		23.2	94	83.7
T27432		22.6	100	102
T27433		25.9	109	97.1
T27434		23.5	90	117
T27435		27	121	102
T27436		16	79	117
T27437		18.6	88	114.5
T27438		22.5	99	97.4
T27439		26.2	79	105
T27440		23	71	101

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



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Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
T27441	0.48	0.1	7.03	3	980	2.41	0.76	0.7	0.09	78.4	6	25	3.81	14.9	2.9
T27442	0.48	0.1	7.33	2.9	1110	3.72	0.54	0.48	0.13	132.5	13.6	51	5.15	16.3	4.08

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



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
T27441		15.2	66	108.5
T27442		27.9	77	159

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



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This report is for 162 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-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
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

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

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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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North Vancouver BC V7J 2C1 Canada

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C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: Shine

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Total # of Pages: 6 (A - D)
Finalized Date: 18-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041704

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
Sample Description	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
BB38329	0.22	0.07	7.64	6	520	4.41	0.75	2.66	0.25	79.4	24.8	64	16.25	21.6	6.64
BB38330	0.28	0.09	8	4.7	620	5	1.04	1.6	0.11	110.5	17.8	46	16.9	27.7	5.01
BB38331	0.18	0.07	7.53	3.1	800	2.37	0.53	1.68	0.06	41.2	5	9	3.45	19.2	1.64
BB38332	0.18	0.18	5.91	3	680	2.92	0.97	0.81	0.11	72.5	5.8	43	12.35	13.4	1.97
BB38333	0.26	0.09	6.47	2.6	650	3.76	0.87	0.92	0.1	90.7	7.4	31	9.17	7.7	3.21
BB38334	0.26	0.1	7.57	2.7	540	4.65	1.7	1.62	0.14	110	17.2	54	13.65	14.2	5.45
BB38335	0.24	0.05	7.48	2.6	670	3.47	0.69	1.59	0.15	81.3	16.2	67	9.79	15.2	5.08
BB38336	0.20	0.04	6.61	1.8	480	3.71	0.79	1.47	0.12	65.2	15.6	47	12.5	13.5	4.8
BB38337	0.24	0.08	6.73	3.3	540	4.35	0.85	1.39	0.2	70.7	18.6	57	17.85	18	5.4
BB38338	0.24	0.05	7.56	2.1	580	4.48	1.13	1.43	0.17	77.1	15	49	17.3	11.9	5.64
BB38339	0.12	0.2	6.68	1.8	540	4.35	0.93	1.49	0.68	96.7	14.2	39	13.7	17.8	4.32
BB38340	0.16	0.1	7.42	2.9	750	2.18	0.56	1.29	0.11	44.4	7.7	19	6.41	22	2.61
BB38341	0.24	0.09	6.65	2.4	650	3.65	0.86	0.87	0.09	104.5	5.9	28	11.65	6.6	2.68
BB38342	0.22	0.02	6.88	4.2	700	2.73	1.28	0.7	0.15	73.8	12.2	51	10.6	14.4	6.08
BB38343	0.26	0.06	6.76	2.8	670	2.97	0.8	0.72	0.18	86.5	9.3	40	11.45	12	4.07
BB38344	0.18	0.12	6.83	4.3	700	2.89	0.73	0.63	0.14	65.6	9.2	46	11.2	11.8	3.64
BB38345	0.18	0.12	5.9	2.5	660	2.94	1.01	0.82	0.14	82.1	6.9	36	10.5	8.7	2.72
BB38346	0.20	0.07	6.98	2	760	2.03	0.3	1.57	0.13	47.6	7.2	17	4.59	13.7	2.4
BB38347	0.24	0.11	6.95	2.2	640	3.77	1.66	0.45	0.04	116.5	3.8	35	9.18	7	1.7
BB38348	0.24	0.03	7.18	2	640	4.66	1.28	0.71	0.06	117	5	27	12.65	7.3	2.42
BB38349	0.18	0.1	7.2	2.4	590	3.95	1.41	0.6	0.07	107	6	37	13	8.3	2.83
BB38350	0.28	0.15	7.66	3	640	4.5	1.29	0.38	0.16	87.1	7.2	39	11.45	5.8	3.8
BB38351	0.24	0.05	7.36	0.9	630	4.41	0.78	0.56	0.07	109	2.7	17	11.75	3.7	1.27
BB38352	0.22	0.15	7.06	0.8	550	3.15	0.34	1.9	0.15	63.4	14.9	37	9.63	15.6	4.17
BB38353	0.26	0.14	7.81	1.1	540	4.08	0.43	2.48	0.2	86.8	20.5	47	12.15	19.8	5.66
BB38354	0.24	0.18	7.1	3.1	560	4.17	0.98	1.78	0.22	66	19.6	66	15.9	16.3	6.1
BB38355	0.24	0.11	6.79	2.4	670	3.42	0.85	1.21	0.13	98.7	10.8	81	18.3	5.7	4.53
BB38356	0.18	0.21	7.12	1.7	640	4.72	0.99	1.78	0.21	78.2	15.5	50	17.45	15.9	4.67
BB38357	0.24	0.14	6.2	2.2	640	3.36	0.67	1.28	0.14	85.1	6.1	34	9.43	6.6	2.44
BB38358	0.22	0.17	7.69	2	630	6.29	1.12	1.82	0.19	98.4	16.2	44	20.6	17.2	4.55
BB38359	0.18	0.1	7.54	2.7	680	1.48	0.11	2.59	0.06	34.7	9.7	8	1.6	17.8	2.15
BB38360	0.38	0.13	7.57	1.8	670	5.74	1.26	0.69	0.03	123	3.5	28	15	10.2	1.66
BB38361	0.26	0.13	7.26	2.2	550	4.67	1.02	2.03	0.27	79.3	20.3	58	21.9	20	6.5
BB38362	0.26	0.1	7.18	1.5	500	4.57	1.98	1.6	0.16	80.7	19.8	69	24.6	18.4	5.88
BB38363	0.22	0.13	7.18	2.9	540	4.66	2.65	0.91	0.08	97	12.8	45	18.35	14	4.76
BB38364	0.28	0.06	7.05	2.6	590	4.05	1.23	1.04	0.07	90.8	8.5	47	13.1	8	3.44
BB38365	0.20	0.15	6.99	1.1	720	2.5	0.27	1.16	0.06	39.5	5.4	15	10	8.5	5.33
BB38366	0.26	0.03	7.02	4	560	4.68	1.42	0.59	0.04	97.5	3.4	26	12.35	3.3	2.49
BB38367	0.24	0.04	7.56	1.1	650	5.03	0.72	0.72	0.04	96.3	2.1	11	8.85	4	1.16
BB38368	0.30	0.1	7.51	1.6	570	4.31	1.6	1.53	0.12	80.7	14.4	42	15.85	9.4	4.75

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



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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB38329		25.1	0.28	1.5	0.124	2.17	35.2	106	2.28	1025	1.86	1.79	29.4	24.9	1480	11.8
BB38330		26.7	0.27	1.9	0.085	2.28	55.6	105.5	1.28	911	1.92	1.61	26.4	20.7	1460	15.7
BB38331		20.2	0.14	3.7	0.022	2.34	21	33	0.49	363	1.64	2.71	8.5	3.7	390	10.5
BB38332		19.1	0.16	2.5	0.042	1.96	36.9	42.1	0.43	340	1.88	1.21	17	11.8	1800	15.2
BB38333		25.3	0.2	2.1	0.067	2.44	43.5	52.4	0.81	384	1.73	1.42	23.4	10.4	960	17.7
BB38334		25.5	0.32	1.9	0.103	2.14	52.2	94.3	1.66	694	1.8	1.68	28.8	19.8	750	14.7
BB38335		23.7	0.25	1.6	0.093	2.42	39	61.6	1.72	689	1.72	1.31	26.5	20.9	1500	17.8
BB38336		23.8	0.23	1.6	0.102	2.09	31.4	67.6	1.56	676	1.82	1.36	26	17.2	990	12.7
BB38337		24.1	0.25	1.8	0.099	2.46	32.7	78.6	1.57	862	1.96	1.08	24.2	21.8	1050	11.9
BB38338		28.6	0.27	2.1	0.104	2.8	37.3	89.7	1.54	800	2	1.33	28	17	840	17.4
BB38339		22.2	0.3	1.8	0.087	1.93	65.1	87	1.3	724	4.37	1.2	20.9	16	1140	13.4
BB38340		20.6	0.18	3.5	0.034	2.12	22.5	39.2	0.69	420	2.16	2.08	9.3	9	840	11.3
BB38341		27.9	0.22	2	0.071	2.79	48.5	56.4	0.69	377	1.36	1.35	26.2	8.3	320	17.2
BB38342		25.5	0.24	2.1	0.111	2.63	36.6	54.4	1.37	605	2.88	0.71	25.7	17.6	920	16.2
BB38343		26.5	0.24	2.2	0.089	2.81	41.9	49.2	0.99	475	2.49	1.06	26.2	12	500	17.5
BB38344		23.7	0.21	2.2	0.089	2.32	32.4	58.8	0.96	416	2.51	0.91	22.3	16.2	1240	16.7
BB38345		21.8	0.19	2.3	0.066	2.54	39.5	41.6	0.64	443	1.72	1.11	22.8	10.4	1020	18.2
BB38346		19.9	0.2	3.1	0.043	2.41	24	27.5	0.69	467	1.51	2.02	13.3	6.4	830	11.3
BB38347		26.8	0.2	2.1	0.049	2.44	58.6	69.7	0.33	186	1.67	1.2	26.2	7.2	370	18.3
BB38348		27.9	0.23	1.8	0.059	3.05	56.7	71.2	0.51	242	1.43	1.63	24.6	8.4	280	21.1
BB38349		26.4	0.21	2.1	0.061	2.51	51.3	84.1	0.66	305	1.56	1.17	24.4	10.2	680	18.8
BB38350		28.5	0.22	3.2	0.09	3.07	40.6	91.7	1.04	359	1.62	0.98	26.2	12	430	17
BB38351		25.9	0.2	1.4	0.04	3.34	52.3	80.2	0.3	126	0.99	1.6	22.3	4.1	290	23
BB38352		22.4	0.26	2.1	0.081	2.06	30.9	61.3	1.48	648	1.35	2.04	22.1	15.1	1220	10.8
BB38353		24.5	0.33	1.9	0.099	2.2	42.1	84.9	1.97	885	1.63	2.09	27.5	19.2	1730	12
BB38354		25	0.31	1.7	0.106	2.15	31.3	87.2	1.8	806	1.85	1.33	29	24.8	1060	12.5
BB38355		30.8	0.3	2	0.078	2.56	46.5	48	1.18	857	1.88	1.33	28	17.2	810	17.3
BB38356		25.7	0.32	2	0.095	2.12	53.5	93.5	1.49	798	3.32	1.48	24.6	17.4	1120	15.5
BB38357		26.7	0.24	2.5	0.066	2.31	42	39.2	0.64	393	2	1.42	27.7	7.8	1200	19.7
BB38358		24.7	0.3	2.3	0.089	2.82	50.5	108.5	1.44	831	1.8	1.45	24.1	18.8	1690	20.4
BB38359		20.8	0.2	3.6	0.028	1.88	17.4	22.8	1	403	1.36	2.75	5.7	6.8	760	8.3
BB38360		27.3	0.22	1.8	0.043	2.82	58.4	85.9	0.38	200	1.46	2	31.6	8.4	560	15.6
BB38361		27.7	0.31	1.5	0.115	2.36	35.9	77.5	1.78	860	1.9	1.48	34.6	21.1	1200	11.3
BB38362		25	0.28	1.2	0.098	2.04	38.2	107.5	1.64	766	1.84	1.03	28.7	22.6	1120	16.7
BB38363		29.9	0.3	1.4	0.082	2.38	46.9	79.6	1.05	500	1.99	1.18	27.6	14.8	810	17.7
BB38364		28.1	0.27	1.6	0.069	2.42	43.1	73.6	0.83	372	1.5	1.5	24.5	14	290	18.6
BB38365		32	0.24	3.5	0.072	1.63	20.1	25.8	0.82	420	2.65	2.05	36	4.4	520	10.7
BB38366		26.5	0.22	1.6	0.044	2.74	47.9	82.9	0.43	206	1.6	1.53	22.8	6.8	370	22.9
BB38367		28.1	0.18	1	0.04	3.56	45.8	65.4	0.26	140	0.98	2.04	18.2	3.6	280	24.7
BB38368		33.6	0.26	1.4	0.096	2.93	38.7	68.5	1.47	641	1.78	1.54	29.4	15.2	740	20.5

