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ASSESSMENT REPORT

describing

GEOLOGICAL MAPPING, PROSPECTING AND GEOCHEMICAL SAMPLING

Field work performed between June 16 and July 1, 2013

at the

MAGNUM PROPERTY

Magnum	1-46	YC28867-YC28912
	47-70	YC36154-YC36177
	71-144	YF36201-YF36274

located at

Latitude 64°26' N; Longitude 140°32' W
NTS 116C/07

in the

Dawson Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

H. Burrell, B.Sc., P.Geo.
March 2014

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INTRODUCTION

The Magnum property is primarily a volcanogenic massive sulphide (VMS) prospect, but is also prospective for polymetallic veins. It is located in west-central Yukon and is wholly owned by Strategic Metals Ltd.

This report describes a program of geochemical sampling, prospecting, and geological mapping performed by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. Field work was performed between June 16 and July 1, 2013. The author participated in the program and interpreted all results from it; her Statement of Qualifications appears in Appendix I. A Statement of Expenditures is in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Magnum property is located at latitude 64°26' north and longitude 140°32' west on NTS map sheet 116C/07 (Figure 1). It comprises a total of 144 contiguous mineral claims covering approximately 2900 ha (29 sq. km). The claims are registered with the Dawson Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim registration data are listed below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Magnum 1-46	YC28867-YC28912	March 24, 2022
47-70	YC36154-YC36177	March 24, 2022
71-144	YF36201-YF36274	March 24, 2020

* Expiry dates include 2013 work that has been filed for assessment credit but has not yet been accepted.

The 2013 work was completed from two fly camps on the property (Figure 2). A staging area located in the southwestern corner of the property, near the confluence of Clinton Creek and the Forty Mile River, was used for mobilization of crew and gear. Helicopter support for the program was provided by a Bell 206B helicopter operated by Fireweed Helicopters Ltd. from its base in Dawson City.

The claims are situated about 60 km by air northwest of Dawson City. The southern edge of the claim block adjoins the abandoned town site of Forty Mile. The area can also be reached via a haulage road to the former Clinton Creek Mine, which crosses the southwestern part of the Magnum property. The Clinton Creek Road branches off the Top of the World Highway, about 60 km west of Dawson City. The road is usually open from late May to late fall. An overgrown bulldozer road extends from the Clinton Creek Road to the south-central part of the Magnum property (Figure 2). Driving from the west side of the Dawson City ferry crossing to the property is about 90 minutes.

The property is located within the traditional territory of the Tr'ondëk Hwëh'in First Nation, and it borders Class A lands to the north and east (Figure 2). Access to the property does not require crossing first nation's settlement land.

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED





PROPERTY LOCATION

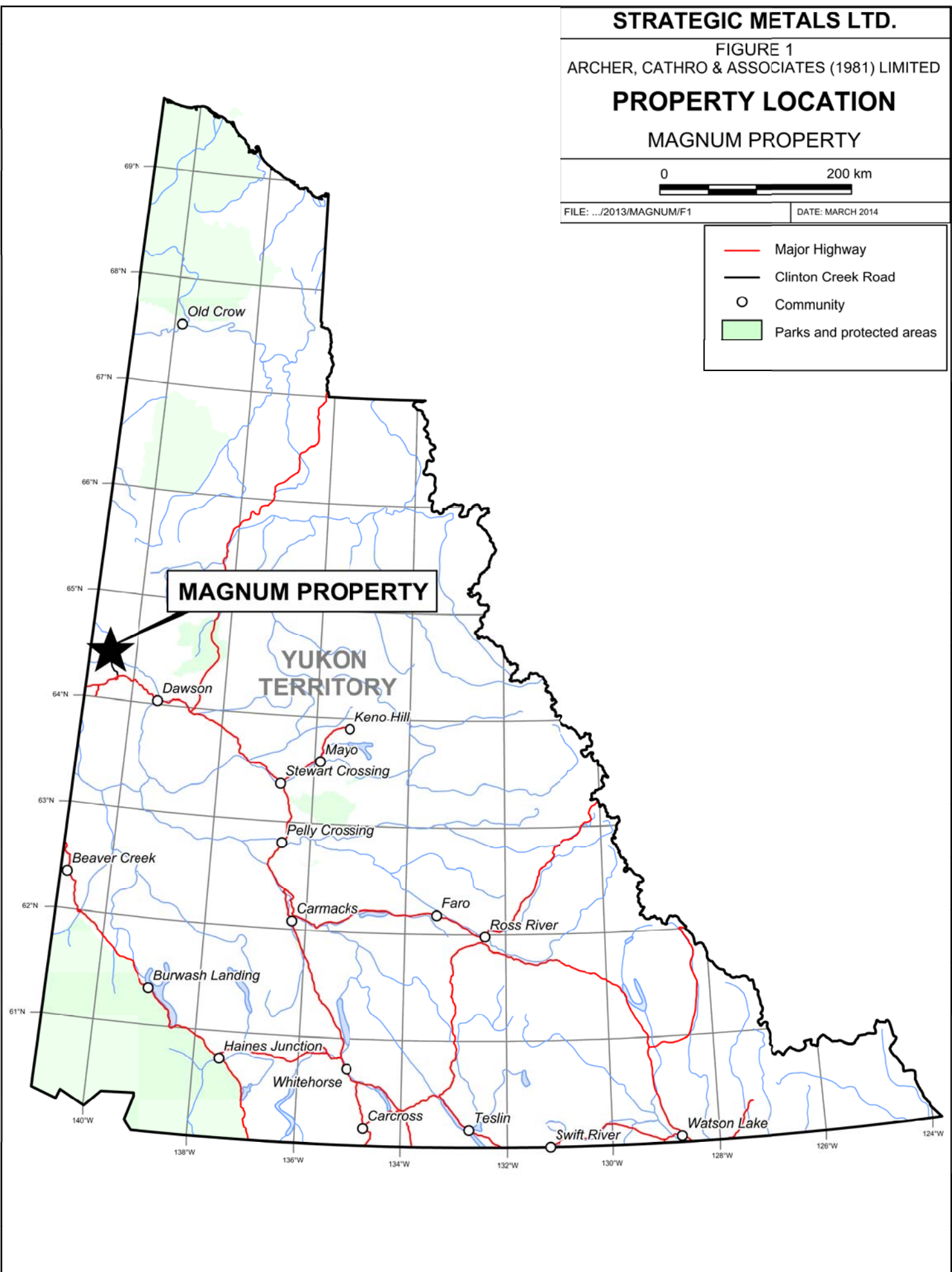
MAGNUM PROPERTY

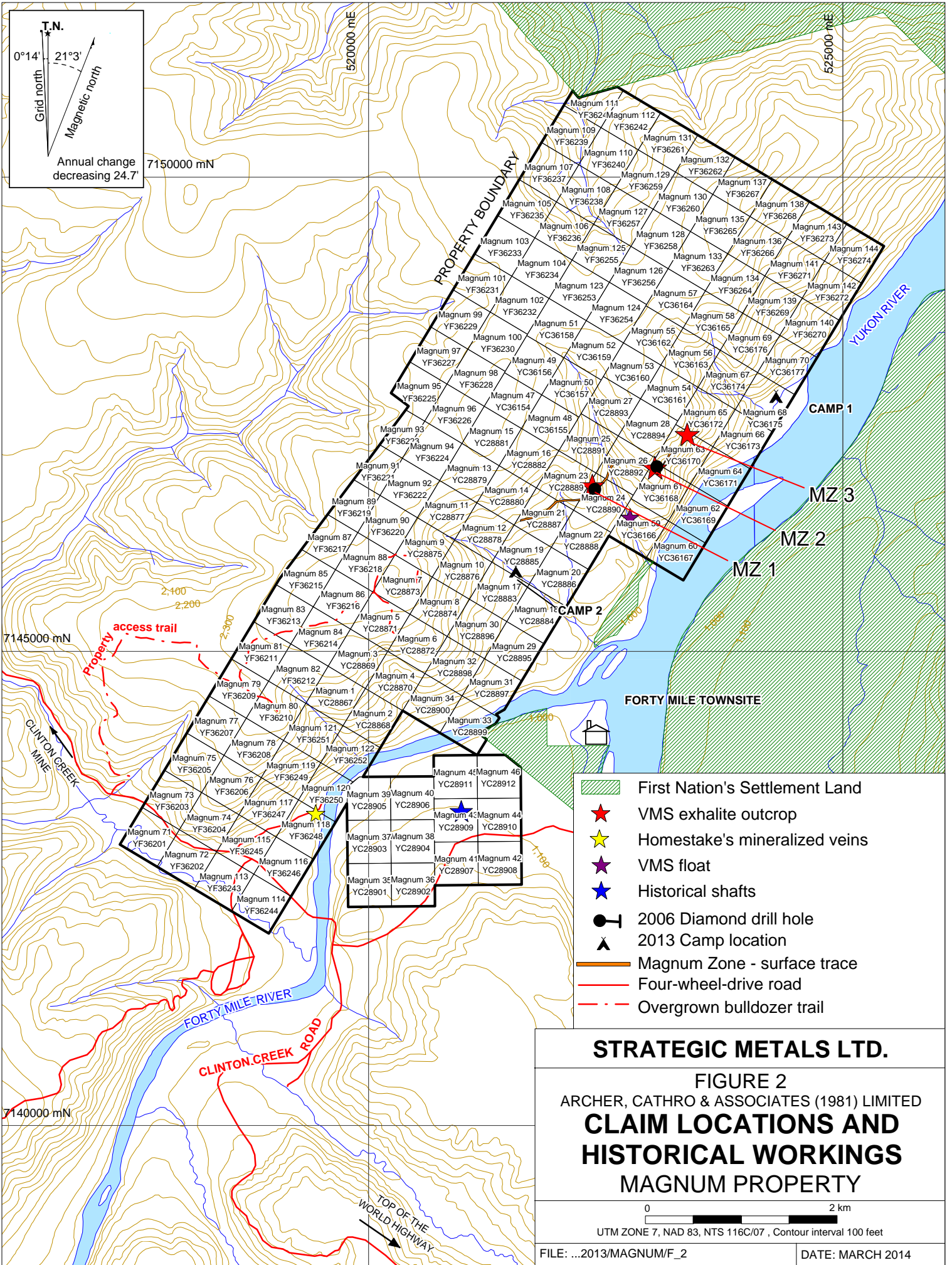


FILE: .../2013/MAGNUM/F1

DATE: MARCH 2014

-  Major Highway
-  Clinton Creek Road
-  Community
-  Parks and protected areas





T.N.
 0°14' 21°3'
 Grid north
 Magnetic north
 Annual change decreasing 24.7'

- First Nation's Settlement Land
- VMS exhalite outcrop
- Homestake's mineralized veins
- VMS float
- Historical shafts
- 2006 Diamond drill hole
- 2013 Camp location
- Magnum Zone - surface trace
- Four-wheel-drive road
- Overgrown bulldozer trail

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FIGURE 2
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**CLAIM LOCATIONS AND
 HISTORICAL WORKINGS**
 MAGNUM PROPERTY

0 2 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour interval 100 feet

FILE: ...2013/MAGNUM/F_2 DATE: MARCH 2014

HISTORY AND PREVIOUS WORK

Exploration and mining activities were initiated in the Forty Mile River area in 1886 following the discovery of placer gold. Within a year, 14,000 ounces of gold had been mined and the historical town of Forty Mile was established at the confluence of the Forty Mile and Yukon rivers.

In 1890, William Ogilvie made the first 'lode' discovery in Yukon when he found a piece of massive galena at the mouth of the Forty Mile River. This sample assayed 1322 g/t silver and trace gold (McConnell, 1890). Additional lead and silver mineralization was identified by placer miners in two shafts dug about one kilometre west of the Forty Mile town site (Figure 2).

Prior to 1887, asbestos was noted in the Forty Mile area by placer miners but the first asbestos showing was not staked until 1957. Subsequent exploration led to the discovery of the Clinton Creek Deposit in 1963. The Clinton Creek Mine operated from 1966 to 1978, when it was shut down and all assets were disposed of to the public (Deklerk and Traynor, 2005).

Although lode gold exploration has been conducted sporadically by various parties near the Magnum property since the late 1890s, it is generally poorly documented.

From 1979 to 1981, Archer Cathro conducted exploration programs in the Forty Mile River area on behalf of the Teslin Joint Venture (TJV). The main focus of these programs was asbestos, but some stream sediment samples were collected and analysed for base metals, gold and arsenic. Forty-three stream sediment samples were taken by TJV from creeks draining the Magnum property. These samples returned some strongly anomalous results for gold (57, 126 and 142 ppb) and arsenic (145, 205 and 335 ppm), but low copper values (Murray et al., 1981). Results from this program are discussed in more detail in the Soil and Silt Geochemistry section below.

In 1979, a representative sample taken from a dump next to one of the historical shafts near the Forty Mile town site returned 96 g/t silver, 3.4 g/t gold, 5.7% lead, 3.4% zinc and 0.3% copper (Deklerk and Traynor, 2005). No follow-up work was performed.

The most comprehensive lode gold exploration program conducted in the Magnum area was performed in 1988 by Homestake Mineral Development Company Limited. Homestake's exploration program consisted of geological mapping, prospecting and soil geochemical sampling, from the junction with the Yukon River 10 km up the Forty Mile River (McIvor, 1988). Very little outcrop was encountered during this mapping and the majority of the bedrock exposures are along the banks of the Forty Mile River. Homestake identified a VMS prospect (Magnum Zone) about two kilometres downstream from the confluence of the Forty Mile and Yukon rivers (Figure 2). This zone was reported to be a poorly exposed section of iron formation containing semi-massive magnetite interbedded with thin sucrosic quartz bands and highly weathered pyritic carbonate lenses. A total of 476 rock samples were collected during the 1988 program, 102 of which were taken within the current Magnum property. Lithochemical analyses of samples collected on the property returned sub-economic gold values; however, six quartz vein specimens taken along the banks of the Forty Mile River returned strongly

anomalous lead (up to 4320 ppm), zinc (up to 2262 ppm), and arsenic (up to 47,631 ppm) values. Subsequent to this program, Homestake allowed its claims to lapse.

During spring 2000, a two person crew spent seven days working within the area of the Magnum property on behalf of the Eureka Joint Venture (EJV), which consisted of Expatriate Resources Ltd. and Strategic Metals. EJV's work was designed to relocate and evaluate the Magnum Zone through mapping, prospecting and contour soil sampling. Results from this work are discussed in the Mineralization and Soil and Silt Geochemistry sections below.

In 2003, Strategic Metals staked the Magnum 1 to 46 claims to cover geochemically anomalous areas identified in 2000; and in 2005, it expanded the property by adding the Magnum 47 to 70 claims. In spring 2006, it contracted Aurora Geosciences Ltd. of Whitehorse to perform ground magnetic and very low frequency (VLF) geophysical surveys. These surveys identified laterally continuous magnetite-bearing stratigraphy, which was traced into heavily vegetated and overburden covered areas adjoining the Magnum Zone exposures. Strategic Metals then optioned the property to Klondike Silver Corp., which conducted prospecting, soil sampling, geophysical surveys and 368.81 m of diamond drilling in two holes – data relating to which are shown in Table I (Wengzynowski and Nunez, 2006). Klondike Silver contracted Archer Cathro to manage the field program and Geotech Airborne Geophysical Surveys of Aurora, Ontario to conduct helicopter-borne VTEM and magnetic surveys. Results from Klondike Silver's work on the Magnum property are discussed in later sections of this report.

Table I – Drill Hole Data

Hole	Easting	Northing	Elevation (m)	Azimuth	Angle	Depth (m)
MG-06-01	523040	7146945	1892	165°	-70°	208.79
MG-06-02	522386	7146705	1739	142°	-70°	160.02

From 2007 to 2011, the property was dormant.

During summer 2012, Strategic Metals expanded the property to cover more of the stream sediment anomalies reported by TJV; and later that year, it collected a total of 873 grid soil samples from the east-central part of the property in the vicinity of the Magnum Zone. Results from this sampling are described in the Soil and Silt Geochemistry section of this report.

In early 2013, Strategic contracted Condor Consulting Inc. to perform a detailed interpretation of Geotech's geophysical data. Results from this work are discussed in Geophysical Surveys section of this report.

GEOMORPHOLOGY

The Magnum property straddles the confluence of the Forty Mile and the Yukon rivers. North of the Forty Mile River elevations range from about 300 m on the banks of the Yukon River to 800 m atop a broad ridge on the western side of the property. Terrain in that part of the property is locally rugged, with some cliffs falling directly into the Yukon River. The best bedrock

exposures occur on cliff faces or within deeply incised drainages. South of the Forty Mile River, the claims cover a marshy flat.

The Magnum property is located in part of the Dawson Range that escaped Pleistocene glaciation. Soil profiles in the Dawson Range are complex compared to most other places in Yukon. Due to the absence of glaciation, the tops of ridges and spines are deeply weathered and often leached. Hillsides and valley bottoms show shallower weathering and are usually blanketed by deeper soil profiles, which from surface to bedrock typically consists of the following: a 10 to 50 cm thick layer of organic matter; a 0 to 20 cm thick layer of volcanic ash from the Mount Churchill eruption; a 0 to 100 cm thick layer comprised of loess mixed with soliflucted B and C horizon residual soil; and a layer of C horizon residual soil (Bond, 2007). Thick layers of fluvial gravel underlie the flats on the south side of the Forty Mile River.

A number of small creeks drain the Magnum property. Most of the creeks flow directly into the Yukon River, but some in the southwestern part of the property drain into Clinton Creek, which flows into the Forty Mile River and then the Yukon River.

Much of the claim block is thickly vegetated with buckbrush and stunted black spruce or slide alder growing in an old forest fire burn. Stands of mature black spruce up to 10 m tall flank the Forty Mile and Yukon rivers. The entire property is below tree line.

REGIONAL GEOLOGY

The Magnum property lies within the Yukon-Tanana Terrane (YTT), approximately five kilometres southwest of the Tintina Fault (Figure 3). YTT comprises a variety of Late Devonian to Early Mississippian metavolcanic and metasedimentary rocks, and represents both arc and back-arc environments (Colpron and Nelson, 2011; Piercey et al., 2006). The Tintina Fault is a transcurrent structure that experienced about 450 km of dextral strike-slip movement during the Eocene. This movement offset a segment of YTT in the Finlayson Lake District of southeastern Yukon from the main body of YTT, which lies southwest of the fault.

YTT rocks of back-arc affinity occur mainly in the Finlayson Lake District where they are host to four major VMS deposits –Wolverine, Kudz Ze Kayah, Fyre Lake and GP4F. Back-arc facies are dominated by bimodal metavolcanic rocks associated with fine grained carbonaceous metaclastic rocks. The geochemical signatures at the Wolverine and Kudz Ze Kayah deposits are enriched in zinc, silver, copper, gold, lead, antimony and selenium. The Wolverine Mine, owned by Yukon Zinc Corporation, is the most advanced deposit hosted by YTT rocks in the Finlayson Lake District. It commenced production in 2012 with a measured and indicated mineral resource of 4.46 Mt grading 12.14% zinc, 354.8 g/t silver, 1.16% copper, 1.70 g/t gold and 1.58% lead, which is described in a NI43-101 compliant report (Yukon Zinc Corp., 2013).

YTT rocks are often overlain, or intruded, by Anvil Assemblage rocks, which comprise mafic volcanics, oceanic sediments and related mafic to ultramafic intrusions formed in a back-arc setting during the Carboniferous to Permian. The Ice Deposit is hosted by Anvil Assemblage rocks and consists of Cyprus-type VMS mineralization.

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

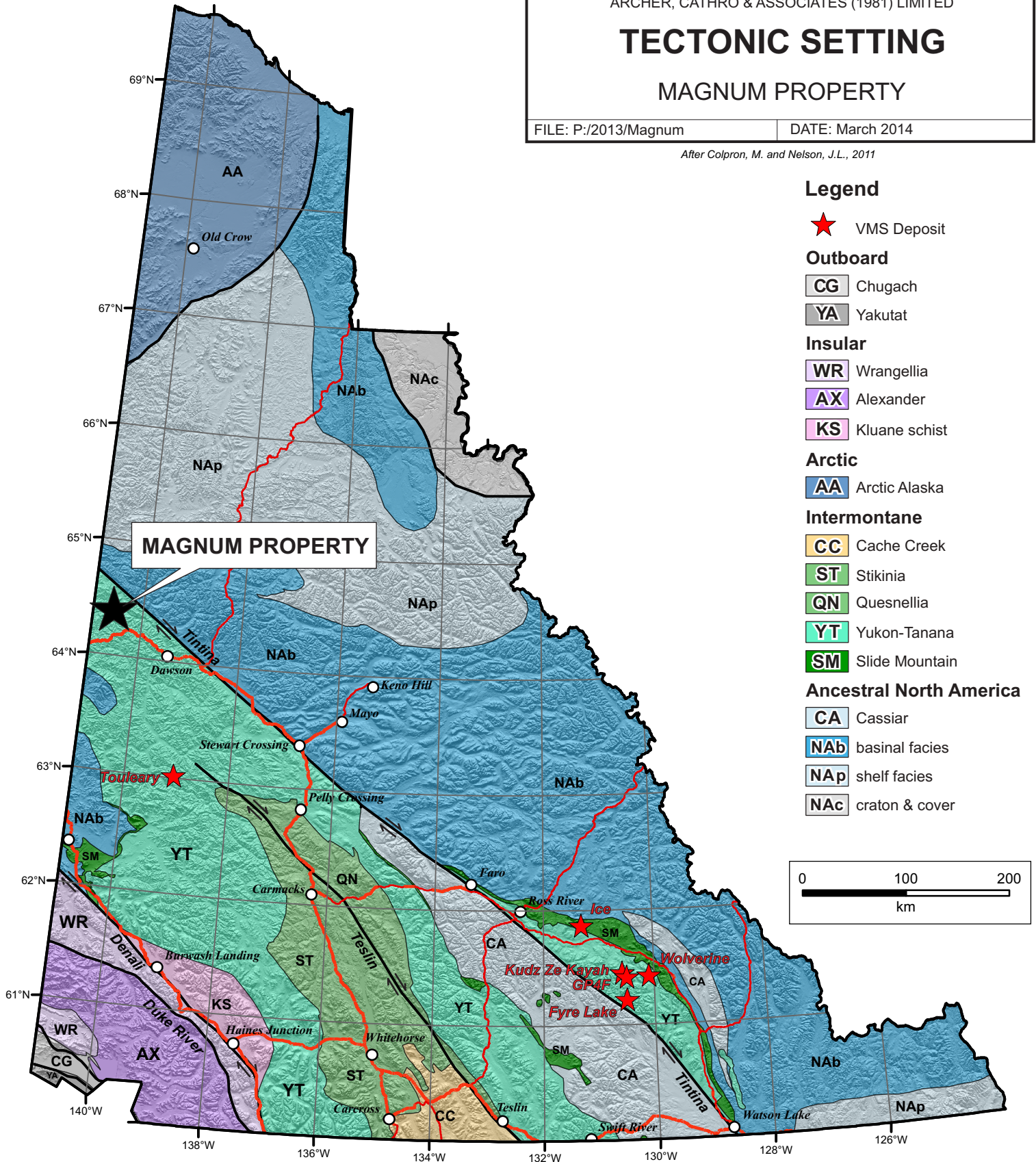
TECTONIC SETTING

MAGNUM PROPERTY

FILE: P:/2013/Magnum

DATE: March 2014

After Colpron, M. and Nelson, J.L., 2011



Legend

★ VMS Deposit

Outboard

CG Chugach

YA Yakutat

Insular

WR Wrangellia

AX Alexander

KS Kluane schist

Arctic

AA Arctic Alaska

Intermontane

CC Cache Creek

ST Stikinia

QN Quesnellia

YT Yukon-Tanana

SM Slide Mountain

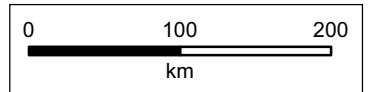
Ancestral North America

CA Cassiar

NAb basinal facies

NAp shelf facies

NAc craton & cover



Southwest of Tintina Fault, the YTT assemblage comprises mostly intermediate to mafic metavolcanic and metavolcaniclastic rocks of arc affinity, and fringing metasedimentary rocks (Colpron and Nelson, 2011). Some Anvil Assemblage rocks are stratigraphically and structurally interdigitized with the YTT assemblage. VMS-style mineralization has recently been discovered on the southwest side of the Tintina Fault at the Touleary property owned by Arcus Development Group Inc. and ATAC Resources Ltd.

Table II contains a brief summary of the main lithologies in the Magnum property area while Figure 4 illustrates the distribution of those lithologies.

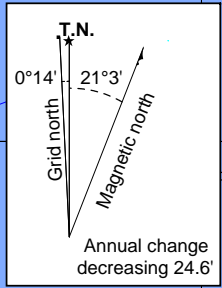
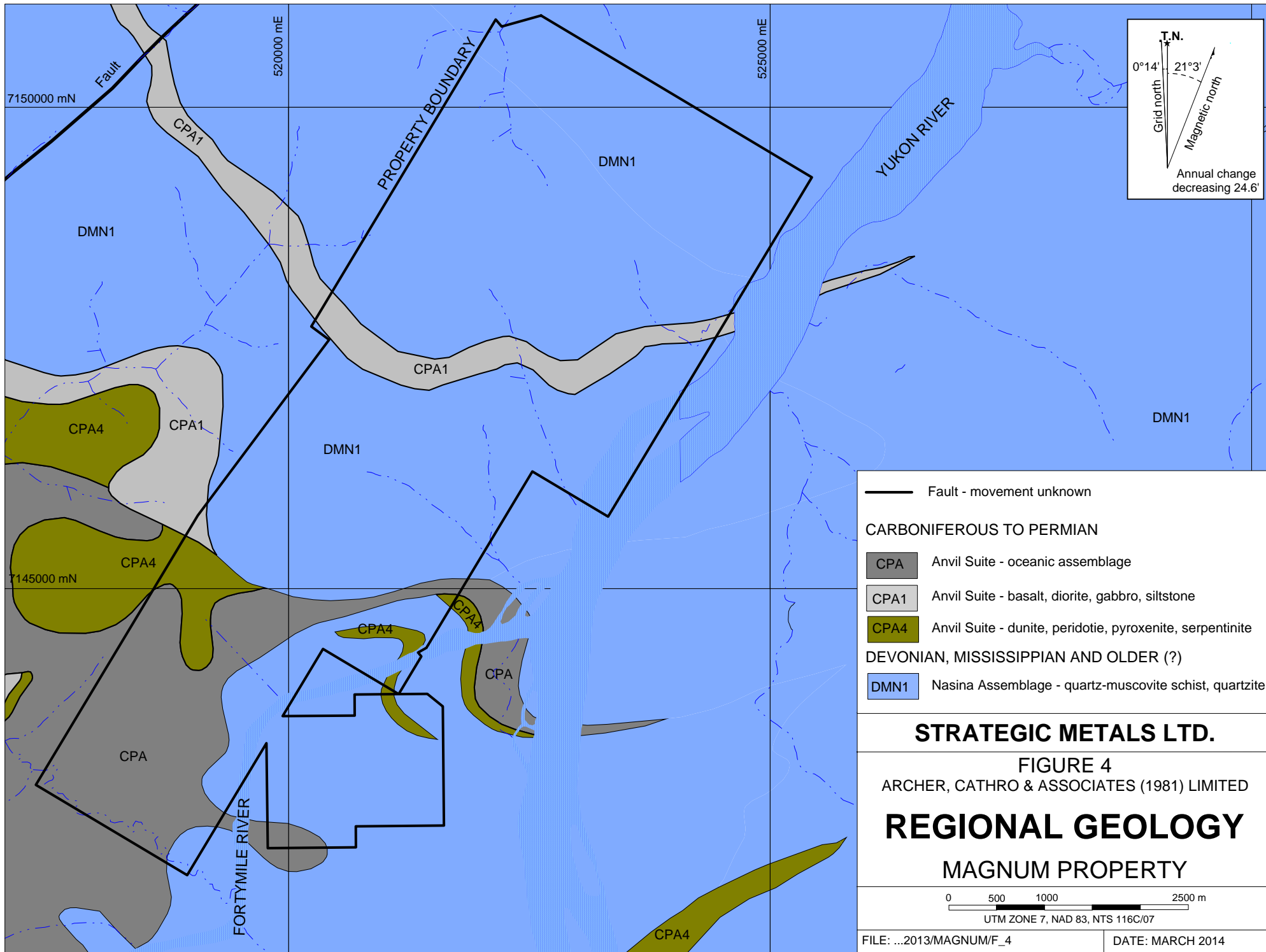
Table II – Regional Lithologies (After Gordey and Makepeace, 2003)

Unit	Period	Description
CPA	Carboniferous and Permian	Anvil Assemblage: A dominantly oceanic assemblage of mafic volcanics, ultramafics, chert, pelite and limestone.
		Anvil Assemblage (1): Variably altered and foliated augite-phyric basalt, diorite and gabbro with minor metachert, siliceous argillite, greywacke and limestone.
		Anvil Assemblage (4): Dunite, peridotite, gabbro, pyroxenite, harzburgite, hornblendite and serpentinite. Alteration assemblages include quartz-carbonate, green chromian muscovite (mariposite) and talc-carbonate.
DMN	Devonian, Mississippian and older (?)	Nasina Assemblage (1): Graphitic quartzite and muscovite quartz-rich schist. Dark grey to black, fine grained graphitic and non-graphitic quartzite and quartz-muscovite schist.

The Magnum property area is underlain by Devonian, Mississippian and older (?) Nasina Assemblage quartz-muscovite schist, which is overlain and intruded by Carboniferous to Permian Anvil Assemblage oceanic sedimentary and volcanic rocks and sills of mafic to ultramafic composition. Anvil Assemblage rocks are mapped as wavy, east-trending bands in the central part of the property and appear to cap the Nasina Assemblage in the southwestern part (YSG, 2013).

PROPERTY GEOLOGY

Strategic Metals conducted property-scale mapping in 2006 and 2013 within the northeastern and central parts of the property (Figure 5), which further subdivided the regional lithological assemblages (Table III). However, limited outcrop and thick vegetation cover complicate geological interpretation and projections of units between outcrops are tenuous.



- Fault - movement unknown
- CARBONIFEROUS TO PERMIAN**
- CPA Anvil Suite - oceanic assemblage
 - CPA1 Anvil Suite - basalt, diorite, gabbro, siltstone
 - CPA4 Anvil Suite - dunite, peridotite, pyroxenite, serpentinite
- DEVONIAN, MISSISSIPPIAN AND OLDER (?)**
- DMN1 Nasina Assemblage - quartz-muscovite schist, quartzite

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FIGURE 4
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

MAGNUM PROPERTY

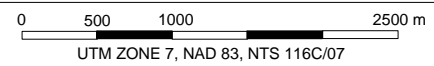


Table III – Property Lithologies

Regional Unit	Property Unit	Description
Uncertain	Andesitic porphyry dyke (?)	Green-grey groundmass and porphyritic plagioclase.
	Diorite (?) to gabbro	Fine grained biotite and other mafics (80%), feldspar (15%) and quartz (5%).
Anvil Assemblage (CPA)	Serpentinized peridotite	Orange weathering, mottled forest green, waxy, monoclinic to massive ophiolite sequence of ultramafics.
	Listwanite (?)	Mottled bright green, pink to orange and white, moderately foliated ankerite, quartz and fuchsite (?).
Nasina (?) Anvil (?) Assemblage	Calcareous sandstone	Fine grained, medium grey, equigranular, very calcareous grit.
	Siltstone	Medium brown siltstone interbedded with calcareous sandstone.
	Chert	Medium grey to pale green with light to medium orange interbeds and local cross-cutting quartz veins.
Nasina Assemblage (DMN)	Muscovite ± quartz schist	Pale white to tan, well foliated, and locally bleached with deep red-brown foliation bands hosting cubic pyrite and limonite. Hosts Chevron-type quartz veins up to 15 cm in width.
	Chlorite schist	Light to medium green to grey chlorite schist that hosts quartz veins and boudinaged lenses.
	Quartz-biotite ± chlorite schist	Black with white bands of quartz, well foliated with local chlorite alteration.
	Phyllite	Dark grey to gunmetal blue, weakly foliated phyllite.
	Argillite	Dark grey to black, graphitic argillite.

The Magnum property is primarily underlain by muscovite±quartz schist that is interlayered with quartz-biotite-chlorite schist and lesser chlorite schist and phyllite belonging to the Nasina Assemblage (DMN1). This package is in contact with sections containing younger Anvil Assemblage (CPA) rocks in the northern and southern parts of the property.

In the northeastern part of the property, a northwesterly-oriented strike-slip fault separates a predominantly metavolcanic package to the south from a mixed sequence of clastic metasedimentary and CPA rocks to the north. DMN1 sub-units include metavolcanic schists, phyllite and graphitic argillite, while CPA rocks comprise serpentinized peridotite that has altered to listwanite adjacent to the fault. Interbedded calcareous sandstone, siltstone and chert are of uncertain affinity.

The central part of the property hosts a sequence of interlayered DMN1 rocks that may represent subtle facies changes or isoclinal fold repeats, evidence for which is highlighted at outcrop-scale by quartz concentrates at fold noses. Within this package, there are thick sections of muscovite±quartz schist, quartz-biotite-chlorite schist, chlorite schist and phyllite. The Magnum Zone is hosted within a sequence of felsic and mafic schist, and it comprises a 5 to 20 m thick

section of iron formation that has been traced in outcrop and float for over 1600 m along strike (Wengzynowski and Nunez, 2006). This formation appears to be a continuous horizon situated about 70 m below the contact between the schists and a partially delineated diorite (?) body. Two additional iron formation horizons have been identified during mapping, both of which are poorly exposed, but occur stratigraphically below the Magnum Zone. The andesite porphyry dyke outcrops near a ridge crest in the centre of the property. The ages of the diorite (?) and porphyry dyke are uncertain.

Only cursory mapping has been done in the southern part of the property. The primary lithology observed is serpentinized peridotite; however, it is unclear at present time how this package relates to the peridotite observed in the northern part of the property.

MINERALIZATION

The Magnum property hosts two main styles of mineralization: stratabound iron formation horizons believed to represent VMS-type exhalites; and, discordant polymetallic veins, some of which are gold±silver enriched. Sample and analytical details for all exploration programs on the property are shown in Table IV.

Table IV – Sample Data

Year	No. of Samples	Analytical Technique	Elements Analysed
1979	1	unknown	Au, Ag, Cu, Pb, Zn
1988	102	ICP	29 elements, plus Au
2000	19	ME-ICP	32 elements plus Au
2006	4	ME-ICP41	34 elements, no Au
2013	63	ME-MS61 and Au-ICP21	48 elements, plus Au

The VMS style mineralization has been identified in three outcrop showings (MZ1, MZ2 and MZ3) and several float occurrences, which are collectively referred to as the Magnum Zone. In 2013, two more exhalite horizons were discovered in subcrop stratigraphically lower than the Magnum Zone. All three exhalite horizons are composed of semi-massive to massive magnetite with varying amounts of carbonate, barite, coarse cubic pyrite and limonite after pyrite. In 2001, a VMS-type float specimen consisting of muscovite-quartz schist with pyrite, arsenopyrite, chalcopyrite, sphalerite and galena disseminated on foliation planes, and limonite on weathering surfaces, was discovered in a creek bed downstream from the trace of the exhalite horizons. It graded 0.09 g/t gold, 554 ppm copper, 18,300 ppm lead (1.83%) and 7010 ppm zinc (Wengzynowski, 2001).

In 1988, Homestake discovered a number of narrow veins on the bank of the Forty Mile River, in the southwestern part of the property (Figure 2). These veins yielded significant lead (up to 4320 ppm), zinc (up to 2262 ppm), and arsenic (up to 47,631 ppm), but low gold values. No work was done in 2013 to re-locate or re-sample these veins. The relationship between these veins and the mineralization collected from the shaft dump 1000 m to the south is uncertain. A well mineralized specimens from the shaft dump returned 96 g/t silver, 3.4 g/t gold, 5.7% lead, 3.4% zinc and 0.3% copper.

In 2013, a total of 63 rock samples were collected for analyses. Rock and soil sample locations are shown on Figure 6, while significant results underlain by property-scale geology are shown on Figure 7. Certificates of Analysis and Rock Sample Descriptions appear in Appendices III and IV.

Each rock sample site was marked with flagging and its location was recorded using a hand-held GPS unit. Rock samples were sent to ALS Minerals in Whitehorse where they were dried and fine crushed to better than 70% passing 2 mm before a 250 g split was pulverized to better than 85% passing 75 microns. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analyzed for 48 elements using a four acid solution followed by inductively coupled plasma-atomic emission spectroscopy (ME-MS61). An additional 30 g charge from each fine fraction was further analyzed for gold by fire assay with inductively coupled plasma-atomic emission spectrometry finish (Au-ICP21).

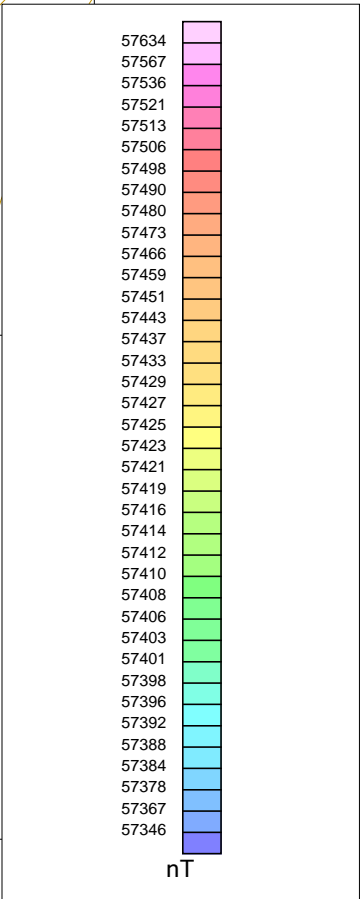
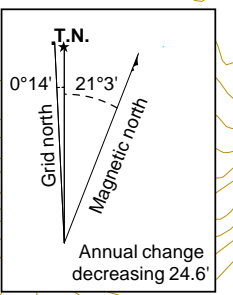
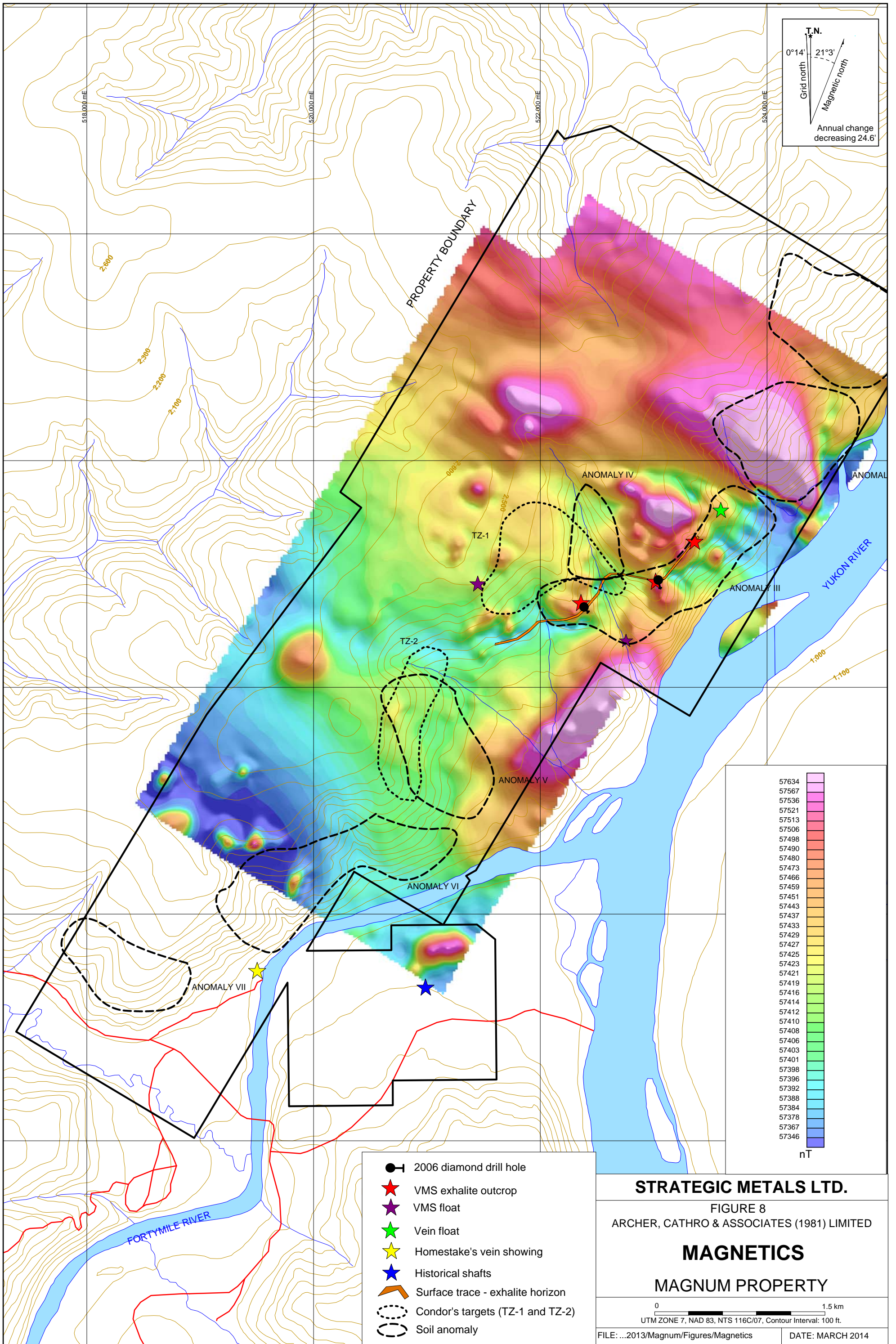
Rock and chip samples collected in 2013 in the immediate vicinity of the iron formation outcrops returned somewhat elevated values for gold (up to 0.18 g/t), copper (up to 216 ppm) and molybdenum (up to 32.3 ppm), but subdued values for other elements of interest. Rocks collected along-strike to the south of the exhalite horizons yielded moderately anomalous values for copper (up to 370 ppm) and zinc (up to 1335 ppm). Rock samples collected from soil in hand pits dug stratigraphically above, and uphill of, the Magnum Zone returned anomalous gold (0.415 g/t) and zinc (3000 ppm) values, but low values for other VMS indicator metals.

In 2013, gold-silver enriched vein talus was discovered south of the major northwesterly-trending strike-slip fault, in the northeastern part of the property. This vein material is characterized by white to grey chalcedonic quartz containing muscovite schist wallrock fragments and blebby to heavily disseminated galena, arsenopyrite and pyrite. A composite grab sample of quartz vein talus, which was collected from a 20 m diameter area immediately south of the fault yielded 1.34 g/t gold, 11.95 g/t silver, 1710 ppm arsenic and 3690 ppm lead. The relationships between the metamorphic country rocks, the quartz vein and the fault are unknown, and no attempt was made to trace this mineralization to source.

GEOPHYSICAL SURVEYS

In March 2006, ground magnetic and VLF geophysical surveys were completed over the Magnum Zone by Aurora Geosciences and in July 2006, helicopter-borne VTEM and magnetic surveys were conducted by Geotech. In early 2013, Condor completed a detailed interpretation of Geotech's geophysical data – see Burrell (2013) for a detailed report on the geophysical surveys. Figure 8 illustrates total magnetic intensity (magnetics) and Figure 9 shows late-time electromagnetic channel response (EM). Known mineralization and outlines of soil geochemical anomalies, which will be described in the following section, are also shown on Figures 8 and 9.

The magnetic data was re-processed using various techniques, one of which determines the depth extent of the magnetic anomaly. Eight large depth-extent magnetic highs were identified in addition to numerous limited depth-extent magnetic highs. The magnetic signature associated with the Magnum Zone is highly variable. Condor identified one deep and three shallow magnetic highs along and down-dip of the projected trace of the zone.

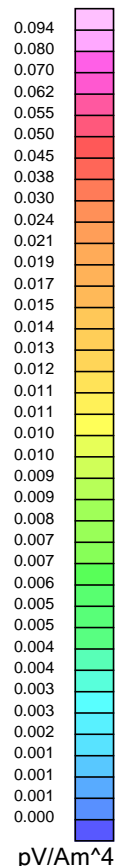
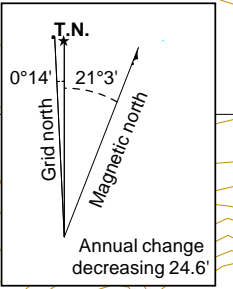
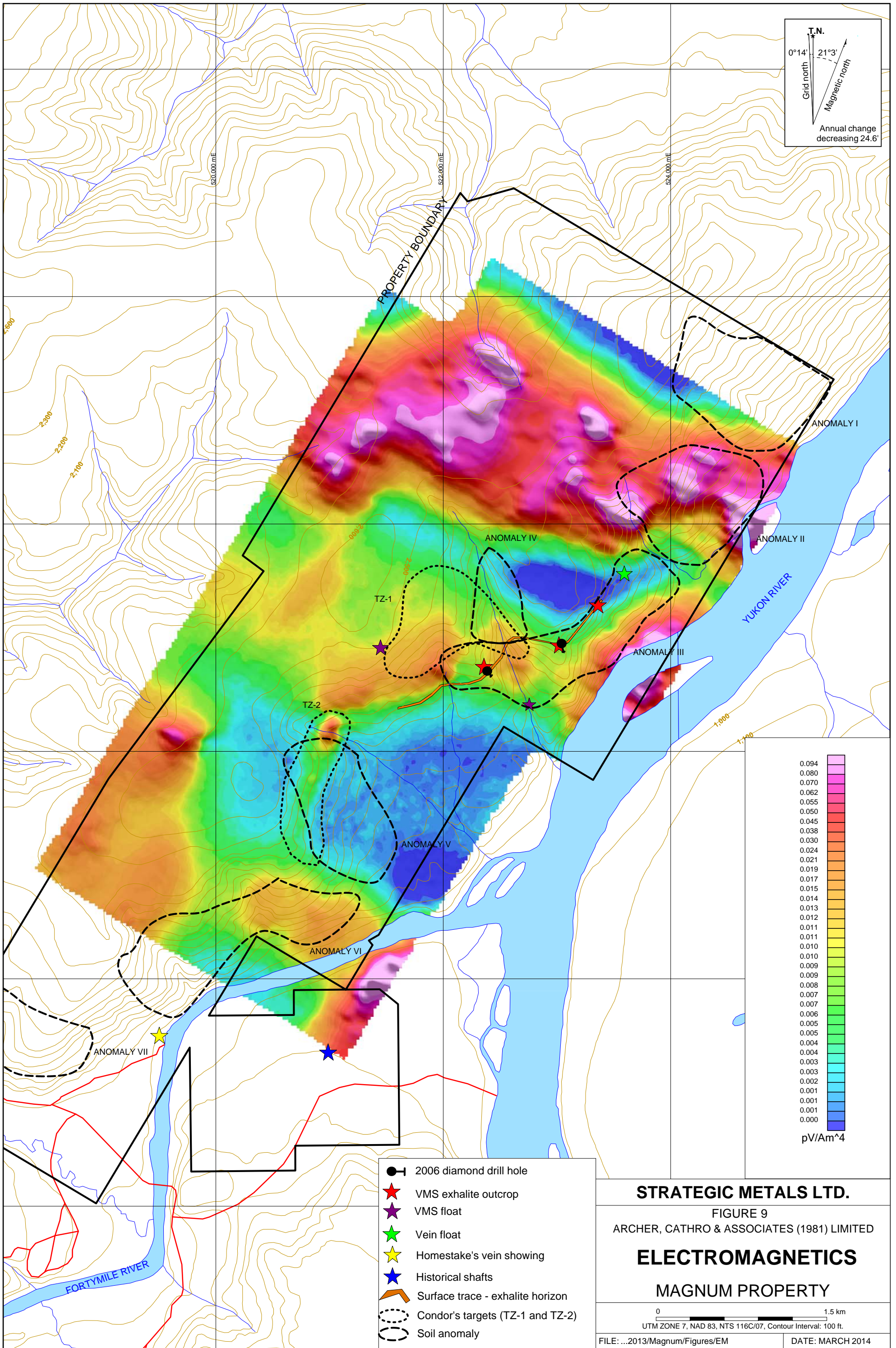


- 2006 diamond drill hole
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's vein showing
- ★ Historical shafts
- ▲ Surface trace - exhalite horizon
- Condor's targets (TZ-1 and TZ-2)
- Soil anomaly

STRATEGIC METALS LTD.
 FIGURE 8
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MAGNETICS
MAGNUM PROPERTY

0 1.5 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013/Magnum/Figures/Magnetics DATE: MARCH 2014



- 2006 diamond drill hole
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's vein showing
- ★ Historical shafts
- Surface trace - exhalite horizon
- Condor's targets (TZ-1 and TZ-2)
- Soil anomaly

STRATEGIC METALS LTD.
 FIGURE 9
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ELECTROMAGNETICS
 MAGNUM PROPERTY

0 1.5 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013/Magnum/Figures/EM DATE: MARCH 2014

Condor's analysis of the VTEM data identified numerous shallow, sub-horizontal conductors. The EM response in drill-tested parts of the Magnum Zone is low; however, elsewhere along projections of the zone the EM response is stronger. A 1200 by 3000 m area in the northern part of the property is underlain by an extremely conductive unit, which has limited the depth of investigation to 200 m. Property-scale mapping in 2013 identified graphite-rich argillite in this area that would explain the intense EM anomaly.

Condor identified two priority targets (TZ-1 and TZ-2) for follow-up work (Figures 8 and 9). TZ-1 is a flat-lying conductive zone located north of the Magnum Zone. It occurs at a depth of about 250 m below surface and is thought to be a sulphide-rich stratigraphic horizon located down-section of the Magnum Zone. Little property-scale mapping and prospecting have been completed in the area where TZ-1 projects to surface. TZ-2 comprises a separate, weaker conductive zone, which lies along the projected extension of the Magnum Zone, to the southwest of the 2006 drill holes. TZ-2 features a deep extending magnetic high and locally enhanced conductivity within a moderately conductive halo. Hand pitting along TZ-2 in 2013 identified muscovite schist with minor massive magnetite and argillite rock chips in soil. Rock samples collected in this area returned anomalous values for gold (up to 0.415 g/t) and zinc (up to 3000 ppm), but subdued values for other elements of interest.

SOIL AND SILT GEOCHEMISTRY

The eastern parts of the Magnum property are mostly covered by grid and contour soil sampling. Previous reports labelled anomalies based on results from individual programs. To avoid confusion, all old and new soil anomalies have been re-named, from north to south, as Anomalies I to VII. Figures 10 to 19 illustrate thematic results from all years for gold, arsenic, silver, copper, molybdenum, lead, zinc, barium, antimony and selenium. Table V displays the characteristics of each of the anomalous areas.

Table V – Soil Anomaly Characteristics

Anomaly	Length (m)	Width (m)	Peak Values									
			Au (ppb)	As	Ag	Cu	Mo	Pb	Zn	Ba	Sb	Se
I	1300	900	4.6	115	1.68	93.1	17.2	582	287	5310	7.93	9
II	1100	1000	50	257	5.96	182.5	91.8	100.6	1450	2610	38.1	83
III	2200	600	447	685	2.26	267	22.8	242	28.2	5940	49.5	17.4
IV	800	400	37	65.1	0.49	131.5	5.03	84.4	397	2890	11.95	3.1
V	1500	650	311	226	2.65	126.5	9.09	833	889	>1%	11.75	4
VI	2200	600	63	906	4.99	94	13.85	1570	1380	>1%	266	6
VII	1000	300	34.9	1640	3.42	171	37.4	587	673	5630	133.5	10

*Red = strong to very strong; orange = moderate; and, green = weak to background

In 2013, the soil samples were collected from 20 to 65 cm deep holes dug by hand-held augers; whereas the silt sample was collected by hand from an active creek bed. All samples were placed into individually pre-numbered Kraft paper bags. Soil sample sites are marked by 0.5 m wooden lath that were driven into the ground and affixed with aluminum tags showing sample

numbers. The silt sample site is marked with double flagging bearing the sample number. Sample locations were recorded using hand-held GPS units.

Soil and silt samples were sent to ALS Minerals in Whitehorse where they were dried and screened to -180 microns. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analyzed for 48 elements using a four acid digestion followed by inductively coupled plasma combined with atomic emission spectroscopy (ME-MS61). An additional 30 g charge from each fine fraction was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectrometry finish (Au-ICP21). Certificates of Analysis are provided in Appendix III.

Anomaly I, the northern-most anomaly, has received only cursory mapping and prospecting. Soil geochemical values are only moderately elevated and show sharp contrast with those in Anomaly II to the south. Banded green and orange chert form isolated near-vertical outcrops surrounded by thick vegetation. This anomaly is on the northern edge of the VTEM survey area and, although there are likely survey-edge distortions, this area appears to have a moderate magnetic response and a subdued EM signature.

Anomaly II is hosted by a package of interlayered Nasina and Anvil assemblage rocks. The northern part of the anomaly is underlain by graphite-rich argillite, while the southern part is a fault-bound package of peridotite and interbedded calcareous sandstone, siltstone and phyllite. A very strong magnetic high occurs within the southern part of this area and extends into unmapped and unsampled terrain to the west. A broad formational EM conductor extends from the Yukon River to the western edge of the geophysical survey. The area of very strong magnetic response is coincident with a zone of weak to moderate conductance. Anomaly II is separated by Anomaly III by the major northwesterly-oriented strike-slip fault, and is distinguished from it by strongly elevated selenium, antimony, molybdenum, copper and silver response.

Anomaly III is the largest and most laterally continuous of all soil anomalies and is the only anomaly that is coincidentally elevated in lead, copper and arsenic. It has the strongest gold signature of the anomalies, and the portion that abuts to the strike-slip fault is especially enriched in antimony. Anomaly III is underlain by interlayered Nasina Assemblage rocks including thick sections of muscovite±quartz schist, quartz-biotite-chlorite schist, chlorite schist and phyllite. Anomaly III encompasses the Magnum Zone and two other exhalite horizons. It is flanked to the west by a diorite body of unknown size and shape. Anomaly III hosts three distinct magnetic highs, which approximately correlate with the MZ1, MZ2 and MZ3 surface showings. Two of the three magnetic highs have been partially drill tested. The EM response varies throughout Anomaly III. The eastern part of the anomaly shows moderate to strong conductance, as does a circular area located between the 2006 diamond drill holes. The rest of the Anomaly III area has a subdued EM signature.

Anomaly IV lies immediately upslope from Anomaly III and is bisected by a southeasterly flowing creek. Based on the flat-lying orientation of the exhalite horizons, their surface traces should deflect with topography and extend into the area of this anomaly. The magnetic signature is relatively weak in the centre of the anomaly, but a moderate, contour-parallel magnetic high

flanks Anomaly IV, connecting the two drill-tested magnetic highs in Anomaly III. This magnetic high provides additional support for the theory of laterally continuous, flat-lying exhalite horizons. EM response in this area is weak to moderate and includes the northern edge of the circular EM feature described in Anomaly III above. Geochemical response is much weaker than Anomaly III – possibly because of more dilution from overlying, unmineralized units.

Anomaly V is heavily vegetated and lacks outcrops, and therefore, mapping has been largely inferred using rock chips taken from shallow hand pits. From this work, the area appears to be underlain by muscovite schist with narrow layers (?) of muscovite-biotite schist and phyllite. The magnetic signature is weak to moderate and EM response is subdued, with the exception of a north-northeast-trending band in the western part of the anomaly. Barium, copper and arsenic are the main elements that characterize this anomaly.

Anomaly VI contains a broad band of elevated arsenic, with sporadic gold support and small clusters of coincidentally high lead, antimony and silver values. The largest cluster of high values lies alongside the Forty Mile River near Homestake's vein showings. Anomaly VI appears to be underlain by a sequence of Nasina Assemblage rocks; however, thick vegetation and a lack of outcrops make it difficult to verify the geology. This anomaly straddles the southern boundary of the VTEM survey. It has low magnetic response, with the exception of a single isolated high. The EM signature shows moderate conductance in the eastern part of the anomaly and weak response elsewhere.

Anomaly VII has not been mapped or prospected, nor was it covered by the helicopter-borne geophysical survey. Sample coverage is limited to two contour lines, which have produced a coincident spot high for most metals of interest.

A number of silt samples have been collected from several creeks draining the Magnum property. Some of the highest gold values came from the creek that bisects Anomaly VI. Two of the best gold-in-silt results were from samples taken in the northwestern corner of the property and immediately west of the claims. Neither of the anomalous sites has been revisited, and no soil samples have been collected from the headwaters of either of the anomalous creeks.

2006 DIAMOND DRILLING

A total of 368.81 m of diamond drilling was completed in 2006. Drilling tested down-dip of MZ1 and MZ2. Data pertaining to the drill holes is listed in the History and Previous Work section above.

Hole MG-06-01 intersected an 8.31 m section of iron formation (Magnum Zone) within a 23.75 m exhalative horizon that is interbedded with felsic schist. Below the iron formation, stratigraphy comprises interbedded schists and phyllites. The iron formation consists of thinly laminated magnetite, carbonate, barite and limonite after pyrite, which correspond with the MZ2 surface showing. Immediately below the exhalative sequence, there is a 1.43 m thick interval of heavily sheared muscovite-limonite schist. A sample of this interval returned 7.3 g/t silver, 1460 ppm lead and 917 ppm zinc (Wengzynowski and Nunez, 2006).

Hole MG-06-02 intersected andesite followed by thinly bedded muscovite schist, minor cherty exhalite and phyllite. Hematite alteration overprints felsic schists and phyllites in this hole. No comparative iron formation or limonitic schists were encountered, and geochemical response in MG-06-02 was low. According to Condor, the weakest part of TZ-2 extends southeast under MG-06-02; however, the drill hole did not extend deep enough to intersect it.

No VMS mineralization was observed in either hole. Apart from the iron formation and limonitic schists, the only mineralization encountered in drill holes was pyrite, occurring as weakly disseminated flecks and occasional coarse cubes in quartz veinlets.

DEPOSIT MODEL

YTT hosts Kuroko, Besshi and Cyprus type VMS occurrences, with the best known and most advanced deposit being Yukon Zinc Corp.'s Wolverine Mine. Most of the known deposits in the Yukon are located in the Finlayson Lake District on the northeast side of the Tintina Fault, but a copper-gold-rich VMS deposit has recently been discovered on the Touleary property on the southeast side of the fault.

The Wolverine Mine is a Kuroko-type VMS deposit that contains precious metal rich mineralization, which is temporally and spatially related to periods of explosive sub-marine felsic volcanism. At the Wolverine Mine, massive sulphide lenses have been discovered 50 to 100 m beneath a laterally extensive iron formation. Recent studies have proven the magnetic horizon and sulphide mineralization are co-genetic (YGS, 2013).

Mineralization in Kuroko-type VMS deposits is usually associated with felsic volcanic rocks. It comprises semi-massive to massive lenses of chalcopyrite, galena, sphalerite, tetrahedrite, arsenopyrite and bornite, which often grade laterally or vertically into chert or sedimentary layers termed exhalites. The exhalites can comprise a combination of barite, gypsum, anhydrite or carbonate. Ore lenses are often stacked with 'black ore' containing pyrite, galena, sphalerite, pyrrhotite and magnetite underlain by 'yellow ore' consisting of chalcopyrite bearing stockworks and quartz veins cutting sericite-chlorite altered footwall rocks (Hoy, 1995).

The geochemical signature of a Kuroko-type VMS deposit typically shows increased copper in the footwall feeder zone, and higher zinc upward and outward from the core of the hydrothermal upwelling zones. In felsic-hosted deposits, barite, lead, arsenic and antimony are often enriched upward and outward from the zinc-rich zones. cursory research has also shown that antimony and selenium are often concentrated proximal to a vent (Peter et al., 2007).

DISCUSSION AND CONCLUSIONS

The Magnum property hosts two types of mineralization – VMS-related exhalite horizons and polymetallic veins. The possible relationship between the styles of mineralization is not known at present time.

Property-scale mapping in 2006 and 2013 identified three apparently stacked iron formations in the central part of the property and a chert in the northeastern part, which are believed to

represent a series of exhalite horizons, or an isoclinal fold repeated horizon. Vein mineralization could represent remobilization from earlier stratabound VMS mineralization.

Seven areas of anomalous multi-element soil geochemical response have been identified on the property. Each of these areas has a distinctive geochemical signature. Based on their selenium-copper-antimony signatures, and the abundance of chloritization in the underlying units, Anomaly II and the northern part of Anomaly III could mark a vent proximal feeder zone. Correspondingly, the arsenic, barium, lead, antimony and zinc enriched geochemical signatures of Anomalies V, VII and VII may represent a distal setting. Additional work is definitely warranted to determine the source of the metals in soils and the relationship between soil geochemistry, geology and geophysical anomalies.

Future work on the Magnum property should include the following:

- 1) additional soil geochemical sampling;
- 2) prospecting and hand pitting;
- 3) geological mapping;
- 4) air photo interpretation;
- 5) thin section analyses;
- 6) hand trenching; and,
- 7) diamond drilling.

Additional **geochemical sampling** should be completed northwest of Anomalies III, IV and VI and around Anomaly VII. Contour or grid soil sampling should also be completed in the west-central and northwestern parts of the property to try and identify the source of high gold-in-silt values.

Systematic **prospecting and hand pitting** should focus on areas with strongly anomalous multi-element soil geochemical response – particularly those with high lead and gold values because those metals are the least mobile in deeply weathered environments. It should also be done in the area of gold-silver enriched vein mineralization near the major strike-slip fault to identify a bedrock source and the extent of mineralization. Additionally, an attempt should be made to fully delineate the surface trace of known magnetite horizons and determine the probably source of the mineralized schist discovered in 2006 downstream from these horizons.

Geological mapping should be performed on the western half of the property where little or no work has been done.

An **air photo interpretation** would be useful for identifying areas where outcrops are likely to be formed and recessive linears that could mark faults or deeply weathered zones of mineralization.

Thin section analyses should be done on a number of specimens representing different lithologies on the property. Specifically, it should be done to: determine if the chlorite component of the chlorite schist is primary or secondary; characterize the composition of the diorite body; and, establish the nature of the chert (exhalative origin?).

In areas where mineralization is discovered as float or in soil from hand pits, it may be possible to dig **hand trenches** to expose the bedrock source.

Pending favourable results from the above mentioned activities, **diamond drilling** is ultimately recommended to test the prospective stratigraphy down-dip, especially where the magnetic and/or EM response is high.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



H. Burrell, B.Sc., P.Geo

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 2013 www.yukonzinc.com

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Burrell, geologist, with business addresses in Vancouver and Squamish, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B.Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I am a partner in Archer, Cathro & Associates (1981) Limited.
5. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.



H. Burrell, B.Sc., P.Geo

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
Magnum 1-144 Mineral Claims
September 10, 2013

Labour

H. Burrell – geologist – 8 days July at \$765/day	\$ 6,426.00
X. Montague – geologist – 15 days July at \$578/day	9,103.50
L. Flavelle – geologist – 15 days July at \$544/day	4,569.60
D. Libman – field assistant 1 day July at \$442/day	464.10
S. Wedge – field assistant – 15 days July at \$408/day	6,426.00
K. Gray – field assistant – 15 days July at \$357/day	<u>5,622.75</u>
	32,611.95

Expenses (incl. management)

Field room and board – 62 mandays at \$130/day	8,463.00
Fireweed Helicopters – 4.1 hours Bell 206B at \$1,050/hour plus fuel	4,776.92
ALS Chemex	39,457.21
JP Exploration Services	<u>892.50</u>
	53,589.63

Total \$86,201.58

Total 1032 soil and rock samples = \$76.15/sample

APPENDIX III
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Page: 1
 Finalized Date: 13-JUN-2013
 Account: MTT

CERTIFICATE WH13097166

Project: Magnum
 P.O. No.:

This report is for 3 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-JUN-2013.

The following have access to data associated with this certificate:

HEATHER B SARAH DRECHSLER	HEATHER BURRELL JOAN MARIACHER	SARAH D
------------------------------	-----------------------------------	---------

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
 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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-JUN-2013
 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13097166

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M355817		8.76	0.013	0.12	6.77	291	2570	2.15	0.19	6.01	0.87	81.2	21.6	54	8.82	26.2
M355818		4.21	0.035	0.23	6.34	306	2880	1.86	0.30	4.63	0.27	84.3	11.0	50	5.68	17.5
M355819		9.18	<0.001	0.20	6.87	18.6	920	1.32	0.10	5.15	0.24	65.2	28.8	67	3.88	31.8



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-JUN-2013
 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13097166

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	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
M355817		5.11	18.70	0.23	4.8	0.103	2.84	40.0	19.1	1.40	1420	2.07	0.46	23.4	28.8	1170
M355818		3.40	17.10	0.20	4.7	0.074	1.77	41.0	12.4	1.21	2010	0.91	1.98	21.7	21.4	710
M355819		6.70	20.0	0.23	4.3	0.099	0.35	30.6	32.1	2.18	982	1.40	2.52	24.9	38.1	1300

***** See Appendix Page for comments regarding this certificate *****



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 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 13-JUN-2013
 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS	WH13097166
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Sample Description	Method	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M355817		29.3	129.5	0.004	0.47	3.21	19.6	3	3.1	179.5	1.52	0.08	11.1	0.840	1.11	2.4
M355818		34.8	105.5	0.003	0.23	2.69	13.5	2	4.4	162.5	1.46	0.05	13.4	0.402	0.83	2.6
M355819		11.0	19.1	0.007	0.16	1.88	23.4	3	2.5	174.0	1.60	0.06	7.6	1.035	0.16	2.3

***** See Appendix Page for comments regarding this certificate *****



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 Finalized Date: 13-JUN-2013
 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13097166

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
Units		ppm	ppm	ppm	ppm	ppm
LOR		1	0.1	0.1	2	0.5
M355817		164	1.6	31.6	438	197.0
M355818		69	2.5	27.7	85	215
M355819		200	1.3	36.6	117	173.0

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Page: 1
 Finalized Date: 11-JUL-2013
 Account: MTT

CERTIFICATE WH13118227

Project: Magnum
 P.O. No.:
 This report is for 2 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28-JUN-2013.
 The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER
-----------------	-----------------	----------------

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
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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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13118227

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
K269131		1.38	0.068	0.41	2.70	174.5	3010	1.80	0.09	0.32	0.09	31.7	5.5	48	2.98	46.7
K269132		0.98	0.006	0.07	1.08	14.6	8570	0.09	0.05	0.09	0.03	6.52	2.3	23	2.32	17.6



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Project: Magnum

CERTIFICATE OF ANALYSIS WH13118227

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
K269131		5.68	10.45	0.07	1.0	0.022	0.59	12.8	21.5	0.16	1230	1.44	<0.01	4.1	25.0	320
K269132		10.75	6.13	<0.05	0.3	0.015	0.38	3.7	4.3	0.13	1040	1.55	<0.01	1.5	4.5	360

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Project: Magnum

CERTIFICATE OF ANALYSIS WH13118227

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	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 Sc ppm 0.1	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
K269131		9.0	40.6	<0.002	0.13	2.02	7.1	1	1.1	283	0.24	<0.05	3.4	0.110	1.67	0.8
K269132		3.1	28.3	<0.002	0.21	1.06	3.2	2	0.5	122.5	0.09	0.10	0.8	0.034	0.62	0.3



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 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13118227

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K269131		81	4.1	5.3	95	38.8
K269132		88	0.1	1.8	139	14.5



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 Finalized Date: 11-JUL-2013
 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13118227

CERTIFICATE COMMENTS

	ANALYTICAL COMMENTS										
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61										
	LABORATORY ADDRESSES										
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-31	PUL-QC	SPL-21	WEI-21		
CRU-31	CRU-QC	LOG-22		PUL-31							
PUL-QC	SPL-21	WEI-21									
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>	Au-ICP21	ME-MS61								
Au-ICP21	ME-MS61										



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Page: 1
 Finalized Date: 14-JUL-2013
 Account: MTT

CERTIFICATE WH13121183

Project: Magnum
 P.O. No.:
 This report is for 23 Rock samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2013.
 The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER
-----------------	-----------------	----------------

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH13121183

Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR															
N813431		1.57	0.001	0.02	0.59	2.4	1870	1.97	0.02	0.35	0.27	4.90	1.4	8	3.94	7.0
N813432		0.37	0.009	0.40	1.27	<5	1640	0.19	0.13	22.7	1.30	9.64	11.4	18	0.85	216
N813433		1.02	<0.001	0.04	0.61	3.0	4980	0.24	0.04	0.37	0.03	1.11	0.5	22	0.11	2.7
N813434		0.38	0.014	0.27	3.35	104.0	1370	1.03	0.10	0.05	1.46	24.1	56.9	89	4.71	41.4
N813435		0.29	0.415	0.67	1.00	1015	2520	0.56	3.54	0.06	1.70	15.90	39.3	43	2.43	8.2
N813436		0.47	0.007	0.14	2.65	19.3	760	0.93	0.14	0.02	0.10	24.3	5.4	58	5.73	28.9
N813437		0.06	0.015	0.07	6.51	36.6	1840	1.93	0.14	0.02	0.23	57.3	5.9	118	9.11	17.2
N813438		0.41	0.008	0.24	2.07	26.2	2670	0.76	0.05	0.02	0.05	23.7	1.6	34	2.97	22.8
N813439		0.30	0.009	0.10	1.97	48.9	3390	0.76	0.11	0.02	0.14	17.95	3.8	57	2.15	28.8
N813440		0.22	0.018	0.09	1.58	25.0	4610	0.68	0.18	0.01	0.02	13.70	1.1	31	1.71	17.3
N813441		0.17	0.075	0.34	3.44	114.5	8100	1.56	0.21	0.02	0.14	39.7	3.5	54	4.98	98.9
N813442		0.21	0.016	0.60	3.16	146.0	1180	1.53	0.07	0.15	1.41	33.6	7.3	90	0.72	153.5
N813443		0.15	0.056	0.58	4.17	55.6	1020	1.31	0.15	0.67	0.63	53.7	7.2	125	2.52	60.7
N813444		0.27	0.002	0.24	0.98	5.5	8330	0.78	0.08	9.54	1.98	14.90	5.0	20	2.01	37.3
N813445		0.71	0.001	0.04	0.43	1.6	130	0.15	0.02	4.04	0.18	9.35	1.2	16	0.24	7.7
N813446		0.20	0.003	0.33	2.38	2.8	570	0.60	0.87	4.56	0.19	15.30	7.2	26	1.12	40.2
N813447		1.11	0.002	0.07	3.99	18.9	490	1.16	0.04	9.73	0.40	58.8	19.1	149	1.36	19.8
N813448		0.19	0.001	0.03	4.91	11.2	480	0.42	0.05	0.24	0.12	24.7	23.9	57	1.11	54.5
N813449		0.54	0.001	0.01	1.16	12.2	20	0.27	0.03	0.12	0.06	1.26	101.0	1510	0.26	7.8
N813450		0.34	0.094	0.04	1.80	62.8	140	0.40	0.79	0.04	0.07	23.0	8.2	73	0.23	77.6
N813451		0.02	0.001	0.03	0.52	20.8	320	0.17	0.04	0.27	0.10	7.36	8.3	114	0.25	37.2
N813452		0.30	0.001	0.01	0.37	4.2	370	0.08	0.09	0.06	0.13	3.83	1.9	30	0.16	18.9
N813453		0.34	<0.001	0.09	5.14	11.0	660	1.03	0.13	1.96	0.15	24.3	24.4	186	0.89	59.9



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 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13121183

Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
N813431		15.65	2.54	0.09	0.2	0.008	0.06	1.9	2.3	0.04	2990	1.30	0.01	1.0	5.8	290
N813432		9.29	5.49	0.10	0.3	0.031	0.16	6.8	11.8	0.66	4540	32.2	0.10	1.2	63.4	500
N813433		0.67	1.57	0.05	0.1	<0.005	0.02	0.6	3.5	0.02	296	0.36	<0.01	0.5	2.9	30
N813434		26.2	8.73	0.15	0.8	0.037	0.58	12.8	12.1	0.13	1100	9.21	0.02	6.0	218	1160
N813435		20.7	3.40	0.11	0.4	0.022	0.35	20.3	12.8	0.06	4700	11.70	0.01	1.3	120.5	1670
N813436		1.94	7.68	0.09	1.0	0.024	1.00	15.6	11.0	0.14	387	0.74	0.04	3.4	23.9	240
N813437		2.96	16.25	0.17	2.3	0.041	2.19	32.8	25.1	0.28	735	0.72	0.06	8.4	25.0	220
N813438		1.70	7.09	0.11	1.0	0.021	0.64	9.5	15.0	0.10	102	1.93	0.02	3.4	11.9	330
N813439		1.93	5.37	0.11	0.8	0.015	0.63	13.0	9.8	0.09	301	1.28	0.01	2.9	21.2	970
N813440		0.99	4.91	0.09	0.6	0.019	0.67	6.3	4.1	0.07	52	1.54	<0.01	2.0	9.7	270
N813441		3.54	10.95	0.15	1.2	0.060	1.48	19.7	10.1	0.17	1210	1.83	0.02	4.3	34.3	360
N813442		21.7	8.22	0.15	0.9	0.053	0.13	26.7	53.2	0.10	1100	5.90	0.01	5.1	117.0	1310
N813443		3.62	11.05	0.13	1.6	0.030	1.29	26.6	17.1	0.38	452	5.93	0.23	15.1	36.2	2760
N813444		3.04	3.20	0.08	0.4	0.016	0.21	11.4	13.2	3.76	1760	0.74	<0.01	2.3	21.7	2180
N813445		1.36	1.04	0.09	0.1	0.023	0.09	3.1	4.1	1.39	580	0.22	0.01	0.6	4.3	80
N813446		2.28	5.16	0.11	0.4	0.026	0.51	7.0	18.6	1.06	1960	0.25	0.39	2.3	15.8	260
N813447		4.81	11.15	0.14	1.6	0.044	0.47	29.1	31.1	1.42	1400	0.25	0.02	22.7	56.9	1590
N813448		3.03	10.55	0.09	0.6	0.033	0.23	5.1	12.3	0.56	1440	0.41	2.17	4.0	43.2	380
N813449		5.15	1.07	0.08	0.1	0.005	0.01	0.6	1.5	22.1	522	0.06	0.01	0.4	2050	20
N813450		16.30	6.52	0.17	0.6	0.053	0.02	25.9	17.0	0.05	536	1.69	0.02	2.4	61.8	1660
N813451		2.32	1.27	0.06	0.2	<0.005	0.07	3.6	11.4	0.87	419	1.31	0.05	1.3	107.5	140
N813452		0.86	0.88	0.06	0.1	<0.005	0.06	1.9	3.0	0.04	309	0.69	0.04	0.5	7.2	160
N813453		4.94	13.05	0.10	1.5	0.050	0.46	11.8	33.5	2.53	1400	1.22	1.63	8.1	102.5	680



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 Account: MTT

Project: Magnum

CERTIFICATE OF ANALYSIS WH13121183

Sample Description	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
LOR		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
N813431		1.2	5.4	<0.002	0.28	0.50	1.6	<1	0.3	525	0.05	<0.05	0.5	0.023	0.48	0.3
N813432		10.4	2.9	0.016	0.29	2.16	4.6	12	0.4	327	0.08	0.05	0.9	0.057	0.35	6.6
N813433		0.9	0.8	<0.002	0.11	0.22	0.6	<1	0.2	28.9	<0.05	<0.05	0.3	0.009	0.07	0.2
N813434		109.5	30.1	<0.002	0.01	3.68	29.9	2	0.7	16.4	0.36	0.08	2.2	0.385	0.42	2.7
N813435		886	18.9	<0.002	0.01	24.4	2.8	3	2.2	93.6	0.07	0.35	2.2	0.039	1.90	2.8
N813436		10.2	63.1	<0.002	0.01	2.72	7.0	1	0.8	17.3	0.23	0.06	3.3	0.142	0.38	1.5
N813437		31.0	122.5	<0.002	<0.01	2.17	13.0	1	1.8	37.4	0.56	<0.05	8.7	0.344	0.73	2.5
N813438		15.0	42.1	<0.002	<0.01	8.44	6.2	1	0.8	19.0	0.22	<0.05	2.9	0.118	0.48	1.2
N813439		14.1	38.6	<0.002	0.01	1.84	4.7	1	0.6	102.0	0.20	0.06	2.4	0.118	0.28	1.4
N813440		3.0	39.8	<0.002	<0.01	1.10	4.1	1	0.6	12.0	0.13	0.10	2.0	0.071	0.26	0.6
N813441		12.7	89.6	<0.002	0.01	0.79	10.5	1	1.1	13.4	0.25	0.16	5.3	0.155	0.87	1.1
N813442		172.0	3.5	<0.002	0.23	25.0	11.4	3	0.9	141.5	0.31	0.50	4.4	0.152	2.35	2.0
N813443		22.1	63.4	<0.002	0.02	4.32	7.6	3	1.0	67.0	0.82	0.11	7.2	0.340	0.52	2.4
N813444		13.9	10.0	<0.002	0.11	1.27	2.7	2	0.5	465	0.14	0.10	1.4	0.039	0.24	0.5
N813445		6.4	4.5	<0.002	<0.01	0.38	5.5	1	<0.2	57.6	<0.05	<0.05	0.7	0.015	0.03	0.3
N813446		129.0	26.2	<0.002	0.01	0.87	4.1	1	0.5	218	0.15	0.05	2.8	0.068	0.15	0.4
N813447		5.8	27.2	<0.002	0.01	1.56	12.4	1	1.1	199.5	1.34	<0.05	5.1	0.739	0.15	1.7
N813448		5.3	9.7	<0.002	<0.01	0.82	13.1	1	0.8	30.6	0.28	<0.05	3.5	0.280	0.08	0.7
N813449		0.9	0.7	<0.002	<0.01	15.35	13.1	<1	<0.2	3.8	<0.05	<0.05	<0.2	0.036	<0.02	0.1
N813450		9.2	1.2	<0.002	0.04	38.2	11.2	4	0.2	17.1	0.15	0.68	2.0	0.067	0.04	1.3
N813451		6.0	3.3	<0.002	0.01	1.65	2.7	<1	0.4	17.4	0.08	<0.05	0.8	0.048	0.04	0.3
N813452		7.8	2.8	<0.002	<0.01	0.91	1.0	<1	0.2	22.0	<0.05	0.05	0.5	0.020	0.06	0.2
N813453		27.9	20.0	<0.002	0.02	0.85	20.4	2	0.9	79.4	0.50	0.07	2.7	0.496	0.23	0.8



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Project: Magnum

CERTIFICATE OF ANALYSIS WH13121183

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
N813431		65	4.2	3.6	130	6.8
N813432		243	0.3	21.9	148	14.7
N813433		3	0.3	1.2	10	2.1
N813434		183	0.9	38.5	3000	31.0
N813435		130	1.4	8.1	1400	16.9
N813436		85	0.7	6.7	87	36.6
N813437		149	1.1	12.0	97	79.3
N813438		69	0.9	3.9	69	37.6
N813439		58	1.0	7.5	47	29.9
N813440		72	0.6	2.0	21	22.0
N813441		155	1.0	4.3	119	46.7
N813442		338	0.4	16.0	1020	39.3
N813443		180	1.2	12.3	159	63.5
N813444		56	0.1	12.3	96	15.8
N813445		12	0.1	16.1	12	4.4
N813446		16	0.3	7.8	48	14.6
N813447		111	1.5	17.1	83	73.3
N813448		97	0.2	8.4	49	20.5
N813449		56	1.8	1.3	41	1.7
N813450		294	0.2	16.3	70	29.5
N813451		16	0.4	3.4	39	9.1
N813452		11	0.1	1.7	33	4.5
N813453		171	0.4	21.3	142	51.0

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS WH13121183

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
 ME-MS61

Applies to Method: Interference: Samples with Ca > 10% on ICP-MS As. ICP-AES As results reported (5 ppm DL)
 ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
 CRU-31 CRU-QC LOG-22 PUL-31
 PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
 Au-ICP21 ME-MS61



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Page: 1
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 Account: MTT

CERTIFICATE WH13115621

Project: Magnum
 P.O. No.:
 This report is for 38 Rock samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2013.
 The following have access to data associated with this certificate:
 HEATHER BURRELL SARAH DRECHSLER JOAN MARIACHER

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
 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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH13115621

Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR															
M400943		1.72	0.001	0.05	0.58	7.0	690	0.21	0.08	0.13	0.19	5.98	1.9	39	0.64	50.2
M400944		1.06	0.108	0.36	1.83	171.5	9820	0.30	0.08	0.28	0.05	7.51	3.3	37	0.46	18.3
M400945		0.39	0.006	0.03	0.51	11.3	2110	0.26	0.02	0.62	0.05	4.24	1.5	19	1.81	12.0
M400946		0.90	0.006	0.02	0.57	2.7	4880	0.05	0.05	0.56	0.02	3.05	1.4	39	0.26	8.3
M400947		1.53	0.002	0.07	0.21	109	6090	0.28	0.01	14.55	0.02	0.20	42.5	706	3.45	1.4
M400948		1.33	0.002	0.05	0.11	26	480	0.42	0.01	12.30	0.02	0.13	43.2	734	1.44	2.6
M400949		0.37	0.003	0.19	3.95	5.0	810	0.98	0.14	3.78	0.67	29.2	6.7	41	2.31	23.8
M400950		0.89	<0.001	0.07	1.19	<5	350	0.42	0.02	12.00	0.26	22.2	3.0	16	0.90	9.4
N813401		0.51	0.001	0.05	1.02	<5	150	0.34	0.03	19.75	0.53	9.16	1.7	5	0.37	8.0
N813402		0.75	0.001	0.03	0.96	<5	180	0.26	0.02	12.10	1.10	8.29	1.2	9	0.27	3.8
N813403		0.43	0.001	0.03	1.42	0.5	530	0.54	0.02	7.68	0.87	11.35	4.1	22	1.30	26.7
N813404		1.34	0.003	0.05	0.18	44.0	6410	0.32	0.01	8.35	0.03	0.52	38.3	322	3.46	1.7
N813405		1.83	0.001	0.16	0.30	28.4	480	0.38	0.02	7.37	0.08	1.48	67.4	1030	2.34	25.0
N813406		1.44	0.001	0.03	4.79	48	1910	0.88	0.01	13.30	0.10	5.74	24.0	240	2.43	47.4
N813407		2.90	0.006	3.90	0.19	7.9	340	<0.05	3.46	3.52	0.11	1.04	1.2	29	0.07	24.5
N813408		1.09	1.340	11.95	2.50	1710	2290	0.28	0.49	0.15	1.38	20.1	1.2	49	1.43	8.5
N813409		0.53	0.040	0.58	0.31	177.5	360	0.05	0.07	0.16	0.69	1.87	1.1	29	0.38	3.1
N813410		1.86	0.009	0.10	0.04	12.6	120	<0.05	0.01	0.26	0.02	1.07	0.6	36	0.10	2.7
N813411		1.60	0.001	0.02	0.09	3.6	140	<0.05	0.03	0.48	<0.02	2.11	0.7	27	0.14	3.2
N813412		1.15	0.053	0.02	1.47	9.0	3610	0.83	0.03	4.52	0.06	24.1	18.6	29	14.25	51.0
N813413		0.54	<0.001	0.03	0.23	0.7	420	0.10	0.05	1.39	0.05	1.76	1.3	29	0.44	12.8
N813414		0.59	0.005	0.24	1.71	15	2930	0.33	0.05	15.00	0.93	9.63	6.3	33	2.76	51.6
N813415		0.69	0.001	0.09	0.91	8	1240	0.39	0.16	16.50	5.17	5.91	6.6	55	1.81	36.0
N813416		1.65	0.008	0.04	0.28	<5	200	0.60	0.01	14.70	0.29	5.02	0.3	1	0.49	3.9
N813417		0.24	0.017	0.13	0.19	11	100	0.85	0.03	14.75	1.18	5.63	0.7	4	0.41	10.2
N813418		0.41	0.042	0.44	0.34	24.4	1230	0.33	0.05	0.28	0.05	1.70	0.7	12	0.47	15.3
N813419		0.96	0.032	0.12	0.52	26	380	0.22	0.02	11.70	0.08	2.45	0.4	6	0.89	9.2
N813420		0.86	0.048	0.24	0.48	25	340	0.35	0.04	13.25	0.29	4.93	1.0	7	0.66	21.9
N813421		0.95	0.002	0.01	0.52	14.7	220	1.92	0.02	0.80	0.04	1.80	0.4	9	1.10	5.9
N813422		0.87	0.002	0.15	6.71	5.1	2410	1.87	0.28	0.62	0.06	69.2	6.2	76	6.72	37.7
N813423		1.43	0.001	0.11	5.89	3.1	2190	0.87	0.07	0.09	0.05	63.4	1.8	19	1.26	5.2
N813424		1.22	0.002	0.98	0.99	11.2	500	0.46	0.08	0.02	0.02	9.69	0.3	35	0.99	20.8
N813425		1.94	0.002	0.14	4.34	5.1	980	0.78	0.12	0.97	0.41	54.6	1.4	23	1.72	5.9
N813426		1.31	0.001	0.15	2.63	11	330	0.84	0.04	12.25	0.17	21.0	12.4	138	1.71	17.5
N813427		1.57	0.002	0.20	3.85	5.1	560	0.84	0.13	0.30	0.50	29.1	8.7	42	2.15	33.3
N813428		1.52	<0.001	0.02	0.40	<5	220	0.40	0.02	10.25	0.45	23.7	0.9	9	0.15	11.3
N813429		0.56	0.001	0.11	6.61	4.5	990	1.77	0.10	0.97	1.53	58.2	8.6	52	4.48	24.7
N813430		0.26	0.002	0.04	1.09	<5	170	0.36	0.05	25.6	0.41	26.4	2.7	8	0.54	8.7



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CERTIFICATE OF ANALYSIS WH13115621

Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
M400943		0.95	1.54	0.09	0.3	0.013	0.22	3.2	4.0	0.08	314	0.41	0.01	0.9	13.6	190
M400944		3.39	4.17	0.08	0.4	0.011	0.09	3.4	20.5	0.05	607	0.49	0.01	1.1	14.4	330
M400945		14.90	2.12	0.11	0.1	0.012	0.02	2.1	1.8	0.07	2910	3.45	0.06	0.7	10.5	380
M400946		0.73	1.03	0.07	0.2	0.007	0.04	1.3	5.1	0.17	700	0.36	<0.01	0.6	7.1	140
M400947		3.29	1.33	0.08	<0.1	<0.005	0.02	<0.5	11.8	11.70	387	0.12	0.02	<0.1	789	20
M400948		3.62	0.36	0.08	<0.1	<0.005	0.01	<0.5	10.3	14.20	758	0.08	0.03	<0.1	877	10
M400949		2.13	8.87	0.12	1.3	0.039	0.93	15.2	21.6	1.15	506	3.67	0.80	5.1	27.5	370
M400950		1.10	2.97	0.12	0.7	0.014	0.49	12.7	3.9	2.66	602	1.14	0.02	2.5	12.1	1960
N813401		1.25	1.62	0.10	0.3	0.018	0.10	4.8	28.6	0.57	1700	1.67	0.01	1.0	9.4	240
N813402		1.67	1.26	0.10	0.3	0.021	0.07	3.2	22.3	1.65	1360	1.12	0.01	0.7	8.7	130
N813403		1.58	3.67	0.09	0.5	0.017	0.47	5.9	16.5	3.38	3380	0.80	0.08	1.3	19.0	340
N813404		3.28	0.50	0.08	<0.1	<0.005	0.01	<0.5	5.6	18.25	429	0.15	0.01	0.1	780	20
N813405		3.09	1.16	0.08	<0.1	<0.005	0.03	0.6	10.8	14.90	501	0.22	0.01	0.1	947	10
N813406		5.32	8.32	0.09	1.1	0.035	0.15	1.9	29.3	5.69	1440	0.26	0.05	1.6	135.0	80
N813407		2.11	0.21	0.09	<0.1	0.019	0.01	<0.5	2.0	1.20	730	0.19	<0.01	<0.1	7.9	280
N813408		2.23	6.31	0.11	0.8	0.095	0.39	8.1	6.1	0.45	85	1.11	0.16	2.7	10.3	180
N813409		0.80	0.82	0.07	0.1	0.006	0.08	0.8	3.1	0.10	422	0.28	0.02	0.3	7.8	30
N813410		0.58	0.18	0.07	<0.1	<0.005	0.01	<0.5	0.9	0.08	163	0.29	<0.01	0.1	3.3	180
N813411		0.61	0.25	0.07	<0.1	<0.005	0.02	0.8	1.4	0.15	317	0.23	<0.01	0.7	3.4	70
N813412		4.59	4.35	0.12	0.7	0.041	0.68	23.7	10.9	0.30	4730	1.06	0.08	3.1	34.7	2880
N813413		0.92	0.80	0.07	0.1	0.033	0.11	1.1	4.4	0.22	1080	0.37	<0.01	0.3	5.8	190
N813414		4.24	3.64	0.10	0.4	0.020	0.37	7.4	12.1	2.62	8500	0.69	0.02	1.1	22.0	620
N813415		4.04	1.97	0.09	0.2	0.009	0.19	5.5	13.1	3.74	2340	2.00	0.02	0.6	20.1	2590
N813416		18.45	1.81	0.11	0.1	0.008	0.03	3.0	3.9	1.30	8890	1.35	<0.01	0.2	1.8	320
N813417		18.75	1.09	0.11	0.1	0.008	0.01	3.3	1.2	0.83	7900	2.98	0.01	0.2	4.2	510
N813418		29.0	1.99	0.12	0.2	0.008	0.03	1.3	2.6	0.05	1340	17.50	0.02	0.4	3.7	50
N813419		18.65	2.60	0.10	0.2	0.008	0.11	1.2	4.9	0.10	1810	2.83	0.02	0.9	3.3	300
N813420		17.10	1.59	0.10	0.2	0.012	0.01	2.4	6.7	0.48	7450	6.94	<0.01	0.6	6.6	90
N813421		17.15	2.09	0.09	0.1	0.007	<0.01	<0.5	0.4	0.13	1290	1.46	0.34	0.9	2.0	260
N813422		3.54	20.6	0.12	3.3	0.061	0.38	35.4	10.9	1.04	630	0.42	4.45	18.8	22.5	590
N813423		0.78	9.46	0.21	4.8	0.051	6.02	32.3	1.6	0.05	63	0.68	0.84	10.5	3.1	150
N813424		1.24	3.46	0.11	0.6	0.016	0.49	5.0	3.4	0.08	59	0.98	0.03	1.8	3.4	140
N813425		1.19	8.67	0.16	2.7	0.039	0.93	28.1	5.7	0.18	300	1.73	2.49	8.1	4.0	90
N813426		2.79	5.40	0.12	1.3	0.026	0.55	11.0	27.0	3.13	1700	0.74	1.07	3.6	42.9	120
N813427		3.02	9.21	0.12	1.4	0.040	0.78	14.3	35.9	0.71	283	2.01	0.60	5.9	32.4	370
N813428		1.55	0.84	0.14	0.1	0.048	0.04	6.1	6.1	2.96	1690	0.39	0.15	0.3	9.4	110
N813429		3.58	16.70	0.17	2.3	0.063	1.54	29.0	50.1	0.78	376	3.68	0.62	10.8	36.9	510
N813430		1.73	2.71	0.11	0.4	0.022	0.18	14.1	14.9	0.55	1730	0.72	0.06	1.4	8.9	2480



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CERTIFICATE OF ANALYSIS WH13115621

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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
M400943		16.7	11.1	<0.002	0.01	0.56	1.1	1	0.2	11.8	0.05	<0.05	1.2	0.027	0.73	0.3
M400944		4.9	5.6	<0.002	0.25	2.12	2.4	1	0.3	65.4	0.07	<0.05	1.3	0.041	0.22	0.4
M400945		4.5	1.6	<0.002	0.10	0.56	1.6	1	<0.2	775	0.05	<0.05	0.5	0.025	0.27	0.5
M400946		3.8	2.6	<0.002	0.11	0.69	1.0	<1	0.2	230	<0.05	<0.05	0.4	0.019	0.03	0.2
M400947		0.9	2.1	<0.002	0.19	103.0	3.7	<1	<0.2	1270	<0.05	<0.05	<0.2	0.005	0.47	0.2
M400948		1.6	1.0	<0.002	0.05	62.4	3.0	1	<0.2	794	<0.05	<0.05	<0.2	<0.005	0.23	0.2
M400949		7.0	52.9	0.003	0.06	1.82	7.1	2	1.0	154.0	0.35	<0.05	4.7	0.165	0.58	1.3
M400950		1.1	22.8	0.014	0.10	0.75	2.6	1	0.4	510	0.18	<0.05	2.2	0.089	0.28	2.7
N813401		3.0	5.3	0.003	0.03	0.50	2.5	1	0.2	830	0.06	<0.05	1.2	0.031	0.08	0.8
N813402		2.0	3.8	<0.002	0.01	0.36	5.0	1	<0.2	541	0.05	<0.05	0.8	0.023	0.06	0.5
N813403		1.3	26.4	0.003	<0.01	0.45	4.3	1	0.4	266	0.08	<0.05	1.3	0.061	0.28	0.6
N813404		4.5	1.7	<0.002	0.15	91.0	2.4	<1	<0.2	579	<0.05	<0.05	<0.2	<0.005	0.04	0.6
N813405		0.8	3.0	<0.002	0.05	17.25	2.9	1	0.2	737	<0.05	<0.05	<0.2	0.007	0.03	0.4
N813406		0.7	8.5	<0.002	0.03	26.4	27.8	1	0.4	301	0.06	<0.05	<0.2	0.407	0.13	0.9
N813407		2030	0.5	<0.002	0.04	7.59	7.0	7	<0.2	274	<0.05	0.85	<0.2	<0.005	0.02	0.1
N813408		3690	22.3	<0.002	0.25	19.15	4.9	4	0.7	92.5	0.20	0.09	2.5	0.116	0.39	1.1
N813409		177.5	4.3	<0.002	0.03	3.82	0.8	1	0.2	13.7	<0.05	<0.05	0.3	0.012	0.09	0.1
N813410		29.6	0.6	<0.002	<0.01	1.24	0.3	<1	<0.2	13.9	<0.05	<0.05	<0.2	<0.005	<0.02	<0.1
N813411		3.6	1.1	<0.002	<0.01	1.36	0.7	<1	<0.2	17.2	<0.05	<0.05	0.2	0.029	0.02	<0.1
N813412		7.0	35.6	0.002	0.20	1.29	3.4	2	0.5	171.5	0.26	<0.05	3.1	0.053	0.96	1.2
N813413		5.8	5.0	<0.002	0.02	0.40	0.8	<1	0.2	45.4	<0.05	<0.05	0.3	0.010	0.17	0.2
N813414		133.5	17.9	<0.002	0.07	1.32	5.9	2	0.2	372	0.08	0.06	0.6	0.095	0.64	0.9
N813415		21.7	10.0	<0.002	0.12	0.73	5.2	2	0.2	378	<0.05	<0.05	0.3	0.060	0.32	2.4
N813416		85.0	2.2	<0.002	3.83	0.77	0.9	<1	<0.2	934	<0.05	<0.05	0.3	0.008	0.20	0.2
N813417		254	0.9	<0.002	8.75	1.44	1.1	1	<0.2	1100	<0.05	<0.05	0.6	0.011	0.43	0.3
N813418		912	2.9	<0.002	0.78	5.44	1.0	2	0.2	221	0.05	0.05	0.5	0.009	0.36	0.5
N813419		202	9.4	<0.002	>10.0	24.0	0.8	1	0.2	199.0	<0.05	<0.05	0.4	0.018	1.15	0.2
N813420		478	0.7	<0.002	>10.0	3.78	2.8	2	<0.2	549	0.05	<0.05	0.8	0.024	0.94	0.4
N813421		3.5	0.4	<0.002	1.20	0.37	1.2	<1	0.2	326	0.06	<0.05	0.4	0.030	0.05	0.2
N813422		21.0	9.8	<0.002	0.08	1.63	16.7	1	2.4	38.7	1.14	0.09	12.1	0.493	0.07	2.4
N813423		19.1	97.3	<0.002	0.11	0.91	5.4	1	1.6	54.1	0.67	<0.05	12.5	0.100	0.84	3.8
N813424		3.5	25.6	<0.002	0.01	2.27	2.5	1	0.4	4.3	0.11	0.06	1.4	0.053	0.17	0.6
N813425		12.4	49.9	<0.002	0.06	0.47	3.5	1	1.1	114.5	0.57	<0.05	9.9	0.049	0.26	1.9
N813426		5.8	28.6	<0.002	0.03	8.30	11.3	1	0.5	1160	0.22	<0.05	3.1	0.158	0.22	1.5
N813427		6.9	46.4	0.006	0.03	1.16	6.5	4	1.1	42.1	0.42	0.05	4.9	0.188	0.45	1.0
N813428		1.5	2.2	<0.002	<0.01	0.17	5.9	2	<0.2	618	<0.05	<0.05	0.8	0.010	0.03	0.8
N813429		2.9	92.1	0.002	0.01	0.93	11.7	2	2.0	71.2	0.73	<0.05	8.7	0.317	0.97	1.5
N813430		2.6	9.6	0.007	0.01	0.60	3.5	2	0.2	1620	0.10	<0.05	1.7	0.042	0.12	1.0



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
M400943		21	0.4	1.4	90	10.0
M400944		21	1.7	2.2	31	12.1
M400945		58	5.2	3.1	58	5.9
M400946		4	0.3	1.2	10	5.7
M400947		17	0.9	0.6	20	1.3
M400948		15	2.1	0.6	16	1.2
M400949		66	0.6	8.6	67	44.3
M400950		24	0.3	18.0	28	24.0
N813401		12	0.2	14.1	21	13.2
N813402		11	0.2	24.4	43	7.7
N813403		31	0.4	8.4	40	18.8
N813404		9	0.5	0.5	18	1.2
N813405		18	0.7	1.4	59	0.6
N813406		152	2.1	18.1	41	31.7
N813407		4	0.1	6.7	33	<0.5
N813408		53	3.4	2.7	334	27.1
N813409		8	0.5	0.8	72	3.5
N813410		1	0.3	2.7	4	0.5
N813411		2	0.4	1.7	4	0.8
N813412		86	0.5	17.7	74	30.1
N813413		6	0.1	2.4	21	4.5
N813414		53	0.3	17.7	300	13.3
N813415		117	0.5	24.1	693	9.7
N813416		75	0.2	5.5	162	3.6
N813417		63	0.2	5.2	544	4.9
N813418		76	0.3	1.2	279	6.2
N813419		83	0.4	2.1	125	9.0
N813420		26	0.2	8.0	141	8.2
N813421		55	2.7	1.4	43	4.3
N813422		132	1.6	24.0	94	114.0
N813423		3	0.8	15.3	16	174.0
N813424		24	0.6	1.3	8	23.4
N813425		9	0.7	13.9	47	73.7
N813426		80	0.3	13.8	40	46.4
N813427		50	0.8	6.2	113	46.3
N813428		6	0.1	34.3	21	5.5
N813429		88	1.1	8.4	144	76.8
N813430		11	0.2	21.9	63	20.5



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 Account: MTT

CERTIFICATE WH13121180

Project: Magnum
 P.O. No.:
 This report is for 195 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2013.
 The following have access to data associated with this certificate:
 HEATHER BURRELL JOAN MARIACHER

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	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
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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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS	WH13121180
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Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
Sample Description	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC89201	0.27	0.345	2.30	0.54	33	40	0.60	0.09	12.40	0.17	9.86	2.4	14	0.99	49.6
CC89202	0.23	0.196	1.29	0.99	15	210	0.35	0.16	10.85	<0.02	11.40	0.5	13	11.80	5.7
CC89206	0.19	0.006	0.13	7.27	12.3	2980	1.39	0.15	1.34	0.09	45.7	13.7	127	5.08	28.8
ZZ72001	0.15	0.002	0.87	5.52	13.0	1050	1.30	0.18	1.07	2.88	56.4	8.3	88	3.67	26.0
ZZ72002	0.12	0.003	<0.01	7.34	6.2	860	1.77	0.25	0.35	0.15	109.5	9.3	86	6.52	18.3
ZZ72003	0.19	0.002	0.05	7.19	7.2	1020	1.45	0.22	0.84	0.08	89.0	7.7	76	5.15	15.1
ZZ72004	0.31	0.015	0.17	5.14	18.5	780	1.22	0.17	1.06	0.12	51.0	52.8	371	3.64	33.2
ZZ72005	0.21	0.001	0.10	5.42	5.2	810	0.89	0.12	1.19	0.09	53.0	14.7	108	1.63	11.8
ZZ72006	0.25	0.002	0.07	5.36	9.3	880	1.22	0.16	0.97	0.10	61.5	24.5	221	2.57	16.1
ZZ72007	0.26	0.003	0.12	5.62	6.9	870	0.99	0.14	1.30	0.10	53.5	15.1	114	2.54	13.8
ZZ72008	0.28	0.005	0.20	5.75	22.7	890	1.33	0.19	1.18	0.15	56.0	33.7	306	3.22	33.9
ZZ72009	0.12	NSS	0.33	2.50	51.1	340	0.49	0.11	0.31	0.11	23.5	123.0	796	3.60	44.0
ZZ72010	0.25	0.014	0.13	5.52	8.3	750	0.85	0.14	1.23	0.18	50.1	19.1	197	2.48	12.6
ZZ72011	0.21	0.008	0.31	5.99	22.1	1300	1.36	0.19	1.30	0.33	51.6	24.4	277	9.53	40.4
ZZ72012	0.21	0.006	0.59	6.48	42.7	1500	1.60	0.23	1.46	0.27	80.0	18.6	179	5.38	54.8
ZZ72013	0.21	0.018	0.25	7.34	47.5	1210	1.92	0.29	0.96	0.25	98.0	25.7	373	6.94	39.4
ZZ72014	0.29	0.015	0.24	8.09	26.0	1270	2.13	0.35	0.91	0.12	112.0	20.9	162	7.15	36.9
ZZ72015	0.30	0.006	0.28	5.59	19.1	920	1.32	0.20	1.14	0.18	59.8	33.7	272	3.06	23.8
ZZ72016	0.27	0.009	0.12	4.62	138.0	760	1.02	0.18	1.54	0.11	49.2	55.4	557	3.19	22.1
ZZ72017	0.25	0.013	0.12	5.24	11.5	820	1.10	0.14	1.11	0.12	57.1	38.9	350	2.86	19.0
ZZ72018	0.20	0.005	0.08	5.70	12.9	950	1.24	0.16	1.23	0.09	65.1	20.2	149	2.35	23.2
ZZ72019	0.19	0.007	0.10	5.41	5.7	830	0.99	0.13	1.10	0.20	54.0	58.2	253	2.63	13.3
ZZ72020	0.37	0.002	0.24	5.91	12.6	1200	0.95	0.15	1.14	0.11	45.3	8.8	73	2.65	17.2
ZZ72021	0.30	0.004	0.29	6.38	12.5	1800	1.06	0.16	1.16	0.11	55.2	10.1	73	2.88	27.7
ZZ72022	0.15	0.014	2.24	6.73	25.7	2000	1.49	0.23	1.18	0.42	63.8	23.1	78	3.47	90.0
ZZ72023	0.29	0.002	0.14	6.20	13.3	1710	1.09	0.17	1.07	0.11	52.1	8.9	80	2.83	27.3
ZZ72024	0.20	0.006	1.15	7.45	16.8	1650	1.45	0.27	1.27	0.37	50.9	25.8	85	4.14	48.0
ZZ72025	0.34	0.002	0.20	6.56	13.0	1280	1.20	0.16	1.17	0.17	52.1	10.0	80	3.70	16.7
ZZ72026	0.21	0.004	0.19	7.55	10.1	1920	1.60	0.18	1.08	0.21	87.3	14.9	84	5.19	31.2
ZZ72027	0.33	0.005	0.17	6.57	11.5	1820	1.41	0.17	1.06	0.26	69.8	11.6	74	4.09	20.7
ZZ72028	0.28	0.005	0.13	6.37	10.8	2070	1.19	0.15	1.06	0.14	61.3	7.9	70	3.80	16.1
ZZ72029	0.28	0.004	0.39	6.59	13.7	2790	1.35	0.17	1.20	0.11	53.5	9.5	86	3.86	24.8
ZZ72030	0.39	0.006	0.23	6.22	17.5	3080	1.17	0.17	0.98	0.18	52.5	8.9	84	4.51	28.3
ZZ72031	0.25	0.005	0.30	6.44	21.2	3870	1.39	0.15	0.93	0.09	60.8	6.3	78	5.35	15.4
ZZ72032	0.25	0.008	0.33	6.17	32.4	4160	1.26	0.18	0.93	0.13	63.1	7.1	90	5.43	27.8
ZZ72033	0.19	0.004	0.47	6.59	19.9	3120	1.33	0.18	1.16	0.18	49.7	6.6	72	4.77	23.1
ZZ72034	0.28	0.007	0.17	5.87	20.5	3140	1.35	0.16	0.95	0.10	63.3	7.2	72	4.61	20.6
ZZ72035	0.37	0.006	0.13	6.44	16.7	4470	1.58	0.18	0.78	0.08	68.6	6.1	76	6.94	20.7
ZZ72036	0.24	0.004	0.08	6.28	16.1	3110	1.47	0.16	1.04	0.07	57.2	7.3	76	4.56	19.0
ZZ72037	0.28	0.008	0.09	6.38	17.6	1420	1.34	0.17	1.19	0.08	50.9	11.6	78	2.68	24.2



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Sample Description	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	
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	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
CC89201		14.25	1.77	0.08	0.4	0.008	0.12	4.0	3.2	0.05	1820	30.4	0.01	1.5	15.7	620
CC89202		3.43	5.19	0.07	0.7	<0.005	0.68	6.8	11.9	0.03	164	10.20	0.01	3.1	1.1	260
CC89206		3.64	16.65	0.14	2.2	0.053	1.36	24.0	23.6	0.86	671	0.91	1.73	10.3	38.5	570
ZZ72001		2.40	12.70	0.16	2.1	0.040	1.31	27.3	26.3	0.68	321	2.95	0.74	8.3	46.2	1100
ZZ72002		3.00	17.30	0.16	3.1	0.055	1.60	52.5	39.8	0.68	342	1.06	1.27	15.7	48.3	460
ZZ72003		2.82	16.95	0.12	2.4	0.054	1.48	43.7	33.2	0.72	328	1.55	1.43	15.0	35.6	250
ZZ72004		4.10	11.85	0.14	1.8	0.042	0.91	24.7	18.5	4.05	707	0.89	1.10	7.9	769	230
ZZ72005		2.58	11.70	0.09	1.7	0.037	1.06	24.3	18.3	0.91	497	0.90	1.53	10.0	102.0	180
ZZ72006		3.37	12.05	0.12	1.7	0.043	0.94	26.5	20.4	2.01	555	1.05	1.22	9.6	258	160
ZZ72007		2.56	12.55	0.09	1.8	0.038	1.19	26.2	19.8	1.18	454	0.75	1.60	10.6	130.0	190
ZZ72008		3.91	13.25	0.16	1.9	0.046	1.02	26.0	19.4	2.85	601	1.12	1.23	8.8	449	230
ZZ72009		4.34	5.47	0.09	0.7	0.020	0.30	11.2	11.2	15.85	1210	0.48	0.33	2.6	1770	210
ZZ72010		2.96	12.25	0.11	1.8	0.033	1.03	23.2	20.5	1.59	401	1.07	1.48	9.7	199.5	220
ZZ72011		3.52	14.20	0.14	1.9	0.049	1.15	25.8	27.6	2.89	513	0.58	0.93	8.1	304	670
ZZ72012		3.48	15.70	0.24	2.1	0.057	1.36	63.2	26.8	1.74	588	1.00	1.18	9.1	296	510
ZZ72013		4.22	18.45	0.21	2.7	0.062	1.72	53.4	32.3	1.80	484	1.72	1.07	11.5	322	680
ZZ72014		4.15	20.3	0.22	3.0	0.069	1.93	53.2	41.0	1.78	428	1.46	1.16	12.3	255	570
ZZ72015		3.71	12.95	0.17	1.9	0.041	1.19	33.1	20.8	2.55	589	0.96	1.27	8.4	498	440
ZZ72016		4.57	9.87	0.19	1.5	0.037	0.88	23.8	18.7	4.52	810	0.88	1.05	7.9	982	320
ZZ72017		3.99	11.45	0.17	1.7	0.042	1.04	24.2	19.6	2.86	682	1.00	1.23	9.3	541	330
ZZ72018		3.51	12.35	0.14	1.8	0.045	1.09	31.2	21.3	1.19	518	1.11	1.40	10.3	212	220
ZZ72019		3.56	12.05	0.16	1.9	0.036	1.08	24.6	19.8	2.58	927	0.99	1.39	9.0	452	380
ZZ72020		2.87	15.70	0.08	2.0	0.037	1.25	23.2	22.2	0.75	418	1.33	1.42	11.8	22.9	350
ZZ72021		2.99	17.40	0.10	2.1	0.043	1.33	28.5	23.8	0.71	546	1.51	1.41	12.0	27.9	310
ZZ72022		3.94	18.05	0.13	2.3	0.060	1.17	33.8	32.8	0.67	2170	2.26	1.12	9.7	53.1	910
ZZ72023		3.19	16.70	0.10	2.1	0.045	1.28	27.5	27.5	0.76	453	1.52	1.33	12.6	29.1	370
ZZ72024		4.70	22.1	0.10	2.5	0.061	1.22	25.9	51.0	0.79	2080	2.60	1.24	11.6	39.1	1140
ZZ72025		3.00	18.35	0.12	2.2	0.046	1.46	26.9	28.7	0.77	431	1.60	1.42	13.0	25.5	430
ZZ72026		3.53	21.0	0.16	2.7	0.058	1.90	45.4	33.6	0.73	758	1.91	1.29	23.3	34.8	610
ZZ72027		3.04	17.70	0.13	2.4	0.047	1.53	36.0	26.2	0.69	600	1.56	1.25	15.0	27.1	620
ZZ72028		2.75	17.25	0.13	2.2	0.043	1.47	31.9	25.4	0.68	351	1.43	1.31	13.2	23.7	400
ZZ72029		3.19	16.75	0.17	2.3	0.049	1.34	28.4	32.5	0.76	544	1.53	1.39	12.4	30.7	450
ZZ72030		3.11	18.15	0.15	2.2	0.046	1.38	27.3	29.8	0.69	640	1.63	1.17	12.0	30.7	540
ZZ72031		2.34	18.60	0.13	2.3	0.047	1.64	30.0	28.6	0.69	325	1.21	1.19	12.3	22.3	610
ZZ72032		2.97	17.30	0.16	2.5	0.048	1.49	33.2	27.0	0.67	506	2.16	1.11	12.0	29.2	500
ZZ72033		2.32	20.4	0.14	2.7	0.043	1.63	26.3	25.6	0.63	432	1.58	1.46	12.2	17.8	440
ZZ72034		2.43	16.10	0.16	2.4	0.047	1.45	32.3	24.5	0.63	335	1.77	1.15	12.2	20.4	380
ZZ72035		2.34	19.00	0.19	2.6	0.052	1.80	35.4	34.9	0.63	259	1.42	0.99	14.0	20.3	310
ZZ72036		2.62	17.65	0.16	2.2	0.047	1.49	29.1	26.0	0.72	304	1.47	1.32	13.0	21.2	280
ZZ72037		3.44	15.65	0.15	2.1	0.049	1.23	25.5	25.5	0.81	420	1.71	1.42	11.8	27.6	410



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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	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
CC89201		996	6.2	<0.002	9.17	18.15	1.3	1	0.3	702	0.09	0.07	0.9	0.054	2.19	1.0
CC89202		306	37.3	<0.002	9.53	30.3	0.7	4	0.5	669	0.23	0.15	2.0	0.078	6.61	0.7
CC89206		15.6	65.8	<0.002	0.03	1.10	19.6	2	1.4	191.5	0.75	<0.05	5.5	0.663	0.75	1.9
ZZ72001		15.2	59.7	<0.002	0.01	5.21	9.4	6	1.3	189.5	0.63	0.09	6.9	0.318	0.75	2.7
ZZ72002		14.7	103.0	<0.002	0.02	2.30	12.1	1	2.5	203	1.13	0.06	14.0	0.442	0.63	2.4
ZZ72003		15.9	78.5	<0.002	0.01	2.60	11.8	1	2.4	259	1.08	0.06	10.9	0.470	0.64	2.2
ZZ72004		11.1	48.1	<0.002	0.01	7.84	14.3	1	1.1	186.5	0.57	0.06	6.4	0.326	0.35	1.6
ZZ72005		11.3	38.0	<0.002	0.01	1.23	9.1	1	1.4	240	0.71	<0.05	6.7	0.369	0.37	1.7
ZZ72006		12.7	42.6	<0.002	0.01	2.46	12.4	1	1.5	185.0	0.72	0.05	8.4	0.339	0.44	1.9
ZZ72007		12.7	47.6	<0.002	0.01	3.32	9.5	1	1.4	260	0.77	<0.05	6.5	0.374	0.43	1.9
ZZ72008		13.0	51.6	<0.002	0.01	5.66	15.5	1	1.3	203	0.68	0.07	7.3	0.349	0.39	2.0
ZZ72009		7.3	17.2	<0.002	0.01	22.6	13.6	1	0.5	55.8	0.20	<0.05	3.0	0.115	0.15	0.9
ZZ72010		11.9	37.2	<0.002	0.01	3.43	9.2	1	1.3	246	0.69	<0.05	6.0	0.364	0.38	1.8
ZZ72011		12.3	63.3	<0.002	0.04	11.30	16.3	2	1.4	161.0	0.59	<0.05	6.9	0.353	0.45	1.6
ZZ72012		22.7	72.1	<0.002	0.02	4.68	14.7	2	2.0	222	0.69	0.05	8.4	0.343	0.49	2.3
ZZ72013		19.8	95.2	<0.002	0.01	6.44	16.3	2	2.0	167.0	0.87	0.08	11.5	0.405	0.65	2.3
ZZ72014		23.6	106.5	<0.002	0.02	4.06	15.3	2	2.2	198.0	0.92	0.08	12.2	0.412	0.70	2.2
ZZ72015		12.4	56.6	<0.002	0.01	3.84	12.6	1	1.2	214	0.62	0.06	7.0	0.330	0.41	1.7
ZZ72016		10.3	42.0	<0.002	0.01	10.35	13.0	1	1.1	198.0	0.56	<0.05	6.6	0.295	0.37	1.5
ZZ72017		11.6	49.3	<0.002	0.01	3.21	12.5	1	1.3	201	0.67	<0.05	7.5	0.333	0.39	1.7
ZZ72018		13.0	46.8	<0.002	0.01	1.95	12.9	1	1.4	232	0.75	0.05	9.2	0.371	0.39	2.1
ZZ72019		11.8	50.7	<0.002	0.02	2.30	11.2	1	1.3	237	0.66	<0.05	7.3	0.335	0.42	1.9
ZZ72020		13.3	60.5	<0.002	<0.01	0.94	11.3	2	1.8	217	0.83	<0.05	6.5	0.421	0.48	1.8
ZZ72021		15.1	67.6	<0.002	0.01	1.15	12.3	2	1.8	235	0.81	0.05	7.6	0.414	0.50	2.1
ZZ72022		24.7	58.1	<0.002	0.02	1.34	15.9	3	1.7	211	0.68	0.07	8.1	0.351	0.48	3.6
ZZ72023		18.0	67.5	<0.002	0.01	1.11	12.7	2	1.8	207	0.86	0.05	7.4	0.430	0.50	2.1
ZZ72024		23.4	65.5	<0.002	0.02	1.22	13.6	2	2.0	241	0.80	0.08	8.8	0.422	0.55	2.8
ZZ72025		16.0	78.3	<0.002	0.01	1.09	12.5	2	1.9	225	0.91	<0.05	7.7	0.435	0.57	1.9
ZZ72026		18.0	94.5	<0.002	0.01	1.45	14.6	2	2.2	205	1.60	0.05	11.4	0.448	0.69	3.1
ZZ72027		14.3	76.7	<0.002	0.01	1.29	12.4	2	1.9	203	1.00	<0.05	10.4	0.428	0.59	2.5
ZZ72028		11.8	71.9	<0.002	<0.01	1.18	11.5	2	1.9	206	0.92	<0.05	8.1	0.436	0.62	1.9
ZZ72029		12.8	67.2	<0.002	0.01	1.45	12.0	2	1.7	230	0.89	0.05	7.7	0.439	0.59	2.2
ZZ72030		12.1	78.3	<0.002	0.01	1.58	12.5	2	1.7	202	0.83	0.06	7.4	0.414	0.60	2.1
ZZ72031		24.0	91.9	<0.002	0.01	1.85	13.5	2	1.9	263	0.83	0.05	8.5	0.422	0.65	2.3
ZZ72032		31.2	86.1	<0.002	0.01	3.03	12.8	2	1.8	206	0.82	0.07	8.7	0.417	0.66	2.4
ZZ72033		24.5	84.3	<0.002	0.01	1.99	12.1	2	2.0	284	0.84	<0.05	7.3	0.405	0.73	2.2
ZZ72034		61.7	75.7	<0.002	0.01	2.36	12.0	2	2.0	210	0.86	0.05	9.5	0.420	0.61	2.4
ZZ72035		26.3	92.5	<0.002	<0.01	2.32	12.7	2	2.2	174.5	1.06	0.05	9.6	0.431	0.79	2.4
ZZ72036		19.0	81.5	<0.002	<0.01	1.79	12.5	2	1.8	217	0.87	0.05	8.2	0.420	0.62	2.2
ZZ72037		15.3	59.0	<0.002	0.01	1.33	11.8	2	1.6	228	0.80	0.05	8.6	0.405	0.50	2.2



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
CC89201		53	0.7	3.8	184	14.2
CC89202		119	2.4	1.4	11	27.1
CC89206		174	2.0	21.9	58	79.3
ZZ72001		138	1.0	16.2	132	73.6
ZZ72002		86	1.8	10.8	59	107.0
ZZ72003		99	1.7	11.7	57	85.8
ZZ72004		110	1.9	16.4	55	57.8
ZZ72005		87	1.1	11.1	48	61.3
ZZ72006		99	1.2	11.8	55	56.3
ZZ72007		89	1.2	12.1	44	63.9
ZZ72008		116	1.3	15.8	66	63.9
ZZ72009		61	1.7	11.8	32	22.9
ZZ72010		89	1.3	10.7	50	64.6
ZZ72011		111	1.3	15.3	74	66.8
ZZ72012		102	1.4	35.4	69	73.7
ZZ72013		117	1.3	25.8	79	92.9
ZZ72014		106	1.5	23.0	69	99.8
ZZ72015		95	1.3	16.2	60	61.7
ZZ72016		92	1.3	14.0	56	49.1
ZZ72017		98	1.2	11.3	62	59.7
ZZ72018		106	1.2	17.2	59	63.2
ZZ72019		84	1.3	11.8	72	64.6
ZZ72020		119	1.2	11.1	54	67.8
ZZ72021		118	1.3	12.1	63	77.3
ZZ72022		121	1.2	21.1	83	80.1
ZZ72023		127	1.4	12.9	64	73.7
ZZ72024		145	2.0	13.5	112	92.4
ZZ72025		121	1.2	11.4	59	73.7
ZZ72026		133	1.2	18.9	80	96.8
ZZ72027		120	1.3	14.3	66	82.8
ZZ72028		122	1.5	11.5	59	74.4
ZZ72029		133	2.9	13.1	73	77.9
ZZ72030		131	1.5	11.8	80	78.4
ZZ72031		130	1.6	12.5	51	82.3
ZZ72032		138	1.8	12.1	75	91.0
ZZ72033		120	1.6	11.4	53	98.1
ZZ72034		125	1.8	12.1	46	81.3
ZZ72035		136	1.7	12.1	45	87.4
ZZ72036		133	1.6	12.5	46	79.4
ZZ72037		128	1.3	12.8	54	71.2



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72038		0.22	0.007	0.16	5.77	15.0	2320	1.24	0.15	1.11	0.08	53.7	7.3	70	3.73	16.8
ZZ72039		0.25	0.008	0.07	5.57	16.7	3480	1.23	0.14	1.02	0.06	51.8	6.9	76	4.63	22.2
ZZ72040		0.27	0.008	0.06	5.77	16.3	2010	1.22	0.13	1.11	0.06	52.6	7.9	73	3.58	22.3
ZZ72041		0.20	0.004	0.10	5.92	14.3	1060	1.16	0.16	1.04	0.07	51.3	8.2	76	3.51	22.4
ZZ72042		0.34	0.004	0.07	6.07	10.7	1120	1.18	0.15	1.11	0.07	48.9	8.7	76	3.36	21.9
ZZ72043		0.22	0.004	0.06	6.17	9.0	1350	1.30	0.14	1.15	0.07	57.0	9.3	75	4.07	30.4
ZZ72044		0.31	0.004	0.04	6.42	11.9	1110	1.34	0.16	1.10	0.06	53.0	11.7	80	3.20	23.8
ZZ72045		0.36	0.005	0.07	6.77	14.2	2160	1.52	0.17	1.22	0.08	57.6	12.4	85	3.65	37.5
ZZ72046		0.26	0.005	0.05	6.21	14.3	1360	1.35	0.17	1.12	0.07	61.1	12.0	73	2.59	27.2
ZZ72047		0.23	0.007	0.15	6.44	19.6	1540	1.47	0.18	1.10	0.11	56.8	11.5	83	2.85	30.5
ZZ72048		0.13	0.004	0.86	6.41	14.6	2820	1.07	0.20	1.23	0.18	41.4	9.6	65	3.43	20.5
ZZ72049		0.18	0.003	0.36	6.73	17.4	4190	1.37	0.20	1.03	0.16	50.4	5.8	88	4.73	41.3
ZZ72050		0.22	0.006	0.21	7.87	50.2	3830	1.85	0.21	0.59	0.25	69.6	9.8	107	6.00	35.9
ZZ72051		0.23	0.002	0.28	8.19	7.9	1050	1.90	0.24	1.17	0.31	66.3	10.1	75	6.59	21.8
ZZ72052		0.26	0.003	0.08	7.61	9.7	1250	1.78	0.23	1.09	0.08	63.6	11.1	122	4.90	25.2
ZZ72053		0.20	0.001	0.07	5.49	6.3	840	1.00	0.12	1.23	0.10	36.2	27.1	275	3.73	28.2
ZZ72054		0.22	0.002	0.07	5.36	7.8	890	1.12	0.11	1.15	0.11	44.7	23.4	288	1.75	16.8
ZZ72055		0.24	0.043	0.19	6.05	9.1	1030	1.15	0.14	1.64	0.12	47.2	13.3	120	2.20	25.0
ZZ72056		0.16	0.003	0.11	5.56	7.1	940	1.00	0.12	1.20	0.06	53.4	13.1	108	1.86	15.2
ZZ72057		0.22	0.002	0.11	5.38	6.1	920	1.02	0.13	1.13	0.06	53.9	12.0	110	1.68	12.0
ZZ72058		0.15	0.008	0.08	5.01	10.6	800	0.84	0.12	1.16	0.08	47.8	33.5	330	2.05	11.6
ZZ72059		0.23	0.004	0.08	5.80	13.9	900	1.19	0.19	0.99	0.12	60.6	29.4	256	2.18	13.2
ZZ72060		0.21	0.001	0.08	5.46	6.2	760	0.91	0.13	1.28	0.13	42.8	12.7	148	2.04	10.1
ZZ72061		0.08	0.003	0.12	4.46	11.7	750	0.82	0.10	1.89	0.15	32.9	10.7	162	2.96	18.9
ZZ72062		0.17	0.015	0.35	5.51	553	1840	1.34	0.14	1.50	1.24	49.7	60.8	503	5.97	71.9
ZZ72063		0.21	0.004	0.14	7.51	19.6	1170	1.78	0.23	1.04	0.13	76.4	11.4	89	6.14	23.3
ZZ72064		0.27	0.008	0.22	6.83	17.1	1260	1.41	0.17	1.26	0.22	61.4	19.0	146	3.80	30.3
ZZ72065		0.21	0.004	0.23	7.50	11.0	1170	1.74	0.24	1.18	0.14	85.9	20.6	184	5.10	28.5
ZZ72066		0.26	0.014	0.19	5.36	12.8	850	1.24	0.14	1.31	0.09	61.2	36.0	271	2.46	22.1
ZZ72067		0.18	0.003	0.15	6.29	4.4	1010	0.99	0.14	1.60	0.15	48.6	18.0	138	1.77	13.1
ZZ72068		0.17	0.008	0.17	5.35	10.9	900	1.14	0.15	1.02	0.23	46.5	58.3	567	2.24	17.2
ZZ72069		0.17	0.004	0.18	6.39	10.2	1240	1.18	0.16	1.27	0.10	57.9	11.0	94	2.48	16.5
ZZ72070		0.24	0.004	0.23	6.54	12.4	1340	1.28	0.18	1.22	0.08	59.3	8.5	81	2.64	28.6
ZZ72071		0.24	0.002	0.10	6.34	11.5	1570	1.11	0.17	1.19	0.10	57.8	8.1	81	2.73	20.4
ZZ72072		0.30	0.005	0.19	6.57	12.4	1540	1.31	0.17	1.26	0.08	59.7	8.0	77	2.77	29.5
ZZ72073		0.18	0.002	0.35	6.01	6.9	1280	1.02	0.15	1.18	0.10	49.4	5.7	64	2.71	13.3
ZZ72074		0.23	0.002	0.32	6.37	9.1	1110	1.19	0.18	1.27	0.12	57.0	7.7	76	3.15	15.6
ZZ72075		0.28	0.004	0.15	6.89	9.5	1920	1.57	0.20	1.15	0.11	74.6	8.5	82	4.22	27.2
ZZ72076		0.27	0.004	0.12	7.51	10.3	2030	1.86	0.22	1.05	0.12	93.8	9.6	86	5.45	26.2
ZZ72077		0.28	0.004	0.18	7.33	11.2	2140	1.85	0.24	0.88	0.12	84.4	7.9	70	5.16	24.7



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72038		2.52	16.50	0.18	2.1	0.040	1.29	27.5	22.9	0.70	309	1.18	1.33	12.8	20.6	340
ZZ72039		2.44	15.35	0.18	2.2	0.038	1.30	26.9	22.7	0.63	316	1.04	1.23	11.5	21.4	330
ZZ72040		2.62	15.90	0.18	2.3	0.040	1.25	27.2	23.2	0.73	307	1.01	1.34	11.2	23.9	260
ZZ72041		3.04	15.15	0.17	2.1	0.040	1.19	27.0	23.5	0.69	371	1.25	1.34	11.6	26.3	230
ZZ72042		3.01	16.00	0.18	2.1	0.044	1.26	25.1	24.7	0.75	346	1.05	1.41	11.7	27.3	200
ZZ72043		2.93	16.20	0.18	2.3	0.043	1.29	28.9	26.7	0.76	377	1.02	1.41	12.8	27.6	220
ZZ72044		3.25	16.00	0.17	2.3	0.045	1.26	26.8	25.7	0.79	388	1.20	1.42	11.6	30.9	240
ZZ72045		3.54	17.80	0.18	2.5	0.052	1.35	29.7	25.6	0.86	463	1.69	1.43	12.2	34.9	220
ZZ72046		3.33	15.80	0.17	2.1	0.044	1.19	30.3	23.7	0.79	409	1.32	1.39	11.6	30.5	210
ZZ72047		3.30	17.50	0.18	2.2	0.048	1.30	29.6	24.4	0.81	401	1.49	1.41	12.5	30.2	330
ZZ72048		2.73	19.90	0.16	2.6	0.038	1.55	21.3	20.3	0.57	940	1.82	1.63	11.8	18.8	920
ZZ72049		2.28	21.0	0.15	2.7	0.045	1.68	26.3	22.3	0.61	394	1.37	1.35	14.4	22.7	400
ZZ72050		3.37	26.3	0.20	3.1	0.070	2.24	36.5	32.7	0.59	405	1.76	0.93	18.0	38.5	590
ZZ72051		3.36	23.8	0.22	2.8	0.061	1.70	34.8	56.6	0.64	434	4.08	1.46	13.9	34.0	770
ZZ72052		3.61	20.9	0.22	2.7	0.059	1.58	33.1	31.1	1.05	426	1.20	1.45	14.6	91.2	360
ZZ72053		3.10	14.10	0.20	1.9	0.029	1.13	18.2	23.1	3.36	654	0.89	1.51	9.4	459	250
ZZ72054		3.03	13.05	0.18	1.7	0.031	1.08	21.6	20.5	2.15	426	0.78	1.44	10.7	224	160
ZZ72055		3.00	15.45	0.20	2.0	0.038	1.20	25.5	21.1	1.29	462	0.88	1.62	10.1	163.5	390
ZZ72056		2.63	12.00	0.14	1.8	0.034	1.07	27.2	18.6	0.91	402	0.79	1.53	11.8	77.3	120
ZZ72057		2.57	11.75	0.14	1.8	0.038	1.06	27.4	19.3	0.89	453	0.84	1.48	11.2	71.2	150
ZZ72058		3.35	10.80	0.17	1.7	0.030	0.94	22.4	14.3	3.15	854	0.70	1.27	7.4	338	240
ZZ72059		3.98	12.95	0.17	1.7	0.047	0.93	25.3	19.4	2.91	524	1.14	1.16	8.0	330	190
ZZ72060		2.51	12.45	0.18	1.9	0.029	1.18	22.5	15.3	1.22	358	0.95	1.63	7.8	113.0	200
ZZ72061		1.98	9.85	0.19	1.6	0.024	0.96	18.2	13.4	1.83	490	0.68	1.25	5.9	222	600
ZZ72062		7.29	11.70	0.22	1.5	0.064	0.97	39.3	30.4	5.04	4650	1.35	0.52	5.2	891	720
ZZ72063		3.53	17.60	0.21	2.6	0.057	1.68	39.0	31.7	0.87	383	1.14	1.26	14.7	37.3	430
ZZ72064		3.54	15.25	0.20	2.1	0.051	1.45	35.1	29.8	1.30	546	1.17	1.34	11.5	124.0	430
ZZ72065		3.64	16.95	0.24	2.4	0.054	1.71	45.0	28.8	2.26	726	0.80	1.31	13.6	276	580
ZZ72066		3.88	11.45	0.19	1.8	0.036	1.06	29.9	16.7	2.57	556	0.89	1.31	8.4	556	330
ZZ72067		2.68	13.75	0.19	2.3	0.034	1.40	25.3	18.1	1.46	642	0.99	1.88	8.1	158.0	660
ZZ72068		4.87	11.20	0.14	1.6	0.034	1.00	21.1	16.7	4.57	855	0.79	1.11	7.0	660	790
ZZ72069		3.03	13.95	0.21	1.9	0.043	1.22	30.0	24.0	0.92	687	1.06	1.56	12.0	50.2	210
ZZ72070		3.28	14.65	0.20	2.1	0.041	1.25	31.5	26.1	0.80	414	1.24	1.48	11.9	24.2	340
ZZ72071		3.21	14.30	0.17	2.0	0.040	1.35	30.2	25.5	0.76	469	1.43	1.46	12.3	21.8	380
ZZ72072		3.10	15.50	0.22	2.3	0.043	1.34	33.6	27.6	0.76	434	1.29	1.49	12.1	23.0	340
ZZ72073		2.35	14.50	0.19	2.0	0.037	1.26	26.4	21.7	0.69	402	0.95	1.52	12.1	15.0	300
ZZ72074		2.83	15.15	0.21	2.1	0.043	1.31	30.1	25.6	0.75	403	1.44	1.53	12.0	16.9	440
ZZ72075		3.01	16.75	0.23	2.5	0.051	1.58	41.2	33.4	0.74	405	1.39	1.23	14.1	26.8	460
ZZ72076		3.47	18.40	0.24	2.8	0.055	1.95	50.2	35.4	0.72	441	1.74	1.19	19.0	30.2	650
ZZ72077		3.12	17.75	0.24	2.5	0.055	1.77	44.5	35.8	0.70	321	1.80	1.24	14.6	25.5	310



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Sample Description	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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOR	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72038		16.2	72.8	<0.002	<0.01	1.20	11.8	2	1.7	209	0.96	0.05	7.1	0.412	0.56	2.0
ZZ72039		14.1	73.2	<0.002	<0.01	1.62	11.7	2	1.5	203	0.77	<0.05	7.8	0.390	0.59	2.2
ZZ72040		13.0	67.9	<0.002	0.01	1.26	12.3	2	1.5	212	0.77	<0.05	7.5	0.399	0.48	2.0
ZZ72041		12.9	59.1	<0.002	<0.01	1.44	11.6	2	1.5	207	0.81	<0.05	7.5	0.422	0.52	2.3
ZZ72042		13.1	62.2	<0.002	<0.01	1.09	11.8	2	1.5	222	0.84	<0.05	7.2	0.408	0.50	2.0
ZZ72043		13.2	68.5	<0.002	0.01	1.18	13.0	2	1.6	220	0.90	<0.05	8.2	0.429	0.51	2.2
ZZ72044		14.0	61.8	<0.002	0.01	1.18	13.2	2	1.5	224	0.81	<0.05	8.8	0.401	0.51	2.4
ZZ72045		13.3	71.5	<0.002	0.01	1.55	16.6	2	1.7	232	0.84	0.05	8.4	0.448	0.54	2.3
ZZ72046		13.8	58.2	<0.002	0.01	1.25	13.6	2	1.6	218	0.83	<0.05	9.2	0.393	0.49	2.5
ZZ72047		14.2	66.6	<0.002	0.01	1.31	14.2	2	1.7	214	0.88	0.05	8.7	0.416	0.54	2.7
ZZ72048		14.6	80.9	<0.002	0.02	1.04	10.3	2	1.7	294	0.82	0.05	6.2	0.428	0.55	2.1
ZZ72049		14.2	91.5	<0.002	0.01	1.23	14.0	2	2.0	228	1.06	0.06	7.4	0.532	0.69	2.4
ZZ72050		15.3	134.0	<0.002	0.01	1.75	18.0	2	2.4	172.5	1.21	0.06	10.9	0.515	1.05	2.8
ZZ72051		16.4	97.5	<0.002	0.01	1.50	15.2	3	2.3	341	0.98	0.06	10.5	0.432	0.77	2.7
ZZ72052		15.8	92.1	<0.002	0.01	2.88	15.7	2	2.2	211	1.05	0.07	10.4	0.452	0.65	2.2
ZZ72053		10.6	52.3	<0.002	0.01	5.22	9.4	1	1.1	263	0.65	<0.05	5.0	0.337	0.36	1.5
ZZ72054		11.4	48.3	<0.002	0.01	2.22	11.0	1	1.3	220	0.74	<0.05	6.4	0.372	0.38	1.7
ZZ72055		12.0	48.8	<0.002	0.01	1.60	12.0	2	1.3	287	0.69	<0.05	7.1	0.375	0.42	1.8
ZZ72056		11.7	48.3	0.003	0.01	1.34	8.9	<1	1.4	246	0.82	<0.05	6.0	0.388	0.40	1.6
ZZ72057		10.6	47.8	0.003	0.01	1.12	8.7	<1	1.4	231	0.76	<0.05	6.0	0.387	0.40	1.6
ZZ72058		9.6	46.6	0.003	0.01	6.72	10.2	<1	1.1	223	0.58	<0.05	5.5	0.325	0.33	1.5
ZZ72059		12.2	50.2	0.003	0.01	3.15	14.0	<1	1.4	190.5	0.63	<0.05	6.5	0.334	0.39	1.8
ZZ72060		9.3	44.0	0.003	0.01	1.75	7.2	<1	1.3	290	0.65	<0.05	4.6	0.329	0.36	1.5
ZZ72061		7.6	39.8	0.003	0.08	6.17	6.7	<1	1.0	256	0.52	<0.05	3.8	0.254	0.28	1.3
ZZ72062		51.3	57.6	0.003	0.03	23.0	24.5	1	5.8	123.5	0.40	0.08	5.6	0.321	0.46	1.6
ZZ72063		17.4	93.0	0.004	0.01	2.00	14.2	<1	2.4	203	0.97	0.08	11.5	0.449	0.67	1.9
ZZ72064		14.3	74.3	0.003	0.01	1.95	14.0	<1	1.8	229	0.79	<0.05	6.9	0.416	0.51	1.9
ZZ72065		14.3	81.5	0.004	0.01	1.78	14.1	<1	2.0	237	0.91	0.07	8.3	0.430	0.59	1.8
ZZ72066		10.0	50.3	0.004	0.01	2.47	14.8	<1	1.3	230	0.70	<0.05	7.3	0.367	0.37	1.7
ZZ72067		10.2	48.8	0.004	0.01	1.13	7.7	<1	1.2	357	0.64	<0.05	5.4	0.347	0.34	1.7
ZZ72068		9.8	54.8	0.003	0.02	2.80	15.6	<1	1.2	190.5	0.56	0.05	5.4	0.307	0.38	1.5
ZZ72069		12.5	59.8	0.002	0.01	1.11	10.2	<1	1.6	250	0.82	0.05	6.6	0.435	0.48	1.8
ZZ72070		13.0	59.9	0.003	0.01	1.04	13.3	<1	1.6	249	0.79	0.05	7.0	0.423	0.46	2.2
ZZ72071		13.7	68.4	0.003	0.01	1.02	10.4	<1	1.6	238	0.83	0.05	6.5	0.434	0.48	1.8
ZZ72072		18.6	65.8	0.005	0.01	1.12	12.8	1	1.7	254	0.83	<0.05	7.2	0.413	0.48	2.1
ZZ72073		11.8	64.3	0.004	0.01	0.75	9.4	<1	1.6	252	0.79	0.05	5.0	0.406	0.47	1.6
ZZ72074		13.6	69.8	0.003	0.01	0.81	10.0	<1	1.8	256	0.82	<0.05	6.1	0.425	0.52	1.9
ZZ72075		13.3	82.2	0.003	0.01	1.42	14.4	1	2.0	221	0.94	<0.05	11.1	0.438	0.66	2.6
ZZ72076		15.1	95.7	0.005	0.01	1.65	14.8	1	2.3	208	1.27	<0.05	13.9	0.456	0.75	2.6
ZZ72077		26.8	88.5	0.004	0.01	1.93	13.1	1	2.4	194.0	0.99	0.05	14.1	0.380	0.76	2.4



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72038		118	1.4	12.4	42	71.2
ZZ72039		117	1.4	13.5	42	78.0
ZZ72040		115	1.2	13.5	47	77.8
ZZ72041		124	1.3	13.4	54	72.5
ZZ72042		119	1.3	12.7	52	71.8
ZZ72043		121	1.4	16.0	53	80.8
ZZ72044		120	1.3	14.1	57	75.7
ZZ72045		142	1.3	22.3	65	87.3
ZZ72046		123	1.3	16.5	56	75.0
ZZ72047		131	1.5	15.3	64	73.5
ZZ72048		112	1.4	10.0	67	98.3
ZZ72049		138	2.5	12.8	64	96.7
ZZ72050		163	2.8	14.6	84	109.0
ZZ72051		121	1.6	13.7	68	93.8
ZZ72052		117	1.3	17.2	62	87.8
ZZ72053		87	1.3	9.4	46	67.1
ZZ72054		99	1.1	10.6	51	55.5
ZZ72055		101	1.0	16.3	55	68.6
ZZ72056		100	1.2	11.4	50	60.2
ZZ72057		99	1.1	11.3	54	58.7
ZZ72058		90	1.9	11.5	53	57.6
ZZ72059		119	1.4	12.0	62	57.7
ZZ72060		82	1.3	10.2	50	70.7
ZZ72061		64	1.1	7.7	47	58.5
ZZ72062		133	3.0	30.1	148	59.5
ZZ72063		113	1.6	13.6	80	87.1
ZZ72064		126	1.2	16.9	81	69.8
ZZ72065		100	1.2	19.6	73	82.6
ZZ72066		109	1.5	14.2	62	59.6
ZZ72067		80	0.9	10.6	75	84.7
ZZ72068		106	1.3	11.4	128	53.0
ZZ72069		122	1.2	12.7	70	62.1
ZZ72070		123	1.2	15.2	65	72.3
ZZ72071		127	1.2	12.1	69	70.0
ZZ72072		122	1.2	15.0	69	76.8
ZZ72073		106	1.2	11.2	53	69.7
ZZ72074		118	1.2	12.2	60	72.9
ZZ72075		132	1.3	17.7	69	84.9
ZZ72076		137	1.6	16.1	85	95.6
ZZ72077		122	1.2	15.5	77	85.1



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CERTIFICATE OF ANALYSIS WH13121180

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
ZZ72078		0.24	0.007	0.10	6.69	7.7	1920	1.56	0.18	1.00	0.17	76.3	6.2	67	4.55	15.0
ZZ72079		0.25	0.006	0.24	6.35	10.8	3240	1.33	0.17	1.14	0.11	60.4	7.5	78	4.09	22.8
ZZ72080		0.20	0.004	0.37	6.41	12.4	2940	1.19	0.18	1.14	0.08	51.9	7.1	76	5.39	22.5
ZZ72081		0.25	0.013	0.22	6.30	10.3	1520	1.29	0.16	1.15	0.08	62.4	7.6	75	3.33	18.8
ZZ72082		0.23	0.009	0.10	7.29	10.5	2420	1.60	0.15	0.95	0.09	71.6	6.4	82	5.01	24.3
ZZ72083		0.17	0.007	0.59	6.90	26.2	2490	1.28	0.20	1.24	0.20	50.8	7.1	69	3.66	24.0
ZZ72084		0.27	0.006	0.26	6.29	12.9	1590	1.24	0.16	1.13	0.08	60.2	7.1	75	2.83	19.6
ZZ72085		0.28	0.008	0.32	6.20	19.4	5160	1.37	0.18	0.80	0.07	61.0	5.9	83	5.52	27.1
ZZ72086		0.24	0.016	0.08	5.96	19.3	5170	1.51	0.18	0.77	0.04	70.2	6.6	86	5.38	31.0
ZZ72087		0.21	0.004	0.27	6.19	8.4	2110	1.24	0.18	1.10	0.09	60.7	6.7	64	4.53	18.3
ZZ72088		0.28	0.005	0.08	5.88	12.7	3010	1.30	0.54	0.98	0.14	60.7	5.8	72	4.43	20.8
ZZ72089		0.27	0.006	0.13	6.02	11.3	1650	1.26	0.15	1.20	0.05	59.3	6.8	75	3.57	18.8
ZZ72090		0.22	0.006	0.07	6.35	13.5	1470	1.43	0.17	1.20	0.05	62.7	9.2	80	3.00	28.9
ZZ72091		0.24	0.004	0.06	6.36	10.2	1130	1.29	0.15	1.22	0.05	61.2	8.4	83	2.96	21.0
ZZ72092		0.22	0.005	0.07	6.61	11.5	1910	1.46	0.16	1.04	0.07	67.3	9.8	91	5.64	35.9
ZZ72093		0.22	0.004	0.07	7.19	11.8	1570	1.50	0.15	1.19	0.08	62.7	12.3	98	5.70	35.0
ZZ72094		0.21	0.011	0.10	6.75	13.3	1170	1.29	0.18	1.21	0.10	54.9	9.4	87	4.00	27.4
ZZ72095		0.27	0.004	0.10	6.78	13.0	1200	1.28	0.19	1.19	0.08	60.0	11.0	88	2.96	20.4
ZZ72096		0.23	0.008	0.09	6.42	13.9	1310	1.27	0.16	1.18	0.07	61.1	8.5	77	3.08	21.7
ZZ72097		0.24	0.011	0.09	6.55	17.3	1460	1.48	0.18	1.10	0.07	62.4	12.5	90	2.96	22.8
ZZ72098		0.26	0.007	0.12	6.67	19.1	2170	1.37	0.17	1.11	0.09	58.5	11.8	88	2.96	29.8
ZZ72099		0.18	0.003	0.41	7.55	24.0	2650	1.61	0.19	0.87	0.11	75.6	10.2	83	4.07	30.7
ZZ72100		0.20	0.009	0.20	8.29	55.5	3170	2.33	0.17	0.73	0.10	108.5	7.7	96	6.02	25.4
ZZ72101		0.25	0.005	0.52	9.07	46.8	3290	2.22	0.22	1.02	0.24	93.0	12.7	94	6.18	27.6
ZZ72102		0.27	0.004	0.25	8.28	27.5	1910	1.94	0.24	0.96	0.17	80.0	10.6	91	4.96	26.7
ZZ72103		0.14	0.002	0.78	7.79	7.0	1040	1.44	0.18	1.64	0.18	44.4	7.5	36	3.28	19.9
ZZ72104		0.17	0.008	0.22	9.78	72.6	1400	3.09	0.35	0.43	0.38	127.0	26.2	127	10.45	47.0
ZZ72105		0.17	0.007	0.50	9.81	26.8	3030	3.28	0.34	0.62	0.31	157.5	28.0	139	9.51	60.1
ZZ72106		0.19	0.005	0.45	8.65	25.0	2170	2.69	0.21	0.96	0.24	129.0	22.6	127	7.96	49.0
ZZ72107		0.21	0.005	0.48	9.21	24.5	2330	2.69	0.20	1.31	0.43	117.5	20.6	145	9.98	53.4
ZZ72108		0.10	0.006	0.38	7.44	29.6	1920	2.08	0.16	1.94	0.35	96.3	18.3	122	7.57	35.4
ZZ72109		0.18	0.010	0.33	5.51	29.4	4030	1.45	0.12	2.10	0.74	47.2	23.3	233	9.07	64.9
ZZ72110		0.13	0.013	0.46	6.85	22.8	3860	1.93	0.19	1.92	0.45	72.5	20.2	129	7.67	60.9
ZZ72111		0.11	0.007	1.38	6.19	12.9	1210	1.62	0.17	4.85	3.68	58.8	8.4	101	5.72	40.3
ZZ72112		0.18	0.003	0.25	9.76	15.1	1300	2.59	0.32	0.78	0.25	116.5	15.8	92	10.65	31.0
ZZ72113		0.17	0.005	0.15	11.20	16.3	1350	3.88	0.62	0.37	0.36	152.5	23.6	106	18.70	68.1
ZZ72114		0.20	0.004	0.10	11.55	37.7	1060	3.32	0.31	0.18	0.46	129.5	11.2	121	16.10	29.3
ZZ72115		0.25	0.006	0.15	6.98	16.5	1070	1.66	0.21	1.30	0.18	72.0	26.9	241	7.16	32.1
ZZ72116		0.22	0.004	0.06	5.69	5.2	790	0.99	0.11	1.30	0.10	49.9	10.3	86	1.64	9.7
ZZ72117		0.16	0.002	0.09	5.71	5.6	900	0.99	0.10	1.40	0.08	50.6	11.0	115	1.74	10.1



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CERTIFICATE OF ANALYSIS WH13121180

Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
ZZ72078		2.59	16.10	0.25	2.4	0.047	1.69	39.7	29.9	0.69	285	1.42	1.27	15.3	19.5	550
ZZ72079		2.88	15.50	0.20	2.2	0.049	1.33	32.3	29.0	0.70	423	1.25	1.34	12.5	22.8	330
ZZ72080		2.72	16.05	0.21	2.0	0.045	1.33	28.4	29.6	0.66	672	1.43	1.40	12.5	21.0	350
ZZ72081		2.82	14.80	0.22	2.2	0.040	1.34	33.3	25.8	0.71	535	1.07	1.40	12.9	19.9	370
ZZ72082		2.82	17.15	0.25	2.7	0.053	1.78	38.3	29.8	0.70	330	1.10	1.23	14.7	21.2	270
ZZ72083		2.83	17.55	0.23	2.5	0.038	1.57	27.1	27.0	0.65	567	1.72	1.61	11.4	18.2	450
ZZ72084		3.03	14.40	0.22	2.1	0.043	1.27	32.3	25.1	0.75	373	1.11	1.43	12.0	20.0	270
ZZ72085		2.66	15.70	0.25	2.6	0.049	1.46	32.6	29.9	0.62	341	1.66	1.08	11.8	18.7	340
ZZ72086		2.51	15.45	0.25	2.8	0.051	1.48	37.5	27.3	0.58	343	1.56	1.04	12.4	17.9	270
ZZ72087		2.53	16.05	0.27	2.5	0.043	1.42	32.2	25.8	0.60	327	1.75	1.33	12.2	14.4	350
ZZ72088		2.34	14.10	0.25	2.3	0.046	1.39	31.8	28.3	0.67	287	1.06	1.23	12.0	18.3	240
ZZ72089		2.69	14.15	0.22	2.1	0.041	1.27	32.0	24.2	0.75	331	1.02	1.43	12.0	19.0	280
ZZ72090		3.25	14.20	0.22	2.2	0.046	1.23	33.3	25.9	0.80	414	1.05	1.43	11.6	24.0	320
ZZ72091		3.09	14.30	0.20	2.3	0.043	1.26	32.3	25.8	0.83	371	1.09	1.49	12.1	22.0	260
ZZ72092		3.34	16.30	0.15	2.4	0.050	1.45	33.6	24.2	0.75	394	1.31	1.24	12.1	34.5	210
ZZ72093		3.84	17.60	0.15	2.6	0.058	1.43	31.3	29.3	0.95	398	1.44	1.37	13.5	35.1	230
ZZ72094		3.55	16.60	0.14	2.2	0.050	1.40	28.0	25.1	0.81	331	1.47	1.48	12.5	27.1	420
ZZ72095		3.66	16.30	0.15	2.2	0.050	1.28	30.0	25.2	0.83	375	1.53	1.49	13.3	26.6	240
ZZ72096		3.13	15.85	0.15	2.1	0.044	1.33	30.9	22.4	0.77	332	1.29	1.52	12.0	21.6	280
ZZ72097		3.77	15.40	0.15	2.2	0.051	1.29	31.2	24.1	0.81	450	1.51	1.42	12.1	28.2	260
ZZ72098		3.60	15.80	0.14	2.2	0.049	1.33	29.0	23.7	0.78	476	1.46	1.37	11.9	30.7	420
ZZ72099		3.17	20.9	0.16	2.6	0.056	1.76	38.4	24.8	0.59	754	1.56	1.24	14.8	25.9	340
ZZ72100		3.08	24.5	0.23	2.9	0.068	2.44	55.5	28.4	0.60	295	1.33	1.08	18.8	23.3	480
ZZ72101		4.08	26.5	0.20	3.3	0.064	2.65	47.1	32.9	0.61	523	1.62	1.48	16.6	34.5	580
ZZ72102		3.72	22.3	0.17	2.7	0.062	2.15	41.4	32.2	0.70	390	1.47	1.28	15.3	29.9	480
ZZ72103		2.42	20.5	0.17	3.3	0.036	2.01	23.4	26.0	0.56	414	1.59	2.25	10.3	13.4	550
ZZ72104		5.32	28.7	0.23	4.5	0.094	3.25	64.6	55.6	1.09	422	3.42	0.67	24.0	68.0	1480
ZZ72105		5.91	30.3	0.25	5.2	0.091	3.50	78.7	53.7	1.28	482	1.91	0.42	25.7	80.1	1560
ZZ72106		5.07	26.2	0.20	4.0	0.076	2.75	66.3	49.0	1.17	570	1.29	0.64	21.3	67.0	1280
ZZ72107		4.58	27.6	0.21	4.1	0.082	3.01	59.8	50.5	1.12	366	1.03	0.73	22.6	67.3	1240
ZZ72108		4.11	22.4	0.20	3.3	0.066	2.28	49.6	39.6	0.85	765	1.26	0.55	19.9	54.7	1140
ZZ72109		4.07	13.95	0.15	1.7	0.056	1.34	23.2	31.6	2.13	1340	1.08	0.75	9.5	185.0	890
ZZ72110		4.80	18.20	0.17	2.5	0.071	1.86	40.0	37.3	0.98	741	1.99	0.72	14.7	50.7	1340
ZZ72111		2.63	15.00	0.18	2.5	0.041	2.05	32.7	30.6	0.70	314	3.57	0.66	10.7	56.6	1670
ZZ72112		3.98	26.8	0.21	3.4	0.079	2.41	57.2	97.9	0.71	534	2.56	1.19	17.8	40.4	700
ZZ72113		5.54	32.1	0.27	5.2	0.119	2.80	71.8	75.4	1.03	580	3.84	1.03	22.9	54.4	1040
ZZ72114		3.84	31.3	0.25	3.9	0.096	2.62	61.9	79.7	0.52	186	1.92	1.19	19.9	39.8	440
ZZ72115		4.18	16.80	0.19	2.6	0.053	1.38	39.5	28.6	2.00	544	0.82	1.31	12.0	301	340
ZZ72116		2.55	13.00	0.15	1.8	0.032	1.12	25.3	20.5	0.88	322	1.07	1.66	11.5	59.0	180
ZZ72117		2.60	13.00	0.16	1.9	0.034	1.14	25.5	21.1	1.06	358	0.95	1.69	11.5	79.6	160



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72078		13.0	82.1	0.004	0.01	1.31	10.0	<1	2.1	204	0.99	<0.05	8.3	0.411	0.73	2.0
ZZ72079		12.5	70.6	0.004	0.01	1.30	11.5	<1	1.8	227	0.85	0.05	6.9	0.422	0.67	2.0
ZZ72080		12.1	82.6	0.003	0.01	1.06	11.9	<1	1.8	234	0.84	0.07	5.9	0.424	0.66	1.9
ZZ72081		12.1	65.9	0.004	0.01	1.04	10.6	<1	1.8	237	0.85	<0.05	7.3	0.416	0.54	2.0
ZZ72082		13.3	91.8	0.003	0.01	1.40	14.2	<1	2.2	210	0.98	<0.05	9.2	0.451	0.65	2.2
ZZ72083		30.0	70.1	0.004	0.01	1.93	9.9	<1	1.9	314	0.76	0.05	6.0	0.391	0.58	2.0
ZZ72084		16.6	64.7	0.003	0.01	1.28	10.3	<1	1.6	237	0.80	0.05	7.1	0.403	0.50	2.0
ZZ72085		30.7	87.2	0.002	0.02	2.39	11.8	<1	1.9	198.5	0.83	0.05	7.5	0.398	0.64	2.0
ZZ72086		23.4	86.4	0.003	0.01	2.46	13.7	2	1.8	182.0	0.83	0.07	8.2	0.403	0.70	2.1
ZZ72087		12.9	75.9	0.004	0.01	1.19	9.2	1	1.8	246	0.85	<0.05	6.8	0.401	0.61	2.0
ZZ72088		13.5	73.7	0.003	0.01	1.23	10.7	<1	1.7	198.0	0.81	<0.05	6.9	0.406	0.57	1.9
ZZ72089		11.8	70.2	0.003	0.01	1.03	11.8	<1	1.7	237	0.80	0.05	6.5	0.418	0.50	1.9
ZZ72090		13.6	61.4	0.002	0.02	1.08	14.1	1	1.6	236	0.75	0.05	7.2	0.400	0.49	2.4
ZZ72091		12.2	61.7	0.003	0.01	3.40	13.3	1	1.6	240	0.84	0.05	7.5	0.428	0.49	2.2
ZZ72092		14.2	81.0	<0.002	0.01	1.49	16.0	2	1.7	201	0.79	0.06	9.1	0.430	0.56	2.3
ZZ72093		14.8	76.2	0.002	0.01	1.34	14.7	1	1.8	211	0.81	0.05	8.8	0.494	0.57	2.1
ZZ72094		15.3	71.5	<0.002	0.01	1.27	12.6	1	1.7	250	0.78	<0.05	8.0	0.420	0.56	2.2
ZZ72095		16.2	58.0	<0.002	0.01	1.17	12.7	1	1.8	221	0.86	0.06	8.8	0.445	0.53	2.2
ZZ72096		15.2	64.5	<0.002	0.01	1.12	12.8	2	1.6	236	0.76	<0.05	8.4	0.412	0.52	2.4
ZZ72097		16.1	59.8	<0.002	0.01	1.39	13.4	1	1.7	219	0.80	0.05	10.1	0.398	0.52	2.5
ZZ72098		14.8	61.7	0.002	0.01	1.45	13.1	2	1.7	217	0.76	0.05	8.4	0.422	0.53	2.2
ZZ72099		17.2	85.5	<0.002	0.01	1.46	13.8	1	2.1	216	0.97	0.05	9.7	0.485	0.72	2.1
ZZ72100		17.5	131.5	0.002	0.01	1.67	16.2	1	2.4	212	1.17	<0.05	13.2	0.534	0.87	2.5
ZZ72101		22.0	126.0	0.002	0.01	1.99	15.6	1	2.3	278	1.05	<0.05	12.9	0.500	1.52	2.6
ZZ72102		17.9	109.0	<0.002	0.01	1.43	14.9	1	2.2	227	0.98	<0.05	10.9	0.466	0.95	2.3
ZZ72103		18.9	73.5	<0.002	0.01	0.78	8.0	1	1.4	444	0.67	<0.05	6.2	0.346	0.49	2.1
ZZ72104		23.8	174.5	<0.002	0.03	1.82	20.1	2	2.9	102.5	1.48	0.12	17.0	0.606	0.90	3.1
ZZ72105		24.4	170.0	0.002	0.02	2.86	22.3	2	3.0	97.8	1.60	0.09	19.7	0.660	0.94	3.5
ZZ72106		20.3	138.5	0.002	0.02	2.24	20.4	2	2.5	131.5	1.32	0.06	16.9	0.572	0.77	3.0
ZZ72107		18.9	150.0	<0.002	0.04	2.27	21.1	2	2.6	179.5	1.42	0.05	16.2	0.616	0.84	3.3
ZZ72108		15.4	122.0	<0.002	0.06	1.97	18.1	2	2.1	185.0	1.20	<0.05	13.2	0.526	0.72	3.1
ZZ72109		38.3	65.7	0.002	0.06	2.88	19.7	2	1.4	140.0	0.62	0.07	6.1	0.437	0.86	1.7
ZZ72110		31.9	89.9	0.002	0.06	2.67	21.3	2	1.8	124.5	0.90	0.08	9.2	0.585	0.92	2.2
ZZ72111		14.1	93.3	<0.002	0.03	5.07	12.4	6	1.7	224	0.69	0.11	9.2	0.341	1.02	2.7
ZZ72112		22.1	138.5	<0.002	0.02	3.12	18.7	1	3.0	296	1.20	0.09	15.5	0.508	1.04	2.6
ZZ72113		35.9	177.0	0.002	0.02	2.93	25.3	3	4.1	309	1.50	0.15	23.3	0.584	1.21	3.4
ZZ72114		30.7	177.0	<0.002	0.01	13.00	21.2	2	3.7	379	1.29	0.11	15.5	0.536	1.19	3.0
ZZ72115		16.8	74.3	0.002	0.01	6.00	16.2	1	1.9	227	0.77	0.06	10.4	0.423	0.54	2.0
ZZ72116		11.3	41.1	0.002	0.01	1.21	8.7	1	1.3	263	0.74	<0.05	6.3	0.394	0.42	1.6
ZZ72117		11.8	43.1	<0.002	0.01	1.42	9.4	1	1.4	275	0.73	<0.05	6.4	0.391	0.39	1.6



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72078		113	1.2	12.9	63	81.3
ZZ72079		129	1.4	13.6	62	78.9
ZZ72080		131	1.8	12.2	58	72.4
ZZ72081		118	1.2	14.2	61	73.8
ZZ72082		141	1.3	14.9	67	86.9
ZZ72083		120	1.5	11.4	73	99.1
ZZ72084		122	1.2	13.4	59	71.4
ZZ72085		136	1.8	11.7	49	89.3
ZZ72086		132	2.1	13.0	50	96.6
ZZ72087		113	1.2	11.4	51	89.6
ZZ72088		120	1.5	12.5	48	84.9
ZZ72089		121	1.3	14.9	48	70.4
ZZ72090		126	1.2	19.0	59	73.1
ZZ72091		125	1.2	15.9	59	74.8
ZZ72092		148	1.2	18.4	64	86.4
ZZ72093		158	1.3	13.7	74	97.5
ZZ72094		132	2.1	14.9	63	81.7
ZZ72095		140	1.3	13.4	55	75.6
ZZ72096		124	1.2	15.3	52	74.8
ZZ72097		130	1.2	14.7	61	74.6
ZZ72098		140	1.3	13.7	61	77.6
ZZ72099		135	1.7	12.1	62	94.9
ZZ72100		151	2.4	12.7	62	106.0
ZZ72101		138	1.9	12.7	106	125.5
ZZ72102		140	1.6	12.8	82	96.7
ZZ72103		73	0.8	9.7	66	127.5
ZZ72104		233	1.8	12.8	218	167.0
ZZ72105		218	1.7	15.8	215	188.0
ZZ72106		173	1.4	17.9	151	146.5
ZZ72107		193	1.5	17.4	150	147.0
ZZ72108		167	1.6	16.6	132	121.5
ZZ72109		165	1.0	16.1	171	61.3
ZZ72110		226	1.3	20.0	184	94.4
ZZ72111		159	1.0	27.8	179	91.6
ZZ72112		137	2.2	12.6	90	116.0
ZZ72113		160	2.6	19.3	97	181.0
ZZ72114		302	3.1	12.4	106	137.0
ZZ72115		122	1.7	21.1	67	91.5
ZZ72116		95	1.1	10.3	49	62.6
ZZ72117		94	1.0	10.8	47	65.1