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



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Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
Sample Description															
BB38329	114	<0.002	0.04	0.83	2	9.9	131	2.42	<0.05	12.3	1.055	0.55	2.8	198	6.8
BB38330	149.5	<0.002	0.04	0.87	2	10.9	214	2.16	<0.05	20.4	0.681	0.72	5	130	36.8
BB38331	64	<0.002	0.02	0.95	<1	3.6	550	0.77	<0.05	7.6	0.22	0.3	2.3	35	2
BB38332	108.5	<0.002	0.1	0.97	1	6.7	186.5	1.55	<0.05	13.9	0.371	0.54	3.6	87	15.7
BB38333	117.5	<0.002	0.04	0.61	1	9.3	99.5	1.98	<0.05	21.8	0.531	0.56	3.4	102	6.4
BB38334	113	0.002	0.02	0.43	2	9.4	108.5	2.28	<0.05	23.5	0.813	0.65	3.6	148	82.1
BB38335	112	<0.002	0.04	0.39	1	7.8	120	2.04	<0.05	16	0.786	0.64	3.4	142	5.1
BB38336	99.7	<0.002	0.05	0.29	2	9.3	96.4	1.97	<0.05	12.5	0.743	0.57	3.4	136	4.1
BB38337	137.5	<0.002	0.06	0.41	1	10.5	85.5	1.88	<0.05	15.2	0.772	0.67	2.9	158	6.6
BB38338	159.5	<0.002	0.03	0.44	1	12.4	96.3	2.51	0.05	16.1	0.797	0.75	3.3	150	4.2
BB38339	109	<0.002	0.08	0.66	3	7.4	127	1.71	<0.05	19.9	0.589	0.54	10.8	114	4.7
BB38340	69.7	<0.002	0.05	0.57	1	2.8	420	0.8	<0.05	9.8	0.282	0.4	5.7	63	1.9
BB38341	175.5	<0.002	0.02	0.5	2	10.9	98.2	2.31	<0.05	25.6	0.523	0.7	3.8	81	4.4
BB38342	116.5	<0.002	0.04	0.41	1	7.5	74.9	1.96	<0.05	16.6	0.699	0.53	3	132	4.2
BB38343	121.5	<0.002	0.02	0.39	1	9.4	82.6	2.06	<0.05	18.8	0.627	0.58	3.5	123	4.7
BB38344	120.5	<0.002	0.06	0.53	2	8.5	88.7	1.96	<0.05	16	0.485	0.57	4.7	97	3.7
BB38345	122.5	<0.002	0.06	0.64	2	8.2	98.9	1.96	<0.05	16.6	0.565	0.55	3.6	97	3.8
BB38346	71.6	<0.002	0.02	0.44	1	4.1	378	1.08	<0.05	8.5	0.403	0.33	2.5	69	1.9
BB38347	127	<0.002	0.02	0.54	1	11	101.5	2.42	<0.05	22.8	0.472	0.72	3.6	82	12.1
BB38348	172	<0.002	0.01	0.43	1	12.5	103.5	2.25	<0.05	27.1	0.421	0.84	4.3	82	6.5
BB38349	156.5	<0.002	0.02	0.6	1	10.7	90.9	2.28	0.05	23.2	0.444	0.82	4.2	85	5
BB38350	203	<0.002	0.02	0.43	1	11	78.7	2.28	<0.05	21.8	0.393	0.91	5.3	76	3.4
BB38351	196.5	<0.002	0.01	0.27	1	12.3	94.8	2.11	<0.05	25.6	0.282	0.86	3.9	42	3.6
BB38352	91.5	<0.002	0.03	0.31	1	6.9	253	1.73	<0.05	10.6	0.68	0.42	2.7	118	4.9
BB38353	97.7	<0.002	0.02	0.38	2	8.5	213	2.1	<0.05	11.5	0.937	0.51	2.9	160	3.6
BB38354	117	<0.002	0.03	0.48	2	8.4	99.6	3.03	<0.05	11.6	0.892	0.56	2.2	176	55.3
BB38355	176.5	<0.002	0.03	0.43	1	10.2	90.1	2.37	<0.05	20.2	0.856	0.6	3.1	164	4.9
BB38356	124.5	<0.002	0.05	0.31	2	9.5	177.5	2	<0.05	14.6	0.768	0.58	17.1	140	4.8
BB38357	103.5	<0.002	0.02	0.44	2	11.2	111	2.38	<0.05	16.7	0.848	0.6	2.9	111	4.6
BB38358	159	<0.002	0.02	0.4	2	8.9	164	2.06	<0.05	18	0.729	0.79	9.9	120	5.1
BB38359	39.7	<0.002	0.01	0.47	1	1.1	711	0.47	<0.05	4.9	0.266	0.23	1.9	61	0.7
BB38360	153.5	<0.002	0.02	0.47	2	17.6	113	3.15	<0.05	28.5	0.404	0.68	3.9	59	20.2
BB38361	144.5	<0.002	0.03	0.53	3	12	110.5	2.63	<0.05	11.8	1.13	0.67	2.6	185	6.7
BB38362	131	<0.002	0.04	0.3	2	12.3	87.4	2.31	<0.05	13.8	0.961	0.8	3	163	10.9
BB38363	144.5	<0.002	0.03	0.43	2	11.8	83.9	2.34	<0.05	19.2	0.729	0.74	3.5	134	7.4
BB38364	149.5	<0.002	0.01	0.4	2	11.2	106.5	2.31	<0.05	18.2	0.58	0.67	3.1	116	5.1
BB38365	116.5	<0.002	0.03	0.32	2	5.5	96	2.71	<0.05	14	0.661	0.35	2.8	85	1.1
BB38366	179	<0.002	0.01	0.4	2	10.5	103	2.21	0.05	23.1	0.293	0.86	3.4	54	4.8
BB38367	195	<0.002	0.01	0.22	2	11.8	100.5	1.8	<0.05	23.4	0.25	0.89	3.3	30	3.6
BB38368	162.5	<0.002	0.02	0.24	2	11	102.5	2.28	<0.05	15	0.824	0.75	3.4	140	24.9

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



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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
BB38329		47.1	120	44.5
BB38330		29.9	85	60.3
BB38331		7.9	45	131
BB38332		12.2	47	84.8
BB38333		19.7	43	65.2
BB38334		36.6	77	56.3
BB38335		34.4	89	50.3
BB38336		30.3	76	48.7
BB38337		28.7	94	55.9
BB38338		27.2	93	63.6
BB38339		40.7	132	55.6
BB38340		9.7	58	124.5
BB38341		19.4	53	59.5
BB38342		25.4	100	63
BB38343		22.1	68	70
BB38344		15.6	69	69
BB38345		19.4	56	72
BB38346		15.2	55	106
BB38347		13.8	31	67.5
BB38348		17.8	39	53
BB38349		15.8	56	61.6
BB38350		13.5	57	103.5
BB38351		10.8	25	41.5
BB38352		29.9	71	68.4
BB38353		45.1	91	58.2
BB38354		35.4	96	52.3
BB38355		28.9	72	59.2
BB38356		45.5	101	63.4
BB38357		27.2	38	75.7
BB38358		37.7	105	68.5
BB38359		9.9	48	121
BB38360		14.3	35	54.6
BB38361		47.5	101	45.7
BB38362		36.9	81	33.8
BB38363		27	68	43.5
BB38364		19.7	45	45
BB38365		20.3	43	140
BB38366		13.8	33	46.6
BB38367		13.6	23	28.3
BB38368		36	81	42.6

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



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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB38369		0.28	0.18	6.92	1.9	780	3.32	0.83	0.92	0.09	80.4	8.1	31	9.36	11	3.22
BB38370		0.20	0.07	6.74	1.5	600	3.2	0.86	1.3	0.11	89.1	10.8	36	12.15	9	4.01
BB38371		0.28	0.05	8	3.1	610	4.51	1.07	1.62	0.31	73.9	20.7	60	17.9	16.6	6
BB38372		0.28	0.09	7.42	2.9	570	3.69	1.24	1.3	0.09	89.6	12.6	46	15.65	10.2	4.95
BB38373		0.32	0.08	7.75	3.9	660	4.1	0.92	1.62	0.27	79.3	25.5	75	19.9	29.1	6.57
BB38374		0.30	0.2	7.84	4.5	550	4.12	1.04	1.45	0.2	79.1	17.3	58	16.85	15.2	6.5
BB38375		0.34	0.12	7.42	2.7	570	5.33	1.45	1.15	0.09	94.4	11.4	36	17.05	9.3	4.06
BB38376		0.32	0.09	7.71	2.6	710	3.98	0.95	1.73	0.17	78.6	13.3	42	14.25	12.8	4.28
BB38377		0.18	0.14	6.53	2.3	640	3.23	1.38	1.04	0.09	58.6	9.1	32	14.7	10.1	3.47
BB38378		0.24	0.1	6.64	2.6	630	3.66	1.18	0.7	0.1	83.5	5.4	34	11.2	10.2	2.78
BB38379		0.26	0.12	6.73	1.7	490	4.16	1.09	1.44	0.13	57.8	14.4	43	14.75	12.8	4.71
BB38380		0.24	0.13	7.57	2.1	420	3.76	1.57	1	0.16	64.8	14	57	31.1	10.6	6.77
BB38381		0.28	0.12	7.27	2.9	590	4.68	1.41	0.58	0.05	131	3	26	11.25	6.2	1.81
BB38382		0.24	0.18	7.44	2	550	4.21	0.99	1.52	0.11	72.5	18.4	53	19.7	15	5.45
BB38383		0.26	0.13	6.72	2.2	570	3.17	0.66	1.2	0.08	71.2	8.8	35	10.1	11.1	3.72
BB38384		0.22	0.19	7.06	2	640	3.47	0.67	1.58	0.08	68.1	14.4	35	12.9	13.9	4.79
BB38385		0.24	0.13	7.63	2.3	570	4.55	2.03	1.87	0.21	72.9	25.1	66	26	17.7	7.66
BB38386		0.26	0.14	7.33	2.3	560	4.86	1.12	1.74	0.21	89.7	20.1	55	16.65	15.2	5.73
BB38387		0.30	0.14	7.58	2	550	5.63	0.98	1.76	0.17	90.5	20.2	50	16.5	18.4	5.56
BB38388		0.26	0.19	7.75	3.1	580	5.16	1.08	2.04	0.23	81	23	64	19.45	17.4	7.2
BB38389		0.22	0.09	6.93	5.7	670	3.54	0.92	1.04	0.18	90.8	9.5	52	11.25	8	3.99
BB38390		0.32	0.11	7.26	2.8	580	4.74	0.93	1.9	0.22	86.1	18.9	57	15.2	14.4	5.41
BB38391		0.22	0.14	6.86	1.7	690	2.65	0.4	2.01	0.27	53.5	9.6	20	5.73	15.2	2.67
BB38392		0.14	0.11	7.02	2.2	670	3.83	0.84	1.26	1.06	61.7	15.8	37	13.75	18.2	4.02
BB38393		0.18	0.11	7.88	3.3	770	4.1	0.62	1.64	0.27	71.6	13.4	33	11.85	20.5	3.93
BB38394		0.20	0.07	6.78	2.7	590	4.23	0.89	1.5	0.17	94.5	12.4	38	12.65	11	3.91
BB38395		0.22	0.17	6.78	3	650	2.66	0.6	1.36	0.09	64.9	7.1	32	9.89	9.7	2.63
BB38396		0.32	0.21	7.19	3.6	640	3.85	0.68	1.92	0.23	76.7	21.2	58	17.75	23.5	5.93
BB38397		0.28	0.04	6.9	1.9	560	3.66	1.1	1.66	0.14	72.2	16.4	45	21.2	10.2	5.71
BB38398		0.30	0.11	7.14	3.4	630	4.05	0.96	1.68	0.26	67.9	18.8	55	17.65	16.7	6.38
BB38399		0.24	<0.01	7.41	1.7	640	4.36	0.71	2.11	0.16	60.2	17.8	56	16	17.1	6.77
BB38400		0.28	0.02	7.4	2.8	680	4.08	0.89	1.49	0.1	71.5	14.6	51	17.55	16.8	6.29
BB38401		0.24	<0.01	7.84	1.9	610	3.8	0.78	2.47	0.14	64	24.3	72	21.8	28.4	7.72
BB38402		0.28	0.07	7.85	1.7	650	3.55	0.94	2.17	0.11	58.2	19.2	73	20.8	20.3	6.66
BB38403		0.08	1.31	5.93	0.9	530	4.52	0.96	1.13	0.32	98.4	13.4	37	13.5	28.8	3.43
BB38404		0.20	0.05	8.57	1.7	760	4.34	1.2	1.29	0.11	92.7	22.7	61	19.1	35.7	6.61
BB38405		0.18	<0.01	8.77	1.5	700	3.46	0.96	1.98	0.12	76.7	20.7	53	14.95	30.9	5.88
BB38406		0.20	0.05	7.69	2	710	1.91	0.78	1.81	0.17	59.7	12	23	6.06	22.4	3.27
BB38407		0.24	0.04	7.87	1	670	4.67	2.84	2	0.14	61	18	61	28.8	31.1	6.24
BB38408		0.18	0.03	8.21	1.4	670	3.64	1.21	1.61	0.14	96.9	21.6	62	19.75	36.4	6.38