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
ZZ72118		0.23	0.004	0.14	5.62	10.7	890	1.11	0.12	1.44	0.13	50.0	29.1	248	3.55	23.2
ZZ72119		0.21	0.007	0.16	5.99	15.5	980	1.39	0.18	1.64	0.16	54.3	21.2	180	3.71	37.7
ZZ72120		0.22	0.026	0.31	4.98	52.4	880	1.20	0.17	1.23	0.17	50.0	38.2	415	2.99	36.8
ZZ72121		0.14	0.015	0.30	5.53	42.0	1290	1.35	0.19	1.55	0.43	61.7	30.8	359	4.87	37.6
ZZ72122		0.30	0.009	0.28	6.87	22.8	1310	1.56	0.21	1.33	0.14	64.1	21.6	192	3.56	31.8
ZZ72123		0.16	0.014	0.36	6.19	47.8	2580	1.44	0.18	1.65	0.25	56.5	17.3	150	3.86	47.2
ZZ72124		0.29	0.016	0.25	6.52	139.5	2130	1.51	0.21	1.36	0.18	59.5	22.4	171	4.07	36.4
ZZ72125		0.16	0.015	0.27	8.62	164.5	5610	2.01	0.24	0.92	0.13	82.6	15.8	136	8.92	47.7
ZZ72126		0.25	0.008	0.20	6.21	153.0	2070	1.50	0.22	1.34	0.13	59.2	19.3	171	3.11	32.9
ZZ72127		0.24	0.015	0.52	6.01	116.0	1110	1.34	0.18	1.49	0.14	56.1	29.3	307	2.57	21.8
ZZ72128		0.21	0.002	0.19	5.78	20.3	1040	1.03	0.14	1.58	0.21	45.3	31.5	295	2.83	27.1
ZZ72129		0.23	0.005	0.08	6.49	21.4	1410	1.29	0.15	1.24	0.11	54.1	10.3	97	2.80	29.3
ZZ72130		0.27	0.007	0.17	6.70	31.8	2080	1.16	0.15	1.20	0.16	47.3	18.6	253	3.36	46.5
ZZ72131		0.23	0.007	0.15	6.32	23.9	2140	1.14	0.14	0.98	0.09	54.2	10.3	108	2.45	45.6
ZZ72132		0.21	0.007	0.22	6.98	42.6	2270	1.27	0.17	0.99	0.12	53.7	10.0	87	3.67	30.4
ZZ72133		0.18	0.006	0.28	6.45	11.4	2390	1.33	0.18	1.07	0.21	64.1	11.8	81	3.29	35.5
ZZ72134		0.19	0.002	0.26	6.81	13.0	1410	1.15	0.19	1.23	0.14	53.5	7.2	79	3.60	20.0
ZZ72135		0.15	0.002	0.18	6.60	14.7	1410	1.21	0.18	0.96	0.18	57.8	8.1	84	4.18	20.1
ZZ72136		0.28	0.005	0.30	8.26	19.4	2150	1.79	0.22	1.05	0.42	67.4	11.1	91	6.34	31.1
ZZ72137		0.25	0.004	0.14	7.28	14.2	2060	1.51	0.18	1.10	0.12	75.0	9.1	80	4.80	18.1
ZZ72138		0.17	0.002	0.36	7.06	18.6	2830	1.51	0.19	1.02	0.19	76.7	9.9	82	5.42	27.1
ZZ72139		0.17	0.003	0.24	6.58	16.1	2760	1.38	0.16	1.04	0.13	60.4	8.4	89	4.91	28.3
ZZ72140		0.18	0.003	0.21	6.60	17.4	3210	1.39	0.19	1.29	0.15	64.1	9.4	80	4.37	23.4
ZZ72141		0.16	0.010	0.47	6.57	22.3	5480	1.53	0.20	1.02	0.30	78.3	12.3	92	6.44	32.4
ZZ72142		0.18	0.002	0.38	7.04	16.1	4180	1.52	0.18	1.08	0.24	62.8	11.6	79	5.96	18.4
ZZ72143		0.28	0.004	0.46	6.82	21.0	3270	1.45	0.21	1.14	0.33	69.5	11.5	80	5.24	21.7
ZZ72144		0.22	0.003	0.43	6.49	22.4	2180	1.33	0.20	1.14	0.16	60.9	12.6	72	3.91	22.4
ZZ72145		0.21	0.011	0.29	6.79	22.9	2230	1.40	0.20	1.11	0.10	60.9	11.1	80	4.21	25.0
ZZ72146		0.28	0.379	0.26	6.80	17.5	1630	1.08	0.17	1.26	0.08	48.9	9.2	70	3.16	25.2
ZZ72147		0.17	0.008	0.28	6.37	14.7	1540	1.23	0.19	1.24	0.14	51.0	7.6	74	4.13	20.0
ZZ72148		0.18	0.005	0.28	6.40	21.6	1640	1.26	0.18	1.03	0.13	53.9	7.7	83	4.77	23.8
ZZ72149		0.22	0.003	0.24	6.25	13.5	1040	1.10	0.17	1.14	0.08	56.9	7.2	75	3.00	15.4
ZZ72150		0.24	0.005	0.18	6.47	13.6	1190	1.26	0.16	1.07	0.09	55.5	8.1	88	3.36	30.0
ZZ72151		0.24	0.003	0.29	8.18	33.7	2700	1.92	0.23	0.76	0.15	84.4	14.5	98	4.95	24.5
ZZ72152		0.21	0.004	0.21	8.44	63.6	2450	1.99	0.23	0.74	0.16	94.9	10.4	100	5.79	24.4
ZZ72153		0.26	0.007	0.36	9.64	76.9	3010	2.40	0.24	0.65	0.19	98.8	13.8	112	7.25	25.9
ZZ72154		0.27	0.002	0.14	9.55	17.4	1390	2.72	0.25	0.69	0.09	108.5	15.1	95	6.39	27.0
ZZ72155		0.30	0.002	0.23	11.40	27.4	1960	3.47	0.27	0.54	0.16	121.0	18.4	123	9.90	35.8
ZZ72156		0.16	0.004	0.29	10.45	23.9	1780	2.70	0.28	0.59	0.11	116.5	15.8	117	7.56	33.2
ZZ72157		0.19	0.004	0.40	9.30	20.3	1950	2.67	0.27	0.90	0.17	136.5	20.7	126	7.61	44.5



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72118		3.34	12.85	0.16	1.9	0.040	1.17	25.3	20.8	3.01	516	0.44	1.36	10.3	355	490
ZZ72119		3.68	13.20	0.08	2.2	0.049	1.15	29.2	22.2	2.01	566	0.78	1.39	9.6	246	330
ZZ72120		4.15	11.10	0.07	1.8	0.048	0.82	30.2	19.3	4.64	1160	0.63	1.26	7.9	460	360
ZZ72121		3.71	12.65	0.10	2.0	0.052	1.14	34.5	28.1	2.57	713	0.96	0.86	9.3	330	610
ZZ72122		3.59	15.55	0.08	2.3	0.049	1.34	36.2	30.7	1.98	552	0.93	1.35	10.0	253	310
ZZ72123		3.32	14.20	0.08	2.3	0.051	1.41	29.7	21.2	1.37	833	1.44	1.25	9.3	190.5	590
ZZ72124		3.83	15.10	0.06	2.4	0.055	1.32	30.2	24.9	1.22	951	1.53	1.26	10.1	168.0	220
ZZ72125		4.14	21.4	0.10	3.2	0.100	2.17	42.2	39.5	0.81	757	2.29	0.74	15.0	99.5	370
ZZ72126		3.80	14.25	0.07	2.2	0.051	1.18	29.8	22.6	1.13	619	1.39	1.23	9.8	151.5	230
ZZ72127		3.83	13.15	0.06	1.8	0.046	1.02	28.3	20.7	0.80	1040	1.03	1.37	8.4	296	230
ZZ72128		3.66	12.40	0.12	1.8	0.038	1.11	23.0	20.1	2.69	1160	0.88	1.37	9.4	362	280
ZZ72129		3.33	13.50	0.13	2.0	0.042	1.28	27.7	25.0	0.94	456	1.04	1.50	10.7	59.8	210
ZZ72130		4.11	14.15	0.12	1.9	0.046	1.15	24.8	32.9	2.03	788	1.04	1.25	9.6	190.5	360
ZZ72131		3.50	13.35	0.14	2.0	0.047	1.19	28.0	27.4	0.84	437	1.22	1.22	9.5	50.2	260
ZZ72132		3.61	15.75	0.14	2.2	0.048	1.47	27.6	32.0	0.78	718	1.33	1.27	11.3	28.8	540
ZZ72133		3.51	15.30	0.17	2.3	0.044	1.53	32.1	31.4	0.87	1120	1.21	1.25	10.8	28.1	1020
ZZ72134		3.16	15.40	0.14	2.2	0.042	1.54	27.7	29.5	0.86	391	1.22	1.47	10.9	23.4	540
ZZ72135		3.26	14.80	0.16	2.2	0.047	1.57	29.8	30.1	0.83	413	1.20	1.23	10.6	24.5	580
ZZ72136		3.86	19.45	0.17	2.6	0.060	2.02	35.4	42.6	0.84	773	1.59	1.23	17.5	33.2	640
ZZ72137		3.38	16.70	0.19	2.4	0.047	1.72	39.5	30.0	0.76	517	1.36	1.33	14.6	24.7	630
ZZ72138		3.30	16.70	0.18	2.5	0.047	1.78	39.4	30.3	0.72	704	1.37	1.18	13.4	32.1	830
ZZ72139		3.16	15.20	0.14	2.4	0.044	1.60	31.2	29.2	0.71	516	1.21	1.18	11.4	32.6	440
ZZ72140		2.92	15.50	0.14	2.3	0.047	1.58	31.1	27.9	0.73	796	1.25	1.32	11.4	26.4	650
ZZ72141		2.98	16.95	0.16	2.7	0.056	1.67	37.7	35.2	0.69	1100	1.62	1.03	11.6	33.8	980
ZZ72142		2.94	16.75	0.13	2.4	0.050	1.75	30.9	30.7	0.72	1280	1.27	1.24	12.5	24.9	930
ZZ72143		3.26	16.50	0.16	2.5	0.055	1.56	34.6	29.0	0.75	1460	1.80	1.31	12.2	22.2	1060
ZZ72144		3.25	15.60	0.16	2.3	0.042	1.37	30.6	24.5	0.73	889	1.58	1.42	12.0	21.0	380
ZZ72145		3.42	15.95	0.13	2.2	0.050	1.41	31.4	25.0	0.76	572	1.57	1.36	11.8	25.5	360
ZZ72146		3.15	14.05	0.12	2.2	0.041	1.39	25.4	21.9	0.73	633	1.15	1.60	9.4	20.3	290
ZZ72147		2.84	15.30	0.16	2.1	0.039	1.43	26.6	20.5	0.72	362	1.43	1.54	10.5	20.0	610
ZZ72148		3.41	15.10	0.14	2.4	0.040	1.36	28.1	24.5	0.70	314	1.56	1.26	11.5	25.0	480
ZZ72149		3.06	14.10	0.15	2.1	0.038	1.27	29.4	21.9	0.73	358	1.11	1.50	11.8	19.8	240
ZZ72150		3.46	13.70	0.14	2.2	0.042	1.27	30.7	24.6	0.78	413	1.22	1.37	10.6	30.1	270
ZZ72151		4.24	20.3	0.17	2.8	0.058	2.04	43.0	32.0	0.71	561	1.73	1.15	16.9	31.5	530
ZZ72152		4.00	21.0	0.21	3.0	0.061	2.26	49.1	32.4	0.71	519	1.39	1.14	17.7	31.1	740
ZZ72153		4.02	24.8	0.21	3.4	0.072	2.89	49.7	38.5	0.60	604	1.54	1.08	19.4	30.7	550
ZZ72154		4.16	24.8	0.22	3.5	0.077	2.84	56.3	54.8	0.76	583	1.03	1.14	17.7	31.5	660
ZZ72155		4.73	31.6	0.26	4.6	0.095	3.83	60.2	63.5	0.76	633	1.08	0.94	24.0	42.9	960
ZZ72156		5.07	25.2	0.22	3.7	0.078	3.40	57.2	49.6	0.88	551	0.91	0.86	19.4	44.0	860
ZZ72157		5.33	24.3	0.26	4.2	0.077	2.83	70.5	54.3	1.23	589	0.95	0.82	22.4	60.0	1080



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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	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72118		10.9	56.8	0.002	0.01	6.76	13.9	1	1.4	234	0.67	<0.05	7.2	0.362	0.39	1.8
ZZ72119		12.0	62.6	0.003	0.01	4.23	14.6	1	1.5	234	0.67	<0.05	7.3	0.409	0.44	2.0
ZZ72120		14.2	45.9	<0.002	0.01	5.02	16.6	1	1.2	182.0	0.54	0.05	9.4	0.314	0.32	1.7
ZZ72121		19.1	67.3	0.002	0.04	7.26	14.2	1	1.9	179.5	0.65	0.07	7.6	0.384	0.44	2.1
ZZ72122		14.5	66.9	0.002	0.01	3.12	13.1	1	1.9	239	0.70	0.06	8.3	0.392	0.55	2.2
ZZ72123		15.0	69.3	<0.002	0.02	2.90	13.2	1	2.1	259	0.64	0.05	7.8	0.364	0.49	2.3
ZZ72124		17.5	73.9	<0.002	0.01	6.59	15.2	2	3.0	230	0.68	0.05	7.9	0.408	0.59	2.1
ZZ72125		34.0	125.0	0.002	0.01	5.50	21.3	1	5.8	186.5	0.97	0.07	12.7	0.514	1.01	2.8
ZZ72126		17.3	64.3	<0.002	0.01	6.46	13.8	1	3.2	218	0.69	0.05	7.8	0.393	0.53	2.0
ZZ72127		19.0	44.7	<0.002	0.01	13.70	12.4	1	1.8	245	0.59	<0.05	7.1	0.348	0.64	1.7
ZZ72128		15.4	50.5	<0.002	0.01	3.11	11.9	1	1.1	276	0.61	<0.05	5.6	0.365	0.34	1.7
ZZ72129		16.3	61.5	<0.002	0.01	1.51	12.2	1	1.5	243	0.71	<0.05	7.1	0.409	0.47	2.0
ZZ72130		10.9	65.4	<0.002	<0.01	1.83	16.6	1	1.3	182.5	0.65	<0.05	6.2	0.442	0.40	1.7
ZZ72131		10.8	57.6	<0.002	0.01	1.51	14.5	1	1.3	181.5	0.68	<0.05	6.9	0.392	0.41	1.9
ZZ72132		16.5	81.2	<0.002	0.01	1.77	14.6	1	2.5	197.0	0.77	<0.05	7.2	0.447	0.55	2.0
ZZ72133		14.7	80.2	<0.002	0.01	1.03	13.6	2	1.5	197.0	0.74	0.06	8.1	0.428	0.46	2.1
ZZ72134		13.2	80.9	<0.002	0.01	0.96	11.9	1	1.6	240	0.74	<0.05	6.5	0.407	0.53	1.8
ZZ72135		16.6	90.6	<0.002	0.01	1.16	12.4	1	1.6	184.0	0.72	<0.05	7.0	0.381	0.51	1.7
ZZ72136		18.3	107.5	<0.002	0.01	1.70	15.2	1	2.2	211	1.10	<0.05	9.6	0.423	0.71	2.5
ZZ72137		14.6	93.5	<0.002	0.01	1.45	12.6	1	1.8	217	0.92	<0.05	9.5	0.458	0.62	2.2
ZZ72138		12.8	101.5	<0.002	0.01	1.59	12.9	2	1.9	202	0.86	<0.05	9.2	0.452	0.65	2.1
ZZ72139		12.9	83.2	<0.002	0.01	1.58	12.7	1	1.7	208	0.77	0.05	7.7	0.418	0.62	2.0
ZZ72140		20.9	78.2	<0.002	0.02	1.68	13.1	1	1.6	247	0.79	0.05	8.0	0.430	0.56	2.2
ZZ72141		25.0	93.5	<0.002	0.01	2.42	14.4	2	1.8	209	0.80	0.07	9.5	0.440	0.63	2.5
ZZ72142		23.6	103.0	<0.002	0.01	1.78	13.6	1	2.0	216	0.84	<0.05	8.0	0.436	0.68	2.2
ZZ72143		27.3	98.0	<0.002	0.01	2.64	12.5	1	1.8	229	0.83	0.05	8.4	0.443	0.64	2.3
ZZ72144		23.4	71.9	<0.002	0.01	1.73	11.3	1	1.8	230	0.82	0.06	7.0	0.456	0.54	2.0
ZZ72145		32.1	74.5	<0.002	0.01	2.01	12.0	1	2.0	232	0.81	0.06	7.6	0.420	0.60	2.1
ZZ72146		12.9	67.3	<0.002	0.01	1.17	10.1	1	1.3	281	0.65	<0.05	6.4	0.395	0.45	1.8
ZZ72147		14.9	85.7	<0.002	0.01	1.34	10.7	1	1.7	255	0.74	<0.05	6.0	0.408	0.55	2.0
ZZ72148		15.1	82.2	<0.002	0.01	1.61	11.7	1	1.6	209	0.77	<0.05	7.0	0.437	0.57	2.0
ZZ72149		14.7	63.7	<0.002	0.01	1.13	10.7	1	1.7	230	0.80	<0.05	6.8	0.431	0.50	1.9
ZZ72150		13.0	61.2	<0.002	0.01	1.63	12.1	1	1.5	224	0.72	<0.05	7.6	0.417	0.49	2.2
ZZ72151		20.1	116.0	<0.002	0.01	1.54	14.4	1	2.1	184.5	1.04	<0.05	9.9	0.510	1.21	2.2
ZZ72152		18.9	126.5	<0.002	0.02	1.74	15.7	1	2.3	191.5	1.09	0.05	11.6	0.522	1.15	2.3
ZZ72153		20.1	149.5	<0.002	0.01	2.04	17.9	1	2.5	204	1.19	0.05	13.7	0.568	1.39	2.6
ZZ72154		18.5	145.0	<0.002	0.02	1.14	18.6	1	2.6	173.5	1.12	<0.05	14.9	0.519	0.81	2.4
ZZ72155		19.5	194.0	<0.002	0.02	1.45	24.3	2	3.3	183.5	1.50	0.05	18.0	0.629	1.09	3.1
ZZ72156		21.9	154.5	<0.002	0.01	1.26	20.7	2	2.7	142.0	1.19	<0.05	16.5	0.569	0.75	2.6
ZZ72157		21.2	140.5	<0.002	0.02	1.66	20.2	2	2.5	133.0	1.41	<0.05	18.5	0.615	0.74	2.7



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72118		102	1.1	13.3	56	63.1
ZZ72119		126	1.1	19.7	67	75.3
ZZ72120		102	1.4	19.4	61	57.8
ZZ72121		105	1.5	18.9	76	64.5
ZZ72122		111	1.3	18.0	76	78.9
ZZ72123		115	1.4	15.4	72	76.8
ZZ72124		133	1.6	15.9	72	72.1
ZZ72125		185	2.7	13.8	109	109.0
ZZ72126		130	1.4	16.4	74	67.0
ZZ72127		108	1.2	13.7	68	57.7
ZZ72128		99	1.2	11.5	90	62.7
ZZ72129		122	1.1	13.0	68	71.5
ZZ72130		134	1.1	14.3	91	69.8
ZZ72131		132	1.2	12.1	67	69.6
ZZ72132		150	1.4	11.0	82	74.2
ZZ72133		135	1.1	11.7	97	84.4
ZZ72134		129	1.2	11.2	69	78.5
ZZ72135		128	1.0	9.4	75	75.2
ZZ72136		144	1.2	14.3	107	91.7
ZZ72137		132	1.3	13.2	78	85.1
ZZ72138		132	1.3	12.3	95	87.3
ZZ72139		139	1.5	12.2	82	89.4
ZZ72140		130	1.5	12.0	104	85.5
ZZ72141		140	1.7	14.0	155	96.6
ZZ72142		143	1.5	12.5	120	83.9
ZZ72143		140	2.0	14.8	86	90.1
ZZ72144		135	1.5	12.1	68	80.3
ZZ72145		136	1.3	13.6	65	77.3
ZZ72146		114	1.0	10.7	58	77.4
ZZ72147		118	1.4	11.8	55	76.5
ZZ72148		135	1.4	11.7	57	82.8
ZZ72149		121	1.2	12.2	50	71.9
ZZ72150		128	1.1	17.4	62	78.7
ZZ72151		165	1.7	11.0	93	98.0
ZZ72152		153	2.1	12.2	90	101.5
ZZ72153		163	2.5	12.3	96	119.5
ZZ72154		130	1.6	12.6	90	118.5
ZZ72155		178	2.1	13.7	124	156.0
ZZ72156		155	1.7	12.8	133	135.0
ZZ72157		156	1.6	16.4	135	148.0



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72158		0.31	0.006	0.42	8.63	41.9	2050	2.31	0.25	1.62	0.36	97.0	16.9	123	8.10	43.0
ZZ72159		0.12	0.001	0.29	7.77	9.3	1120	1.83	0.29	1.47	0.47	73.5	15.9	72	7.96	32.1
ZZ72160		0.23	0.001	0.24	8.13	10.5	1060	1.84	0.36	1.12	0.16	82.5	17.3	81	7.34	29.6
ZZ72161		0.26	0.003	0.10	8.88	20.9	1000	2.27	0.43	0.83	0.14	91.8	16.8	91	8.75	37.3
ZZ72162		0.26	0.004	0.19	7.97	21.8	1050	1.86	0.24	1.15	0.30	80.4	12.1	151	8.58	30.3
ZZ72163		0.30	0.004	0.20	9.29	13.9	1000	2.77	0.43	0.78	0.13	118.0	24.5	148	11.80	51.4
ZZ72164		0.28	0.004	0.12	7.73	25.3	1070	2.24	0.26	0.87	0.17	81.6	27.6	224	8.78	25.9
ZZ72165		0.23	0.003	0.11	5.75	7.9	820	0.94	0.13	1.46	0.25	43.3	43.8	340	6.64	20.1
ZZ72166		0.21	0.005	0.08	5.76	13.1	930	1.24	0.13	1.71	0.16	69.2	27.7	286	2.42	23.7
ZZ72167		0.27	0.004	0.10	5.88	13.3	970	1.24	0.14	1.71	0.09	55.6	22.8	218	4.34	38.8
ZZ72168		0.23	0.006	0.23	5.98	35.5	1430	1.09	0.12	2.24	0.29	42.4	17.0	174	2.56	55.1
ZZ72169		0.18	0.005	0.26	7.73	56.8	2890	1.44	0.16	1.14	0.11	55.0	22.7	199	7.25	72.9
ZZ72170		0.20	0.033	0.34	6.46	204	3380	1.43	0.14	1.22	0.13	57.2	39.4	328	6.05	74.3
ZZ72171		0.15	0.008	0.25	6.88	81.4	2650	1.45	0.17	1.26	0.10	64.3	17.2	143	3.85	48.6
ZZ72172		0.21	0.052	0.62	7.61	572	3460	1.66	0.19	1.25	0.34	60.3	22.7	224	5.64	77.3
ZZ72173		0.16	0.023	0.58	7.54	198.5	3610	1.31	0.16	1.50	0.38	52.0	30.1	231	5.03	72.1
ZZ72174		0.25	0.008	0.21	6.21	47.2	1560	1.49	0.17	1.40	0.13	65.1	12.9	96	3.01	29.4
ZZ72175		0.30	0.008	0.40	6.34	43.5	1810	1.48	0.21	1.23	0.16	65.7	13.9	112	3.30	34.2
ZZ72176		0.30	0.015	0.49	7.51	186.5	2790	1.46	0.16	1.04	0.14	63.7	20.4	125	4.46	45.9
ZZ72177		0.17	0.018	0.51	6.37	68.3	1630	1.41	0.16	1.23	0.20	59.9	19.9	280	3.75	40.9
ZZ72178		0.29	0.008	0.36	7.96	35.3	2930	1.42	0.17	1.01	0.17	51.0	13.4	141	4.39	81.9
ZZ72179		0.20	0.005	0.19	6.98	42.4	3150	1.38	0.16	0.79	0.17	56.6	12.6	101	4.15	45.7
ZZ72180		0.21	0.010	0.40	7.53	51.7	2980	1.73	0.17	0.70	0.18	54.1	20.1	600	5.70	45.1
ZZ72181		0.15	0.005	0.68	7.35	17.0	1720	1.93	0.21	1.67	0.54	74.7	17.8	153	7.61	46.7
ZZ72182		0.19	0.005	0.17	8.16	32.4	2420	2.14	0.20	0.74	0.26	131.0	20.2	101	8.03	40.0
ZZ72183		0.20	0.005	0.19	9.72	36.8	2160	2.85	0.15	1.12	0.10	111.0	20.3	114	9.68	32.8
ZZ72184		0.09	0.003	0.15	6.95	15.1	2230	1.58	0.18	1.01	0.17	66.6	11.6	81	4.82	24.4
ZZ72185		0.14	0.002	0.31	6.61	6.3	1800	1.16	0.18	1.58	0.30	50.5	10.9	57	2.89	31.2
ZZ72186		0.13	0.006	0.74	6.64	25.0	6720	1.55	0.18	0.96	0.17	71.2	9.7	94	6.61	34.2
ZZ72187		0.09	0.002	0.49	7.12	20.5	7420	1.52	0.18	1.30	0.29	66.2	12.1	92	6.10	28.7
ZZ72188		0.15	0.002	0.32	5.86	11.6	2660	1.15	0.14	1.21	0.11	55.4	10.3	69	3.00	16.8
ZZ72189		0.22	0.025	0.41	5.91	31.2	3130	1.38	0.16	0.95	0.09	60.8	7.0	76	4.50	26.9
ZZ72190		0.26	0.010	0.18	6.01	24.2	1630	1.34	0.15	1.26	0.09	57.3	9.9	82	3.65	30.5
ZZ72191		0.14	0.008	0.55	6.26	26.3	2010	1.37	0.18	1.09	0.13	61.4	12.4	87	5.09	26.5
ZZ72192		0.15	0.005	0.30	5.72	17.2	1220	1.19	0.16	1.13	0.13	59.5	7.9	82	4.03	18.3



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
ZZ72158		4.14	22.2	0.21	3.5	0.072	2.61	50.4	44.7	0.97	544	1.23	0.65	20.7	50.9	990
ZZ72159		3.63	17.70	0.18	2.8	0.059	1.61	36.1	47.7	0.83	857	1.77	1.43	12.1	36.1	1020
ZZ72160		4.12	18.45	0.18	2.9	0.064	1.38	40.7	45.8	0.82	669	1.72	1.34	14.9	33.0	520
ZZ72161		4.41	20.4	0.17	3.4	0.082	1.71	44.3	58.1	0.86	614	13.85	1.49	16.0	45.0	440
ZZ72162		3.52	18.50	0.18	2.9	0.063	1.67	41.2	49.6	1.10	365	0.87	1.31	13.1	107.0	520
ZZ72163		4.75	22.5	0.21	4.1	0.088	2.04	58.1	60.8	1.39	559	1.72	1.27	18.8	141.0	540
ZZ72164		4.50	19.95	0.13	2.8	0.076	1.79	39.3	41.8	1.94	536	1.22	1.31	13.9	293	500
ZZ72165		3.49	13.35	0.12	1.9	0.039	1.08	22.2	19.4	3.47	728	0.60	1.33	8.0	505	310
ZZ72166		3.91	12.70	0.13	2.1	0.049	1.17	33.5	20.1	2.59	614	0.89	1.40	10.0	292	370
ZZ72167		3.69	13.15	0.13	1.9	0.054	1.09	29.5	23.0	2.12	598	0.52	1.37	9.0	258	430
ZZ72168		3.60	13.10	0.11	1.8	0.053	1.03	22.7	38.8	1.88	670	0.96	1.33	6.4	137.0	590
ZZ72169		4.08	19.40	0.14	2.7	0.060	1.40	29.5	44.2	1.33	1200	2.21	1.83	8.6	153.5	240
ZZ72170		4.60	16.20	0.12	2.0	0.060	1.54	28.8	45.8	3.12	1250	1.71	1.08	8.8	392	390
ZZ72171		3.72	16.45	0.15	2.5	0.058	1.59	34.7	29.4	1.05	1040	2.16	1.29	8.9	91.5	320
ZZ72172		4.81	18.60	0.13	2.7	0.086	1.85	31.2	28.1	0.83	1950	1.99	1.08	8.6	141.0	530
ZZ72173		4.68	17.70	0.13	1.8	0.069	1.41	25.9	39.3	1.48	1540	1.56	1.56	8.1	113.0	460
ZZ72174		3.46	14.15	0.16	2.0	0.048	1.36	33.2	22.6	0.82	634	1.38	1.40	10.0	47.7	200
ZZ72175		3.57	14.75	0.11	2.3	0.053	1.36	32.0	22.8	0.81	678	1.49	1.25	9.6	63.6	270
ZZ72176		4.63	18.00	0.13	2.1	0.061	1.43	31.9	33.5	0.85	1540	1.53	1.27	10.1	57.0	390
ZZ72177		4.00	14.15	0.13	1.8	0.047	1.29	31.4	25.5	1.39	961	1.33	1.28	9.5	185.5	420
ZZ72178		4.34	18.75	0.12	2.0	0.061	1.46	31.2	48.8	1.13	818	1.32	1.36	8.9	61.9	410
ZZ72179		3.80	17.10	0.14	2.1	0.055	1.73	29.9	37.7	0.92	669	1.16	1.25	10.1	39.2	610
ZZ72180		4.57	20.0	0.14	2.3	0.065	2.01	30.8	49.3	2.35	622	1.23	0.80	8.9	353	760
ZZ72181		3.89	18.65	0.19	2.3	0.064	2.05	53.6	54.3	1.21	814	1.41	0.59	10.7	90.9	1120
ZZ72182		4.69	21.6	0.19	3.1	0.072	2.87	65.3	52.6	0.98	872	1.72	0.76	16.5	57.3	1050
ZZ72183		4.77	27.9	0.20	3.3	0.092	3.53	54.7	63.6	0.94	623	0.86	0.51	21.8	47.2	580
ZZ72184		3.23	17.45	0.12	2.4	0.052	1.73	34.4	33.9	0.73	476	1.46	1.22	11.7	33.5	360
ZZ72185		2.82	16.70	0.13	2.4	0.041	1.59	25.0	24.9	0.65	1200	1.25	1.66	8.8	23.9	860
ZZ72186		2.93	18.15	0.16	2.8	0.050	1.67	36.2	30.8	0.59	1200	2.42	1.04	10.7	30.7	1030
ZZ72187		3.15	18.50	0.15	2.8	0.051	1.75	34.2	30.1	0.66	1400	1.81	1.28	10.3	31.4	1190
ZZ72188		2.53	13.95	0.15	2.0	0.041	1.29	27.8	22.7	0.64	762	1.11	1.44	9.9	25.0	370
ZZ72189		2.71	15.50	0.14	2.1	0.049	1.45	31.3	25.5	0.69	323	1.69	1.21	10.8	25.4	480
ZZ72190		3.11	14.45	0.16	2.3	0.048	1.29	30.5	23.0	0.82	446	1.26	1.32	10.3	31.5	350
ZZ72191		3.12	16.05	0.14	2.7	0.048	1.36	33.8	23.6	0.68	605	1.76	1.19	9.9	29.3	630
ZZ72192		2.75	14.30	0.13	2.0	0.041	1.26	31.3	20.8	0.70	399	1.16	1.31	10.5	22.8	310



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CERTIFICATE OF ANALYSIS WH13121180

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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72158		19.6	135.0	<0.002	0.04	1.54	18.9	1	2.4	178.0	1.27	<0.05	14.1	0.581	0.77	2.9
ZZ72159		25.5	79.5	<0.002	0.03	1.25	13.2	2	1.9	331	0.81	0.06	9.9	0.413	0.55	2.0
ZZ72160		28.1	74.3	<0.002	0.01	1.32	14.8	1	2.2	248	0.97	0.06	11.7	0.491	0.64	2.1
ZZ72161		34.1	106.0	<0.002	0.01	2.01	16.7	3	2.5	270	1.03	0.08	15.4	0.482	0.70	2.5
ZZ72162		16.8	99.3	<0.002	0.01	8.59	15.6	1	2.1	279	0.93	0.07	10.5	0.436	0.68	2.5
ZZ72163		33.1	122.5	<0.002	0.01	3.77	20.4	1	2.9	271	1.19	0.11	18.7	0.534	0.76	2.7
ZZ72164		21.5	101.5	<0.002	0.01	5.98	17.1	2	2.6	175.0	0.98	0.06	10.8	0.443	0.74	2.1
ZZ72165		10.3	53.6	<0.002	0.01	5.46	11.9	1	1.3	246	0.62	0.05	5.0	0.359	0.35	1.7
ZZ72166		11.5	53.0	<0.002	0.01	3.63	14.2	1	1.4	244	0.73	<0.05	8.2	0.450	0.36	2.1
ZZ72167		10.7	55.7	<0.002	0.01	4.26	15.3	1	1.5	224	0.66	<0.05	6.9	0.423	0.40	1.9
ZZ72168		10.6	43.4	<0.002	0.04	2.17	15.9	1	1.1	232	0.48	0.07	5.3	0.334	0.31	1.8
ZZ72169		24.2	64.7	<0.002	0.01	5.20	19.6	1	2.3	243	0.64	0.05	6.7	0.428	0.43	2.1
ZZ72170		20.1	73.6	<0.002	0.02	9.70	21.8	2	3.9	161.0	0.65	0.06	6.9	0.427	0.60	1.6
ZZ72171		18.1	81.1	<0.002	0.01	3.45	15.8	2	2.9	224	0.65	0.06	7.7	0.410	0.54	1.9
ZZ72172		73.1	108.0	<0.002	0.02	10.20	24.6	2	10.5	234	0.62	0.09	7.6	0.404	0.82	2.1
ZZ72173		36.2	81.7	<0.002	0.02	6.12	26.1	1	7.0	196.5	0.59	0.05	6.4	0.449	0.51	1.4
ZZ72174		16.2	69.7	<0.002	0.01	2.62	13.8	1	1.9	234	0.76	0.06	8.3	0.405	0.47	2.2
ZZ72175		14.9	72.5	<0.002	0.01	2.10	14.1	1	1.9	218	0.70	0.08	9.0	0.395	0.50	2.1
ZZ72176		17.9	73.3	<0.002	0.01	3.43	22.6	1	3.3	205	0.73	0.07	7.9	0.464	0.65	2.0
ZZ72177		15.6	69.6	<0.002	0.01	4.80	13.9	2	2.3	208	0.72	0.06	7.1	0.424	0.50	2.3
ZZ72178		14.9	84.8	<0.002	0.01	2.01	20.8	1	1.9	188.0	0.66	0.05	6.3	0.466	0.52	2.2
ZZ72179		13.4	100.5	<0.002	0.01	1.75	17.1	2	2.3	158.5	0.73	0.05	7.4	0.427	0.54	2.0
ZZ72180		19.6	98.0	<0.002	0.02	4.35	18.3	1	3.8	134.0	0.64	0.05	7.2	0.348	0.67	2.4
ZZ72181		23.1	111.5	<0.002	0.07	1.83	17.5	2	2.1	151.5	0.77	0.06	9.5	0.367	0.64	3.3
ZZ72182		32.3	137.0	<0.002	0.01	2.46	17.5	1	2.4	126.0	1.12	0.05	17.5	0.501	0.80	2.6
ZZ72183		29.3	168.0	<0.002	0.01	2.02	23.2	1	2.9	115.0	1.41	<0.05	15.0	0.649	0.99	2.3
ZZ72184		14.7	81.4	<0.002	0.01	1.67	12.4	1	2.0	213	0.86	0.05	8.2	0.428	0.61	2.0
ZZ72185		15.1	60.4	<0.002	0.01	1.03	9.7	<1	1.5	328	0.65	<0.05	5.5	0.394	0.44	1.8
ZZ72186		18.7	91.3	<0.002	0.02	2.30	13.7	2	2.1	249	0.84	0.07	8.8	0.417	0.72	2.5
ZZ72187		17.6	93.8	<0.002	0.02	3.34	13.1	1	1.8	273	0.78	0.07	7.9	0.432	0.74	2.4
ZZ72188		12.9	56.4	<0.002	0.01	1.30	10.5	1	1.5	252	0.75	0.06	6.4	0.399	0.50	1.8
ZZ72189		23.6	89.6	<0.002	0.01	2.98	12.0	1	1.9	195.0	0.94	<0.05	7.5	0.395	0.68	2.1
ZZ72190		15.0	71.1	<0.002	0.01	2.04	12.5	1	1.7	227	0.75	0.05	7.6	0.418	0.52	2.0
ZZ72191		23.3	82.8	<0.002	0.01	2.29	11.7	2	1.9	248	0.71	0.06	8.0	0.398	0.55	2.5
ZZ72192		13.4	79.5	<0.002	<0.01	1.41	11.1	1	1.8	209	0.77	<0.05	6.9	0.445	0.54	2.0



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CERTIFICATE OF ANALYSIS WH13121180

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72158		156	2.0	14.3	118	127.5
ZZ72159		97	1.3	12.1	117	102.0
ZZ72160		116	1.5	12.9	125	107.0
ZZ72161		154	1.9	13.5	90	117.0
ZZ72162		178	2.5	17.8	88	96.0
ZZ72163		130	2.1	17.0	79	140.5
ZZ72164		119	2.4	12.8	77	96.0
ZZ72165		91	1.4	10.3	61	69.5
ZZ72166		124	1.5	15.4	68	76.8
ZZ72167		122	1.2	18.2	63	65.5
ZZ72168		116	1.3	11.6	70	62.4
ZZ72169		149	2.1	19.8	92	104.5
ZZ72170		156	2.1	18.8	89	76.4
ZZ72171		133	1.4	18.5	75	89.8
ZZ72172		164	2.4	17.0	130	93.3
ZZ72173		169	2.0	17.0	101	65.1
ZZ72174		126	1.3	17.8	74	73.0
ZZ72175		125	1.3	13.8	82	78.1
ZZ72176		180	2.1	12.0	104	75.6
ZZ72177		135	1.4	17.6	113	65.4
ZZ72178		165	1.3	16.7	109	74.7
ZZ72179		156	1.7	11.0	102	77.3
ZZ72180		159	1.3	11.8	117	86.7
ZZ72181		122	1.1	24.8	131	83.8
ZZ72182		136	1.4	16.0	156	113.0
ZZ72183		150	1.2	15.2	149	121.0
ZZ72184		123	1.3	10.1	93	87.2
ZZ72185		97	1.0	10.3	115	91.6
ZZ72186		143	1.9	11.2	158	113.0
ZZ72187		135	1.8	11.3	177	110.5
ZZ72188		105	1.2	10.1	67	74.5
ZZ72189		131	1.5	11.5	64	79.2
ZZ72190		127	1.3	14.5	65	79.0
ZZ72191		130	1.4	13.4	65	99.0
ZZ72192		125	1.3	11.8	56	74.7



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 Account: MTT

CERTIFICATE WH13121181

Project: Magnum
 P.O. No.:
 This report is for 196 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2013.
 The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER
-----------------	-----------------	----------------

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	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
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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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH13121181

Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72201		0.24	0.003	0.10	5.65	9.6	960	1.11	0.14	1.18	0.09	54.2	7.6	74	3.02	16.6
ZZ72202		0.24	0.005	0.09	5.57	9.0	1110	1.27	0.14	0.88	0.05	58.9	8.5	90	5.32	30.6
ZZ72203		0.24	0.003	0.17	5.69	7.3	1000	1.06	0.16	1.06	0.06	56.7	6.1	77	4.58	13.1
ZZ72204		0.20	0.004	0.15	6.16	13.0	1190	1.22	0.17	0.97	0.12	51.5	8.7	89	4.22	17.9
ZZ72205		0.13	0.006	0.60	5.31	8.2	4420	1.28	0.17	0.72	0.19	53.3	4.4	73	6.56	23.5
ZZ72206		0.15	0.010	0.16	5.31	15.1	3640	1.19	0.14	0.71	0.09	49.2	6.0	81	4.32	28.1
ZZ72207		0.13	0.001	0.48	5.99	9.0	2020	1.15	0.19	1.26	0.56	49.1	11.7	63	3.32	24.9
ZZ72208		0.21	0.011	0.63	6.45	33.0	4070	1.17	0.21	1.11	0.20	42.7	10.3	80	3.59	39.0
ZZ72209		0.16	0.007	0.15	7.68	46.5	4480	1.76	0.22	0.70	0.23	100.5	11.6	102	5.73	36.5
ZZ72210		0.14	0.016	0.25	6.89	19.2	3640	1.39	0.19	0.90	0.15	55.1	10.3	88	4.06	34.1
ZZ72211		0.17	0.006	0.14	9.51	32.6	5010	2.65	0.27	0.43	0.16	115.5	14.0	105	6.78	28.3
ZZ72212		0.12	0.007	0.18	8.71	53.3	1650	2.35	0.24	0.55	0.11	124.5	12.8	97	6.10	22.4
ZZ72213		0.16	0.004	0.04	9.33	60.9	1980	2.33	0.30	0.62	0.18	125.5	20.2	116	7.35	31.7
ZZ72214		0.17	0.004	0.43	9.09	43.7	2220	2.34	0.26	1.12	0.32	83.4	14.6	111	7.81	34.9
ZZ72215		0.13	0.006	0.34	8.44	52.9	1860	2.04	0.21	0.94	0.24	78.3	10.7	92	6.97	23.0
ZZ72216		0.12	0.007	0.36	8.49	65.8	1690	2.18	0.25	1.16	0.45	100.5	19.6	104	7.24	42.8
ZZ72217		0.13	0.009	0.28	8.53	79.2	1930	2.31	0.29	1.02	0.24	122.5	17.2	98	7.83	42.8
ZZ72218		0.12	0.009	0.28	7.35	42.7	1780	1.88	0.22	1.51	0.38	85.4	15.5	98	6.39	40.9
ZZ72219		0.16	0.011	0.33	7.37	33.6	1730	1.92	0.24	1.50	0.49	88.5	15.9	94	6.10	47.0
ZZ72220		0.20	0.006	0.32	6.11	34.2	1310	1.30	0.17	1.29	0.10	55.9	11.7	90	3.59	33.4
ZZ72221		0.22	0.005	0.30	6.16	39.8	1540	1.28	0.17	1.25	0.16	58.3	12.8	96	3.98	25.6
ZZ72222		0.17	0.011	0.35	6.35	184.5	1540	1.17	0.17	1.32	0.27	54.4	17.8	134	4.10	28.9
ZZ72223		0.22	0.059	1.23	5.68	665	1950	1.16	0.18	1.15	0.70	46.1	54.4	459	9.33	48.0
ZZ72224		0.24	0.032	1.18	6.00	243	2210	1.22	0.18	1.10	0.28	53.6	21.6	223	4.23	20.3
ZZ72225		0.27	0.007	0.06	5.91	36.4	930	1.12	0.14	1.68	0.14	50.8	20.1	205	5.64	31.9
ZZ72226		0.18	0.005	0.07	8.63	19.4	920	2.43	0.40	0.84	0.18	108.0	22.3	169	10.65	42.7
ZZ72227		0.25	0.005	0.33	5.66	33.8	1010	1.28	0.15	1.55	1.21	45.5	46.3	536	9.57	35.5
ZZ72228		0.20	0.013	0.27	6.66	20.9	1200	1.21	0.16	1.58	0.67	49.6	25.6	262	2.87	31.5
ZZ72229		0.14	0.023	1.90	6.94	141.0	2440	1.18	0.38	1.23	2.10	51.7	25.1	304	8.43	91.1
ZZ72230		0.15	0.019	0.33	6.88	47.5	2490	1.07	0.14	2.09	0.31	43.0	22.6	228	6.48	91.7
ZZ72231		0.19	0.006	0.08	8.84	210	3270	1.90	0.15	3.82	0.07	64.9	46.4	619	12.10	22.7
ZZ72232		0.18	0.009	0.12	6.68	122.5	2120	1.41	0.19	1.46	0.16	57.2	27.2	250	5.28	45.5
ZZ72233		0.23	0.006	0.10	5.52	15.8	890	0.96	0.15	1.27	0.09	41.5	51.1	531	4.83	19.5
ZZ72234		0.22	0.007	0.08	5.89	8.6	1050	0.97	0.15	1.37	0.08	43.7	20.0	128	3.33	15.3
ZZ72235		0.15	0.005	0.14	5.91	11.0	1360	1.08	0.16	1.31	0.11	49.4	24.9	204	4.86	23.7
ZZ72236		0.15	0.002	0.20	6.89	9.5	2230	1.18	0.21	1.21	0.10	56.1	14.7	88	5.24	36.9
ZZ72237		0.13	0.017	0.33	8.38	56.6	5900	1.51	0.17	0.67	0.23	65.9	19.4	143	8.24	91.9
ZZ72238		0.21	0.005	0.33	6.55	39.6	1750	1.16	0.15	1.39	0.11	53.4	12.8	85	2.77	25.1
ZZ72239		0.27	0.032	0.44	7.32	144.0	2340	1.44	0.16	0.89	0.11	62.5	29.6	418	7.23	57.0
ZZ72240		0.22	0.020	0.37	7.23	83.1	1260	0.78	0.09	1.16	0.12	39.4	45.1	753	3.95	47.9



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CERTIFICATE OF ANALYSIS WH13121181

Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
ZZ72201		2.73	13.45	0.12	1.9	0.042	1.22	28.0	20.8	0.74	340	1.05	1.40	9.8	22.4	210
ZZ72202		2.77	13.60	0.13	2.2	0.045	1.36	33.3	23.2	0.60	360	1.24	1.02	9.3	35.1	270
ZZ72203		2.33	14.55	0.14	1.9	0.041	1.32	29.6	18.8	0.65	298	1.04	1.34	10.9	18.9	200
ZZ72204		3.09	14.90	0.13	1.9	0.044	1.29	27.3	25.2	0.69	339	1.49	1.26	10.0	25.0	380
ZZ72205		1.99	15.65	0.13	2.4	0.041	1.52	27.3	16.4	0.45	298	2.58	0.90	9.3	19.9	460
ZZ72206		2.48	13.30	0.13	1.9	0.041	1.43	25.9	18.7	0.53	309	1.69	0.97	9.0	28.4	380
ZZ72207		2.48	15.55	0.13	2.3	0.041	1.47	24.6	18.1	0.56	4130	1.29	1.54	8.8	24.5	760
ZZ72208		2.94	18.70	0.16	2.2	0.043	1.55	22.2	19.4	0.61	978	2.00	1.39	11.3	30.4	740
ZZ72209		3.46	21.8	0.20	2.9	0.067	2.14	52.5	28.9	0.53	641	1.62	0.96	15.3	40.3	560
ZZ72210		3.67	18.90	0.16	2.0	0.052	1.49	29.2	27.9	0.67	431	2.19	1.17	11.7	33.2	500
ZZ72211		4.17	27.9	0.24	3.1	0.082	3.04	60.3	39.3	0.59	488	1.47	0.85	18.2	42.0	630
ZZ72212		3.50	25.4	0.25	2.9	0.071	2.58	65.6	38.5	0.63	362	1.19	1.03	18.6	33.3	540
ZZ72213		4.03	27.9	0.27	3.6	0.083	2.72	64.5	44.3	0.68	400	1.53	1.06	21.5	55.0	860
ZZ72214		3.73	27.3	0.23	3.2	0.077	2.71	47.0	43.1	0.81	521	1.36	0.91	19.4	43.0	820
ZZ72215		2.89	24.6	0.19	2.7	0.063	2.56	41.2	38.2	0.63	359	1.77	1.08	16.9	29.0	550
ZZ72216		4.11	25.0	0.24	2.9	0.075	2.42	51.9	43.7	0.76	1230	1.52	0.81	17.4	48.8	730
ZZ72217		4.06	24.6	0.26	3.3	0.073	2.74	65.0	41.8	0.83	541	1.50	0.78	17.5	48.8	890
ZZ72218		3.61	20.6	0.21	2.7	0.060	2.30	45.5	33.1	0.82	660	1.53	0.67	16.5	44.7	1040
ZZ72219		3.97	20.5	0.22	2.7	0.060	2.21	47.6	29.6	0.73	753	2.29	0.76	15.7	42.8	980
ZZ72220		3.32	14.80	0.18	2.0	0.046	1.31	30.8	22.6	0.71	568	1.34	1.34	10.5	48.7	290
ZZ72221		3.18	15.95	0.17	2.0	0.046	1.30	29.5	22.4	0.68	843	1.45	1.29	11.1	46.9	280
ZZ72222		3.37	15.70	0.17	1.9	0.082	1.28	27.0	21.4	1.08	966	1.57	1.38	10.0	113.5	290
ZZ72223		4.68	14.70	0.19	1.7	0.083	1.34	23.7	18.5	2.98	1460	1.55	1.04	8.9	692	480
ZZ72224		3.34	14.95	0.16	1.9	0.056	1.21	27.4	18.0	1.39	877	1.57	1.20	10.5	192.0	310
ZZ72225		3.87	14.70	0.16	1.8	0.053	1.17	26.2	23.8	2.44	665	1.28	1.44	10.7	203	370
ZZ72226		4.36	23.7	0.24	3.4	0.079	1.95	54.6	53.3	1.58	444	2.08	1.29	17.4	156.0	630
ZZ72227		4.25	14.60	0.21	1.7	0.116	1.20	24.4	25.8	4.35	593	1.20	0.95	8.4	869	670
ZZ72228		3.46	16.20	0.17	2.2	0.064	1.18	27.0	22.9	1.85	678	1.22	1.57	9.4	323	290
ZZ72229		4.37	17.70	0.17	1.8	0.221	1.51	26.7	39.0	1.43	1020	2.84	1.02	10.6	300	550
ZZ72230		4.29	16.45	0.17	1.7	0.055	1.27	23.4	36.8	1.98	1030	1.56	1.22	9.0	180.5	800
ZZ72231		3.84	21.6	0.21	1.7	0.070	1.94	31.4	47.3	4.59	810	4.93	0.10	13.7	620	610
ZZ72232		4.06	16.75	0.18	2.1	0.051	1.50	28.3	25.5	1.59	1060	1.59	1.28	10.8	239	300
ZZ72233		4.39	13.40	0.16	1.8	0.036	1.02	19.8	19.5	3.16	915	1.22	1.31	8.4	742	290
ZZ72234		3.02	14.25	0.16	1.7	0.038	1.22	21.7	20.1	1.09	682	1.36	1.51	9.5	162.0	300
ZZ72235		3.50	13.70	0.15	1.7	0.042	1.37	23.5	20.1	1.60	938	1.31	1.29	9.6	212	300
ZZ72236		3.80	17.25	0.16	2.2	0.054	1.26	25.7	29.2	0.79	1000	2.08	1.11	12.8	45.9	430
ZZ72237		4.59	22.3	0.18	2.5	0.092	2.47	34.0	53.0	0.74	1420	1.95	0.76	12.1	60.3	670
ZZ72238		3.08	15.90	0.17	2.0	0.043	1.32	26.2	21.8	0.70	897	1.52	1.44	11.1	37.6	310
ZZ72239		5.29	18.40	0.20	2.3	0.067	1.61	32.6	30.1	1.46	1860	1.92	0.84	12.2	292	420
ZZ72240		6.36	19.15	0.22	1.7	0.063	0.72	20.3	55.3	6.23	1120	0.84	0.58	9.8	569	940



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72201		12.3	64.4	<0.002	<0.01	1.02	10.5	1	1.5	215	0.74	<0.05	6.3	0.405	0.44	1.8
ZZ72202		13.0	78.4	<0.002	<0.01	1.40	11.2	2	1.6	169.5	0.70	<0.05	7.5	0.375	0.53	2.2
ZZ72203		13.2	80.1	<0.002	<0.01	0.94	10.7	1	1.8	195.5	0.81	<0.05	6.2	0.465	0.56	1.9
ZZ72204		14.3	71.7	<0.002	0.01	1.29	10.9	1	1.7	199.0	0.74	<0.05	6.5	0.397	0.53	1.9
ZZ72205		11.6	105.0	<0.002	0.01	1.50	11.7	<1	1.7	151.0	0.68	0.05	6.7	0.379	0.59	2.1
ZZ72206		11.4	84.6	<0.002	0.01	1.24	10.5	2	1.6	149.0	0.67	0.07	6.2	0.362	0.55	2.0
ZZ72207		12.9	67.1	<0.002	0.02	0.86	8.8	1	1.4	281	0.64	<0.05	5.6	0.379	0.47	1.7
ZZ72208		15.8	84.1	<0.002	0.01	1.30	11.5	2	1.7	255	0.82	0.07	6.1	0.428	0.61	2.2
ZZ72209		15.8	119.0	<0.002	0.01	1.67	16.4	2	2.4	168.5	1.14	0.07	13.1	0.469	0.94	2.7
ZZ72210		28.6	76.0	<0.002	0.02	1.23	14.0	2	1.8	194.0	0.83	0.07	7.2	0.408	2.16	2.1
ZZ72211		23.1	159.5	<0.002	0.01	1.45	19.5	2	2.9	134.5	1.34	0.06	15.1	0.505	1.94	2.7
ZZ72212		18.2	147.0	<0.002	0.02	1.29	17.6	2	2.8	165.0	1.35	0.05	14.8	0.519	0.98	2.4
ZZ72213		16.8	154.5	<0.002	0.01	1.37	19.9	3	3.0	170.5	1.58	0.09	15.7	0.588	0.93	2.8
ZZ72214		17.5	154.0	<0.002	0.02	1.43	19.6	2	2.8	187.0	1.39	0.06	13.0	0.553	1.15	2.8
ZZ72215		14.0	140.0	<0.002	0.02	1.25	16.3	2	2.5	211	1.24	0.05	10.9	0.499	0.97	2.2
ZZ72216		20.0	134.5	<0.002	0.03	1.31	18.3	2	2.7	169.0	1.24	0.05	13.6	0.480	0.85	2.6
ZZ72217		18.5	147.0	<0.002	0.02	3.33	18.7	2	2.7	151.0	1.30	0.06	16.1	0.475	0.85	2.5
ZZ72218		15.6	116.5	<0.002	0.04	2.11	15.6	2	2.1	164.0	1.18	0.06	12.2	0.461	0.68	2.4
ZZ72219		20.9	117.0	<0.002	0.04	1.52	16.1	3	2.2	173.5	1.11	0.08	12.4	0.448	0.68	2.5
ZZ72220		15.2	66.2	<0.002	0.01	1.82	13.3	2	1.9	232	0.81	0.06	8.6	0.380	0.56	1.8
ZZ72221		21.6	65.1	<0.002	0.02	1.88	13.1	2	2.5	234	0.83	0.06	8.1	0.383	0.61	1.8
ZZ72222		60.3	56.0	<0.002	0.01	3.56	13.6	2	5.7	249	0.80	0.05	8.1	0.383	0.55	1.8
ZZ72223		144.5	82.4	<0.002	0.03	13.75	16.8	2	10.3	222	0.67	0.06	7.6	0.331	0.58	1.6
ZZ72224		232	54.8	<0.002	0.02	10.80	13.1	2	11.9	212	0.79	0.06	7.3	0.399	0.63	1.9
ZZ72225		14.4	56.4	<0.002	0.01	10.95	17.5	2	1.6	240	0.78	<0.05	7.1	0.436	0.40	2.1
ZZ72226		26.1	123.5	<0.002	0.02	4.23	19.0	2	3.0	262	1.32	0.12	15.4	0.513	0.73	2.6
ZZ72227		43.0	66.1	<0.002	0.03	7.48	15.7	2	4.2	207	0.61	<0.05	7.0	0.316	0.50	1.7
ZZ72228		49.4	45.4	<0.002	0.01	3.71	12.5	2	3.2	303	0.71	<0.05	7.1	0.355	0.43	1.9
ZZ72229		288	79.9	<0.002	0.02	10.85	18.0	2	15.0	269	0.77	0.15	7.3	0.433	0.77	1.8
ZZ72230		17.0	61.6	<0.002	0.04	6.45	19.7	2	1.8	213	0.64	0.05	6.4	0.426	0.41	1.8
ZZ72231		6.7	65.3	<0.002	0.02	8.02	14.2	2	2.9	171.5	1.01	0.10	9.1	0.379	0.77	1.9
ZZ72232		23.1	75.2	<0.002	0.01	5.76	17.0	2	3.1	235	0.85	0.06	8.2	0.414	0.57	1.7
ZZ72233		11.5	43.4	<0.002	0.01	5.45	12.2	1	1.3	236	0.65	<0.05	5.8	0.315	0.37	1.4
ZZ72234		12.8	45.7	<0.002	0.01	1.65	10.9	2	1.5	260	0.72	<0.05	6.1	0.369	0.42	1.6
ZZ72235		15.2	61.5	<0.002	0.01	2.61	13.2	2	1.6	235	0.73	0.05	7.5	0.376	0.46	1.5
ZZ72236		16.3	60.8	<0.002	0.01	1.50	15.4	2	1.9	195.0	0.95	0.08	8.8	0.482	0.60	2.0
ZZ72237		37.0	126.5	<0.002	0.02	7.25	25.1	2	4.5	175.0	0.86	0.09	10.6	0.487	0.80	2.1
ZZ72238		14.4	59.1	<0.002	0.01	1.74	12.1	2	2.5	255	0.88	0.05	7.6	0.412	0.53	1.9
ZZ72239		28.4	94.1	<0.002	0.01	7.39	19.6	2	4.5	189.5	0.90	0.06	9.8	0.499	0.67	2.1
ZZ72240		10.2	31.6	<0.002	0.02	5.99	25.1	2	2.6	107.0	0.69	<0.05	5.4	0.621	0.31	1.5



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ72201		114	1.0	11.0	50	66.1
ZZ72202		126	1.1	14.0	65	77.8
ZZ72203		126	1.2	11.3	45	72.1
ZZ72204		128	1.4	10.6	57	67.6
ZZ72205		126	1.5	8.9	54	93.9
ZZ72206		126	1.3	10.0	59	73.0
ZZ72207		99	1.0	9.0	145	85.7
ZZ72208		130	1.8	11.9	80	86.4
ZZ72209		148	2.7	12.6	98	108.5
ZZ72210		148	1.6	10.3	89	79.7
ZZ72211		151	2.4	12.0	108	115.5
ZZ72212		120	3.3	12.7	77	104.5
ZZ72213		173	2.9	13.9	120	135.0
ZZ72214		154	2.1	15.1	127	119.0
ZZ72215		129	2.1	10.0	77	101.0
ZZ72216		132	2.0	15.3	115	109.0
ZZ72217		131	2.3	16.0	107	115.5
ZZ72218		126	2.2	13.7	118	102.5
ZZ72219		138	2.0	17.1	106	103.5
ZZ72220		115	1.6	16.6	67	71.7
ZZ72221		113	1.6	14.8	85	73.8
ZZ72222		110	1.9	13.9	121	67.6
ZZ72223		118	3.9	15.9	175	62.9
ZZ72224		124	3.7	12.9	124	71.3
ZZ72225		136	1.7	18.1	73	63.3
ZZ72226		123	2.3	14.8	77	125.5
ZZ72227		99	2.0	16.2	248	60.0
ZZ72228		100	1.1	15.8	163	81.0
ZZ72229		149	3.0	15.2	466	73.5
ZZ72230		146	1.5	20.4	91	65.5
ZZ72231		116	6.5	8.4	91	65.5
ZZ72232		138	1.9	17.2	84	76.6
ZZ72233		92	1.5	10.3	70	64.5
ZZ72234		99	1.3	11.4	59	61.8
ZZ72235		110	1.4	12.9	61	62.0
ZZ72236		144	1.3	15.8	76	83.9
ZZ72237		196	2.4	15.2	136	98.2
ZZ72238		117	1.6	12.6	70	72.4
ZZ72239		167	2.2	17.9	100	89.9
ZZ72240		206	1.1	17.2	102	63.9



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72241		0.19	0.031	0.53	8.62	225	6260	1.59	0.19	0.77	0.21	69.2	19.3	213	7.31	78.5
ZZ72242		0.13	0.006	0.25	6.46	102.5	2040	1.22	0.15	0.91	0.17	50.7	31.1	705	3.60	39.2
ZZ72243		0.21	0.008	0.21	7.01	41.2	1100	1.05	0.13	1.88	0.15	51.8	34.4	321	4.86	82.4
ZZ72244		0.19	0.005	0.19	8.17	21.2	2020	1.85	0.22	1.26	0.12	72.1	11.3	99	6.38	23.0
ZZ72245		0.21	0.004	0.16	6.94	15.2	1010	1.31	0.18	1.32	0.08	61.4	11.3	77	2.36	14.8
ZZ72246		0.16	0.006	0.39	8.31	19.3	1370	2.28	0.19	1.89	0.32	83.0	15.8	80	6.82	44.1
ZZ72247		0.17	0.004	0.16	8.97	17.9	2560	2.76	0.30	1.16	0.16	116.0	21.9	108	9.59	39.7
ZZ72248		0.24	0.014	0.22	7.94	22.2	4680	2.33	0.30	0.79	0.14	106.0	22.4	110	9.99	71.6
ZZ72249		0.12	0.010	0.51	7.53	23.6	5100	1.71	0.24	1.36	0.16	71.8	10.0	117	9.37	41.1
ZZ72250		0.13	0.005	0.83	7.78	23.0	4860	1.89	0.26	1.31	0.59	75.4	11.2	71	7.94	32.6
ZZ72251		0.28	0.012	0.52	6.41	19.3	1220	1.23	0.20	1.03	0.09	52.3	9.4	85	3.66	23.2
ZZ72252		0.26	0.008	0.17	6.77	20.6	1280	1.47	0.19	1.15	0.07	55.1	8.4	90	3.49	23.8
ZZ72253		0.22	0.004	0.48	6.41	11.9	1070	1.25	0.19	1.20	0.10	54.6	9.4	83	4.23	18.6
ZZ72254		0.27	0.008	0.19	6.41	16.4	1280	1.58	0.19	1.10	0.07	63.6	9.7	93	4.63	39.4
ZZ72255		0.23	0.004	0.18	6.70	12.6	1200	1.43	0.18	1.15	0.06	60.6	9.9	96	4.05	25.9
ZZ72256		0.18	0.002	2.15	6.52	7.5	1090	1.19	0.20	1.44	0.31	50.1	10.1	60	3.54	19.6
ZZ72257		0.16	0.003	0.16	6.66	23.1	1180	1.57	0.24	0.98	0.18	57.0	9.2	108	6.45	18.3
ZZ72258		0.15	0.011	0.20	6.61	21.4	1980	1.46	0.24	0.69	0.07	57.5	7.3	108	8.73	30.0
ZZ72259		0.14	0.003	0.58	5.64	11.3	2590	1.22	0.20	0.86	0.10	56.6	7.8	77	6.77	26.5
ZZ72260		0.10	0.004	0.73	7.36	21.6	3840	1.78	0.26	0.98	0.10	57.8	19.8	109	7.31	34.5
ZZ72261		0.15	0.007	0.56	7.86	79.7	6140	2.34	0.35	0.97	0.57	120.0	24.9	111	6.85	80.5
ZZ72262		0.22	0.006	0.45	8.38	58.8	6250	2.30	0.27	1.18	0.26	96.0	15.4	119	6.33	54.1
ZZ72263		0.13	0.005	0.63	8.84	34.7	5610	2.34	0.24	1.27	0.55	73.5	17.0	126	6.88	58.5
ZZ72264		0.16	0.004	0.31	8.16	24.0	5790	2.05	0.21	1.18	0.73	83.6	15.7	112	5.33	43.4
ZZ72265		0.12	0.003	0.35	8.74	22.7	3960	2.66	0.22	1.34	0.38	104.5	11.8	94	6.60	31.6
ZZ72266		0.23	0.010	0.22	10.45	72.5	1950	3.07	0.32	0.70	0.07	106.0	17.2	108	7.34	27.7
ZZ72267		0.36	0.021	0.28	9.07	56.1	2510	2.63	0.27	0.92	0.22	122.5	17.5	112	10.40	34.3
ZZ72268		0.14	0.015	0.44	9.37	69.2	2740	3.06	0.27	0.87	0.48	119.0	15.8	122	12.35	45.6
ZZ72269		0.23	0.006	0.47	10.00	31.2	2370	2.88	0.30	1.04	0.37	108.5	20.5	124	7.66	49.8
ZZ72270		0.18	0.049	0.95	8.69	93.3	2430	2.77	0.58	0.84	0.68	117.5	10.3	112	11.45	77.1
ZZ72271		0.18	0.015	0.44	9.95	56.3	1860	3.19	0.31	0.80	0.95	128.0	17.1	113	8.70	60.4
ZZ72272		0.11	0.001	0.29	6.50	16.2	1090	1.86	0.13	2.72	1.22	35.5	8.1	71	6.58	27.6
ZZ72274		0.15	0.006	0.15	6.23	19.8	1270	1.43	0.20	1.38	0.12	62.0	11.8	91	3.34	22.6
ZZ72275		0.18	0.006	0.26	5.65	37.4	1390	1.21	0.16	4.30	0.31	55.5	13.9	85	2.57	28.7
ZZ72276		0.16	0.012	2.52	5.80	51.5	5000	1.63	0.27	1.06	0.39	60.9	10.6	90	6.36	65.6
ZZ72277		0.22	0.008	0.26	5.63	88.0	1620	1.39	0.18	1.33	0.08	64.2	12.3	100	2.86	28.1
ZZ72278		0.16	0.015	4.99	5.21	345	3890	1.26	0.23	0.92	0.82	52.0	9.7	105	6.94	58.3
ZZ72279		0.20	0.049	1.30	6.67	906	2440	1.66	0.23	1.37	0.80	75.1	25.5	246	7.99	46.6
ZZ72280		0.19	0.033	1.44	8.61	420	4320	1.89	0.26	1.29	1.90	71.7	25.8	255	9.91	94.0
ZZ72281		0.15	0.003	0.19	6.30	51.7	1240	1.57	0.17	1.54	0.13	60.7	12.9	96	2.83	27.0



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72241		4.65	22.8	0.20	2.5	0.080	2.52	37.4	36.2	1.01	1340	1.41	0.58	10.1	78.9	900
ZZ72242		4.61	17.30	0.16	2.1	0.056	1.28	27.5	33.1	3.42	728	1.03	0.76	9.1	484	660
ZZ72243		5.65	19.60	0.20	1.9	0.065	0.95	28.7	38.5	3.70	1200	1.32	1.49	12.0	270	750
ZZ72244		3.80	20.9	0.22	2.6	0.061	1.98	39.2	43.0	0.94	513	1.30	1.27	15.8	40.2	460
ZZ72245		3.33	16.20	0.19	2.2	0.052	1.35	30.7	26.6	0.71	396	1.44	1.50	13.1	23.3	250
ZZ72246		3.95	22.3	0.23	3.1	0.062	2.45	45.0	41.9	0.88	793	1.59	1.18	15.8	38.2	740
ZZ72247		4.96	24.3	0.26	3.8	0.076	2.93	59.9	54.7	1.05	726	1.83	0.76	20.3	53.5	760
ZZ72248		4.71	21.6	0.26	3.5	0.070	2.41	58.7	52.3	0.90	2130	3.33	0.73	16.5	83.3	540
ZZ72249		3.56	19.95	0.19	3.1	0.055	1.86	38.9	39.5	0.66	958	1.97	1.19	12.5	45.6	560
ZZ72250		3.31	20.1	0.19	2.9	0.062	2.12	36.8	42.5	0.68	1080	2.38	1.28	14.0	37.4	910
ZZ72251		3.44	14.80	0.16	2.1	0.048	1.22	27.4	24.7	0.74	442	1.47	1.29	11.4	30.0	310
ZZ72252		3.48	15.30	0.18	2.2	0.042	1.41	30.1	25.0	0.81	438	1.28	1.51	12.5	29.2	240
ZZ72253		3.01	15.90	0.17	2.2	0.039	1.37	29.0	21.7	0.73	418	1.28	1.45	11.8	22.9	330
ZZ72254		3.42	15.35	0.20	2.5	0.048	1.37	34.9	25.7	0.73	436	1.40	1.26	11.5	37.8	290
ZZ72255		3.44	15.20	0.18	2.3	0.048	1.32	32.2	25.5	0.77	497	1.29	1.41	11.9	31.3	260
ZZ72256		2.83	16.95	0.18	2.7	0.037	1.54	26.5	20.6	0.60	1300	1.63	1.84	11.2	17.9	920
ZZ72257		3.87	17.45	0.19	2.9	0.050	1.62	30.2	30.6	0.67	542	2.36	1.16	13.1	32.0	2070
ZZ72258		3.35	17.85	0.20	2.5	0.045	1.72	31.6	27.6	0.57	314	2.67	0.94	12.6	37.8	740
ZZ72259		2.55	15.70	0.16	2.5	0.042	1.52	29.1	18.0	0.49	392	2.13	1.03	11.7	22.5	520
ZZ72260		3.96	18.60	0.18	2.5	0.056	1.78	29.6	24.8	0.67	1140	3.04	1.20	12.6	37.1	820
ZZ72261		5.39	22.0	0.27	3.2	0.083	2.24	60.8	39.3	0.72	2010	2.81	0.75	17.7	82.1	1750
ZZ72262		4.36	21.5	0.24	3.0	0.074	2.24	50.5	40.3	0.88	728	1.52	1.04	13.6	44.9	820
ZZ72263		4.04	24.2	0.22	2.9	0.070	2.39	41.4	40.6	0.87	1150	1.39	1.08	14.0	45.7	780
ZZ72264		3.96	20.2	0.23	2.7	0.062	2.23	44.9	34.7	0.83	713	1.28	1.01	11.8	41.7	850
ZZ72265		3.55	23.4	0.27	2.8	0.073	2.59	55.3	36.0	0.69	569	1.14	0.72	16.5	37.1	740
ZZ72266		4.10	29.1	0.25	3.5	0.088	3.24	53.2	48.0	0.74	426	0.86	1.05	18.8	38.9	490
ZZ72267		4.17	24.2	0.27	3.5	0.073	2.61	62.8	40.7	0.68	572	1.36	0.93	17.9	47.1	950
ZZ72268		3.86	27.3	0.27	4.3	0.083	3.23	62.9	38.2	0.51	456	3.80	0.32	22.1	58.3	1840
ZZ72269		4.60	26.5	0.25	3.8	0.078	3.04	56.2	48.6	1.01	709	1.37	1.03	20.2	55.6	970
ZZ72270		3.39	26.2	0.26	4.0	0.081	3.38	64.0	22.5	0.48	452	9.09	0.36	18.7	38.5	1620
ZZ72271		3.85	28.5	0.31	3.6	0.089	3.36	66.6	40.6	0.69	467	2.63	0.79	18.7	45.9	880
ZZ72272		1.68	16.75	0.18	1.9	0.055	2.04	18.9	21.3	0.59	366	0.77	0.57	11.0	21.3	690
ZZ72274		3.48	14.25	0.19	1.9	0.048	1.40	30.8	22.9	0.77	577	1.21	1.35	10.7	39.6	260
ZZ72275		3.18	12.40	0.17	1.8	0.051	1.36	28.7	19.5	1.30	620	0.90	1.36	9.5	63.5	1060
ZZ72276		2.96	15.75	0.23	2.4	0.109	1.57	31.2	31.1	0.70	450	2.43	0.96	9.7	58.5	400
ZZ72277		3.20	13.20	0.21	2.1	0.047	1.32	35.0	17.9	0.85	439	1.15	1.31	9.5	71.8	250
ZZ72278		3.18	13.95	0.18	2.0	0.895	1.40	26.7	18.4	0.66	479	2.22	0.82	9.1	72.5	650
ZZ72279		4.43	16.05	0.20	2.1	0.122	1.65	36.9	26.4	2.27	1160	1.61	1.12	11.1	230	530
ZZ72280		4.88	20.1	0.21	2.6	0.267	1.94	37.8	50.4	1.83	862	1.71	1.14	11.1	210	720
ZZ72281		3.40	14.85	0.18	2.1	0.038	1.28	31.1	28.1	0.95	793	1.22	1.47	11.1	42.5	220



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Sample Description	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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOR	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72241		18.2	130.5	<0.002	0.03	3.86	28.4	2	3.6	103.5	0.73	0.10	10.3	0.431	0.83	2.5
ZZ72242		16.6	70.2	<0.002	0.02	6.53	17.9	2	2.4	143.0	0.67	0.05	7.7	0.328	0.49	2.3
ZZ72243		13.6	52.0	<0.002	0.01	3.02	24.9	3	2.6	164.5	0.87	0.05	7.0	0.630	0.34	1.4
ZZ72244		19.0	104.5	0.002	0.01	1.83	15.4	1	2.2	230	1.04	<0.05	9.9	0.466	0.72	2.5
ZZ72245		20.4	51.8	0.002	0.01	1.21	12.2	<1	2.2	247	0.86	<0.05	7.4	0.462	0.51	1.8
ZZ72246		21.0	111.0	0.003	0.04	1.43	15.6	1	2.1	291	1.03	<0.05	11.1	0.467	0.68	2.7
ZZ72247		28.2	145.5	0.002	0.02	2.03	19.9	1	2.8	166.5	1.40	<0.05	16.4	0.587	0.84	3.0
ZZ72248		27.2	130.5	0.002	0.03	3.11	19.1	2	2.3	150.0	1.07	0.05	14.8	0.492	0.77	3.6
ZZ72249		22.0	97.5	<0.002	0.03	3.24	15.1	1	2.0	300	0.81	<0.05	9.0	0.457	0.88	3.1
ZZ72250		21.5	112.5	0.002	0.01	2.35	12.7	1	2.4	268	0.96	<0.05	10.9	0.424	0.92	2.5
ZZ72251		16.0	63.6	0.002	0.01	1.81	11.5	1	1.8	211	0.77	<0.05	7.0	0.428	0.54	2.1
ZZ72252		18.9	67.5	0.002	0.01	1.83	12.7	1	1.8	233	0.85	<0.05	8.4	0.434	0.53	2.5
ZZ72253		14.1	83.2	0.002	0.01	1.24	11.6	1	1.7	238	0.78	<0.05	6.8	0.449	0.53	2.1
ZZ72254		13.7	74.5	<0.002	0.01	1.81	15.2	1	1.7	217	0.75	<0.05	9.2	0.409	0.49	2.6
ZZ72255		14.0	66.3	0.003	0.01	1.40	13.0	1	1.7	229	0.79	<0.05	8.8	0.434	0.52	2.3
ZZ72256		13.1	69.4	0.006	0.01	0.98	8.9	<1	1.5	331	0.75	<0.05	6.4	0.417	0.49	2.1
ZZ72257		17.3	111.0	0.003	0.01	1.40	13.4	2	1.9	193.5	0.86	<0.05	8.3	0.472	0.59	2.5
ZZ72258		17.1	121.0	0.003	0.02	1.79	13.8	2	1.9	165.0	0.84	0.05	8.0	0.413	0.72	2.5
ZZ72259		14.3	95.5	0.002	0.01	1.26	11.3	1	1.7	182.0	0.80	<0.05	7.9	0.410	0.59	2.2
ZZ72260		17.6	112.0	0.004	0.01	1.79	14.0	2	2.0	206	0.81	0.06	8.4	0.468	0.75	2.6
ZZ72261		28.2	121.0	0.006	0.02	2.19	18.7	2	2.2	172.5	1.14	0.10	13.1	0.515	0.76	2.7
ZZ72262		25.2	117.5	0.004	0.03	1.75	21.5	1	2.3	195.5	0.89	0.05	13.3	0.428	1.62	3.1
ZZ72263		24.9	123.5	0.007	0.03	1.43	22.6	1	2.3	224	1.04	<0.05	10.3	0.451	2.40	2.6
ZZ72264		23.4	111.0	0.003	0.03	1.25	19.3	2	1.9	191.0	0.76	0.05	11.8	0.378	2.30	2.3
ZZ72265		18.8	142.0	0.004	0.05	1.29	18.1	1	2.5	180.5	1.05	<0.05	13.0	0.458	1.39	2.7
ZZ72266		21.8	161.5	0.008	0.01	1.50	21.2	1	3.0	171.0	1.24	0.05	15.8	0.539	1.04	2.5
ZZ72267		22.1	130.0	0.006	0.01	1.74	19.1	1	2.5	198.5	1.20	<0.05	16.3	0.536	0.98	2.8
ZZ72268		17.2	169.5	0.004	0.03	4.75	19.6	2	3.5	176.5	1.44	0.08	18.0	0.577	1.18	3.8
ZZ72269		19.6	146.5	0.004	0.02	1.72	20.2	1	2.6	189.0	1.31	<0.05	15.8	0.615	0.94	3.2
ZZ72270		50.8	173.5	0.005	0.04	2.79	17.3	3	2.7	184.0	1.25	0.41	21.5	0.455	1.22	4.9
ZZ72271		108.0	167.0	0.006	0.01	1.84	21.2	2	2.8	162.5	1.20	0.10	17.9	0.527	1.07	3.6
ZZ72272		51.5	106.0	0.005	0.11	0.85	12.8	1	1.8	195.0	0.70	<0.05	6.6	0.324	0.63	1.8
ZZ72274		17.9	63.8	0.006	0.01	1.57	13.5	1	1.8	235	0.72	<0.05	8.8	0.395	0.52	1.7
ZZ72275		31.0	58.0	0.005	0.04	2.08	12.5	1	2.0	322	0.64	<0.05	7.8	0.365	0.41	1.7
ZZ72276		387	99.7	0.006	0.02	8.02	15.5	1	5.4	183.0	0.65	0.07	8.7	0.340	0.87	2.0
ZZ72277		37.8	67.0	0.004	0.02	2.25	13.7	<1	12.5	240	0.65	<0.05	9.1	0.365	0.45	1.9
ZZ72278		1460	85.8	0.002	0.08	14.80	11.9	2	51.2	208	0.57	0.05	7.1	0.306	0.67	1.8
ZZ72279		208	91.0	0.004	0.06	13.90	18.1	1	16.8	235	0.74	0.07	9.1	0.404	0.58	2.1
ZZ72280		220	104.5	0.004	0.03	11.85	23.9	1	13.2	215	0.75	0.07	10.8	0.438	0.65	2.0
ZZ72281		16.2	58.1	<0.002	0.01	1.18	13.7	1	1.7	262	0.80	<0.05	9.4	0.407	0.45	1.9



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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72241		209	2.5	15.7	124	93.7
ZZ72242		142	1.3	12.4	109	77.3
ZZ72243		185	1.2	29.2	118	71.2
ZZ72244		137	1.3	14.7	99	89.8
ZZ72245		115	1.1	10.9	71	86.0
ZZ72246		112	1.0	14.8	94	110.0
ZZ72247		154	1.7	17.8	121	127.0
ZZ72248		166	1.9	18.3	151	121.0
ZZ72249		162	1.8	14.3	150	111.5
ZZ72250		151	1.4	16.9	125	97.6
ZZ72251		134	1.4	12.1	64	75.5
ZZ72252		134	1.3	15.5	66	74.6
ZZ72253		129	1.5	12.5	61	79.4
ZZ72254		138	1.2	21.8	69	90.4
ZZ72255		135	1.2	14.8	64	76.6
ZZ72256		103	1.1	12.1	102	97.3
ZZ72257		167	1.7	13.3	82	95.7
ZZ72258		158	1.9	13.3	75	89.5
ZZ72259		130	1.5	11.0	58	87.3
ZZ72260		171	1.6	12.8	99	91.2
ZZ72261		162	2.4	20.6	156	127.5
ZZ72262		164	2.2	17.7	148	103.5
ZZ72263		171	1.9	17.3	190	103.5
ZZ72264		139	1.4	13.9	116	92.3
ZZ72265		128	1.8	16.9	101	95.8
ZZ72266		136	2.2	13.7	98	118.0
ZZ72267		166	2.2	16.8	120	119.5
ZZ72268		269	4.4	16.6	204	151.5
ZZ72269		188	1.9	17.9	148	132.5
ZZ72270		362	5.4	14.6	292	142.0
ZZ72271		187	2.4	17.0	524	127.5
ZZ72272		90	1.4	7.5	303	68.0
ZZ72274		122	1.4	16.4	82	69.4
ZZ72275		109	1.0	16.5	79	61.6
ZZ72276		138	1.8	14.6	110	83.5
ZZ72277		118	1.7	19.7	56	73.3
ZZ72278		135	3.5	9.4	326	72.6
ZZ72279		148	3.3	16.2	191	73.2
ZZ72280		179	3.4	15.8	540	88.6
ZZ72281		110	1.3	14.4	65	68.1



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72282		0.24	0.003	0.17	7.67	8.7	1080	2.11	0.32	1.19	0.15	79.1	15.2	88	4.68	31.7
ZZ72283		0.15	0.001	0.22	6.10	13.4	1090	1.53	0.18	1.26	0.12	56.3	28.1	228	3.08	20.0
ZZ72284		0.19	0.006	0.15	5.57	11.7	940	1.25	0.13	1.35	0.08	53.1	25.5	184	3.06	19.8
ZZ72285		0.29	0.005	0.13	5.61	14.9	1000	1.42	0.15	1.59	0.10	58.8	18.7	128	2.37	25.4
ZZ72286		0.18	0.004	0.13	5.76	11.0	1050	1.28	0.14	1.43	0.09	53.6	17.2	141	5.30	17.5
ZZ72287		0.26	0.003	0.20	5.92	11.9	1200	1.27	0.15	1.50	0.09	56.2	14.4	135	3.82	34.1
ZZ72288		0.21	0.009	0.28	6.67	23.8	2330	1.20	0.12	1.68	0.11	57.9	35.1	428	3.90	90.1
ZZ72289		0.13	0.006	0.43	6.38	58.6	3450	1.48	0.15	1.31	0.47	58.0	17.9	212	5.24	71.1
ZZ72290		0.23	0.018	0.66	6.76	114.0	1550	1.59	0.14	1.39	0.36	71.9	20.8	217	4.93	39.3
ZZ72291		0.22	0.021	0.49	6.73	118.0	1570	1.03	0.12	1.46	0.47	53.1	42.2	881	4.88	62.7
ZZ72292		0.16	0.027	0.98	4.83	602	1220	1.13	0.08	2.79	8.67	42.0	101.0	2380	5.47	71.3
ZZ72293		0.26	0.010	0.23	5.28	99.4	1210	1.13	0.10	0.90	0.18	42.0	43.2	859	3.11	44.2
ZZ72294		0.15	0.010	0.24	6.68	71.9	1330	1.51	0.15	1.31	0.24	73.7	20.3	199	4.82	49.1
ZZ72295		0.22	0.050	0.35	8.71	483	1470	2.34	0.19	0.95	0.33	121.0	19.5	103	7.74	36.5
ZZ72296		0.24	0.002	0.10	8.41	20.0	1070	2.24	0.16	0.86	0.05	123.0	20.4	99	5.99	35.2
ZZ72297		0.17	0.005	0.19	5.96	25.3	920	1.17	0.13	1.43	0.09	50.0	10.7	70	1.95	15.7
ZZ72298		0.19	0.007	0.30	9.39	37.9	2830	2.92	0.24	0.52	0.46	120.5	20.3	112	11.15	39.1
ZZ72299		0.10	0.011	0.26	6.15	47.2	1580	2.15	0.13	2.24	0.16	71.7	12.5	78	9.54	34.7
ZZ72300		0.11	0.006	0.46	8.60	33.0	7350	2.86	0.45	0.49	0.33	135.0	15.3	79	13.05	60.2
ZZ72301		0.14	0.008	0.32	9.16	23.8	7800	3.31	0.35	0.32	0.52	124.0	21.7	103	17.85	38.6
ZZ72302		0.18	0.012	0.16	6.72	35.6	6110	1.72	0.16	0.75	0.14	73.5	9.6	99	8.81	41.7
ZZ72303		0.21	0.032	0.27	5.60	42.8	7960	1.67	0.21	0.52	0.19	75.5	16.4	84	7.33	85.2
ZZ72304		0.09	0.012	0.32	5.46	26.5	3320	1.24	0.15	0.84	0.08	69.6	9.6	79	4.80	25.7
ZZ72305		0.24	0.005	0.40	6.16	24.5	2300	1.37	0.15	1.04	0.11	63.4	9.9	80	4.38	26.2
ZZ72306		0.30	0.006	0.32	6.35	20.0	1480	1.30	0.16	1.29	0.20	56.8	11.9	79	3.37	23.7
ZZ72307		0.26	0.011	0.25	5.94	28.3	1430	1.44	0.16	0.93	0.15	66.2	8.5	75	4.20	39.0
ZZ72308		0.17	0.005	0.14	5.56	30.4	1160	1.14	0.13	0.85	0.18	53.2	7.8	74	3.73	22.0
ZZ72309		0.16	0.008	0.32	5.87	50.7	1760	1.36	0.17	0.71	0.16	64.1	7.2	80	6.74	28.1
ZZ72310		0.22	0.004	0.32	5.99	39.0	1360	1.38	0.15	0.93	0.11	57.0	9.1	76	4.79	31.5
ZZ72311		0.25	0.006	0.32	5.88	59.0	1200	1.39	0.14	0.74	0.08	63.5	8.0	86	6.53	32.7
ZZ72312		0.09	0.015	0.84	5.59	45.3	1220	1.47	0.19	1.45	1.52	65.6	10.8	100	6.64	49.9
ZZ72313		0.12	0.007	1.47	5.52	15.3	1180	1.39	0.15	2.00	0.45	59.5	9.6	97	6.19	81.7
ZZ72314		0.09	NSS	0.17	0.94	2.0	760	0.28	0.03	4.53	0.18	7.07	1.7	21	1.63	14.2
ZZ72315		0.13	0.018	0.60	4.57	81.2	7270	1.56	0.28	0.48	0.18	84.7	13.5	90	6.69	94.9
ZZ72316		0.10	0.015	0.60	6.56	45.7	4530	1.89	0.16	2.49	0.34	38.2	9.8	117	8.80	60.4
ZZ72317		0.14	0.032	0.63	6.94	183.0	7810	2.11	0.21	1.49	0.38	70.9	19.0	149	8.75	75.5
ZZ72318		0.14	0.012	0.35	7.17	77.6	7470	2.01	0.21	1.47	0.25	82.5	11.9	111	6.77	58.7
ZZ72319		0.19	0.009	0.29	8.07	79.9	5870	2.13	0.21	1.19	0.37	82.5	18.2	131	7.42	42.5
ZZ72320		0.10	0.004	0.19	7.77	34.3	4630	1.87	0.18	1.12	0.60	86.7	15.3	118	6.57	33.8
ZZ72321		0.24	0.008	0.31	7.92	57.7	5080	2.40	0.43	1.14	0.41	113.5	16.0	118	7.90	47.9