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



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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
BB38369		25	0.25	2.7	0.077	2.69	39	51.7	0.87	398	2.69	1.25	22.5	9.9	1420	15.1
BB38370		29.1	0.28	1.6	0.081	2.57	41.7	38.1	1.12	544	2.54	1.65	28.3	11.2	360	15.1
BB38371		25.6	0.28	1.5	0.103	2.61	35.4	88	1.72	828	1.68	1.24	26.7	23.1	900	16.4
BB38372		29.8	0.32	1.9	0.101	2.73	42.6	62.6	1.34	615	2.38	1.36	30	14.4	540	17
BB38373		24.5	0.29	1.5	0.113	2.48	40.1	102	2.13	878	2	1.1	26.1	31.2	1410	11.5
BB38374		27.8	0.3	1.8	0.107	2.3	38	80.7	1.63	731	1.93	1.27	27.9	19.8	1030	19.8
BB38375		28	0.3	2.4	0.089	2.99	46.6	123.5	1.05	534	1.6	1.41	25.9	13.4	810	25.6
BB38376		27.4	0.28	2.6	0.084	2.68	38.8	80.5	1.3	745	2.02	1.66	24.5	15	880	19
BB38377		27.6	0.26	1.7	0.087	2.47	29.7	43.9	0.96	488	2.08	1.19	29.2	10.7	650	14.4
BB38378		26.8	0.23	2	0.062	2.21	41	59.1	0.57	292	1.56	1.34	24	11.6	470	17.3
BB38379		23.7	0.28	1.5	0.088	2.02	28	57.3	1.2	647	1.8	1.25	25	14.6	1580	17.1
BB38380		30.5	0.27	1.3	0.108	2.13	24	102.5	1.42	894	1.49	0.72	24.6	16.3	1320	14.4
BB38381		28.4	0.24	1.9	0.043	2.91	63.5	79.1	0.33	188	1.2	1.64	23.3	7.4	850	24.3
BB38382		29.7	0.31	1.4	0.11	2.61	34.9	86.1	1.61	701	1.52	1.34	30.2	19.8	960	15.8
BB38383		25.6	0.27	1.8	0.072	2.04	34.4	53.1	0.94	438	1.48	1.47	24.5	9.7	1300	15.3
BB38384		24.2	0.31	1.9	0.084	2.13	33.1	71.5	1.38	656	1.66	1.66	26.5	12.6	960	12.3
BB38385		28	0.37	1.2	0.126	2.64	37.3	136	2.31	913	1.8	1.36	34.5	24.1	1260	16.8
BB38386		25.4	0.35	1.7	0.113	2.47	43.4	89.4	1.74	819	1.85	1.29	28.3	21.4	1230	15.9
BB38387		25.8	0.35	1.9	0.112	2.55	44.1	90.8	1.77	846	1.74	1.34	27.7	19.2	1450	16.3
BB38388		27.1	0.39	1.6	0.125	2.52	38.2	85.5	2.04	927	2.2	1.36	30.2	23.7	1380	14.6
BB38389		24.8	0.28	2.2	0.074	2.29	46	68.5	0.88	463	1.7	1.38	23	16	630	22.1
BB38390		24.8	0.37	1.8	0.101	2.32	41.5	75	1.7	991	1.68	1.48	28	21	1820	17.9
BB38391		19.4	0.27	2.9	0.045	2.06	27.6	44.9	0.88	533	1.38	2.1	12	9.1	900	12.8
BB38392		23.6	0.26	2.4	0.071	2	30	68.2	1.08	1845	1.84	1.45	18.2	15.3	1560	17
BB38393		24.6	0.28	3.1	0.064	2.34	35.9	72.7	1.18	663	1.81	2.02	17.1	15	960	13.8
BB38394		23.8	0.3	2.3	0.075	2.38	45.6	64.2	1.08	918	1.44	1.52	24.6	13.6	1320	19.6
BB38395		22.3	0.26	2.3	0.052	2.16	32	39.1	0.78	368	1.73	1.64	18.4	9.4	1260	15.5
BB38396		25	0.33	1.6	0.103	2.41	37.4	70.4	1.89	956	1.62	1.46	28.2	23.7	1460	12.5
BB38397		30.3	0.31	1.5	0.103	2.49	40.9	55	1.66	829	2.05	1.41	33.8	15.4	1300	15.9
BB38398		27.6	0.32	1.6	0.113	2.3	32.8	71.8	1.66	848	2.29	1.44	32.5	20	760	14
BB38399		25.6	0.26	1.7	0.107	2.18	30.3	82.5	1.84	896	1.76	1.63	36.3	17.5	870	11.2
BB38400		27	0.28	1.8	0.104	2.26	39.1	56.3	1.46	731	1.92	1.29	34.1	14.8	790	13.4
BB38401		25.5	0.34	1.4	0.112	2.53	34.7	80.8	2.45	1225	2.75	1.51	35.4	22.8	1540	8.5
BB38402		25.5	0.3	1.6	0.104	2.41	29.4	73.9	2.13	1015	2.82	1.41	33.2	20.1	1090	9.3
BB38403		17.15	0.49	1.8	0.066	1.17	74.1	87.2	0.92	859	6.33	1	13.8	14.4	2370	10.2
BB38404		26.7	0.38	2.1	0.11	2.7	61.8	88.6	2.2	1250	3.08	1.16	26.8	21.5	1340	9.7
BB38405		24.7	0.35	2.4	0.092	2.82	44.8	66.1	2	998	1.74	1.78	23.3	20.6	1710	8.7
BB38406		19.65	0.2	3.2	0.047	2.14	29.7	31	1.05	1270	1.79	2.36	13.8	9.1	1260	9.2
BB38407		23.3	0.3	1.4	0.102	2.19	31.8	103.5	2.02	891	1.56	1.47	27.6	24.1	2340	9.2
BB38408		25.1	0.44	2.1	0.1	2.64	57.4	90.8	2.06	1020	1.92	1.31	27.3	23.2	1660	12

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



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V
		ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.2	% 0.005	ppm 0.02	ppm 0.1	ppm 1
BB38369		126.5	<0.002	0.06	0.35	3	8.8	143	1.87	<0.05	17.8	0.481	0.66	4.9	88
BB38370		123.5	<0.002	0.02	0.38	2	11.6	94.8	2.2	<0.05	19.2	0.828	0.54	3	144
BB38371		163	<0.002	0.02	0.36	2	9.3	103.5	2.14	<0.05	15	0.821	0.75	2.7	160
BB38372		151.5	<0.002	0.01	0.42	2	10.3	93.3	2.43	<0.05	19.8	0.795	0.67	3.3	146
BB38373		142.5	<0.002	0.03	0.59	2	6.7	106	1.9	<0.05	14	0.877	0.71	2.6	184
BB38374		141.5	<0.002	0.03	0.45	2	9.1	100	2.2	<0.05	15.4	0.804	0.71	3	162
BB38375		190	<0.002	0.02	0.34	2	12.4	132	2.39	<0.05	19.4	0.612	0.9	4.5	106
BB38376		163	<0.002	0.02	0.51	2	9.7	215	2.17	<0.05	15.6	0.696	0.69	3.6	129
BB38377		131	<0.002	0.03	0.77	2	13.2	88.3	2.5	<0.05	12.7	0.682	0.55	2.9	108
BB38378		135.5	<0.002	0.03	0.6	1	10.8	113.5	2.1	<0.05	16.6	0.457	0.62	3.2	86
BB38379		123	<0.002	0.05	0.46	2	11	127.5	2.35	<0.05	10.5	0.75	0.66	3.6	126
BB38380		138	<0.002	0.05	0.44	2	10.8	54.6	1.97	<0.05	14.2	0.703	0.72	2.9	153
BB38381		181.5	<0.002	0.02	0.73	2	11.2	101.5	2.17	<0.05	30.2	0.295	0.95	5.5	49
BB38382		165.5	<0.002	0.03	0.33	3	10.3	93.3	2.25	<0.05	14.4	0.889	0.77	2.9	146
BB38383		108.5	<0.002	0.05	0.38	2	8.2	142	2.04	<0.05	13.3	0.62	0.54	3	106
BB38384		105.5	<0.002	0.03	0.45	3	7.3	234	1.94	<0.05	9.4	0.737	0.58	3.2	114
BB38385		173.5	<0.002	0.03	0.28	2	12.3	91.9	2.58	<0.05	11.2	1.12	0.91	2.9	193
BB38386		143.5	<0.002	0.02	0.42	2	10.3	99.8	2.31	<0.05	15.1	0.902	0.71	3.2	162
BB38387		140	<0.002	0.02	0.48	2	10.6	124.5	2.23	<0.05	16.8	0.899	0.79	4.1	156
BB38388		145.5	<0.002	0.02	0.49	3	9.6	106.5	2.33	<0.05	12.8	1.015	0.69	2.7	198
BB38389		148.5	<0.002	0.02	0.77	2	8.6	137	1.87	<0.05	18.3	0.567	0.73	3.6	118
BB38390		140.5	<0.002	0.02	0.57	2	9.6	117.5	2.28	<0.05	14.9	0.871	0.65	4.3	156
BB38391		80	<0.002	0.04	0.44	1	4.4	389	1.04	<0.05	8.3	0.396	0.4	3.9	71
BB38392		133	<0.002	0.08	0.54	2	7.1	225	1.58	<0.05	11	0.528	0.66	5	103
BB38393		111.5	<0.002	0.03	0.56	2	5.9	361	1.42	<0.05	10.6	0.513	0.54	4.1	100
BB38394		148	<0.002	0.05	0.48	2	8.9	175	2.16	<0.05	19.3	0.729	0.72	4.1	114
BB38395		119	<0.002	0.04	0.59	2	6.4	258	1.6	<0.05	11.8	0.465	0.51	3	91
BB38396		141.5	<0.002	0.04	0.47	3	8.6	133.5	2.11	<0.05	11.2	0.943	0.65	2.8	164
BB38397		163	<0.002	0.02	0.29	2	11.3	97.1	2.55	<0.05	11	0.959	0.73	2.5	166
BB38398		146	<0.002	0.03	0.49	3	10.8	111.5	2.58	<0.05	11	1.005	0.61	2.4	176
BB38399		143	<0.002	0.02	0.25	3	9.5	96.3	2.46	<0.05	10.7	1.095	0.56	2.5	180
BB38400		160	<0.002	0.04	0.26	3	9.9	89.4	2.35	<0.05	17.8	0.96	0.64	3.2	171
BB38401		145	<0.002	0.04	0.48	3	10.3	100	2.23	<0.05	9.7	1.245	0.68	2.6	212
BB38402		127	<0.002	0.04	0.29	3	10.1	100.5	2.21	<0.05	9.1	1.195	0.59	2.5	206
BB38403		73.1	<0.002	0.23	0.77	5	5.4	150	1.05	<0.05	21.5	0.407	0.4	19.7	101
BB38404		152	0.002	0.05	0.23	3	7.1	127	1.68	<0.05	17	0.794	0.72	5	163
BB38405		131	<0.002	0.04	0.31	2	5.6	295	1.49	<0.05	11.3	0.785	0.57	2.9	159
BB38406		80.6	0.002	0.05	0.42	2	3.6	466	1.01	<0.05	8.4	0.469	0.36	3	92
BB38407		162.5	<0.002	0.06	0.71	3	18.6	125.5	2.07	<0.05	9.7	0.912	0.72	2.9	181
BB38408		167.5	<0.002	0.04	0.28	3	6.4	158	1.71	<0.05	14.3	0.824	0.65	3.5	168

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

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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
BB38369		23.2	47	89.8
BB38370		29.6	54	50.8
BB38371		36.5	100	44.8
BB38372		32.8	78	55.2
BB38373		40.2	112	46
BB38374		32.9	94	55.3
BB38375		24.1	86	70.3
BB38376		27.5	95	84
BB38377		27.4	67	54
BB38378		16.8	48	67.6
BB38379		32	78	46.9
BB38380		30.1	61	39
BB38381		16	33	59.2
BB38382		37.2	79	41.2
BB38383		24.3	54	61.8
BB38384		37.4	84	68.1
BB38385		45.7	127	35
BB38386		41.5	99	48.5
BB38387		42.3	100	57.3
BB38388		45.4	102	49.9
BB38389		21.6	72	71.3
BB38390		41.2	112	56.2
BB38391		19.2	67	100.5
BB38392		19.6	132	83.3
BB38393		22.4	90	109
BB38394		29.9	83	71.3
BB38395		16.8	50	78.5
BB38396		41.6	112	50.6
BB38397		42.2	97	44.1
BB38398		39.4	92	49.8
BB38399		43.4	102	34.9
BB38400		34	91	38
BB38401		51.1	130	29.2
BB38402		42.7	114	33.9
BB38403		55.6	89	41.1
BB38404		39.4	146	46.6
BB38405		37.8	112	54
BB38406		20.2	74	78.4
BB38407		41	118	31
BB38408		46.2	114	46.7