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
ZZ72282		3.96	18.40	0.22	2.9	0.051	1.58	38.8	40.3	0.90	518	2.34	1.50	13.6	46.6	480
ZZ72283		3.85	15.00	0.19	1.9	0.040	1.15	28.1	26.2	2.01	685	0.94	1.10	11.6	229	270
ZZ72284		3.46	13.10	0.20	1.7	0.031	1.17	26.0	20.9	1.78	751	0.91	1.38	10.0	278	200
ZZ72285		3.37	13.10	0.19	1.7	0.034	1.06	32.0	20.9	1.36	549	0.87	1.37	10.5	193.5	160
ZZ72286		3.28	13.20	0.18	1.7	0.034	1.18	26.6	20.2	1.01	659	0.86	1.44	10.2	112.0	180
ZZ72287		3.37	13.50	0.19	1.7	0.035	1.15	29.1	21.4	0.89	780	1.04	1.39	10.5	70.7	170
ZZ72288		5.13	18.15	0.23	2.1	0.059	0.97	27.0	36.3	2.63	1540	1.08	1.25	11.9	315	660
ZZ72289		3.49	16.45	0.21	2.5	0.045	1.67	33.6	26.7	1.25	1500	1.49	0.94	9.7	161.5	540
ZZ72290		4.25	16.40	0.24	2.1	0.077	1.52	39.3	25.2	1.25	1080	1.12	1.28	11.5	131.0	280
ZZ72291		5.96	16.50	0.27	2.1	0.064	1.00	28.7	42.9	4.78	990	1.03	0.96	11.4	654	750
ZZ72292		6.53	12.45	0.23	1.3	0.317	0.81	20.5	30.1	6.08	3140	1.05	0.39	7.2	1050	600
ZZ72293		5.10	13.10	0.22	1.5	0.042	0.90	23.2	29.8	7.28	841	0.70	0.70	7.3	774	720
ZZ72294		4.26	16.75	0.24	2.4	0.076	1.58	38.5	29.2	1.93	1080	1.44	1.18	13.6	158.0	440
ZZ72295		4.74	22.9	0.29	2.9	0.093	2.67	59.9	35.0	0.82	776	1.11	0.91	17.0	45.1	530
ZZ72296		5.11	23.2	0.31	3.2	0.071	2.17	64.1	43.4	1.02	436	0.87	1.24	17.7	44.6	360
ZZ72297		2.96	13.80	0.18	1.7	0.033	1.12	25.1	21.4	0.68	613	1.12	1.43	11.3	24.3	200
ZZ72298		4.70	27.2	0.32	4.1	0.168	2.59	59.5	46.2	0.71	519	2.31	0.51	25.8	56.8	580
ZZ72299		2.68	19.55	0.22	2.2	0.059	2.26	39.3	37.3	0.60	813	0.83	0.20	16.6	33.7	770
ZZ72300		3.99	25.4	0.33	4.1	0.097	3.07	67.4	64.8	0.62	453	4.41	0.58	20.8	58.4	640
ZZ72301		5.04	29.1	0.33	4.9	0.100	3.67	59.3	82.3	0.70	502	5.53	0.15	28.9	71.6	1230
ZZ72302		2.94	18.35	0.22	2.5	0.053	1.86	38.5	32.7	0.61	1190	1.52	0.83	13.8	45.2	560
ZZ72303		3.84	17.35	0.25	2.9	0.060	1.55	37.5	31.8	0.54	4730	2.25	0.52	9.9	113.0	670
ZZ72304		2.73	14.55	0.22	2.2	0.038	1.20	36.1	23.9	0.56	663	1.19	0.91	10.3	34.7	420
ZZ72305		3.15	14.90	0.21	2.1	0.038	1.32	34.4	23.3	0.73	594	1.08	1.28	11.5	32.9	440
ZZ72306		3.17	14.40	0.20	1.9	0.039	1.34	28.5	22.0	0.73	573	1.13	1.35	11.4	31.4	660
ZZ72307		2.99	14.85	0.22	2.3	0.050	1.17	36.2	21.2	0.66	450	1.22	1.20	11.3	34.5	340
ZZ72308		2.77	13.80	0.20	2.2	0.034	1.13	29.1	20.7	0.60	374	1.07	1.14	11.2	31.2	290
ZZ72309		2.70	15.60	0.21	2.5	0.042	1.33	35.1	27.7	0.55	554	1.49	0.93	11.6	33.2	440
ZZ72310		2.95	14.85	0.21	2.1	0.037	1.22	30.7	23.8	0.65	449	1.17	1.23	11.0	30.9	360
ZZ72311		2.92	15.70	0.23	2.5	0.043	1.38	34.1	27.8	0.61	429	1.24	0.93	11.7	36.4	440
ZZ72312		3.08	14.35	0.23	2.6	0.089	1.35	36.7	24.1	0.55	706	1.39	0.87	10.7	48.0	830
ZZ72313		2.84	14.25	0.23	2.4	0.038	1.25	36.3	20.7	0.49	1220	1.04	0.92	9.6	53.4	1050
ZZ72314		0.42	2.57	0.10	0.4	<0.005	0.25	4.0	3.6	0.24	126	0.95	0.11	2.0	9.8	650
ZZ72315		2.89	15.25	0.25	2.9	0.048	1.44	44.6	17.8	0.35	2260	2.92	0.29	9.5	76.8	970
ZZ72316		2.66	18.45	0.13	2.4	0.060	1.95	21.9	26.9	0.61	1340	1.40	0.61	9.2	45.8	1010
ZZ72317		4.15	20.4	0.14	3.1	0.069	2.33	37.3	27.1	0.79	4280	2.15	0.51	8.8	88.4	980
ZZ72318		3.45	19.80	0.17	2.8	0.067	2.19	43.7	29.4	0.67	916	1.28	0.56	11.5	51.8	1030
ZZ72319		4.77	21.1	0.15	2.5	0.077	2.16	42.3	33.9	1.01	1250	1.30	1.02	10.9	57.0	650
ZZ72320		3.88	20.0	0.17	2.6	0.070	2.13	44.1	30.2	0.88	975	1.24	1.03	11.4	41.2	650
ZZ72321		4.78	21.9	0.23	3.1	0.078	2.33	59.7	31.7	0.78	898	1.44	0.80	12.7	51.4	840



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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOR	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72282		22.5	90.0	<0.002	0.02	1.37	14.5	2	2.2	232	0.94	0.09	11.9	0.436	0.55	2.3
ZZ72283		13.6	59.0	<0.002	0.01	2.12	14.8	1	1.8	195.0	0.77	<0.05	9.0	0.393	0.50	1.6
ZZ72284		12.8	62.1	<0.002	0.01	2.40	13.6	1	1.4	238	0.67	<0.05	7.4	0.367	0.40	1.5
ZZ72285		13.4	50.6	<0.002	0.01	1.69	13.6	2	1.5	239	0.71	<0.05	8.4	0.374	0.40	1.6
ZZ72286		13.5	56.6	<0.002	0.01	1.80	13.1	1	1.5	245	0.69	<0.05	7.6	0.368	0.41	1.6
ZZ72287		15.0	56.7	<0.002	0.01	5.58	13.7	2	1.5	250	0.71	0.05	8.2	0.380	0.41	1.7
ZZ72288		12.3	36.1	<0.002	0.01	5.38	22.8	2	2.9	121.0	0.80	0.05	7.4	0.561	0.37	1.5
ZZ72289		11.8	85.3	<0.002	0.02	5.47	14.3	2	3.0	267	0.62	0.05	7.9	0.343	0.54	2.1
ZZ72290		164.0	77.2	<0.002	0.01	5.40	18.7	2	6.7	231	0.80	<0.05	10.1	0.453	0.55	2.0
ZZ72291		34.4	57.0	<0.002	0.02	5.69	23.7	2	2.9	145.0	0.73	<0.05	7.3	0.539	0.40	1.7
ZZ72292		777	51.0	<0.002	0.03	266	24.0	2	17.5	185.5	0.45	0.05	5.0	0.361	0.44	1.4
ZZ72293		13.6	49.2	<0.002	0.02	9.07	20.5	1	2.0	112.5	0.47	<0.05	5.9	0.370	0.32	1.5
ZZ72294		36.4	80.6	<0.002	0.02	5.60	17.5	2	4.4	194.0	0.90	<0.05	10.2	0.492	0.54	2.1
ZZ72295		53.7	139.5	<0.002	0.02	5.21	17.5	2	9.3	180.0	1.10	<0.05	17.1	0.473	0.83	3.0
ZZ72296		19.8	115.5	<0.002	0.01	1.75	19.1	2	2.7	151.5	1.18	<0.05	15.0	0.525	0.67	2.6
ZZ72297		13.6	44.7	<0.002	0.01	1.16	10.8	1	1.9	247	0.78	<0.05	7.1	0.393	0.43	1.7
ZZ72298		60.8	152.0	<0.002	0.02	3.48	19.5	2	5.8	142.5	1.58	0.06	16.3	0.570	1.03	3.0
ZZ72299		19.1	124.0	<0.002	0.08	2.24	16.1	2	2.3	180.0	1.03	<0.05	10.3	0.382	0.72	3.3
ZZ72300		32.6	155.5	<0.002	0.03	3.67	16.6	3	4.7	131.0	1.38	0.11	20.0	0.420	1.22	3.9
ZZ72301		31.0	175.5	<0.002	0.02	3.71	18.9	3	4.8	103.5	1.88	0.10	19.0	0.689	1.61	4.8
ZZ72302		18.9	104.5	<0.002	0.01	3.26	15.9	2	2.5	189.5	0.88	0.06	10.2	0.432	0.70	2.6
ZZ72303		22.6	99.4	<0.002	0.01	4.23	15.9	3	2.1	167.5	0.68	0.14	10.0	0.302	0.66	2.9
ZZ72304		14.2	73.2	<0.002	0.01	2.09	11.8	2	2.1	192.5	0.70	0.06	8.8	0.346	0.56	2.2
ZZ72305		13.6	80.5	<0.002	0.01	1.76	12.1	2	2.0	220	0.79	0.05	9.0	0.386	0.53	2.3
ZZ72306		14.2	67.1	<0.002	0.01	1.38	11.6	2	1.8	232	0.77	0.05	8.1	0.401	0.48	2.0
ZZ72307		19.5	72.0	<0.002	0.01	1.77	13.1	2	2.1	215	0.76	<0.05	9.9	0.356	0.53	3.1
ZZ72308		16.2	67.4	<0.002	0.01	1.69	10.7	2	1.8	197.5	0.74	<0.05	7.9	0.360	0.47	2.2
ZZ72309		17.3	87.6	<0.002	0.01	2.03	12.2	2	2.1	187.5	0.76	0.06	8.9	0.353	0.57	2.5
ZZ72310		15.6	74.1	<0.002	0.01	1.55	12.2	2	1.7	219	0.74	0.05	8.3	0.345	0.51	2.3
ZZ72311		14.1	87.4	<0.002	0.01	1.71	13.1	2	2.0	186.0	0.75	0.05	8.5	0.362	0.52	2.3
ZZ72312		68.0	82.3	<0.002	0.03	3.52	13.6	3	2.3	194.5	0.70	0.07	9.7	0.336	0.56	3.1
ZZ72313		13.0	73.9	<0.002	0.04	1.66	13.2	3	1.7	237	0.62	0.05	8.6	0.305	0.53	2.9
ZZ72314		2.2	16.1	<0.002	0.21	0.50	2.4	2	0.3	160.0	0.12	<0.05	1.2	0.062	0.12	1.4
ZZ72315		19.8	96.9	<0.002	0.02	3.74	14.0	3	1.9	144.0	0.61	0.15	11.9	0.268	0.61	2.6
ZZ72316		14.9	115.5	<0.002	0.09	1.92	17.4	1	2.3	188.0	0.64	0.07	6.6	0.336	0.96	2.8
ZZ72317		21.1	142.5	<0.002	0.06	3.36	22.4	2	4.6	185.0	0.61	0.09	9.9	0.324	1.42	2.7
ZZ72318		16.2	127.0	<0.002	0.06	1.90	17.9	2	2.0	153.5	0.81	0.08	10.3	0.386	1.03	2.4
ZZ72319		42.1	117.0	<0.002	0.03	1.48	22.7	1	2.1	164.0	0.78	0.10	11.4	0.391	1.42	2.1
ZZ72320		20.2	114.0	<0.002	0.02	1.34	18.9	1	2.1	166.5	0.82	<0.05	10.2	0.438	1.46	2.2
ZZ72321		22.7	129.5	<0.002	0.04	1.61	23.3	2	2.3	151.0	0.92	0.06	15.1	0.443	1.58	3.0



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ72282		106	1.7	14.6	85	98.0
ZZ72283		107	1.3	13.7	79	65.0
ZZ72284		105	1.4	12.5	59	59.7
ZZ72285		114	1.1	19.4	60	60.2
ZZ72286		108	1.2	13.3	60	59.7
ZZ72287		113	1.2	16.4	59	58.6
ZZ72288		177	1.0	23.4	102	75.8
ZZ72289		118	1.2	16.1	95	96.9
ZZ72290		141	1.5	22.2	143	75.2
ZZ72291		174	1.4	21.5	142	79.2
ZZ72292		150	1.4	14.9	1380	46.0
ZZ72293		131	1.0	15.1	98	52.2
ZZ72294		134	1.5	18.6	122	84.5
ZZ72295		118	2.2	15.1	155	102.5
ZZ72296		127	2.1	16.7	89	108.0
ZZ72297		104	1.3	10.1	54	58.8
ZZ72298		157	2.5	16.8	164	145.5
ZZ72299		93	1.2	11.9	79	81.3
ZZ72300		189	2.1	15.0	148	140.0
ZZ72301		215	2.9	17.3	217	175.0
ZZ72302		149	1.8	14.0	106	96.3
ZZ72303		130	1.8	12.7	172	105.5
ZZ72304		110	1.4	10.2	83	78.5
ZZ72305		118	1.9	12.3	96	72.1
ZZ72306		127	1.4	11.0	85	65.5
ZZ72307		110	1.4	16.9	66	80.7
ZZ72308		107	1.3	11.0	70	74.4
ZZ72309		114	1.5	12.7	74	94.2
ZZ72310		110	1.3	12.1	71	75.2
ZZ72311		117	1.5	11.8	81	87.8
ZZ72312		115	1.4	21.9	170	94.4
ZZ72313		104	1.2	22.3	76	92.8
ZZ72314		22	0.3	1.9	22	14.1
ZZ72315		112	2.3	12.7	129	107.5
ZZ72316		151	2.3	16.2	81	95.3
ZZ72317		169	2.8	16.4	133	118.5
ZZ72318		148	2.3	12.7	133	103.5
ZZ72319		159	2.2	11.8	146	93.2
ZZ72320		156	1.8	10.5	144	94.0
ZZ72321		166	2.2	18.1	150	112.5



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72322		0.18	0.006	0.30	8.26	34.4	4740	2.30	0.21	1.62	0.74	84.5	13.5	111	8.51	57.4
ZZ72323		0.23	0.008	0.47	9.38	35.2	4410	2.81	0.23	1.04	0.27	99.9	13.9	118	8.38	47.6
ZZ72324		0.17	0.019	0.15	7.82	46.1	6680	2.03	0.21	0.87	0.18	120.0	12.1	116	6.68	34.8
ZZ72325		0.18	0.009	0.24	7.96	41.5	3980	2.22	0.23	1.06	0.33	127.0	14.2	103	6.70	49.2
ZZ72326		0.16	0.022	0.60	6.39	194.0	3380	1.72	0.20	1.22	1.20	68.6	11.8	111	9.39	54.2
ZZ72327		0.16	0.008	0.85	7.02	125.5	7580	2.13	0.30	0.80	2.27	73.9	10.8	91	8.94	51.6
ZZ72328		0.11	0.042	1.69	7.28	266	9230	2.42	0.32	0.80	0.88	98.2	5.6	84	11.35	39.2
ZZ72329		0.17	0.003	0.35	6.27	33.4	2240	1.48	0.17	1.53	0.22	59.3	11.6	81	2.91	26.9
ZZ72330		0.15	0.016	0.63	4.56	345	4760	1.39	0.25	0.57	0.19	50.9	6.8	48	7.99	86.6
ZZ72331		0.14	0.019	0.24	4.91	44.6	1110	1.20	0.13	1.11	0.17	45.4	57.8	607	3.08	24.1
ZZ72332		0.12	0.003	0.28	6.31	44.5	2500	1.40	0.19	1.42	0.26	63.7	12.6	96	4.35	29.5
ZZ72333		0.21	0.007	0.20	6.81	47.2	2460	1.57	0.18	1.39	0.15	66.8	13.5	118	4.89	28.6
ZZ72334		0.07	0.006	0.36	6.53	226	5400	1.55	0.18	1.37	0.31	66.9	13.4	108	5.91	36.5
ZZ72335		0.15	0.006	0.13	5.68	86.9	1430	1.27	0.14	2.08	0.24	54.3	49.6	615	5.01	32.2
ZZ72336		0.14	0.009	0.20	6.70	20.0	4160	1.75	0.15	4.45	0.20	76.7	31.0	256	8.61	72.2
ZZ72337		0.17	0.004	0.12	8.34	25.8	3740	1.80	0.16	1.12	0.13	74.0	19.0	131	6.67	55.5
ZZ72338		0.09	0.006	0.15	8.08	41.3	2720	1.26	0.07	4.21	0.09	26.3	52.1	937	3.13	67.2
ZZ72339		0.14	0.010	0.23	7.48	101.5	1490	1.85	0.16	1.28	0.20	84.9	32.8	387	5.73	37.4
ZZ72340		0.15	0.002	0.21	6.65	29.4	1200	1.47	0.16	1.39	0.16	62.8	14.6	107	2.72	18.0
ZZ72341		0.17	0.005	0.15	7.33	37.2	1360	1.68	0.14	1.62	0.24	81.0	18.1	105	4.65	29.8
ZZ72342		0.22	0.002	0.11	10.80	12.9	1640	3.27	0.19	0.44	0.04	104.0	18.1	110	11.75	21.5
ZZ72343		0.28	0.003	0.09	6.97	20.5	1080	1.78	0.17	1.29	0.07	75.8	14.9	94	3.73	29.6
ZZ72344		0.19	0.011	0.56	8.32	85.8	1560	2.10	0.14	1.54	2.45	102.5	27.0	161	7.98	43.6
ZZ72345		0.09	0.015	0.65	10.10	49.9	4340	2.87	0.24	1.11	3.38	106.5	21.3	171	20.5	36.2
ZZ72346		0.09	0.034	0.34	7.47	303	6060	2.19	0.26	0.63	0.41	108.0	16.5	131	13.10	63.5
ZZ72347		0.19	0.010	0.23	7.95	126.5	4630	2.11	0.24	1.00	0.13	100.0	13.7	91	8.74	31.9
ZZ72348		0.25	0.007	0.29	6.30	51.4	2360	1.46	0.16	1.51	0.18	62.7	11.7	81	4.31	29.1
ZZ72349		0.12	0.020	0.41	6.80	203	3580	1.86	0.20	1.13	0.30	82.4	17.0	98	8.47	66.8
ZZ72350		0.24	0.002	0.14	6.36	13.8	1560	1.38	0.15	1.65	0.14	62.1	11.3	74	2.62	24.7
ZZ72351		0.21	0.063	0.33	10.40	203	1860	3.33	0.30	0.27	0.12	138.0	20.6	115	12.05	35.8
ZZ72352		0.11	0.023	0.17	10.25	130.0	1870	3.21	0.33	0.22	0.07	127.0	24.3	127	13.60	44.0
ZZ72353		0.20	0.006	0.42	8.47	45.1	1550	2.46	0.27	0.70	0.29	75.6	17.4	130	8.34	28.1
ZZ72354		0.09	0.015	1.27	7.95	31.7	1180	1.43	0.26	1.54	0.83	63.0	11.0	64	3.61	19.8
ZZ72355		0.30	0.002	0.17	8.73	15.1	1380	2.32	0.28	0.96	0.09	92.7	20.8	137	5.62	30.3
ZZ72356		0.23	0.002	0.26	8.23	11.4	1330	2.13	0.28	1.02	0.17	63.9	20.3	112	4.85	30.7
ZZ72357		0.15	0.005	0.38	10.30	13.8	2280	2.95	0.34	1.28	0.24	154.5	21.7	154	13.60	46.1
ZZ72358		0.18	0.020	0.28	7.74	15.7	3000	1.80	0.26	1.02	0.18	87.2	11.0	87	6.80	21.4
ZZ72359		0.19	0.005	0.36	7.83	15.0	1860	2.13	0.27	0.64	0.23	101.5	19.1	128	7.65	38.6
ZZ72360		0.24	0.008	0.33	4.81	18.6	6330	2.93	0.32	0.52	0.21	70.8	12.7	77	7.74	36.8
ZZ72361		0.21	0.006	0.22	7.03	16.4	5190	1.63	0.26	0.75	0.20	74.2	12.9	98	7.31	46.3



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Sample Description	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	
	Analyte Units LOR	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	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
ZZ72322		3.82	22.2	0.17	2.7	0.075	2.44	44.3	31.1	0.80	635	1.15	0.78	12.2	44.8	780
ZZ72323		3.85	25.5	0.19	2.9	0.078	2.89	53.1	43.6	0.72	762	0.97	0.80	16.3	45.4	760
ZZ72324		3.70	21.1	0.21	3.0	0.067	2.36	63.0	29.8	0.68	1020	1.40	0.91	14.0	49.8	730
ZZ72325		4.24	22.0	0.20	3.0	0.072	2.41	66.6	34.4	0.70	1000	1.95	0.90	16.1	47.7	960
ZZ72326		3.86	17.05	0.18	2.5	0.195	1.77	37.8	23.4	0.83	952	2.64	1.07	9.8	64.3	790
ZZ72327		4.02	19.05	0.16	2.6	0.191	2.11	39.4	22.1	0.65	1160	3.25	0.75	11.2	59.7	550
ZZ72328		3.29	21.1	0.20	3.1	0.216	3.00	53.8	20.0	0.63	574	4.90	0.53	15.3	41.7	840
ZZ72329		3.41	14.70	0.15	1.9	0.052	1.34	30.1	21.0	0.77	1140	1.73	1.39	9.0	38.8	250
ZZ72330		5.45	13.40	0.12	1.9	0.067	1.53	23.8	14.2	0.33	845	10.00	0.39	5.7	28.2	990
ZZ72331		4.58	11.95	0.14	1.5	0.040	0.88	22.4	17.9	6.10	1280	1.37	0.98	7.1	724	280
ZZ72332		3.48	15.55	0.16	2.1	0.051	1.53	32.3	25.3	0.74	1520	2.39	1.31	9.9	50.8	590
ZZ72333		3.63	16.40	0.17	2.3	0.054	1.66	34.8	26.9	0.88	1260	1.94	1.27	9.9	61.1	450
ZZ72334		3.58	16.50	0.17	2.6	0.066	1.77	36.3	25.0	0.73	1250	2.59	1.15	9.3	58.0	680
ZZ72335		4.24	13.55	0.15	1.8	0.047	1.24	28.1	22.0	3.22	975	1.07	1.13	8.2	560	550
ZZ72336		4.56	17.35	0.18	2.5	0.061	2.04	39.4	34.1	2.78	1450	2.28	0.68	10.1	245	820
ZZ72337		4.73	20.2	0.17	2.5	0.069	2.09	38.6	44.2	1.14	1380	1.25	0.98	10.5	72.5	440
ZZ72338		6.71	21.7	0.12	1.4	0.066	1.17	14.0	61.9	6.13	1140	0.80	0.12	4.0	487	930
ZZ72339		4.92	18.95	0.18	2.4	0.069	1.66	43.0	39.7	1.91	978	1.27	1.16	11.7	271	330
ZZ72340		3.50	15.65	0.13	1.9	0.065	1.34	31.6	24.9	0.95	742	1.34	1.51	10.0	54.6	220
ZZ72341		4.80	18.60	0.18	2.0	0.067	1.88	42.4	40.3	1.04	891	1.09	1.25	13.0	59.2	450
ZZ72342		4.73	31.6	0.18	3.7	0.104	3.85	47.0	116.0	0.69	409	0.92	0.56	16.5	35.8	500
ZZ72343		3.96	16.60	0.15	2.0	0.054	1.65	39.4	37.2	0.88	676	1.06	1.32	10.5	44.0	240
ZZ72344		4.98	22.5	0.17	2.5	0.129	2.43	51.3	57.6	1.34	908	1.15	0.86	16.3	115.5	930
ZZ72345		4.19	28.8	0.21	4.5	0.158	3.77	54.7	101.5	0.80	536	1.91	0.30	27.2	74.5	1020
ZZ72346		4.29	22.5	0.20	3.6	0.089	2.48	56.4	29.5	0.59	1540	2.97	0.36	14.6	75.4	650
ZZ72347		3.88	20.9	0.18	3.1	0.071	2.19	51.7	28.1	0.67	896	2.83	0.90	16.2	45.5	450
ZZ72348		3.28	14.70	0.16	2.1	0.049	1.50	33.7	23.4	0.74	795	1.37	1.31	9.8	37.2	290
ZZ72349		3.79	18.95	0.17	2.9	0.066	1.82	41.6	31.3	0.69	2770	2.01	0.92	10.5	73.4	800
ZZ72350		3.20	15.20	0.16	2.0	0.047	1.36	31.3	23.0	0.76	985	1.12	1.54	9.5	30.5	240
ZZ72351		5.26	31.0	0.23	4.2	0.101	4.11	67.8	63.2	1.01	711	1.70	0.25	21.8	56.5	650
ZZ72352		5.17	30.0	0.15	4.0	0.097	3.87	60.3	55.1	0.74	722	1.85	0.22	22.5	68.5	490
ZZ72353		3.89	26.2	0.11	3.5	0.094	2.92	36.4	57.4	0.68	631	1.18	0.78	17.3	60.7	440
ZZ72354		3.08	20.1	0.14	2.8	0.069	1.81	33.1	34.2	0.70	550	1.35	1.65	11.7	24.4	520
ZZ72355		4.68	23.6	0.16	2.8	0.062	2.14	49.4	64.0	1.36	595	1.28	1.00	16.1	83.0	380
ZZ72356		4.67	23.9	0.14	3.0	0.063	2.07	30.5	57.0	1.18	869	1.31	1.30	14.9	60.6	430
ZZ72357		5.30	30.4	0.23	5.1	0.078	3.75	81.7	66.1	1.13	413	3.76	0.44	27.8	83.6	1500
ZZ72358		3.10	20.3	0.13	2.7	0.059	2.20	45.7	42.3	0.72	517	1.53	0.99	14.1	39.4	480
ZZ72359		4.57	21.4	0.14	3.8	0.055	2.53	54.3	44.9	0.68	595	3.39	0.51	16.8	78.3	830
ZZ72360		3.32	28.9	2.52	3.6	0.080	3.04	33.9	73.7	0.78	422	2.26	1.54	22.3	59.4	620
ZZ72361		3.38	18.85	0.12	2.9	0.045	1.81	40.1	44.2	0.61	1340	1.90	0.82	13.1	64.1	360



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72322		20.9	136.5	<0.002	0.04	1.42	19.6	1	2.3	173.0	0.85	0.05	10.9	0.424	1.82	2.5
ZZ72323		19.7	161.0	<0.002	0.02	1.55	22.4	2	2.6	168.0	1.08	0.08	15.1	0.496	1.36	2.7
ZZ72324		17.4	134.0	<0.002	0.02	2.25	17.1	2	2.2	179.0	0.94	0.06	15.7	0.450	0.89	2.8
ZZ72325		18.2	131.5	<0.002	0.02	1.93	17.9	2	2.5	178.5	1.04	0.05	16.0	0.473	0.84	3.1
ZZ72326		208	111.5	<0.002	0.02	5.63	16.3	2	8.5	213	0.68	0.09	9.4	0.381	0.77	2.7
ZZ72327		198.5	121.0	<0.002	0.04	8.83	15.1	2	11.0	172.5	0.81	0.15	10.2	0.341	1.45	3.1
ZZ72328		463	174.5	<0.002	0.14	12.15	13.4	3	30.9	254	1.04	0.19	15.1	0.320	1.98	3.8
ZZ72329		23.1	64.4	<0.002	0.01	2.35	12.6	1	1.8	262	0.64	0.05	7.5	0.383	0.52	1.6
ZZ72330		20.4	108.5	<0.002	0.20	6.05	10.3	2	7.3	172.0	0.43	0.15	6.8	0.196	0.79	1.9
ZZ72331		13.7	43.2	<0.002	0.01	5.33	13.3	1	1.3	184.0	0.49	0.07	5.7	0.299	0.36	1.3
ZZ72332		16.0	76.8	<0.002	0.01	2.42	13.1	1	1.7	246	0.74	0.06	8.1	0.398	0.54	1.9
ZZ72333		17.9	90.0	<0.002	0.01	2.23	14.6	1	2.7	245	0.73	<0.05	8.4	0.419	0.59	1.9
ZZ72334		27.3	90.3	<0.002	0.02	4.28	13.0	2	4.2	267	0.67	0.07	8.5	0.374	0.62	2.6
ZZ72335		14.4	57.8	<0.002	0.02	5.65	14.7	1	1.7	245	0.57	<0.05	6.6	0.355	0.40	1.5
ZZ72336		13.3	101.0	<0.002	0.04	5.25	20.1	1	1.7	260	0.72	0.08	9.5	0.414	0.59	2.7
ZZ72337		15.2	108.5	<0.002	0.02	3.16	24.5	2	1.9	177.5	0.77	0.06	9.5	0.466	0.65	2.0
ZZ72338		5.9	31.2	<0.002	0.03	3.27	29.8	1	1.1	120.0	0.28	0.08	2.5	0.404	0.43	0.9
ZZ72339		40.6	94.6	<0.002	0.01	6.68	22.2	2	3.5	207	0.81	<0.05	10.0	0.484	0.67	2.1
ZZ72340		80.4	65.7	<0.002	0.01	1.85	13.6	1	2.0	247	0.74	0.06	7.6	0.416	0.51	1.9
ZZ72341		31.2	91.9	<0.002	0.01	2.30	16.2	1	2.4	243	0.90	<0.05	8.7	0.516	0.60	1.8
ZZ72342		17.2	194.0	<0.002	0.01	3.63	25.4	1	3.2	97.4	1.09	<0.05	15.2	0.529	1.13	2.6
ZZ72343		17.6	85.8	<0.002	0.01	2.26	15.6	1	1.7	224	0.74	<0.05	9.5	0.418	0.55	2.0
ZZ72344		87.3	133.5	<0.002	0.02	4.77	20.8	1	4.8	184.0	1.04	0.06	11.9	0.563	0.77	2.8
ZZ72345		75.6	203	<0.002	0.05	5.36	22.2	2	5.9	212	1.85	0.08	19.1	0.714	1.37	4.4
ZZ72346		67.4	151.5	<0.002	0.07	7.64	17.7	3	19.7	188.5	0.93	0.11	16.1	0.447	1.06	3.4
ZZ72347		40.7	115.5	<0.002	0.03	4.69	14.7	2	11.3	233	1.09	0.07	14.9	0.459	1.03	2.7
ZZ72348		17.0	71.8	<0.002	0.02	1.75	12.7	1	2.4	248	0.77	0.05	8.4	0.384	0.55	1.9
ZZ72349		37.0	101.5	<0.002	0.02	5.79	16.7	2	5.4	283	0.76	0.09	10.1	0.416	0.75	2.6
ZZ72350		13.7	62.9	<0.002	0.01	1.20	12.6	2	1.5	280	0.69	0.05	7.6	0.393	0.44	1.7
ZZ72351		31.2	213	<0.002	0.05	4.03	24.1	2	12.0	72.7	1.40	0.05	20.6	0.562	1.26	3.5
ZZ72352		25.2	189.0	<0.002	0.03	4.38	19.4	2	8.9	91.7	1.40	0.05	16.7	0.605	1.23	2.7
ZZ72353		56.6	135.0	<0.002	0.01	3.35	15.3	1	3.9	177.5	1.22	<0.05	8.8	0.547	0.90	2.2
ZZ72354		113.0	85.2	<0.002	0.02	2.96	10.3	1	2.7	330	0.83	<0.05	7.6	0.424	0.57	2.0
ZZ72355		20.0	117.0	<0.002	0.01	1.86	18.7	2	2.4	160.0	1.10	<0.05	10.9	0.527	0.78	2.3
ZZ72356		17.1	88.3	<0.002	0.01	1.60	16.0	1	2.2	195.5	1.05	<0.05	7.1	0.561	0.69	1.9
ZZ72357		22.6	186.0	<0.002	0.02	3.15	20.0	3	3.2	106.5	1.73	0.06	21.4	0.740	1.38	3.6
ZZ72358		17.4	115.0	<0.002	0.01	1.87	13.0	1	2.6	183.0	1.03	<0.05	10.3	0.480	0.97	2.6
ZZ72359		17.6	137.0	<0.002	0.01	2.73	16.1	2	2.2	121.5	1.16	0.05	13.0	0.511	1.09	3.2
ZZ72360		24.6	113.5	<0.002	0.01	3.09	10.7	1	5.0	121.5	1.48	0.06	9.1	0.493	1.37	3.3
ZZ72361		16.1	97.9	<0.002	0.01	2.13	13.7	1	2.3	152.5	0.90	0.05	9.6	0.442	0.79	2.5



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ72322		149	1.8	13.3	132	96.0
ZZ72323		163	2.3	15.3	110	108.5
ZZ72324		160	2.4	14.1	118	112.5
ZZ72325		155	2.2	16.4	129	115.5
ZZ72326		147	2.1	16.1	306	94.6
ZZ72327		209	2.7	11.3	758	91.9
ZZ72328		229	4.4	9.6	206	112.0
ZZ72329		126	1.3	14.3	85	73.3
ZZ72330		142	2.4	5.5	107	71.1
ZZ72331		98	1.3	9.8	79	59.2
ZZ72332		125	1.5	13.7	110	79.0
ZZ72333		135	1.8	15.6	88	82.7
ZZ72334		126	2.3	16.3	117	99.0
ZZ72335		113	1.6	14.0	86	70.9
ZZ72336		163	2.2	15.8	109	102.0
ZZ72337		193	1.8	15.3	99	92.2
ZZ72338		283	1.0	9.5	120	54.6
ZZ72339		152	1.5	17.8	110	92.5
ZZ72340		126	1.2	13.9	84	72.6
ZZ72341		130	1.4	17.8	114	73.0
ZZ72342		141	1.4	10.0	103	127.5
ZZ72343		128	1.5	18.1	78	76.1
ZZ72344		149	1.4	15.2	588	93.1
ZZ72345		212	2.4	17.9	498	163.0
ZZ72346		178	4.6	14.1	165	135.5
ZZ72347		167	3.0	16.2	111	114.5
ZZ72348		121	1.3	16.0	74	77.1
ZZ72349		155	2.8	14.3	166	109.0
ZZ72350		112	1.0	15.5	69	76.2
ZZ72351		166	2.3	14.2	148	152.0
ZZ72352		156	2.1	13.6	122	140.5
ZZ72353		133	2.4	9.6	156	128.0
ZZ72354		100	1.2	9.6	253	109.5
ZZ72355		143	1.4	14.8	94	104.0
ZZ72356		151	1.5	9.0	120	112.0
ZZ72357		259	2.0	21.3	192	194.5
ZZ72358		160	1.5	12.2	108	97.8
ZZ72359		204	1.3	20.6	169	147.0
ZZ72360		169	1.7	11.2	130	115.0
ZZ72361		149	1.7	12.8	126	108.0



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72362		0.20	0.010	0.25	7.94	34.4	4190	2.10	0.30	0.74	0.28	81.3	13.8	92	9.91	47.2
ZZ72363		0.12	0.009	0.26	7.96	25.2	4830	2.15	0.29	1.51	0.29	75.5	21.4	132	8.94	68.2
ZZ72364		0.19	0.007	0.23	7.66	12.6	4520	1.71	0.27	1.24	0.21	74.8	11.0	77	7.49	44.6
ZZ72365		0.15	0.005	0.34	7.23	13.2	3890	1.61	0.23	1.55	0.27	67.8	14.4	84	6.96	42.5
ZZ72366		0.18	0.023	0.26	6.75	20.6	>10000	2.16	0.33	0.32	0.24	87.1	19.1	122	10.45	114.5
ZZ72367		0.32	0.014	0.55	6.96	30.3	5980	2.13	0.30	0.73	0.38	88.0	18.7	125	12.10	88.6
ZZ72368		0.35	0.022	0.81	6.88	49.3	4500	1.96	0.29	0.84	0.55	90.6	19.6	132	11.20	93.6
ZZ72369		0.12	0.009	0.97	5.44	13.2	1280	1.49	0.25	2.26	0.45	64.9	11.0	133	9.94	57.3
ZZ72370		0.15	0.014	0.93	5.62	23.1	2700	1.66	0.25	1.96	0.36	71.7	12.1	140	9.01	61.6
ZZ72371		0.10	0.016	0.36	3.43	38.8	2170	0.97	0.19	4.63	0.30	25.2	6.6	66	3.92	59.1
ZZ72372		0.16	0.005	1.09	5.97	14.6	1410	1.31	0.23	1.03	0.80	58.5	10.4	98	3.65	35.5
ZZ72373		0.30	0.005	1.25	6.39	8.5	1280	1.24	0.21	1.18	0.95	58.6	11.7	88	3.22	38.7
ZZ72374		0.18	0.001	0.51	6.29	15.5	1120	1.38	0.25	1.34	0.16	66.8	12.5	82	2.54	22.4
ZZ72375		0.16	0.015	1.31	6.47	17.0	1660	1.69	0.24	0.81	0.69	67.6	13.4	98	4.70	58.3
ZZ72376		0.29	0.015	1.48	10.50	49.2	2740	3.27	0.47	0.31	1.10	101.5	19.7	133	13.20	88.9
ZZ72377		0.24	0.006	0.32	8.33	14.9	1400	2.15	0.31	0.88	0.44	95.3	13.9	93	6.99	32.9
ZZ72378		0.20	0.005	0.12	6.80	13.4	1040	1.66	0.25	1.60	0.16	77.2	13.7	85	3.59	35.2
ZZ72379		0.19	0.022	0.63	9.89	172.5	5570	3.19	0.47	3.30	0.13	154.5	27.4	144	7.16	40.5
ZZ72380		0.07	0.005	0.08	7.81	48.8	950	2.09	0.20	2.20	0.22	90.6	19.4	127	4.94	28.0
ZZ72381		0.26	0.001	0.13	7.75	38.0	940	1.86	0.27	1.09	0.05	96.2	18.0	93	4.28	25.3
ZZ72382		0.22	0.004	0.15	6.86	29.7	1020	1.36	0.21	1.39	0.11	72.9	12.5	76	3.00	21.6
ZZ72383		0.20	0.005	0.25	6.25	199.5	820	1.26	0.20	1.58	0.20	80.9	35.6	209	2.35	40.3
ZZ72384		0.12	0.007	0.11	7.79	39.9	870	2.16	0.23	0.88	0.08	93.6	18.7	117	4.70	34.3
ZZ72385		0.24	0.048	2.00	9.27	391	1800	2.62	0.26	0.56	0.72	134.5	20.0	324	8.79	39.9
ZZ72386		0.20	0.003	0.12	9.93	46.6	1360	2.88	0.19	0.80	0.10	127.0	24.3	168	6.81	36.3
ZZ72387		0.17	0.002	0.18	7.12	30.8	910	1.42	0.23	1.31	0.17	75.4	22.1	104	2.84	25.3
ZZ72388		0.25	0.003	0.12	8.29	10.1	1190	1.99	0.17	1.34	0.08	77.9	13.8	85	4.29	20.7
ZZ72389		0.21	0.003	0.08	7.59	18.0	870	2.25	0.24	1.75	0.08	100.5	14.4	91	4.35	25.0
ZZ72390		0.16	0.004	0.10	6.71	21.2	960	1.47	0.15	1.39	0.08	66.7	11.3	78	2.95	14.9
ZZ72391		0.14	0.003	0.28	7.65	76.5	1480	1.85	0.19	1.37	0.39	73.6	13.3	102	5.40	28.9
ZZ72392		0.20	0.002	0.23	9.22	112.0	2120	3.57	0.14	0.73	0.11	109.5	25.5	142	7.66	32.0
ZZ72393		0.26	0.005	0.35	6.94	357	1100	1.69	0.18	1.09	0.17	60.1	55.2	1360	5.47	34.2
ZZ72394		0.25	0.002	0.16	7.45	52.6	1270	1.52	0.17	1.16	0.10	60.2	24.4	231	4.49	32.9
ZZ72395		0.17	0.006	0.16	6.93	21.9	1300	1.14	0.14	1.50	0.10	52.6	16.8	122	3.33	25.3
ZZ72396		0.20	0.005	0.29	8.07	52.9	3290	1.44	0.16	1.04	0.08	57.6	23.9	207	6.63	56.5
ZZ72397		0.18	0.011	0.30	9.35	85.1	3440	1.59	0.11	1.28	0.08	50.8	38.4	354	7.09	109.5

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72362		3.59	21.8	0.17	3.4	0.058	2.32	44.1	46.0	0.65	1120	2.49	0.66	15.1	62.4	460
ZZ72363		5.19	20.5	0.15	2.4	0.056	2.27	40.4	40.1	1.23	1040	2.16	0.98	11.8	53.3	960
ZZ72364		2.98	20.0	0.16	2.9	0.043	1.78	41.0	46.0	0.62	1670	2.24	1.17	11.9	50.3	450
ZZ72365		3.31	19.35	0.12	2.6	0.046	1.78	36.4	43.1	0.68	1910	1.84	1.02	12.8	54.7	870
ZZ72366		3.56	22.2	0.15	3.4	0.057	2.42	42.9	66.5	0.60	4650	2.88	0.15	11.6	115.0	850
ZZ72367		3.87	20.7	0.12	3.5	0.050	2.32	44.8	56.2	0.60	3900	2.81	0.37	11.4	108.0	1020
ZZ72368		4.00	20.2	0.14	3.4	0.062	2.23	47.9	48.8	0.60	4780	3.00	0.47	11.6	117.5	1100
ZZ72369		2.94	15.15	0.14	2.8	0.036	1.47	37.2	30.3	0.46	1100	2.11	0.49	10.2	62.1	1040
ZZ72370		3.26	16.60	0.15	2.9	0.039	1.63	40.7	30.1	0.49	1200	2.66	0.51	10.9	70.8	1030
ZZ72371		1.57	9.34	0.13	1.4	0.019	0.97	12.1	11.9	0.47	931	0.98	0.31	5.6	35.5	1090
ZZ72372		2.99	15.45	0.15	2.0	0.031	1.69	29.4	25.5	0.69	436	14.45	1.13	10.4	35.3	370
ZZ72373		2.96	15.65	0.13	2.2	0.028	1.40	29.3	24.4	0.71	676	5.10	1.16	10.0	37.0	410
ZZ72374		3.41	14.80	0.14	2.0	0.033	1.37	33.1	23.7	0.78	516	1.87	1.39	10.2	32.6	230
ZZ72375		3.46	16.65	0.14	2.5	0.038	1.93	35.3	28.0	0.74	585	4.83	0.75	10.0	54.7	540
ZZ72376		5.25	29.8	0.18	4.7	0.083	3.32	48.6	41.4	0.98	484	20.1	0.40	19.2	80.1	570
ZZ72377		3.76	21.1	0.19	3.1	0.054	2.13	47.7	43.7	0.72	455	4.94	0.99	14.2	41.6	560
ZZ72378		3.58	16.30	0.13	2.5	0.032	1.47	39.2	27.2	0.96	498	1.53	1.42	11.1	35.2	640
ZZ72379		3.71	29.3	0.25	4.2	0.064	4.29	74.3	26.4	0.59	517	0.81	0.49	13.3	81.4	830
ZZ72380		3.77	20.3	0.16	2.2	0.051	2.67	46.9	28.0	0.73	472	0.71	0.48	6.4	39.7	960
ZZ72381		4.09	19.50	0.14	2.3	0.040	1.83	47.9	32.2	0.78	632	1.20	1.03	9.8	39.7	220
ZZ72382		3.25	16.00	0.13	2.5	0.028	1.55	38.2	22.5	0.72	821	1.02	1.45	9.2	33.4	240
ZZ72383		6.30	16.45	0.14	2.1	0.074	0.93	40.4	28.7	0.73	1600	1.31	1.01	8.5	167.5	740
ZZ72384		4.38	22.8	0.15	2.5	0.061	2.51	49.6	28.5	0.65	618	0.97	0.82	11.0	62.2	360
ZZ72385		4.14	26.5	0.20	3.1	0.384	3.34	68.5	25.1	0.58	666	1.23	0.45	10.7	207	580
ZZ72386		5.18	30.6	0.19	2.9	0.070	2.89	58.9	37.4	1.26	557	1.22	0.71	14.3	87.2	640
ZZ72387		4.66	18.30	0.10	1.8	0.042	1.22	35.7	31.8	1.15	814	1.44	1.45	10.0	85.6	470
ZZ72388		3.45	19.95	0.15	2.3	0.048	2.22	37.1	24.8	0.70	1070	1.34	1.35	10.4	33.0	210
ZZ72389		3.79	19.00	0.18	2.5	0.057	2.26	54.4	24.4	0.70	656	1.22	1.02	12.2	41.0	260
ZZ72390		2.94	15.90	0.15	2.3	0.041	1.54	32.8	21.4	0.70	786	1.43	1.42	10.0	28.6	380
ZZ72391		3.34	18.25	0.14	2.3	0.061	1.69	36.5	27.4	0.76	1120	1.87	1.23	10.7	54.0	410
ZZ72392		4.23	25.9	0.21	2.6	0.080	2.48	52.4	40.0	1.04	780	1.34	0.91	11.8	93.9	370
ZZ72393		5.21	16.85	0.14	2.2	0.046	1.36	30.5	33.1	3.61	910	1.41	1.04	8.4	645	400
ZZ72394		4.68	17.45	0.13	2.0	0.049	1.24	30.7	31.9	1.58	878	1.32	1.25	9.7	125.5	210
ZZ72395		3.68	15.25	0.12	1.9	0.040	1.18	26.3	24.8	1.02	925	1.49	1.54	11.0	48.6	200
ZZ72396		4.65	19.25	0.14	2.6	0.057	1.78	28.8	38.4	1.16	1360	2.42	0.98	8.8	89.8	380
ZZ72397		6.42	21.4	0.14	2.2	0.069	2.56	25.2	67.3	1.77	1480	1.44	0.37	8.8	150.0	670

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS WH13121181

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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72362		19.2	127.0	<0.002	0.01	3.28	15.4	2	3.3	175.0	1.09	0.05	11.8	0.489	1.07	3.6
ZZ72363		21.7	114.0	<0.002	0.05	1.85	22.4	2	2.2	126.0	0.80	0.08	9.4	0.490	2.17	2.1
ZZ72364		14.1	100.5	<0.002	0.01	1.73	12.2	1	2.2	264	0.85	0.06	9.4	0.410	0.79	2.8
ZZ72365		14.6	87.0	<0.002	0.03	1.98	13.4	1	2.0	263	0.89	0.06	7.9	0.494	0.73	2.4
ZZ72366		17.2	133.5	<0.002	0.03	5.03	17.8	2	2.3	117.0	0.81	0.16	10.9	0.404	0.87	2.7
ZZ72367		18.0	131.5	<0.002	0.02	5.14	17.6	2	2.3	158.0	0.82	0.11	10.7	0.432	0.90	2.8
ZZ72368		39.8	126.0	<0.002	0.02	7.37	17.2	3	2.3	185.5	0.84	0.14	10.8	0.447	0.90	3.1
ZZ72369		14.1	92.7	<0.002	0.06	2.34	12.8	2	1.7	160.0	0.71	<0.05	8.5	0.370	0.68	2.6
ZZ72370		15.0	107.0	<0.002	0.04	2.72	13.7	3	1.9	156.0	0.77	0.08	8.8	0.399	0.76	2.5
ZZ72371		7.7	54.8	<0.002	0.17	1.48	8.1	2	1.5	189.5	0.40	0.05	3.8	0.213	0.48	2.6
ZZ72372		13.3	83.8	<0.002	0.01	3.42	11.7	5	1.6	194.5	0.76	0.10	7.2	0.402	0.95	2.1
ZZ72373		12.5	60.8	<0.002	0.01	2.51	11.6	3	1.6	211	0.71	0.06	6.9	0.410	0.67	1.8
ZZ72374		14.1	64.6	<0.002	0.01	1.72	12.4	1	1.6	229	0.78	<0.05	8.7	0.400	0.53	1.8
ZZ72375		13.6	93.9	<0.002	0.01	3.48	14.2	6	1.8	149.0	0.73	0.12	8.4	0.392	0.73	2.0
ZZ72376		25.9	162.0	<0.002	0.03	9.08	21.7	7	3.7	110.0	1.35	0.17	14.4	0.581	1.98	4.1
ZZ72377		17.8	112.0	<0.002	0.02	2.58	15.7	1	2.4	173.5	1.06	0.13	11.2	0.484	1.01	2.3
ZZ72378		15.3	73.0	<0.002	0.01	1.50	13.7	1	1.7	257	0.81	<0.05	9.2	0.448	0.57	1.9
ZZ72379		33.4	185.5	<0.002	0.05	5.67	17.8	1	3.3	263	0.94	<0.05	24.2	0.376	1.36	3.2
ZZ72380		6.2	132.5	<0.002	0.07	1.88	19.8	1	1.5	170.5	0.47	<0.05	10.8	0.269	0.74	2.6
ZZ72381		15.2	99.0	<0.002	0.01	1.38	14.1	1	1.9	186.0	0.70	0.08	11.6	0.376	0.65	1.6
ZZ72382		15.7	77.3	<0.002	0.01	1.26	11.8	1	1.6	260	0.65	<0.05	8.9	0.375	0.50	1.9
ZZ72383		28.9	43.9	<0.002	0.01	2.63	16.4	1	2.2	241	0.62	<0.05	7.5	0.363	0.37	1.5
ZZ72384		32.9	120.5	<0.002	0.01	3.20	17.0	1	2.3	159.5	0.75	<0.05	11.4	0.395	0.76	2.0
ZZ72385		555	175.5	<0.002	0.03	43.9	19.4	2	9.7	127.5	0.79	<0.05	19.4	0.396	1.22	2.4
ZZ72386		17.2	146.5	<0.002	0.01	5.47	21.5	1	2.6	152.0	1.05	<0.05	13.0	0.534	0.93	2.2
ZZ72387		16.2	64.3	<0.002	0.01	2.30	14.3	1	1.5	222	0.72	<0.05	8.0	0.430	0.48	1.4
ZZ72388		12.9	110.5	<0.002	0.01	1.27	14.2	1	1.8	262	0.77	<0.05	10.6	0.396	0.67	2.0
ZZ72389		23.2	115.0	<0.002	0.01	1.75	14.9	2	1.9	223	0.86	0.05	15.4	0.375	0.68	2.3
ZZ72390		13.1	69.6	<0.002	0.01	1.11	11.7	1	1.6	250	0.72	<0.05	9.4	0.386	0.48	1.8
ZZ72391		22.5	81.7	<0.002	0.01	3.03	14.0	2	2.1	271	0.77	0.05	10.3	0.398	0.79	2.3
ZZ72392		12.6	132.5	<0.002	0.01	3.55	19.5	2	3.7	151.5	0.82	<0.05	14.8	0.405	1.08	2.0
ZZ72393		14.9	75.4	<0.002	0.02	23.6	17.5	2	1.6	221	0.61	0.06	8.3	0.318	0.65	1.7
ZZ72394		15.5	60.8	<0.002	0.01	2.73	19.7	2	1.6	203	0.69	0.05	8.4	0.454	0.59	1.6
ZZ72395		12.1	52.8	<0.002	0.01	1.54	15.1	1	1.4	239	0.76	<0.05	6.4	0.434	0.47	1.7
ZZ72396		14.1	86.2	<0.002	0.02	2.99	21.8	1	1.7	195.0	0.61	0.05	7.7	0.425	0.73	1.6
ZZ72397		10.4	88.7	<0.002	0.03	3.87	32.9	2	1.7	78.0	0.61	0.06	7.9	0.495	0.64	1.8



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CERTIFICATE OF ANALYSIS	WH13121181
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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ72362		171	1.9	15.6	133	126.0
ZZ72363		184	2.5	19.2	152	100.5
ZZ72364		140	1.6	14.2	145	110.0
ZZ72365		135	1.5	13.4	155	102.0
ZZ72366		186	2.6	11.8	213	133.5
ZZ72367		192	2.5	13.2	255	133.0
ZZ72368		199	2.6	14.9	299	133.5
ZZ72369		139	1.8	15.4	117	107.5
ZZ72370		153	1.7	14.5	135	113.5
ZZ72371		75	1.3	9.2	62	57.2
ZZ72372		290	1.3	10.6	138	76.3
ZZ72373		130	1.2	10.3	174	80.5
ZZ72374		125	1.4	14.3	68	72.8
ZZ72375		155	1.3	16.3	163	96.5
ZZ72376		359	2.4	21.1	260	172.0
ZZ72377		163	1.6	13.0	110	110.5
ZZ72378		124	1.2	17.1	71	91.2
ZZ72379		110	2.6	14.0	89	144.5
ZZ72380		122	1.0	12.0	82	80.6
ZZ72381		107	1.1	12.0	49	86.8
ZZ72382		103	1.1	15.1	70	89.7
ZZ72383		127	1.3	21.4	91	83.4
ZZ72384		128	1.4	19.4	73	89.7
ZZ72385		129	2.9	14.0	360	114.5
ZZ72386		155	1.2	11.1	98	108.5
ZZ72387		134	1.0	12.0	78	72.9
ZZ72388		108	1.2	11.9	70	81.6
ZZ72389		104	1.2	20.4	63	92.4
ZZ72390		97	1.1	11.5	60	73.6
ZZ72391		113	1.6	15.8	91	84.3
ZZ72392		126	1.9	12.5	104	88.2
ZZ72393		113	1.2	12.7	85	82.5
ZZ72394		150	1.3	16.7	75	68.2
ZZ72395		129	1.2	13.5	63	76.0
ZZ72396		175	1.3	11.3	85	93.9
ZZ72397		233	1.3	13.2	116	82.4



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Page: 1
 Finalized Date: 20-JUL-2013
 Account: MTT

CERTIFICATE WH13121182

Project: Magnum
 P.O. No.:
 This report is for 254 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2013.
 The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	
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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	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
 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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH13121182

Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72401		0.19	0.016	1.32	8.79	24.5	3990	2.89	0.20	1.34	3.22	137.0	18.6	171	14.95	65.9
ZZ72402		0.14	0.010	0.43	6.23	63.4	1770	1.42	0.15	2.09	0.49	56.6	20.2	297	5.98	55.3
ZZ72403		0.15	0.002	0.10	6.47	25.2	2240	1.40	0.17	1.38	0.07	62.8	11.0	84	3.68	25.6
ZZ72404		0.13	0.001	0.30	5.78	30.7	1900	1.28	0.16	1.40	0.13	55.3	10.5	72	3.06	22.6
ZZ72405		0.21	0.055	0.93	6.22	245	6440	1.68	0.31	0.77	0.21	76.9	12.6	105	7.50	64.7
ZZ72406		0.11	0.007	0.33	5.92	28.9	4820	1.70	0.24	1.39	0.49	77.6	10.3	68	7.37	45.2
ZZ72407		0.16	0.010	0.43	6.89	39.7	5390	2.04	0.29	1.63	1.09	86.3	11.1	64	11.15	52.1
ZZ72408		0.14	0.014	0.46	6.80	101.0	6010	2.10	0.33	1.00	0.51	97.7	17.4	98	10.20	73.7
ZZ72409		0.17	0.012	0.25	6.49	75.9	4410	1.89	0.23	0.93	0.45	95.7	14.8	102	7.66	59.9
ZZ72410		0.16	0.004	0.43	7.82	26.4	3190	2.46	0.23	1.04	0.74	111.0	12.7	111	10.60	42.0
ZZ72411		0.25	0.005	0.21	8.18	39.9	3840	2.59	0.26	0.67	0.40	113.5	14.9	119	11.75	41.9
ZZ72412		0.15	<0.001	0.23	8.88	26.2	1870	2.84	0.17	1.06	0.36	118.0	23.7	175	9.63	57.6
ZZ72413		0.23	0.008	0.07	6.28	14.5	1120	1.50	0.18	1.11	0.09	73.5	13.4	80	2.84	20.2
ZZ72414		0.23	<0.001	0.20	6.46	14.6	970	1.23	0.16	1.55	0.16	59.3	13.6	79	1.57	23.7
ZZ72415		0.11	<0.001	0.29	8.80	29.5	2290	3.08	0.42	0.28	0.44	145.5	19.5	95	12.40	34.8
ZZ72416		0.19	<0.001	0.15	6.31	16.6	3270	1.63	0.18	0.67	0.25	69.1	7.8	71	5.57	30.8
ZZ72417		0.20	0.003	0.23	7.43	23.3	3930	1.92	0.23	0.88	0.36	65.5	10.2	67	6.60	27.8
ZZ72418		0.24	0.001	0.23	6.63	16.7	2630	1.56	0.20	1.27	0.32	72.2	11.1	77	5.16	25.6
ZZ72419		0.16	0.004	0.10	7.61	21.3	6600	2.26	0.28	0.40	0.26	96.3	12.7	87	8.99	39.7
ZZ72420		0.14	0.001	0.31	7.19	14.0	1920	1.35	0.20	1.41	0.10	47.5	7.0	50	3.37	27.3
ZZ72421		0.18	0.020	0.99	6.86	60.5	3100	2.00	0.27	0.58	0.43	103.5	19.4	147	13.50	95.4
ZZ72422		0.18	0.011	0.57	6.58	42.9	2920	1.80	0.24	0.62	0.19	84.6	12.9	118	9.84	77.3
ZZ72423		0.19	0.311	2.65	5.56	226	1770	1.63	0.32	1.47	5.66	73.6	9.7	117	9.58	77.1
ZZ72424		0.15	0.010	0.65	6.15	14.8	1580	1.92	0.21	1.76	0.65	73.3	11.6	162	11.25	66.7
ZZ72425		0.11	0.021	0.69	4.82	23.8	4240	1.49	0.17	2.36	0.34	62.1	10.7	121	6.74	61.1
ZZ72426		0.23	0.024	1.71	6.74	20.9	2660	2.00	0.32	0.35	2.86	78.2	13.6	155	8.02	126.0
ZZ72427		0.16	0.181	1.59	6.89	37.7	1820	2.07	0.34	0.59	0.46	78.7	16.4	109	10.70	92.4
ZZ72428		0.21	0.014	1.00	6.88	44.6	2620	2.24	0.41	0.19	0.78	83.0	15.9	121	8.93	115.0
ZZ72429		0.17	0.017	1.83	7.25	48.6	3110	2.07	0.27	0.43	1.48	79.7	15.4	144	8.74	103.0
ZZ72430		0.16	<0.001	0.92	5.89	11.9	1340	1.28	0.18	1.21	3.54	53.9	11.0	67	3.01	31.1
ZZ72431		0.22	<0.001	0.27	5.83	7.0	1120	1.04	0.15	1.08	0.22	62.7	9.6	72	2.59	21.2
ZZ72432		0.21	0.002	0.25	6.93	13.0	1160	1.76	0.23	1.25	0.46	76.3	12.1	88	4.02	31.8
ZZ72433		0.21	<0.001	0.48	8.06	8.3	1120	2.02	0.23	1.00	0.57	76.2	13.5	82	6.07	32.6
ZZ72434		0.28	0.004	0.29	8.17	14.2	1180	2.27	0.30	0.87	0.31	86.0	17.2	91	7.61	32.8
ZZ72435		0.13	0.001	0.30	6.56	8.4	1080	1.80	0.21	1.56	0.98	77.2	10.6	91	6.08	29.4
ZZ72436		0.16	0.003	0.55	5.72	12.6	5630	1.51	0.15	2.16	1.62	44.1	9.1	91	9.02	58.4
ZZ72437		0.22	0.004	0.47	6.53	17.7	2440	1.41	0.18	1.34	0.60	56.2	11.3	71	4.01	31.7
ZZ72438		0.14	<0.001	0.67	6.75	11.9	2740	1.28	0.18	1.34	1.32	58.8	11.9	62	4.19	28.0
ZZ72439		0.25	0.010	0.39	6.93	66.2	2710	1.41	0.20	1.13	0.55	52.5	16.3	151	5.30	58.9
ZZ72440		0.26	0.017	0.28	11.20	775	1850	3.66	0.20	0.34	0.19	147.5	15.7	149	13.30	44.4



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72401		4.28	26.3	0.26	5.4	0.155	3.71	70.9	50.4	0.88	396	2.65	0.11	31.0	96.1	1740
ZZ72402		3.90	15.95	0.17	2.0	0.068	1.65	31.2	33.7	2.24	717	1.08	0.82	10.8	223	960
ZZ72403		3.40	15.35	0.17	2.2	0.049	1.44	31.4	24.1	0.77	859	1.40	1.31	10.3	31.7	230
ZZ72404		2.94	15.10	0.13	2.0	0.048	1.19	26.1	22.1	0.66	940	1.93	1.39	9.4	25.7	270
ZZ72405		3.63	18.85	0.18	3.2	0.058	1.66	38.9	28.9	0.59	1420	3.54	0.73	10.9	63.4	540
ZZ72406		2.55	17.45	0.15	2.6	0.054	1.91	37.4	38.5	0.58	1280	2.40	0.60	11.3	48.9	880
ZZ72407		2.70	20.9	0.20	2.7	0.066	2.17	41.3	45.5	0.60	1780	2.71	0.58	12.8	52.5	1000
ZZ72408		3.76	20.7	0.20	3.4	0.069	2.31	46.7	34.3	0.56	3480	3.91	0.46	13.0	77.7	1060
ZZ72409		3.63	19.45	0.21	3.1	0.067	1.97	47.2	35.0	0.61	1660	2.89	0.65	13.5	66.6	950
ZZ72410		3.33	23.3	0.24	3.5	0.072	2.41	55.6	42.5	0.64	879	2.03	0.63	18.0	51.8	1090
ZZ72411		3.61	25.7	0.25	4.1	0.075	2.91	55.4	48.0	0.60	1000	2.83	0.41	21.6	59.8	1260
ZZ72412		4.81	26.7	0.23	2.9	0.073	2.46	54.4	77.2	1.48	722	1.26	0.77	21.9	111.5	960
ZZ72413		3.27	16.15	0.15	2.0	0.048	1.31	33.4	28.1	0.71	545	1.57	1.26	10.3	32.0	230
ZZ72414		2.94	16.60	0.13	2.3	0.041	1.20	29.0	27.2	0.80	788	1.28	1.69	10.6	45.6	230
ZZ72415		4.27	29.0	0.31	4.3	0.080	3.33	66.0	51.8	0.70	362	7.14	0.22	27.4	89.3	1080
ZZ72416		2.77	18.15	0.17	2.1	0.052	1.72	33.6	34.8	0.60	462	1.83	0.89	12.0	35.2	360
ZZ72417		3.12	21.2	0.17	2.9	0.060	1.94	33.1	40.6	0.70	748	2.24	1.14	13.9	34.9	420
ZZ72418		3.02	18.90	0.17	2.7	0.050	1.53	36.5	33.7	0.64	1140	1.59	1.17	12.5	37.0	360
ZZ72419		3.54	22.9	0.22	3.0	0.072	2.42	46.9	51.7	0.60	1150	3.49	0.52	15.4	65.6	580
ZZ72420		2.88	19.85	0.15	3.0	0.038	1.75	24.8	27.0	0.57	904	2.08	1.89	9.6	23.0	410
ZZ72421		4.27	21.8	0.26	4.0	0.066	2.51	54.6	39.7	0.51	5460	3.76	0.38	11.8	137.5	1640
ZZ72422		3.89	20.2	0.22	3.5	0.059	2.15	42.6	37.9	0.54	2030	3.12	0.74	11.3	78.4	930
ZZ72423		3.33	16.35	0.19	3.1	0.491	1.79	38.8	24.7	0.46	1560	1.84	0.50	9.7	55.9	1070
ZZ72424		3.28	19.15	0.21	2.9	0.062	1.74	39.4	35.5	0.50	1260	2.37	0.51	12.4	70.2	990
ZZ72425		2.77	14.85	0.17	2.5	0.044	1.49	33.0	24.8	0.44	1280	2.15	0.43	10.0	58.8	1070
ZZ72426		4.12	20.9	0.23	3.7	0.075	2.55	39.8	32.4	0.67	469	37.4	0.40	13.1	68.9	930
ZZ72427		3.53	20.7	0.23	3.5	0.075	2.40	36.6	37.9	0.71	673	1.50	0.24	13.1	80.6	730
ZZ72428		4.26	21.5	0.22	3.6	0.062	2.59	41.2	37.6	0.60	410	23.3	0.23	12.5	61.5	710
ZZ72429		3.92	21.3	0.22	3.6	0.064	2.71	38.7	32.4	0.82	710	15.55	0.49	13.1	88.1	960
ZZ72430		2.75	15.75	0.15	2.3	0.042	1.31	25.9	23.4	0.63	1060	4.73	1.38	9.7	27.6	500
ZZ72431		2.59	15.55	0.14	2.1	0.042	1.30	30.0	25.3	0.64	687	1.88	1.23	10.9	26.2	290
ZZ72432		3.50	18.25	0.18	2.6	0.056	1.36	36.8	32.3	0.72	532	2.61	1.19	13.1	40.4	260
ZZ72433		3.80	21.7	0.18	3.1	0.066	1.71	36.6	44.4	0.89	669	3.28	1.39	14.1	40.4	360
ZZ72434		4.12	22.1	0.22	3.0	0.067	1.84	41.7	41.5	0.82	494	4.08	1.11	14.3	40.3	440
ZZ72435		2.95	17.55	0.16	2.8	0.055	1.53	37.5	32.6	0.64	412	3.64	0.93	11.7	42.9	710
ZZ72436		2.71	16.75	0.16	2.0	0.048	1.63	24.3	25.8	0.68	1020	2.56	0.61	8.2	55.9	1010
ZZ72437		2.94	18.05	0.16	2.6	0.049	1.71	26.5	24.9	0.62	1700	2.21	1.50	9.1	33.5	480
ZZ72438		2.80	19.05	0.17	2.8	0.041	1.70	28.6	24.8	0.59	3080	2.35	1.62	9.3	33.7	750
ZZ72439		4.02	19.40	0.17	2.4	0.090	1.40	26.4	33.5	0.91	871	2.65	1.18	9.5	66.4	620
ZZ72440		3.70	34.9	0.22	3.5	0.119	4.92	67.0	30.2	0.55	694	0.99	0.35	13.6	52.1	880



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Sample Description	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
	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	
ZZ72401	137.0	191.5	<0.002	0.02	7.17	18.2	3	5.8	150.5	1.96	0.09	19.9	0.813	1.16	4.8	
ZZ72402	28.6	87.6	<0.002	0.09	4.40	16.1	1	3.6	180.0	0.74	<0.05	7.2	0.398	0.51	2.5	
ZZ72403	14.5	71.8	<0.002	0.01	1.68	12.4	1	2.3	237	0.77	<0.05	7.3	0.428	0.53	1.6	
ZZ72404	13.9	60.5	<0.002	0.01	1.53	11.0	1	1.7	259	0.67	0.08	6.3	0.364	0.53	1.6	
ZZ72405	30.0	95.3	<0.002	0.06	5.47	14.5	4	7.9	204	0.77	0.16	9.6	0.405	0.86	2.4	
ZZ72406	18.8	98.3	<0.002	0.05	2.27	11.2	2	3.0	187.5	0.84	0.09	11.6	0.325	0.87	3.1	
ZZ72407	23.1	113.5	<0.002	0.06	2.54	11.6	3	3.6	237	0.98	0.07	13.9	0.328	1.02	3.6	
ZZ72408	23.7	127.5	<0.002	0.04	3.66	15.4	3	4.9	209	0.94	0.17	13.4	0.407	1.03	2.9	
ZZ72409	20.8	108.5	<0.002	0.03	5.08	16.5	2	2.6	174.5	0.92	0.14	11.8	0.442	0.82	3.0	
ZZ72410	18.5	134.5	<0.002	0.02	1.98	15.8	3	3.1	176.5	1.26	0.06	13.4	0.533	1.02	3.5	
ZZ72411	19.6	151.0	0.003	0.01	2.67	17.2	3	3.7	141.5	1.41	0.09	14.8	0.551	1.19	3.4	
ZZ72412	21.8	127.0	<0.002	0.03	3.96	20.2	2	2.5	158.0	1.31	0.07	13.6	0.533	0.79	2.1	
ZZ72413	16.2	69.1	<0.002	0.01	1.45	12.3	2	1.9	199.0	0.73	0.06	10.7	0.378	0.52	1.6	
ZZ72414	14.7	48.3	<0.002	0.01	1.11	10.4	1	1.6	289	0.76	0.06	6.9	0.388	0.45	1.7	
ZZ72415	28.1	173.0	<0.002	0.01	4.61	15.2	3	4.1	77.8	1.83	0.11	17.6	0.503	1.48	3.2	
ZZ72416	14.1	94.4	0.002	0.01	1.52	11.9	2	2.5	148.0	0.73	0.07	8.7	0.371	0.85	2.0	
ZZ72417	19.3	97.8	<0.002	0.01	1.81	11.3	2	3.3	200	1.02	0.07	10.5	0.397	0.95	2.4	
ZZ72418	15.9	79.9	<0.002	0.01	1.60	11.7	2	2.3	233	0.92	0.06	8.7	0.438	0.72	2.4	
ZZ72419	20.5	123.0	<0.002	0.01	3.33	13.5	2	3.4	111.5	1.16	0.09	14.2	0.400	1.10	2.9	
ZZ72420	13.6	67.2	<0.002	0.01	1.33	8.5	1	1.7	379	0.73	0.07	6.3	0.358	0.56	2.0	
ZZ72421	20.4	149.5	<0.002	0.02	9.10	19.2	5	2.6	204	0.83	0.16	12.6	0.449	0.97	3.9	
ZZ72422	17.6	123.0	0.002	0.03	5.22	15.7	4	2.3	259	0.82	0.14	10.5	0.438	0.88	2.9	
ZZ72423	833	106.0	<0.002	0.04	11.75	14.0	3	7.8	187.5	0.69	0.14	9.9	0.387	0.69	2.6	
ZZ72424	18.9	114.5	<0.002	0.04	2.03	16.3	3	2.3	152.0	0.88	0.11	10.0	0.444	0.82	2.7	
ZZ72425	17.3	93.3	<0.002	0.08	1.90	12.8	4	1.7	161.5	0.69	0.06	8.3	0.353	0.66	2.3	
ZZ72426	28.8	122.0	<0.002	0.28	5.99	17.0	10	2.7	144.0	0.97	0.33	10.4	0.431	1.63	4.4	
ZZ72427	20.9	128.0	<0.002	0.03	5.96	18.1	5	3.0	125.0	0.98	0.23	11.2	0.473	0.87	3.0	
ZZ72428	30.7	132.5	0.002	0.07	8.45	17.0	8	2.6	93.3	0.92	0.42	10.2	0.444	1.63	4.6	
ZZ72429	29.9	135.0	<0.002	0.01	11.30	17.4	8	2.7	243	0.99	0.21	11.8	0.466	1.47	3.6	
ZZ72430	15.3	63.8	0.002	0.01	1.95	9.8	2	1.7	265	0.70	0.10	6.6	0.367	0.62	1.9	
ZZ72431	12.3	59.5	<0.002	0.01	1.14	10.6	2	1.8	197.5	0.81	0.10	7.1	0.425	0.58	1.7	
ZZ72432	16.4	71.1	<0.002	0.01	1.55	14.5	3	2.2	209	1.02	0.07	10.1	0.427	0.70	2.7	
ZZ72433	14.5	99.8	<0.002	0.01	1.13	15.2	2	2.6	223	1.01	0.06	10.9	0.468	0.79	2.4	
ZZ72434	19.5	112.0	<0.002	0.02	1.50	16.6	3	2.8	196.5	1.03	0.09	12.4	0.477	0.89	2.2	
ZZ72435	16.0	92.3	0.002	0.04	1.67	13.2	3	2.1	227	0.82	0.09	10.0	0.411	0.76	2.5	
ZZ72436	11.3	95.5	<0.002	0.08	2.50	13.6	3	1.9	190.5	0.59	0.05	6.9	0.321	0.89	2.3	
ZZ72437	14.5	78.5	<0.002	0.01	1.68	10.7	3	1.7	302	0.65	0.07	7.3	0.359	0.67	2.1	
ZZ72438	16.4	71.3	<0.002	0.02	1.59	9.1	1	1.5	337	0.68	0.09	6.9	0.368	0.64	1.7	
ZZ72439	29.0	76.8	<0.002	0.02	2.54	17.0	2	3.8	203	0.68	0.07	7.0	0.416	0.63	2.1	
ZZ72440	37.9	223	0.003	0.02	5.36	25.9	1	7.1	104.5	0.89	<0.05	22.2	0.407	1.78	3.2	



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ZZ72401		322	2.6	17.9	655	201
ZZ72402		121	1.2	16.6	135	73.3
ZZ72403		122	1.3	13.2	67	79.2
ZZ72404		104	1.2	11.0	59	72.9
ZZ72405		156	4.0	12.1	127	112.0
ZZ72406		126	1.7	11.9	149	85.7
ZZ72407		132	1.6	12.9	124	88.7
ZZ72408		172	3.0	13.5	159	112.5
ZZ72409		161	2.2	15.6	148	111.0
ZZ72410		179	1.9	15.8	155	126.0
ZZ72411		218	2.0	15.8	168	141.5
ZZ72412		157	1.4	14.0	156	103.5
ZZ72413		115	1.2	11.5	69	71.1
ZZ72414		97	1.1	10.6	79	77.7
ZZ72415		209	1.7	12.4	213	142.0
ZZ72416		139	1.5	9.7	94	87.4
ZZ72417		127	1.5	12.7	111	93.2
ZZ72418		134	1.4	12.8	129	104.5
ZZ72419		170	1.7	11.5	164	98.3
ZZ72420		99	1.2	10.8	85	106.0
ZZ72421		221	3.0	20.0	332	144.5
ZZ72422		185	2.6	12.0	258	120.0
ZZ72423		152	2.7	15.8	889	110.5
ZZ72424		179	1.9	14.8	143	106.0
ZZ72425		129	1.7	12.7	126	92.8
ZZ72426		425	2.3	19.9	258	132.0
ZZ72427		122	1.9	13.8	195	119.5
ZZ72428		260	2.4	13.0	186	136.0
ZZ72429		269	1.8	15.6	284	126.0
ZZ72430		114	1.2	10.8	176	79.8
ZZ72431		109	1.3	10.0	90	71.6
ZZ72432		135	1.5	20.6	92	91.8
ZZ72433		132	1.6	13.4	130	105.0
ZZ72434		139	1.8	13.8	96	98.8
ZZ72435		118	1.4	13.2	111	89.8
ZZ72436		146	1.5	14.4	161	68.3
ZZ72437		108	1.5	11.4	133	95.6
ZZ72438		99	1.4	9.2	216	101.5
ZZ72439		156	1.7	13.1	122	83.6
ZZ72440		148	3.6	16.9	124	116.5



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72441		0.15	0.001	0.16	8.02	27.2	630	1.21	0.07	1.77	0.16	45.1	37.3	236	2.48	54.5
ZZ72442		0.20	0.016	0.26	9.10	279	1590	2.55	0.30	1.98	0.37	106.5	37.1	779	6.80	45.0
ZZ72443		0.22	<0.001	0.09	5.89	15.2	870	1.15	0.18	1.16	0.08	56.5	8.4	67	1.92	14.0
ZZ72444		0.28	<0.001	0.17	7.57	21.7	1090	1.57	0.20	1.18	0.13	78.9	12.4	93	3.64	17.7
ZZ72445		0.23	0.349	3.42	12.05	1640	1970	3.93	0.24	0.25	4.40	151.0	14.3	137	16.95	112.0
ZZ72446		0.31	0.002	0.26	7.63	94.6	1300	1.70	0.25	0.93	0.15	67.6	37.7	556	5.58	50.1
ZZ72447		0.27	0.005	0.17	8.20	87.3	1520	2.04	0.23	1.04	0.15	81.8	19.9	208	8.56	27.0
ZZ72448		0.32	0.004	0.21	7.20	175.0	1250	1.80	0.24	0.98	0.15	73.4	33.2	678	5.39	33.2
ZZ72449		0.24	0.010	0.24	8.82	395	2570	2.28	0.28	0.80	0.17	85.0	29.7	345	12.80	32.2
ZZ72450		0.21	0.001	0.61	9.55	32.4	1730	2.33	0.24	1.04	0.13	85.2	17.0	101	9.39	24.6
ZZ72451		0.17	0.003	0.77	7.42	24.8	5360	1.88	0.28	1.05	0.55	72.5	9.1	72	7.97	32.5
ZZ72452		0.19	0.007	0.93	8.34	47.0	7750	2.47	0.33	0.53	0.39	105.5	12.8	100	11.00	59.6
ZZ72453		0.15	0.009	0.60	7.48	32.1	5560	1.77	0.24	0.99	0.27	68.7	9.6	74	7.55	30.5
ZZ72454		0.25	0.005	0.35	6.88	38.7	3370	1.48	0.20	0.95	0.12	64.2	8.3	82	5.36	30.9
ZZ72455		0.19	0.017	0.58	7.15	65.8	4890	1.61	0.22	0.91	0.14	67.0	8.4	99	6.81	39.5
ZZ72456		0.21	0.004	0.38	5.89	32.3	1830	1.09	0.18	0.98	0.16	57.4	7.9	81	4.61	20.3
ZZ72457		0.20	0.012	0.18	5.78	18.9	1230	1.20	0.20	1.05	0.11	57.4	8.0	84	3.79	27.4
ZZ72458		0.22	0.006	0.32	5.93	23.8	1270	1.23	0.17	0.96	0.11	56.6	7.0	81	4.16	23.3
ZZ72459		0.22	0.006	0.31	6.09	22.8	1210	1.28	0.18	1.03	0.12	57.4	8.1	85	3.85	25.1
ZZ72460		0.17	0.003	0.38	6.20	15.8	1040	1.21	0.20	1.02	0.13	59.8	7.1	80	4.13	22.9
ZZ72461		0.19	0.003	0.49	5.79	10.8	1050	1.13	0.17	1.59	0.19	50.2	7.9	70	3.11	18.5
ZZ72462		0.22	0.008	0.64	6.09	18.2	1170	1.34	0.19	1.23	0.24	61.9	9.9	96	5.29	30.6
ZZ72463		0.17	0.010	0.56	5.79	20.3	1350	1.48	0.20	1.34	0.24	62.3	8.7	112	7.39	39.4
ZZ72464		0.16	0.003	1.17	6.36	22.7	1160	1.27	0.20	1.16	0.31	57.4	11.1	88	4.89	31.0
ZZ72465		0.12	0.018	1.04	6.04	34.1	4050	1.77	0.22	1.74	0.33	56.3	7.9	140	9.15	59.0
ZZ72466		0.14	0.015	0.62	5.70	46.6	3410	1.43	0.21	1.85	0.15	56.9	7.6	107	7.35	46.3
ZZ72467		0.13	0.022	0.56	5.14	56.0	2790	1.17	0.19	2.03	0.48	40.8	8.2	84	5.86	47.0
ZZ72468		0.25	0.033	0.50	7.20	102.5	6700	2.02	0.31	0.72	0.34	111.5	20.2	109	6.72	84.1
ZZ72469		0.20	0.030	0.32	7.15	37.1	8670	2.01	0.24	1.47	0.66	57.7	18.3	124	5.00	64.2
ZZ72470		0.20	0.006	0.30	7.40	44.1	5580	2.04	0.24	0.95	0.36	81.7	16.3	127	7.24	46.5
ZZ72471		0.17	0.007	0.20	7.52	48.5	5430	2.13	0.21	1.25	0.29	101.5	15.1	102	8.67	36.1
ZZ72472		0.21	0.010	0.28	7.64	36.3	4570	2.24	0.26	0.68	0.16	110.0	11.6	108	8.06	38.6
ZZ72473		0.29	0.007	0.34	9.48	35.9	2900	2.83	0.28	0.78	0.16	94.7	12.4	112	8.41	32.7
ZZ72474		0.25	0.012	0.31	7.71	44.1	4200	2.07	0.24	0.95	0.24	113.0	11.9	109	6.35	39.8
ZZ72475		0.17	0.017	0.54	7.29	60.0	4510	2.12	0.26	1.24	0.49	96.9	12.8	102	7.56	52.2
ZZ72476		0.20	0.009	0.36	7.84	26.9	2250	2.41	0.25	1.16	0.44	94.7	12.2	98	8.62	35.6
ZZ72477		0.16	0.010	0.42	7.24	30.7	2280	2.11	0.24	1.50	0.66	86.6	16.0	102	6.74	50.9
ZZ72478		0.16	0.010	0.44	7.28	26.3	3010	2.16	0.22	1.41	0.27	86.6	15.4	110	7.50	46.8
ZZ72479		0.25	0.007	0.57	7.06	51.4	1660	1.47	0.22	1.66	0.64	56.7	11.2	68	4.54	33.3
ZZ72480		0.13	0.004	0.57	6.82	79.9	5200	1.70	0.26	1.05	1.24	70.7	17.6	84	12.35	62.6



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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
ZZ72441		7.44	21.1	0.08	0.8	0.089	0.57	21.8	49.7	3.39	1050	0.77	1.97	12.8	88.0	1230
ZZ72442		5.20	22.7	0.14	2.7	0.091	2.37	54.7	34.7	0.73	817	1.16	0.78	9.8	560	820
ZZ72443		2.74	13.60	0.06	2.0	0.042	1.19	27.9	19.4	0.60	427	1.32	1.25	9.3	23.6	190
ZZ72444		3.31	18.55	0.11	2.1	0.053	1.86	38.8	22.8	0.67	588	1.22	1.25	10.8	49.8	230
ZZ72445		4.41	35.4	0.20	3.5	0.241	5.52	72.0	60.7	0.67	512	0.72	0.23	13.1	79.2	620
ZZ72446		4.90	18.90	0.11	2.4	0.066	1.59	33.9	36.7	3.28	877	1.45	0.88	10.7	685	420
ZZ72447		4.02	20.2	0.10	2.8	0.059	2.05	40.3	36.1	1.44	608	1.63	1.07	10.2	274	330
ZZ72448		4.79	17.30	0.09	2.5	0.056	1.52	37.6	30.6	2.30	685	2.36	1.06	9.4	534	300
ZZ72449		4.75	23.5	0.11	3.3	0.080	2.33	40.9	39.4	1.65	447	2.29	0.99	11.3	394	850
ZZ72450		3.57	24.8	0.10	3.4	0.073	2.46	42.0	68.0	0.80	743	1.76	1.37	10.0	71.7	640
ZZ72451		3.03	19.60	0.08	2.8	0.067	2.02	38.1	41.8	0.62	1120	2.28	0.91	16.0	39.2	770
ZZ72452		4.06	23.5	0.12	3.6	0.080	2.81	53.9	56.5	0.61	744	3.70	0.53	20.7	70.9	880
ZZ72453		2.94	19.95	0.08	2.7	0.058	1.91	35.4	35.3	0.61	877	1.64	1.00	15.7	32.2	810
ZZ72454		3.12	15.80	0.08	2.3	0.047	1.64	32.7	31.0	0.70	486	1.28	1.14	13.3	31.9	570
ZZ72455		3.42	17.70	0.09	2.5	0.051	1.75	34.5	25.3	0.70	805	1.57	1.09	11.9	40.3	540
ZZ72456		3.00	14.65	0.06	2.3	0.039	1.36	30.7	22.9	0.63	473	1.48	1.15	10.7	30.3	550
ZZ72457		2.94	13.55	0.06	2.2	0.042	1.23	30.0	20.7	0.67	419	1.07	1.21	10.0	31.8	340
ZZ72458		2.88	14.05	<0.05	2.3	0.043	1.23	29.6	21.2	0.65	433	1.13	1.19	10.7	27.5	310
ZZ72459		3.17	14.35	0.05	2.4	0.041	1.21	30.4	22.3	0.71	401	1.18	1.22	10.7	31.6	330
ZZ72460		3.02	15.50	0.06	2.5	0.041	1.33	32.1	22.3	0.63	378	1.31	1.26	10.7	29.2	350
ZZ72461		2.61	14.55	0.06	2.1	0.031	1.26	26.4	20.1	0.60	424	1.06	1.37	9.3	22.7	560
ZZ72462		3.18	14.90	0.07	2.5	0.042	1.39	33.2	25.1	0.61	681	1.26	1.13	9.8	45.9	680
ZZ72463		3.21	14.80	0.07	2.7	0.051	1.50	35.2	25.3	0.50	975	1.46	0.78	10.1	58.3	980
ZZ72464		3.12	15.95	0.06	2.3	0.042	1.29	29.3	23.3	0.59	1300	1.83	1.25	10.6	39.9	380
ZZ72465		2.80	17.00	0.07	2.7	0.053	1.80	31.9	24.1	0.41	1500	2.35	0.44	10.6	60.9	940
ZZ72466		2.50	16.35	0.06	2.8	0.043	1.57	30.6	21.7	0.42	938	1.91	0.72	9.7	40.2	730
ZZ72467		2.55	13.95	0.05	2.1	0.040	1.36	22.2	18.2	0.49	1800	1.22	0.79	7.8	43.1	880
ZZ72468		4.19	20.7	0.14	3.3	0.067	2.21	55.6	30.1	0.47	3930	2.23	0.53	15.5	87.4	1530
ZZ72469		4.88	18.30	0.08	2.4	0.059	1.65	30.0	35.9	1.08	1120	1.47	0.88	9.6	54.8	720
ZZ72470		4.17	21.4	0.11	2.9	0.061	2.15	42.2	38.6	1.02	909	1.26	0.88	11.6	51.0	750
ZZ72471		3.94	19.80	0.12	2.7	0.056	2.20	51.0	31.7	0.66	801	1.38	0.65	12.7	39.9	860
ZZ72472		3.63	21.6	0.09	3.2	0.065	2.45	55.9	31.8	0.57	559	1.28	0.70	15.9	40.4	710
ZZ72473		3.57	26.4	0.12	3.3	0.075	2.93	48.1	44.9	0.64	350	0.95	0.85	19.4	37.5	630
ZZ72474		3.56	20.6	0.11	3.0	0.058	2.17	57.0	34.5	0.65	1040	1.09	0.83	14.7	48.3	660
ZZ72475		3.52	20.6	0.11	3.2	0.062	2.24	48.3	32.2	0.66	1180	1.33	0.69	14.9	50.3	920
ZZ72476		3.32	21.2	0.21	3.4	0.072	2.54	49.1	33.8	0.68	471	1.39	0.61	17.7	37.0	870
ZZ72477		3.88	18.50	0.18	3.0	0.068	2.08	46.0	33.7	0.80	637	1.78	0.60	16.6	48.3	1120
ZZ72478		3.84	19.35	0.19	2.7	0.071	2.15	45.1	32.8	0.79	526	1.39	0.61	15.5	41.8	950
ZZ72479		3.03	17.70	0.17	2.9	0.066	1.87	30.3	23.2	0.71	824	1.60	1.84	9.5	42.8	460
ZZ72480		3.41	19.60	0.20	2.7	0.227	2.08	32.6	37.7	0.71	2480	1.58	0.97	9.6	55.0	400



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72441		15.7	31.6	0.002	0.02	1.60	34.9	1	1.5	138.0	0.80	<0.05	3.5	0.850	0.23	0.8
ZZ72442		83.0	123.0	0.002	0.03	5.34	21.1	2	4.1	225	0.68	0.07	15.4	0.360	0.89	2.3
ZZ72443		13.9	53.6	0.002	0.01	1.10	9.0	1	1.5	205	0.65	<0.05	9.7	0.354	0.46	1.8
ZZ72444		22.5	99.8	<0.002	0.01	1.96	13.4	1	2.0	200	0.76	<0.05	11.4	0.411	0.67	2.2
ZZ72445		587	292	0.002	0.16	133.5	27.0	3	9.2	137.5	0.90	<0.05	23.6	0.427	1.96	3.1
ZZ72446		19.7	63.9	0.002	0.01	5.11	17.9	1	2.1	165.0	0.75	0.05	10.7	0.365	0.79	3.4
ZZ72447		15.4	114.0	0.002	0.01	3.41	14.8	1	2.1	196.0	0.71	0.05	11.3	0.357	0.96	2.3
ZZ72448		16.9	88.9	0.002	0.01	13.20	15.9	2	2.0	171.5	0.65	0.05	11.1	0.346	0.77	2.4
ZZ72449		13.8	135.0	0.002	0.02	23.2	18.9	2	2.7	392	0.78	0.05	13.1	0.374	1.34	2.5
ZZ72450		16.2	130.5	0.002	0.01	1.57	16.5	1	2.4	271	0.71	<0.05	12.6	0.367	1.06	2.4
ZZ72451		24.0	112.0	0.002	0.01	2.08	12.1	1	2.7	197.0	1.06	<0.05	11.9	0.408	1.05	2.6
ZZ72452		26.4	157.0	0.002	0.02	3.58	16.1	2	3.5	160.5	1.35	0.06	16.6	0.461	1.35	3.5
ZZ72453		30.3	103.5	<0.002	0.01	2.33	11.6	1	2.9	199.5	1.03	0.05	10.2	0.433	0.92	2.4
ZZ72454		23.9	87.6	0.002	0.01	2.32	11.6	1	2.1	195.5	0.93	<0.05	10.6	0.436	0.70	2.4
ZZ72455		27.9	103.0	0.002	0.01	3.58	13.3	1	2.1	202	0.79	0.05	9.9	0.441	0.73	2.4
ZZ72456		14.3	80.2	0.002	0.01	1.97	10.6	1	1.8	214	0.74	<0.05	7.3	0.404	0.52	2.1
ZZ72457		16.7	65.6	0.002	0.01	1.77	10.5	1	1.6	209	0.68	<0.05	8.1	0.391	0.48	2.3
ZZ72458		20.2	70.2	0.002	0.01	1.80	10.6	1	1.9	200	0.78	<0.05	7.5	0.415	0.54	2.4
ZZ72459		17.6	65.7	<0.002	0.01	1.62	10.8	1	1.6	202	0.72	<0.05	7.6	0.398	0.50	2.3
ZZ72460		13.7	71.0	0.002	0.01	1.40	10.8	1	1.7	220	0.75	<0.05	7.2	0.418	0.54	2.2
ZZ72461		12.9	60.3	0.002	0.02	1.18	9.2	1	1.4	255	0.65	<0.05	6.4	0.375	0.48	2.2
ZZ72462		14.9	73.5	<0.002	0.01	2.02	11.7	2	1.6	219	0.67	0.05	8.5	0.384	0.55	2.4
ZZ72463		15.4	94.7	0.002	0.02	1.75	13.6	2	1.8	187.0	0.69	<0.05	9.7	0.373	0.60	2.7
ZZ72464		14.2	67.3	0.002	0.01	1.75	10.6	1	1.8	224	0.75	0.05	7.1	0.411	0.60	2.1
ZZ72465		17.7	116.5	0.002	0.05	2.61	14.8	2	2.2	186.5	0.73	0.05	8.8	0.367	0.75	3.0
ZZ72466		15.4	95.2	<0.002	0.04	2.00	12.5	2	1.9	194.5	0.66	<0.05	8.1	0.352	0.63	2.6
ZZ72467		13.4	77.9	0.002	0.06	1.69	10.5	1	1.9	207	0.54	<0.05	6.3	0.296	0.60	2.2
ZZ72468		22.2	119.5	0.002	0.02	2.97	15.2	2	2.2	141.5	0.95	0.12	13.8	0.448	0.90	2.6
ZZ72469		35.8	85.6	0.002	0.06	1.32	21.3	2	1.9	174.5	0.65	0.08	8.2	0.346	2.01	2.3
ZZ72470		26.5	116.5	0.002	0.02	1.63	22.4	1	2.2	148.5	0.77	<0.05	11.6	0.406	2.15	2.5
ZZ72471		22.8	117.5	0.002	0.06	1.47	16.9	2	2.1	147.0	0.88	<0.05	13.0	0.404	1.73	2.6
ZZ72472		19.7	137.0	0.002	0.02	1.89	16.7	2	2.4	128.0	1.01	0.05	15.2	0.465	1.07	2.7
ZZ72473		20.8	157.0	0.002	0.01	1.39	21.1	1	2.9	166.0	1.23	0.06	15.2	0.538	1.35	2.8
ZZ72474		16.6	118.5	0.002	0.02	2.01	16.0	1	2.2	168.5	0.90	0.05	13.8	0.449	0.83	2.7
ZZ72475		19.3	127.0	<0.002	0.04	2.73	15.8	2	3.6	172.0	0.91	0.09	13.1	0.445	0.89	2.8
ZZ72476		20.9	140.0	<0.002	0.03	2.07	16.4	1	3.2	162.5	1.13	0.06	13.1	0.488	1.30	2.8
ZZ72477		22.9	112.0	<0.002	0.04	1.92	16.6	2	2.1	165.5	1.00	0.07	11.4	0.476	1.07	2.9
ZZ72478		22.1	112.0	<0.002	0.04	1.65	20.1	2	2.2	149.0	0.96	0.08	11.0	0.470	1.76	2.9
ZZ72479		60.4	78.8	<0.002	0.01	2.25	9.9	1	3.2	379	0.63	0.05	7.6	0.346	0.56	2.1
ZZ72480		180.0	116.0	<0.002	0.01	5.60	15.8	1	4.5	244	0.66	0.07	8.8	0.373	1.03	1.9



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72441		257	0.9	23.8	124	24.5
ZZ72442		125	2.4	17.2	155	92.2
ZZ72443		98	1.1	9.3	67	66.3
ZZ72444		120	1.3	10.7	107	71.3
ZZ72445		136	3.2	17.1	673	112.0
ZZ72446		134	1.2	16.8	104	83.6
ZZ72447		179	1.3	12.0	105	94.0
ZZ72448		129	1.3	15.7	118	83.9
ZZ72449		124	2.7	13.8	188	109.0
ZZ72450		124	1.2	12.2	83	117.0
ZZ72451		158	1.5	14.2	123	94.3
ZZ72452		230	2.0	18.8	170	127.5
ZZ72453		146	1.6	11.7	106	90.7
ZZ72454		150	1.5	13.5	90	80.3
ZZ72455		156	1.8	11.5	107	86.9
ZZ72456		127	1.5	11.4	80	82.2
ZZ72457		122	1.4	12.5	70	76.6
ZZ72458		126	1.4	12.9	66	81.9
ZZ72459		126	1.3	14.1	66	82.1
ZZ72460		127	1.4	11.1	71	89.2
ZZ72461		107	1.1	10.2	73	78.4
ZZ72462		129	1.3	17.9	103	90.3
ZZ72463		141	1.5	20.3	113	96.7
ZZ72464		129	1.5	12.2	91	80.5
ZZ72465		155	2.1	18.4	112	102.0
ZZ72466		128	2.2	14.3	88	105.0
ZZ72467		104	1.5	12.2	94	75.9
ZZ72468		150	2.9	15.6	173	119.5
ZZ72469		161	1.6	14.0	219	92.9
ZZ72470		166	1.7	15.0	178	100.5
ZZ72471		139	1.9	13.5	121	97.9
ZZ72472		155	2.1	14.4	106	109.5
ZZ72473		165	2.6	15.2	104	115.5
ZZ72474		145	2.0	15.3	119	106.5
ZZ72475		156	2.8	15.5	143	118.5
ZZ72476		148	2.1	14.5	137	116.5
ZZ72477		154	1.8	16.1	197	109.0
ZZ72478		152	1.7	16.8	140	100.5
ZZ72479		92	1.2	13.8	175	114.0
ZZ72480		123	2.2	11.2	320	100.5



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72481		0.20	0.041	2.42	5.58	219	6080	1.70	0.30	0.73	0.30	65.3	11.2	110	8.11	74.7
ZZ72482		0.20	0.009	0.63	6.12	74.6	3900	1.54	0.21	1.18	0.31	66.1	13.4	102	5.31	38.2
ZZ72483		0.12	0.020	1.01	5.89	189.0	>10000	1.82	0.31	0.56	0.68	58.9	9.2	114	9.10	90.2
ZZ72484		0.15	0.011	4.21	5.84	89.4	2480	1.53	0.20	1.34	0.44	57.2	10.9	82	3.91	40.4
ZZ72485		0.14	0.003	1.01	6.60	137.5	2790	1.36	0.25	1.28	1.59	61.1	11.2	70	5.44	28.0
ZZ72486		0.20	0.013	0.45	6.08	203	3530	1.53	0.23	1.09	0.78	58.9	11.8	76	4.06	40.6
ZZ72487		0.18	0.007	1.29	6.44	76.9	1690	1.25	0.21	1.31	0.49	54.9	8.2	60	3.66	23.8
ZZ72488		0.13	0.008	0.42	6.06	19.7	4190	1.57	0.20	1.78	0.23	69.4	11.8	106	5.24	32.7
ZZ72489		0.20	0.003	0.38	6.65	22.4	2550	1.35	0.19	1.49	0.12	60.9	11.7	101	3.51	22.7
ZZ72490		0.20	0.003	0.11	6.61	15.5	1000	1.24	0.18	1.45	0.12	57.6	11.2	76	2.22	16.0
ZZ72491		0.25	0.002	0.13	6.44	13.9	1060	1.51	0.20	1.35	0.07	66.9	17.7	124	2.99	26.5
ZZ72492		0.20	0.003	0.19	5.26	14.1	1220	1.13	0.16	1.42	0.19	43.1	44.7	380	3.69	30.4
ZZ72493		0.16	0.003	0.13	6.51	10.2	1350	1.27	0.18	1.44	0.10	55.9	15.7	117	3.05	28.8
ZZ72494		0.17	0.010	0.12	5.96	10.2	1100	1.18	0.19	1.45	0.09	58.3	11.4	75	1.95	20.2
ZZ72495		0.19	0.002	0.22	7.59	16.5	2200	1.53	0.20	1.22	0.14	64.1	20.2	163	4.27	52.4
ZZ72496		0.12	0.019	0.32	7.14	53.4	4040	1.61	0.20	2.37	0.13	68.1	21.5	235	5.58	72.9
ZZ72497		0.13	0.011	0.20	7.03	66.7	1780	1.58	0.18	1.38	0.30	65.0	26.0	283	5.00	42.6
ZZ72498		0.15	0.008	1.12	7.75	98.4	1820	1.90	0.17	1.42	1.24	76.8	19.3	168	6.68	43.7
ZZ72499		0.23	0.003	0.14	7.54	16.0	1160	1.70	0.18	1.30	0.10	79.8	17.9	101	3.25	32.6
ZZ72500		0.27	0.020	0.45	6.54	165.0	1570	1.42	0.15	1.58	2.29	70.0	30.4	362	5.68	50.3
ZZ72501		0.09	0.026	0.24	4.56	30.3	2390	1.34	0.16	3.51	0.35	42.4	8.0	63	3.99	42.7
ZZ72502		0.16	0.010	0.33	6.77	43.8	3550	1.89	0.22	1.98	0.55	72.3	13.5	91	6.26	50.7
ZZ72503		0.20	0.012	0.27	7.47	33.9	3100	2.17	0.25	1.62	0.69	76.6	16.3	100	7.27	61.9
ZZ72504		0.17	0.006	0.21	6.18	22.5	2510	1.70	0.21	1.22	0.16	67.8	13.9	87	4.82	41.2
ZZ72505		0.20	0.006	0.30	6.55	30.4	1350	1.64	0.19	1.22	0.46	68.1	14.1	80	4.17	23.0
ZZ72506		0.21	0.004	0.19	6.94	75.3	1110	1.79	0.19	1.19	0.24	75.2	14.4	100	3.99	23.1
ZZ72507		0.13	0.002	0.13	7.92	17.7	1210	2.06	0.20	1.07	0.26	85.8	13.5	72	7.10	21.7
ZZ72508		0.14	0.005	0.20	6.69	18.9	1050	1.91	0.22	1.04	0.18	67.3	12.6	77	5.11	39.9
ZZ72509		0.15	0.016	1.08	9.51	171.5	1840	2.99	0.27	0.55	0.65	99.0	18.2	110	9.26	41.9
ZZ72510		0.12	0.005	0.36	7.31	69.2	1390	1.79	0.21	1.14	0.60	83.7	13.7	92	5.95	28.6
ZZ72511		0.18	0.002	0.34	7.53	22.9	1690	1.81	0.20	1.47	0.48	84.7	18.2	120	4.59	26.9
ZZ72512		0.12	0.002	0.45	8.78	46.3	1960	2.00	0.21	1.22	0.60	90.4	14.7	102	6.85	28.6
ZZ72513		0.17	0.008	0.52	9.76	50.4	1880	2.83	0.22	0.74	0.27	113.0	17.9	124	11.10	32.1
ZZ72514		0.19	0.003	0.24	8.78	38.6	1880	2.48	0.21	0.93	0.26	91.6	14.0	112	8.01	23.5
ZZ72515		0.15	0.005	0.59	7.73	40.9	1730	1.93	0.22	1.18	0.88	80.4	16.4	99	6.28	28.7
ZZ72516		0.19	0.010	0.43	7.86	36.4	2060	2.11	0.24	1.21	0.71	99.3	14.8	111	7.28	42.5
ZZ72517		0.23	0.009	0.41	7.31	32.3	1850	1.83	0.21	1.27	0.58	81.3	14.4	104	5.03	42.9
ZZ72518		0.16	0.011	0.91	7.70	50.3	1980	1.94	0.26	1.22	1.30	88.6	15.3	110	6.49	42.4
ZZ72519		0.15	0.002	0.18	6.16	16.1	1310	1.40	0.18	1.45	0.24	62.2	11.3	70	2.65	17.5
ZZ72520		0.18	0.009	0.35	6.72	37.0	1750	1.66	0.24	1.58	0.22	78.2	10.7	83	4.33	32.3



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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	
	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	
ZZ72481		3.21	15.20	0.18	2.8	0.237	1.89	32.5	22.6	0.71	698	3.01	0.62	8.7	68.7	570
ZZ72482		3.50	15.30	0.16	2.4	0.113	1.46	32.4	22.7	0.72	815	1.65	1.22	10.0	58.0	370
ZZ72483		3.45	16.00	0.16	2.5	0.269	2.26	30.4	15.9	0.67	570	2.92	0.46	8.2	74.2	490
ZZ72484		3.27	13.70	0.15	2.0	0.574	1.35	29.1	19.4	0.81	573	1.42	1.27	9.8	42.2	520
ZZ72485		3.24	17.00	0.14	2.7	0.098	1.50	30.5	21.2	0.59	1300	2.17	1.40	11.3	36.4	360
ZZ72486		3.69	14.65	0.13	2.5	0.073	1.18	30.7	20.8	0.58	1360	1.51	1.17	10.2	49.3	390
ZZ72487		2.88	15.85	0.15	2.3	0.073	1.43	27.6	21.9	0.61	372	1.73	1.62	10.8	32.4	240
ZZ72488		3.26	14.45	0.18	2.4	0.042	1.42	38.5	26.0	0.67	1220	1.67	1.03	10.2	45.6	740
ZZ72489		3.44	14.25	0.16	2.2	0.043	1.34	30.9	24.4	0.72	877	1.47	1.35	10.4	36.1	360
ZZ72490		3.04	14.40	0.14	2.2	0.041	1.19	28.4	24.0	0.85	488	1.39	1.75	10.7	39.7	190
ZZ72491		3.61	14.50	0.15	2.2	0.047	1.29	31.1	23.9	1.42	595	1.37	1.44	11.2	111.5	290
ZZ72492		3.66	11.50	0.15	1.8	0.040	1.11	20.9	19.4	3.52	1080	0.87	1.12	7.5	627	320
ZZ72493		3.36	14.55	0.13	2.2	0.047	1.29	28.3	24.6	1.07	1000	1.14	1.61	9.9	71.5	260
ZZ72494		3.15	13.00	0.14	2.1	0.038	1.14	28.3	20.1	0.77	665	1.14	1.49	9.5	33.2	260
ZZ72495		4.64	16.70	0.14	2.2	0.056	1.35	29.7	34.2	1.21	1420	1.59	1.32	15.2	71.2	390
ZZ72496		4.37	16.95	0.18	2.7	0.059	1.91	35.9	34.3	1.26	1260	1.51	0.96	10.9	158.0	810
ZZ72497		4.43	16.30	0.16	2.3	0.059	1.58	33.1	35.5	1.95	861	1.17	1.14	11.4	210	640
ZZ72498		4.40	19.25	0.18	2.5	0.178	2.02	39.9	36.7	1.27	868	1.12	1.07	17.1	88.1	750
ZZ72499		4.51	17.35	0.20	2.6	0.060	1.41	41.8	36.0	0.95	663	1.71	1.43	13.6	53.0	220
ZZ72500		5.06	16.00	0.17	2.1	0.147	1.36	36.1	33.8	3.04	1140	1.36	1.06	12.5	283	790
ZZ72501		2.12	10.80	0.16	1.7	0.039	1.19	22.7	18.7	0.61	830	1.04	0.49	8.4	33.8	940
ZZ72502		3.41	17.75	0.18	2.7	0.060	1.90	37.2	28.1	0.79	1180	1.48	0.84	12.1	42.5	890
ZZ72503		3.86	19.15	0.19	2.9	0.067	2.06	39.6	32.5	0.84	840	1.43	0.87	14.9	53.6	920
ZZ72504		3.29	15.45	0.16	2.5	0.056	1.63	33.9	28.9	0.74	2180	1.55	1.16	10.9	56.1	320
ZZ72505		3.45	16.55	0.14	2.2	0.082	1.42	34.8	28.8	0.74	1020	1.21	1.20	12.2	37.4	180
ZZ72506		3.94	16.05	0.19	2.0	0.058	1.51	39.9	32.4	0.79	778	1.19	1.26	12.8	42.8	290
ZZ72507		3.64	19.65	0.16	2.5	0.075	2.13	42.6	39.7	0.85	883	1.28	1.00	12.5	28.1	290
ZZ72508		3.72	16.75	0.17	2.4	0.050	1.56	36.5	34.7	0.77	733	2.83	1.06	12.5	34.4	270
ZZ72509		4.81	25.8	0.22	3.3	0.158	3.29	51.1	55.6	0.91	856	1.58	0.71	19.9	51.5	640
ZZ72510		3.60	18.45	0.19	3.1	0.205	2.08	41.8	38.1	0.73	700	1.83	1.18	17.8	35.1	450
ZZ72511		4.23	18.30	0.21	3.0	0.072	1.87	41.4	37.8	0.75	1020	1.75	1.16	16.5	44.7	540
ZZ72512		3.76	22.1	0.19	3.2	0.085	2.43	45.4	42.7	0.71	807	1.81	1.17	17.2	35.0	650
ZZ72513		4.25	26.0	0.21	3.7	0.097	3.50	54.2	54.6	0.60	757	2.11	0.53	20.9	44.8	650
ZZ72514		3.86	23.4	0.20	3.3	0.089	2.74	44.4	53.4	0.61	497	1.45	0.85	19.6	40.2	400
ZZ72515		4.23	19.05	0.18	3.0	0.100	2.21	38.5	40.5	0.69	1160	1.80	0.88	15.7	44.2	670
ZZ72516		3.93	19.70	0.21	3.4	0.089	2.47	51.2	44.8	0.84	473	1.84	0.73	18.0	54.5	1010
ZZ72517		3.93	16.60	0.18	3.0	0.141	1.89	42.6	36.3	0.96	632	1.56	1.04	14.9	48.8	650
ZZ72518		4.00	18.90	0.18	3.1	0.256	2.25	45.9	41.0	0.90	538	1.94	0.90	17.4	53.9	740
ZZ72519		3.16	13.80	0.15	2.1	0.043	1.36	29.8	24.2	0.80	748	1.56	1.37	10.7	28.1	430
ZZ72520		3.51	15.75	0.19	2.6	0.056	1.71	40.2	31.6	0.89	579	1.44	1.17	13.7	38.3	750



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72481		714	112.5	<0.002	0.06	12.85	14.9	3	30.4	179.5	0.58	0.10	8.8	0.360	1.06	2.1
ZZ72482		196.5	82.9	<0.002	0.01	4.13	14.1	2	5.6	228	0.68	0.05	8.2	0.392	0.64	1.9
ZZ72483		212	137.0	<0.002	0.06	8.56	14.5	2	13.8	141.0	0.52	0.09	8.4	0.313	0.97	1.9
ZZ72484		1570	76.4	<0.002	0.03	10.20	13.1	2	23.0	235	0.67	0.08	7.4	0.375	0.53	1.7
ZZ72485		171.0	77.6	<0.002	0.02	4.54	10.9	1	7.4	287	0.77	0.08	7.4	0.385	0.78	1.8
ZZ72486		138.0	62.2	<0.002	0.04	6.53	12.4	1	4.0	233	0.67	0.17	7.4	0.363	0.72	2.0
ZZ72487		180.5	70.3	<0.002	0.01	3.53	9.1	<1	6.5	292	0.76	0.06	6.3	0.382	0.59	1.9
ZZ72488		17.6	78.8	<0.002	0.03	2.49	12.8	2	1.6	226	0.70	0.05	8.7	0.381	0.57	2.1
ZZ72489		15.9	58.2	<0.002	0.01	1.83	12.0	1	1.7	252	0.72	0.05	7.8	0.441	0.53	1.8
ZZ72490		13.2	48.1	<0.002	0.01	1.06	10.2	<1	1.5	297	0.72	0.05	6.7	0.424	0.39	1.7
ZZ72491		14.8	63.8	<0.002	0.01	1.91	13.4	1	1.7	241	0.82	0.06	8.1	0.412	0.45	1.9
ZZ72492		11.7	45.6	<0.002	0.02	3.64	12.2	1	1.1	219	0.50	<0.05	5.3	0.338	0.34	1.4
ZZ72493		13.5	58.9	<0.002	0.01	1.48	12.8	1	1.3	287	0.66	<0.05	6.8	0.377	0.42	2.0
ZZ72494		12.5	48.2	<0.002	0.01	1.15	11.7	1	1.3	264	0.66	0.05	7.1	0.388	0.39	1.7
ZZ72495		14.4	69.4	<0.002	0.02	2.90	20.9	2	1.6	197.0	0.92	0.05	7.8	0.533	0.52	2.1
ZZ72496		15.2	94.0	<0.002	0.03	5.19	18.8	2	2.7	197.0	0.74	0.07	9.1	0.481	0.57	2.0
ZZ72497		17.0	84.1	<0.002	0.02	6.21	17.7	1	2.5	195.0	0.76	0.05	8.6	0.472	0.59	1.9
ZZ72498		340	108.0	<0.002	0.02	7.50	20.7	1	8.5	215	1.04	<0.05	9.1	0.630	0.67	2.2
ZZ72499		18.8	71.1	<0.002	0.01	1.48	15.4	1	1.7	240	0.83	<0.05	9.3	0.499	0.49	1.9
ZZ72500		86.3	73.3	<0.002	0.03	7.62	21.1	2	6.0	183.0	0.82	0.06	8.2	0.605	0.50	2.1
ZZ72501		16.7	67.6	<0.002	0.13	1.37	9.7	1	1.3	226	0.56	<0.05	6.3	0.285	0.50	5.0
ZZ72502		32.6	103.5	<0.002	0.06	1.57	15.1	2	2.2	204	0.83	0.05	9.5	0.400	1.11	3.0
ZZ72503		21.3	114.5	<0.002	0.05	1.88	17.0	2	2.7	190.5	0.93	0.06	10.7	0.460	1.12	3.7
ZZ72504		33.7	84.3	<0.002	0.02	1.94	14.4	2	2.1	224	0.75	0.07	9.3	0.405	0.54	2.1
ZZ72505		52.3	81.5	<0.002	0.01	1.75	14.6	1	3.3	208	0.87	<0.05	8.6	0.434	0.56	1.8
ZZ72506		42.7	80.0	<0.002	0.01	1.77	15.0	1	3.1	214	0.84	0.05	9.0	0.446	0.58	1.7
ZZ72507		37.2	110.5	<0.002	0.01	2.20	13.3	1	3.0	197.0	0.85	<0.05	11.1	0.405	0.67	1.5
ZZ72508		21.2	88.0	<0.002	0.01	2.10	13.7	2	2.1	177.0	0.83	0.05	10.5	0.391	0.58	2.2
ZZ72509		195.0	171.5	<0.002	0.02	4.48	20.4	2	11.4	113.5	1.22	<0.05	16.3	0.527	1.00	2.4
ZZ72510		86.7	115.0	<0.002	0.01	3.11	14.1	1	14.5	227	1.08	0.05	10.5	0.537	0.69	2.4
ZZ72511		35.8	81.5	<0.002	0.02	1.88	14.6	1	3.1	250	1.00	0.05	9.2	0.584	0.57	2.1
ZZ72512		32.5	124.5	<0.002	0.02	2.50	14.2	1	5.5	258	1.07	<0.05	11.1	0.535	0.80	2.4
ZZ72513		28.2	174.5	0.002	0.02	4.02	20.1	1	6.9	153.0	1.30	0.05	16.3	0.610	1.08	2.9
ZZ72514		40.6	132.0	0.002	0.02	3.64	16.3	1	6.3	203	1.17	<0.05	12.8	0.552	0.92	2.4
ZZ72515		79.0	115.0	<0.002	0.01	3.64	13.8	1	5.5	210	0.95	<0.05	11.6	0.490	0.73	2.8
ZZ72516		41.7	128.0	0.002	0.02	3.15	14.8	2	4.8	172.5	1.11	0.05	14.3	0.539	0.83	3.7
ZZ72517		123.5	93.0	<0.002	0.01	3.86	14.1	2	5.8	201	0.96	0.06	12.0	0.493	0.67	3.0
ZZ72518		305	112.5	<0.002	0.02	8.11	14.3	2	9.2	187.0	1.06	0.05	13.1	0.519	0.77	2.6
ZZ72519		20.7	60.1	0.002	0.01	1.28	10.5	1	1.6	236	0.73	<0.05	7.9	0.398	0.49	1.8
ZZ72520		25.7	85.4	0.003	0.02	3.01	12.8	1	2.4	221	0.87	0.05	11.6	0.449	0.62	2.6



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72481		161	3.0	12.7	178	100.5
ZZ72482		129	1.7	15.2	168	80.5
ZZ72483		171	2.0	11.9	267	89.3
ZZ72484		131	1.6	14.9	183	72.1
ZZ72485		138	2.5	10.0	357	98.6
ZZ72486		138	2.0	14.7	305	79.1
ZZ72487		108	1.7	9.6	125	84.5
ZZ72488		114	1.7	21.2	99	86.7
ZZ72489		129	1.2	15.6	83	81.7
ZZ72490		98	1.1	10.8	63	81.0
ZZ72491		112	1.3	16.9	65	74.5
ZZ72492		98	1.3	11.2	78	66.5
ZZ72493		105	1.4	14.7	63	89.3
ZZ72494		99	1.1	12.7	58	69.7
ZZ72495		154	1.7	19.1	94	87.8
ZZ72496		174	1.4	22.2	109	104.0
ZZ72497		140	1.2	16.5	126	79.3
ZZ72498		156	1.6	18.0	426	95.3
ZZ72499		136	1.1	18.7	89	95.0
ZZ72500		164	1.8	20.2	508	108.5
ZZ72501		78	1.3	11.5	86	60.4
ZZ72502		119	1.8	14.5	125	97.4
ZZ72503		135	2.0	17.9	123	109.5
ZZ72504		127	1.5	15.7	105	87.4
ZZ72505		118	1.3	16.7	180	76.0
ZZ72506		119	1.1	18.9	140	69.1
ZZ72507		99	1.2	14.7	149	85.7
ZZ72508		141	1.5	15.3	90	89.4
ZZ72509		127	1.9	17.3	262	115.0
ZZ72510		156	1.9	12.6	292	108.5
ZZ72511		146	1.3	14.6	208	117.0
ZZ72512		150	1.5	10.7	197	113.5
ZZ72513		169	2.2	14.4	143	127.5
ZZ72514		152	1.9	13.2	161	115.5
ZZ72515		149	1.5	13.9	259	104.0
ZZ72516		163	1.5	17.3	209	123.5
ZZ72517		156	1.6	18.9	258	102.0
ZZ72518		172	1.7	16.8	359	117.0
ZZ72519		123	1.0	12.2	105	71.9
ZZ72520		144	1.5	17.0	117	88.5



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72521		0.21	0.012	0.23	7.63	18.8	2320	2.02	0.27	1.60	0.59	92.0	12.9	89	6.14	36.6
ZZ72522		0.18	0.005	0.27	6.97	14.7	1780	1.58	0.22	1.90	0.24	95.9	9.8	71	4.76	24.3
ZZ72523		0.20	0.005	0.14	6.62	19.0	2450	1.61	0.22	1.48	0.14	78.8	13.9	89	3.94	36.6
ZZ72524		0.21	0.004	0.16	5.65	12.0	1440	1.27	0.17	1.76	0.14	63.6	10.7	72	2.60	23.4
ZZ72525		0.22	0.011	0.29	6.79	40.1	7080	1.64	0.24	1.34	0.19	73.4	13.2	103	5.37	68.7
ZZ72526		0.24	0.012	0.28	6.44	36.2	5510	1.54	0.24	1.31	0.24	71.0	11.5	102	4.93	74.0
ZZ72527		0.24	0.015	0.30	6.79	26.8	8780	1.80	0.26	0.87	0.13	75.8	15.2	113	6.49	110.5
ZZ72528		0.28	0.012	0.35	6.01	29.7	5320	1.70	0.23	1.15	0.19	69.2	15.4	101	5.82	92.1
ZZ72529		0.27	0.018	0.40	5.75	27.8	5900	1.70	0.26	0.84	0.17	71.3	19.4	95	6.64	126.5
ZZ72530		0.13	0.008	0.25	5.36	15.0	4020	1.42	0.19	1.49	0.28	64.8	13.5	89	7.59	59.4
ZZ72531		0.17	0.018	0.85	4.27	43.0	1160	1.08	0.16	3.10	1.37	49.1	10.2	71	4.70	65.9
ZZ72532		0.19	0.015	0.77	4.73	39.1	2130	1.15	0.19	2.84	1.07	53.1	7.7	97	6.98	47.1
ZZ72533		0.26	0.015	0.45	5.32	48.5	2770	1.31	0.18	1.78	0.21	59.6	9.9	94	5.13	51.9
ZZ72534		0.19	0.020	0.43	7.13	52.7	5170	1.88	0.21	1.83	0.27	50.6	8.1	123	6.81	58.8
ZZ72535		0.21	0.017	0.27	6.08	31.4	2540	1.48	0.18	1.75	0.24	56.2	8.5	78	3.46	52.3
ZZ72536		0.27	0.013	0.27	7.07	39.5	4600	1.93	0.22	1.44	0.17	82.3	13.2	112	6.17	55.2
ZZ72537		0.24	0.011	0.16	6.20	16.0	1590	1.35	0.17	2.35	0.24	60.6	11.8	84	2.79	32.7
ZZ72538		0.14	0.008	0.31	7.03	24.2	4050	1.84	0.18	2.56	0.37	36.8	13.4	103	6.82	39.7
ZZ72551		0.12	0.007	0.35	7.38	27.2	1480	2.00	0.19	4.30	0.72	84.1	11.5	74	9.64	36.2
ZZ72552		0.18	0.007	0.20	6.44	12.3	1060	1.29	0.16	1.33	0.16	64.0	11.2	74	2.92	17.2
ZZ72553		0.22	0.004	0.53	8.16	31.7	1380	1.76	0.22	1.34	0.62	78.0	13.8	88	5.22	31.7
ZZ72554		0.24	0.003	0.39	7.00	32.0	1200	1.68	0.17	1.24	0.24	73.8	12.3	81	4.31	24.0
ZZ72555		0.13	0.005	0.43	9.68	47.0	1570	2.96	0.21	0.40	0.35	115.5	18.2	106	8.79	30.7
ZZ72556		0.16	0.011	0.46	9.73	159.0	2360	2.87	0.27	0.99	1.07	100.5	23.0	148	10.60	41.4
ZZ72557		0.19	0.011	0.66	8.11	63.3	1690	2.26	0.19	1.03	0.24	111.5	15.7	100	6.99	37.2
ZZ72558		0.16	0.023	0.65	8.46	80.2	1950	2.70	0.24	3.70	0.80	104.5	17.0	123	8.99	45.3
ZZ72559		0.15	0.013	0.30	9.07	39.4	1810	2.62	0.22	0.88	0.28	109.5	16.7	110	8.94	31.0
ZZ72560		0.19	0.004	0.34	10.05	28.7	1630	2.60	0.29	0.94	0.29	113.0	17.2	92	8.23	36.2
ZZ72561		<0.02	0.011	0.35	8.40	72.5	1870	2.56	0.30	0.71	0.70	134.0	25.6	115	8.12	42.5
ZZ72562		0.19	0.008	0.56	9.43	34.6	1970	2.94	0.30	0.83	0.41	95.2	17.8	108	8.99	43.4
ZZ72563		0.13	0.009	0.32	9.72	88.8	2100	2.56	0.30	0.80	0.33	126.5	20.0	118	9.13	36.8
ZZ72564		0.12	0.009	0.48	8.34	55.1	2070	2.18	0.30	0.89	0.86	115.0	18.4	114	7.74	37.6
ZZ72565		0.20	0.012	0.45	7.40	48.4	1950	1.61	0.23	2.97	0.79	74.1	14.4	96	4.81	43.7
ZZ72566		0.17	0.002	0.16	6.97	19.3	1230	1.49	0.20	1.58	0.15	65.4	12.8	91	2.83	18.9
ZZ72567		0.25	0.006	0.20	5.58	12.3	1360	1.41	0.18	1.91	0.18	71.8	10.3	75	2.70	22.9
ZZ72568		0.25	0.005	0.23	6.98	15.2	1670	1.61	0.25	1.60	0.29	67.6	12.3	91	3.94	31.3
ZZ72569		0.21	0.008	0.14	5.73	11.9	1390	1.33	0.19	2.01	0.35	67.1	12.3	79	2.72	31.3
ZZ72570		0.19	0.005	0.24	5.66	13.3	1910	1.28	0.20	2.52	0.94	60.0	12.2	70	3.19	39.0
ZZ72571		0.17	0.003	0.10	6.41	11.5	1510	1.41	0.19	1.69	0.16	64.0	10.7	82	2.88	28.4
ZZ72572		0.29	0.011	0.20	6.31	10.5	2140	1.33	0.20	2.10	0.18	59.7	10.3	78	3.23	36.1



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR	0.01	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	
ZZ72521	3.76	19.00	0.20	3.1	0.060	2.13	46.6	44.1	0.88	433	1.84	0.91	17.7	48.5	990	
ZZ72522	3.13	16.90	0.19	3.2	0.041	2.00	48.0	37.4	0.76	329	1.44	1.26	14.6	33.2	850	
ZZ72523	3.66	15.35	0.17	2.6	0.051	1.54	40.7	29.0	0.91	1020	1.51	1.20	14.3	46.7	610	
ZZ72524	3.13	12.75	0.16	2.1	0.040	1.29	32.0	21.4	0.89	676	1.01	1.26	10.3	32.1	570	
ZZ72525	3.45	17.60	0.20	3.0	0.053	1.84	36.4	32.9	0.78	3110	2.41	0.96	10.9	62.4	520	
ZZ72526	3.30	16.20	0.19	2.6	0.083	1.64	34.2	26.6	0.76	1550	1.61	1.03	10.7	50.9	430	
ZZ72527	3.63	19.25	0.17	3.1	0.061	2.03	36.7	42.9	0.79	3480	2.16	0.65	10.3	84.5	550	
ZZ72528	3.40	16.45	0.17	2.6	0.054	1.74	33.9	35.6	0.70	4840	1.98	0.67	10.0	84.0	550	
ZZ72529	3.25	17.20	0.17	2.8	0.056	1.75	34.8	39.2	0.66	5660	2.69	0.49	9.2	122.5	570	
ZZ72530	2.89	14.25	0.15	2.6	0.047	1.64	32.2	37.5	0.53	4040	1.94	0.49	8.9	71.9	600	
ZZ72531	2.37	10.20	0.15	2.1	0.098	1.05	26.0	16.9	0.46	2150	1.21	0.67	6.9	50.3	1090	
ZZ72532	2.35	12.15	0.17	2.2	0.098	1.33	28.4	21.0	0.48	832	1.16	0.52	8.7	46.0	930	
ZZ72533	2.96	13.30	0.17	2.3	0.041	1.36	32.0	21.1	0.50	1540	1.45	0.78	8.9	46.0	750	
ZZ72534	2.69	17.90	0.17	2.6	0.060	1.95	26.0	25.8	0.71	637	0.65	0.79	11.3	46.2	930	
ZZ72535	3.09	14.75	0.15	2.4	0.042	1.41	30.4	21.6	0.68	731	1.22	1.26	9.8	40.2	630	
ZZ72536	3.96	17.15	0.18	2.6	0.054	1.75	42.7	27.0	0.76	875	1.47	0.93	11.3	49.9	780	
ZZ72537	3.41	13.60	0.16	2.1	0.042	1.30	30.7	20.7	0.97	749	1.17	1.42	10.1	35.3	660	
ZZ72538	3.27	17.00	0.18	2.2	0.054	1.93	19.6	23.8	0.78	996	1.19	0.68	10.1	38.7	790	
ZZ72551	2.88	19.20	0.21	2.6	0.055	2.38	43.2	43.2	0.82	661	2.49	0.57	14.5	32.4	1260	
ZZ72552	3.63	14.05	0.16	1.9	0.038	1.42	30.3	23.6	0.80	808	1.22	1.37	10.4	24.8	270	
ZZ72553	4.01	18.65	0.18	2.4	0.062	2.20	38.5	39.3	0.82	988	1.43	1.28	14.1	29.6	650	
ZZ72554	3.74	15.50	0.18	2.1	0.089	1.76	39.2	32.8	0.80	784	1.18	1.17	11.8	29.8	300	
ZZ72555	4.75	26.4	0.23	3.5	0.099	3.33	59.4	54.4	0.76	542	0.88	0.59	21.1	41.4	610	
ZZ72556	4.70	25.3	0.21	3.7	0.167	3.43	50.0	51.8	0.76	1020	2.35	0.50	20.3	69.4	990	
ZZ72557	3.97	21.0	0.24	3.5	0.095	2.58	54.9	45.2	0.68	633	1.45	0.78	18.6	42.8	540	
ZZ72558	4.31	24.9	0.22	3.7	0.085	3.31	51.0	51.9	0.92	468	2.16	0.29	22.9	55.7	1150	
ZZ72559	3.87	24.5	0.22	3.5	0.088	2.99	54.2	50.6	0.66	662	1.86	0.72	20.5	43.4	510	
ZZ72560	4.13	25.6	0.17	3.6	0.086	3.04	55.9	57.9	0.62	775	1.60	0.94	17.2	36.0	690	
ZZ72561	5.34	24.2	0.20	3.3	0.102	3.05	65.1	61.0	0.63	1500	2.04	0.49	19.2	58.7	790	
ZZ72562	4.17	26.8	0.15	3.8	0.109	3.51	48.0	62.0	0.68	739	1.55	0.88	19.5	46.7	650	
ZZ72563	4.71	25.4	0.19	3.6	0.135	2.95	64.4	60.0	0.71	896	1.98	0.66	20.3	49.8	650	
ZZ72564	4.61	20.8	0.17	3.5	0.103	2.69	59.0	51.4	0.79	559	1.93	0.54	18.5	56.5	1070	
ZZ72565	4.02	17.00	0.14	2.8	0.105	1.80	38.2	32.8	1.02	895	1.52	1.16	14.3	46.8	790	
ZZ72566	3.77	14.75	0.11	2.1	0.057	1.34	31.9	24.6	0.90	652	1.53	1.50	11.4	30.8	460	
ZZ72567	3.09	12.60	0.15	2.0	0.047	1.42	36.0	23.5	1.05	471	1.13	1.24	10.7	34.7	1100	
ZZ72568	3.63	15.60	0.11	2.2	0.051	1.57	36.8	33.9	0.93	454	1.39	1.29	12.3	40.1	620	
ZZ72569	3.14	12.85	0.13	2.1	0.042	1.40	34.3	24.0	0.91	633	1.20	1.27	11.0	35.3	940	
ZZ72570	2.89	13.20	0.12	2.2	0.046	1.33	30.7	23.6	0.79	904	1.50	1.13	10.1	37.3	830	
ZZ72571	3.39	14.05	0.13	2.1	0.050	1.36	34.4	24.4	0.94	536	1.05	1.45	10.6	33.8	520	
ZZ72572	3.12	13.90	0.12	2.2	0.046	1.46	30.9	25.2	0.92	750	1.16	1.34	9.9	35.5	740	



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Sample Description	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
	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	
ZZ72521	21.0	103.0	0.002	0.03	2.15	13.2	2	2.5	198.5	1.10	0.06	14.4	0.480	0.89	3.6	
ZZ72522	17.7	83.1	0.002	0.03	1.63	9.8	2	1.8	289	0.93	<0.05	12.6	0.429	0.68	3.5	
ZZ72523	21.9	76.8	0.003	0.02	2.08	13.3	2	2.0	217	0.91	0.05	11.7	0.474	0.62	2.6	
ZZ72524	14.3	58.2	0.002	0.02	1.30	10.9	1	1.4	243	0.68	0.05	8.0	0.392	0.45	2.0	
ZZ72525	16.5	93.9	0.002	0.02	2.21	14.9	1	1.9	234	0.77	0.12	10.0	0.438	0.65	3.0	
ZZ72526	30.9	82.7	<0.002	0.02	2.90	14.7	2	2.6	229	0.74	0.11	10.0	0.430	0.64	2.9	
ZZ72527	16.5	104.0	0.002	0.01	2.79	17.8	1	1.9	174.0	0.69	0.18	10.4	0.417	0.70	2.6	
ZZ72528	16.5	88.1	<0.002	0.02	3.07	15.0	2	1.8	174.0	0.68	0.14	9.4	0.394	0.59	3.0	
ZZ72529	16.4	95.6	0.002	0.02	3.57	16.1	2	2.2	152.5	0.60	0.20	10.2	0.351	0.64	2.8	
ZZ72530	13.1	83.8	<0.002	0.05	3.31	12.3	2	1.6	167.5	0.60	0.07	8.6	0.347	0.59	2.4	
ZZ72531	139.0	56.4	0.003	0.09	3.58	8.9	2	1.8	227	0.48	0.06	6.4	0.284	0.38	5.3	
ZZ72532	130.5	78.7	0.002	0.09	3.46	10.9	2	2.0	192.0	0.59	0.05	7.3	0.328	0.54	2.9	
ZZ72533	15.1	76.3	0.002	0.04	1.90	12.0	2	1.7	195.5	0.60	<0.05	7.7	0.331	0.62	2.7	
ZZ72534	16.7	106.0	0.002	0.08	1.81	17.2	2	2.4	198.0	0.76	0.07	8.6	0.398	1.01	3.0	
ZZ72535	14.9	69.3	<0.002	0.03	1.43	12.0	1	1.5	253	0.69	0.05	7.7	0.375	0.59	2.4	
ZZ72536	23.5	87.3	<0.002	0.04	1.66	15.9	2	1.8	183.0	0.75	0.05	11.2	0.422	1.11	2.7	
ZZ72537	13.4	60.4	0.002	0.02	1.43	12.6	1	1.5	256	0.68	<0.05	7.7	0.424	0.48	1.9	
ZZ72538	15.2	98.8	<0.002	0.09	1.38	15.5	1	1.9	197.0	0.66	0.06	6.9	0.366	1.32	2.2	
ZZ72551	40.8	127.0	<0.002	0.06	2.61	12.3	1	2.6	242	0.93	<0.05	12.3	0.398	0.78	2.1	
ZZ72552	18.1	63.4	<0.002	0.01	1.20	11.6	1	1.6	233	0.74	<0.05	7.9	0.395	0.47	1.5	
ZZ72553	66.6	106.5	0.002	0.02	1.75	13.7	1	3.4	230	0.90	0.06	11.4	0.477	0.65	1.9	
ZZ72554	114.5	86.8	<0.002	0.01	2.04	12.9	1	3.9	208	0.79	<0.05	11.3	0.408	0.57	1.7	
ZZ72555	31.0	165.5	0.003	0.01	3.22	22.0	1	4.3	84.0	1.30	<0.05	15.8	0.567	0.95	2.4	
ZZ72556	247	186.0	0.002	0.03	4.99	21.0	1	11.7	191.5	1.27	0.07	15.3	0.619	1.10	2.8	
ZZ72557	96.4	132.5	<0.002	0.01	3.83	16.0	1	7.3	176.0	1.15	<0.05	14.4	0.549	0.81	2.2	
ZZ72558	156.0	138.5	<0.002	0.05	4.62	17.7	1	5.8	199.0	1.37	0.06	14.2	0.601	1.00	3.0	
ZZ72559	46.2	145.0	<0.002	0.02	3.51	17.6	1	4.9	184.5	1.24	<0.05	14.5	0.561	0.98	2.6	
ZZ72560	83.6	140.5	<0.002	0.02	3.11	16.1	2	3.8	231	1.12	0.06	16.0	0.511	0.88	2.7	
ZZ72561	86.3	152.5	<0.002	0.02	5.01	17.7	2	5.4	152.5	1.19	<0.05	17.5	0.535	0.98	2.9	
ZZ72562	51.6	165.5	<0.002	0.01	2.99	19.1	1	4.5	186.0	1.23	0.05	15.0	0.542	0.99	2.9	
ZZ72563	101.0	148.0	0.002	0.02	5.38	18.3	1	6.8	171.5	1.23	0.05	17.6	0.587	1.02	2.7	
ZZ72564	71.4	137.5	<0.002	0.02	3.82	15.5	1	4.8	138.0	1.16	0.07	16.2	0.559	0.90	3.3	
ZZ72565	60.0	83.7	0.002	0.02	4.50	13.8	1	4.2	258	0.92	0.05	11.3	0.499	0.64	2.4	
ZZ72566	24.8	60.1	<0.002	0.01	1.40	13.3	1	1.9	248	0.77	<0.05	9.4	0.461	0.49	1.8	
ZZ72567	14.3	62.2	<0.002	0.02	1.44	11.2	1	1.7	216	0.75	<0.05	10.0	0.387	0.47	2.2	
ZZ72568	17.3	76.8	<0.002	0.01	1.40	13.0	1	1.9	230	0.84	<0.05	10.8	0.455	0.61	2.5	
ZZ72569	14.2	61.0	0.002	0.03	1.47	10.9	1	1.6	231	0.93	<0.05	8.9	0.400	0.46	2.4	
ZZ72570	16.3	60.6	<0.002	0.06	1.80	10.1	2	1.5	282	0.69	<0.05	8.2	0.368	0.50	5.0	
ZZ72571	14.8	63.3	0.002	0.01	1.28	12.1	2	1.5	258	0.75	0.05	8.7	0.413	0.49	2.2	
ZZ72572	14.8	62.6	0.002	0.04	1.49	11.6	2	1.5	280	0.70	<0.05	7.9	0.404	0.49	2.6	



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72521		165	1.4	16.9	131	109.0
ZZ72522		135	1.1	13.6	113	114.5
ZZ72523		148	1.3	19.9	103	87.5
ZZ72524		122	2.5	16.5	75	72.1
ZZ72525		177	1.8	12.4	129	114.5
ZZ72526		154	1.9	15.1	151	91.0
ZZ72527		177	2.1	12.5	162	110.0
ZZ72528		162	1.8	13.5	162	94.8
ZZ72529		171	2.1	11.5	191	102.5
ZZ72530		137	1.5	9.4	209	89.4
ZZ72531		93	1.1	13.4	197	74.2
ZZ72532		118	1.5	12.1	231	78.8
ZZ72533		114	1.5	17.4	92	108.5
ZZ72534		152	2.2	15.2	104	91.5
ZZ72535		113	1.3	16.9	97	86.0
ZZ72536		151	1.8	16.4	111	93.5
ZZ72537		132	1.3	17.2	82	69.2
ZZ72538		141	1.5	11.7	108	73.2
ZZ72551		126	1.3	12.3	122	91.0
ZZ72552		115	1.0	11.4	78	61.6
ZZ72553		128	1.3	11.5	210	79.4
ZZ72554		113	1.5	17.9	192	70.3
ZZ72555		135	1.7	15.3	301	117.5
ZZ72556		190	2.1	15.8	327	123.5
ZZ72557		146	1.8	17.0	171	115.5
ZZ72558		162	2.4	12.2	321	125.5
ZZ72559		167	2.0	15.6	148	123.5
ZZ72560		132	1.8	14.1	187	129.5
ZZ72561		154	2.0	17.4	243	117.0
ZZ72562		147	2.0	15.5	170	137.5
ZZ72563		171	2.3	15.3	217	129.0
ZZ72564		178	1.7	15.5	243	129.5
ZZ72565		155	2.0	18.8	196	99.4
ZZ72566		140	1.3	15.6	94	74.1
ZZ72567		124	1.2	18.3	91	70.2
ZZ72568		152	1.5	18.1	134	78.3
ZZ72569		130	1.6	19.5	93	72.9
ZZ72570		110	1.0	15.0	118	77.7
ZZ72571		130	1.3	18.7	89	75.6
ZZ72572		120	1.1	15.9	87	77.9



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72573		0.21	0.006	0.12	5.78	13.1	1520	1.25	0.18	2.02	0.18	68.5	12.3	90	2.33	32.9
ZZ72574		0.25	0.006	0.24	6.42	15.4	1550	1.38	0.20	2.38	0.36	59.1	11.7	85	3.30	39.2
ZZ72575		0.21	0.004	0.15	6.02	11.6	1240	1.40	0.19	1.75	0.39	60.5	12.4	71	2.51	29.0
ZZ72576		0.10	0.010	0.47	5.29	19.4	1120	1.25	0.16	2.30	0.45	55.1	7.9	76	3.29	23.3
ZZ72651		0.25	0.003	0.27	10.70	110.5	2720	3.17	0.46	0.16	0.07	107.0	53.9	327	13.00	88.6
ZZ72652		0.20	0.022	0.54	9.38	327	5560	1.80	0.18	0.38	0.08	64.8	34.1	306	15.80	127.0
ZZ72653		0.16	0.009	0.24	7.63	8.9	1190	0.81	0.06	4.72	0.09	30.4	44.6	314	5.09	171.0
ZZ72654		0.12	0.003	0.22	8.49	67.8	1190	0.82	0.08	1.46	0.08	23.1	57.3	525	2.60	98.0
ZZ72655		0.20	0.002	0.17	7.37	25.4	1940	1.44	0.20	1.38	0.18	73.2	15.7	98	4.53	22.7
ZZ72656		0.19	0.007	0.27	6.05	10.9	1550	1.51	0.18	0.86	0.80	68.5	8.1	92	4.52	23.4
ZZ72657		0.24	0.005	0.22	6.13	8.1	1060	1.14	0.17	1.88	0.31	55.4	10.6	76	2.53	19.0
ZZ72658		0.28	0.004	0.16	6.15	7.8	1090	1.17	0.15	1.53	0.25	57.8	9.6	84	2.34	19.6
ZZ72659		0.32	0.014	0.11	6.38	11.4	1070	1.31	0.18	1.39	0.15	51.3	10.0	80	2.40	18.7
ZZ72660		0.26	0.004	0.07	6.14	11.1	1100	1.31	0.16	1.45	0.12	60.2	10.7	86	2.44	20.9
ZZ72661		0.30	0.011	0.17	6.43	9.0	1060	1.14	0.17	1.54	0.32	57.4	9.2	78	2.27	22.0
ZZ72662		0.27	0.007	0.09	5.79	9.6	1090	1.28	0.15	1.35	0.30	69.2	8.9	91	2.23	22.7
ZZ72663		0.24	0.004	0.10	5.81	8.0	1090	1.18	0.14	1.28	0.14	64.0	8.5	74	2.19	21.2
ZZ72664		0.24	0.003	0.08	6.15	9.4	1080	1.24	0.15	1.38	0.10	60.3	10.3	83	2.19	20.8
ZZ72665		0.28	0.005	0.08	6.22	9.5	1320	1.24	0.15	1.28	0.09	65.2	9.2	96	2.40	24.6
ZZ72666		0.23	0.004	0.12	5.77	12.0	940	1.04	0.16	1.28	0.14	51.7	17.8	277	2.59	16.0
ZZ72667		0.23	0.003	0.25	6.32	9.8	1120	1.21	0.17	1.59	0.21	54.7	17.2	155	3.09	25.5
ZZ72668		0.31	0.005	0.15	6.58	9.8	1180	1.21	0.17	1.71	0.20	60.9	18.9	204	2.94	23.9
ZZ72669		0.25	0.003	0.15	6.48	12.0	1150	1.17	0.13	1.75	0.18	53.6	17.1	193	4.52	33.1
ZZ72670		0.25	0.071	0.13	5.94	36.7	1000	1.23	0.15	1.40	0.12	50.8	11.9	168	4.86	22.7
ZZ72671		0.18	0.004	0.08	6.15	9.2	1020	1.07	0.14	1.73	0.11	50.9	15.9	114	5.31	20.4
ZZ72672		0.22	0.003	0.15	6.34	9.3	1130	1.12	0.14	1.56	0.21	47.7	16.5	140	8.80	40.6
ZZ72673		0.26	0.012	0.08	5.90	9.4	1010	1.33	0.17	1.33	0.14	55.6	15.0	148	4.21	20.3
ZZ72674		0.20	0.002	0.04	5.81	13.2	1110	1.25	0.15	1.27	0.10	55.4	19.4	221	4.22	15.9
ZZ72675		0.21	0.014	0.13	6.31	72.7	1170	1.30	0.14	1.33	0.13	58.5	14.7	119	5.32	36.8
ZZ72676		0.23	0.040	0.11	6.05	148.0	1430	1.42	0.14	1.04	0.16	64.0	7.4	80	4.73	16.1
ZZ72677		0.18	0.005	0.41	7.45	34.0	1340	1.50	0.21	1.20	0.14	48.9	7.9	89	6.83	26.9
ZZ72678		0.23	0.008	0.12	6.39	42.8	1250	1.38	0.18	1.14	0.13	59.3	10.5	85	5.58	25.3
ZZ72679		0.26	0.003	0.05	5.68	16.4	970	1.26	0.15	1.26	0.06	54.9	9.7	105	3.76	14.2
ZZ72680		0.26	0.005	0.04	5.72	9.8	1080	1.27	0.14	1.30	0.07	53.1	20.5	268	10.30	21.9
ZZ72681		0.25	0.003	0.12	4.74	8.4	780	1.04	0.15	1.24	0.11	38.8	43.9	748	9.19	21.2
ZZ72682		0.27	0.015	0.06	5.91	8.3	1070	1.16	0.13	1.54	0.16	49.1	16.9	206	2.71	18.2
ZZ72683		0.23	0.002	0.08	5.74	8.7	1140	1.23	0.15	1.42	0.20	53.7	12.6	158	3.28	14.6
ZZ72684		0.22	0.004	0.31	6.38	8.1	1920	1.34	0.15	1.26	0.17	55.5	9.1	100	4.40	15.2
ZZ72685		0.16	0.002	0.57	7.69	6.3	4210	1.70	0.18	1.19	0.21	47.4	7.4	123	5.35	27.9
ZZ72686		0.24	0.005	73.6	5.89	6.3	1640	1.22	0.18	1.34	0.17	56.2	6.5	63	29.5	22.7



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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72573		3.42	12.40	0.13	2.1	0.042	1.31	36.2	20.7	0.94	907	1.17	1.38	11.0	39.2	640
ZZ72574		3.47	14.25	0.13	2.2	0.054	1.43	30.3	24.1	0.98	846	1.32	1.42	10.3	38.1	840
ZZ72575		3.19	13.90	0.13	2.1	0.045	1.28	31.0	23.5	0.84	648	1.14	1.45	9.9	33.7	450
ZZ72576		2.57	11.75	0.11	1.8	0.064	1.21	28.5	19.4	0.70	937	0.94	1.22	8.6	28.9	840
ZZ72651		6.00	27.1	0.18	3.7	0.103	3.39	44.2	59.5	3.80	1310	1.47	0.20	13.2	694	650
ZZ72652		6.75	22.5	0.14	2.1	0.093	2.68	31.2	33.3	1.26	1200	2.84	1.06	15.1	142.5	580
ZZ72653		6.28	16.35	0.12	0.9	0.061	1.24	15.6	64.4	2.47	1230	0.79	1.68	6.0	127.5	820
ZZ72654		7.19	18.10	0.10	0.9	0.054	0.86	11.6	85.9	2.84	1120	0.77	2.73	3.2	252	570
ZZ72655		3.91	16.55	0.12	2.3	0.054	1.74	36.4	25.5	0.80	1060	1.53	1.34	11.5	35.7	430
ZZ72656		2.81	13.60	0.11	2.3	0.042	1.86	37.3	21.6	0.62	370	2.04	0.82	10.7	38.7	870
ZZ72657		2.87	13.55	0.10	2.2	0.039	1.19	28.8	20.3	0.75	617	0.90	1.48	10.0	24.7	1000
ZZ72658		2.92	13.00	0.10	1.9	0.037	1.27	29.7	19.4	0.81	413	0.84	1.49	9.9	25.7	820
ZZ72659		3.32	13.65	0.10	2.0	0.046	1.23	27.0	20.5	0.82	382	0.98	1.48	9.8	25.0	640
ZZ72660		3.21	13.10	0.10	2.0	0.040	1.22	30.7	20.7	0.80	464	0.99	1.42	10.1	28.9	530
ZZ72661		3.14	14.00	0.11	2.1	0.040	1.20	30.0	19.8	0.76	384	1.01	1.51	9.8	28.6	650
ZZ72662		2.93	12.40	0.12	2.2	0.042	1.28	35.8	17.8	0.70	482	1.11	1.42	10.6	26.1	690
ZZ72663		2.69	12.85	0.12	2.0	0.038	1.19	33.0	19.8	0.71	339	0.86	1.48	10.6	22.8	520
ZZ72664		3.08	13.55	0.10	2.2	0.041	1.20	30.5	20.3	0.80	393	0.98	1.53	10.9	26.3	410
ZZ72665		3.10	13.55	0.12	2.2	0.042	1.25	33.5	21.0	0.82	380	0.96	1.49	11.1	33.1	490
ZZ72666		3.20	13.15	0.10	2.2	0.041	1.05	27.1	20.0	1.05	419	1.07	1.41	10.1	151.5	440
ZZ72667		3.33	13.90	0.12	2.4	0.043	1.18	27.9	21.1	1.10	724	1.03	1.50	9.9	150.5	700
ZZ72668		3.52	14.35	0.12	2.1	0.047	1.22	30.9	21.9	1.17	566	0.78	1.61	10.2	151.0	600
ZZ72669		3.75	14.40	0.12	2.1	0.048	1.17	28.2	22.6	1.21	563	0.72	1.58	9.3	134.0	620
ZZ72670		3.32	13.85	0.09	2.2	0.044	1.12	26.5	18.3	0.94	460	1.04	1.51	10.5	122.5	370
ZZ72671		3.72	15.25	0.12	1.8	0.051	0.98	26.1	25.3	1.49	556	0.52	1.47	12.9	75.9	720
ZZ72672		4.02	14.35	0.09	1.8	0.049	1.08	25.2	28.5	1.31	647	0.88	1.51	9.1	80.6	540
ZZ72673		3.13	13.95	0.10	2.0	0.043	1.22	28.6	20.9	1.26	466	1.00	1.50	10.5	151.5	350
ZZ72674		3.16	13.15	0.11	1.8	0.039	1.25	27.5	21.9	1.60	443	0.63	1.44	10.7	256	420
ZZ72675		3.87	15.65	0.10	2.2	0.054	1.15	29.4	23.5	1.26	574	0.92	1.57	13.7	60.5	540
ZZ72676		2.88	14.40	0.10	2.2	0.043	1.47	34.5	20.3	0.73	319	0.93	1.23	12.1	24.4	390
ZZ72677		3.31	19.10	0.11	2.8	0.048	1.88	26.6	25.7	0.75	379	1.44	1.49	9.9	31.7	490
ZZ72678		3.38	15.70	0.11	2.3	0.041	1.50	30.9	29.8	0.84	415	1.13	1.31	11.8	34.3	560
ZZ72679		2.75	13.30	0.11	1.8	0.043	1.18	27.5	20.7	0.91	335	0.69	1.50	10.7	69.8	390
ZZ72680		3.53	13.20	0.10	1.9	0.045	1.10	26.8	21.1	1.67	461	0.56	1.43	10.5	243	490
ZZ72681		4.09	11.35	0.08	1.5	0.038	0.82	21.1	25.5	5.00	577	0.43	1.07	7.3	842	380
ZZ72682		3.12	12.90	0.10	1.7	0.039	1.21	25.3	18.6	1.59	423	0.54	1.64	9.3	196.5	630
ZZ72683		2.83	13.00	0.11	1.8	0.039	1.18	28.0	19.9	1.33	439	0.70	1.56	10.2	111.5	490
ZZ72684		2.90	15.30	0.15	2.0	0.043	1.47	29.3	30.3	0.89	407	0.92	1.35	11.0	35.4	550
ZZ72685		2.88	19.50	0.13	2.6	0.052	2.12	26.4	34.0	0.78	374	1.74	1.48	11.9	24.9	480
ZZ72686		2.31	15.95	0.14	2.1	0.035	1.30	31.1	19.4	0.62	384	1.26	1.56	11.4	15.9	290



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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	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72573		12.9	56.6	<0.002	0.01	1.57	12.0	2	1.4	245	0.74	<0.05	9.3	0.439	0.40	2.0
ZZ72574		26.2	65.7	0.002	0.03	1.82	12.4	2	1.6	272	0.70	0.05	8.1	0.424	0.50	2.5
ZZ72575		14.7	59.2	0.002	0.01	1.21	11.1	1	1.4	259	0.70	<0.05	7.4	0.378	0.44	1.9
ZZ72576		92.6	55.5	0.002	0.05	2.04	10.2	1	1.6	241	0.62	<0.05	7.3	0.350	0.40	2.0
ZZ72651		20.4	110.5	<0.002	0.01	5.31	22.2	2	3.2	68.4	0.92	0.11	17.6	0.400	1.37	1.9
ZZ72652		22.6	134.0	<0.002	0.01	6.62	37.5	2	3.5	148.0	0.88	0.09	7.6	0.456	1.02	1.6
ZZ72653		4.4	48.3	<0.002	0.03	1.94	34.7	2	1.1	145.5	0.39	<0.05	3.1	0.674	0.34	0.8
ZZ72654		6.6	25.7	<0.002	0.02	2.28	31.3	1	0.7	131.5	0.22	0.05	2.4	0.249	0.29	0.7
ZZ72655		15.8	74.7	<0.002	0.01	1.56	13.4	1	1.6	273	0.78	<0.05	9.8	0.446	0.65	1.7
ZZ72656		13.4	85.9	<0.002	0.01	3.82	10.4	2	2.0	274	0.74	0.08	8.5	0.416	0.62	2.4
ZZ72657		13.3	49.4	0.002	0.03	1.28	10.8	1	1.4	282	0.72	<0.05	7.2	0.408	0.46	2.4
ZZ72658		11.9	52.6	0.002	0.01	1.30	10.8	1	1.4	254	0.69	<0.05	7.5	0.429	0.47	2.3
ZZ72659		13.5	50.8	<0.002	0.01	1.07	10.9	1	1.5	242	0.72	<0.05	7.4	0.410	0.48	2.3
ZZ72660		12.7	54.4	<0.002	0.01	1.45	11.2	1	1.5	243	0.72	<0.05	8.0	0.422	0.44	2.2
ZZ72661		12.6	51.1	<0.002	0.01	1.43	11.0	1	1.5	264	0.70	<0.05	7.7	0.419	0.48	2.3
ZZ72662		11.7	54.5	<0.002	0.01	1.77	10.5	1	1.5	250	0.79	<0.05	9.6	0.463	0.48	2.3
ZZ72663		12.3	52.6	<0.002	<0.01	1.29	11.1	1	1.5	245	0.75	<0.05	7.9	0.431	0.44	2.3
ZZ72664		12.4	52.4	0.002	<0.01	1.29	11.2	1	1.5	245	0.77	<0.05	7.8	0.452	0.46	2.1
ZZ72665		12.3	56.7	0.002	0.01	1.54	11.9	1	1.6	250	0.78	0.05	8.5	0.454	0.48	2.5
ZZ72666		11.6	46.1	<0.002	0.01	3.19	11.4	1	1.4	225	0.70	<0.05	6.5	0.412	0.49	2.0
ZZ72667		13.0	51.9	<0.002	0.02	1.45	12.1	1	1.5	258	0.69	<0.05	7.2	0.418	0.45	2.1
ZZ72668		12.8	53.8	<0.002	0.01	1.40	12.9	2	1.5	270	0.74	0.06	7.9	0.444	0.45	3.3
ZZ72669		10.1	54.6	<0.002	0.01	1.44	15.8	1	1.5	234	0.68	<0.05	6.8	0.483	0.42	2.5
ZZ72670		13.1	52.4	0.002	0.01	1.87	12.3	1	1.6	246	0.76	<0.05	6.3	0.477	0.43	2.1
ZZ72671		11.3	44.1	<0.002	0.01	1.54	14.6	1	1.6	298	0.90	<0.05	5.1	0.595	0.38	1.7
ZZ72672		10.4	50.6	<0.002	0.01	1.68	16.9	1	1.5	232	0.69	<0.05	5.8	0.478	0.45	1.8
ZZ72673		13.3	58.6	<0.002	0.01	1.14	11.4	1	1.6	241	0.77	<0.05	6.6	0.404	0.45	2.1
ZZ72674		12.5	59.3	<0.002	0.01	1.18	10.9	<1	1.7	231	0.82	<0.05	7.2	0.389	0.50	1.9
ZZ72675		13.8	59.8	<0.002	<0.01	2.22	15.7	1	1.8	203	0.97	<0.05	7.1	0.601	0.41	2.0
ZZ72676		26.2	82.6	<0.002	0.01	2.01	10.7	1	1.7	208	0.85	<0.05	7.8	0.415	0.56	2.0
ZZ72677		14.1	100.5	<0.002	0.01	1.38	11.1	1	1.8	281	0.69	<0.05	7.4	0.385	0.64	2.2
ZZ72678		14.7	77.1	0.002	0.01	1.53	11.7	1	1.7	219	0.85	0.06	8.1	0.410	0.55	2.1
ZZ72679		12.3	53.3	0.002	0.01	1.23	10.4	1	1.5	234	0.80	<0.05	6.4	0.401	0.43	1.9
ZZ72680		10.5	49.9	<0.002	0.01	1.90	12.9	1	1.6	224	0.74	<0.05	6.2	0.434	0.38	1.7
ZZ72681		9.1	34.5	<0.002	0.01	4.23	13.8	1	1.3	188.0	0.55	<0.05	4.7	0.307	0.35	1.6
ZZ72682		10.3	48.1	0.002	0.01	1.39	11.5	1	1.3	284	0.67	<0.05	5.9	0.392	0.39	1.6
ZZ72683		12.0	51.7	<0.002	<0.01	1.25	10.7	1	1.4	264	0.73	<0.05	6.5	0.399	0.45	1.9
ZZ72684		14.1	75.5	<0.002	0.01	1.12	12.4	1	1.8	218	0.79	<0.05	7.2	0.401	0.72	2.2
ZZ72685		19.5	101.0	<0.002	0.01	1.24	17.4	1	1.7	288	0.85	0.05	6.9	0.619	1.22	2.1
ZZ72686		13.3	66.3	<0.002	0.01	0.89	10.6	1	1.8	242	0.83	<0.05	6.2	0.459	0.52	2.1



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ72573		127	1.1	21.5	81	72.4
ZZ72574		135	1.1	18.4	108	77.9
ZZ72575		117	1.0	16.4	81	72.2
ZZ72576		109	1.0	14.8	141	62.4
ZZ72651		138	1.4	15.4	115	128.5
ZZ72652		245	2.0	19.4	124	76.7
ZZ72653		233	0.6	24.4	95	35.4
ZZ72654		217	0.6	9.4	115	34.1
ZZ72655		124	1.3	15.5	82	82.4
ZZ72656		127	1.1	15.9	111	82.3
ZZ72657		107	0.9	16.0	71	79.0
ZZ72658		117	1.2	17.0	73	67.4
ZZ72659		124	1.2	14.8	66	65.8
ZZ72660		123	1.1	15.5	67	69.5
ZZ72661		117	1.2	15.6	70	77.2
ZZ72662		119	1.0	19.7	70	72.6
ZZ72663		111	1.3	19.4	57	69.6
ZZ72664		120	1.1	16.9	60	74.4
ZZ72665		122	1.2	18.0	64	74.1
ZZ72666		113	1.1	13.8	67	68.7
ZZ72667		117	1.0	16.3	76	77.2
ZZ72668		123	1.0	17.0	70	73.3
ZZ72669		139	0.9	19.0	72	64.2
ZZ72670		127	1.4	15.4	56	67.2
ZZ72671		136	1.1	16.7	58	56.7
ZZ72672		143	1.1	17.2	66	62.3
ZZ72673		115	1.2	15.3	56	68.4
ZZ72674		115	1.1	12.1	56	59.4
ZZ72675		156	1.7	16.3	74	75.8
ZZ72676		116	1.8	13.8	61	74.2
ZZ72677		128	1.1	11.5	79	96.7
ZZ72678		132	1.4	14.6	75	77.5
ZZ72679		108	1.3	12.7	46	58.9
ZZ72680		121	1.1	14.3	53	59.5
ZZ72681		97	2.4	16.4	51	51.3
ZZ72682		108	1.2	13.6	54	56.3
ZZ72683		108	1.1	13.9	46	63.4
ZZ72684		136	1.1	13.7	56	69.6
ZZ72685		176	1.6	12.7	72	91.9
ZZ72686		113	1.1	17.1	39	71.8