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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
BB38409		0.18	0.03	8.62	1.3	750	4.52	1.36	2	0.36	99.3	22.7	68	18.2	38.2	6.65
BB38410		0.24	0.02	8.71	1.1	770	4.16	2.15	1.81	0.27	132.5	22.3	62	21	45.4	6.87
BB38411		0.14	<0.01	9.18	1	760	5.2	3.78	1.7	0.3	150.5	25.9	64	23.4	56.8	6.88
BB38412		0.20	<0.01	8.87	2.3	770	2.41	0.82	2.03	0.16	72	14.6	36	10.8	32.2	4.29
BB38413		0.18	0.06	8.67	0.8	720	4.6	2.02	1.34	0.28	105	26.4	69	23.3	69.4	7.48
BB38414		0.18	0.08	8.67	1.1	680	4.67	1.32	1.13	0.48	132.5	19.2	46	16.7	84.2	5.7
BB38415		0.16	0.02	8.9	1.8	810	4.93	1.42	1.42	0.28	153.5	25.5	61	21.6	97.4	7.06
BB38416		0.18	0.05	8.35	1.9	740	3.64	1.96	1.88	0.15	94.1	21.6	66	25.5	45.1	6.91
BB38417		0.28	0.03	9.12	1.6	740	4.13	1.78	2.25	0.16	91.7	29	70	26.6	48.8	7.71
BB38418		0.14	0.08	8.14	1.1	840	1.82	0.34	1.86	0.1	51.5	9.4	18	4.8	22.4	2.92
BB38419		0.16	0.04	7.89	0.5	790	2.16	0.52	1.82	0.15	63.6	13.8	31	10.05	31.4	3.79
BB38420		0.14	<0.01	8.09	1.2	780	1.98	0.4	1.78	0.11	59	11.6	28	6.91	22.7	3.62
BB38421		0.14	0.15	6.12	1	550	2.64	0.5	1.73	0.36	80.5	26.5	70	16.2	28	5.88
BB38422		0.32	<0.01	8.41	1.8	660	4.07	0.55	2.6	0.21	79.4	24	58	16.4	27.6	7.36
BB38423		0.14	0.29	5.8	1.3	680	3.38	0.87	1.22	0.37	103	31.6	53	19.1	27.1	4.66
BB38424		0.20	<0.01	7.15	1.8	570	3.96	1.47	1.46	0.2	75.4	9.9	40	15	18	4.12
BB38425		0.28	<0.01	7.23	1.8	570	4.83	1.46	1.42	0.21	77.6	10.2	40	16.05	19.2	4.12
BB38426		0.26	<0.01	7.75	2	650	4.22	0.91	2.02	0.16	70	18.8	71	17.2	25.5	5.73
BB38427		0.24	<0.01	8	1.3	590	4.74	0.72	1.11	0.09	92	5.6	28	11.25	12.4	2.52
BB38428		0.26	<0.01	8.2	0.8	600	5.33	0.56	0.59	0.05	125	1.8	14	8.32	8.4	1.02
BB38429		0.26	<0.01	8.77	2.6	430	5.52	1.14	0.23	<0.02	145.5	2.1	12	14.25	12.3	2.97
BB38430		0.18	0.06	7.24	0.8	470	5.05	1.17	0.61	0.06	119.5	3.7	19	12.95	12.1	1.6
BB38431		0.20	0.12	8.27	1.9	760	3.62	1.15	1.22	0.05	86.9	16.8	40	16.5	28.5	4.83
BB38442		0.16	0.09	7.1	0.9	750	1.57	0.4	1.14	0.05	47.4	3.4	11	3.07	19.4	1.46
BB38443		0.28	<0.01	7.64	0.9	660	4.88	1.47	0.75	0.04	146	2.9	12	8.83	10.1	1.38
BB38444		0.20	0.3	5.51	2.5	420	3.07	2.68	0.32	0.17	48	4.2	39	13	19	2.38
BB38445		0.26	<0.01	7.67	2	620	5.66	1.98	1.6	0.2	99.4	14.7	37	16.95	23.6	4.35
BB38446		0.18	0.34	7.11	1.6	580	5.52	1.77	1.29	0.13	81	16.4	35	16.35	23.1	3.98
BB38447		0.30	<0.01	8.57	1.5	610	5.14	1.35	1.26	0.18	80	16	45	17.75	24.4	5.41
BB38448		0.26	0.09	7.94	1.1	770	1.77	0.23	1.6	0.07	44.5	5.7	8	3.12	19.6	1.82
BB38449		0.22	<0.01	8.14	0.6	630	3.22	0.59	2.05	0.14	55.2	16	33	12.55	25.6	4.34
BB38450		0.32	<0.01	8.19	2.2	580	3.78	0.9	1.46	0.13	67.5	15.9	52	17.6	16.3	5.53
BB38451		0.30	<0.01	8.43	1.1	600	4.88	1.3	1.04	0.05	113.5	7.6	33	18.2	13.8	3.34
BB38452		0.26	<0.01	8.26	0.3	650	4.31	0.5	0.79	0.02	125.5	3.2	15	10.9	7.2	1.54
BB38453		0.24	<0.01	7.62	0.6	650	3.26	0.92	0.68	0.04	82.3	2.6	18	9.82	10.8	1.29
BB38454		0.26	<0.01	7.39	<0.2	620	4.57	0.92	0.95	0.11	102	4.5	22	9.19	10.2	2.02
BB38455		0.28	<0.01	8.02	3	630	3.21	1.52	0.91	0.08	93	8.3	38	14.45	18.8	3.68
BB38456		0.22	<0.01	8.03	1.5	810	2.47	1.38	1.59	0.08	60.5	6.2	20	6.09	17.9	2.77
BB38457		0.30	<0.01	8.08	<0.2	650	4.95	0.93	0.94	0.07	77.8	4.4	17	9.17	12.8	1.86
BB38458		0.28	<0.01	8.44	1.3	520	5.41	1.69	1.3	0.14	121	12.5	46	16.75	19.6	5.04

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



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CERTIFICATE OF ANALYSIS VA04041704

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
BB38409	25	0.43	1.8	0.115	3.05	56.7	77.5	2.09	1365	1.8	1.32	29.2	23.1	2100	8.5
BB38410	26.4	0.53	2.3	0.116	3.18	77	82.7	2.39	1310	2.75	1.14	29.2	23.8	2130	10.6
BB38411	27.7	0.56	2.1	0.136	3.43	80	84.3	2.41	1420	2.88	1.11	30.8	26.6	2200	11.4
BB38412	21.1	0.28	3.4	0.061	2.53	42.7	44.8	1.52	861	2.06	2.28	15.9	14.4	1240	9.2
BB38413	28.6	0.44	2	0.136	3.46	66.4	98.9	2.52	1420	3.35	0.76	25.8	27.8	1280	11.3
BB38414	26.5	0.45	2.4	0.119	3.44	71.8	80.4	1.99	1105	3.04	0.81	24.5	18.8	1400	19
BB38415	30	0.57	2.2	0.143	3.23	88	78.4	2.24	1345	3.55	0.84	28	23.1	1520	15.5
BB38416	24.7	0.43	2	0.11	2.72	53.7	89.6	1.92	1310	1.85	1.34	27.5	25.2	2040	7.7
BB38417	26.2	0.4	2.1	0.114	2.9	48.3	85.4	2.35	1540	1.6	1.58	29.9	24	2240	7.4
BB38418	19.35	0.16	3.6	0.035	2.26	26.9	37.4	0.93	592	1.68	2.53	11.9	7.6	960	8.9
BB38419	21.2	0.24	3.3	0.049	2.49	34.1	44	1.24	772	1.58	2.12	14.4	13.1	1020	8.5
BB38420	19.45	0.19	3.2	0.053	2.36	29.7	46.5	1.21	669	1.46	2.36	15	11.2	1000	8.2
BB38421	20.8	0.35	1.2	0.078	2.21	48.6	61.8	1.84	1435	2.01	1.06	23.4	24.3	1990	8.6
BB38422	24.7	0.43	1.5	0.122	2.91	39.6	89	2.36	1150	1.48	1.95	46.5	21	2520	10.2
BB38423	19.65	0.37	1.2	0.076	1.7	53.3	54.5	1.24	3740	2.87	0.95	22.7	17.8	3120	9.8
BB38424	22.8	0.25	1.4	0.075	2.11	37.5	53.2	1.09	601	1.71	1.72	31	13.5	1420	11.6
BB38425	24.8	0.32	1.7	0.087	2.31	42.2	54.8	1.1	587	2.14	1.72	33.3	13.6	1500	12.3
BB38426	25.2	0.34	1.9	0.107	2.71	36.1	61.5	1.72	1145	1.76	1.77	33.2	20.1	1340	10.3
BB38427	25.6	0.23	2	0.056	2.52	50.5	45.8	0.66	350	1.52	2.52	28.8	8.5	590	13
BB38428	27.9	0.24	1.9	0.034	2.99	69.5	56.6	0.25	116	1.28	2.84	26.7	3.5	670	13.2
BB38429	32.9	0.33	1.2	0.057	3.49	69.5	224	0.32	116	3.71	1.56	36.5	3.9	590	17
BB38430	27.5	0.26	1.6	0.051	2.61	67.4	68	0.37	166	1.4	2.29	29.1	6.5	690	14.8
BB38431	23.8	0.33	2.7	0.081	2.12	55.6	63	1.52	1360	5.03	1.56	19.4	15.2	1400	10.2
BB38442	15.3	0.11	3.7	0.02	1.98	25.4	21.2	0.36	285	2.11	2.25	8.1	3.5	1320	10.4
BB38443	24.6	0.29	1.7	0.032	3.19	73.3	52.3	0.33	198	1.08	2.33	20	5.5	540	19.8
BB38444	15.7	<0.05	1.7	0.052	1.13	25.1	43.6	0.35	369	8.15	0.57	12.4	10.6	4950	17.4
BB38445	22	0.43	1.7	0.082	2.21	53.6	91.6	1.26	998	2.51	1.72	27	15.4	1760	12.6
BB38446	21.7	0.35	1.6	0.076	1.9	42.5	91.2	1.14	1250	7.67	1.51	24.2	16	2070	12.2
BB38447	27.9	0.35	1.7	0.106	2.99	42.6	89.3	1.53	840	2.62	1.5	35.4	20	1420	11.2
BB38448	19	0.21	4.1	0.026	2.25	23.4	26	0.62	351	1.67	2.75	8.3	5	1020	9.8
BB38449	22.6	0.36	2.9	0.073	2.3	28.9	59.9	1.42	718	1.65	2.17	20.4	15.4	1200	11.4
BB38450	27.2	0.36	2.4	0.1	2.49	34.3	72.4	1.5	1010	1.92	1.59	32.7	17.4	1500	14.5
BB38451	31.6	0.41	2.4	0.088	3.81	60.8	79.7	0.76	539	1.68	1.95	36.3	8.5	460	20.8
BB38452	28.3	0.33	1.6	0.065	3.58	61	76.2	0.55	322	0.99	2.25	25.1	4.8	440	17.2
BB38453	25.2	0.23	3.3	0.04	2.56	43.8	63.9	0.34	183	1.38	1.85	21.1	4.4	710	15.8
BB38454	24.8	0.32	1.7	0.057	3.04	56.9	56.2	0.5	298	1.34	2.08	26.5	7	990	16.5
BB38455	27.7	0.35	2.6	0.072	2.93	51	134.5	0.87	437	3.4	1.48	29.2	11.9	890	15
BB38456	22	0.27	3.5	0.051	2.39	30.1	33.1	0.7	498	1.9	2.57	20.8	7.5	1440	12.4
BB38457	23.6	0.28	1.9	0.039	3.03	39.3	56.6	0.41	680	1.2	2.23	21.4	6.9	880	20
BB38458	26.5	0.44	1.2	0.103	2.54	69.3	94.7	1.27	586	1.6	1.59	29.7	18.4	1520	25.6

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



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CERTIFICATE OF ANALYSIS VA04041704