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72687		0.19	0.003	0.11	6.13	11.9	1190	1.50	0.20	1.31	0.07	59.2	9.8	74	2.73	20.2
ZZ72688		0.20	0.003	0.36	7.96	47.0	1460	1.41	0.06	1.46	0.47	50.3	39.6	113	3.36	55.5
ZZ72689		0.22	0.003	0.27	6.71	8.8	1700	1.45	0.17	1.33	0.50	57.1	13.5	118	7.29	22.1
ZZ72690		0.21	0.002	0.14	5.80	9.3	1140	1.08	0.15	0.78	0.22	38.9	8.2	71	3.46	16.8
ZZ72691		0.20	0.003	0.17	6.90	12.3	1840	1.54	0.19	0.23	0.23	75.7	9.8	84	7.07	37.6
ZZ72692		0.23	0.004	0.52	6.09	11.4	1080	1.40	0.20	1.05	0.10	52.2	10.8	74	2.60	20.8
ZZ72693		0.15	0.041	0.16	5.68	8.5	1260	1.14	0.17	0.70	0.11	57.4	5.7	70	3.77	18.4
ZZ72694		0.20	0.017	0.35	6.97	68.0	4420	2.06	0.21	1.21	0.16	100.0	12.4	108	5.22	43.5
ZZ72695		0.27	0.018	0.48	6.87	34.1	3900	2.10	0.24	1.21	0.30	86.6	13.5	108	6.64	58.5
ZZ72696		0.29	0.011	0.48	7.00	34.5	4680	2.21	0.25	1.21	0.25	83.3	12.7	113	7.06	52.3
ZZ72697		0.15	0.021	0.34	5.69	41.2	4110	1.94	0.27	1.50	0.67	103.0	16.1	86	5.01	57.8
ZZ72698		0.26	0.011	0.28	7.24	30.4	3570	2.04	0.21	1.28	0.24	99.1	10.9	88	5.39	38.2
ZZ72699		0.19	0.008	0.29	8.52	27.6	3650	2.75	0.24	1.07	0.15	68.6	13.4	106	6.87	45.0
ZZ72700		0.33	0.011	0.26	8.59	69.6	4940	2.92	0.30	0.65	0.19	114.0	17.0	105	7.91	45.1
ZZ72701		0.16	0.003	0.22	6.32	18.3	1660	1.37	0.17	1.22	0.20	47.4	11.0	108	4.94	39.2
ZZ72702		0.16	0.005	0.45	7.08	17.4	3170	1.48	0.21	1.16	0.36	44.9	9.4	96	5.09	29.7
ZZ72703		0.24	0.011	0.53	7.92	59.2	5920	2.43	0.14	1.75	0.96	55.3	20.9	119	5.99	36.9
ZZ72704		0.18	0.004	0.35	7.81	20.4	2670	1.95	0.17	1.34	0.35	62.0	20.8	111	4.62	36.8
ZZ72705		0.21	0.003	0.23	6.82	9.6	2050	1.76	0.17	0.71	0.14	68.3	10.8	83	7.22	26.9
ZZ72706		0.23	0.008	0.57	7.52	39.9	2530	1.65	0.17	1.15	0.33	65.2	12.1	96	7.63	26.5
ZZ72707		0.12	0.021	1.26	6.65	44.5	2960	1.64	0.15	1.56	0.78	61.0	12.6	92	9.20	42.6
ZZ72708		0.12	0.013	0.53	6.57	34.0	2710	1.58	0.11	2.60	1.19	58.3	12.2	104	7.24	48.5
ZZ72709		0.13	0.011	0.34	6.42	32.0	2140	1.77	0.08	2.21	0.57	56.1	16.6	90	6.71	32.4
ZZ72710		0.08	0.014	0.30	6.64	36.9	1400	1.88	0.07	3.29	0.50	50.4	26.3	91	4.92	35.2
ZZ72711		0.21	0.012	0.33	7.96	24.2	3230	1.91	0.13	0.77	0.41	66.9	18.9	152	11.85	44.0
ZZ72712		0.07	0.007	0.14	6.65	17.8	3010	1.32	0.15	0.98	0.33	47.1	22.1	118	11.65	50.0
ZZ72713		0.18	0.001	0.18	7.35	15.1	2230	1.25	0.10	1.00	0.49	37.3	26.8	165	5.08	54.6
ZZ72714		0.19	0.013	0.35	5.36	15.1	6070	2.13	0.17	1.54	0.62	50.3	13.8	96	7.24	50.8
ZZ72715		0.18	0.006	0.11	5.90	11.4	1780	1.64	0.18	1.61	0.14	67.9	12.1	73	3.20	21.6
ZZ72716		0.19	0.098	0.86	5.06	19.8	9030	1.75	0.22	2.29	0.60	45.3	11.1	73	5.94	81.1
ZZ72717		0.22	0.043	0.29	5.42	20.4	6810	1.69	0.15	1.20	0.18	49.9	9.8	87	3.29	35.9
ZZ72718		0.17	0.007	0.42	6.87	15.1	3800	1.74	0.12	2.13	0.32	46.4	17.0	177	11.45	43.7
ZZ72719		0.29	0.010	0.34	7.45	25.8	2270	2.18	0.11	1.61	0.60	66.7	19.8	172	8.17	38.7
ZZ72720		0.18	0.010	0.37	6.70	24.7	1720	1.94	0.14	1.87	0.71	72.2	20.6	100	5.55	37.7
ZZ72721		0.21	0.008	0.38	7.82	22.6	2240	2.29	0.26	1.50	0.47	95.1	24.9	122	7.75	55.1
ZZ72722		0.23	0.009	0.43	6.77	21.7	4230	1.73	0.21	1.53	0.61	64.1	19.4	133	5.97	61.3
ZZ72723		0.17	0.011	0.43	7.58	23.3	3760	2.43	0.26	1.53	0.58	78.6	20.0	133	10.05	59.5
ZZ72724		0.08	0.018	0.39	4.54	13.8	3260	1.20	0.14	3.56	0.45	35.6	11.9	96	4.64	51.4
ZZ72725		0.08	0.008	0.31	6.14	12.9	2070	1.57	0.14	1.99	0.34	64.5	15.9	106	4.51	37.9
ZZ72726		0.17	0.011	0.36	6.14	19.5	1860	1.48	0.11	2.00	0.23	58.6	12.1	83	4.97	27.3



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CERTIFICATE OF ANALYSIS WH13121182

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ72687		3.15	14.30	0.14	2.0	0.042	1.22	29.9	24.4	0.82	350	1.23	1.41	11.4	28.0	450
ZZ72688		8.22	21.3	0.12	2.1	0.094	0.46	25.8	27.6	1.95	2150	1.14	2.51	17.8	56.3	1810
ZZ72689		3.64	16.70	0.10	2.8	0.049	1.47	29.0	26.6	1.03	744	1.12	1.47	12.2	73.3	600
ZZ72690		2.86	13.80	0.08	2.1	0.040	1.46	19.3	22.7	0.76	357	1.01	0.99	12.1	25.6	280
ZZ72691		3.61	18.55	0.10	3.5	0.052	2.17	38.0	36.7	0.77	263	1.43	0.39	16.9	42.2	340
ZZ72692		3.28	13.85	0.09	1.9	0.046	1.19	27.1	23.6	0.75	350	1.15	1.34	11.0	28.9	240
ZZ72693		2.60	15.10	0.14	2.4	0.042	1.45	26.3	21.6	0.66	266	1.23	1.02	13.0	20.9	270
ZZ72694		4.04	18.05	0.13	2.8	0.059	1.76	51.3	28.4	0.82	698	1.32	1.00	13.4	44.9	670
ZZ72695		3.73	19.10	0.12	2.9	0.062	1.83	45.4	31.1	0.71	977	1.50	0.88	12.7	52.0	690
ZZ72696		3.77	19.25	0.13	2.8	0.060	1.94	44.3	29.4	0.69	661	1.48	0.76	13.1	49.2	890
ZZ72697		3.91	15.35	0.15	2.3	0.056	1.61	54.0	23.5	0.54	1500	1.75	0.50	9.9	53.3	870
ZZ72698		3.17	19.55	0.14	2.9	0.059	2.02	51.3	30.2	0.59	612	1.16	1.01	13.5	35.3	720
ZZ72699		3.46	23.5	0.14	3.0	0.077	2.46	36.2	40.1	0.71	796	1.02	0.81	15.6	39.6	600
ZZ72700		4.26	24.9	0.18	3.4	0.082	2.77	58.6	39.9	0.75	939	1.28	0.76	16.9	46.2	630
ZZ72701		3.59	16.50	0.10	2.3	0.055	1.08	26.9	33.1	1.00	717	1.08	1.26	10.5	39.6	430
ZZ72702		3.30	20.2	0.12	2.3	0.057	1.60	24.9	31.6	0.74	476	1.86	1.39	11.7	23.5	440
ZZ72703		5.19	21.7	0.12	3.2	0.091	1.92	31.2	43.7	0.83	1230	1.57	1.10	16.6	34.2	1700
ZZ72704		5.25	21.3	0.11	2.6	0.077	1.41	32.7	45.9	1.09	1020	1.33	1.61	14.7	38.3	630
ZZ72705		2.96	17.75	0.09	2.8	0.052	2.16	35.9	35.7	0.74	537	1.06	0.75	12.2	25.6	510
ZZ72706		3.78	18.90	0.15	2.8	0.062	2.15	34.5	38.8	0.81	685	1.47	1.07	10.0	31.8	830
ZZ72707		3.47	17.15	0.14	2.4	0.062	1.89	34.8	36.7	0.68	816	1.61	0.58	6.9	43.5	790
ZZ72708		3.58	20.4	0.12	2.6	0.083	1.50	30.8	35.8	0.64	466	1.13	0.75	16.1	34.4	1390
ZZ72709		4.64	20.5	0.18	2.3	0.078	1.53	31.2	27.8	0.66	812	1.33	0.80	18.4	33.1	1320
ZZ72710		5.72	22.0	0.17	1.9	0.092	1.59	24.6	37.3	1.05	1220	1.32	1.30	16.9	28.4	1440
ZZ72711		5.03	20.3	0.18	2.7	0.075	2.59	35.9	40.1	1.26	843	1.14	0.57	13.8	57.0	850
ZZ72712		5.37	16.95	0.14	2.3	0.063	1.30	22.4	36.7	1.49	1430	1.84	1.25	10.8	57.1	370
ZZ72713		6.01	18.55	0.16	2.1	0.071	0.98	16.0	43.7	2.71	1600	1.51	1.85	11.3	65.1	520
ZZ72714		5.58	14.30	0.15	2.2	0.057	1.67	28.9	29.0	1.14	971	3.72	0.70	9.6	41.5	760
ZZ72715		3.25	13.55	0.19	2.1	0.048	1.39	35.6	25.8	0.84	580	1.25	1.32	11.5	30.8	530
ZZ72716		9.94	12.85	0.14	1.7	0.051	1.10	25.6	29.1	0.72	2410	3.65	0.87	7.8	47.9	850
ZZ72717		4.94	13.00	0.18	1.8	0.046	1.08	25.5	23.6	0.68	425	3.23	1.11	9.4	31.9	360
ZZ72718		4.46	17.45	0.19	2.5	0.069	1.81	26.6	34.5	1.52	758	1.05	0.84	10.7	68.1	1010
ZZ72719		5.21	20.3	0.22	2.5	0.087	1.92	34.2	36.4	1.31	878	1.19	0.99	17.8	81.5	1580
ZZ72720		4.93	17.70	0.20	2.3	0.075	1.70	36.5	37.2	0.82	882	1.99	0.90	17.4	39.0	1330
ZZ72721		5.26	20.7	0.22	2.8	0.074	2.37	48.5	43.1	1.12	717	2.34	0.84	17.2	52.5	1190
ZZ72722		4.77	17.35	0.20	2.1	0.071	1.70	34.0	36.5	1.01	810	1.72	0.97	12.5	47.4	1060
ZZ72723		4.41	19.65	0.23	2.9	0.071	2.35	42.2	43.2	1.03	787	1.60	0.52	15.2	57.7	1150
ZZ72724		2.82	11.45	0.19	1.5	0.045	1.23	20.0	24.6	0.73	638	1.30	0.52	7.5	34.4	1000
ZZ72725		4.12	15.85	0.21	2.0	0.066	1.48	33.3	34.4	1.01	640	1.11	1.08	12.9	34.3	1070
ZZ72726		3.73	15.45	0.18	2.1	0.060	1.56	30.0	29.4	0.76	530	0.89	0.95	12.7	26.3	1230



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Sample Description	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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOR	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72687		15.6	56.0	<0.002	0.01	1.12	10.7	1	1.8	213	0.84	0.05	7.7	0.399	0.50	2.2
ZZ72688		14.8	21.6	<0.002	0.02	1.90	33.5	2	1.7	83.2	1.15	<0.05	3.0	1.180	0.32	0.9
ZZ72689		13.6	70.8	<0.002	0.01	1.08	13.6	1	1.7	251	0.88	<0.05	6.6	0.530	0.61	2.1
ZZ72690		12.0	79.0	<0.002	0.01	1.19	9.9	1	1.5	156.5	0.82	<0.05	5.9	0.386	0.55	1.8
ZZ72691		15.2	120.0	0.002	0.01	1.45	13.5	1	2.1	47.1	1.19	0.07	12.0	0.469	0.78	2.6
ZZ72692		14.9	54.2	0.002	0.01	1.22	9.4	1	1.6	198.0	0.80	0.05	8.4	0.386	0.50	2.2
ZZ72693		13.2	80.9	<0.002	0.01	0.92	10.1	1	1.7	126.0	0.88	0.05	7.8	0.427	0.58	2.0
ZZ72694		27.8	88.8	0.002	0.02	1.61	17.1	1	2.1	180.5	0.93	0.05	11.3	0.435	1.11	2.4
ZZ72695		26.2	104.0	<0.002	0.03	1.67	17.7	2	2.1	176.0	0.84	0.05	10.7	0.406	1.10	2.7
ZZ72696		22.3	105.0	<0.002	0.04	1.96	18.0	2	2.2	158.0	0.89	0.05	11.6	0.415	1.32	2.4
ZZ72697		21.5	87.7	<0.002	0.06	1.95	13.6	1	1.7	151.0	0.69	0.05	11.3	0.319	1.00	2.4
ZZ72698		17.8	99.3	<0.002	0.02	1.62	14.6	1	2.0	224	0.88	<0.05	11.3	0.406	1.03	2.8
ZZ72699		19.2	131.0	0.002	0.03	1.58	19.6	1	2.6	174.0	1.24	<0.05	10.8	0.460	1.17	3.0
ZZ72700		23.8	144.0	<0.002	0.02	1.90	20.8	1	2.6	135.0	1.12	0.05	14.9	0.497	1.52	2.8
ZZ72701		15.3	60.1	<0.002	0.01	1.14	17.1	1	1.6	187.0	0.77	<0.05	5.8	0.437	0.56	1.9
ZZ72702		18.7	85.1	<0.002	0.01	1.41	18.4	1	1.9	228	0.78	0.05	5.6	0.535	0.98	1.9
ZZ72703		28.4	86.1	<0.002	0.04	2.71	30.2	3	2.3	163.0	1.01	<0.05	6.3	0.783	0.89	2.4
ZZ72704		39.3	77.1	0.003	0.01	1.11	26.7	2	2.2	166.5	0.95	<0.05	7.1	0.690	0.72	2.3
ZZ72705		15.0	110.0	<0.002	0.01	0.99	13.4	1	2.0	119.5	0.86	<0.05	11.0	0.409	0.74	2.4
ZZ72706		18.4	109.5	<0.002	0.01	1.37	15.4	1	1.8	194.5	0.65	<0.05	9.1	0.406	0.78	2.6
ZZ72707		19.1	107.0	<0.002	0.04	1.57	15.0	2	1.9	158.0	0.43	<0.05	8.2	0.261	0.78	2.9
ZZ72708		14.8	75.6	<0.002	0.06	1.39	23.5	3	2.1	172.5	1.00	<0.05	6.9	0.584	0.91	2.3
ZZ72709		15.8	70.6	<0.002	0.06	1.56	27.1	4	1.8	139.0	1.16	<0.05	5.7	0.847	0.95	2.4
ZZ72710		20.2	61.1	0.002	0.06	1.20	31.9	4	1.6	129.5	1.02	<0.05	3.6	0.893	1.02	1.5
ZZ72711		22.2	119.5	<0.002	0.01	1.87	26.3	2	2.2	90.3	0.85	0.08	9.7	0.614	1.13	1.9
ZZ72712		15.7	54.7	<0.002	0.02	1.41	22.1	2	1.5	156.0	0.70	0.07	5.6	0.597	0.82	1.7
ZZ72713		13.7	44.5	<0.002	0.02	0.89	27.6	2	1.4	124.0	0.69	0.09	4.2	0.689	0.53	1.2
ZZ72714		128.0	76.1	<0.002	0.16	2.40	16.4	2	1.7	136.5	0.61	0.07	7.0	0.379	4.16	2.0
ZZ72715		15.3	66.1	<0.002	0.04	1.27	12.1	2	1.6	232	0.77	0.05	9.0	0.394	0.54	2.8
ZZ72716		66.0	55.8	<0.002	0.27	4.14	13.0	3	1.2	313	0.49	0.30	5.7	0.308	4.67	2.5
ZZ72717		133.5	51.6	<0.002	0.14	1.97	11.9	3	1.5	224	0.62	0.05	6.6	0.359	1.71	2.2
ZZ72718		19.7	81.5	<0.002	0.06	2.30	24.3	2	1.7	161.0	0.66	<0.05	6.1	0.508	1.01	2.2
ZZ72719		24.9	80.4	<0.002	0.03	1.83	28.7	2	2.2	116.0	1.08	0.05	7.3	0.917	1.14	1.7
ZZ72720		23.2	77.7	<0.002	0.05	2.11	23.4	2	2.0	134.5	1.03	0.05	7.5	0.790	0.86	1.9
ZZ72721		39.1	115.5	<0.002	0.05	3.28	22.2	2	2.2	116.0	1.03	0.06	12.0	0.631	0.87	2.8
ZZ72722		36.7	81.0	<0.002	0.03	2.26	22.9	3	1.8	147.5	0.81	0.08	7.2	0.617	0.81	1.9
ZZ72723		41.0	121.0	<0.002	0.05	2.45	21.2	2	2.0	123.5	0.91	0.09	10.5	0.560	1.17	2.4
ZZ72724		21.2	59.3	<0.002	0.12	1.73	14.7	2	1.1	182.0	0.46	0.05	4.4	0.312	0.57	3.7
ZZ72725		19.6	72.0	<0.002	0.05	1.44	20.1	2	1.5	153.5	0.76	0.06	7.2	0.578	0.58	1.6
ZZ72726		16.1	75.6	<0.002	0.06	1.19	18.9	2	1.5	162.5	0.77	<0.05	7.1	0.559	0.65	2.1



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ72687		121	1.3	14.3	52	71.8
ZZ72688		291	1.3	35.3	166	65.3
ZZ72689		137	1.3	17.2	98	91.9
ZZ72690		115	1.1	10.0	59	67.7
ZZ72691		157	1.2	18.0	106	124.0
ZZ72692		119	1.7	10.9	53	63.3
ZZ72693		122	1.2	13.2	57	88.4
ZZ72694		144	2.0	16.6	108	110.5
ZZ72695		145	2.4	16.0	116	98.3
ZZ72696		147	1.8	16.6	120	99.7
ZZ72697		106	1.6	15.5	123	82.8
ZZ72698		120	1.8	14.0	101	102.5
ZZ72699		144	2.0	15.5	89	100.0
ZZ72700		158	2.6	14.4	120	116.0
ZZ72701		155	1.0	16.0	99	71.6
ZZ72702		195	1.2	10.6	111	85.3
ZZ72703		263	1.4	24.0	180	130.0
ZZ72704		239	1.1	18.4	119	96.9
ZZ72705		148	1.4	9.9	91	96.7
ZZ72706		156	1.3	14.5	113	113.0
ZZ72707		143	1.1	20.2	106	93.7
ZZ72708		171	1.5	24.5	93	106.0
ZZ72709		206	1.5	28.8	119	99.2
ZZ72710		266	2.1	21.7	151	47.3
ZZ72711		219	1.5	28.7	172	109.5
ZZ72712		197	1.0	18.8	176	97.8
ZZ72713		232	0.7	19.0	181	84.4
ZZ72714		169	1.5	19.5	225	93.1
ZZ72715		136	1.2	22.1	88	84.4
ZZ72716		134	1.1	20.7	230	73.3
ZZ72717		134	1.5	13.5	181	70.8
ZZ72718		200	1.0	24.4	117	93.0
ZZ72719		226	1.5	26.5	179	106.5
ZZ72720		199	1.5	20.1	149	96.0
ZZ72721		206	1.5	16.0	186	121.5
ZZ72722		216	1.3	19.1	126	92.1
ZZ72723		199	1.7	16.1	228	121.0
ZZ72724		147	0.8	13.4	96	64.9
ZZ72725		169	1.2	14.7	112	84.8
ZZ72726		157	1.1	16.2	98	90.4



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CERTIFICATE OF ANALYSIS WH13121182

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ72727		0.28	0.006	0.27	7.44	14.9	2130	2.15	0.10	2.48	0.56	59.4	20.9	113	5.64	37.7
ZZ72728		0.16	0.005	0.22	6.96	21.2	2220	1.76	0.11	2.11	0.50	54.5	18.0	148	7.38	28.5
ZZ72729		0.15	0.007	0.25	6.71	25.3	3160	1.79	0.15	1.30	0.51	62.0	22.1	155	8.22	56.4
ZZ72730		0.21	0.013	0.36	6.36	28.7	3140	1.68	0.14	1.88	0.53	58.2	21.6	159	8.55	59.1
ZZ72731		0.19	0.009	0.35	6.13	26.9	3310	1.68	0.14	1.95	0.47	55.1	19.7	149	8.26	59.3
ZZ72732		0.14	0.009	0.36	6.18	19.0	3360	1.62	0.13	2.10	0.38	47.6	16.2	151	8.76	43.5
ZZ72733		0.14	0.013	0.28	6.37	39.8	4450	2.01	0.22	1.11	0.62	70.5	15.2	125	6.43	57.2
ZZ72734		0.14	0.038	0.25	6.39	48.5	>10000	2.34	0.20	1.30	0.45	64.8	12.8	97	6.66	40.8
ZZ72735		0.27	0.008	0.20	6.51	26.8	3480	1.63	0.18	1.42	0.30	77.6	10.7	97	4.73	41.0
ZZ72736		0.30	0.009	0.28	6.64	28.5	3430	1.76	0.19	1.42	0.19	94.0	10.6	95	4.70	45.1
ZZ72737		0.18	0.006	0.18	5.86	22.5	3110	1.49	0.17	1.80	0.38	75.9	10.3	84	4.22	40.6
ZZ72738		0.22	0.008	0.35	6.63	27.7	3420	1.71	0.19	1.40	0.20	83.0	10.4	94	4.70	44.1
ZZ72739		0.31	0.008	0.24	6.80	28.7	3630	1.80	0.18	1.43	0.22	84.6	11.0	100	4.81	41.0
ZZ72740		0.08	0.010	0.36	3.41	10.5	1780	0.87	0.09	3.27	1.07	33.2	5.9	48	2.71	42.9



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ72727		5.50	20.2	0.22	2.2	0.092	1.82	30.5	41.3	1.17	697	1.21	1.26	17.5	40.3	1400
ZZ72728		4.75	18.70	0.20	2.2	0.072	1.62	27.6	33.1	1.26	634	1.14	1.00	15.2	65.8	1190
ZZ72729		5.36	17.00	0.19	2.4	0.064	1.71	31.9	34.8	1.39	926	1.53	0.98	13.5	74.0	940
ZZ72730		5.03	16.05	0.19	2.3	0.068	1.67	33.3	31.0	1.27	915	1.54	0.81	13.2	76.8	970
ZZ72731		4.97	15.85	0.19	2.1	0.061	1.62	31.5	31.2	1.19	823	1.59	0.77	12.5	66.7	960
ZZ72732		4.29	15.50	0.16	2.0	0.061	1.60	26.1	30.0	1.24	584	1.10	0.79	10.9	57.8	1030
ZZ72733		5.81	16.00	0.17	2.4	0.061	1.69	37.4	30.6	0.99	886	1.90	0.87	11.3	54.0	730
ZZ72734		4.94	15.90	0.18	2.4	0.056	1.81	33.8	28.6	0.78	841	2.51	0.93	10.8	36.8	560
ZZ72735		3.28	16.50	0.21	2.7	0.051	1.79	40.1	25.5	0.70	734	1.21	1.00	12.1	38.3	710
ZZ72736		3.34	17.10	0.21	2.6	0.059	1.77	48.8	26.1	0.75	697	1.35	1.03	11.7	39.7	690
ZZ72737		2.91	14.90	0.21	2.4	0.048	1.56	39.2	22.8	0.68	748	1.17	0.91	10.9	36.5	660
ZZ72738		3.33	16.55	0.25	2.6	0.049	1.81	43.0	25.8	0.71	687	1.18	1.02	11.9	38.7	740
ZZ72739		3.50	16.95	0.23	2.7	0.055	1.86	44.0	25.9	0.76	746	1.23	1.06	12.5	39.4	790
ZZ72740		1.68	7.69	0.16	1.3	0.026	0.87	18.1	11.1	0.58	689	0.69	0.57	5.6	27.8	1370

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Sample Description	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ72727		23.1	76.2	<0.002	0.04	1.08	28.6	2	2.0	117.0	1.03	<0.05	6.1	0.950	1.19	1.6
ZZ72728		20.6	71.1	<0.002	0.04	1.59	25.8	2	1.9	141.5	0.88	<0.05	6.1	0.758	1.10	1.7
ZZ72729		26.6	75.9	<0.002	0.03	2.23	22.8	2	1.8	130.5	0.83	0.06	7.7	0.659	1.48	1.8
ZZ72730		32.0	77.0	<0.002	0.06	3.02	21.6	3	1.6	147.5	0.86	0.05	7.2	0.642	1.42	2.5
ZZ72731		32.3	74.1	<0.002	0.06	2.95	21.4	3	1.6	153.0	0.76	0.07	6.8	0.598	1.36	2.7
ZZ72732		21.7	72.7	<0.002	0.06	2.10	21.4	3	1.5	157.5	0.72	<0.05	6.1	0.554	1.12	2.5
ZZ72733		57.6	82.1	<0.002	0.07	3.51	16.5	2	1.8	148.5	0.74	0.10	9.1	0.449	2.82	2.3
ZZ72734		77.5	88.0	<0.002	0.20	2.40	15.9	3	1.7	205	0.70	0.10	8.3	0.410	4.57	2.7
ZZ72735		14.8	94.0	<0.002	0.02	1.64	14.2	2	1.8	203	0.80	0.07	9.8	0.428	0.68	2.8
ZZ72736		14.2	90.3	<0.002	0.02	1.74	14.6	2	1.8	211	0.76	0.06	11.0	0.418	0.65	2.6
ZZ72737		13.1	82.8	<0.002	0.04	1.60	12.9	2	1.7	206	0.70	0.07	9.3	0.379	0.62	2.9
ZZ72738		14.1	93.5	<0.002	0.02	1.67	14.4	2	1.8	204	0.77	0.07	10.2	0.421	0.66	2.7
ZZ72739		14.5	98.0	<0.002	0.03	1.84	14.9	2	1.7	212	0.79	0.07	10.5	0.433	0.67	3.0
ZZ72740		6.3	52.6	0.002	0.14	0.98	7.2	2	0.8	220	0.36	0.05	4.5	0.212	0.30	7.0

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ72727		245	1.6	21.3	180	98.2
ZZ72728		212	1.3	19.8	150	88.8
ZZ72729		198	1.2	22.2	230	94.8
ZZ72730		187	1.2	26.4	204	92.5
ZZ72731		183	1.2	24.8	211	86.6
ZZ72732		183	1.1	20.9	162	86.2
ZZ72733		164	1.3	18.3	391	94.6
ZZ72734		178	1.5	17.0	280	97.7
ZZ72735		130	1.5	15.3	108	106.0
ZZ72736		131	1.6	16.3	99	102.0
ZZ72737		112	1.4	12.9	97	89.9
ZZ72738		131	1.5	15.9	106	107.5
ZZ72739		139	1.6	16.0	112	105.5
ZZ72740		60	0.7	9.3	148	51.0



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Project: Magnum
 P.O. No.:
 This report is for 215 Soil samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2013.
 The following have access to data associated with this certificate:
 HEATHER BURRELL SARAH DRECHSLER JOAN MARIACHER

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
EXTRA-01	Extra Sample received in Shipment
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
 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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34251		0.19	0.002	0.32	8.09	9.2	2600	3.29	0.26	1.19	0.46	101.5	3.5	27	10.40	20.9
ZZ34252		0.18	0.004	0.37	7.58	16.5	2340	2.92	0.25	1.59	0.56	110.5	6.6	46	8.90	36.9
ZZ34253		0.13	0.006	0.53	7.50	11.2	1570	1.95	0.21	1.78	0.26	71.6	7.7	60	4.96	42.2
ZZ34254		0.18	0.008	0.42	7.63	13.6	2220	3.24	0.24	0.63	0.40	112.5	9.3	90	10.45	30.2
ZZ34255		0.22	0.014	0.49	8.10	30.9	2540	2.36	0.29	0.61	0.42	91.5	14.9	137	7.42	48.7
ZZ34256		0.17	0.006	0.29	6.83	13.9	1690	2.00	0.21	1.42	0.31	74.8	9.6	102	7.30	32.7
ZZ34257		0.16	0.015	0.49	6.17	15.3	1630	1.94	0.21	1.31	0.46	82.2	11.2	105	6.20	47.6
ZZ34258		0.15	0.009	0.36	7.42	17.5	1770	2.05	0.24	0.69	0.22	85.2	10.7	129	7.16	32.8
ZZ34259		0.09	0.005	0.45	6.69	15.7	1710	1.94	0.25	0.98	0.37	80.3	9.7	99	6.61	34.8
ZZ34260		0.07	NSS	0.10	0.60	1.4	180	0.14	0.03	3.22	0.50	6.10	1.9	9	0.32	14.7
ZZ34261		0.07	0.003	0.26	2.52	7.2	990	0.79	0.09	2.90	0.71	42.2	6.4	53	3.07	30.1
ZZ34262		0.10	0.004	0.31	8.45	12.1	2910	3.36	0.26	0.26	0.54	53.9	4.7	33	15.65	21.3
ZZ34263		0.22	0.005	0.34	7.80	24.4	2220	2.29	0.27	0.51	0.58	86.5	17.2	148	9.50	54.5
ZZ34264		0.22	0.006	0.30	7.26	25.6	1990	2.23	0.22	0.55	0.33	77.8	14.8	134	8.40	38.1
ZZ34265		0.26	0.004	0.20	6.46	12.0	1150	1.58	0.21	1.02	0.19	64.9	8.6	88	4.81	25.1
ZZ34266		0.19	0.009	0.23	6.57	10.8	1190	1.58	0.22	1.05	0.17	78.1	7.8	89	4.54	30.6
ZZ34301		0.13	0.013	0.71	6.62	24.9	1420	2.07	0.25	1.75	0.84	69.5	17.3	136	7.12	53.9
ZZ34302		0.17	0.009	0.62	9.27	17.0	1580	3.57	0.45	0.58	1.16	94.9	25.4	104	12.75	65.8
ZZ34303		0.23	0.022	0.91	8.80	26.8	1960	2.84	0.37	0.77	1.73	106.5	23.2	144	10.70	79.5
ZZ34304		0.21	0.015	0.77	7.22	29.9	1680	2.35	0.24	1.43	1.34	84.8	19.3	151	6.96	69.1
ZZ34305		0.23	0.005	0.40	6.16	15.1	1450	1.82	0.20	1.46	1.15	69.5	14.3	130	5.33	50.2
ZZ34306		0.15	0.010	0.58	6.41	18.2	1510	1.80	0.16	1.52	1.78	61.8	18.5	174	5.61	53.9
ZZ34307		0.15	0.009	0.65	6.46	22.2	1480	1.80	0.22	1.77	1.66	72.4	15.9	126	5.40	55.0
ZZ34308		0.19	0.013	0.65	7.45	25.2	1670	2.34	0.27	0.94	1.93	87.9	19.2	135	7.58	70.7
ZZ34309		0.12	0.023	1.94	7.09	41.7	1550	1.97	0.31	1.31	1.32	58.8	14.7	143	8.60	86.9
ZZ34310		0.21	0.017	0.78	6.62	36.4	1310	2.08	0.26	1.30	1.92	86.6	15.3	110	7.07	63.1
ZZ34311		0.18	0.027	0.81	9.17	42.3	1750	2.96	0.41	0.47	1.52	114.0	26.3	117	11.20	69.4
ZZ34312		0.19	0.007	0.48	9.23	18.3	1670	2.94	0.44	0.57	0.72	126.0	22.8	96	11.85	56.7
ZZ34313		0.21	0.050	2.05	11.70	42.9	1980	4.08	0.75	0.48	0.88	80.0	17.9	157	17.25	80.3
ZZ34314		0.21	0.009	0.91	8.05	21.2	1860	2.72	0.35	1.52	3.15	91.7	20.7	120	7.93	85.5
ZZ34315		0.12	0.003	0.27	6.53	9.4	1360	1.58	0.18	1.13	0.50	56.0	16.2	188	3.68	23.6
ZZ34316		0.15	0.004	0.35	6.37	10.2	1420	1.50	0.15	1.43	0.35	60.5	16.8	279	3.91	36.0
ZZ34317		0.18	0.006	0.53	7.40	17.8	2150	2.37	0.22	0.78	0.82	77.2	16.8	114	12.20	48.2
ZZ34318		0.22	0.011	0.45	6.94	16.1	1450	1.93	0.18	1.02	0.16	85.5	29.8	529	3.14	44.1
ZZ34319		0.31	0.002	0.13	6.45	6.2	1550	1.44	0.13	1.12	0.14	49.4	18.1	269	4.18	25.8
ZZ34320		0.13	0.005	0.67	5.73	5.7	1200	1.27	0.14	2.15	0.56	60.2	21.4	259	3.32	48.0
ZZ34321		0.28	0.003	0.17	6.15	5.5	1160	1.38	0.12	1.32	0.18	44.9	11.5	203	2.58	23.2
ZZ34322		0.25	0.004	0.17	6.46	4.2	1130	1.48	0.11	1.61	0.25	53.8	15.3	300	2.86	36.2
ZZ34323		0.25	0.004	0.27	5.56	10.0	930	1.08	0.16	1.30	0.13	46.6	8.9	95	2.11	18.4
ZZ34324		0.27	0.002	0.17	6.97	3.7	1050	1.56	0.07	0.80	0.17	51.1	19.5	396	3.29	42.9



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ34251		2.69	25.6	0.25	5.5	0.104	3.38	52.7	29.7	1.04	252	1.23	0.96	13.4	13.8	400
ZZ34252		2.78	22.8	0.28	4.3	0.088	2.60	60.7	30.8	0.91	802	2.08	0.93	12.9	24.9	480
ZZ34253		2.61	21.0	0.25	4.2	0.054	2.36	39.0	29.4	0.85	373	1.76	1.81	8.9	34.4	500
ZZ34254		3.05	24.3	0.28	5.0	0.094	3.00	60.4	24.8	1.33	299	1.59	1.04	12.4	58.4	390
ZZ34255		3.66	23.1	0.24	3.7	0.085	3.13	45.7	29.9	1.43	495	2.73	0.56	11.8	73.7	650
ZZ34256		2.75	19.05	0.23	3.0	0.068	2.25	38.8	26.7	1.00	417	1.75	0.62	10.3	44.4	570
ZZ34257		2.59	17.45	0.24	3.0	0.060	2.20	41.8	24.0	0.99	615	2.11	0.45	9.1	49.0	680
ZZ34258		2.94	21.4	0.22	3.2	0.074	2.59	44.1	28.1	1.26	291	2.17	0.61	11.5	55.2	450
ZZ34259		2.68	19.65	0.23	3.1	0.067	2.36	41.3	26.0	0.94	308	2.41	0.58	10.7	40.3	530
ZZ34260		0.34	1.57	0.13	0.4	0.007	0.13	3.2	1.9	0.34	166	1.07	0.16	1.0	8.1	520
ZZ34261		1.41	6.98	0.21	1.5	0.030	0.77	28.4	10.4	0.66	251	1.86	0.26	3.8	28.2	850
ZZ34262		3.08	26.4	0.22	4.7	0.110	3.78	26.1	36.0	1.08	110	1.61	0.83	14.6	17.1	270
ZZ34263		3.70	22.0	0.25	3.4	0.077	2.81	44.3	30.0	0.97	624	2.69	0.37	10.0	76.5	760
ZZ34264		3.37	20.6	0.23	3.1	0.064	2.42	40.6	29.7	0.95	540	2.64	0.53	10.7	62.0	570
ZZ34265		2.87	16.95	0.21	2.6	0.050	1.86	34.2	23.8	0.71	362	2.39	0.96	10.8	22.6	630
ZZ34266		2.99	17.15	0.24	2.6	0.052	1.79	41.1	23.5	0.72	293	1.78	1.03	11.4	24.4	620
ZZ34301		3.68	18.05	0.25	3.2	0.065	1.92	34.5	31.9	1.48	717	10.90	0.84	11.9	60.0	840
ZZ34302		4.70	26.1	0.23	4.3	0.094	2.49	47.0	64.9	1.17	674	8.90	0.83	18.7	60.1	750
ZZ34303		4.78	25.1	0.28	4.4	0.091	2.57	52.2	46.3	1.39	570	19.65	0.81	16.2	81.2	870
ZZ34304		4.12	20.1	0.25	3.6	0.064	2.12	42.7	33.3	1.71	694	9.41	0.89	12.3	79.7	1000
ZZ34305		3.50	16.50	0.22	3.0	0.055	1.85	35.7	29.8	1.71	457	6.28	0.98	10.7	57.0	910
ZZ34306		3.79	17.60	0.21	3.1	0.061	2.08	30.9	30.0	2.02	754	5.45	1.08	10.1	70.8	820
ZZ34307		3.83	17.05	0.23	3.1	0.057	1.90	36.1	33.7	1.55	508	9.70	0.84	11.2	62.0	1100
ZZ34308		4.20	20.6	0.24	3.6	0.074	2.02	43.4	39.3	1.56	616	13.25	0.91	13.0	74.5	990
ZZ34309		4.18	18.75	0.23	3.4	0.068	1.89	30.2	27.7	1.18	458	24.9	0.83	11.1	72.1	720
ZZ34310		3.93	17.40	0.25	2.9	0.060	1.76	44.8	31.9	1.01	508	20.0	0.79	11.1	60.8	1010
ZZ34311		4.96	25.3	0.27	4.1	0.094	2.43	55.0	47.6	1.01	657	20.1	0.88	16.7	74.7	780
ZZ34312		4.75	25.1	0.26	4.1	0.090	2.41	62.0	71.5	1.14	726	8.38	0.72	16.9	58.8	660
ZZ34313		5.12	34.4	0.29	5.1	0.141	3.41	35.1	57.3	0.84	271	39.0	0.95	21.5	44.2	840
ZZ34314		4.58	20.0	0.18	3.6	0.060	2.27	45.7	48.9	1.43	648	20.8	0.67	13.5	91.3	1300
ZZ34315		3.49	15.70	0.14	2.6	0.033	1.78	27.0	39.2	2.17	540	1.52	1.36	10.6	66.8	640
ZZ34316		3.86	16.00	0.17	3.0	0.038	1.76	31.1	39.4	3.06	591	0.99	1.31	9.6	95.3	570
ZZ34317		3.96	20.7	0.17	3.8	0.066	2.52	40.3	46.2	1.88	674	1.56	0.97	11.7	60.4	1010
ZZ34318		4.91	17.45	0.17	4.0	0.039	1.77	45.7	52.5	5.52	907	1.04	0.98	11.0	239	700
ZZ34319		3.96	16.05	0.12	2.6	0.031	1.54	24.4	33.4	2.92	548	0.68	1.65	12.3	94.7	520
ZZ34320		3.74	14.65	0.15	2.8	0.034	1.13	35.5	24.3	2.64	1020	0.80	1.47	7.7	69.8	810
ZZ34321		3.57	14.95	0.12	2.2	0.036	1.95	21.5	26.8	2.56	591	0.49	1.31	9.7	43.9	710
ZZ34322		4.23	16.30	0.15	3.1	0.037	2.10	27.2	30.9	3.71	742	0.37	1.32	9.8	64.4	780
ZZ34323		3.13	12.95	0.13	2.0	0.020	1.30	23.2	20.8	1.03	392	0.81	1.43	8.8	26.5	660
ZZ34324		5.02	17.80	0.14	3.3	0.034	2.04	26.7	43.5	5.13	949	0.35	1.13	9.5	86.6	880



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CERTIFICATE OF ANALYSIS WH13115623

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
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34251		39.3	148.5	0.003	0.06	2.17	12.9	3	3.3	163.0	1.00	<0.05	21.5	0.174	0.92	5.7
ZZ34252		40.4	118.0	0.002	0.05	2.35	12.4	3	2.8	232	0.96	<0.05	22.5	0.201	0.85	6.8
ZZ34253		33.6	84.6	<0.002	0.03	1.70	9.8	2	1.8	399	0.69	<0.05	15.2	0.256	0.61	5.9
ZZ34254		39.0	146.5	<0.002	0.04	2.36	14.1	2	3.2	70.2	0.99	0.05	21.3	0.205	0.89	4.2
ZZ34255		44.1	154.5	<0.002	0.07	4.34	15.9	2	3.1	98.5	0.86	0.09	19.1	0.306	1.04	4.6
ZZ34256		29.4	120.5	<0.002	0.07	2.29	13.9	2	2.2	175.5	0.76	0.06	13.9	0.292	0.75	3.7
ZZ34257		31.9	114.5	0.002	0.09	2.89	13.5	2	2.1	128.0	0.65	0.07	14.7	0.258	0.68	5.1
ZZ34258		38.5	139.5	<0.002	0.04	3.03	15.1	2	2.5	115.5	0.81	0.07	15.2	0.332	0.86	3.8
ZZ34259		38.1	126.0	0.002	0.05	2.82	13.8	2	2.4	136.0	0.78	0.06	15.3	0.284	0.82	4.2
ZZ34260		2.1	5.2	0.003	0.19	0.57	1.4	1	0.2	193.0	0.06	<0.05	0.9	0.043	0.06	0.9
ZZ34261		19.7	38.3	0.002	0.22	1.61	6.7	3	0.8	183.0	0.27	<0.05	9.1	0.138	0.33	3.4
ZZ34262		32.6	154.0	0.002	0.07	2.71	12.4	1	3.4	68.7	1.13	0.06	15.3	0.201	1.32	4.0
ZZ34263		37.5	146.5	0.002	0.02	3.35	17.0	2	2.6	131.5	0.72	0.10	15.9	0.319	0.87	4.7
ZZ34264		35.5	127.0	0.002	0.02	2.97	15.3	2	2.3	154.5	0.76	0.09	13.8	0.344	0.85	3.9
ZZ34265		23.8	94.4	<0.002	0.02	1.96	12.1	2	1.7	179.0	0.78	0.07	10.6	0.377	0.60	2.9
ZZ34266		27.8	91.3	<0.002	0.02	2.08	12.2	1	1.7	190.0	0.87	0.05	13.5	0.395	0.60	3.1
ZZ34301		25.1	98.8	0.017	0.08	5.77	16.4	12	2.1	148.0	0.88	0.11	12.9	0.382	1.25	6.5
ZZ34302		33.2	142.0	0.003	0.04	3.44	20.2	4	3.3	138.5	1.39	0.20	19.5	0.520	1.38	3.4
ZZ34303		33.8	133.0	0.005	0.06	6.99	21.1	8	3.0	119.5	1.20	0.20	17.8	0.494	1.88	4.1
ZZ34304		23.3	104.5	0.010	0.07	6.19	18.8	6	2.2	151.5	0.91	0.10	14.2	0.396	1.44	4.9
ZZ34305		19.3	84.7	0.010	0.09	2.93	15.6	6	1.7	135.5	0.81	0.05	11.8	0.342	0.87	4.6
ZZ34306		20.3	93.1	0.005	0.06	3.42	17.9	5	1.8	146.0	0.74	0.06	12.0	0.347	0.99	3.5
ZZ34307		20.2	89.6	0.021	0.12	6.29	15.1	8	1.9	160.5	0.83	0.11	12.3	0.375	1.19	4.2
ZZ34308		26.1	103.0	0.008	0.08	5.91	18.3	6	2.4	109.0	0.94	0.09	14.6	0.414	1.44	4.0
ZZ34309		51.9	105.5	0.013	0.08	14.25	16.8	11	2.5	172.0	0.82	0.21	11.8	0.378	1.83	5.1
ZZ34310		25.3	100.0	0.012	0.09	8.44	14.6	10	2.2	141.5	0.84	0.16	12.8	0.356	1.41	4.5
ZZ34311		33.7	138.5	0.002	0.05	8.70	19.6	7	3.2	131.5	1.23	0.20	18.7	0.490	1.84	3.9
ZZ34312		29.4	130.5	0.004	0.04	4.40	18.7	4	3.0	131.5	1.25	0.15	21.7	0.493	1.46	3.7
ZZ34313		85.3	190.0	0.016	0.35	20.1	26.6	8	5.5	303	1.64	0.42	20.4	0.635	2.99	5.2
ZZ34314		24.0	114.0	0.002	0.10	5.76	19.0	8	2.4	139.0	0.99	<0.05	14.5	0.467	1.90	3.4
ZZ34315		13.6	82.0	<0.002	0.02	1.17	14.9	2	1.6	151.5	0.79	<0.05	9.0	0.391	0.63	2.0
ZZ34316		15.2	80.8	<0.002	0.03	1.13	18.0	2	1.5	158.5	0.71	<0.05	9.1	0.386	0.59	2.2
ZZ34317		22.9	110.5	0.002	0.05	1.60	22.4	3	2.2	94.5	0.87	<0.05	13.2	0.400	0.81	3.6
ZZ34318		19.7	78.7	<0.002	0.03	1.56	22.4	2	1.8	121.0	0.82	<0.05	14.2	0.422	0.61	2.5
ZZ34319		14.2	72.4	<0.002	0.01	0.97	16.5	2	1.6	127.5	0.81	<0.05	8.0	0.409	0.62	2.3
ZZ34320		13.6	70.7	<0.002	0.04	0.75	18.8	2	1.2	214	0.55	<0.05	8.0	0.355	0.61	2.2
ZZ34321		16.7	81.9	<0.002	0.01	0.83	17.7	2	1.4	135.5	0.70	<0.05	6.6	0.403	0.60	1.7
ZZ34322		22.6	96.9	<0.002	0.01	0.85	23.5	2	1.5	103.5	0.74	0.06	8.6	0.441	0.63	2.2
ZZ34323		16.4	56.0	<0.002	0.01	1.08	11.1	2	1.2	238	0.66	<0.05	7.0	0.354	0.42	1.7
ZZ34324		24.2	83.5	0.002	<0.01	0.84	27.8	2	1.4	54.0	0.69	<0.05	9.1	0.449	0.56	2.0



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ34251		39	1.5	29.3	137	184.5
ZZ34252		58	1.4	29.8	110	153.0
ZZ34253		68	1.0	20.7	90	150.0
ZZ34254		65	1.5	29.9	127	160.5
ZZ34255		147	1.6	16.7	130	120.5
ZZ34256		122	1.3	15.9	99	103.0
ZZ34257		114	1.1	20.0	87	98.4
ZZ34258		142	1.5	15.1	75	106.0
ZZ34259		121	1.3	16.1	82	105.0
ZZ34260		11	0.1	2.5	34	11.1
ZZ34261		64	0.7	17.0	68	52.8
ZZ34262		50	1.5	17.7	142	171.5
ZZ34263		175	1.5	17.5	162	113.0
ZZ34264		161	1.6	14.5	136	105.5
ZZ34265		141	1.1	13.1	61	87.5
ZZ34266		135	1.2	14.8	68	91.3
ZZ34301		164	1.5	17.5	144	112.5
ZZ34302		155	2.2	17.9	149	146.0
ZZ34303		239	2.0	19.7	218	144.5
ZZ34304		175	1.7	22.0	171	125.0
ZZ34305		125	1.1	18.4	127	102.0
ZZ34306		143	1.1	20.4	147	113.5
ZZ34307		163	1.3	16.6	185	106.5
ZZ34308		187	1.6	20.2	182	124.5
ZZ34309		205	1.4	17.9	164	120.5
ZZ34310		177	1.5	15.7	167	102.5
ZZ34311		222	2.5	18.3	210	141.0
ZZ34312		156	2.2	19.2	155	138.5
ZZ34313		290	3.5	13.0	135	169.0
ZZ34314		269	1.7	18.4	310	125.5
ZZ34315		117	1.1	13.4	96	84.3
ZZ34316		127	0.8	18.4	89	105.5
ZZ34317		148	1.1	29.6	130	136.0
ZZ34318		151	0.8	25.3	92	133.0
ZZ34319		131	0.8	17.3	83	86.9
ZZ34320		128	0.5	19.2	99	99.4
ZZ34321		130	0.8	15.2	93	75.0
ZZ34322		155	0.8	20.0	116	100.5
ZZ34323		110	0.9	12.4	65	64.2
ZZ34324		182	0.7	19.6	136	112.0



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34325		0.22	0.002	0.21	5.81	11.8	930	1.14	0.19	1.00	0.16	46.6	9.8	73	2.47	16.2
ZZ34326		0.24	0.001	0.39	5.85	10.4	920	1.18	0.18	1.07	0.08	48.9	9.2	74	2.20	15.0
ZZ34327		0.25	0.004	0.23	6.33	9.7	1150	1.28	0.19	1.02	0.11	54.2	7.7	70	2.47	15.6
ZZ34328		0.25	0.004	0.04	5.91	12.3	1080	1.27	0.19	1.13	0.07	69.1	10.8	72	2.30	23.3
ZZ34329		0.28	0.003	0.19	5.75	11.0	990	1.23	0.20	1.15	0.08	59.1	9.3	77	2.46	17.1
ZZ34330		0.28	0.004	0.17	6.11	10.6	980	1.23	0.19	1.09	0.10	55.9	8.7	73	2.57	16.3
ZZ34331		0.27	0.036	0.10	6.05	10.2	1000	1.63	0.17	1.16	0.12	57.8	10.4	77	2.41	19.7
ZZ34332		0.31	0.003	0.20	5.93	11.9	980	1.23	0.19	1.13	0.10	53.3	8.0	71	2.49	14.9
ZZ34333		0.30	0.029	0.07	5.59	7.9	1060	1.32	0.16	1.24	0.18	67.3	9.5	104	2.56	24.5
ZZ34334		0.29	0.003	0.09	5.94	9.1	1110	1.23	0.16	1.43	0.10	60.1	9.1	74	2.02	21.9
ZZ34335		0.18	0.003	0.08	5.68	7.8	1100	1.16	0.15	1.52	0.09	66.5	9.4	78	1.99	20.1
ZZ34336		0.26	0.004	0.08	5.70	8.6	1020	1.18	0.16	1.47	0.11	58.7	8.8	71	1.99	19.0
ZZ34337		0.30	0.009	0.06	5.70	8.3	1000	1.21	0.14	1.46	0.15	63.4	9.1	81	1.94	19.1
ZZ34338		0.26	0.006	0.07	5.80	8.4	1050	1.19	0.16	1.38	0.15	57.9	8.0	73	2.08	19.1
ZZ34339		0.23	0.002	0.14	6.00	9.9	1060	1.17	0.18	1.24	0.14	59.3	7.1	74	2.56	17.1
ZZ34340		0.18	0.004	0.19	5.96	8.1	1050	1.21	0.21	1.26	0.14	61.0	6.8	78	2.54	22.8
ZZ34341		0.15	0.004	0.41	7.39	12.7	1450	2.17	0.27	1.52	2.84	68.8	15.8	184	5.69	60.7
ZZ34342		0.19	0.008	0.32	6.96	12.8	1480	2.03	0.20	1.54	0.26	69.6	20.8	286	4.32	40.7
ZZ34343		0.21	0.004	0.32	5.35	7.6	1150	1.53	0.15	2.45	0.59	63.2	17.3	269	2.98	34.3
ZZ34344		0.21	0.004	0.22	6.02	9.0	1300	1.59	0.16	1.76	0.40	70.9	20.8	304	3.48	35.6
ZZ34345		0.18	0.011	0.73	9.00	55.6	1460	3.45	0.54	1.20	0.46	69.7	17.5	112	11.90	52.5
ZZ34346		0.17	0.038	1.62	7.66	60.8	1330	2.27	0.76	0.63	3.52	69.2	19.6	142	10.50	182.5
ZZ34347		0.24	0.007	0.46	6.54	16.8	1820	1.96	0.22	1.40	0.34	70.1	20.7	295	4.96	36.1
ZZ34348		0.19	0.002	0.17	6.48	8.6	1490	1.84	0.16	1.42	0.19	74.9	14.3	195	4.14	19.9
ZZ34349		0.26	0.005	0.33	7.22	17.7	2670	2.82	0.19	1.15	0.32	102.0	13.0	152	8.19	21.9
ZZ34350		0.21	0.004	0.29	6.96	8.1	1530	2.14	0.12	2.00	0.26	69.8	29.9	390	3.63	44.8
ZZ34351		0.10	0.015	1.04	7.36	28.1	1570	2.34	0.27	1.81	3.89	61.5	20.6	148	6.56	76.5
ZZ34352		0.12	0.003	0.51	8.50	24.1	1260	2.98	0.37	1.06	3.27	68.9	22.9	114	9.31	57.6
ZZ34353		0.22	0.023	1.31	8.61	42.5	1910	3.06	0.35	0.66	2.04	87.6	23.4	152	9.51	93.4
ZZ34354		0.17	0.010	0.74	8.73	17.6	1510	3.13	0.37	0.66	1.14	97.2	23.6	121	8.95	67.0
ZZ34355		0.12	0.006	0.32	10.50	12.2	1870	4.37	0.53	0.26	0.24	88.0	24.8	103	14.40	51.1
ZZ34356		0.11	0.002	0.40	8.35	5.5	1120	2.10	0.27	1.16	0.75	72.1	14.1	77	4.97	27.2
ZZ34357		0.20	0.003	0.40	9.98	10.6	1570	3.41	0.43	0.95	0.34	88.6	17.5	94	11.95	44.9
ZZ34358		0.14	0.018	0.75	7.72	35.7	1260	3.04	0.47	0.40	1.04	77.1	15.6	89	6.73	113.5
ZZ34359		0.18	0.001	0.19	7.93	7.7	1070	2.20	0.29	0.91	0.84	82.4	15.4	84	4.63	25.5
ZZ34360		0.08	0.005	1.02	7.42	4.6	960	1.94	0.25	1.41	1.80	66.6	14.3	60	5.00	29.9
ZZ34361		0.26	0.005	1.19	8.07	13.6	1010	2.36	0.30	1.69	2.09	66.6	15.6	68	7.08	63.3
ZZ34362		0.11	0.002	0.25	8.45	9.1	1130	2.37	0.32	1.07	0.63	76.1	18.3	74	5.37	32.5
ZZ34363		0.12	0.001	0.29	8.85	9.3	1420	2.60	0.36	0.91	0.77	100.5	16.2	94	6.59	31.4
ZZ34364		0.12	0.002	0.38	8.96	12.2	1370	2.54	0.34	1.56	1.71	83.4	25.0	92	7.49	56.0



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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ34325		3.08	13.05	0.10	1.8	0.022	1.25	23.3	22.9	0.74	411	1.27	1.31	9.8	24.7	430
ZZ34326		2.92	13.55	0.14	1.7	0.030	1.15	24.5	20.8	0.69	321	1.15	1.36	10.7	22.1	240
ZZ34327		3.16	14.65	0.12	2.3	0.029	1.57	27.3	23.7	0.85	322	0.91	1.38	9.8	19.2	360
ZZ34328		3.11	13.00	0.12	1.8	0.029	1.24	34.2	21.5	0.76	437	1.04	1.40	9.8	25.0	320
ZZ34329		3.03	13.45	0.14	1.8	0.031	1.22	29.6	23.2	0.75	326	1.03	1.33	10.5	24.9	370
ZZ34330		3.06	14.45	0.13	2.3	0.026	1.25	29.1	23.0	0.75	337	1.03	1.38	10.5	21.0	230
ZZ34331		3.08	13.50	0.12	1.9	0.029	1.23	29.9	20.4	0.77	363	1.12	1.42	9.9	23.9	320
ZZ34332		2.93	14.50	0.11	1.8	0.028	1.24	27.2	21.9	0.75	315	1.10	1.38	10.1	20.7	340
ZZ34333		2.87	14.30	0.12	2.2	0.028	1.41	35.4	21.6	1.02	416	1.00	1.33	10.2	29.6	370
ZZ34334		2.84	13.25	0.14	2.0	0.024	1.27	30.7	20.0	0.78	368	0.90	1.57	9.5	23.1	620
ZZ34335		2.67	12.75	0.13	1.9	0.031	1.20	32.8	19.6	0.82	328	0.66	1.50	10.1	24.6	680
ZZ34336		2.64	12.55	0.13	1.8	0.028	1.24	30.0	19.5	0.75	318	0.85	1.52	9.4	22.6	640
ZZ34337		2.93	12.60	0.13	2.0	0.028	1.25	32.2	18.9	0.79	442	1.00	1.49	10.9	23.9	600
ZZ34338		2.80	13.45	0.10	1.8	0.029	1.28	29.6	19.4	0.77	348	0.92	1.49	10.0	23.0	480
ZZ34339		2.82	13.85	0.09	2.1	0.031	1.29	30.5	21.0	0.76	339	1.01	1.43	10.1	19.5	610
ZZ34340		2.70	13.90	0.12	2.7	0.028	1.22	31.3	19.1	0.73	298	0.99	1.42	10.1	18.2	580
ZZ34341		3.89	19.60	0.14	2.8	0.050	2.18	34.4	29.8	2.12	588	3.52	1.20	11.8	74.7	460
ZZ34342		4.33	18.35	0.15	3.5	0.041	2.36	34.3	30.5	3.41	795	2.01	1.30	11.1	86.7	670
ZZ34343		3.35	14.20	0.14	2.9	0.034	1.90	31.1	23.1	2.81	759	1.09	1.06	9.0	72.5	530
ZZ34344		4.05	15.95	0.14	3.5	0.044	2.05	35.0	26.3	3.57	733	1.28	1.11	9.5	88.2	580
ZZ34345		3.09	27.0	0.16	4.1	0.071	2.41	31.0	61.0	0.52	233	5.64	1.37	19.5	50.7	990
ZZ34346		4.07	21.2	0.21	3.5	0.126	2.11	33.3	44.3	0.65	495	35.9	0.73	12.8	56.6	980
ZZ34347		4.19	18.40	0.16	3.9	0.054	2.58	34.5	30.2	3.41	718	2.23	1.13	11.7	108.5	700
ZZ34348		3.66	17.10	0.14	2.9	0.047	2.32	33.2	24.2	2.50	596	1.17	1.27	11.0	45.0	490
ZZ34349		3.49	23.2	0.18	4.8	0.080	3.54	42.3	27.4	2.28	545	1.28	1.05	14.4	46.0	530
ZZ34350		5.20	19.90	0.19	4.0	0.058	1.97	37.2	32.5	4.64	1030	1.43	1.78	10.7	94.0	710
ZZ34351		4.02	19.10	0.20	3.0	0.062	2.10	31.3	35.5	1.51	710	8.26	1.00	12.3	78.0	940
ZZ34352		4.33	21.6	0.21	3.3	0.080	1.99	34.6	53.5	0.96	749	17.35	0.96	16.1	63.8	750
ZZ34353		4.85	23.7	0.25	3.9	0.084	2.63	44.8	43.7	1.37	603	24.6	0.77	15.6	102.5	760
ZZ34354		4.36	23.4	0.26	3.7	0.080	2.24	48.7	55.0	1.24	659	9.33	0.84	16.5	68.9	770
ZZ34355		5.05	29.8	0.19	4.1	0.100	2.69	41.5	86.1	1.13	792	2.84	0.84	20.8	47.6	700
ZZ34356		3.73	20.5	0.18	2.7	0.060	1.73	36.8	52.0	0.90	688	2.31	1.39	14.2	29.8	720
ZZ34357		4.71	25.8	0.20	3.4	0.085	2.47	43.6	66.3	1.02	770	2.79	1.06	17.7	37.1	660
ZZ34358		3.85	19.85	0.24	3.1	0.074	1.84	39.0	33.4	0.63	430	22.2	1.27	13.5	60.4	550
ZZ34359		3.78	20.0	0.19	2.5	0.060	1.73	42.2	53.3	0.89	540	1.62	1.19	15.4	35.2	640
ZZ34360		3.19	19.40	0.18	2.8	0.053	1.77	32.9	36.9	0.76	1060	2.27	1.45	12.2	26.7	800
ZZ34361		3.53	19.90	0.20	3.1	0.059	1.83	33.6	58.9	0.78	784	12.15	1.41	12.3	51.3	590
ZZ34362		3.87	21.5	0.18	3.0	0.065	1.87	39.7	50.9	0.90	559	2.84	1.58	14.5	33.8	430
ZZ34363		4.26	22.8	0.22	2.9	0.077	2.13	50.4	55.6	1.02	498	2.15	1.27	17.4	37.7	660
ZZ34364		4.40	23.2	0.21	3.4	0.072	1.98	41.8	50.9	1.10	1160	8.50	1.40	15.5	58.8	710



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Sample Description	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
	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	
ZZ34325	13.0	70.7	<0.002	0.01	1.17	9.8	2	1.4	198.5	0.72	<0.05	7.1	0.361	0.48	1.7	
ZZ34326	13.2	58.0	<0.002	0.01	1.02	9.8	1	1.5	200	0.85	<0.05	6.8	0.389	0.46	1.7	
ZZ34327	14.0	81.7	<0.002	0.01	1.04	11.2	2	1.5	191.5	0.79	0.05	8.6	0.376	0.57	2.0	
ZZ34328	13.6	61.0	0.002	0.01	1.14	12.6	2	1.4	225	0.72	0.09	9.7	0.364	0.48	2.5	
ZZ34329	14.3	57.9	<0.002	0.01	0.98	10.7	2	1.5	201	1.08	0.12	9.0	0.385	0.52	2.2	
ZZ34330	15.3	62.1	0.002	<0.01	1.10	11.0	2	1.5	209	0.81	0.21	8.7	0.385	0.49	2.0	
ZZ34331	13.9	60.4	<0.002	0.01	1.05	10.9	2	1.5	218	0.77	<0.05	9.8	0.383	0.51	2.3	
ZZ34332	14.1	62.1	0.002	0.01	1.00	10.6	2	1.5	212	0.75	0.09	8.1	0.375	0.48	2.0	
ZZ34333	17.4	73.3	0.002	<0.01	1.12	13.6	1	1.5	189.5	0.75	<0.05	9.7	0.383	0.45	2.2	
ZZ34334	12.6	59.6	<0.002	0.01	0.98	11.4	2	1.2	266	0.67	<0.05	8.3	0.373	0.42	2.0	
ZZ34335	12.1	55.5	0.002	0.01	1.01	12.2	2	1.3	252	0.77	0.15	8.5	0.395	0.41	2.2	
ZZ34336	12.2	57.8	<0.002	0.01	0.98	11.1	2	1.2	255	0.72	<0.05	8.1	0.369	0.42	2.2	
ZZ34337	12.1	59.9	<0.002	0.01	1.08	11.3	2	1.3	245	1.31	0.10	9.5	0.419	0.41	2.1	
ZZ34338	12.7	61.9	<0.002	0.01	1.06	11.2	2	1.4	241	0.75	0.07	8.4	0.392	0.44	1.9	
ZZ34339	14.5	63.8	0.002	0.01	0.98	11.2	2	1.4	222	0.74	0.05	8.5	0.385	0.48	2.2	
ZZ34340	14.8	57.0	<0.002	0.01	0.82	11.5	2	1.6	213	0.78	0.15	8.7	0.413	0.48	2.6	
ZZ34341	29.1	110.5	<0.002	0.07	2.76	18.0	5	2.2	188.5	0.85	0.19	12.1	0.403	1.02	3.3	
ZZ34342	28.4	99.6	<0.002	0.03	2.18	21.0	2	1.9	127.5	0.84	0.06	11.9	0.416	0.75	2.5	
ZZ34343	27.4	92.1	0.002	0.08	1.11	17.2	4	1.5	166.0	0.67	<0.05	10.6	0.348	0.58	3.8	
ZZ34344	29.5	103.0	0.003	0.06	1.22	19.8	3	1.6	119.0	0.72	0.10	11.4	0.358	0.62	3.2	
ZZ34345	19.5	110.5	0.002	0.03	10.40	16.6	5	3.7	271	1.44	0.16	13.0	0.570	1.35	3.2	
ZZ34346	106.5	125.5	0.005	0.07	29.2	18.3	10	4.2	216	0.93	0.41	12.4	0.407	1.74	4.5	
ZZ34347	34.5	104.5	<0.002	0.05	1.50	18.3	3	2.2	112.0	0.89	0.12	12.3	0.363	0.85	3.3	
ZZ34348	25.4	93.8	<0.002	0.02	1.07	17.5	2	1.8	137.5	0.81	0.11	11.1	0.363	0.63	2.6	
ZZ34349	32.3	131.5	0.002	0.07	1.43	17.8	2	2.9	118.5	1.12	0.08	15.4	0.298	1.01	4.1	
ZZ34350	21.9	77.9	0.003	0.09	0.97	27.9	1	1.8	105.0	0.76	<0.05	12.5	0.419	0.50	3.2	
ZZ34351	26.2	101.0	0.008	0.05	6.30	19.5	5	2.1	155.0	0.84	0.12	11.5	0.422	1.29	2.9	
ZZ34352	38.1	110.5	0.004	0.04	4.75	18.2	4	2.7	171.0	1.15	0.17	12.1	0.511	1.32	2.6	
ZZ34353	30.9	128.0	0.005	0.06	9.81	22.2	5	2.7	100.5	1.08	0.19	14.6	0.497	2.00	4.0	
ZZ34354	29.9	119.5	0.005	0.03	3.62	20.3	3	2.8	120.5	1.18	0.16	15.2	0.498	1.34	3.6	
ZZ34355	31.3	140.0	0.003	0.06	2.02	23.1	<1	3.6	195.0	1.47	0.20	16.7	0.584	1.26	2.7	
ZZ34356	20.0	80.2	0.002	0.03	1.09	13.5	<1	2.1	263	0.99	0.10	10.9	0.490	0.70	1.8	
ZZ34357	27.3	132.5	0.002	0.05	1.89	19.5	<1	3.0	253	1.22	0.16	15.7	0.541	1.17	2.5	
ZZ34358	75.2	102.5	0.002	0.07	6.62	17.5	2	2.5	173.5	0.94	0.30	12.2	0.424	1.23	3.1	
ZZ34359	18.8	84.0	<0.002	0.02	1.25	14.2	<1	2.3	183.0	1.08	0.11	12.0	0.518	0.71	2.0	
ZZ34360	21.9	76.4	0.002	0.04	1.12	11.3	<1	1.8	301	0.86	0.09	8.6	0.433	0.60	1.9	
ZZ34361	26.7	84.9	0.005	0.05	3.31	13.0	5	2.0	288	0.86	0.12	10.5	0.386	1.05	3.1	
ZZ34362	21.9	90.2	<0.002	0.02	1.36	13.3	<1	2.2	284	1.02	0.10	10.8	0.490	0.73	2.2	
ZZ34363	17.5	108.5	<0.002	0.04	1.37	16.9	<1	2.7	179.5	1.26	0.13	14.1	0.562	0.95	2.3	
ZZ34364	29.9	95.0	0.002	0.03	2.44	16.4	3	2.5	266	1.12	0.13	12.8	0.507	1.00	2.5	



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	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
LOR		1	0.1	0.1	2	0.5
ZZ34325		111	1.0	10.1	59	58.6
ZZ34326		115	1.2	10.4	46	57.8
ZZ34327		112	1.1	12.7	60	78.5
ZZ34328		113	1.1	18.0	56	60.7
ZZ34329		117	1.1	13.0	56	76.4
ZZ34330		111	1.1	12.3	55	66.7
ZZ34331		114	1.2	13.2	57	87.0
ZZ34332		115	1.0	11.7	54	62.2
ZZ34333		111	0.9	16.9	83	72.0
ZZ34334		109	1.0	15.2	57	62.3
ZZ34335		109	1.0	16.5	62	62.6
ZZ34336		106	0.9	14.7	59	60.2
ZZ34337		109	1.7	14.4	66	72.9
ZZ34338		110	1.0	14.4	58	67.6
ZZ34339		108	1.0	12.8	61	72.1
ZZ34340		112	1.0	14.6	47	67.2
ZZ34341		138	1.3	18.4	119	95.6
ZZ34342		144	1.0	20.3	117	119.5
ZZ34343		112	0.8	19.2	98	101.5
ZZ34344		123	0.8	22.5	107	116.5
ZZ34345		156	3.6	8.4	126	130.0
ZZ34346		197	2.0	15.7	218	120.5
ZZ34347		126	0.9	22.5	116	126.0
ZZ34348		114	0.9	19.9	98	101.0
ZZ34349		80	1.3	27.9	121	152.0
ZZ34350		169	0.7	25.9	108	145.5
ZZ34351		190	1.6	17.3	257	105.5
ZZ34352		228	2.0	11.4	228	112.5
ZZ34353		297	2.4	19.8	289	139.5
ZZ34354		186	2.0	19.1	163	127.0
ZZ34355		139	2.5	14.9	101	140.0
ZZ34356		109	1.5	10.0	130	95.5
ZZ34357		129	2.0	13.8	104	118.0
ZZ34358		146	1.7	13.9	137	104.5
ZZ34359		124	1.7	10.9	149	85.2
ZZ34360		89	1.3	10.1	124	101.0
ZZ34361		135	1.4	12.6	187	111.5
ZZ34362		112	1.5	11.3	123	104.5
ZZ34363		135	1.9	12.0	150	101.0
ZZ34364		169	1.8	13.2	195	124.0



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34365		0.11	0.007	0.58	8.63	13.7	1370	2.67	0.36	1.03	1.23	86.6	23.9	112	9.35	65.1
ZZ34366		0.27	0.004	0.81	7.25	11.9	1340	1.65	0.21	1.49	3.08	60.8	12.9	91	3.95	39.3
ZZ34367		0.33	0.003	0.44	7.13	10.8	1150	1.73	0.20	1.15	0.67	57.4	12.8	89	3.51	27.8
ZZ34368		0.13	0.019	2.74	8.48	35.9	2080	2.78	0.36	0.74	2.74	102.0	17.4	143	8.63	108.0
ZZ34369		0.25	0.007	1.86	7.52	17.4	1530	1.92	0.25	1.31	6.78	68.6	13.3	97	5.54	73.4
ZZ34370		0.23	0.011	1.63	9.52	18.6	2230	2.86	0.25	0.45	3.92	120.5	13.2	139	10.50	68.4
ZZ34371		0.28	0.005	0.20	7.43	13.3	1910	1.54	0.14	1.19	0.34	48.7	14.7	153	4.92	37.8
ZZ34372		0.37	0.004	0.47	6.80	13.1	2790	1.59	0.16	0.97	0.27	58.1	12.6	148	6.08	27.8
ZZ34373		0.21	0.002	0.41	6.33	7.7	1220	1.28	0.14	1.32	0.35	45.9	13.1	70	1.51	17.3
ZZ34374		0.34	0.005	0.21	6.12	10.7	1000	1.32	0.14	1.11	0.12	49.2	10.7	85	2.15	22.5
ZZ34375		0.23	0.057	0.27	7.70	9.8	1780	2.73	0.19	0.76	0.26	74.4	9.9	81	4.44	27.7
ZZ34376		0.33	0.003	0.09	6.31	5.0	970	1.50	0.11	1.59	0.16	57.5	26.9	333	2.65	41.6
ZZ34377		0.27	0.001	0.11	5.68	6.3	930	1.02	0.16	1.23	0.12	44.6	7.2	73	3.49	8.1
ZZ34378		0.34	0.003	0.33	6.11	8.9	930	1.19	0.17	1.19	0.13	43.9	10.0	83	2.72	16.3
ZZ34379		0.41	0.003	0.36	6.12	6.6	910	1.29	0.16	1.31	0.13	48.1	7.8	71	2.46	13.7
ZZ34380		0.27	0.004	0.07	6.28	5.6	1160	1.36	0.08	1.00	0.11	45.0	12.0	174	2.95	24.6
ZZ34381		0.38	0.003	0.19	6.20	9.6	930	1.30	0.17	1.24	0.10	48.2	9.6	75	2.49	16.2
ZZ34382		0.31	0.005	0.20	6.13	11.6	1010	1.27	0.17	1.22	0.09	47.9	10.1	94	2.62	19.5
ZZ34383		0.44	0.002	0.52	6.25	6.9	900	1.08	0.17	1.30	0.10	40.3	7.9	88	2.89	15.2
ZZ34384		0.24	0.004	0.10	6.20	8.6	1000	1.22	0.13	1.23	0.07	50.4	9.4	79	2.62	16.1
ZZ34385		0.25	0.002	0.29	6.47	5.8	1160	1.26	0.18	1.11	0.15	43.4	7.3	76	2.80	15.9
ZZ34386		0.35	0.004	0.16	5.78	7.9	1040	1.35	0.15	1.32	0.13	59.5	8.5	82	2.64	21.0
ZZ34387		0.22	0.006	0.41	5.23	10.4	1160	1.54	0.15	2.38	1.14	59.1	15.0	158	3.41	45.8
ZZ34388		0.14	0.028	2.32	6.97	38.7	1270	2.46	0.52	0.96	1.59	65.9	12.4	154	8.17	101.5
ZZ34389		0.13	0.001	0.19	6.32	8.4	1150	1.74	0.16	1.70	0.36	65.9	19.9	277	3.89	28.8
ZZ34390		0.08	0.006	0.41	4.31	4.4	920	1.46	0.13	2.60	0.66	40.9	13.2	185	2.28	31.9
ZZ34391		0.18	0.003	0.32	7.24	10.9	1800	2.50	0.18	1.22	0.22	79.6	11.3	121	4.25	14.9
ZZ34392		0.23	0.002	0.26	6.09	8.8	1220	1.69	0.18	1.08	0.15	66.6	6.8	54	4.13	12.4
ZZ34393		0.14	0.003	0.19	6.23	8.5	1250	1.57	0.18	0.94	0.19	63.7	5.7	47	4.20	10.8
ZZ34394		0.18	0.001	0.19	5.57	8.5	1130	1.42	0.18	1.08	0.18	60.0	6.0	57	3.83	9.0
ZZ34395		0.13	0.002	0.29	6.23	7.8	1340	1.87	0.19	1.08	0.34	53.0	10.1	59	3.21	18.6
ZZ34396		0.26	0.003	0.16	6.01	10.4	960	1.31	0.17	1.31	0.17	51.2	9.3	73	2.25	17.2
ZZ34397		0.26	0.010	0.34	7.34	12.6	2830	2.32	0.27	0.46	0.30	72.2	9.2	124	7.50	30.2
ZZ34398		0.22	0.005	0.15	6.82	5.9	1860	2.06	0.19	1.04	0.17	87.2	5.9	53	4.59	11.7
ZZ34399		0.18	0.006	0.19	6.04	10.2	1230	1.58	0.20	1.06	0.16	84.5	6.0	60	3.86	12.0
ZZ34400		0.09	0.001	0.27	5.90	8.7	1130	1.29	0.19	1.04	0.11	57.6	6.8	52	3.07	12.5
ZZ34401		0.27	0.002	0.26	6.52	8.0	1960	1.77	0.20	1.07	0.18	90.0	9.6	52	4.13	21.2
ZZ34402		0.12	0.003	0.28	5.72	6.0	1430	1.92	0.16	1.98	0.27	76.0	15.3	275	4.37	37.6
ZZ34403		0.20	0.011	0.76	7.40	40.9	2930	2.97	0.30	0.58	0.65	96.6	15.2	98	10.50	32.4
ZZ34404		0.25	0.003	0.24	6.98	8.3	2230	2.42	0.23	1.14	0.29	109.5	7.1	57	6.40	21.6



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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ34365		4.30	23.0	0.21	3.6	0.085	2.05	43.1	49.4	1.04	853	7.56	0.99	17.1	67.5	760
ZZ34366		3.31	18.25	0.19	2.6	0.056	1.67	30.8	26.4	0.83	583	13.75	1.38	11.5	49.6	670
ZZ34367		3.38	16.75	0.19	2.1	0.051	1.44	28.9	29.5	0.86	391	6.67	1.37	12.6	40.1	410
ZZ34368		4.54	23.5	0.29	3.7	0.090	2.55	52.6	28.6	0.90	446	45.8	0.79	14.8	116.5	830
ZZ34369		3.29	19.30	0.18	3.1	0.056	1.93	35.2	24.5	0.73	741	21.4	1.35	11.9	58.2	610
ZZ34370		4.60	27.3	0.28	3.7	0.092	2.63	58.3	58.3	1.51	247	21.3	0.39	18.3	98.1	940
ZZ34371		3.53	17.00	0.18	2.2	0.053	1.64	26.0	38.4	1.96	454	2.84	1.15	8.8	50.3	410
ZZ34372		3.20	16.95	0.19	2.5	0.049	1.74	31.8	30.9	1.37	326	3.47	1.00	10.1	37.0	630
ZZ34373		2.91	14.65	0.14	1.9	0.038	1.20	23.3	22.2	0.72	1700	1.45	1.59	9.9	29.2	350
ZZ34374		3.14	13.35	0.15	1.8	0.043	1.21	26.5	22.0	0.77	379	0.95	1.54	9.6	29.7	200
ZZ34375		3.72	21.1	0.21	3.7	0.081	2.50	37.9	34.3	0.99	511	0.99	1.69	12.3	24.3	480
ZZ34376		4.57	16.35	0.17	3.0	0.050	0.99	29.9	33.2	3.46	754	0.61	1.83	10.7	84.6	580
ZZ34377		2.39	14.55	0.14	1.7	0.034	1.34	23.2	24.8	0.77	353	0.79	1.45	10.7	16.5	520
ZZ34378		3.16	14.70	0.16	1.8	0.037	1.23	23.4	21.2	0.81	406	1.26	1.43	10.1	21.4	340
ZZ34379		2.62	15.30	0.16	2.0	0.038	1.34	25.2	20.5	0.75	332	1.12	1.61	10.3	17.9	300
ZZ34380		3.63	15.05	0.18	2.2	0.047	1.70	23.1	24.8	2.01	496	0.61	1.39	10.5	41.8	630
ZZ34381		3.05	14.85	0.16	1.9	0.041	1.30	25.5	22.7	0.79	364	1.12	1.53	10.6	22.4	320
ZZ34382		3.32	14.15	0.16	1.9	0.043	1.25	24.9	24.2	0.88	355	1.14	1.38	10.3	26.0	460
ZZ34383		2.94	15.40	0.15	2.1	0.037	1.29	21.8	19.8	0.94	381	1.18	1.57	10.1	19.9	320
ZZ34384		2.88	14.10	0.17	1.8	0.042	1.31	26.4	20.7	0.84	355	0.89	1.52	10.4	23.1	360
ZZ34385		2.58	16.45	0.16	2.6	0.047	1.56	22.5	24.6	0.85	345	1.00	1.54	10.3	17.5	460
ZZ34386		2.85	13.85	0.07	2.1	0.055	1.16	30.7	19.8	0.84	303	0.80	1.47	9.9	25.2	660
ZZ34387		3.13	13.35	0.10	2.9	0.052	1.57	30.6	21.5	1.83	617	3.04	1.17	9.1	59.5	890
ZZ34388		3.48	19.75	0.13	3.8	0.093	2.06	32.8	32.8	0.94	311	19.45	0.93	14.2	58.3	790
ZZ34389		4.05	17.15	0.10	3.3	0.060	1.98	32.0	25.9	3.27	653	1.20	1.34	10.2	76.3	520
ZZ34390		2.84	11.35	0.07	2.2	0.047	1.57	22.3	16.0	2.45	626	0.81	0.65	6.4	40.1	730
ZZ34391		3.45	20.8	0.11	3.5	0.075	2.96	40.3	23.4	1.87	454	1.08	1.11	12.7	40.6	400
ZZ34392		2.60	16.30	0.08	2.7	0.055	1.75	37.0	20.7	0.75	348	1.12	1.38	11.2	16.5	300
ZZ34393		2.77	17.00	0.07	2.9	0.052	1.81	32.9	20.0	0.70	331	1.23	1.50	11.8	14.5	270
ZZ34394		2.50	14.35	0.08	2.3	0.048	1.47	31.3	21.9	0.70	290	1.01	1.40	10.9	15.8	320
ZZ34395		2.84	16.60	0.07	2.8	0.103	1.68	27.8	21.7	0.70	1190	1.25	1.55	11.4	21.7	290
ZZ34396		2.95	14.05	0.07	2.0	0.045	1.20	26.7	20.2	0.78	340	1.34	1.55	10.5	26.8	370
ZZ34397		3.04	20.8	0.11	3.4	0.073	2.50	37.1	31.6	1.79	224	3.16	0.71	13.4	71.7	530
ZZ34398		2.70	18.60	0.13	3.5	0.060	1.90	45.6	24.1	0.88	295	1.34	1.43	13.1	17.1	600
ZZ34399		2.89	16.00	0.09	3.5	0.063	1.61	45.8	22.2	0.73	308	1.47	1.47	11.7	17.1	550
ZZ34400		2.84	15.85	0.07	2.5	0.052	1.47	32.7	21.4	0.65	318	1.32	1.50	10.4	16.7	460
ZZ34401		2.92	17.25	0.11	3.5	0.063	1.69	44.3	22.2	0.71	1120	1.59	1.58	11.1	17.3	400
ZZ34402		3.73	16.90	0.13	3.7	0.061	2.10	42.9	24.3	3.40	532	1.09	0.79	9.5	99.2	590
ZZ34403		4.39	23.4	0.15	6.0	0.088	4.11	49.1	23.3	1.85	886	3.88	0.96	14.5	36.2	640
ZZ34404		2.88	20.2	0.17	4.1	0.074	2.46	60.2	24.6	1.19	387	1.72	1.24	13.7	22.9	580