Method Analyte Units LOR	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
Sample Description															
BB38409	160.5	<0.002	0.03	0.32	3	7.1	120.5	1.77	0.06	15.3	0.936	0.67	3.3	176	4.2
BB38410	177	<0.002	0.05	0.22	3	7.6	106	1.95	0.08	20.6	0.867	0.72	5	164	5.6
BB38411	198	0.002	0.06	0.19	4	8.6	113	1.9	0.08	22.3	0.856	0.78	6.4	172	7.2
BB38412	116	0.002	0.05	0.35	3	3.8	481	1.05	<0.05	11.8	0.547	0.42	3.9	114	9.3
BB38413	214	<0.002	0.08	0.21	3	7.3	107.5	1.71	0.07	17.5	0.746	0.79	5.6	185	4.1
BB38414	190	<0.002	0.09	0.22	4	7.3	124	1.91	0.05	22.1	0.642	0.78	6.5	133	5.1
BB38415	193	<0.002	0.09	0.25	5	8.1	110	1.78	0.05	22.5	0.758	0.78	6.5	168	5
BB38416	165	0.002	0.06	0.3	3	5.8	171.5	1.58	0.07	12.6	0.884	0.69	3.1	177	4.9
BB38417	173.5	<0.002	0.03	0.23	3	6.4	187	1.89	0.08	12	1.11	0.76	2.8	209	4.1
BB38418	80.6	0.002	0.03	0.41	1	2.1	495	0.77	<0.05	7.6	0.373	0.34	2.5	74	1.5
BB38419	108.5	0.002	0.04	0.36	2	3.1	410	0.92	<0.05	8.2	0.544	0.44	2.7	106	1.8
BB38420	93.2	<0.002	0.03	0.36	2	2.8	427	1.02	<0.05	8	0.501	0.36	2.3	96	1.7
BB38421	161	0.002	0.1	0.29	3	4.8	122.5	1.43	<0.05	9.8	0.915	0.65	2.7	190	2.9
BB38422	165	<0.002	0.02	0.28	4	9.3	122	2.86	<0.05	10.6	1.305	0.64	2.6	193	7.1
BB38423	150	0.002	0.2	0.4	3	7	98.5	1.45	<0.05	12.9	0.708	0.77	3.8	147	4
BB38424	141.5	<0.002	0.04	0.34	3	13.9	104	2.6	<0.05	14.6	0.756	0.58	3.1	126	10.9
BB38425	142.5	<0.002	0.05	0.39	2	13.8	106	2.67	0.05	16.5	0.747	0.58	3.2	123	18.3
BB38426	146.5	<0.002	0.02	0.36	3	10.5	117	2.1	0.05	11.3	1.055	0.58	2.5	204	4.1
BB38427	126	<0.002	0.02	0.32	3	11.9	105.5	2.36	<0.05	22.5	0.568	0.55	3.3	79	5
BB38428	142	<0.002	0.01	0.24	2	13.9	89.5	2.28	<0.05	34.3	0.333	0.67	3.7	39	5.9
BB38429	237	<0.002	0.01	0.55	2	17.7	77.3	3.03	<0.05	36.2	0.271	0.98	7.1	39	6.2
BB38430	147	<0.002	0.03	0.34	2	13.6	100	4.96	<0.05	31.2	0.365	0.6	4.3	49	8.8
BB38431	119.5	<0.002	0.08	0.31	3	5.4	274	1.31	<0.05	14.6	0.538	0.56	6.3	114	3.4
BB38442	64.8	<0.002	0.06	0.5	2	1.6	425	0.64	<0.05	7.8	0.194	0.3	3.8	33	2
BB38443	169	<0.002	0.01	0.28	2	11.1	119	1.93	<0.05	32.5	0.297	0.7	4.4	37	49.2
BB38444	100.5	<0.002	0.17	0.64	2	4.6	81	1.12	0.05	15.4	0.261	0.46	10.3	79	7.3
BB38445	149	<0.002	0.05	0.43	3	9.4	136.5	1.89	<0.05	16.8	0.675	0.67	8.5	111	4.8
BB38446	139	<0.002	0.1	0.38	3	7.7	136	1.63	0.05	14.6	0.539	0.7	9.4	97	5
BB38447	198.5	<0.002	0.03	0.43	3	11.9	105.5	2.47	<0.05	17.6	0.748	0.74	4.5	130	5.8
BB38448	75.4	<0.002	0.04	0.45	1	2.1	564	0.58	<0.05	8.3	0.245	0.29	2.4	45	1.1
BB38449	117	<0.002	0.03	0.36	2	8.1	378	1.36	<0.05	9.1	0.703	0.46	3.2	134	7
BB38450	147.5	<0.002	0.03	0.34	3	10.1	107	2.38	<0.05	12.7	0.875	0.63	2.8	156	7.3
BB38451	209	<0.002	0.02	0.25	2	16	114	2.6	<0.05	25.6	0.828	0.88	4.3	116	26
BB38452	191.5	<0.002	0.01	0.19	2	10.9	102.5	1.93	<0.05	29	0.328	0.75	3.5	42	3.8
BB38453	154	<0.002	0.03	0.45	2	8.2	223	1.69	<0.05	17.8	0.318	0.53	3.6	50	3.1
BB38454	148	<0.002	0.04	0.3	2	11.3	107.5	2.02	<0.05	26	0.461	0.64	3.5	65	4.2
BB38455	155.5	<0.002	0.03	0.73	2	10.4	203	2.12	0.05	22.3	0.66	0.75	5.2	123	6.1
BB38456	92.6	<0.002	0.04	0.49	2	6.5	357	1.58	<0.05	11	0.512	0.36	2.7	77	2.9
BB38457	152	<0.002	0.02	0.32	2	10.4	175.5	1.85	<0.05	17.2	0.371	0.69	2.9	50	7
BB38458	144	0.002	0.03	0.38	3	11.3	113	2.21	<0.05	22.7	0.662	0.6	3.7	116	20.3

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



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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
BB38409		49.6	130	38.7
BB38410		51.7	152	49.9
BB38411		60.9	158	47.6
BB38412		26.3	96	82.1
BB38413		39.9	182	43.9
BB38414		44.8	184	53.4
BB38415		53.1	182	48.8
BB38416		48.6	108	50.3
BB38417		50.4	124	49.3
BB38418		17	66	94.2
BB38419		24.3	80	86.2
BB38420		22.5	77	80.4
BB38421		40.8	108	27.2
BB38422		71	140	32
BB38423		36.4	78	29.2
BB38424		34.2	71	28.5
BB38425		35.1	74	37.1
BB38426		41.5	116	44
BB38427		25.1	46	45.1
BB38428		16.4	23	41.8
BB38429		17.7	51	25.2
BB38430		17.1	35	35.2
BB38431		27.8	104	69
BB38442		10.4	41	99.2
BB38443		18.6	29	34.4
BB38444		11.2	46	41.4
BB38445		45.8	92	36.7
BB38446		34.4	78	37.7
BB38447		34.4	100	36.5
BB38448		9.5	48	108.5
BB38449		26.2	93	71.9
BB38450		36.6	101	50.8
BB38451		27.1	76	47.8
BB38452		15.6	36	32.8
BB38453		10.4	36	78
BB38454		21.3	38	37.5
BB38455		21.5	80	59.2
BB38456		21.2	49	85.4
BB38457		15.8	40	42.4
BB38458		35.6	78	24.1

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CERTIFICATE OF ANALYSIS VA04041704

Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
Sample Description															
BB38459	0.22	<0.01	9.01	2.2	580	5.86	3.04	1.98	0.17	98.2	20	57	20.5	25.4	6.24
BB38460	0.26	<0.01	8.36	3.4	590	6.24	2.57	0.75	0.07	101.5	7.5	48	18.75	20.6	3.71
BB38461	0.22	<0.01	8.11	2	610	4.83	1.19	2.08	0.3	69.7	19	68	21.1	28.3	6.1
BB38462	0.26	0.19	7.33	2.8	630	4.76	0.99	2.03	0.19	73.8	17.4	60	21.1	27	5.81
BB38463	0.18	<0.01	7.43	1.4	570	4.13	0.64	2.19	0.26	71.8	21.3	57	16.65	27	6.33
BB38464	0.26	<0.01	8.2	1.4	630	3.75	0.59	2.39	0.18	60.6	20.1	61	19.05	21.2	5.69
BB38465	0.22	<0.01	8.15	1	640	4.08	0.55	2.39	0.15	74.6	23.1	66	17.2	31.5	6.61
BB38466	0.28	0.04	8.36	1.1	590	4.84	1.14	2.82	0.17	106.5	30.6	84	27.5	37.5	7.4
BB38467	0.28	<0.01	7.77	1.8	650	4.46	0.72	1.66	0.16	84	26.7	67	24.7	31.4	7.56
BB38468	0.30	<0.01	8.2	1.1	660	3.59	0.46	2.17	0.13	82.4	23.8	61	18.35	30.8	6.48
BB38469	0.46	<0.01	8.65	0.7	590	3.24	0.44	3.17	0.18	86.5	37.1	88	16.15	39.7	8.09
BB38470	0.40	<0.01	8.34	0.8	730	3.93	0.88	1.83	0.23	95.8	24.1	66	17.75	33.8	6.64
BB38471	0.38	<0.01	8.41	1.8	730	4.11	0.69	1.78	0.13	107	24	66	20.4	32.3	6.06
BB38472	0.48	<0.01	8.76	2.1	830	3.42	0.53	1.67	0.2	98.5	25.6	62	19.25	52	6.46
BB38473	0.42	<0.01	6.86	1.8	670	3.18	1.31	1.26	0.16	109.5	13.9	46	9.79	23	4.17
BB38474	0.46	<0.01	8.32	2.1	780	3.73	1.16	1.84	0.17	104.5	20.7	73	17.15	31.7	5.73
BB38475	0.48	<0.01	8.79	2.1	640	3.85	0.47	2.37	0.17	82.4	27.6	82	14.2	39.7	6.85
BB38476	0.34	<0.01	8.99	2	750	4.39	0.82	2.51	0.16	98.5	22.7	74	19.75	34.6	6.58
BB38477	0.46	<0.01	8.29	1.9	580	4.5	0.52	2.75	0.24	85.2	29.1	71	16.2	34	7.09
BB38478	0.36	<0.01	8.25	0.8	560	4.69	0.49	2.9	0.18	73.7	26.6	64	14.55	28	7.15
BB38479	0.40	<0.01	7.88	1.4	620	4.79	0.59	2.35	0.23	91.6	27.5	59	18.6	30.3	7.41
BB38480	0.36	<0.01	8.09	1.4	680	4.64	0.67	2.45	0.21	81.7	26	60	19	31.8	7.24
BB38481	0.44	0.05	7.44	2.4	590	4.61	0.66	2.88	0.21	77.2	23.6	59	14.4	24.8	6.94
BB38482	0.46	<0.01	7.26	1.6	580	3.5	0.74	1.98	0.14	71.8	12.8	43	9.62	17.5	4.39
BB38483	0.42	<0.01	7.92	1.9	580	5.86	1.36	1.68	0.18	88	16.4	44	15.9	19.7	4.96
BB38484	0.38	0.03	7.25	1	700	2.98	0.35	1.28	0.08	60.4	3.8	9	4.92	16.2	1.64
BB38485	0.36	<0.01	8.03	2.1	560	6.31	1.14	1.34	0.11	107	12.8	34	15.55	14.1	3.89
BB38486	0.38	<0.01	7.57	1.3	540	5.8	1.59	1.24	0.11	123.5	10.7	35	14.65	17	3.75
BB38487	0.44	<0.01	7.24	1.7	550	4.7	1.06	1.24	0.1	79.6	10.8	44	13.05	16.1	3.48
BB38488	0.44	0.02	8.39	0.9	940	5.41	0.72	1.28	0.23	286	23.6	63	9.07	30.8	5.69
BB38489	0.36	0.03	7.33	2.7	1000	3.37	0.75	0.81	0.28	132.5	15.5	57	7.39	27.6	4.52
BB38490	0.36	0.02	7.41	3.3	960	3.1	0.76	0.62	0.22	111.5	17.4	63	7.69	26.5	4.9
BB38491	0.44	0.02	7.41	3.1	940	3.3	0.57	1.1	0.17	124	19.4	64	10.9	29.9	5.47
BB38492	0.38	<0.01	7.34	2.6	920	3.03	1.41	0.45	0.17	105.5	9.2	34	12.8	22.8	4.66
BB38493	0.34	0.02	6.56	2.6	720	3.16	0.78	0.7	0.32	101	11.9	35	9.78	14	5.19
BB38494	0.30	0.44	7.02	2.5	790	3.28	0.99	0.62	0.2	138	8.5	40	10.3	24.4	3.96
BB38495	0.48	0.06	8.53	1.6	1060	4.58	0.59	0.54	0.36	183	17.8	58	8.43	26	5.25
BB38496	0.30	0.12	9.3	4.1	790	4.31	1.78	0.58	0.17	238	7.5	18	11.05	27.7	4.37
BB38497	0.38	0.06	8.59	4.5	860	4.07	2.16	0.42	0.35	240	11	19	9.88	31.7	4.14
BB38498	0.28	0.13	7.94	3	840	2.54	1.18	1.1	0.25	126.5	6.8	13	4.67	24.1	2.79

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



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CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm 0.05	ppm 0.05	ppm 0.1	ppm 0.005	% 0.01	ppm 0.5	ppm 0.2	% 0.01	ppm 5	ppm 0.05	% 0.01	ppm 0.1	ppm 0.2	ppm 10	ppm 0.5
BB38459		28.3	0.45	1.3	0.122	2.97	52.3	118	1.98	1000	1.67	1.65	37.4	22.4	1800	13.2
BB38460		25.8	0.36	1.3	0.058	2.53	56.7	98.3	0.63	313	1.78	1.57	25.6	18.6	570	18.7
BB38461		27	0.37	1.6	0.111	2.61	35.9	67.8	1.84	875	2.02	1.74	33.5	22.9	1370	9.9
BB38462		23.6	0.4	1.5	0.105	2.14	35.3	76.6	1.75	771	1.5	1.52	30.9	23.7	2360	10.5
BB38463		22.8	0.4	1.6	0.107	2.45	34.3	68.6	1.96	1015	1.34	1.68	32.6	23.9	1780	8.2
BB38464		24.4	0.45	1.4	0.102	2.66	31.3	77	2.08	947	0.97	1.94	33.5	23.3	1630	8.4
BB38465		24.7	0.46	1.6	0.115	2.56	33.5	83.6	2.24	1110	1.26	1.82	33.6	24.7	1980	8.4
BB38466		26.2	0.57	1.3	0.114	2.71	62.5	163	2.62	1255	1.4	1.31	35	30.5	2570	8
BB38467		29.6	0.46	1.5	0.12	2.84	43.4	112.5	2.3	1235	1.44	1.38	33.7	25.5	1600	9.1
BB38468		24.4	0.45	2.1	0.095	2.7	40.3	79.3	2.23	1095	1.27	1.84	28.4	23.9	1680	7.9
BB38469		25.8	0.53	1.2	0.11	2.89	39.8	95.7	3.09	1450	0.86	1.86	29	35.6	2080	7.2
BB38470		26.2	0.51	1.8	0.131	2.91	52.1	89.4	2.29	1250	1.3	1.73	32	27.1	1920	8.7
BB38471		28.1	0.54	2.2	0.116	2.83	59.7	72	2.16	1185	1.28	1.63	32.1	27.3	1730	8.5
BB38472		26.5	0.48	2.3	0.118	3.03	54.7	84.2	2.28	1290	1.69	1.5	28.4	26.6	1660	9.4
BB38473		22.3	0.49	2.9	0.103	2.26	61.8	42.7	1.2	969	2.1	1.72	30.7	19.4	1230	9.2
BB38474		23.6	0.5	2.3	0.111	2.78	56.5	68.7	1.96	1220	1.5	1.57	29.9	28.6	1740	9
BB38475		26.4	0.46	1.9	0.119	2.69	47.5	89	2.55	1130	1.06	1.89	28.5	32.4	1760	7.4
BB38476		26.1	0.52	2.5	0.109	2.78	52	80.6	2.15	1245	1.29	1.75	37.2	27.6	2430	8.6
BB38477		25.8	0.52	1.7	0.127	2.92	44.9	86.5	2.37	1205	1.04	1.78	38.1	29.4	2360	9.8
BB38478		24.7	0.46	1.7	0.124	2.51	39.6	67	2.28	1320	1.08	1.91	40	25.4	2630	9.7
BB38479		27.3	0.53	1.4	0.121	2.76	43.2	126	2.29	1220	1.3	1.64	43.3	25	2510	9.7
BB38480		28	0.5	1.4	0.12	2.89	36.3	106	2.29	1175	1.28	1.75	42	24.3	2100	9.6
BB38481		26	0.15	1.4	0.105	2.54	35.8	74.8	2.15	1145	1.19	1.76	36	24.8	2310	11
BB38482		25	0.11	2	0.077	2.27	34.3	49	1.28	694	1.46	1.85	29.3	15.1	1600	11.3
BB38483		27.2	0.12	1.6	0.088	2.75	41.1	98.8	1.58	807	1.72	1.59	31.3	18.4	1300	11.9
BB38484		20.8	<0.05	3.2	0.02	2.28	30.3	33.2	0.43	311	1.58	2.47	12.9	3.9	950	11.3
BB38485		29.5	0.18	1.5	0.08	3.1	61.1	111	1.29	622	1.65	1.66	37.7	15.8	1220	12.5
BB38486		27.2	0.16	1.6	0.07	2.83	59.2	101.5	1.06	542	1.96	1.64	31	15.6	960	13.4
BB38487		26	0.12	1.6	0.065	2.44	39.3	75.9	1.05	540	1.46	1.69	24.1	19.2	1080	14.6
BB38488		28.5	0.3	2.3	0.107	3.38	98.5	62	2.12	1385	3.29	0.6	26.2	31	2400	12.8
BB38489		25	0.18	2.6	0.108	3.04	63.1	52.2	1.68	883	3.7	0.8	24.2	25.7	1160	12
BB38490		27	0.18	3.3	0.115	3.5	51	46.6	1.93	1030	5.46	0.58	24	27.3	1080	13.3
BB38491		25.8	0.18	2.4	0.096	2.79	62.4	56	2.11	970	2.55	0.96	26	28.2	1300	11.5
BB38492		27.9	0.12	3.8	0.119	3.41	46.8	43	1.48	767	9.25	0.55	29.3	10.8	840	19.7
BB38493		27.2	0.18	3	0.104	2.71	47	55.5	1.19	784	5.13	0.66	32.5	12.1	990	19
BB38494		25.7	0.23	3	0.09	2.31	90.5	47.7	1.14	548	7.63	0.9	23.4	13.9	1630	32.4
BB38495		31.1	0.26	3.3	0.13	3.86	92.8	51.4	1.56	1180	7.02	0.47	29.4	27.5	1110	9.9
BB38496		31.8	0.37	4.4	0.137	3.15	144	46.5	1.8	821	14.35	0.9	21	9.7	1000	21.7
BB38497		31.3	0.35	4.3	0.149	4.11	134	48.1	1.92	1030	10.45	0.53	23.5	9.8	910	12.8
BB38498		24.2	0.18	4.2	0.082	2.88	73.1	31.8	1.02	612	6.52	1.61	14.4	6.1	770	13.1

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



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Project: Shine

Page: 5 - C
Total Pages: 6 (A - D)
Finalized Date: 18-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	V
		ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.2	% 0.005	ppm 0.02	ppm 0.1	ppm 1
BB38459		199.5	<0.002	0.02	0.36	3	13.3	130.5	2.69	0.28	19.2	0.919	0.8	3.7	164
BB38460		157.5	<0.002	0.02	0.4	2	14.1	120	2.24	0.05	22.4	0.437	0.71	4.1	87
BB38461		152	0.002	0.03	0.38	3	11.4	120	2.17	<0.05	9.4	1.04	0.64	2.5	198
BB38462		143	<0.002	0.07	0.46	3	12.7	116.5	2.28	0.05	11.3	0.896	0.65	2.5	177
BB38463		140.5	<0.002	0.04	0.35	3	8.6	111	2.07	0.05	9.8	1.035	0.52	2.3	186
BB38464		149	<0.002	0.04	0.27	3	9.7	128	2.32	<0.05	9.2	1.09	0.57	2.1	174
BB38465		155.5	0.002	0.06	0.31	4	8.1	136.5	1.95	<0.05	10.3	1.03	0.55	2.2	182
BB38466		187	<0.002	0.05	0.27	4	11.8	137.5	2.33	<0.05	10.6	1.26	0.77	3	228
BB38467		206	<0.002	0.05	0.31	3	8.4	135	1.95	<0.05	10.4	1.055	0.76	2.3	204
BB38468		155.5	0.002	0.03	0.26	3	6.3	237	1.76	<0.05	9.1	0.96	0.61	2.3	175
BB38469		148.5	<0.002	0.02	0.17	3	5.9	140.5	1.67	<0.05	8.2	1.26	0.56	2	258
BB38470		141.5	<0.002	0.02	0.28	3	6.6	145	1.8	0.05	13.1	0.93	0.66	2.6	180
BB38471		147	0.002	0.02	0.28	4	7.2	180	1.87	<0.05	15.3	0.888	0.57	2.8	166
BB38472		151	0.003	0.03	0.32	3	6.1	165.5	1.63	0.05	15.1	0.785	0.56	3.1	173
BB38473		116.5	<0.002	0.03	0.37	4	6.7	108.5	1.95	0.06	18.7	0.801	0.39	3	109
BB38474		140	0.002	0.02	0.38	4	7.1	137.5	1.87	0.06	15.3	0.936	0.56	2.8	168
BB38475		137	<0.002	0.02	0.26	3	6.3	152	1.61	0.05	12.3	0.987	0.56	2.3	208
BB38476		161.5	<0.002	0.03	0.29	4	9.4	144	2.34	0.05	13.9	1.17	0.58	2.8	197
BB38477		160	<0.002	0.02	0.26	4	8.3	135.5	2.37	0.05	10.1	1.325	0.57	2.1	228
BB38478		140	<0.002	0.02	0.23	4	9.6	143	2.5	<0.05	9.4	1.32	0.49	2.2	215
BB38479		196.5	<0.002	0.03	0.17	5	9.2	122.5	2.67	<0.05	9.2	1.235	0.7	2.3	194
BB38480		195.5	<0.002	0.03	0.15	4	9.3	123	2.49	<0.05	8.3	1.21	0.75	2.1	185
BB38481		144.5	0.002	0.02	0.35	3	11	129	2.59	<0.05	9.5	1.265	0.66	2.3	192
BB38482		108.5	0.002	0.04	0.4	2	8.9	193.5	4.16	<0.05	13	0.791	0.54	2.9	127
BB38483		173	0.002	0.02	0.35	2	12.2	136	2.96	0.06	16.4	0.759	0.88	3.7	125
BB38484		84.1	0.002	0.04	0.46	1	4.5	399	1.41	<0.05	14.7	0.249	0.42	3	36
BB38485		200	0.002	0.01	0.3	2	15	117	5.07	<0.05	28.2	0.62	0.91	5.1	94
BB38486		182.5	0.002	0.01	0.31	2	13.6	111	3.02	0.05	26.9	0.571	0.86	6	86
BB38487		151.5	0.002	0.02	0.35	2	11.1	129	2.05	<0.05	20.3	0.525	0.69	3.6	92
BB38488		188.5	0.003	0.05	0.34	3	7.7	106	1.91	<0.05	31.9	0.677	0.88	5.6	131
BB38489		143.5	0.002	0.03	0.45	2	6.9	94.2	1.88	<0.05	20.4	0.584	0.69	4.8	117
BB38490		154	0.002	0.03	0.47	2	7.2	107	1.79	<0.05	21.1	0.632	0.88	4.8	128
BB38491		132.5	0.002	0.03	0.54	2	6.4	110.5	1.84	<0.05	19	0.663	0.66	3.7	132
BB38492		160.5	0.002	0.07	0.44	2	9.2	68.2	2.21	0.05	22.2	0.718	0.77	4.8	115
BB38493		122	0.002	0.06	0.48	3	8.3	73.3	2.51	<0.05	18.2	0.757	0.66	4.1	114
BB38494		117.5	0.002	0.11	0.45	3	6.7	103	1.78	<0.05	34.3	0.466	0.68	12.2	96
BB38495		180	0.002	0.02	0.29	2	8.7	87.3	2.18	<0.05	29.2	0.584	0.85	8.3	110
BB38496		161.5	0.003	0.13	0.4	3	7.9	189.5	1.81	0.06	51.1	0.337	0.82	12.9	59
BB38497		178	0.002	0.16	0.3	3	10.2	104	2.04	0.07	47.2	0.361	1	11.3	61
BB38498		114.5	<0.002	0.1	0.52	2	5.2	354	1.22	<0.05	29.5	0.289	0.57	7.6	46

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



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Project: Shine

Page: 5 - D
Total Pages: 6 (A - D)
Finalized Date: 18-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61
		Y	Zn	Zr
		ppm 0.1	ppm 2	ppm 0.5
BB38459		47.9	105	23.5
BB38460		19.3	59	26.4
BB38461		46.5	106	33.6
BB38462		45.1	100	33
BB38463		49.2	113	33.6
BB38464		50.3	108	30.7
BB38465		50.4	113	36
BB38466		62.9	128	25
BB38467		45	144	33.5
BB38468		45.8	116	47.5
BB38469		53.5	128	23.3
BB38470		50.7	124	41.1
BB38471		52.9	111	48.8
BB38472		43.1	130	52.6
BB38473		40.8	79	63.3
BB38474		48.8	100	53.4
BB38475		47.5	126	44.6
BB38476		56.5	98	52.5
BB38477		64.5	142	33.7
BB38478		64.3	128	32.9
BB38479		58.1	156	28.5
BB38480		58.3	158	29.6
BB38481		65.3	124	35.6
BB38482		38.3	75	58.7
BB38483		38	88	40.5
BB38484		10.8	41	98.8
BB38485		41.1	66	34.3
BB38486		35.4	65	38.5
BB38487		24.2	64	42.3
BB38488		68.8	126	56.8
BB38489		38.3	164	70.2
BB38490		35.2	137	87.3
BB38491		39.2	126	67.6
BB38492		26.6	127	112
BB38493		41.9	114	82.4
BB38494		36.4	124	84
BB38495		41.8	217	91.2
BB38496		55.3	191	126
BB38497		51.3	201	118
BB38498		26	114	122.5

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



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Page: 6 - C

Total Pages: 6 (A - D)

Finalized Date: 18-JUL-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb	Re	S	Sb	Se	Sn	Sr	Ta	Te	Th	Tl	Tl	U	V	W
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
BB38499		195	0.002	0.11	0.31	3	11	61.7	2.4	0.07	45.6	0.469	0.94	12.9	77	5.9
BB38500		168.5	0.002	0.06	0.28	2	10	92.3	2.25	0.06	37.2	0.439	0.81	8.9	75	8.1

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



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Project: Shine

Page: 6 - D
Total Pages: 6 (A - D)
Finalized Date: 18-JUL-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04041704

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
BB38499		47.9	239	97.2
BB38500		41.9	219	84.2

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



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Page: 1
Finalized Date: 18-SEP-2004
Account: EMP

CERTIFICATE VA04059903

Project: Shine

P.O. No.:

This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 1-SEP-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
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

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

To: EP
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page: 2 - A

Total # Pages: 2 (A - D)

Finalized Date: 18-SEP-2004

Account: EMP

CERTIFICATE OF ANALYSIS VA04059903

Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	
Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	
LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
SH-1	1.80	0.07	2.09	0.9	60	2.66	40.8	0.05	<0.02	2.52	0.5	131	3.09	7.8	0.36	

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



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Project: Shine

Page: 2 - B
Total Pages: 2 (A - D)
Finalized Date: 18-SEP-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04059903