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34365		27.4	117.5	<0.002	0.05	2.49	19.4	<1	2.8	151.5	1.24	0.14	14.6	0.548	1.18	2.7
ZZ34366		18.2	69.9	0.002	0.02	2.99	12.8	<1	1.8	262	0.82	0.09	7.9	0.439	1.34	2.4
ZZ34367		15.2	65.4	<0.002	0.02	1.75	12.5	<1	1.9	218	0.90	0.08	8.9	0.452	0.86	2.0
ZZ34368		31.5	129.5	0.002	0.07	8.54	20.9	8	2.8	132.5	1.05	0.25	15.2	0.473	2.95	4.5
ZZ34369		20.7	95.5	0.003	0.02	4.48	13.1	<1	2.0	273	0.85	0.14	9.0	0.409	1.91	3.4
ZZ34370		21.4	129.0	0.002	0.04	4.81	20.5	2	3.3	87.0	1.32	0.16	13.9	0.582	2.71	4.0
ZZ34371		15.1	66.6	<0.002	0.01	2.86	17.5	<1	1.4	136.5	0.64	0.05	7.6	0.372	0.66	2.5
ZZ34372		18.3	77.6	<0.002	0.01	2.91	16.8	<1	1.5	150.5	0.71	0.05	7.6	0.400	0.79	3.0
ZZ34373		12.9	42.7	<0.002	0.01	1.00	9.8	<1	1.4	266	0.71	<0.05	6.4	0.381	0.45	1.7
ZZ34374		12.7	50.5	<0.002	0.01	1.15	10.2	<1	1.3	247	0.70	0.05	7.4	0.378	0.40	1.8
ZZ34375		20.8	132.0	<0.002	0.01	1.41	15.2	<1	2.4	151.0	0.87	0.05	13.1	0.344	0.78	2.8
ZZ34376		16.3	47.1	<0.002	0.01	0.79	22.9	<1	1.6	155.0	0.76	<0.05	9.1	0.452	0.39	2.1
ZZ34377		14.3	83.7	<0.002	0.01	0.72	10.0	<1	1.6	210	0.77	<0.05	6.2	0.411	0.53	1.7
ZZ34378		16.9	60.5	<0.002	0.01	0.90	10.0	<1	1.4	222	0.72	<0.05	6.6	0.401	0.47	1.8
ZZ34379		14.9	60.3	<0.002	0.01	0.80	9.6	<1	1.4	265	0.75	<0.05	6.9	0.390	0.48	1.9
ZZ34380		13.9	77.1	<0.002	<0.01	0.89	16.0	<1	1.3	159.0	0.72	<0.05	6.2	0.429	0.52	1.6
ZZ34381		14.1	57.7	<0.002	0.01	0.98	10.0	<1	1.5	243	0.78	0.05	7.1	0.390	0.47	2.0
ZZ34382		15.9	55.3	<0.002	0.01	0.96	11.0	<1	1.5	212	0.80	0.05	8.1	0.375	0.48	2.1
ZZ34383		13.7	67.3	<0.002	0.01	0.84	10.5	<1	1.5	254	0.74	<0.05	5.9	0.404	0.53	1.9
ZZ34384		12.6	56.7	<0.002	0.01	0.88	10.9	<1	1.4	239	0.70	<0.05	6.6	0.392	0.45	1.9
ZZ34385		15.4	83.8	<0.002	0.01	0.83	11.2	<1	1.7	226	0.77	0.05	7.0	0.349	0.61	2.1
ZZ34386		14.4	57.5	<0.002	0.01	0.88	11.8	2	1.5	223	0.71	<0.05	7.8	0.369	0.47	2.4
ZZ34387		18.9	78.3	0.004	0.10	2.59	14.1	6	1.3	199.0	0.65	0.05	9.4	0.323	0.63	3.6
ZZ34388		49.0	128.5	0.005	0.07	12.95	16.2	10	3.4	154.0	1.05	0.26	12.5	0.422	1.62	4.0
ZZ34389		26.4	102.0	0.002	0.04	1.08	19.3	2	1.7	136.0	0.72	<0.05	9.6	0.389	0.65	2.7
ZZ34390		78.6	81.3	0.002	0.14	0.73	14.1	4	1.1	189.0	0.45	<0.05	6.8	0.266	0.47	3.9
ZZ34391		29.8	128.5	<0.002	0.03	1.19	15.0	2	2.7	138.0	0.92	<0.05	13.4	0.307	0.90	3.3
ZZ34392		18.7	92.6	<0.002	0.01	1.03	9.7	1	2.0	204	0.83	<0.05	9.4	0.320	0.61	2.5
ZZ34393		18.2	99.0	<0.002	0.02	1.05	9.8	2	2.0	193.0	0.85	<0.05	9.4	0.313	0.64	2.6
ZZ34394		18.9	85.3	<0.002	0.01	0.93	9.5	1	1.8	189.0	0.86	<0.05	8.4	0.343	0.61	2.3
ZZ34395		16.5	86.3	<0.002	0.02	1.10	10.0	2	2.0	202	0.86	<0.05	9.6	0.334	0.54	2.4
ZZ34396		14.4	54.1	<0.002	0.01	1.01	10.2	2	1.5	239	0.77	<0.05	7.3	0.372	0.46	2.0
ZZ34397		31.2	114.5	<0.002	0.02	2.32	14.3	3	2.9	91.4	0.95	0.05	11.8	0.330	0.97	3.0
ZZ34398		20.8	99.8	<0.002	0.02	1.09	11.1	1	2.4	193.5	0.97	<0.05	14.0	0.337	0.72	3.6
ZZ34399		23.7	83.6	0.002	0.02	1.19	11.1	1	1.9	191.5	0.83	<0.05	13.3	0.351	0.58	3.3
ZZ34400		20.3	70.8	<0.002	0.04	1.03	9.1	2	1.6	222	0.72	<0.05	8.7	0.337	0.54	2.2
ZZ34401		22.0	82.5	<0.002	0.02	1.11	10.6	2	2.0	215	0.80	<0.05	13.1	0.322	0.63	3.5
ZZ34402		36.0	86.1	<0.002	0.07	1.30	17.3	3	1.8	175.0	0.67	<0.05	12.8	0.294	0.65	6.6
ZZ34403		57.2	212	0.002	0.11	2.73	16.5	4	3.1	94.2	1.04	<0.05	21.8	0.271	1.32	6.4
ZZ34404		30.5	110.5	<0.002	0.04	1.47	13.6	3	2.6	177.5	0.97	<0.05	18.1	0.285	0.85	4.8



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ34365		166	2.1	14.3	149	122.0
ZZ34366		228	1.3	11.7	237	89.0
ZZ34367		154	1.3	11.8	138	71.0
ZZ34368		472	2.0	27.8	405	136.5
ZZ34369		284	1.4	16.4	256	104.5
ZZ34370		343	2.4	18.8	370	128.5
ZZ34371		157	1.0	15.6	89	72.2
ZZ34372		154	1.0	16.5	97	98.8
ZZ34373		108	1.0	10.7	92	68.2
ZZ34374		115	1.4	11.2	54	61.7
ZZ34375		111	1.3	17.9	81	125.5
ZZ34376		163	0.6	18.3	81	107.5
ZZ34377		117	1.1	11.2	47	61.9
ZZ34378		125	1.1	10.4	55	79.1
ZZ34379		109	1.1	11.1	50	72.8
ZZ34380		142	1.1	14.0	75	73.5
ZZ34381		120	1.1	11.6	55	68.8
ZZ34382		126	1.5	11.9	56	64.3
ZZ34383		117	1.1	11.0	56	91.1
ZZ34384		118	1.1	12.5	52	59.7
ZZ34385		94	1.0	12.7	58	97.7
ZZ34386		108	1.0	15.7	57	65.1
ZZ34387		106	1.1	18.2	103	101.0
ZZ34388		154	1.8	12.9	215	123.5
ZZ34389		127	0.8	20.4	97	109.5
ZZ34390		85	0.6	16.0	122	76.7
ZZ34391		71	1.2	23.5	93	121.0
ZZ34392		85	1.1	14.8	62	89.1
ZZ34393		81	1.0	13.0	66	104.0
ZZ34394		94	1.1	13.7	54	79.2
ZZ34395		90	1.1	11.9	97	97.9
ZZ34396		110	1.0	12.6	56	65.0
ZZ34397		137	1.8	15.3	120	115.0
ZZ34398		87	2.0	20.7	80	121.0
ZZ34399		91	1.0	17.4	65	125.0
ZZ34400		90	1.0	11.6	64	90.5
ZZ34401		80	1.1	20.3	71	133.0
ZZ34402		97	0.8	27.0	105	134.5
ZZ34403		76	1.6	35.6	167	200
ZZ34404		71	1.3	34.9	107	145.0



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34405		0.16	0.006	0.31	6.58	11.2	1390	2.14	0.16	1.94	0.35	75.6	20.6	328	4.04	45.5
ZZ34406		0.19	0.006	0.41	5.90	4.5	1050	1.78	0.12	2.37	0.50	82.2	35.7	486	4.89	55.6
ZZ34407		0.22	0.003	0.26	6.91	7.3	1170	1.98	0.12	1.39	0.14	65.9	28.1	410	4.17	41.3
ZZ34408		0.20	0.007	0.34	6.88	4.9	960	2.13	0.15	2.39	0.36	70.3	36.8	447	3.29	56.2
ZZ34409		0.12	0.003	0.10	6.85	7.0	1560	2.19	0.15	2.53	0.21	59.0	20.5	346	3.19	22.2
ZZ34410		0.19	0.003	0.19	6.26	7.2	1230	1.59	0.17	1.17	0.12	51.9	9.2	71	3.29	12.0
ZZ34411		0.22	0.005	0.13	5.75	9.8	1070	1.44	0.16	1.11	0.13	57.6	8.4	63	2.88	17.2
ZZ34412		0.23	0.003	0.23	5.54	9.0	1000	1.11	0.17	1.11	0.11	47.4	8.5	66	2.43	13.2
ZZ34413		0.24	0.013	0.33	5.76	11.0	1000	1.41	0.16	1.18	0.19	54.9	9.5	70	2.78	17.0
ZZ34414		0.18	0.004	0.16	6.30	6.7	1620	1.82	0.18	1.21	0.15	76.4	7.0	56	3.65	14.3
ZZ34415		0.12	0.002	0.28	6.31	8.2	1480	1.63	0.18	1.14	0.21	76.0	6.3	56	3.56	12.5
ZZ34416		0.19	0.002	0.17	6.19	9.1	1220	1.67	0.18	0.79	0.16	56.6	6.4	50	3.99	11.2
ZZ34417		0.22	0.002	0.25	5.72	9.1	990	1.32	0.18	1.08	0.23	54.8	6.9	57	3.35	11.3
ZZ34418		0.23	0.002	0.15	6.15	10.1	1070	1.56	0.21	0.99	0.12	57.3	9.3	70	3.43	14.9
ZZ34419		0.23	0.003	0.11	5.64	11.7	910	1.49	0.21	1.14	0.09	52.7	8.9	79	2.62	12.6
ZZ34420		0.20	0.003	0.11	5.79	10.4	1000	1.36	0.21	1.16	0.09	53.2	8.7	73	2.61	16.5
ZZ34421		0.18	0.005	0.10	5.76	9.6	1070	1.33	0.19	1.22	0.08	56.8	7.3	69	2.56	14.3
ZZ34422		0.18	0.002	0.11	5.74	8.0	910	1.20	0.12	1.48	0.21	49.9	8.4	71	1.88	17.4
ZZ34423		0.24	0.003	0.08	5.80	8.9	900	1.27	0.14	1.32	0.14	50.9	8.8	81	2.15	14.7
ZZ34424		0.23	0.005	0.07	5.71	10.2	910	1.47	0.15	1.20	0.11	63.5	10.1	74	2.21	19.0
ZZ34425		0.28	0.003	0.06	5.96	10.9	930	1.28	0.15	1.25	0.11	54.6	9.6	76	2.22	19.5
ZZ34426		0.23	0.002	0.07	5.81	8.1	1090	1.27	0.12	1.24	0.10	64.3	8.2	73	2.32	23.6
ZZ34427		0.25	0.002	0.08	5.98	10.8	1060	1.31	0.15	1.28	0.10	59.4	8.7	75	2.26	22.2
ZZ34428		0.24	0.004	0.16	6.45	18.0	1190	1.61	0.17	1.06	0.13	68.2	9.6	70	3.40	18.0
ZZ34429		0.22	0.004	0.41	6.38	15.4	1010	1.33	0.18	1.31	0.15	53.7	10.7	83	2.61	22.4
ZZ34430		0.22	0.005	0.24	7.32	14.9	2920	1.85	0.22	0.65	0.13	53.7	17.6	231	3.88	36.9
ZZ34431		0.24	0.005	0.31	6.64	16.4	1940	1.48	0.16	1.08	0.36	55.7	19.0	187	2.87	43.9
ZZ34432		0.18	0.004	0.32	9.32	20.8	2300	3.08	0.28	0.11	0.15	114.5	14.0	88	6.97	59.4
ZZ34433		0.24	0.003	0.50	8.98	12.9	2330	2.58	0.27	0.46	0.25	98.6	6.8	68	5.55	24.9
ZZ34434		0.19	0.007	0.58	8.03	15.1	2880	2.65	0.22	1.35	0.57	98.9	10.3	98	6.47	39.9
ZZ34435		0.23	0.010	0.52	7.08	24.0	1870	1.72	0.16	1.71	0.52	62.3	23.6	301	4.48	51.8
ZZ34436		0.30	0.011	0.37	7.11	19.3	2000	2.04	0.16	1.38	0.50	81.1	20.2	226	5.87	39.8
ZZ34437		0.23	0.015	0.45	7.11	23.5	2050	1.84	0.16	1.43	0.52	78.6	23.0	259	4.87	49.6
ZZ34438		0.15	0.010	0.39	6.71	11.5	1810	1.78	0.14	1.96	0.73	58.6	20.6	263	4.52	38.5
ZZ34439		0.23	0.010	0.43	6.68	20.1	1540	1.63	0.16	1.80	0.35	59.6	26.3	314	4.03	59.3
ZZ34440		0.23	0.008	0.37	6.74	22.9	1690	1.82	0.16	1.76	0.53	72.3	21.9	234	4.44	41.6
ZZ34441		0.17	0.012	0.39	6.62	24.1	1470	1.64	0.18	1.33	0.39	75.5	12.8	102	4.07	28.0
ZZ34442		0.23	0.003	0.39	7.93	8.9	2900	3.60	0.22	0.85	0.46	130.5	6.9	48	8.99	18.2
ZZ34443		0.14	0.001	0.50	9.40	4.8	3920	4.25	0.22	0.66	0.26	123.5	2.2	11	11.95	9.8
ZZ34444		0.16	0.002	0.53	9.41	5.7	3990	4.58	0.20	0.28	0.10	63.1	0.7	3	11.95	8.6



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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ34405		4.41	18.55	0.12	4.2	0.059	2.12	40.8	30.1	4.06	826	1.16	1.39	11.0	95.5	730
ZZ34406		5.43	17.25	0.12	4.0	0.061	1.76	35.4	25.8	5.19	1200	1.35	1.57	9.7	106.5	740
ZZ34407		5.46	18.50	0.10	3.7	0.055	2.08	30.4	29.3	5.78	950	1.09	1.18	9.7	94.1	610
ZZ34408		6.02	20.5	0.12	4.6	0.065	2.75	35.4	25.3	6.00	1160	1.42	1.39	11.6	100.5	870
ZZ34409		4.19	19.05	0.10	3.2	0.062	2.03	28.5	24.0	3.94	662	0.75	1.09	11.0	132.5	390
ZZ34410		2.80	15.85	0.07	2.2	0.050	1.64	26.4	23.0	0.98	449	1.01	1.39	11.4	22.9	260
ZZ34411		2.74	14.05	0.06	2.0	0.045	1.43	29.7	20.5	0.74	459	0.99	1.39	10.2	21.9	430
ZZ34412		2.79	13.30	0.06	1.9	0.041	1.13	24.7	20.6	0.68	320	1.24	1.36	10.4	21.8	200
ZZ34413		3.06	13.95	0.08	2.2	0.048	1.21	28.5	20.3	0.74	308	1.27	1.39	10.1	25.9	430
ZZ34414		2.65	16.55	0.08	3.5	0.054	1.74	40.1	21.0	0.81	340	1.26	1.51	11.9	18.5	560
ZZ34415		2.54	15.95	0.11	2.8	0.048	1.67	41.2	22.1	0.81	288	1.12	1.40	12.0	18.8	720
ZZ34416		2.77	16.50	0.09	2.1	0.062	1.73	30.1	20.4	0.77	323	1.08	1.35	11.0	14.0	300
ZZ34417		2.67	15.10	0.06	2.2	0.043	1.45	28.8	18.6	0.67	666	1.40	1.47	10.8	16.2	340
ZZ34418		3.09	15.55	0.06	2.0	0.053	1.40	31.8	21.5	0.74	359	1.23	1.36	11.5	23.2	270
ZZ34419		3.08	13.90	0.07	1.8	0.052	1.20	27.7	22.0	0.78	318	1.02	1.29	10.9	24.9	370
ZZ34420		2.80	14.70	0.06	2.1	0.048	1.23	27.7	20.3	0.74	346	1.13	1.38	11.2	22.1	410
ZZ34421		2.88	14.40	0.06	2.1	0.053	1.26	29.9	19.5	0.76	309	1.19	1.42	10.5	18.8	500
ZZ34422		2.64	13.35	0.17	2.0	0.045	1.20	25.5	18.3	0.74	352	0.92	1.57	10.6	23.6	560
ZZ34423		2.94	13.30	0.16	2.1	0.048	1.20	26.3	20.3	0.76	346	0.95	1.47	10.3	23.0	530
ZZ34424		2.86	13.65	0.19	2.1	0.048	1.18	32.4	19.8	0.72	362	1.08	1.39	10.7	24.6	450
ZZ34425		3.06	13.45	0.18	1.9	0.044	1.23	28.2	21.5	0.78	361	1.01	1.42	10.0	26.8	550
ZZ34426		2.59	13.60	0.16	2.1	0.043	1.36	33.5	19.2	0.69	367	0.82	1.42	11.3	26.4	470
ZZ34427		2.93	13.95	0.18	1.9	0.043	1.35	30.2	21.1	0.76	363	0.94	1.50	10.8	25.8	620
ZZ34428		2.97	16.00	0.17	2.3	0.050	1.74	35.0	20.8	0.76	558	1.15	1.22	10.9	26.0	420
ZZ34429		3.38	14.95	0.16	2.1	0.051	1.34	27.5	22.7	0.82	510	1.28	1.51	10.6	26.5	520
ZZ34430		3.55	18.30	0.20	2.5	0.067	2.34	27.5	23.6	2.75	419	1.98	0.65	9.0	158.5	310
ZZ34431		3.93	16.40	0.19	2.0	0.057	1.61	28.2	24.0	2.02	743	1.51	1.13	9.1	131.0	350
ZZ34432		4.73	26.3	0.28	2.4	0.091	3.82	54.3	21.4	1.13	339	2.78	0.41	9.5	48.1	480
ZZ34433		3.03	24.4	0.24	3.3	0.099	3.66	49.6	18.9	0.82	202	1.82	0.52	12.4	30.4	330
ZZ34434		3.26	22.1	0.23	3.8	0.083	2.50	52.5	39.3	1.44	456	3.19	0.77	14.2	61.8	690
ZZ34435		4.13	17.40	0.21	2.4	0.067	1.86	32.3	28.5	3.80	706	1.22	0.87	8.4	245	740
ZZ34436		3.74	18.65	0.23	3.5	0.069	2.22	40.4	29.4	3.05	793	1.42	0.97	10.9	183.5	640
ZZ34437		4.02	17.90	0.21	2.8	0.069	2.03	39.9	29.9	3.30	989	1.30	0.90	9.6	214	750
ZZ34438		3.53	17.05	0.19	2.3	0.070	1.86	29.8	28.9	3.29	657	0.93	0.85	9.0	199.5	690
ZZ34439		4.24	16.50	0.25	2.1	0.060	1.63	30.4	27.3	3.81	744	1.09	0.89	8.3	246	670
ZZ34440		3.89	17.05	0.22	2.6	0.070	1.81	36.8	27.2	2.78	885	1.16	0.93	9.2	172.0	700
ZZ34441		3.50	17.20	0.15	2.6	0.057	2.07	38.6	24.2	1.09	588	1.56	0.85	9.9	47.6	770
ZZ34442		3.36	26.1	0.19	5.0	0.109	3.55	72.6	30.2	1.41	399	1.97	1.11	16.9	13.1	460
ZZ34443		3.81	29.5	0.23	5.2	0.127	4.61	73.8	27.9	1.14	303	1.16	1.52	16.8	4.9	510
ZZ34444		3.04	31.4	0.20	5.7	0.148	4.22	47.3	28.9	1.40	108	2.42	1.25	20.7	1.7	290



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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	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
ZZ34405		20.6	108.0	<0.002	0.05	1.48	22.7	3	1.9	160.0	0.81	<0.05	12.7	0.426	0.67	3.9
ZZ34406		22.6	80.8	<0.002	0.04	1.02	29.1	2	1.5	98.6	0.69	<0.05	11.2	0.464	0.53	2.4
ZZ34407		34.9	72.7	<0.002	0.04	0.90	26.3	2	1.6	70.0	0.67	<0.05	9.9	0.435	0.70	2.8
ZZ34408		15.7	115.0	<0.002	0.05	1.16	33.7	2	1.9	54.8	0.80	<0.05	11.0	0.532	0.66	3.1
ZZ34409		17.0	86.9	<0.002	0.01	0.98	18.1	2	1.9	301	0.79	<0.05	10.3	0.394	0.62	3.2
ZZ34410		20.0	84.8	<0.002	0.01	0.98	10.1	1	1.9	200	0.84	<0.05	8.1	0.365	0.57	2.0
ZZ34411		15.5	70.1	<0.002	0.01	1.12	9.6	1	1.7	203	0.75	<0.05	8.7	0.336	0.47	2.1
ZZ34412		13.5	56.9	<0.002	0.01	1.03	9.0	1	1.5	198.0	0.74	<0.05	6.7	0.353	0.46	1.7
ZZ34413		13.8	64.1	<0.002	0.01	1.07	10.2	2	1.5	214	0.74	<0.05	8.2	0.358	0.48	2.1
ZZ34414		17.5	84.0	<0.002	0.01	1.08	11.1	1	2.3	203	0.87	<0.05	11.4	0.362	0.61	3.1
ZZ34415		18.9	83.1	<0.002	0.02	1.12	10.6	1	1.9	196.5	0.86	<0.05	10.8	0.359	0.56	3.1
ZZ34416		16.7	90.3	<0.002	0.01	1.03	10.5	1	2.0	154.5	0.78	<0.05	8.6	0.320	0.57	2.5
ZZ34417		14.1	92.5	<0.002	0.01	0.94	9.4	2	1.7	206	0.78	<0.05	7.7	0.354	0.53	2.3
ZZ34418		17.0	76.9	<0.002	0.04	1.13	9.9	2	1.8	186.5	0.88	<0.05	9.5	0.364	0.55	2.2
ZZ34419		14.2	57.6	<0.002	0.01	1.02	10.7	2	1.7	185.0	0.84	<0.05	8.9	0.375	0.50	2.2
ZZ34420		14.6	58.7	<0.002	0.01	1.06	10.4	1	1.7	204	0.88	<0.05	8.4	0.386	0.50	2.5
ZZ34421		15.4	58.5	<0.002	0.01	1.00	10.8	1	1.6	215	0.74	<0.05	8.8	0.377	0.47	2.2
ZZ34422		11.7	53.5	<0.002	0.01	0.98	10.9	2	1.4	257	0.81	0.05	6.5	0.396	0.40	1.9
ZZ34423		12.8	53.3	<0.002	0.01	0.96	10.5	<1	1.4	234	0.78	<0.05	7.3	0.399	0.43	2.0
ZZ34424		13.2	55.6	<0.002	0.01	1.13	11.2	<1	1.4	217	0.80	<0.05	9.7	0.381	0.46	2.2
ZZ34425		13.4	54.7	<0.002	0.01	1.11	10.9	<1	1.4	222	0.75	<0.05	7.9	0.384	0.44	2.0
ZZ34426		12.0	60.9	<0.002	<0.01	1.22	11.4	<1	1.5	222	0.85	<0.05	8.2	0.430	0.47	2.1
ZZ34427		13.6	58.9	<0.002	0.01	1.23	11.2	<1	1.5	239	0.81	<0.05	8.1	0.400	0.47	2.1
ZZ34428		19.4	83.3	<0.002	0.01	1.51	11.9	<1	1.8	182.0	0.84	0.05	10.5	0.368	0.62	2.4
ZZ34429		15.3	55.8	<0.002	0.01	1.21	10.8	<1	1.6	236	0.78	0.05	8.4	0.407	0.52	2.3
ZZ34430		28.2	108.5	<0.002	0.05	2.51	15.9	<1	2.7	68.9	0.65	0.08	10.0	0.345	0.83	2.1
ZZ34431		16.9	73.5	<0.002	0.02	1.84	14.7	1	1.9	157.5	0.67	0.06	9.1	0.390	0.57	2.3
ZZ34432		39.0	180.5	<0.002	0.02	1.97	18.4	<1	3.2	46.0	0.59	0.10	17.2	0.203	1.13	2.0
ZZ34433		42.7	181.5	<0.002	0.03	2.02	12.4	<1	4.3	74.7	0.88	0.06	16.5	0.239	1.20	2.3
ZZ34434		51.7	110.0	<0.002	0.03	2.42	15.2	<1	2.9	147.5	1.00	0.06	16.8	0.286	1.05	4.2
ZZ34435		21.3	86.5	<0.002	0.04	2.46	19.6	<1	1.9	111.0	0.60	0.06	11.2	0.356	0.59	2.5
ZZ34436		24.1	95.2	<0.002	0.02	2.44	16.5	1	2.3	108.5	0.80	0.05	12.9	0.325	0.64	2.9
ZZ34437		20.9	90.0	<0.002	0.02	2.66	17.6	<1	2.1	113.0	0.71	0.06	12.3	0.351	0.63	2.7
ZZ34438		17.7	84.4	<0.002	0.05	1.89	17.0	<1	2.0	127.5	0.67	<0.05	10.0	0.323	0.60	2.4
ZZ34439		19.3	76.2	<0.002	0.02	2.44	18.6	2	1.7	115.0	0.62	0.06	9.4	0.368	0.53	2.2
ZZ34440		21.1	84.2	0.002	0.06	2.25	16.3	<1	2.0	146.0	0.68	<0.05	11.9	0.333	0.59	3.0
ZZ34441		25.8	109.0	0.002	0.07	2.64	13.3	<1	2.2	156.5	0.74	0.05	12.5	0.315	0.77	3.2
ZZ34442		42.0	134.5	<0.002	0.26	1.75	17.1	3	3.5	193.0	1.25	0.05	23.1	0.232	1.39	6.0
ZZ34443		50.6	160.5	<0.002	0.37	1.76	14.1	2	4.3	274	1.36	<0.05	24.6	0.213	1.19	4.9
ZZ34444		61.7	141.5	<0.002	0.29	1.78	13.6	1	4.9	160.5	1.54	<0.05	22.4	0.187	1.91	5.8



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ34405		141	0.7	25.0	98	147.5
ZZ34406		185	0.5	24.4	118	145.0
ZZ34407		176	0.7	24.1	119	130.5
ZZ34408		214	0.7	27.2	112	165.0
ZZ34409		121	1.0	17.7	85	110.5
ZZ34410		95	1.1	12.8	66	72.1
ZZ34411		96	1.0	13.6	59	62.4
ZZ34412		104	1.0	10.4	50	55.5
ZZ34413		106	1.0	13.9	53	72.5
ZZ34414		93	1.1	17.3	74	118.5
ZZ34415		100	2.3	20.9	80	92.7
ZZ34416		82	1.0	15.1	65	70.9
ZZ34417		99	1.0	12.8	52	74.7
ZZ34418		109	1.3	10.9	64	66.2
ZZ34419		122	1.4	12.4	51	59.2
ZZ34420		114	1.2	12.7	57	69.8
ZZ34421		109	1.0	13.5	53	74.6
ZZ34422		105	1.1	14.3	57	65.6
ZZ34423		112	1.2	12.3	59	59.9
ZZ34424		108	1.1	36.0	57	61.8
ZZ34425		114	1.2	12.9	61	61.1
ZZ34426		110	1.1	18.6	60	71.0
ZZ34427		113	1.2	15.2	63	62.2
ZZ34428		115	1.3	14.5	58	75.4
ZZ34429		120	1.1	13.6	67	67.4
ZZ34430		163	1.2	12.2	86	79.6
ZZ34431		150	1.3	13.7	112	69.3
ZZ34432		145	1.7	10.1	117	82.5
ZZ34433		103	1.7	10.8	113	102.0
ZZ34434		108	1.8	23.0	158	132.0
ZZ34435		148	1.1	19.4	131	78.1
ZZ34436		113	1.2	23.0	119	114.5
ZZ34437		134	1.1	21.7	123	94.0
ZZ34438		121	1.0	17.7	125	76.0
ZZ34439		144	1.2	18.2	115	70.2
ZZ34440		118	1.0	21.1	111	85.4
ZZ34441		112	1.2	16.0	102	82.0
ZZ34442		45	1.6	29.2	121	157.0
ZZ34443		23	1.6	20.6	128	173.0
ZZ34444		10	2.5	16.8	102	191.0



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34445		0.22	0.002	0.43	9.09	4.5	3240	4.13	0.21	0.78	0.24	72.6	2.5	13	10.40	9.6
ZZ34446		0.16	0.001	0.31	7.95	19.7	1980	2.07	0.20	0.94	0.42	78.1	19.0	166	5.32	36.4
ZZ34447		0.14	<0.001	0.35	8.44	5.2	1910	2.20	0.21	1.38	0.38	59.4	9.0	34	4.66	19.8
ZZ34448		0.18	0.013	0.53	8.20	23.8	2530	2.70	0.23	0.61	0.23	137.5	14.2	128	8.10	40.4
ZZ34449		0.17	0.011	0.64	7.94	11.4	1580	1.97	0.23	1.36	0.39	71.2	6.5	73	5.39	39.7
ZZ34450		0.25	0.006	0.38	7.82	21.2	1880	1.94	0.23	1.00	0.53	75.1	7.2	96	6.42	40.2
ZZ34451		0.14	0.006	0.25	6.46	10.2	1400	1.91	0.14	1.57	0.22	74.0	23.1	307	3.57	39.1
ZZ34452		0.20	0.004	0.29	6.57	13.8	1440	2.00	0.15	1.31	0.20	68.9	21.0	272	4.38	32.1
ZZ34453		0.18	0.004	0.26	6.47	9.8	1340	1.84	0.13	1.66	0.16	67.2	19.4	263	3.62	34.5
ZZ34454		0.19	0.006	0.31	6.26	9.4	1360	2.01	0.15	2.06	0.35	63.8	20.9	322	4.44	46.8
ZZ34455		0.33	0.005	0.30	6.06	7.7	1390	1.84	0.11	2.02	0.38	64.8	22.7	333	4.33	40.1
ZZ34456		0.14	0.008	0.28	4.67	7.0	1080	1.44	0.09	2.57	0.60	51.4	14.8	211	3.57	37.5
ZZ34457		0.07	0.008	0.24	5.23	8.1	1130	1.55	0.11	2.07	0.58	52.3	16.5	211	3.77	33.7
ZZ34458		0.32	0.003	0.29	6.55	11.0	1540	1.73	0.15	1.79	0.36	66.5	19.0	246	4.73	33.9
ZZ34459		0.25	0.004	0.24	6.57	10.2	1560	1.56	0.16	1.78	0.28	68.2	18.2	259	4.41	32.9
ZZ34460		0.18	0.004	0.29	6.84	7.8	1410	1.49	0.14	2.07	0.25	54.6	16.1	252	3.44	28.3
ZZ34461		0.18	0.008	0.28	6.45	6.8	1600	1.56	0.15	1.63	0.42	62.6	11.3	159	3.79	25.3
ZZ34462		0.17	0.004	0.30	6.78	11.7	1580	1.90	0.15	1.56	0.45	69.0	18.4	253	5.82	40.3
ZZ34463		0.20	0.003	0.26	6.24	8.6	1630	1.61	0.16	1.53	0.41	80.8	15.2	177	3.57	27.6
ZZ34464		0.15	0.001	0.23	7.60	10.4	1880	2.14	0.16	0.91	0.19	86.8	8.3	76	5.97	16.1
ZZ34465		0.27	0.002	0.19	6.35	6.8	1710	1.38	0.16	1.45	0.21	68.8	7.2	62	3.36	14.8
ZZ34466		0.21	0.002	0.22	6.55	5.5	1570	1.55	0.14	1.72	0.26	71.0	9.6	107	2.96	17.9
ZZ34467		0.19	0.002	0.24	6.03	6.5	1590	1.52	0.16	1.73	0.35	68.5	7.5	64	2.77	20.5
ZZ34468		0.18	0.040	0.47	7.06	6.5	1450	1.53	0.17	1.93	0.29	62.0	12.2	116	2.95	22.0
ZZ34469		0.29	0.001	0.12	8.82	5.3	2200	2.88	0.20	1.19	0.23	80.2	5.8	34	5.15	18.3
ZZ34470		0.32	0.002	0.11	6.59	10.3	1200	1.30	0.16	1.39	0.11	56.5	7.9	72	2.67	16.9
ZZ34471		0.22	0.001	0.18	8.62	4.2	2200	2.83	0.19	0.76	0.25	78.9	4.7	27	5.44	11.2
ZZ34472		0.25	0.001	0.10	6.35	10.6	1110	1.19	0.18	1.14	0.12	53.3	9.1	76	2.48	20.3
ZZ34473		0.23	0.005	0.15	6.45	12.3	1180	1.33	0.16	1.40	0.07	59.1	10.3	82	2.32	25.7
ZZ34474		0.25	0.001	0.17	6.40	9.8	1010	1.09	0.20	1.34	0.09	48.5	7.7	87	2.51	11.2
ZZ34475		0.28	0.004	0.05	6.31	11.5	1090	1.29	0.14	1.30	0.09	66.1	12.1	78	2.00	23.8
ZZ34476		0.22	0.002	0.18	6.04	10.3	930	1.22	0.21	1.26	0.11	51.8	8.5	82	2.43	13.8
ZZ34477		0.24	0.002	0.12	6.25	11.0	1030	1.25	0.18	1.34	0.13	55.8	9.6	82	2.45	17.0
ZZ34478		0.22	0.004	0.08	6.21	12.3	1140	1.39	0.20	1.37	0.07	69.5	10.8	81	2.75	27.3
ZZ34479		0.29	0.004	0.10	6.19	9.7	1050	1.24	0.16	1.31	0.08	54.4	9.0	76	2.57	17.3
ZZ34480		0.33	0.005	0.06	5.79	7.8	1050	1.27	0.12	1.54	0.14	57.1	8.4	73	1.88	18.0
ZZ34481		0.29	0.013	0.09	5.95	8.7	1110	1.18	0.15	1.52	0.12	59.4	9.6	76	2.11	21.1
ZZ34482		0.20	0.014	0.45	8.31	29.6	2500	2.25	0.28	0.98	0.65	84.3	17.8	179	7.02	51.8
ZZ34483		0.26	0.010	0.47	7.51	25.3	2610	2.05	0.25	0.75	0.44	87.9	17.7	163	5.91	46.9
ZZ34484		0.10	0.007	0.35	7.74	11.7	2320	2.49	0.23	1.47	0.46	93.2	15.8	195	5.42	32.0



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR	0.01	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	
ZZ34445	3.35	29.3	0.32	4.4	0.116	3.56	52.6	31.3	1.32	209	1.75	1.07	17.2	5.6	450	
ZZ34446	4.15	20.3	0.21	3.0	0.078	2.52	35.4	30.5	1.86	761	2.14	1.04	11.5	100.5	470	
ZZ34447	2.81	23.0	0.19	4.1	0.067	2.35	28.9	33.3	1.01	1020	1.55	1.87	12.0	21.9	340	
ZZ34448	3.67	25.1	0.32	3.6	0.108	2.74	84.4	43.2	1.70	415	1.91	0.75	13.4	83.6	440	
ZZ34449	2.32	21.0	0.21	3.6	0.059	2.44	38.1	30.3	0.83	334	1.51	1.61	9.9	31.6	410	
ZZ34450	2.87	19.75	0.20	2.8	0.068	2.59	39.6	27.0	0.83	388	2.25	0.93	11.6	32.1	440	
ZZ34451	4.15	17.45	0.24	3.8	0.058	2.22	37.4	29.0	3.78	769	0.96	1.24	11.1	116.0	710	
ZZ34452	4.27	18.35	0.23	3.6	0.066	2.29	34.3	34.1	3.51	723	1.14	1.26	10.9	81.9	520	
ZZ34453	4.17	17.65	0.26	4.0	0.055	2.25	35.7	26.8	3.45	820	1.16	1.36	10.3	71.5	630	
ZZ34454	4.53	17.85	0.22	4.0	0.061	2.10	34.4	29.3	3.99	799	1.07	0.87	8.9	99.1	530	
ZZ34455	4.01	16.30	0.21	3.9	0.053	2.02	33.6	28.9	4.16	1020	1.09	0.98	9.7	127.5	720	
ZZ34456	3.04	12.60	0.20	2.8	0.045	1.48	29.1	22.3	2.59	543	0.87	0.93	7.7	72.8	850	
ZZ34457	3.26	14.15	0.21	2.9	0.051	1.71	26.8	23.9	2.68	641	0.84	1.11	8.7	66.8	800	
ZZ34458	4.01	16.55	0.16	2.9	0.058	2.06	33.8	29.1	3.00	802	1.07	1.39	9.9	78.0	910	
ZZ34459	4.11	15.90	0.15	3.1	0.049	2.14	35.1	28.6	3.20	777	1.04	1.42	10.1	83.4	780	
ZZ34460	4.26	15.80	0.14	2.6	0.050	2.23	27.4	26.4	3.28	797	0.65	1.34	9.4	62.3	780	
ZZ34461	3.41	16.05	0.18	2.8	0.059	1.86	33.2	24.1	2.01	546	0.86	1.37	9.9	45.8	640	
ZZ34462	4.38	18.15	0.17	3.7	0.054	2.54	37.9	31.9	3.44	685	1.04	1.24	10.3	80.1	800	
ZZ34463	3.65	16.50	0.19	3.3	0.055	1.72	41.3	26.3	2.08	742	1.04	1.48	11.1	48.1	730	
ZZ34464	3.35	20.0	0.18	2.6	0.060	2.73	44.1	28.6	1.20	373	0.94	1.26	11.8	25.1	490	
ZZ34465	2.75	15.20	0.17	2.7	0.048	1.84	36.6	22.0	0.97	490	1.04	1.37	10.6	19.0	800	
ZZ34466	2.94	16.00	0.17	2.5	0.046	1.91	35.7	23.2	1.45	464	0.70	1.39	10.7	31.3	760	
ZZ34467	2.66	14.45	0.17	2.2	0.043	1.67	36.5	20.8	0.86	528	0.66	1.35	9.8	22.2	820	
ZZ34468	3.42	16.35	0.15	2.6	0.053	1.75	33.4	23.6	1.61	658	0.76	1.50	10.4	31.9	780	
ZZ34469	3.61	24.9	0.16	3.4	0.089	3.37	35.3	25.4	1.56	380	0.51	1.33	14.5	12.2	400	
ZZ34470	3.15	14.60	0.14	2.1	0.049	1.60	29.9	20.5	0.88	412	0.94	1.67	10.7	20.7	470	
ZZ34471	3.11	22.8	0.16	3.1	0.085	3.66	32.6	25.0	1.66	298	0.49	1.30	13.4	7.7	490	
ZZ34472	3.09	13.70	0.14	1.9	0.045	1.39	27.5	25.7	0.84	359	0.99	1.49	11.0	26.8	240	
ZZ34473	3.39	13.55	0.13	1.9	0.045	1.35	30.2	22.0	0.90	376	0.88	1.57	9.6	29.3	580	
ZZ34474	3.16	15.05	0.13	1.7	0.037	1.35	25.4	22.2	0.86	334	1.18	1.56	11.4	20.0	430	
ZZ34475	3.40	13.40	0.16	1.7	0.046	1.28	32.0	20.4	0.85	517	0.90	1.63	8.7	26.6	370	
ZZ34476	3.19	14.85	0.12	1.9	0.041	1.27	26.3	23.0	0.80	317	1.17	1.47	11.4	21.2	410	
ZZ34477	3.29	14.35	0.14	1.9	0.045	1.33	28.0	22.5	0.88	377	1.07	1.51	10.5	24.2	570	
ZZ34478	3.34	14.25	0.16	1.9	0.044	1.39	36.3	24.5	0.91	491	0.98	1.49	10.6	28.5	720	
ZZ34479	3.10	14.25	0.13	1.8	0.046	1.33	28.0	21.4	0.84	363	0.98	1.48	10.4	22.5	480	
ZZ34480	2.87	12.60	0.14	1.7	0.034	1.38	29.6	17.7	0.80	466	0.77	1.61	10.1	22.6	510	
ZZ34481	2.93	13.25	0.14	1.8	0.039	1.33	29.7	19.9	0.82	433	0.86	1.59	9.8	23.7	750	
ZZ34482	4.30	22.4	0.20	3.4	0.075	3.22	42.4	32.1	2.12	754	2.06	0.57	10.7	100.5	750	
ZZ34483	4.11	19.60	0.20	3.0	0.067	2.96	44.8	29.3	1.97	727	2.01	0.63	11.0	96.6	800	
ZZ34484	3.99	21.8	0.17	4.4	0.073	3.06	45.5	34.6	2.74	552	1.59	1.13	12.0	87.6	600	



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Sample Description	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
	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	U	
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	
ZZ34445	40.4	130.5	0.002	0.30	1.45	12.1	2	4.2	238	1.37	0.07	20.2	0.227	1.23	5.0	
ZZ34446	27.5	124.5	<0.002	0.03	2.09	16.4	<1	2.6	157.5	0.81	0.05	12.6	0.391	0.87	2.7	
ZZ34447	24.4	79.0	<0.002	0.02	1.15	9.5	1	2.3	351	0.91	0.07	11.2	0.297	0.68	3.2	
ZZ34448	37.3	133.5	<0.002	0.03	3.13	17.6	3	3.4	104.0	0.96	0.05	20.1	0.302	1.05	5.2	
ZZ34449	29.9	115.0	<0.002	0.02	1.84	11.0	1	2.0	334	0.74	0.08	12.1	0.302	0.76	4.7	
ZZ34450	50.6	137.5	<0.002	0.03	2.43	13.5	<1	2.4	173.5	0.82	<0.05	11.0	0.365	0.88	4.5	
ZZ34451	30.0	99.1	<0.002	0.03	1.25	19.8	1	1.9	131.0	0.83	<0.05	12.1	0.389	0.64	2.9	
ZZ34452	32.8	99.3	<0.002	0.02	1.16	20.9	2	2.0	97.9	0.80	<0.05	11.6	0.386	0.74	3.0	
ZZ34453	29.4	104.5	<0.002	0.03	1.11	21.1	2	1.8	132.0	0.76	<0.05	11.6	0.387	0.68	3.8	
ZZ34454	35.6	98.8	<0.002	0.04	1.14	22.7	2	1.7	157.5	0.64	0.05	11.9	0.326	0.71	3.7	
ZZ34455	23.2	93.9	<0.002	0.07	1.20	19.5	<1	1.7	154.5	0.73	<0.05	11.4	0.344	0.63	3.2	
ZZ34456	16.7	73.8	<0.002	0.12	1.14	15.3	2	1.3	212	0.57	<0.05	8.5	0.280	0.49	3.6	
ZZ34457	21.8	81.6	0.002	0.08	1.08	16.7	4	1.4	169.0	0.64	<0.05	8.6	0.314	0.52	2.7	
ZZ34458	21.9	90.4	<0.002	0.04	1.53	18.9	4	1.6	176.5	0.73	<0.05	10.3	0.391	0.61	2.6	
ZZ34459	22.1	83.8	<0.002	0.06	1.36	18.6	3	1.7	155.5	0.76	0.09	11.1	0.415	0.60	2.8	
ZZ34460	19.4	84.2	<0.002	0.04	0.95	18.5	1	1.6	191.5	0.68	<0.05	8.6	0.420	0.60	2.4	
ZZ34461	16.4	87.4	<0.002	0.03	0.99	15.5	2	1.7	190.0	0.74	<0.05	9.4	0.364	0.59	2.8	
ZZ34462	31.6	104.5	<0.002	0.05	2.03	21.5	2	1.7	125.5	0.78	<0.05	10.9	0.398	0.74	2.8	
ZZ34463	18.0	77.9	<0.002	0.02	1.34	17.6	3	1.9	175.0	0.83	<0.05	11.4	0.396	0.54	3.4	
ZZ34464	27.8	113.0	<0.002	0.02	1.29	14.2	4	2.5	148.5	0.92	<0.05	12.5	0.326	0.75	3.0	
ZZ34465	16.2	75.7	0.002	0.04	1.00	11.5	3	1.7	208	0.78	<0.05	10.4	0.350	0.55	2.9	
ZZ34466	15.3	80.6	<0.002	0.02	1.07	13.7	1	1.8	224	0.82	0.05	10.2	0.376	0.56	2.9	
ZZ34467	14.1	70.6	<0.002	0.03	1.94	11.5	1	1.6	217	0.73	0.11	10.1	0.347	0.54	3.6	
ZZ34468	16.4	73.9	<0.002	0.02	1.48	14.4	2	1.7	262	0.78	<0.05	10.0	0.406	0.53	2.6	
ZZ34469	22.8	127.0	<0.002	0.01	1.62	16.6	4	3.1	166.5	1.13	0.08	13.5	0.318	0.85	3.6	
ZZ34470	14.3	71.5	<0.002	0.01	1.13	10.9	3	1.6	258	0.85	<0.05	8.5	0.386	0.49	2.2	
ZZ34471	22.1	121.5	<0.002	0.01	1.42	14.1	<1	3.0	151.0	1.06	<0.05	13.1	0.289	0.79	3.4	
ZZ34472	14.4	57.5	<0.002	0.01	1.73	9.7	2	1.7	224	0.84	<0.05	8.4	0.397	0.49	2.0	
ZZ34473	13.8	53.7	<0.002	0.01	3.08	11.7	<1	1.4	258	0.71	<0.05	8.6	0.391	0.45	2.2	
ZZ34474	14.0	54.4	<0.002	0.01	1.92	10.5	<1	1.7	220	0.92	<0.05	7.1	0.462	0.55	1.9	
ZZ34475	13.0	48.4	<0.002	0.01	1.34	13.4	4	1.3	275	0.67	<0.05	7.7	0.373	0.39	2.4	
ZZ34476	13.2	52.5	<0.002	0.01	1.33	10.4	1	1.7	214	0.87	0.07	7.3	0.415	0.50	2.0	
ZZ34477	13.7	54.5	<0.002	0.01	0.99	11.6	2	1.5	228	0.75	<0.05	8.6	0.403	0.50	2.3	
ZZ34478	14.3	60.0	<0.002	0.01	3.89	13.5	1	1.6	226	0.79	<0.05	10.0	0.388	0.51	3.3	
ZZ34479	14.3	58.0	<0.002	0.01	1.96	11.2	1	1.6	229	0.78	<0.05	7.9	0.390	0.49	2.0	
ZZ34480	11.1	54.0	<0.002	0.01	1.29	10.4	<1	1.3	267	0.77	<0.05	7.7	0.408	0.37	1.8	
ZZ34481	12.0	52.5	<0.002	0.01	1.41	12.1	<1	1.3	267	0.72	<0.05	7.9	0.387	0.43	2.2	
ZZ34482	46.0	147.0	<0.002	0.09	5.02	18.2	3	3.0	116.5	0.77	<0.05	16.1	0.318	0.98	4.0	
ZZ34483	38.2	128.5	<0.002	0.10	4.06	16.6	1	2.6	121.0	0.77	<0.05	15.0	0.351	0.87	3.6	
ZZ34484	35.0	109.0	<0.002	0.09	2.99	16.9	2	2.6	183.5	0.92	0.05	15.4	0.315	0.98	4.0	



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ34445		27	1.6	18.9	103	147.0
ZZ34446		155	1.5	14.3	173	101.0
ZZ34447		60	1.0	14.9	116	144.0
ZZ34448		112	1.3	35.7	123	118.0
ZZ34449		99	1.1	16.1	75	121.5
ZZ34450		156	1.3	14.4	71	92.8
ZZ34451		122	0.8	23.3	105	139.5
ZZ34452		131	0.8	23.5	112	123.0
ZZ34453		132	2.7	24.1	107	133.0
ZZ34454		131	0.8	23.6	126	136.0
ZZ34455		118	0.7	22.2	106	124.0
ZZ34456		91	0.6	19.2	80	97.9
ZZ34457		103	0.7	19.5	93	101.0
ZZ34458		125	0.9	19.6	105	113.5
ZZ34459		130	1.2	20.7	103	115.5
ZZ34460		137	0.8	18.4	110	98.7
ZZ34461		114	1.0	20.4	91	111.5
ZZ34462		132	0.9	27.4	121	135.0
ZZ34463		121	1.0	23.2	92	107.0
ZZ34464		88	1.2	18.8	94	84.9
ZZ34465		96	1.0	17.8	80	87.7
ZZ34466		105	0.9	19.4	84	87.9
ZZ34467		95	1.3	20.0	77	76.2
ZZ34468		117	1.0	18.9	82	90.4
ZZ34469		69	1.1	26.1	114	111.5
ZZ34470		108	1.0	14.5	66	77.1
ZZ34471		59	1.0	22.5	97	103.0
ZZ34472		120	1.7	11.3	61	65.0
ZZ34473		123	1.0	15.2	66	64.7
ZZ34474		135	1.6	11.6	60	63.2
ZZ34475		118	1.0	14.8	63	61.6
ZZ34476		127	1.2	11.3	58	65.8
ZZ34477		125	1.1	12.9	60	65.0
ZZ34478		126	1.2	21.5	66	64.6
ZZ34479		112	1.0	13.0	57	64.3
ZZ34480		107	0.8	16.5	57	58.4
ZZ34481		110	1.3	16.2	63	62.7
ZZ34482		153	1.5	16.6	155	110.5
ZZ34483		150	1.5	16.5	139	104.5
ZZ34484		97	1.1	25.8	125	150.5



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34485		0.26	0.013	0.47	8.12	31.1	2350	2.21	0.28	0.66	0.68	96.8	17.8	152	6.77	45.3
ZZ34486		0.30	0.004	0.25	7.65	13.2	2290	2.34	0.19	1.51	0.38	86.7	15.6	198	5.00	29.2
ZZ34487		0.22	0.005	0.56	8.12	20.0	2790	2.52	0.26	1.09	0.63	95.2	15.6	170	5.27	51.3
ZZ34488		0.24	0.011	0.35	7.78	19.6	2290	2.30	0.23	1.15	0.28	99.7	18.6	197	4.87	41.1
ZZ34489		0.14	0.014	0.64	7.20	22.9	1900	1.69	0.26	1.89	0.52	73.0	14.6	154	6.06	58.1
ZZ34490		0.21	0.029	0.70	7.87	30.4	2630	2.04	0.30	0.81	0.26	89.4	14.7	142	6.92	50.9
ZZ34491		0.29	0.023	0.46	7.90	34.4	2000	2.18	0.28	0.34	0.66	111.5	17.6	109	6.05	42.1
ZZ34492		0.18	0.009	0.18	7.28	22.3	1570	1.72	0.25	1.02	0.16	81.8	12.5	113	4.95	43.4
ZZ34493		0.21	0.014	0.42	7.51	20.3	1830	1.72	0.22	1.50	0.68	68.3	15.7	138	4.17	44.1
ZZ34494		0.31	0.014	0.42	7.03	14.6	1740	2.38	0.20	1.28	0.15	83.0	15.0	155	4.77	33.1
ZZ34495		0.35	0.015	0.48	6.73	13.0	1820	2.32	0.17	1.66	0.20	70.4	18.7	234	5.10	39.4
ZZ34496		0.18	0.002	0.30	6.31	11.3	1980	2.37	0.16	1.38	0.44	86.3	11.8	103	4.79	22.2
ZZ43042		0.26	0.010	0.12	5.67	9.7	1010	1.51	0.14	1.43	0.28	61.2	11.8	83	2.14	22.2
ZZ89221		0.20	0.032	1.06	5.53	14.8	1330	1.84	0.16	1.93	1.81	56.3	11.9	85	5.50	41.4
ZZ34086		0.13	0.003	0.09	5.80	13.4	940	1.61	0.19	1.22	0.11	55.3	12.6	76	2.58	15.9

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ34485		4.13	21.9	0.20	3.3	0.070	3.42	48.7	27.6	1.57	982	2.00	0.51	10.5	90.0	810
ZZ34486		4.04	21.2	0.18	3.8	0.073	2.87	43.3	30.8	2.79	548	1.88	1.14	12.2	75.1	550
ZZ34487		4.12	23.5	0.21	4.5	0.079	3.40	48.8	29.6	2.50	798	3.34	0.90	13.1	80.5	570
ZZ34488		4.32	21.7	0.22	3.8	0.077	2.92	50.3	32.6	2.97	671	1.75	1.03	12.0	112.5	700
ZZ34489		3.59	17.55	0.19	2.9	0.051	2.56	37.7	27.3	1.72	700	1.62	0.53	8.7	85.8	960
ZZ34490		3.86	21.1	0.18	3.5	0.071	3.30	45.4	30.8	1.65	535	1.90	0.47	10.6	80.4	800
ZZ34491		4.08	21.1	0.20	3.5	0.076	3.49	54.2	24.5	1.16	1150	2.49	0.49	9.4	70.8	810
ZZ34492		3.59	17.75	0.16	2.7	0.050	2.21	42.0	27.9	1.09	527	1.64	0.94	10.4	46.0	760
ZZ34493		3.56	18.60	0.15	2.9	0.054	2.28	36.1	26.7	1.65	4200	2.17	1.11	9.4	89.8	780
ZZ34494		3.01	20.9	0.21	3.4	0.076	2.14	39.4	29.6	1.86	401	1.17	0.95	11.1	97.4	540
ZZ34495		3.56	20.7	0.27	3.4	0.076	1.96	34.3	32.1	2.98	604	1.17	0.91	10.5	147.0	630
ZZ34496		2.95	18.80	0.30	3.5	0.079	2.08	38.0	27.2	1.71	710	1.37	1.13	13.0	66.6	560
ZZ43042		2.93	15.20	0.26	2.1	0.050	1.17	29.2	22.2	0.81	466	1.12	1.40	10.5	27.7	680
ZZ89221		2.71	15.10	0.30	2.4	0.051	1.41	26.9	31.2	0.66	663	6.99	0.92	9.9	45.4	1020
ZZ34086		3.09	15.90	0.28	2.2	0.046	1.24	26.0	26.7	0.77	355	1.27	1.30	12.0	28.8	480

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS WH13115623

Sample Description	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34485		36.1	150.5	<0.002	0.12	4.23	16.5	2	3.2	97.8	0.85	<0.05	17.8	0.296	0.97	4.3
ZZ34486		44.8	105.0	<0.002	0.07	2.86	17.1	3	2.6	191.5	0.93	<0.05	14.6	0.335	0.95	4.2
ZZ34487		149.0	126.5	<0.002	0.08	4.37	17.4	6	3.4	145.5	1.00	<0.05	17.9	0.322	1.09	3.7
ZZ34488		48.8	89.1	<0.002	0.08	2.61	18.1	3	2.7	135.0	0.96	<0.05	15.3	0.357	0.81	3.5
ZZ34489		41.8	121.0	<0.002	0.13	5.10	15.0	2	2.1	135.5	0.70	0.05	14.2	0.293	0.82	4.2
ZZ34490		52.2	148.0	<0.002	0.12	6.12	15.7	1	2.9	80.7	0.74	<0.05	17.2	0.299	0.99	4.1
ZZ34491		37.8	156.0	<0.002	0.11	4.57	14.6	4	3.0	89.5	0.72	<0.05	20.2	0.225	1.10	5.1
ZZ34492		28.9	103.0	<0.002	0.01	2.82	14.7	2	2.1	172.0	0.75	<0.05	12.8	0.370	0.67	3.5
ZZ34493		28.9	103.0	<0.002	0.02	2.61	15.3	<1	2.2	202	0.67	<0.05	11.5	0.345	0.68	3.5
ZZ34494		30.7	101.5	<0.002	0.02	2.37	17.1	2	2.7	163.0	0.76	<0.05	13.1	0.322	0.77	3.3
ZZ34495		24.7	88.6	<0.002	0.04	1.92	20.1	1	2.4	132.5	0.71	<0.05	12.1	0.326	0.69	3.8
ZZ34496		24.1	87.7	<0.002	0.05	1.67	14.8	1	2.3	137.5	0.90	<0.05	13.5	0.303	0.66	2.9
ZZ43042		12.5	49.3	<0.002	0.01	1.14	13.3	1	1.5	229	0.71	0.06	7.6	0.405	0.46	2.1
ZZ89221		14.4	73.5	0.003	0.05	4.55	14.4	4	1.6	228	0.69	0.05	7.7	0.360	0.96	2.7
ZZ34086		15.3	53.9	<0.002	0.01	1.25	11.7	1	1.8	191.0	0.93	0.05	8.3	0.405	0.50	2.1



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CERTIFICATE OF ANALYSIS WH13115623

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ34485		128	1.5	15.5	164	106.0
ZZ34486		103	1.2	24.3	118	132.5
ZZ34487		124	1.7	27.6	179	146.5
ZZ34488		115	1.4	27.4	142	127.0
ZZ34489		127	1.1	15.4	123	97.9
ZZ34490		139	1.5	15.3	136	114.5
ZZ34491		105	1.3	16.2	163	104.5
ZZ34492		141	1.2	18.6	95	93.4
ZZ34493		127	1.3	18.7	118	97.9
ZZ34494		112	1.4	18.4	91	112.5
ZZ34495		123	1.2	20.9	103	113.0
ZZ34496		75	1.3	21.1	95	131.0
ZZ43042		113	2.7	15.6	64	69.5
ZZ89221		126	1.2	16.8	127	83.3
ZZ34086		121	1.6	12.4	61	71.5

***** See Appendix Page for comments regarding this certificate *****



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Project: Magnum
 P.O. No.:
 This report is for 218 Soil samples submitted to our lab in Whitehorse, YT, Canada on 25-JUN-2013.
 The following have access to data associated with this certificate:
 HEATHER BURRELL SARAH DRECHSLER JOAN MARIACHER

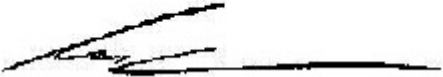
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish ICP-AES

To: STRATEGIC METALS LTD.
 ATTN: JOAN MARIACHER
 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.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC89496		0.23	0.002	0.24	6.38	9.0	1000	1.18	0.22	1.35	0.17	54.8	8.3	77	2.64	24.3
CC89497		0.31	0.004	0.09	5.82	10.2	960	1.12	0.17	1.10	0.13	62.8	8.6	73	2.36	21.8
CC89498		0.22	0.016	0.15	5.89	9.6	1020	1.28	0.18	0.98	0.10	60.4	6.9	75	2.64	19.5
ZZ34001		0.21	0.014	0.80	9.26	26.1	3590	2.83	0.36	0.27	0.20	104.5	7.4	115	7.64	37.3
ZZ34002		0.17	0.010	0.45	8.24	22.7	2020	2.62	0.37	0.62	0.14	74.2	9.2	151	8.71	23.7
ZZ34003		0.21	0.013	0.47	8.11	14.5	2210	2.33	0.30	0.68	0.23	89.0	6.9	102	7.13	31.3
ZZ34004		0.15	0.008	0.38	6.60	13.1	1820	1.93	0.24	1.37	0.22	76.1	6.1	84	5.89	29.7
ZZ34005		0.24	0.028	0.77	8.04	28.3	2030	2.54	0.33	0.48	0.22	109.0	7.3	116	7.62	24.2
ZZ34006		0.11	0.011	0.56	6.75	20.0	1700	1.91	0.28	1.77	0.31	75.6	7.0	107	5.75	37.5
ZZ34007		0.23	0.003	0.51	8.25	8.7	2970	2.59	0.58	0.28	0.07	96.1	2.1	88	5.97	21.4
ZZ34008		0.18	0.007	0.21	7.32	12.3	1470	2.08	0.25	0.63	0.08	80.6	7.2	95	7.51	37.4
ZZ34009		0.17	0.003	0.34	9.67	24.5	2400	1.93	0.21	0.09	0.04	48.1	2.4	188	11.60	45.9
ZZ34010		0.22	0.010	0.35	6.70	13.3	1610	1.61	0.20	1.22	0.24	61.8	9.4	95	4.32	27.6
ZZ34011		0.37	0.010	0.53	8.09	19.8	2240	2.03	0.26	0.68	0.33	82.9	15.6	163	5.46	49.4
ZZ34012		0.23	0.022	0.77	8.05	27.3	2000	2.21	0.26	0.47	0.36	89.3	10.2	115	6.44	35.8
ZZ34013		0.29	0.017	0.91	9.12	40.5	2000	2.62	0.28	0.61	0.32	101.5	12.0	101	6.57	30.8
ZZ34014		0.17	0.005	0.40	9.43	46.3	1020	2.43	0.28	0.37	0.28	102.5	45.9	271	5.30	93.1
ZZ34015		0.25	0.005	0.61	6.77	43.1	1260	1.30	0.30	0.89	0.14	47.5	12.4	78	3.79	13.8
ZZ34016		0.21	0.034	0.75	10.25	41.6	3170	3.03	0.61	0.28	0.06	95.0	2.3	45	4.34	7.1
ZZ34017		0.15	0.003	0.50	6.31	9.8	1110	1.13	0.20	1.27	0.25	48.0	6.6	69	2.49	12.1
ZZ34018		0.23	0.007	0.42	8.10	58.4	2210	2.00	0.27	0.62	0.10	68.1	4.8	63	3.63	16.9
ZZ34019		0.24	0.006	0.34	6.74	8.3	1080	1.22	0.19	1.39	0.34	49.0	14.9	71	2.49	19.8
ZZ34020		0.10	0.002	0.57	6.71	4.5	1200	1.23	0.19	1.43	0.34	48.2	7.2	57	3.42	37.6
ZZ34021		0.23	0.003	0.21	6.56	13.2	1030	1.43	0.18	1.26	0.15	49.2	11.0	86	2.75	17.5
ZZ34022		0.25	0.004	0.06	6.24	8.3	1060	1.35	0.16	1.13	0.09	61.6	8.9	73	2.49	23.4
ZZ34023		0.24	0.004	0.05	6.03	10.2	900	1.10	0.14	1.25	0.09	48.5	8.9	70	1.94	18.7
ZZ34024		0.30	0.011	0.08	6.19	9.9	960	1.29	0.16	1.32	0.10	51.2	9.4	80	2.28	17.3
ZZ34025		0.16	0.004	0.06	6.40	8.6	1110	1.36	0.15	1.32	0.13	55.9	9.4	78	2.30	21.9
ZZ34026		0.29	0.004	0.11	6.28	7.8	1020	1.16	0.15	1.49	0.17	53.4	10.8	78	2.07	17.0
ZZ34027		0.26	0.015	0.16	5.75	8.0	930	1.27	0.17	1.53	0.20	58.9	10.7	85	2.30	19.9
ZZ34028		0.24	0.004	0.24	7.71	11.7	2330	3.22	0.21	1.42	0.45	117.0	11.3	157	8.07	24.7
ZZ34029		0.22	0.008	0.42	7.68	11.9	2590	2.75	0.24	1.30	0.72	143.5	8.7	105	8.56	34.2
ZZ34030		0.22	0.005	0.39	8.28	9.5	2800	3.22	0.23	0.70	0.18	113.0	8.8	106	6.78	15.9
ZZ34031		0.28	0.004	0.20	6.40	10.4	1610	1.74	0.16	1.73	0.19	81.9	11.9	116	3.23	26.5
ZZ34032		0.10	0.003	0.36	7.75	4.2	1710	2.01	0.21	1.56	0.61	75.2	8.5	37	4.79	17.9
ZZ34033		0.10	0.001	0.39	6.32	9.5	1200	1.71	0.22	1.33	0.54	83.1	9.2	62	3.41	16.6
ZZ34034		0.17	0.005	0.45	7.53	7.6	1470	1.65	0.21	1.77	1.14	73.3	10.3	55	3.89	33.9
ZZ34035		0.14	0.002	0.17	7.59	7.2	2460	2.56	0.22	1.14	0.33	112.0	16.7	234	5.92	23.5
ZZ34036		0.11	<0.001	0.51	7.95	3.9	1770	2.00	0.19	1.73	0.42	55.3	9.0	26	4.05	17.5
ZZ34037		0.11	0.001	0.34	8.45	3.5	3070	3.08	0.29	1.27	0.41	92.8	6.4	26	5.57	9.7



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CERTIFICATE OF ANALYSIS WH13115622

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	
CC89496		2.97	16.00	0.12	2.1	0.051	1.29	25.8	22.1	0.75	321	1.42	1.50	11.1	23.6	560
CC89497		2.93	13.90	0.20	1.9	0.053	1.25	30.2	22.2	0.64	312	1.27	1.31	11.6	23.7	420
CC89498		2.63	14.35	0.18	2.1	0.054	1.44	28.9	20.2	0.62	277	1.26	1.20	11.4	19.8	430
ZZ34001		3.54	25.9	0.11	4.1	0.092	3.88	53.8	28.5	1.01	208	3.38	0.69	14.0	40.6	550
ZZ34002		2.82	26.0	0.11	3.9	0.075	3.54	37.3	33.3	1.36	302	2.96	0.57	13.4	57.7	420
ZZ34003		2.89	21.7	0.12	3.7	0.069	3.03	45.6	27.4	1.04	257	2.50	0.59	12.5	35.2	520
ZZ34004		2.48	17.40	0.10	3.4	0.059	2.45	39.4	22.4	0.90	263	2.16	0.51	11.0	31.8	530
ZZ34005		2.71	24.3	0.14	3.7	0.079	3.76	55.9	30.1	0.98	219	2.07	0.38	13.2	38.4	500
ZZ34006		2.66	17.05	0.10	3.1	0.056	2.35	39.1	21.9	1.10	260	2.07	0.40	9.9	46.6	790
ZZ34007		2.06	23.3	0.11	4.7	0.099	3.68	50.6	21.7	0.54	113	2.66	0.19	13.6	10.9	400
ZZ34008		2.97	19.85	0.10	3.3	0.061	2.62	40.6	26.8	0.70	206	3.07	0.65	11.3	28.3	510
ZZ34009		2.24	21.7	0.07	2.0	0.056	2.22	25.6	31.9	0.44	48	1.91	0.07	8.2	16.0	380
ZZ34010		3.12	16.05	0.10	2.8	0.047	1.76	32.4	23.1	0.95	415	2.31	1.12	10.0	32.0	630
ZZ34011		3.67	20.5	0.11	3.5	0.072	2.73	41.4	29.2	1.70	449	2.50	0.68	11.0	86.6	670
ZZ34012		3.23	21.5	0.10	3.4	0.068	2.96	45.4	26.0	1.07	347	2.15	0.52	11.2	47.1	680
ZZ34013		3.92	24.6	0.15	3.8	0.080	3.69	50.6	26.0	0.90	529	1.64	0.61	10.7	40.5	840
ZZ34014		6.54	23.4	0.13	2.2	0.075	2.89	52.5	36.9	2.97	1560	1.18	0.62	7.9	182.0	850
ZZ34015		3.66	17.45	0.05	2.9	0.050	1.85	24.7	21.4	0.73	643	2.93	1.22	12.9	17.6	400
ZZ34016		2.15	29.3	0.11	5.5	0.115	4.69	47.3	15.7	0.64	135	1.49	0.65	16.9	8.1	240
ZZ34017		2.67	15.90	0.06	2.2	0.039	1.51	24.8	19.3	0.68	344	1.45	1.61	11.0	15.1	260
ZZ34018		2.99	21.6	0.08	3.4	0.081	2.09	34.5	19.4	0.59	208	2.56	1.72	14.0	15.8	420
ZZ34019		3.16	15.10	<0.05	2.1	0.037	1.43	24.2	21.5	0.76	1540	1.34	1.63	10.0	22.6	530
ZZ34020		2.52	16.60	0.06	2.6	0.030	1.55	28.9	18.8	0.60	523	1.23	1.75	8.5	24.0	480
ZZ34021		3.77	14.85	<0.05	1.8	0.039	1.24	25.7	23.5	0.87	390	1.19	1.40	10.1	29.8	590
ZZ34022		2.97	13.65	0.05	2.3	0.039	1.34	31.4	20.2	0.72	324	0.84	1.37	11.0	24.1	290
ZZ34023		3.00	12.75	0.05	1.8	0.030	1.22	25.4	18.8	0.73	339	0.86	1.48	9.2	21.9	590
ZZ34024		3.19	13.90	0.05	2.0	0.034	1.25	26.3	19.7	0.78	366	1.01	1.46	10.8	22.6	550
ZZ34025		3.04	14.20	0.06	2.4	0.033	1.35	29.0	20.4	0.79	397	1.02	1.52	12.5	25.0	390
ZZ34026		3.04	13.55	0.05	1.9	0.039	1.25	27.2	18.8	0.79	485	1.02	1.54	10.6	21.7	570
ZZ34027		2.80	14.15	0.06	2.1	0.042	1.21	29.5	19.7	0.76	436	0.97	1.39	11.0	24.5	680
ZZ34028		3.37	24.2	0.12	5.0	0.095	3.15	61.1	33.7	2.13	392	1.44	0.94	13.7	60.4	420
ZZ34029		3.14	22.4	0.27	4.4	0.094	2.98	76.1	32.7	1.79	401	1.34	0.97	13.8	46.2	570
ZZ34030		3.55	25.8	0.20	5.6	0.114	3.66	47.7	40.8	2.09	338	1.52	1.07	16.6	49.2	370
ZZ34031		3.16	15.85	0.20	2.8	0.059	2.00	40.8	23.9	1.68	511	1.14	1.37	11.1	51.7	710
ZZ34032		2.76	21.3	0.18	4.2	0.072	2.65	32.2	29.3	0.97	591	1.62	1.60	12.3	13.8	470
ZZ34033		2.81	16.75	0.19	3.8	0.066	2.23	38.9	22.1	0.83	622	1.26	1.20	11.1	24.2	550
ZZ34034		2.83	19.00	0.18	3.7	0.058	2.34	47.7	28.1	0.96	1100	2.05	1.83	9.0	29.0	470
ZZ34035		4.16	21.9	0.24	4.2	0.081	2.92	45.8	34.2	3.19	597	1.58	1.21	13.4	76.3	660
ZZ34036		2.88	20.7	0.15	4.1	0.058	2.65	29.2	31.8	0.99	729	1.58	1.90	10.9	10.5	540
ZZ34037		2.77	25.3	0.18	5.2	0.092	2.79	38.2	30.9	1.24	539	1.10	1.62	16.3	9.3	540

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS WH13115622

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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
CC89496		14.5	60.4	0.003	0.01	1.33	11.4	1	1.7	252	0.76	<0.05	7.1	0.420	0.50	2.1
CC89497		13.2	58.9	0.004	0.01	1.36	10.5	1	1.7	208	0.75	<0.05	7.4	0.399	0.42	1.8
CC89498		13.7	72.0	0.003	0.01	1.64	9.8	1	2.1	183.5	0.76	<0.05	8.0	0.396	0.48	2.0
ZZ34001		46.5	188.5	<0.002	0.14	4.63	15.1	3	4.1	69.1	0.96	0.08	20.5	0.299	1.38	4.1
ZZ34002		42.4	160.0	<0.002	0.04	4.01	15.5	2	3.6	118.0	0.94	0.07	14.0	0.347	1.19	3.1
ZZ34003		38.7	145.0	<0.002	0.08	3.37	13.9	3	3.1	121.5	0.89	0.05	16.6	0.326	1.03	4.0
ZZ34004		30.0	115.0	<0.002	0.11	3.14	11.6	2	2.5	137.0	0.77	0.08	14.7	0.288	0.80	3.5
ZZ34005		45.2	175.5	<0.002	0.10	4.14	15.0	1	3.7	100.5	0.93	0.08	20.3	0.321	1.20	3.9
ZZ34006		33.3	116.5	0.002	0.18	3.61	12.6	3	2.4	163.0	0.73	0.10	15.2	0.271	0.78	8.4
ZZ34007		51.7	164.0	0.002	0.11	2.96	13.3	3	8.1	76.3	1.04	0.10	21.5	0.279	1.12	5.2
ZZ34008		25.7	127.0	<0.002	0.03	2.83	13.4	2	2.4	156.5	0.78	0.08	13.0	0.365	0.85	3.6
ZZ34009		45.2	108.0	<0.002	0.01	6.96	19.4	2	1.8	109.5	0.53	0.10	7.8	0.602	0.70	3.1
ZZ34010		28.3	87.0	0.002	0.02	1.87	12.9	2	1.8	204	0.74	0.07	9.2	0.372	0.63	3.0
ZZ34011		46.5	117.5	<0.002	0.04	3.34	16.7	2	2.8	129.0	0.82	0.09	15.5	0.348	0.94	4.2
ZZ34012		46.3	146.5	<0.002	0.06	4.02	14.7	1	3.2	95.2	0.79	0.07	17.2	0.318	1.19	4.0
ZZ34013		44.9	183.5	<0.002	0.07	4.87	15.4	2	3.4	85.1	0.72	0.07	22.2	0.267	1.33	4.0
ZZ34014		32.7	132.0	<0.002	0.03	3.07	23.0	2	2.7	50.5	0.55	0.08	18.2	0.373	0.83	3.3
ZZ34015		20.8	110.0	<0.002	0.02	3.05	10.7	1	2.4	169.0	0.98	0.06	9.1	0.393	0.82	2.2
ZZ34016		36.1	251	<0.002	0.06	6.27	12.4	2	8.0	61.4	1.10	0.06	18.3	0.275	1.82	2.8
ZZ34017		12.6	73.8	<0.002	0.01	1.12	9.3	1	1.8	254	0.79	0.07	6.5	0.446	0.60	1.9
ZZ34018		24.9	111.0	<0.002	0.07	2.89	12.4	1	3.3	123.0	1.01	0.12	12.7	0.289	0.88	2.8
ZZ34019		13.9	64.1	<0.002	0.02	1.14	9.5	2	1.6	265	0.74	0.07	6.7	0.405	0.52	2.0
ZZ34020		13.8	62.2	<0.002	0.01	0.88	8.9	1	1.3	317	0.60	0.06	6.2	0.363	0.59	2.9
ZZ34021		13.7	56.1	<0.002	0.01	1.29	12.4	2	1.6	206	0.74	0.06	7.9	0.401	0.53	2.1
ZZ34022		12.6	58.2	<0.002	0.01	1.14	11.0	1	1.6	213	0.78	<0.05	8.7	0.426	0.48	2.1
ZZ34023		11.4	48.8	<0.002	0.01	1.11	9.5	1	1.3	240	0.66	0.06	7.2	0.371	0.39	1.7
ZZ34024		12.2	52.8	<0.002	0.01	0.97	10.7	2	1.4	231	0.74	0.06	7.7	0.420	0.45	2.1
ZZ34025		11.9	57.0	<0.002	0.01	1.21	11.5	1	1.6	239	1.44	0.05	7.6	0.445	0.44	2.1
ZZ34026		11.5	50.7	<0.002	0.01	0.99	10.9	1	1.4	250	0.76	0.06	7.7	0.447	0.43	2.0
ZZ34027		12.3	53.5	<0.002	0.01	1.06	12.0	1	1.4	228	0.80	0.06	7.8	0.439	0.43	2.3
ZZ34028		33.9	120.0	0.003	0.07	1.99	16.9	2	3.3	143.5	1.01	<0.05	19.9	0.290	1.05	5.5
ZZ34029		37.1	129.5	<0.002	0.06	2.14	16.0	4	3.0	144.0	1.02	<0.05	21.4	0.242	0.94	4.7
ZZ34030		35.6	129.5	<0.002	0.11	1.92	16.4	2	3.6	129.5	1.25	<0.05	22.6	0.265	1.06	4.9
ZZ34031		18.7	84.5	<0.002	0.04	1.38	13.9	3	1.8	245	0.85	<0.05	12.6	0.341	0.54	2.8
ZZ34032		29.1	97.5	0.002	0.03	1.06	11.3	2	2.3	303	0.95	0.05	12.0	0.315	0.63	3.5
ZZ34033		30.0	99.5	<0.002	0.04	1.30	12.5	1	1.9	202	0.79	<0.05	12.7	0.322	0.56	3.0
ZZ34034		24.0	88.2	<0.002	0.02	1.14	10.0	2	1.7	381	0.68	<0.05	10.4	0.307	0.53	3.7
ZZ34035		32.1	98.5	<0.002	0.09	1.64	18.5	1	2.5	145.5	1.01	<0.05	16.1	0.344	1.02	4.6
ZZ34036		24.5	82.6	<0.002	0.06	0.94	8.8	<1	1.9	390	0.81	<0.05	11.5	0.301	0.67	3.7
ZZ34037		28.0	94.9	<0.002	0.03	0.96	12.2	3	3.2	291	1.26	<0.05	16.5	0.301	0.69	4.8



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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
CC89496		120	1.5	13.4	59	72.1
CC89497		109	1.5	14.3	55	66.2
CC89498		110	1.2	12.2	54	68.5
ZZ34001		170	2.0	14.2	117	134.0
ZZ34002		171	1.7	12.8	89	121.0
ZZ34003		136	1.5	14.4	84	120.5
ZZ34004		106	1.3	15.4	81	130.5
ZZ34005		129	1.8	13.3	107	122.0
ZZ34006		113	1.3	18.2	81	103.5
ZZ34007		125	2.3	16.7	61	149.5
ZZ34008		167	1.5	13.0	104	113.0
ZZ34009		238	1.6	8.8	36	75.6
ZZ34010		149	1.3	14.1	77	81.3
ZZ34011		147	1.6	19.2	140	112.0
ZZ34012		128	1.8	14.9	123	107.0
ZZ34013		115	1.5	16.4	143	124.5
ZZ34014		148	1.0	21.3	215	67.8
ZZ34015		141	1.6	12.0	65	84.7
ZZ34016		79	2.2	12.1	92	171.5
ZZ34017		128	1.5	10.2	51	77.0
ZZ34018		126	1.4	12.9	66	99.1
ZZ34019		117	1.0	11.9	111	76.1
ZZ34020		184	0.9	18.2	106	97.4
ZZ34021		136	1.3	15.7	67	61.6
ZZ34022		118	1.2	16.1	59	70.6
ZZ34023		108	0.9	11.8	54	58.9
ZZ34024		123	1.1	14.0	58	69.9
ZZ34025		128	1.2	16.2	62	71.4
ZZ34026		121	1.1	14.0	60	65.3
ZZ34027		120	1.1	15.4	62	79.8
ZZ34028		84	1.3	33.7	114	174.0
ZZ34029		62	1.3	40.9	118	149.0
ZZ34030		56	1.7	30.0	114	182.5
ZZ34031		95	1.5	25.6	79	92.3
ZZ34032		61	1.3	17.1	128	152.0
ZZ34033		85	1.2	17.1	120	129.0
ZZ34034		72	1.0	25.2	181	132.5
ZZ34035		97	1.3	28.5	115	150.5
ZZ34036		52	1.1	13.5	124	147.0
ZZ34037		52	1.6	25.7	128	186.0

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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34038		0.20	0.005	0.36	7.90	23.9	1680	2.25	0.28	1.11	0.11	75.0	20.5	182	5.91	41.2
ZZ34039		0.17	0.006	0.77	8.18	30.8	1520	1.71	0.24	1.26	0.37	87.9	11.8	81	4.57	27.0
ZZ34040		0.21	0.005	0.09	6.63	11.0	1200	1.34	0.20	0.94	0.08	68.8	7.5	80	4.00	23.6
ZZ34041		0.23	0.018	0.48	7.23	15.2	1880	1.77	0.26	0.93	0.24	90.0	6.1	93	4.95	22.4
ZZ34043		0.25	0.003	0.10	6.02	10.2	1000	1.10	0.16	1.35	0.13	59.9	9.3	75	2.21	18.0
ZZ34044		0.25	0.005	0.07	5.99	8.8	1050	1.27	0.15	1.31	0.12	66.0	8.7	75	2.11	20.3
ZZ34045		0.26	0.004	0.08	6.19	7.8	1080	1.23	0.13	1.39	0.11	75.9	8.0	79	2.03	23.6
ZZ34046		0.27	0.004	0.08	6.06	11.1	1240	1.40	0.17	1.13	0.11	80.9	8.4	73	2.66	31.3
ZZ34047		0.23	0.003	0.19	6.64	9.3	1630	1.58	0.21	0.86	0.13	86.5	6.9	72	3.90	30.7
ZZ34048		0.27	0.001	0.29	7.28	6.6	2310	2.00	0.24	0.39	0.04	76.8	3.0	46	3.36	22.6
ZZ34049		0.22	0.001	0.53	7.74	6.4	1000	1.38	0.18	1.84	0.11	46.5	5.9	24	1.98	23.1
ZZ34050		0.17	0.007	0.35	8.57	25.7	2660	2.46	0.57	0.23	0.04	112.0	2.3	53	5.07	20.3
ZZ34051		0.19	0.004	0.14	6.33	12.1	1080	1.31	0.22	1.17	0.08	60.0	9.2	79	2.64	17.3
ZZ34052		0.29	0.002	0.11	7.58	4.7	2920	2.44	0.13	0.52	0.18	153.5	2.2	20	5.32	6.8
ZZ34053		0.23	0.016	0.07	6.26	10.3	1110	1.22	0.14	1.44	0.07	60.5	9.3	68	2.07	22.2
ZZ34054		0.29	0.004	0.10	6.01	10.5	960	1.06	0.16	1.33	0.14	54.4	8.1	71	2.07	16.7
ZZ34055		0.29	0.002	0.08	6.20	8.7	1040	1.12	0.14	1.37	0.11	54.3	9.2	71	2.03	16.9
ZZ34056		0.13	0.003	0.28	8.53	9.6	3080	3.30	0.25	0.94	0.35	144.5	5.1	54	9.72	13.1
ZZ34057		0.23	0.003	0.29	8.26	11.9	2360	2.75	0.28	1.23	0.43	119.5	5.2	37	9.77	20.4
ZZ34058		0.13	0.010	0.34	7.84	19.7	2380	2.29	0.35	1.41	0.78	81.0	12.3	111	7.13	44.6
ZZ34059		0.22	0.006	0.51	8.51	19.9	3210	3.02	0.29	1.13	0.63	98.1	5.3	41	9.31	29.3
ZZ34060		0.29	0.010	0.41	7.38	20.9	2400	1.80	0.26	0.76	0.33	110.0	13.2	138	5.16	39.6
ZZ34061		0.11	0.008	0.55	7.70	24.5	2620	2.20	0.28	0.79	0.41	99.1	15.4	156	6.53	42.9
ZZ34062		0.13	0.005	0.50	8.12	18.0	2890	2.30	0.30	1.67	1.04	80.1	12.9	139	5.29	71.6
ZZ34063		0.18	0.009	0.65	8.46	20.4	3450	2.47	0.25	0.62	0.47	86.4	5.4	76	5.35	38.0
ZZ34064		0.14	0.006	0.37	8.39	19.2	3290	2.64	0.32	0.82	0.26	99.3	11.9	117	6.00	36.1
ZZ34065		0.15	0.003	0.38	8.39	26.4	2720	2.13	0.35	1.03	0.50	98.5	10.3	173	5.66	37.3
ZZ34066		0.27	0.005	0.40	8.11	21.7	2380	2.62	0.51	1.18	0.43	89.4	12.6	134	6.35	53.7
ZZ34067		0.18	0.004	0.40	7.94	19.1	2560	2.73	0.38	0.97	0.43	92.1	15.5	163	5.69	46.0
ZZ34068		0.22	0.001	0.34	8.14	13.4	2220	1.97	0.31	1.44	0.26	65.9	15.3	189	4.78	45.2
ZZ34069		0.22	0.005	0.74	7.30	24.1	2510	2.11	0.45	0.89	0.78	65.5	14.7	122	5.27	53.6
ZZ34070		0.16	0.001	0.28	7.55	15.1	1950	1.91	0.31	1.77	0.47	84.8	18.1	119	4.40	35.1
ZZ34071		0.11	0.002	0.42	6.89	5.1	1280	1.66	0.20	1.68	0.70	78.8	15.2	68	3.90	22.3
ZZ34072		0.26	0.004	0.57	8.49	52.2	2540	2.67	1.00	0.35	0.15	95.8	8.2	98	6.61	40.8
ZZ34073		0.32	0.002	0.22	7.50	17.7	1610	2.44	0.43	0.36	0.11	94.3	6.1	91	7.34	24.4
ZZ34074		0.23	0.003	0.58	8.48	32.7	2950	2.73	0.42	0.66	0.39	93.0	13.0	86	8.13	42.3
ZZ34075		0.19	0.002	0.10	6.34	8.6	1080	1.73	0.16	1.14	0.08	65.1	9.0	79	3.38	20.8
ZZ34076		0.14	0.003	0.20	9.57	10.5	1180	2.97	0.35	0.11	0.13	119.5	8.3	110	10.95	49.3
ZZ34077		0.23	0.005	0.09	5.82	11.0	930	1.20	0.15	1.32	0.12	61.8	10.1	79	2.49	20.9
ZZ34078		0.31	0.007	0.07	5.96	10.6	930	1.33	0.19	1.14	0.12	59.4	8.9	80	3.29	25.1