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	NI	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
SH-1		8.51	<0.05	0.3	0.01	1.1	1.3	24.8	0.03	79	1.88	0.57	6.7	2	50	6.2

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



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Project: Shine

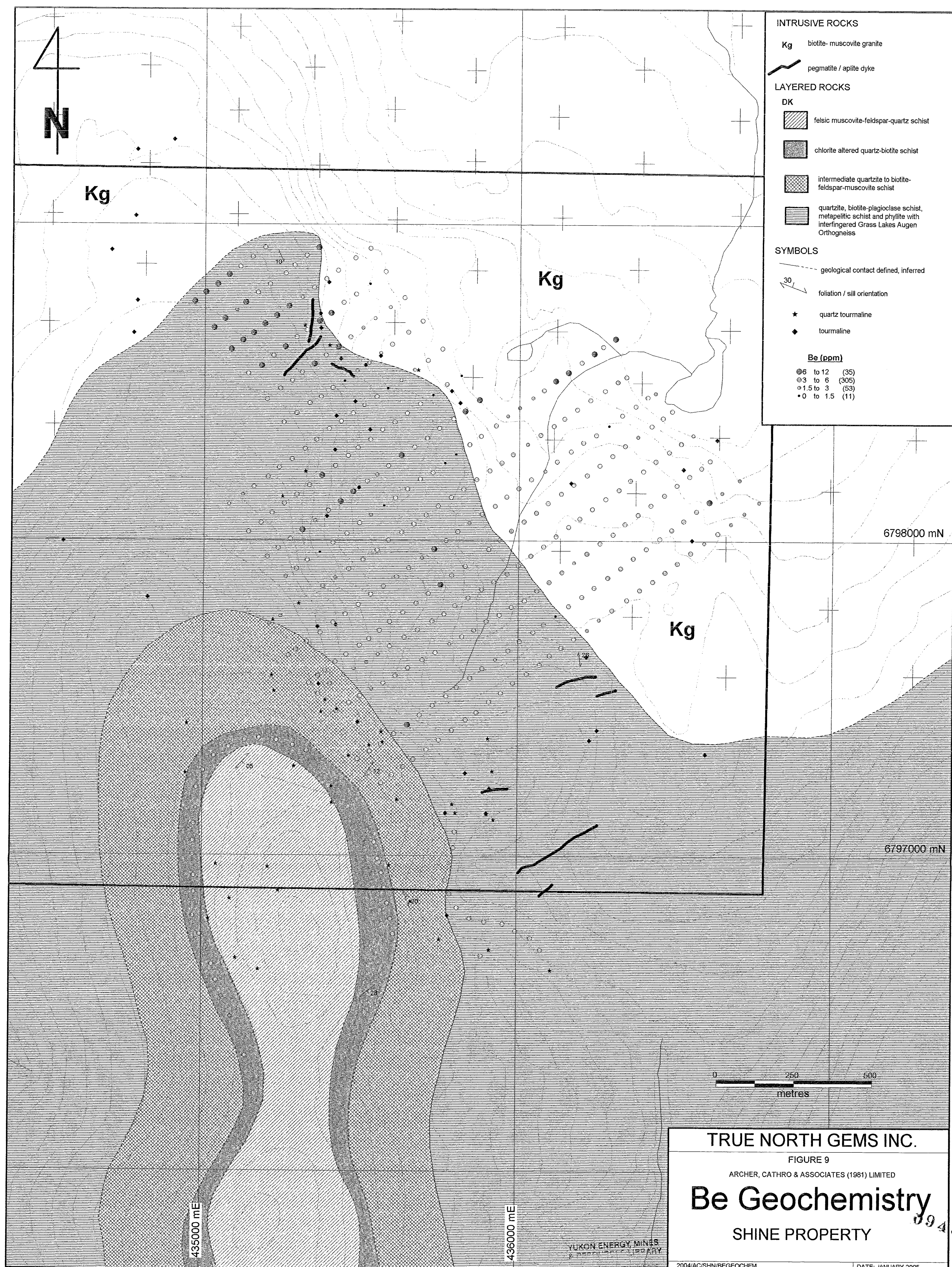


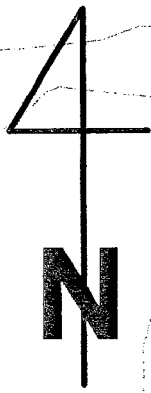
Page: 2 - D
Total Pages: 2 (A - D)
Finalized Date: 18-SEP-2004
Account: EMP

CERTIFICATE OF ANALYSIS VA04059903

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61
	Analyte	Y	Zn	Zr
	Units	ppm	ppm	ppm
	LOR	0.1	2	0.5
SH-1		1.4	5	3.2

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





6799000 mN

6798000 mN

6797000 mN

435000 mE

436000 mE



TRUE NORTH GEMS INC.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SAMPLE LOCATION

SHINE PROPERTY

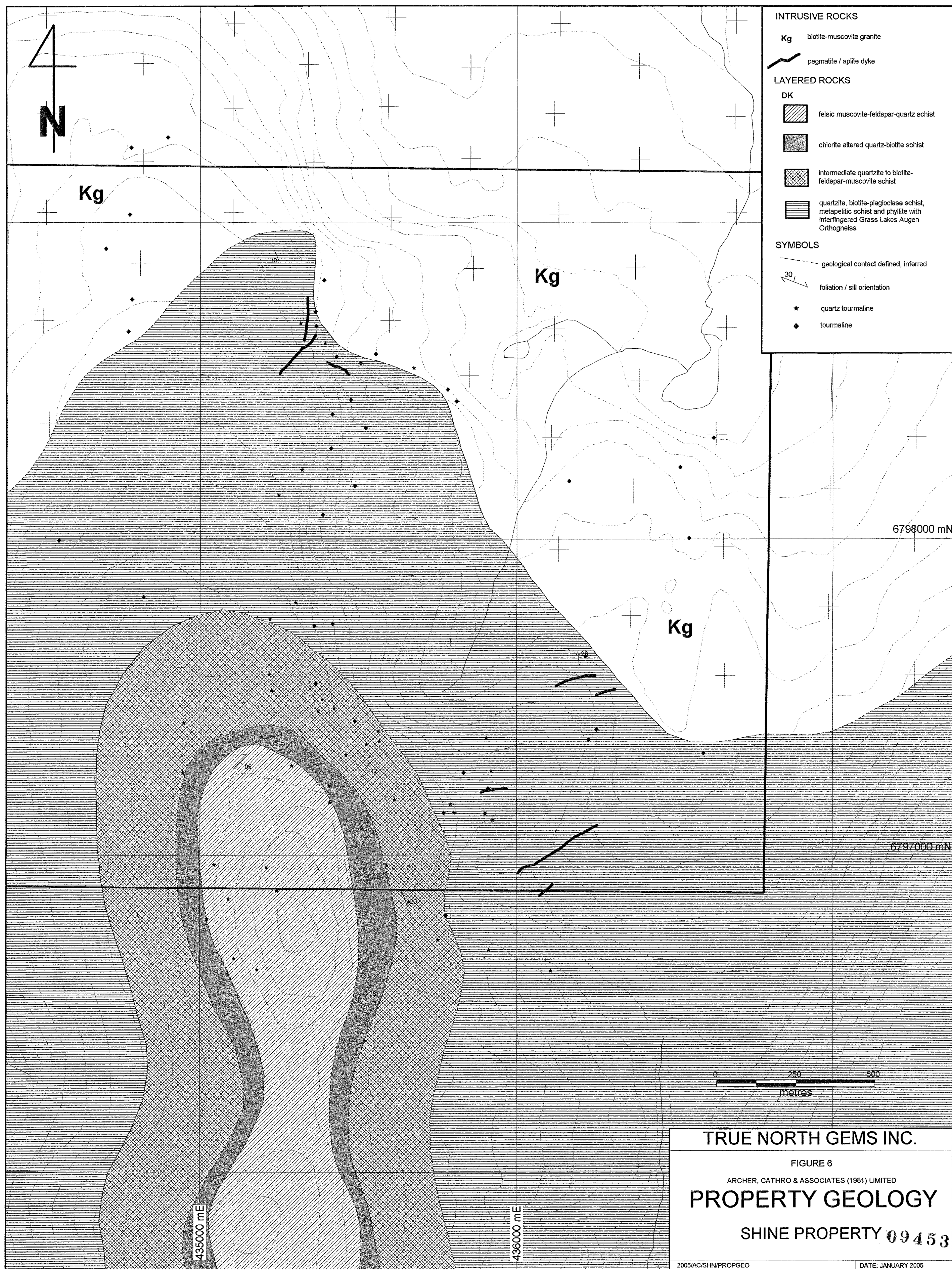
BB38488 soil sample location

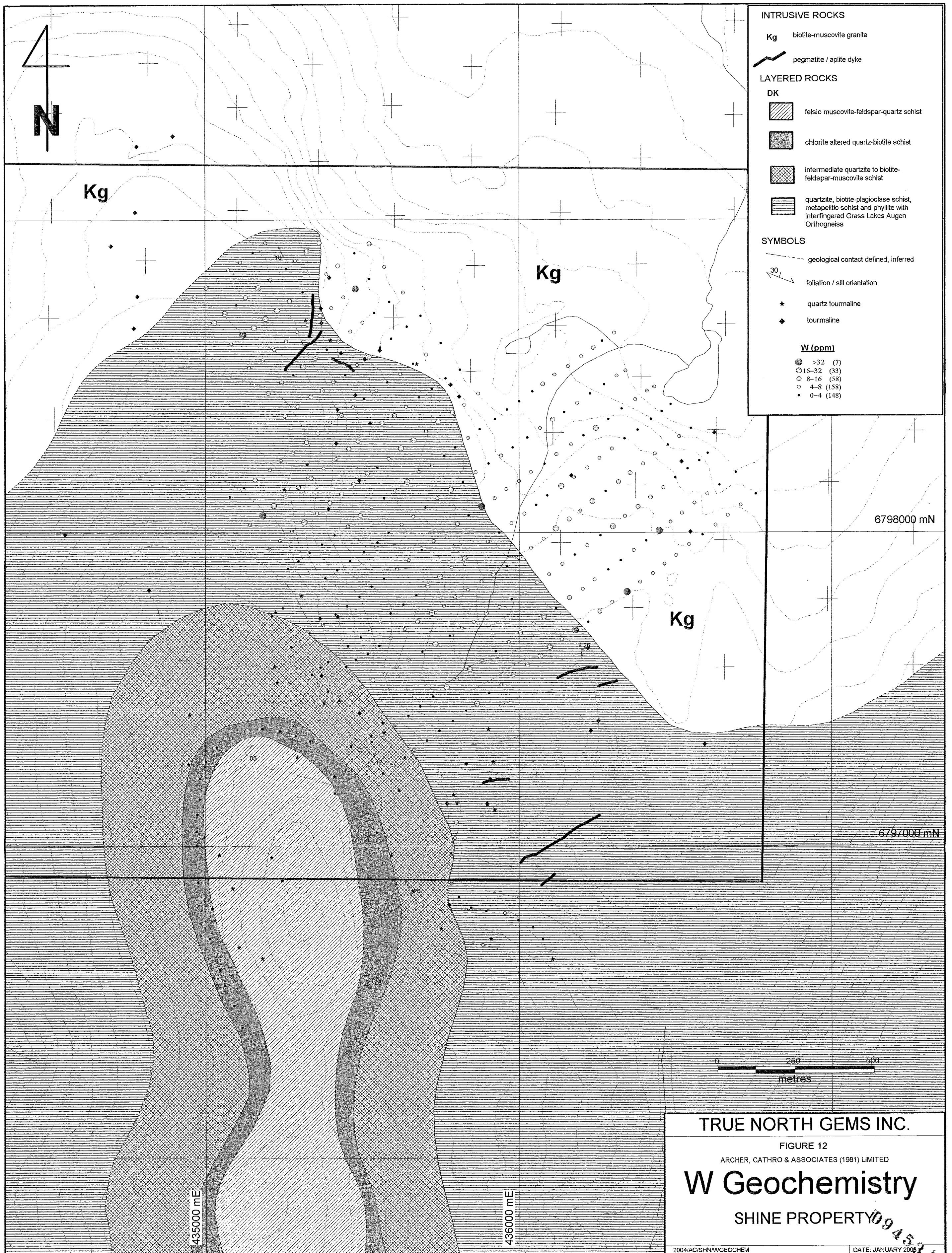
2004/AC/SHIN/SAMPLELOC

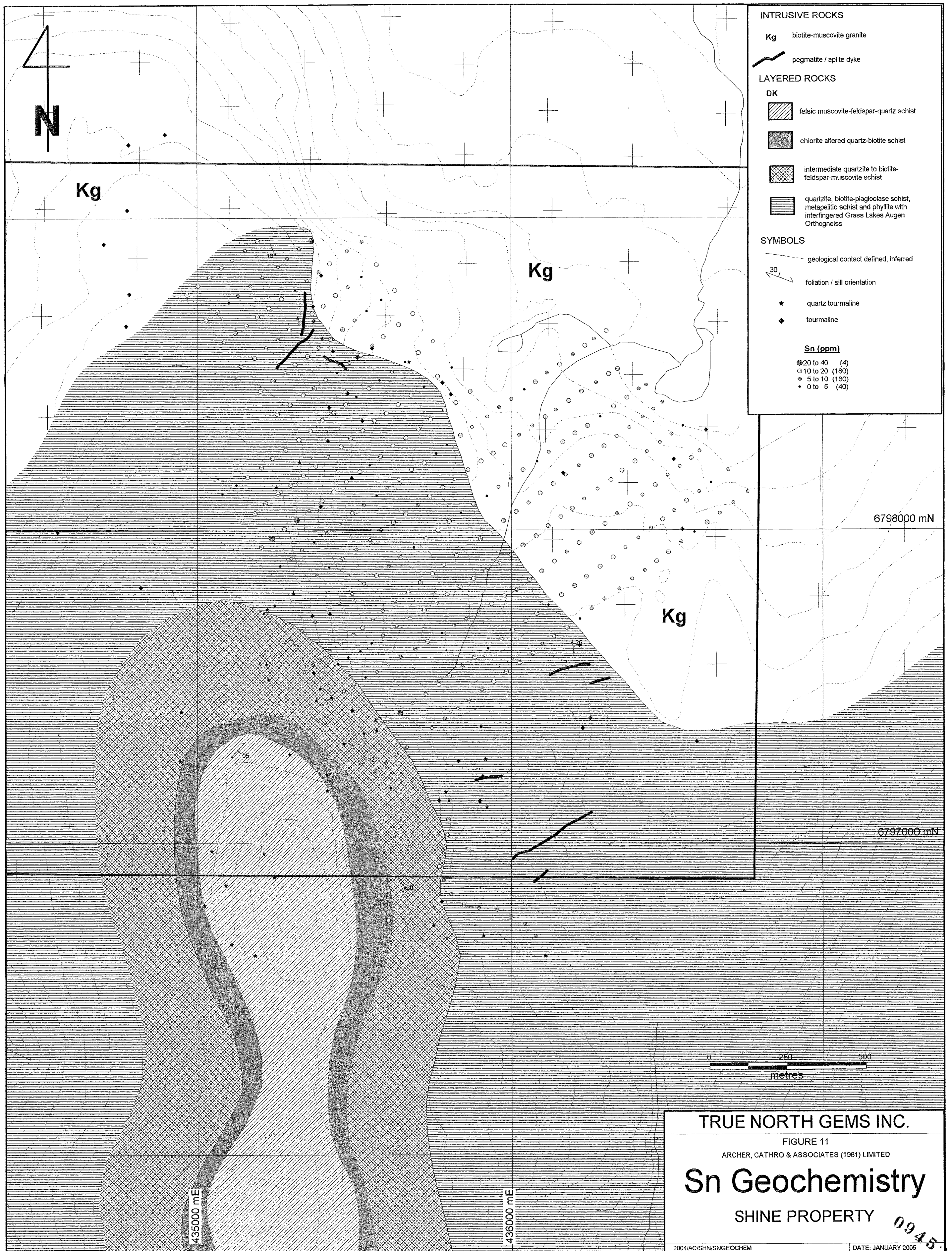
DATE: JANUARY 2005

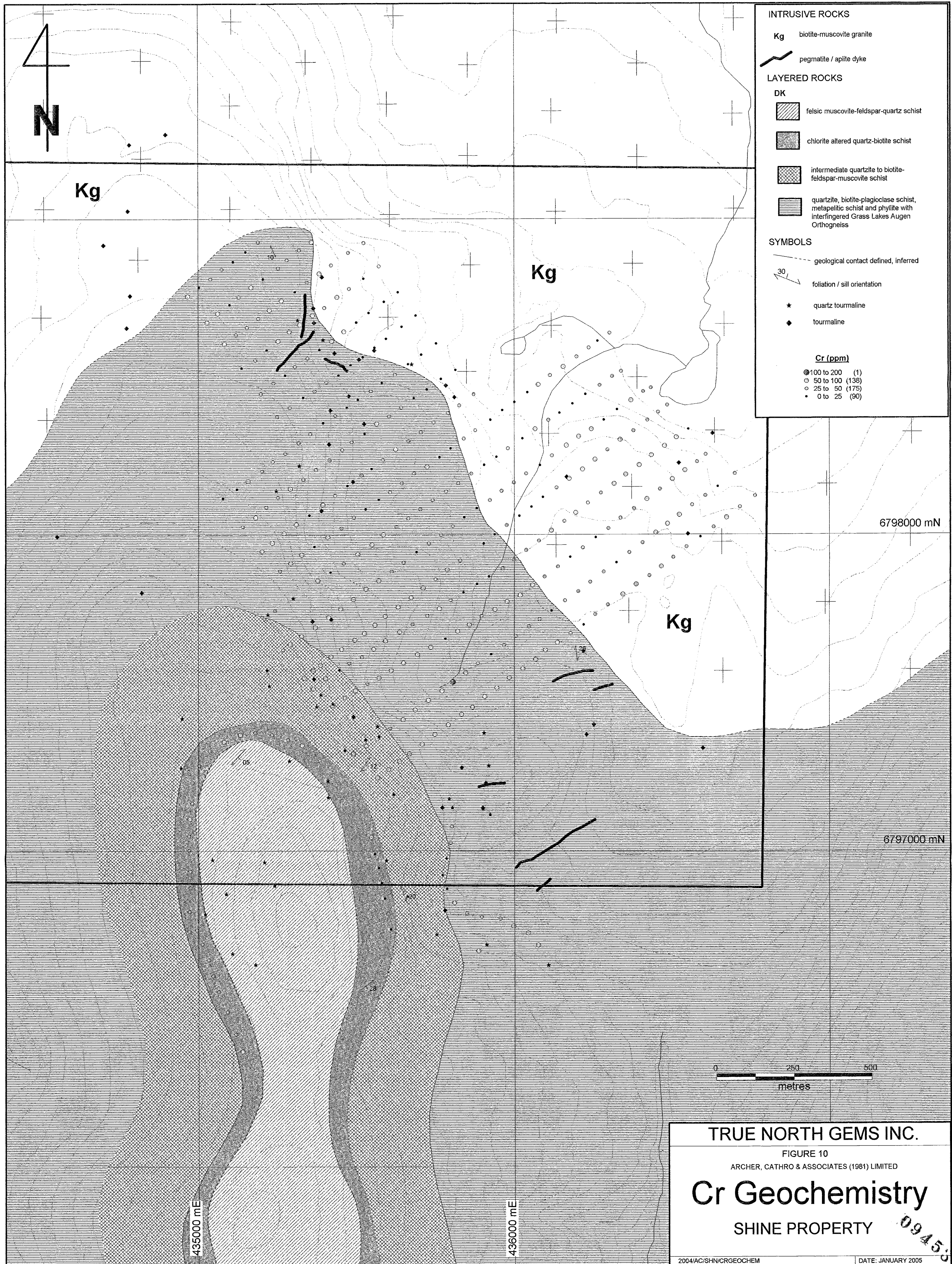
YUKON ENERGY, MINES
& RESOURCES LIBRARY
PO BOX 100
Whitehorse, Yukon Y1A 2C6

094531









TRUE NORTH GEMS INC.
FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
Cr Geochemistry
SHINE PROPERTY
2004/AC/SHN/CRGEOCHEM
DATE: JANUARY 2005

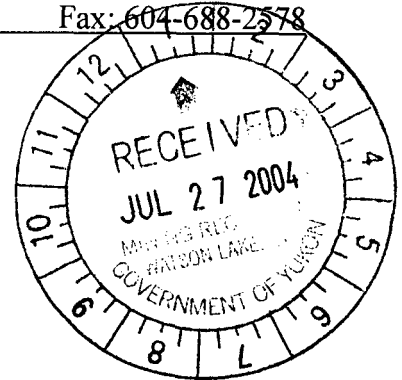
YUKON ENERGY, MINES
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P.O. BOX 1000
WHITEHORSE, Y.T. X1A 2S6

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 Shine 1-40
mineral claims on Claim Sheet 105G/8 is accurate.

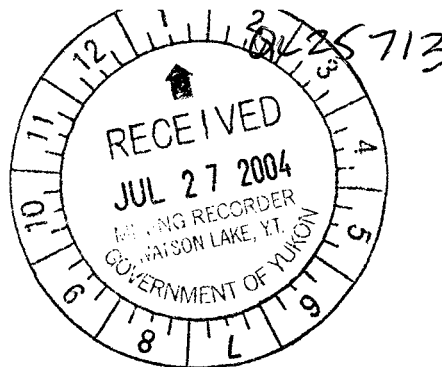

Joan Mariacher

Sworn before me at Vancouver, B.C.

this 23rd day of July, 2004


Notary Public, Yukon Territory

Statement of Expenditures
Shine 1-40 Mineral Claims
July 21, 2004



Labour

G. Downs – field assistant – June 21 to 26 – 6 days at \$320/day	\$ 2,054.40
H. Neufeld – geologist – June 21 to 26 – 6 days at \$352/day	2,259.84
A. Brand – field assistant – June 21 to 24 – 4 days at \$256/day	1,095.68
I. Korkh – field assistant – June 21 to 26 – 6 days at \$224/day	<u>1,438.08</u>
	6,848.00

Expenses

Field room and board – 22 days at \$125/day	2,942.50
ALS Chemex	7,823.20
Kluane Airways	741.51
Alkan Air	<u>1,498.00</u>
	13,005.21
	<u>\$19,853.21</u>



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To: EP
C/O ARCHER, CATHRO & ASSOCIATES (1981)
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VANCOUVER BC V6B 1L8



INVOICE NUMBER 1111354

BILLING INFORMATION

Certificate: **VA04041703**

Account: **EMP**

Date : **19-JUL-2004**

Project: Shine

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
240	PREP-41	Dry, Sieve (180 um) Soil	0.94	225.60
72.68	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	95.21
240	ME-MS61	47 element four acid ICP-MS	14.06	3,374.40
240	GEO-4A01	Four Acid Dig - ME-MS61	2.81	674.40

SUBTOTAL (CAD) \$ 4,369.61

GST R100938885 \$ 305.87

TOTAL PAYABLE (CAD) \$ 4,675.48

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

0125713



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



INVOICE NUMBER 1111358

BILLING INFORMATION

Certificate: **VA04041704**

Account: **EMP**

Date : **18-JUL-2004**

Project: Shine *h*

P.O. No.:

Quote:

Terms: **Due on Receipt**

C1

Comments:

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL
162	PREP-41	Dry, Sieve (180 um) Soil	0.94	152.28
43.18	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.31	56.57
162	ME-MS61	47 element four acid ICP-MS	14.06	2,277.72
162	GEO-4A01	Four Acid Dig - ME-MS61	2.81	455.22

SUBTOTAL (CAD) \$ 2,941.79

GST R100938885 \$ 205.93

TOTAL PAYABLE (CAD) \$ 3,147.72

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

94257115

QL25713

KLUANE AIRWAYS LTD.

BOX 31489
WHITEHORSE, YUKON Y1A 6K8

ARCHER CATHRO

CHARTERER

0623104			
INVOICE DATE			
HSDOC		XCA	
AIRCRAFT TYPE		REGISTRATION	

NO 5230

BILLING ADDRESS

PHONE:

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
Money Creek			Allison Brand
TO True North			Have 1 person
→ Gems			to INCONNA to
MCEVOY LK		.7	Hect ALKAN'S
			NAVATO

SPECIAL INSTRUCTIONS	.7 @ 900 PER HOUR	630
	@ PER MILE	
EP	WAITING TIME @ / HR	
GRAHAM	FUEL 70L @ .90 / GAL.	6300
GP	PILOT'S EXPENSES	
Shine	OTHER	
	SUB-TOTAL	69300
CHARTERER'S SIGNATURE	GST	48.51
	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$ 741.51
PILOT'S SIGNATURE	WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book.)	WILLOW PRINTERS LTD.

Brian.

PILOT'S SIGNATURE

ALKAN AIR LTD.

105 LODESTAR LANE

WHITEHORSE, YUKON Y1A 6E6

PHONE: 867-668-2107 FAX: 867-667-6117

INVOICE

9595-01

PA 31

C-GSDT

ARCHER CATHRO & ASSOCIATES

1016-510 W. HASTINGS STREET

VANCOUVER, B. C. V6B 1L8

JUNE 23, 2004

FROM	WHITEHORSE	MILES	HOURS	PAX/CARGO/PURPOSE
TO	McEVOY LAKE	180		ALLISON BRAND
	WHITEHORSE	180		
* SUB FOR C-206				

MEALS		@	/HOUR	
HOTEL	360	@	QUOTE /MILE	\$1,400.00
TAXI		@	/GAL-LT	
CUSTOMS		OTHER	NAV CANADA FEES	
HANGAR		OTHER		
CALL-OUT		SUBTOTAL		\$1,400.00
PURCHASE		G.S.T. #100139625		\$98.00
FUEL		TOTAL		\$1,498.00

CONTRACT #

Serial No. 623040915

PILOT(S): NEUFELD

****2% PER MONTH (24% PER ANNUM) CHARGED ON ACCOUNTS OVER 30 DAYS**