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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	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
ZZ34038		4.53	21.2	0.20	3.5	0.086	2.86	33.9	34.8	2.68	639	1.41	0.62	10.4	133.5	410
ZZ34039		3.39	21.3	0.18	2.7	0.064	2.51	41.2	28.4	0.95	738	1.60	1.27	10.6	36.1	460
ZZ34040		2.83	15.45	0.15	2.4	0.048	1.75	34.3	25.6	0.73	308	1.50	1.07	11.2	22.6	350
ZZ34041		2.42	18.55	0.17	3.0	0.056	2.52	42.7	26.4	0.99	241	1.54	0.75	11.6	32.0	540
ZZ34043		3.04	13.75	0.14	1.9	0.043	1.24	28.6	21.7	0.80	380	1.14	1.49	10.6	24.0	610
ZZ34044		2.85	13.35	0.14	2.0	0.035	1.32	32.2	20.3	0.72	410	1.02	1.55	11.4	21.9	450
ZZ34045		2.94	13.30	0.18	2.1	0.035	1.30	36.5	18.8	0.72	408	1.03	1.65	11.7	23.0	500
ZZ34046		2.82	14.35	0.17	2.3	0.040	1.42	38.2	24.6	0.76	352	1.24	1.34	11.5	26.4	510
ZZ34047		2.60	16.85	0.19	2.7	0.059	2.09	43.1	24.8	0.74	271	1.54	1.03	12.3	23.0	610
ZZ34048		1.98	18.85	0.17	4.1	0.054	2.86	38.3	20.4	0.53	145	1.61	0.50	13.3	15.3	310
ZZ34049		2.41	18.40	0.13	3.2	0.026	1.94	21.1	23.8	0.56	417	1.73	2.65	7.8	8.2	540
ZZ34050		2.14	23.5	0.19	4.4	0.092	4.27	53.4	26.4	0.79	140	1.35	0.33	15.9	10.5	320
ZZ34051		3.31	13.85	0.14	2.1	0.046	1.33	28.3	24.5	0.81	354	1.27	1.41	11.4	23.6	490
ZZ34052		2.40	20.0	0.27	4.2	0.075	3.14	83.8	20.8	0.76	209	0.86	2.04	14.5	7.7	270
ZZ34053		3.03	12.70	0.16	1.8	0.038	1.33	28.6	20.4	0.84	374	0.78	1.70	9.5	23.7	600
ZZ34054		3.03	13.05	0.14	1.9	0.040	1.25	25.6	21.2	0.79	332	1.03	1.48	10.0	22.2	630
ZZ34055		3.00	12.90	0.14	1.9	0.041	1.28	26.0	20.6	0.79	384	0.98	1.56	10.4	22.6	460
ZZ34056		3.14	24.5	0.23	5.0	0.101	3.60	63.7	32.3	1.45	311	1.35	1.19	15.8	19.5	440
ZZ34057		2.94	22.8	0.18	5.0	0.102	3.18	45.6	31.3	1.02	374	1.24	1.35	13.3	18.8	400
ZZ34058		3.50	20.4	0.22	3.2	0.075	2.66	62.3	33.0	1.60	748	1.83	0.94	12.7	64.7	520
ZZ34059		3.29	22.5	0.19	4.3	0.098	3.05	41.5	43.2	1.40	266	2.03	0.79	15.8	22.1	490
ZZ34060		3.57	18.55	0.21	3.3	0.074	2.76	51.6	28.3	1.85	439	1.95	0.77	11.8	89.2	730
ZZ34061		3.79	20.3	0.19	3.5	0.072	3.01	45.8	32.3	1.99	554	2.07	0.65	12.3	102.5	640
ZZ34062		3.68	19.50	0.20	3.9	0.062	2.80	40.4	28.4	1.64	533	4.87	0.99	10.6	55.6	850
ZZ34063		3.94	23.0	0.18	4.7	0.080	4.12	39.9	32.7	1.89	279	5.66	0.57	12.0	22.6	850
ZZ34064		3.49	22.5	0.17	4.2	0.076	3.28	43.1	28.9	1.74	417	2.63	1.02	12.6	39.6	590
ZZ34065		3.38	20.5	0.17	3.4	0.064	3.08	48.9	30.1	1.48	358	1.69	0.94	10.9	48.8	660
ZZ34066		3.63	22.1	0.19	3.8	0.087	2.90	46.8	30.1	1.58	444	1.86	0.81	11.3	48.7	610
ZZ34067		3.73	21.0	0.17	3.9	0.066	2.93	46.6	26.1	1.89	504	2.90	0.91	12.0	54.8	710
ZZ34068		3.65	21.2	0.14	3.5	0.057	2.35	34.6	27.4	1.89	424	2.37	1.15	10.0	56.1	430
ZZ34069		3.77	20.2	0.13	3.0	0.070	2.73	33.3	32.3	1.33	442	4.48	0.86	10.7	49.4	730
ZZ34070		3.65	18.90	0.15	2.9	0.069	2.18	41.5	25.9	1.37	814	2.09	1.17	10.3	44.1	820
ZZ34071		3.13	18.20	0.12	2.6	0.047	1.88	39.9	24.2	0.74	1620	1.10	1.22	10.6	26.0	830
ZZ34072		3.49	24.2	0.19	3.2	0.082	3.49	46.5	25.9	0.84	316	1.93	0.49	12.0	33.2	600
ZZ34073		2.31	21.8	0.18	3.7	0.066	3.02	46.6	27.4	0.59	197	1.30	0.27	12.9	23.4	350
ZZ34074		3.51	24.5	0.16	4.5	0.080	3.16	46.1	32.4	1.14	298	4.96	0.77	13.2	32.3	440
ZZ34075		2.78	15.45	0.12	2.4	0.045	1.73	33.1	23.1	0.73	342	0.93	1.21	11.1	24.1	450
ZZ34076		2.56	26.6	0.19	4.3	0.073	3.76	60.1	44.5	0.66	159	1.44	0.13	15.9	31.8	490
ZZ34077		2.98	13.55	0.11	2.1	0.038	1.37	30.5	20.7	0.79	400	0.89	1.41	10.8	24.5	570
ZZ34078		2.78	14.60	0.13	2.1	0.052	1.42	30.5	21.6	0.75	320	0.97	1.27	10.7	24.8	400



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Sample Description	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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOR	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34038		28.5	103.5	<0.002	0.05	3.26	20.2	1	2.7	84.5	0.71	<0.05	13.8	0.330	0.78	2.6
ZZ34039		25.5	141.5	<0.002	0.03	2.21	13.2	3	2.4	221	0.78	<0.05	13.1	0.351	0.80	2.3
ZZ34040		20.9	99.0	<0.002	0.01	1.66	11.7	1	1.6	190.5	0.81	<0.05	10.0	0.388	0.58	2.3
ZZ34041		40.1	139.0	<0.002	0.05	2.61	13.9	1	2.4	153.5	0.86	<0.05	14.8	0.334	0.89	3.2
ZZ34043		13.0	60.5	<0.002	0.01	1.04	11.5	2	1.4	237	0.77	<0.05	7.9	0.412	0.47	2.0
ZZ34044		12.2	61.8	<0.002	0.01	1.14	10.8	2	1.4	244	0.84	<0.05	8.9	0.447	0.39	2.1
ZZ34045		11.5	59.8	<0.002	<0.01	1.12	12.1	2	1.3	260	0.87	<0.05	9.3	0.484	0.40	2.5
ZZ34046		14.5	72.2	<0.002	<0.01	1.42	13.6	5	1.5	215	0.82	0.06	9.9	0.400	0.49	2.6
ZZ34047		19.9	117.0	<0.002	0.01	2.37	13.6	2	2.0	166.5	0.91	<0.05	11.2	0.392	0.79	2.8
ZZ34048		23.6	139.0	<0.002	<0.01	2.45	10.9	4	3.1	83.3	1.03	0.20	18.0	0.255	0.83	3.4
ZZ34049		15.0	57.3	<0.002	0.01	0.96	5.7	1	1.0	510	0.61	<0.05	7.4	0.312	0.40	2.3
ZZ34050		49.7	226	<0.002	0.01	3.79	12.0	1	4.8	55.8	1.09	<0.05	21.7	0.231	1.25	3.1
ZZ34051		15.2	63.9	<0.002	0.01	1.08	10.6	<1	1.6	198.0	0.88	0.10	9.7	0.408	0.52	2.3
ZZ34052		30.0	137.0	<0.002	0.02	1.29	11.1	3	2.5	122.0	1.14	<0.05	16.7	0.232	0.83	4.3
ZZ34053		13.6	56.6	<0.002	0.01	1.13	11.3	<1	1.3	275	0.71	0.12	8.3	0.381	0.38	2.0
ZZ34054		12.9	58.0	<0.002	0.01	1.03	10.7	2	1.3	234	0.74	<0.05	7.7	0.400	0.41	1.9
ZZ34055		12.8	55.9	<0.002	0.01	1.00	10.7	<1	1.4	246	0.80	0.07	7.9	0.404	0.43	2.0
ZZ34056		36.1	144.5	<0.002	0.12	1.78	14.5	2	3.5	130.5	1.24	0.14	24.9	0.233	0.99	4.9
ZZ34057		42.0	142.5	<0.002	0.06	1.63	12.6	3	3.0	180.0	0.98	<0.05	20.8	0.221	0.78	4.2
ZZ34058		39.0	116.5	<0.002	0.05	2.26	14.7	4	2.7	178.0	0.97	0.06	15.9	0.300	0.92	4.4
ZZ34059		74.2	126.5	<0.002	0.09	2.17	14.0	3	3.3	132.5	1.19	0.08	22.9	0.241	1.30	5.2
ZZ34060		46.3	127.5	<0.002	0.05	2.99	15.0	2	2.6	92.2	0.90	0.05	18.0	0.354	0.78	3.1
ZZ34061		45.3	135.5	<0.002	0.06	3.06	16.1	3	2.8	88.5	0.89	<0.05	18.0	0.317	0.87	3.5
ZZ34062		34.2	125.5	<0.002	0.06	2.73	17.7	2	2.3	202	0.81	0.12	14.3	0.367	0.87	4.4
ZZ34063		73.9	151.5	<0.002	0.28	3.15	19.1	5	2.8	178.5	0.92	<0.05	14.7	0.371	1.17	5.9
ZZ34064		30.3	146.0	<0.002	0.02	1.88	18.4	3	3.0	111.5	0.93	<0.05	17.2	0.353	0.93	3.3
ZZ34065		36.9	142.0	<0.002	0.04	2.26	17.1	3	2.9	135.0	0.82	0.16	17.4	0.322	0.92	5.3
ZZ34066		47.9	140.5	<0.002	0.05	2.44	20.0	2	2.8	148.0	0.77	0.09	15.7	0.338	1.03	4.1
ZZ34067		35.0	127.0	0.002	0.07	2.42	17.7	2	3.0	117.0	0.87	0.11	16.4	0.346	0.92	3.6
ZZ34068		31.3	98.2	<0.002	0.07	1.54	16.7	1	2.4	205	0.69	0.25	10.4	0.356	0.79	3.9
ZZ34069		61.2	104.0	<0.002	0.06	2.67	14.9	2	2.7	151.0	0.73	0.22	11.6	0.338	0.95	3.9
ZZ34070		31.8	95.0	<0.002	0.04	1.43	14.6	1	2.3	241	0.70	0.21	11.7	0.344	0.72	3.1
ZZ34071		13.9	89.9	<0.002	0.02	1.01	10.9	2	1.8	219	0.71	0.11	9.8	0.348	0.62	2.0
ZZ34072		78.3	163.0	<0.002	0.06	3.73	15.6	2	3.8	78.6	0.82	0.24	15.2	0.317	1.13	4.0
ZZ34073		31.1	157.5	<0.002	0.02	1.97	13.5	<1	3.3	66.2	0.91	0.21	13.1	0.339	0.92	2.9
ZZ34074		35.4	154.0	0.002	0.04	2.25	14.4	2	3.2	118.0	0.89	0.14	14.3	0.348	1.15	3.9
ZZ34075		14.9	83.6	<0.002	0.01	1.19	11.0	<1	1.6	208	0.79	0.08	8.5	0.387	0.52	2.2
ZZ34076		38.3	198.5	0.002	0.01	2.85	16.7	3	2.9	57.3	1.04	0.19	15.0	0.452	1.02	3.4
ZZ34077		13.0	62.7	<0.002	0.01	1.21	10.5	2	1.5	234	0.74	0.08	8.0	0.405	0.42	2.0
ZZ34078		15.6	69.2	<0.002	0.01	1.35	11.1	1	1.5	204	0.77	<0.05	9.9	0.378	0.52	2.7



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ34038		135	1.6	17.3	124	119.5
ZZ34039		118	1.3	12.2	135	96.3
ZZ34040		132	1.3	11.3	60	77.9
ZZ34041		123	2.1	13.6	83	97.7
ZZ34043		120	1.1	13.6	61	65.5
ZZ34044		120	1.1	14.8	58	70.1
ZZ34045		125	1.3	20.6	60	80.0
ZZ34046		132	1.5	20.4	63	76.5
ZZ34047		151	1.6	19.0	65	92.9
ZZ34048		105	1.5	18.5	57	128.5
ZZ34049		60	0.7	11.7	67	118.0
ZZ34050		65	1.8	13.1	77	130.5
ZZ34051		127	1.4	13.0	53	65.3
ZZ34052		34	1.5	34.0	92	148.0
ZZ34053		111	1.4	15.7	59	60.0
ZZ34054		117	1.1	12.6	62	63.1
ZZ34055		115	1.1	13.2	60	60.8
ZZ34056		40	1.6	33.3	121	173.5
ZZ34057		45	2.2	26.4	114	175.5
ZZ34058		100	1.4	28.8	144	107.5
ZZ34059		56	1.3	25.8	161	155.0
ZZ34060		124	1.6	19.7	136	108.5
ZZ34061		126	1.7	19.4	144	115.0
ZZ34062		158	2.5	21.9	152	128.0
ZZ34063		152	4.2	15.6	151	164.5
ZZ34064		131	2.9	20.0	92	142.0
ZZ34065		127	2.0	19.6	96	116.5
ZZ34066		144	1.8	18.4	107	133.0
ZZ34067		135	2.1	18.3	103	131.0
ZZ34068		121	1.8	18.2	95	128.5
ZZ34069		151	1.8	13.2	162	103.0
ZZ34070		101	1.6	15.2	130	104.0
ZZ34071		91	1.2	10.2	155	95.4
ZZ34072		139	1.9	12.2	123	107.0
ZZ34073		125	1.8	9.5	62	118.0
ZZ34074		142	3.2	15.1	107	149.5
ZZ34075		113	1.2	11.3	54	81.1
ZZ34076		150	2.4	11.3	52	148.5
ZZ34077		114	1.2	13.2	56	70.7
ZZ34078		117	1.6	14.8	52	94.4



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
ZZ34079		0.31	0.004	0.31	8.45	20.6	1490	2.33	0.42	0.56	0.19	101.0	11.3	98	8.83	40.9
ZZ34080	Not Recvd															
ZZ34081		0.26	0.003	0.16	8.04	14.9	1190	2.32	0.29	0.41	0.09	85.6	5.5	105	8.94	39.1
ZZ34082		0.26	0.003	0.09	6.33	12.9	950	1.40	0.17	1.17	0.10	50.6	13.8	76	2.25	26.0
ZZ34083		0.25	0.002	0.10	5.91	9.4	890	1.14	0.20	1.20	0.12	45.7	8.2	62	2.15	13.4
ZZ34084		0.13	0.002	0.07	8.67	4.7	940	3.07	0.32	0.24	0.10	75.4	5.3	93	10.55	26.8
ZZ34085		0.22	0.001	0.16	7.15	5.6	910	1.32	0.21	1.53	0.10	45.9	6.7	45	2.54	21.7
ZZ34100		0.15	0.006	0.17	5.66	11.3	950	1.20	0.17	1.08	0.07	53.1	6.9	71	2.40	16.2
ZZ34101		0.19	0.012	1.60	7.97	27.9	1190	1.67	0.21	1.38	0.14	84.7	4.7	33	3.22	28.9
ZZ34102		0.16	0.024	0.29	7.57	13.2	1310	2.01	0.26	0.79	0.11	70.7	8.5	102	6.82	34.5
ZZ34103		0.27	0.003	0.35	8.18	9.9	2260	2.57	0.25	0.16	0.08	111.5	1.5	54	6.22	18.8
ZZ34104		0.15	0.025	0.73	7.72	10.2	1130	1.55	0.20	1.39	0.37	66.2	5.3	45	3.59	22.7
ZZ34105		0.22	0.004	0.31	7.99	13.1	1590	2.27	0.26	0.46	0.09	96.0	5.3	102	7.87	46.5
ZZ34106		0.15	0.005	1.68	6.71	11.0	1080	1.42	0.25	0.98	0.71	66.5	23.1	77	5.26	46.6
ZZ34107		0.19	0.005	1.06	8.65	9.2	2490	2.72	0.26	0.13	0.07	93.0	2.5	98	9.67	23.9
ZZ34108		0.17	0.004	0.44	8.37	39.4	3770	2.69	0.38	0.35	0.56	84.3	26.2	210	7.24	90.8
ZZ34109		0.21	0.004	0.49	8.35	24.6	2660	2.94	0.34	0.74	0.65	95.1	21.7	151	10.35	67.1
ZZ34110		0.19	0.003	0.11	8.62	19.9	1520	1.99	0.17	0.74	0.27	72.6	30.6	251	5.93	56.7
ZZ34111		0.20	0.006	0.42	8.69	43.4	2670	2.73	0.28	0.30	0.61	88.8	26.1	162	7.42	71.7
ZZ34112		0.19	0.003	0.35	7.68	22.1	2010	2.25	0.22	0.79	0.45	65.9	25.9	192	6.83	50.2
ZZ34113		0.24	0.007	0.50	7.99	33.0	1900	2.37	0.26	0.49	0.31	94.8	13.9	150	5.26	37.9
ZZ34114		0.17	0.008	0.62	7.43	22.0	4800	3.06	0.35	0.24	0.46	79.4	11.7	125	9.61	62.9
ZZ34115		0.19	0.003	0.23	7.76	26.4	1460	1.62	0.21	1.22	0.32	65.4	28.5	245	4.81	46.2
ZZ34116		0.17	0.005	0.49	7.89	30.6	3030	2.80	0.30	0.24	0.22	86.7	7.4	79	8.18	53.3
ZZ34117		0.15	0.004	0.54	8.37	11.9	3430	4.03	0.43	0.62	0.31	155.5	5.1	41	10.30	30.7
ZZ34118		0.26	0.003	0.42	8.53	10.8	3280	3.87	0.54	0.75	0.25	127.0	3.3	28	12.20	25.9
ZZ34119		0.19	0.004	0.33	7.91	17.7	2560	3.25	0.28	0.46	0.35	142.5	6.3	59	7.47	23.0
ZZ34120		0.22	0.010	0.49	8.01	25.2	3110	3.33	0.33	1.10	0.75	131.0	5.2	45	8.06	30.1
ZZ34121		0.25	0.004	0.43	7.37	17.4	2230	2.71	0.36	0.82	0.64	109.0	8.4	65	6.02	33.3
ZZ34122		0.22	0.003	0.57	7.88	20.5	2320	2.86	0.36	0.59	0.40	107.0	8.9	83	6.89	29.8
ZZ34123		0.18	0.004	0.56	8.26	18.0	2740	3.47	0.46	0.61	0.85	108.0	9.5	83	7.82	49.9
ZZ34124		0.18	0.004	0.41	7.86	14.4	2260	2.88	0.42	1.16	0.46	111.0	7.9	85	7.08	42.8
ZZ34125		0.16	0.003	0.16	8.08	10.3	2440	3.14	0.32	0.93	0.27	166.0	5.8	64	9.24	29.7
ZZ34126		0.22	0.026	0.62	2.71	51.4	100	0.97	0.14	5.69	0.60	25.7	7.7	50	3.06	69.2
ZZ34127		0.21	0.003	0.95	7.93	115.0	2190	1.86	2.29	1.27	0.67	80.0	7.1	80	4.52	48.3
ZZ34128		0.18	0.001	0.29	8.45	10.4	1610	2.73	0.30	0.51	0.28	118.5	13.0	118	7.63	43.3
ZZ34129		0.17	0.003	0.30	7.95	11.4	1510	2.27	0.33	1.00	0.45	89.1	12.0	71	5.73	26.9
ZZ34130		0.25	0.031	0.30	8.34	23.2	2340	2.89	0.52	0.55	0.16	116.0	9.2	97	7.04	32.7
ZZ34131		0.23	0.005	0.45	7.40	17.6	2270	2.70	0.42	1.18	0.46	109.0	7.6	79	6.19	33.8
ZZ34132		0.27	0.004	0.41	7.61	25.8	2540	3.09	0.54	0.65	0.71	139.5	8.8	66	7.03	33.9



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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ34079		3.47	22.3	0.16	3.4	0.073	2.67	53.3	36.6	0.76	356	1.48	0.69	12.2	38.0	610
ZZ34080																
ZZ34081		2.40	22.9	0.15	3.5	0.073	2.94	44.8	32.1	0.65	158	1.10	0.56	13.2	22.1	270
ZZ34082		3.34	14.05	0.11	2.0	0.042	1.27	25.8	21.0	0.82	408	1.07	1.50	10.2	32.5	360
ZZ34083		3.04	14.85	0.09	2.2	0.037	1.28	23.1	21.9	0.63	321	1.38	1.53	10.4	16.8	290
ZZ34084		2.13	25.7	0.14	3.6	0.080	3.87	36.6	47.5	0.83	186	3.10	0.29	13.3	29.3	330
ZZ34085		2.52	18.30	0.11	3.0	0.028	1.74	23.8	22.4	0.54	390	1.37	2.07	9.3	12.0	330
ZZ34100		2.59	14.10	0.10	2.1	0.035	1.31	26.8	18.8	0.65	273	0.93	1.29	11.0	17.6	360
ZZ34101		2.79	21.2	0.15	3.2	0.037	2.55	43.6	22.6	0.68	396	1.80	2.02	8.2	8.1	640
ZZ34102		3.22	20.1	0.13	2.8	0.057	2.35	37.7	31.1	0.77	349	2.81	0.84	11.1	25.7	520
ZZ34103		1.95	23.7	0.18	4.3	0.090	3.62	56.1	20.0	0.60	92	1.94	0.34	14.4	10.2	380
ZZ34104		2.32	20.6	0.12	3.6	0.037	2.49	32.7	19.4	0.57	297	1.85	1.87	9.3	14.5	440
ZZ34105		3.33	22.3	0.17	3.6	0.061	2.64	49.2	33.8	0.64	175	2.07	0.51	12.4	30.4	660
ZZ34106		3.71	17.25	0.12	2.5	0.053	1.33	34.1	27.1	0.60	1040	2.08	0.94	7.9	26.5	1400
ZZ34107		1.90	25.9	0.18	4.4	0.087	3.36	47.3	39.5	0.62	77	2.48	0.11	15.9	15.3	380
ZZ34108		5.39	25.3	0.16	3.4	0.079	3.55	40.5	28.8	1.98	1150	3.84	0.12	7.3	132.5	1010
ZZ34109		4.10	23.6	0.15	3.8	0.077	3.67	50.1	28.3	0.85	1100	3.16	0.20	12.1	78.4	640
ZZ34110		5.47	22.1	0.14	2.7	0.059	2.60	34.0	30.3	2.72	732	1.59	0.88	8.7	159.5	610
ZZ34111		5.21	23.8	0.15	3.0	0.076	3.45	41.6	31.0	1.52	966	3.15	0.33	8.2	107.5	840
ZZ34112		4.54	21.8	0.14	3.3	0.067	2.68	30.5	31.6	1.97	813	2.31	0.78	10.5	126.5	510
ZZ34113		3.44	22.3	0.18	3.2	0.076	3.25	45.2	28.1	1.47	361	1.61	0.52	11.8	80.9	590
ZZ34114		3.61	22.1	0.17	4.4	0.077	3.39	39.9	34.9	0.78	235	3.54	0.10	13.3	64.9	580
ZZ34115		4.73	19.25	0.12	2.4	0.061	2.26	31.5	30.5	2.65	662	1.71	0.90	9.1	129.5	500
ZZ34116		3.73	23.9	0.18	4.2	0.089	3.44	42.8	33.0	1.38	360	4.22	0.63	11.9	32.8	440
ZZ34117		2.77	26.7	0.28	5.1	0.123	4.01	88.4	29.5	1.31	306	2.09	0.75	14.4	20.3	420
ZZ34118		2.70	26.6	0.22	5.2	0.157	4.21	70.2	32.4	1.26	226	1.61	0.75	14.6	13.8	300
ZZ34119		3.05	23.7	0.28	4.9	0.091	3.28	68.7	28.2	1.05	267	1.80	1.00	15.5	27.7	300
ZZ34120		3.08	23.8	0.22	4.7	0.108	3.01	65.5	31.4	1.10	376	2.48	0.76	14.4	22.8	490
ZZ34121		3.01	20.7	0.20	3.8	0.073	2.88	54.8	26.4	0.97	662	2.37	0.91	12.2	32.4	530
ZZ34122		3.18	22.7	0.20	3.9	0.075	3.22	51.7	28.6	1.08	337	2.31	0.80	12.7	36.2	540
ZZ34123		3.51	24.3	0.21	3.9	0.097	3.30	51.1	32.5	1.22	609	2.03	0.84	12.3	40.2	420
ZZ34124		3.07	22.2	0.20	3.9	0.082	2.90	58.6	30.9	1.07	377	1.67	0.73	11.3	34.8	600
ZZ34125		2.94	23.4	0.25	4.4	0.091	3.22	87.5	31.4	0.99	279	1.47	0.81	14.1	26.4	470
ZZ34126		18.20	7.97	0.13	0.8	0.071	0.99	11.2	13.1	0.37	1420	6.21	0.19	2.9	23.0	840
ZZ34127		3.58	21.3	0.15	3.3	0.066	2.70	39.4	23.5	0.87	418	3.34	1.20	8.8	28.7	680
ZZ34128		3.51	22.9	0.17	3.6	0.064	3.16	57.8	32.3	0.79	361	1.83	0.59	10.5	50.4	680
ZZ34129		3.31	21.0	0.16	3.3	0.061	2.61	42.4	28.9	0.86	621	1.59	1.21	11.4	31.6	650
ZZ34130		3.51	23.0	0.25	3.9	0.083	3.13	57.9	32.0	1.16	373	2.22	0.76	13.3	37.0	370
ZZ34131		2.91	19.85	0.21	4.0	0.072	2.83	55.6	26.2	1.05	395	2.40	0.81	11.0	29.4	590
ZZ34132		3.26	22.7	0.21	4.5	0.080	3.05	66.2	29.4	1.15	423	2.69	0.75	13.3	32.4	540



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34079		35.6	145.5	<0.002	0.02	2.15	14.7	1	2.6	124.0	0.81	0.16	15.7	0.356	0.79	3.5
ZZ34080																
ZZ34081		31.5	160.5	<0.002	0.01	2.28	14.9	4	2.6	108.5	0.87	0.08	11.9	0.408	0.84	2.9
ZZ34082		13.8	55.5	<0.002	0.01	1.28	10.7	2	1.3	240	0.70	0.10	8.1	0.379	0.44	1.9
ZZ34083		13.0	51.7	<0.002	0.01	0.93	8.0	1	1.4	249	0.73	0.12	5.9	0.386	0.44	1.8
ZZ34084		21.5	198.5	<0.002	0.01	2.66	17.4	2	2.9	55.4	0.87	0.16	11.9	0.429	1.04	3.1
ZZ34085		15.1	63.7	<0.002	0.01	0.80	7.0	<1	1.3	396	0.64	0.18	5.8	0.355	0.46	2.0
ZZ34100		14.6	58.3	<0.002	0.01	1.19	9.7	1	2.2	189.0	0.78	0.12	7.3	0.402	0.48	1.9
ZZ34101		16.5	94.4	<0.002	0.03	2.46	7.5	2	1.5	428	0.55	0.25	10.1	0.270	0.58	2.7
ZZ34102		32.4	126.5	0.002	0.01	2.17	13.1	1	2.2	156.0	0.76	0.24	9.1	0.398	0.73	2.8
ZZ34103		40.4	183.0	<0.002	0.13	3.08	10.3	3	4.2	39.3	0.99	0.11	23.8	0.182	1.21	3.1
ZZ34104		22.2	110.0	<0.002	0.05	1.50	8.2	4	1.8	365	0.66	0.16	9.1	0.320	0.66	3.2
ZZ34105		192.5	151.0	<0.002	0.01	2.75	14.8	3	2.4	116.0	0.87	0.22	13.2	0.368	0.79	3.9
ZZ34106		26.8	83.0	<0.002	0.06	1.55	12.5	<1	1.6	181.5	0.53	0.12	9.6	0.318	0.55	3.5
ZZ34107		104.0	179.0	<0.002	0.02	3.44	16.5	3	3.2	75.5	1.05	0.20	14.0	0.390	1.13	3.3
ZZ34108		24.4	124.0	<0.002	0.04	2.19	18.8	4	2.9	66.7	0.48	0.27	13.1	0.260	1.05	3.2
ZZ34109		26.4	188.0	<0.002	0.04	3.75	17.9	4	3.1	91.0	0.73	0.20	13.6	0.335	1.24	5.5
ZZ34110		18.7	101.5	<0.002	0.02	2.21	20.8	2	2.3	60.9	0.58	0.09	11.5	0.390	0.79	2.6
ZZ34111		33.6	151.5	<0.002	0.05	3.93	20.1	4	2.6	63.8	0.53	0.14	14.6	0.288	1.08	3.1
ZZ34112		28.2	97.8	<0.002	0.02	2.64	18.6	2	2.4	102.0	0.69	0.13	11.0	0.359	0.94	2.6
ZZ34113		32.4	151.0	<0.002	0.05	3.07	14.2	<1	3.4	75.5	0.81	0.19	16.1	0.278	1.05	3.8
ZZ34114		45.7	157.0	<0.002	0.03	4.05	14.8	2	3.1	74.2	0.88	0.19	14.6	0.303	1.18	4.2
ZZ34115		26.1	93.2	<0.002	0.03	2.58	18.3	5	2.0	105.5	0.61	0.13	9.6	0.367	0.66	2.6
ZZ34116		184.5	146.5	<0.002	0.19	3.27	14.1	4	3.2	74.5	0.81	0.15	13.6	0.229	1.15	3.3
ZZ34117		74.7	169.0	<0.002	0.08	2.29	14.0	2	3.8	132.5	1.06	0.09	27.1	0.195	0.97	6.0
ZZ34118		64.0	173.5	<0.002	0.04	2.14	13.3	3	4.3	123.0	1.12	0.08	24.8	0.190	0.94	5.5
ZZ34119		42.4	139.5	0.004	0.14	2.27	14.2	3	3.3	120.0	1.12	<0.05	21.8	0.228	1.03	7.2
ZZ34120		61.8	138.0	0.002	0.09	3.17	13.9	4	3.4	145.0	1.01	0.14	23.5	0.189	1.25	6.8
ZZ34121		58.5	135.5	<0.002	0.04	2.71	13.2	4	2.8	135.5	0.86	<0.05	18.2	0.269	0.93	4.4
ZZ34122		49.5	153.5	<0.002	0.02	2.84	14.7	1	3.2	105.5	0.90	<0.05	18.6	0.272	1.04	4.4
ZZ34123		63.9	155.0	<0.002	0.03	2.48	15.7	1	3.4	107.5	0.88	0.07	20.1	0.260	1.35	3.8
ZZ34124		49.1	141.5	0.004	0.06	2.49	15.5	1	2.9	150.0	0.81	0.14	18.9	0.267	1.04	5.0
ZZ34125		47.1	160.5	<0.002	0.04	2.17	15.0	3	3.1	136.5	1.05	<0.05	24.0	0.256	0.96	6.5
ZZ34126		477	44.3	0.002	3.67	18.50	7.0	3	0.7	101.5	0.20	0.27	3.2	0.110	6.64	1.1
ZZ34127		58.7	124.0	<0.002	0.11	4.05	13.8	2	3.0	318	0.64	0.38	11.0	0.314	0.93	3.5
ZZ34128		33.4	167.0	<0.002	0.04	1.71	15.7	1	2.6	130.5	0.73	0.05	17.5	0.319	0.95	3.6
ZZ34129		51.8	130.5	0.002	0.03	1.50	13.0	2	2.3	206	0.78	<0.05	13.1	0.328	0.76	2.9
ZZ34130		48.2	151.5	<0.002	0.02	2.51	16.6	2	3.2	105.0	0.97	0.08	20.1	0.316	1.07	4.1
ZZ34131		56.1	135.5	0.004	0.06	2.49	14.1	4	2.7	137.5	0.83	0.12	17.6	0.257	0.96	5.2
ZZ34132		60.9	142.0	0.002	0.07	2.79	14.7	3	3.3	99.1	0.92	0.05	21.6	0.250	1.25	4.7



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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ34079		131	1.4	16.2	72	118.0
ZZ34080						
ZZ34081		142	1.8	10.9	42	121.0
ZZ34082		115	1.1	12.0	61	71.1
ZZ34083		113	1.2	9.5	51	76.0
ZZ34084		164	1.6	8.4	51	133.0
ZZ34085		84	0.9	9.8	64	115.0
ZZ34100		113	1.4	11.2	43	67.8
ZZ34101		61	1.1	9.4	64	117.5
ZZ34102		162	1.4	10.8	60	98.7
ZZ34103		54	1.6	12.5	57	132.0
ZZ34104		81	1.0	12.4	81	125.0
ZZ34105		147	1.4	11.9	61	127.0
ZZ34106		117	1.1	13.2	72	96.6
ZZ34107		176	2.1	11.1	51	143.5
ZZ34108		183	2.7	14.2	185	117.0
ZZ34109		203	3.1	16.4	187	137.5
ZZ34110		162	1.3	12.2	158	90.5
ZZ34111		196	1.9	13.7	196	105.0
ZZ34112		159	1.6	16.8	146	111.0
ZZ34113		104	1.5	13.0	115	100.5
ZZ34114		193	2.7	14.2	250	154.0
ZZ34115		149	1.2	13.7	137	79.2
ZZ34116		119	2.6	12.5	192	147.5
ZZ34117		55	2.2	43.4	162	180.5
ZZ34118		43	2.1	45.9	188	180.0
ZZ34119		68	1.6	37.2	119	160.5
ZZ34120		55	1.4	30.7	173	187.5
ZZ34121		89	2.0	24.8	136	134.5
ZZ34122		105	1.8	19.9	130	134.0
ZZ34123		100	1.7	21.0	158	133.0
ZZ34124		95	1.6	27.4	139	134.0
ZZ34125		83	1.6	41.0	114	151.0
ZZ34126		161	0.8	6.4	194	29.6
ZZ34127		153	5.1	10.3	140	124.0
ZZ34128		122	1.7	10.2	131	128.0
ZZ34129		100	1.3	12.0	172	112.5
ZZ34130		116	1.9	20.9	128	134.0
ZZ34131		89	1.7	25.7	139	135.0
ZZ34132		85	1.9	29.4	174	156.0



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34133		0.19	0.003	0.39	7.57	12.9	2570	2.84	0.34	0.92	0.35	124.5	6.4	47	6.22	25.1
ZZ34134		0.20	0.007	1.06	8.19	32.6	3140	2.83	0.44	0.87	1.53	102.5	14.9	101	7.19	59.8
ZZ34135		0.18	0.005	0.71	8.66	50.9	3470	3.09	0.63	0.36	1.56	101.5	20.2	131	9.37	65.8
ZZ34136		0.23	0.009	1.24	8.87	45.2	3580	2.89	0.66	0.34	1.00	88.1	10.1	89	7.43	68.7
ZZ34137		0.17	0.002	0.32	5.76	8.7	820	1.36	0.19	1.90	0.26	57.0	9.5	71	2.81	31.1
ZZ34138		0.22	0.006	0.46	7.45	9.5	1610	2.23	0.25	1.08	0.46	108.5	8.4	95	6.97	45.4
ZZ34139		0.15	0.004	0.43	8.54	40.7	2450	2.78	0.30	0.36	0.55	113.5	12.6	89	7.83	36.4
ZZ34140		0.29	0.006	0.79	9.23	21.7	2880	3.37	0.37	0.40	0.58	108.5	10.9	107	9.24	48.1
ZZ34141		0.19	0.006	0.35	8.37	37.7	2080	2.76	0.30	0.34	0.15	113.0	4.5	88	7.10	24.1
ZZ34142		0.19	0.005	0.30	5.90	15.7	1030	1.32	0.19	1.15	0.19	59.5	6.6	65	3.31	16.7
ZZ34143		0.26	0.003	0.13	6.72	12.2	1350	1.80	0.34	0.78	0.16	86.2	8.0	78	5.84	32.0
ZZ34144		0.30	0.004	0.13	6.73	12.8	1120	1.79	0.22	1.00	0.09	68.1	8.4	86	4.76	25.1
ZZ34145		0.17	0.002	0.11	6.69	11.3	990	1.64	0.19	0.95	0.11	55.4	9.4	81	3.85	23.7
ZZ34146		0.16	0.002	0.24	6.16	10.6	950	1.29	0.20	1.23	0.11	49.1	9.5	71	2.49	17.7
ZZ34147		0.28	0.007	0.08	5.87	10.9	980	1.25	0.18	1.17	0.15	55.0	9.3	75	2.42	17.5
ZZ34148		0.19	0.003	0.18	5.83	11.6	860	1.10	0.18	1.14	0.12	47.8	7.9	70	1.94	15.9
ZZ34149		0.25	0.004	0.12	6.17	11.8	940	1.39	0.19	0.98	0.09	47.8	10.7	76	2.58	22.7
ZZ34150		0.15	0.002	0.16	6.31	10.2	960	1.38	0.21	1.01	0.08	60.5	6.6	76	3.95	16.1
ZZ34151		0.36	0.009	0.44	8.24	28.2	3060	2.84	0.30	0.53	0.50	97.5	17.3	174	7.18	47.4
ZZ34152		0.19	0.046	0.59	7.10	31.1	2440	2.00	0.23	0.95	0.45	64.7	24.3	278	4.66	56.3
ZZ34153		0.13	0.019	0.70	7.92	28.1	2620	2.13	0.28	1.00	0.25	82.4	21.4	250	6.27	57.6
ZZ34154		0.18	0.006	0.56	8.76	38.6	3880	2.93	0.35	0.42	0.46	105.0	20.7	121	8.14	79.3
ZZ34155		0.25	0.022	0.83	7.68	32.0	2130	2.16	0.25	0.61	0.35	91.6	19.3	193	5.58	57.2
ZZ34156		0.20	0.008	0.38	7.89	21.3	2190	2.08	0.26	1.04	0.17	89.9	13.3	145	5.68	39.1
ZZ34157		0.21	0.005	0.66	8.08	15.0	2990	2.54	0.24	1.29	0.67	89.4	12.7	111	7.38	41.2
ZZ34158		0.17	0.015	0.79	7.83	25.7	3720	2.88	0.30	0.41	0.35	102.5	10.2	116	9.03	44.2
ZZ34159		0.17	0.016	0.61	7.72	23.2	2620	2.79	0.24	0.09	0.26	104.0	4.2	75	6.11	30.8
ZZ34160		0.10	0.003	0.25	6.57	11.6	1710	1.85	0.21	0.99	0.26	78.8	8.8	90	4.74	32.6
ZZ34161		0.38	0.019	0.57	7.89	22.3	1930	2.15	0.29	0.68	0.14	86.9	10.1	112	5.61	35.6
ZZ34162		0.23	0.015	0.54	7.02	21.4	2010	2.08	0.25	0.60	0.33	93.9	10.9	117	5.74	37.0
ZZ34163		0.19	0.017	0.50	7.26	22.5	1780	1.89	0.20	0.76	0.17	78.3	10.3	108	5.02	33.7
ZZ34164		0.11	0.021	0.65	7.69	33.9	2010	2.31	0.26	0.73	0.31	89.6	18.9	113	4.95	37.9
ZZ34165		0.25	0.019	0.62	7.88	28.5	2060	2.21	0.27	0.78	0.29	90.2	18.7	161	4.97	35.9
ZZ34166		0.29	0.010	0.40	6.96	17.7	1520	1.79	0.18	1.39	0.41	66.4	18.0	166	4.10	33.4
ZZ34167		0.06	0.025	0.35	7.12	16.5	1100	1.39	0.18	1.49	0.56	51.7	32.3	287	3.42	33.0
ZZ34168		0.19	0.012	0.31	7.70	17.0	1790	1.75	0.22	1.12	0.18	72.1	9.5	96	4.13	24.8
ZZ34169		0.28	0.015	0.47	7.44	22.3	1660	2.04	0.20	1.11	0.21	76.2	9.5	83	4.43	30.0
ZZ34170		0.10	0.003	1.23	5.96	9.0	1000	1.31	0.14	2.05	0.41	45.8	5.6	45	2.64	29.5
ZZ34171		0.14	0.014	0.19	9.34	33.0	1910	2.60	0.21	0.49	0.09	95.2	17.1	177	6.20	34.3
ZZ34172		0.24	0.014	1.05	8.74	99.7	1930	2.48	0.43	0.30	0.15	120.0	3.5	65	5.96	24.9



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CERTIFICATE OF ANALYSIS WH13115622

Sample Description	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR	0.01	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	
ZZ34133	2.85	21.6	0.20	4.3	0.078	3.06	62.9	28.2	0.94	410	2.03	1.11	11.7	19.3	360	
ZZ34134	3.83	22.6	0.18	4.3	0.084	2.89	50.4	37.3	1.36	985	8.99	0.68	12.1	54.1	840	
ZZ34135	4.42	24.2	0.21	4.4	0.079	3.35	48.8	39.4	1.23	682	14.95	0.50	12.5	68.1	820	
ZZ34136	4.51	26.5	0.19	5.7	0.104	3.99	40.8	43.5	2.40	577	10.05	0.60	13.6	41.7	1030	
ZZ34137	2.66	14.20	0.11	1.9	0.037	1.37	26.9	25.4	0.73	690	1.76	1.24	9.2	26.7	610	
ZZ34138	3.51	19.45	0.17	3.4	0.055	2.76	53.0	28.0	0.79	251	1.87	0.50	10.2	41.1	880	
ZZ34139	3.91	23.7	0.23	3.5	0.071	3.82	52.8	27.0	1.02	353	1.81	0.40	10.9	58.1	650	
ZZ34140	3.72	26.4	0.22	5.0	0.098	4.05	51.2	30.1	1.13	377	4.80	0.39	12.8	47.6	890	
ZZ34141	2.79	23.6	0.19	3.6	0.070	3.66	53.7	28.6	1.02	220	1.42	0.47	12.2	24.8	450	
ZZ34142	2.60	14.60	0.11	2.2	0.035	1.49	29.0	20.3	0.70	345	1.56	1.29	10.1	18.0	390	
ZZ34143	2.91	16.65	0.14	2.4	0.055	1.85	43.4	26.3	0.68	331	1.85	0.81	10.8	26.8	620	
ZZ34144	3.09	16.80	0.14	2.5	0.051	1.84	35.0	25.8	0.78	337	1.60	1.12	10.5	24.8	510	
ZZ34145	3.00	15.60	0.12	2.2	0.039	1.72	27.7	24.0	0.73	319	1.43	1.22	10.1	25.1	390	
ZZ34146	3.09	15.10	0.10	2.0	0.032	1.30	24.2	21.5	0.73	433	1.41	1.47	10.3	21.2	280	
ZZ34147	3.07	13.15	0.11	1.7	0.038	1.24	26.5	19.7	0.78	353	1.03	1.39	10.0	23.5	430	
ZZ34148	3.02	13.65	0.10	1.9	0.032	1.13	23.9	18.5	0.70	323	1.18	1.45	9.8	21.6	280	
ZZ34149	3.22	13.50	0.12	1.7	0.037	1.16	23.9	20.8	0.75	343	1.26	1.29	9.7	28.2	220	
ZZ34150	3.00	17.30	0.13	2.2	0.040	1.60	30.1	21.9	0.74	316	1.80	1.30	11.9	19.1	310	
ZZ34151	4.33	23.7	0.17	3.8	0.083	3.13	46.9	40.3	2.32	722	2.71	0.61	12.5	115.5	740	
ZZ34152	4.59	18.90	0.15	2.6	0.068	2.39	30.8	28.1	3.18	840	2.11	0.59	9.1	198.5	610	
ZZ34153	3.89	23.4	0.26	3.4	0.077	2.87	39.2	33.5	2.53	541	1.74	0.90	11.0	196.5	600	
ZZ34154	4.47	28.5	0.40	3.3	0.099	4.06	48.2	30.9	1.21	649	3.86	0.27	7.9	87.1	690	
ZZ34155	4.17	23.2	0.28	3.3	0.070	2.94	42.4	30.6	2.18	491	1.91	0.63	10.1	121.0	680	
ZZ34156	3.63	22.7	0.29	3.5	0.063	2.63	43.0	34.3	1.79	453	1.75	1.04	10.5	84.2	700	
ZZ34157	3.50	22.1	0.18	3.8	0.061	2.80	47.7	41.2	1.79	667	2.24	0.95	10.7	57.4	720	
ZZ34158	3.52	23.3	0.19	4.2	0.080	3.25	54.3	34.9	1.28	244	2.21	0.42	13.0	53.9	610	
ZZ34159	2.93	23.9	0.18	5.2	0.088	3.51	53.4	26.4	0.55	124	3.80	0.67	15.6	28.7	770	
ZZ34160	2.92	17.90	0.17	3.2	0.051	2.12	42.7	24.3	0.82	321	1.91	0.90	10.9	31.2	600	
ZZ34161	3.05	21.5	0.16	3.6	0.072	2.85	46.0	27.8	1.14	346	1.67	0.71	11.0	44.5	530	
ZZ34162	3.22	19.40	0.17	3.1	0.065	2.41	49.5	25.2	1.15	383	2.73	0.67	10.5	49.6	620	
ZZ34163	3.21	19.25	0.16	2.9	0.058	2.37	41.6	26.0	1.08	335	1.69	0.80	11.2	43.5	590	
ZZ34164	3.74	21.6	0.18	3.4	0.080	2.95	46.4	25.6	1.25	493	2.03	0.72	10.8	59.7	660	
ZZ34165	4.07	22.1	0.16	3.5	0.077	2.74	45.6	28.9	2.04	639	1.78	0.80	10.2	97.3	660	
ZZ34166	3.70	18.40	0.17	2.7	0.057	1.94	36.6	26.0	2.06	595	1.35	1.10	9.8	114.5	670	
ZZ34167	4.73	17.65	0.10	2.0	0.056	1.74	26.6	27.9	3.63	1180	1.26	1.02	8.2	215	560	
ZZ34168	3.75	19.15	0.15	2.6	0.060	2.30	38.7	25.8	1.20	368	1.20	1.23	10.1	32.5	570	
ZZ34169	3.39	19.50	0.17	2.8	0.061	2.51	41.5	24.9	0.95	404	1.35	1.01	9.7	30.4	650	
ZZ34170	2.12	15.65	0.12	2.7	0.029	1.56	25.1	16.2	0.55	403	1.47	1.70	8.1	16.7	490	
ZZ34171	4.23	26.1	0.20	2.7	0.079	3.44	47.4	29.5	1.92	535	1.42	0.60	9.3	103.5	560	
ZZ34172	3.13	25.8	0.20	3.3	0.078	3.96	64.9	20.1	0.76	170	2.11	0.47	13.2	12.7	480	



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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34133	76.3	136.0	0.003	0.04	2.06	12.5	2	2.8	175.5	0.86	0.08	19.4	0.254	0.93	5.1
ZZ34134	89.8	123.5	0.005	0.09	4.11	16.1	4	3.0	142.0	0.84	0.10	17.4	0.293	1.35	6.7
ZZ34135	33.0	144.5	0.002	0.07	6.80	18.2	6	3.1	79.1	0.87	0.11	17.3	0.311	1.56	5.3
ZZ34136	582	125.0	0.002	0.22	7.93	18.1	8	3.5	115.0	1.02	0.13	16.7	0.339	1.55	7.1
ZZ34137	15.3	69.0	0.003	0.06	1.20	10.1	2	1.5	247	0.69	0.07	8.9	0.335	0.49	9.2
ZZ34138	31.7	146.0	0.002	0.11	1.93	13.8	2	2.1	177.5	0.74	<0.05	15.7	0.309	0.75	10.4
ZZ34139	36.5	181.0	<0.002	0.05	2.52	13.3	2	3.5	63.7	0.74	0.10	21.5	0.195	1.05	4.5
ZZ34140	47.6	191.5	<0.002	0.06	4.09	17.3	2	4.1	83.8	0.92	0.11	21.3	0.269	1.36	5.0
ZZ34141	36.0	178.0	<0.002	0.08	3.36	12.9	2	3.7	82.4	0.85	<0.05	19.3	0.248	1.17	3.6
ZZ34142	17.2	82.7	0.002	0.02	1.37	9.7	1	1.7	204	0.74	<0.05	9.5	0.366	0.57	2.7
ZZ34143	24.8	103.5	<0.002	0.01	2.04	12.4	<1	2.5	139.5	0.77	<0.05	11.8	0.355	0.60	2.9
ZZ34144	20.8	95.9	<0.002	0.01	1.57	12.4	<1	1.8	189.0	0.76	0.05	10.3	0.377	0.64	2.6
ZZ34145	16.2	83.4	0.002	0.01	1.35	11.2	<1	1.6	202	0.77	0.11	8.5	0.381	0.60	2.3
ZZ34146	14.5	59.8	<0.002	0.01	1.08	9.4	2	1.6	236	0.77	<0.05	6.8	0.399	0.52	2.1
ZZ34147	13.6	58.7	<0.002	0.01	1.10	10.6	<1	1.5	205	0.76	0.05	8.2	0.374	0.50	2.4
ZZ34148	13.0	49.8	<0.002	0.01	1.09	9.3	<1	1.4	229	0.71	<0.05	6.8	0.397	0.47	1.9
ZZ34149	14.3	53.9	<0.002	0.01	1.29	10.0	<1	1.5	190.5	0.68	<0.05	8.3	0.358	0.47	2.1
ZZ34150	15.8	92.7	<0.002	0.01	1.34	11.2	<1	1.8	193.5	0.84	<0.05	7.5	0.455	0.66	2.2
ZZ34151	59.5	122.5	<0.002	0.04	3.53	18.1	2	3.2	80.9	0.91	0.08	16.9	0.328	1.04	3.4
ZZ34152	29.7	86.2	<0.002	0.05	4.00	18.7	2	2.4	62.7	0.62	<0.05	11.4	0.374	0.79	3.0
ZZ34153	59.6	126.0	<0.002	0.03	3.54	17.0	4	2.9	165.5	0.76	0.13	14.6	0.306	0.91	4.0
ZZ34154	95.7	193.5	<0.002	0.04	3.96	21.2	4	3.7	51.7	0.51	0.23	19.9	0.204	1.23	4.0
ZZ34155	37.3	134.0	<0.002	0.05	4.71	18.8	4	3.0	67.5	0.70	0.17	16.4	0.320	0.96	3.6
ZZ34156	39.8	115.0	0.002	0.04	2.67	15.9	2	2.5	178.0	0.73	0.14	15.8	0.310	0.87	4.7
ZZ34157	37.5	121.5	<0.002	0.04	2.37	15.1	2	2.9	179.0	0.76	<0.05	16.2	0.285	1.04	3.3
ZZ34158	48.4	164.0	<0.002	0.08	3.63	14.9	2	3.5	75.0	0.90	0.09	17.7	0.285	1.20	3.7
ZZ34159	60.6	174.0	<0.002	0.22	3.33	11.8	4	4.0	54.2	1.14	0.08	26.1	0.207	1.29	7.0
ZZ34160	35.7	107.0	<0.002	0.02	2.33	13.4	3	2.2	179.0	0.80	0.06	12.6	0.365	0.73	3.8
ZZ34161	43.2	146.0	<0.002	0.02	3.25	14.7	2	3.3	133.5	0.81	0.06	16.4	0.313	0.99	5.6
ZZ34162	53.9	130.0	<0.002	0.06	3.20	14.0	3	2.7	118.5	0.77	0.05	16.0	0.311	0.97	4.5
ZZ34163	30.5	127.5	<0.002	0.02	3.18	14.6	2	2.6	131.0	0.84	0.05	13.4	0.349	0.88	3.6
ZZ34164	43.5	149.5	0.002	0.03	4.53	15.7	5	3.4	97.2	0.78	0.06	17.5	0.292	1.05	5.0
ZZ34165	42.0	127.5	<0.002	0.02	3.60	18.3	3	3.4	89.3	0.74	0.08	16.8	0.332	0.98	3.8
ZZ34166	18.8	102.0	<0.002	0.02	2.29	15.8	2	2.2	163.0	0.67	0.05	11.1	0.363	0.72	3.1
ZZ34167	18.3	83.0	<0.002	0.03	3.13	19.1	2	2.2	113.0	0.58	0.06	8.7	0.378	0.62	2.5
ZZ34168	19.5	119.0	<0.002	0.01	3.01	15.4	1	2.5	135.0	0.70	0.06	12.2	0.367	0.86	3.2
ZZ34169	21.6	128.0	<0.002	0.02	3.09	14.5	3	2.5	144.0	0.65	0.06	13.1	0.322	0.86	3.5
ZZ34170	14.9	64.6	<0.002	0.04	1.26	8.1	1	1.4	324	0.57	<0.05	6.5	0.315	0.49	2.4
ZZ34171	27.6	164.5	<0.002	0.01	3.20	18.9	1	3.1	62.6	0.60	0.08	15.1	0.298	1.15	2.2
ZZ34172	52.0	223	<0.002	0.13	6.70	13.3	2	4.4	88.7	0.89	0.09	19.6	0.236	1.41	3.1



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
LOR		1	0.1	0.1	2	0.5
ZZ34133		73	1.5	29.2	129	151.0
ZZ34134		147	3.0	24.4	224	154.0
ZZ34135		207	3.6	20.8	210	161.0
ZZ34136		164	3.8	18.6	210	197.5
ZZ34137		96	1.1	12.0	68	77.7
ZZ34138		146	1.3	13.1	133	117.0
ZZ34139		74	1.5	16.8	157	115.5
ZZ34140		148	3.0	19.1	157	159.0
ZZ34141		81	1.5	11.9	79	118.0
ZZ34142		105	1.1	13.4	55	76.4
ZZ34143		135	1.3	13.3	57	86.8
ZZ34144		134	1.8	12.4	54	87.5
ZZ34145		121	1.3	9.8	52	73.4
ZZ34146		117	1.3	10.0	60	73.9
ZZ34147		115	1.2	13.1	55	61.1
ZZ34148		113	1.3	10.6	50	63.4
ZZ34149		114	1.2	10.6	60	63.0
ZZ34150		143	1.4	10.7	51	79.1
ZZ34151		146	2.0	18.9	159	129.5
ZZ34152		157	1.3	16.3	139	86.7
ZZ34153		129	1.4	18.2	120	116.0
ZZ34154		151	1.8	15.6	201	106.5
ZZ34155		140	1.5	19.9	140	106.5
ZZ34156		121	1.5	16.5	124	122.5
ZZ34157		106	1.7	18.9	142	125.0
ZZ34158		145	1.8	14.4	131	133.0
ZZ34159		132	1.3	21.6	138	134.5
ZZ34160		131	1.2	17.1	81	102.0
ZZ34161		121	1.3	17.3	98	106.5
ZZ34162		126	1.4	15.9	102	97.6
ZZ34163		129	1.3	15.8	100	87.5
ZZ34164		125	1.5	17.0	146	96.7
ZZ34165		136	1.4	22.0	161	100.0
ZZ34166		133	1.1	18.4	112	82.6
ZZ34167		144	1.0	16.7	143	61.5
ZZ34168		145	1.3	16.9	120	80.7
ZZ34169		125	1.3	17.0	106	85.4
ZZ34170		74	0.8	12.3	53	94.0
ZZ34171		138	1.2	12.2	107	86.3
ZZ34172		101	1.8	10.7	65	98.7



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34173		0.24	0.003	0.11	6.16	12.8	1090	1.63	0.21	1.14	0.07	59.1	12.0	81	3.02	20.6
ZZ34174		0.16	0.002	0.22	5.93	9.9	1010	1.45	0.17	1.32	0.09	55.7	9.0	73	2.67	14.5
ZZ34175		0.23	0.005	0.27	7.51	11.4	1590	2.14	0.22	0.94	0.20	83.8	8.8	97	6.29	35.3
ZZ34176		0.28	0.005	0.37	8.23	21.2	2820	2.85	0.28	0.68	0.25	129.0	8.8	110	8.67	34.9
ZZ34177		0.24	0.009	0.81	7.91	23.1	5270	3.21	0.38	0.17	0.57	82.8	14.3	116	10.35	60.8
ZZ34178		0.22	0.005	0.15	6.43	13.6	1520	1.50	0.19	0.49	0.23	66.3	20.8	314	3.45	39.4
ZZ34179		0.21	0.007	0.38	7.41	18.5	1150	1.49	0.22	0.83	0.23	63.5	18.3	188	4.59	36.8
ZZ34180		0.17	0.006	0.43	7.63	18.7	1170	1.92	0.21	0.60	0.25	100.5	5.6	89	6.38	19.1
ZZ34181		0.11	0.018	0.25	5.36	15.3	900	1.27	0.20	0.27	0.17	114.5	5.8	121	3.73	27.0
ZZ34182		0.14	0.006	0.76	9.57	19.1	1340	2.93	0.28	0.18	0.24	141.5	21.2	109	9.42	38.1
ZZ34183		0.20	0.047	0.84	9.01	61.6	2360	2.74	0.23	0.20	0.05	111.0	2.7	122	6.08	37.0
ZZ34201		0.19	0.004	0.22	6.45	9.7	1020	1.39	0.17	1.28	0.11	58.8	10.1	69	3.27	27.9
ZZ34202		0.11	0.009	0.24	7.25	7.4	1330	2.57	0.27	0.43	0.13	92.6	7.0	75	9.24	66.8
ZZ34203		0.18	<0.001	0.27	6.54	8.6	930	1.49	0.19	1.32	0.13	54.2	9.4	63	3.14	19.4
ZZ34204		0.16	<0.001	0.06	5.49	5.8	1100	1.63	0.15	0.71	0.05	69.6	7.9	67	5.53	26.3
ZZ34205		0.22	0.004	0.08	6.35	9.8	1010	1.46	0.17	1.13	0.08	57.1	10.0	83	3.64	21.7
ZZ34206		0.15	0.002	0.15	5.70	5.5	830	1.07	0.21	1.33	0.17	46.5	5.6	68	2.47	20.6
ZZ34207		0.20	0.005	0.08	6.31	10.4	1200	1.56	0.22	1.02	0.10	74.9	8.6	92	3.93	31.5
ZZ34208		0.25	0.001	0.06	5.64	8.7	1080	1.49	0.18	1.06	0.16	67.2	9.5	77	2.84	26.7
ZZ34209		0.20	0.005	0.08	5.91	9.0	1000	1.40	0.20	1.16	0.16	58.6	8.8	75	3.32	25.9
ZZ34210		0.20	0.002	0.10	5.64	7.7	1110	1.28	0.17	1.35	0.18	60.6	8.3	70	2.38	24.4
ZZ34211		0.27	0.002	0.12	5.97	9.2	1040	1.25	0.18	1.43	0.24	56.7	12.1	74	2.54	22.2
ZZ34212		0.32	0.004	0.35	7.42	14.3	2100	2.82	0.55	0.71	0.28	102.5	10.5	106	7.97	47.6
ZZ34213		0.36	0.006	0.40	7.76	20.5	2110	2.78	0.54	0.54	0.39	112.0	12.0	102	8.17	50.3
ZZ34214		0.27	0.004	0.36	8.64	24.6	2570	3.54	0.70	0.23	0.47	115.5	8.7	62	10.15	35.1
ZZ34215		0.28	0.007	0.68	8.23	29.8	3140	3.09	0.67	0.69	0.61	103.0	12.2	106	8.98	64.1
ZZ34216		0.36	0.012	0.67	8.11	26.0	5310	3.78	0.54	0.26	0.93	109.0	24.5	112	9.62	71.2
ZZ34217		0.23	0.007	0.66	8.01	25.7	3000	3.30	0.52	0.94	1.07	113.5	17.8	123	8.96	55.8
ZZ34218		0.26	0.010	1.03	8.61	39.6	3810	3.47	0.52	0.38	1.68	104.0	14.5	89	12.20	70.7
ZZ34219		0.16	0.008	0.10	7.08	11.2	1100	2.01	0.28	0.73	0.09	77.3	10.2	97	6.83	37.3
ZZ34220		0.18	0.006	0.17	10.00	13.5	1740	4.05	0.47	0.17	0.20	153.5	7.4	138	14.35	40.9
ZZ34221		0.25	0.003	0.56	8.20	23.6	2640	2.80	0.70	0.58	0.28	99.3	13.1	150	6.63	43.7
ZZ34222		0.12	0.004	0.45	7.56	40.0	1990	2.50	0.60	0.83	0.38	97.5	12.2	98	6.77	46.5
ZZ34223		0.13	0.003	0.36	6.67	11.2	1240	1.84	0.24	1.01	0.17	85.5	10.4	104	6.02	35.8
ZZ34224		0.17	0.003	0.40	7.25	8.9	1450	2.03	0.29	1.55	0.18	63.4	7.8	100	8.44	38.2
ZZ34225		0.12	0.004	0.49	6.97	12.2	1150	1.76	0.29	1.10	0.52	75.0	10.7	86	6.84	45.7
ZZ34226		0.12	0.003	0.26	7.85	13.2	1330	2.52	0.29	0.33	0.17	107.5	14.1	143	6.99	38.9
ZZ34227		0.20	0.003	1.03	6.01	14.4	1020	1.53	0.29	0.91	0.48	96.6	8.4	72	4.55	46.4
ZZ34228		0.15	0.001	0.23	7.06	5.0	1130	1.40	0.24	1.02	0.16	61.0	6.5	49	4.02	17.7
ZZ34229		0.17	0.001	0.21	7.02	8.7	1210	1.66	0.18	0.83	0.16	99.1	6.4	51	4.45	16.2



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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	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
ZZ34173		3.44	14.50	0.12	2.0	0.047	1.35	31.2	24.9	0.87	517	1.37	1.35	11.2	33.0	500
ZZ34174		3.03	14.95	0.12	2.1	0.037	1.29	29.3	23.3	0.75	326	1.04	1.51	10.5	21.4	560
ZZ34175		3.25	20.7	0.16	3.2	0.064	2.24	45.7	29.8	0.86	323	2.09	0.99	11.1	28.3	690
ZZ34176		3.41	23.5	0.25	4.1	0.078	2.74	82.0	32.0	1.52	308	3.46	0.85	13.8	53.8	460
ZZ34177		4.71	23.3	0.18	4.6	0.085	2.79	42.2	45.4	1.46	582	5.60	0.38	13.9	56.0	710
ZZ34178		3.99	16.60	0.15	2.7	0.052	1.76	34.6	22.1	2.72	429	1.70	0.73	10.2	291	410
ZZ34179		4.15	18.95	0.13	2.4	0.048	1.86	32.9	28.7	1.74	589	1.38	1.12	9.4	97.8	570
ZZ34180		2.90	21.3	0.15	3.2	0.046	2.59	52.8	22.9	0.58	287	1.93	0.86	9.5	21.2	770
ZZ34181		2.64	15.00	0.31	2.6	0.046	1.66	54.5	15.8	0.44	415	1.44	0.26	6.4	19.9	840
ZZ34182		4.44	25.9	0.24	2.2	0.078	3.94	68.1	28.7	0.88	736	1.14	0.28	8.1	49.0	1120
ZZ34183		2.28	25.9	0.20	3.9	0.090	4.28	53.7	27.6	0.85	101	1.43	0.32	14.2	12.2	240
ZZ34201		2.98	15.75	0.14	2.5	0.042	1.46	31.4	23.1	0.75	371	1.44	1.62	9.3	24.2	430
ZZ34202		2.56	21.5	0.15	3.4	0.058	2.64	49.6	36.0	0.71	280	3.24	0.55	8.8	28.8	590
ZZ34203		2.85	17.15	0.15	2.5	0.031	1.43	29.0	26.3	0.69	383	1.60	1.71	10.1	20.5	320
ZZ34204		1.95	14.45	0.14	3.1	0.043	1.80	38.2	21.7	0.57	256	1.05	0.83	9.2	16.6	380
ZZ34205		3.22	15.90	0.12	2.4	0.044	1.47	30.9	23.6	0.81	357	1.74	1.33	10.2	26.7	370
ZZ34206		2.44	15.10	0.18	2.4	0.045	1.21	23.9	15.7	0.56	280	1.13	1.53	9.8	14.7	1050
ZZ34207		2.90	15.80	0.22	2.3	0.056	1.56	38.8	25.1	0.73	346	1.14	1.15	11.6	27.0	490
ZZ34208		2.67	13.75	0.21	2.1	0.048	1.39	34.2	20.9	0.64	367	1.12	1.20	11.3	24.5	550
ZZ34209		2.93	14.60	0.18	2.2	0.047	1.38	30.2	22.3	0.71	366	1.33	1.22	10.8	24.3	560
ZZ34210		2.69	13.45	0.22	2.0	0.044	1.29	31.7	21.1	0.77	357	0.91	1.38	10.4	25.1	670
ZZ34211		3.17	14.50	0.19	2.4	0.046	1.25	29.1	21.0	0.74	555	1.52	1.48	10.0	22.8	620
ZZ34212		2.97	22.4	0.27	4.0	0.088	3.05	52.5	32.1	1.20	305	1.66	0.68	12.4	40.0	530
ZZ34213		3.27	23.1	0.28	4.3	0.089	3.08	57.2	34.9	1.06	381	2.72	0.54	12.7	42.1	600
ZZ34214		3.34	26.7	0.30	5.2	0.107	4.34	56.4	34.5	1.05	352	1.97	0.56	13.1	29.6	530
ZZ34215		3.72	24.8	0.29	5.2	0.091	3.29	53.6	36.9	1.57	478	11.30	0.55	12.4	52.5	680
ZZ34216		4.20	25.2	0.27	4.8	0.115	3.09	45.1	43.8	1.27	732	5.20	0.42	16.0	79.5	470
ZZ34217		3.56	25.1	0.33	5.3	0.097	3.38	58.6	38.6	1.48	884	8.10	0.55	13.3	53.6	800
ZZ34218		4.33	26.7	0.29	6.0	0.108	3.77	52.0	55.2	1.27	406	17.20	0.26	14.8	52.3	990
ZZ34219		2.47	18.65	0.24	2.8	0.062	2.34	40.7	29.6	0.66	247	1.42	0.83	11.3	26.1	320
ZZ34220		1.95	32.8	0.39	5.4	0.121	4.79	80.9	52.8	0.72	142	2.04	0.17	18.4	30.3	510
ZZ34221		3.51	25.2	0.18	5.3	0.087	3.34	51.1	30.5	1.62	373	3.37	0.54	13.4	49.3	440
ZZ34222		3.32	21.1	0.25	3.2	0.074	2.95	50.2	26.9	0.86	365	1.95	0.61	9.7	45.1	680
ZZ34223		2.95	16.80	0.26	2.7	0.066	2.00	43.8	28.3	0.75	368	1.35	0.92	10.6	33.9	600
ZZ34224		2.52	19.35	0.24	2.5	0.064	2.46	33.2	30.9	0.75	297	1.21	0.55	8.6	32.8	770
ZZ34225		2.76	18.60	0.24	2.7	0.060	1.92	39.6	32.5	0.61	457	1.46	0.90	8.8	30.1	720
ZZ34226		3.99	22.7	0.17	4.2	0.073	2.85	55.5	35.2	1.15	400	3.31	0.53	11.5	62.1	880
ZZ34227		2.40	17.80	0.29	3.4	0.061	1.60	52.8	19.6	0.56	481	2.18	0.81	9.8	26.9	690
ZZ34228		2.31	20.0	0.23	3.1	0.057	1.86	32.4	21.9	0.56	321	1.48	1.21	11.0	13.9	570
ZZ34229		2.44	19.10	0.29	3.3	0.071	1.76	50.1	22.7	0.58	239	1.24	0.99	13.0	25.9	670



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
ZZ34173		15.9	65.9	<0.002	0.01	1.29	11.4	2	1.8	193.5	0.88	<0.05	10.3	0.387	0.55	2.6
ZZ34174		14.2	56.7	<0.002	0.02	0.87	9.8	1	1.7	232	0.77	0.06	7.6	0.393	0.52	2.2
ZZ34175		44.0	126.0	<0.002	0.02	2.31	14.9	2	2.3	175.0	0.79	0.12	12.3	0.393	0.78	3.5
ZZ34176		41.6	130.5	<0.002	0.05	3.25	14.8	3	3.1	153.5	1.00	0.05	17.9	0.331	1.40	3.8
ZZ34177		245	137.0	<0.002	0.24	3.58	17.3	4	3.1	77.3	0.97	0.16	15.5	0.336	1.10	3.7
ZZ34178		25.5	105.5	<0.002	0.06	3.09	13.0	2	2.3	99.6	0.76	<0.05	10.3	0.297	0.75	3.0
ZZ34179		25.9	93.3	<0.002	0.02	2.10	14.6	2	2.3	163.0	0.66	<0.05	11.2	0.367	0.62	3.2
ZZ34180		24.4	133.0	0.002	0.02	1.65	11.4	1	2.4	264	0.67	<0.05	13.0	0.315	0.79	2.6
ZZ34181		28.2	80.0	<0.002	0.01	2.15	9.8	2	1.7	85.3	0.44	<0.05	15.1	0.183	0.50	2.9
ZZ34182		41.6	174.5	<0.002	0.04	2.03	18.7	2	3.0	83.7	0.51	<0.05	22.4	0.201	1.02	5.1
ZZ34183		37.8	207	<0.002	0.01	6.73	14.4	3	4.2	53.7	0.96	<0.05	19.2	0.259	1.33	4.0
ZZ34201		14.6	65.3	<0.002	0.01	1.06	10.7	2	1.5	272	0.67	<0.05	8.3	0.361	0.48	2.6
ZZ34202		24.5	144.0	<0.002	0.01	1.72	14.3	2	2.3	162.0	0.60	0.15	9.9	0.307	0.88	3.5
ZZ34203		15.5	64.3	<0.002	0.01	1.04	8.9	2	1.6	284	0.75	<0.05	7.0	0.402	0.49	2.2
ZZ34204		16.4	90.6	<0.002	<0.01	1.62	11.1	2	1.6	161.5	0.67	0.07	9.3	0.341	0.53	2.7
ZZ34205		16.4	71.5	<0.002	0.01	1.27	11.8	1	1.7	210	0.73	0.06	7.8	0.405	0.53	2.3
ZZ34206		13.2	54.2	<0.002	0.02	0.70	9.4	1	1.4	266	0.72	<0.05	7.2	0.415	0.43	2.3
ZZ34207		25.3	79.8	<0.002	0.01	1.42	13.2	1	1.7	190.5	0.84	<0.05	11.3	0.403	0.57	3.0
ZZ34208		16.8	66.6	<0.002	0.01	1.32	10.9	1	1.4	199.0	0.84	0.07	10.0	0.408	0.44	2.4
ZZ34209		16.9	70.2	<0.002	0.01	1.32	10.9	1	1.6	207	0.83	0.05	9.5	0.381	0.47	2.2
ZZ34210		12.6	58.7	<0.002	0.01	1.19	10.9	1	1.4	228	0.78	<0.05	9.8	0.385	0.42	2.3
ZZ34211		13.7	59.3	<0.002	0.01	1.16	10.7	1	1.4	255	0.74	0.07	8.2	0.395	0.45	2.3
ZZ34212		40.2	145.0	<0.002	0.03	2.22	16.0	2	2.9	112.0	0.90	0.07	20.1	0.304	0.92	4.8
ZZ34213		48.0	154.0	<0.002	0.05	2.71	16.0	3	2.9	99.8	0.90	0.13	21.6	0.306	0.97	5.7
ZZ34214		60.2	177.5	<0.002	0.06	2.94	15.2	2	3.7	61.3	0.95	0.10	23.0	0.227	1.08	5.0
ZZ34215		49.0	141.0	0.002	0.10	4.25	17.7	5	3.0	144.0	0.90	0.12	19.8	0.265	1.35	8.3
ZZ34216		70.8	139.0	0.002	0.04	3.78	18.0	4	3.4	82.8	1.16	0.14	23.3	0.294	1.37	6.5
ZZ34217		35.4	147.0	<0.002	0.11	4.04	18.5	4	3.2	112.0	0.98	0.07	22.0	0.284	1.37	5.8
ZZ34218		75.9	149.5	0.004	0.13	6.75	17.9	9	3.5	80.8	1.04	0.08	22.4	0.278	1.58	7.1
ZZ34219		21.0	124.5	<0.002	0.01	1.88	13.7	1	1.9	157.5	0.81	0.07	12.5	0.379	0.69	3.2
ZZ34220		49.6	243	<0.002	0.01	3.64	23.5	3	3.4	91.8	1.29	0.15	22.6	0.550	1.32	5.8
ZZ34221		59.4	169.0	<0.002	0.07	5.00	18.5	3	4.0	83.8	0.92	0.10	20.2	0.290	1.28	4.6
ZZ34222		40.8	151.0	0.002	0.08	4.12	14.1	2	2.8	132.5	0.69	0.09	19.9	0.247	0.88	4.8
ZZ34223		29.2	108.0	<0.002	0.02	1.61	13.2	2	1.8	175.5	0.81	0.06	14.3	0.365	0.60	4.6
ZZ34224		33.3	141.5	<0.002	0.10	1.67	13.3	2	2.2	160.5	0.61	0.09	12.6	0.275	0.76	4.1
ZZ34225		51.1	112.5	<0.002	0.06	1.34	12.9	2	1.8	198.0	0.63	0.07	12.7	0.298	0.68	6.3
ZZ34226		25.7	159.5	<0.002	0.06	2.12	14.0	1	2.9	79.4	0.80	0.14	15.5	0.288	0.84	3.2
ZZ34227		31.7	94.7	<0.002	0.04	2.20	10.4	2	2.1	172.0	0.76	0.05	18.0	0.277	0.64	6.8
ZZ34228		22.3	89.8	<0.002	0.01	1.33	9.2	1	2.3	221	0.85	<0.05	10.4	0.332	0.70	2.4
ZZ34229		28.5	98.1	<0.002	0.01	1.49	9.4	2	2.3	159.0	1.02	0.05	15.9	0.295	0.69	2.8

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Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
ZZ34173		127	1.4	14.4	73	66.8
ZZ34174		116	1.1	12.6	54	71.2
ZZ34175		161	1.2	15.8	80	105.5
ZZ34176		143	2.6	30.9	133	136.5
ZZ34177		193	2.5	14.8	221	166.0
ZZ34178		116	1.6	15.8	146	83.5
ZZ34179		121	1.1	14.0	125	76.0
ZZ34180		88	1.9	10.0	75	107.0
ZZ34181		62	2.0	9.9	62	85.6
ZZ34182		106	1.4	13.6	128	74.5
ZZ34183		92	2.1	10.2	55	115.0
ZZ34201		110	1.0	14.7	58	82.3
ZZ34202		158	1.0	11.2	66	122.5
ZZ34203		110	1.0	11.8	64	87.0
ZZ34204		115	1.0	13.9	38	86.9
ZZ34205		133	1.9	12.6	59	76.8
ZZ34206		96	1.0	12.1	38	77.3
ZZ34207		126	1.3	19.4	61	74.9
ZZ34208		115	1.1	16.8	61	74.2
ZZ34209		120	1.7	13.7	63	72.4
ZZ34210		113	1.1	16.5	66	61.2
ZZ34211		111	1.1	14.2	64	64.1
ZZ34212		117	1.7	20.2	110	124.5
ZZ34213		124	1.8	20.3	124	133.5
ZZ34214		84	1.6	21.8	147	168.5
ZZ34215		148	3.3	27.2	142	167.0
ZZ34216		159	2.9	27.5	244	164.0
ZZ34217		153	3.1	26.0	147	162.5
ZZ34218		203	4.9	26.1	265	192.5
ZZ34219		137	1.3	14.4	50	90.2
ZZ34220		244	2.5	15.0	48	186.5
ZZ34221		129	2.2	16.3	124	160.5
ZZ34222		106	1.7	13.2	132	99.6
ZZ34223		125	1.2	15.5	74	84.9
ZZ34224		125	1.2	10.9	75	83.9
ZZ34225		112	1.4	22.0	80	87.3
ZZ34226		122	1.3	11.4	103	113.0
ZZ34227		79	1.0	28.6	71	98.9
ZZ34228		87	1.5	9.7	72	97.4
ZZ34229		84	1.3	18.1	89	99.6



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Sample Description	Method	WEI-21	Au-ICP21	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.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR															
ZZ34230		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ34231		0.24	0.003	0.10	6.33	10.7	990	1.62	0.23	1.06	0.08	62.7	10.2	77	3.71	29.5
ZZ34232		0.21	0.001	0.13	6.83	11.0	980	1.57	0.21	1.19	0.11	57.9	10.8	73	3.53	32.1
ZZ34233		0.25	<0.001	0.15	5.66	9.7	1070	1.56	0.22	1.24	0.31	68.5	12.4	79	3.33	42.1
ZZ34234		0.20	0.002	0.09	5.64	9.5	1010	1.46	0.20	1.19	0.16	58.6	10.4	77	3.11	26.9
ZZ34234		0.20	0.026	0.06	6.19	9.8	980	1.90	0.23	0.80	0.13	66.0	12.8	91	5.07	42.7
ZZ34235		0.25	0.005	0.06	6.49	7.5	1160	2.20	0.27	0.49	0.14	90.3	9.4	86	6.96	33.8
ZZ34236		0.11	0.002	0.79	8.30	8.9	940	2.47	0.36	0.39	0.45	115.5	9.7	81	8.01	37.1
ZZ34237		0.19	0.007	0.10	5.48	9.8	810	1.23	0.22	1.13	0.08	53.5	8.3	78	2.76	17.2
ZZ34238		0.24	0.023	0.05	8.35	10.0	1090	2.79	0.36	0.19	0.10	95.8	7.3	116	12.00	42.8
ZZ34239		0.22	0.014	0.10	7.50	11.1	880	2.16	0.30	0.71	0.13	75.1	6.6	83	7.46	35.9
ZZ34240		0.24	0.003	0.14	6.59	5.8	950	1.37	0.19	1.59	0.17	46.9	8.7	51	2.70	22.9
ZZ34241		0.28	0.003	0.15	5.93	8.4	890	1.22	0.16	1.04	0.11	52.8	9.5	73	3.71	22.5
ZZ34242		0.23	0.005	0.06	6.23	10.6	1100	1.48	0.16	0.96	0.08	60.2	9.8	83	4.46	32.0
ZZ34243		0.23	0.006	0.12	5.96	12.6	1010	1.53	0.20	0.97	0.14	62.8	8.2	96	4.54	32.4
ZZ34244		0.22	0.004	0.13	6.27	12.0	960	1.43	0.20	1.09	0.17	55.6	9.4	92	4.45	28.1
ZZ34245		0.26	0.004	0.13	5.88	10.9	950	1.28	0.16	1.15	0.21	51.3	9.3	76	3.17	29.2
ZZ34246		0.25	0.004	0.15	5.73	7.0	980	1.18	0.16	1.25	0.23	51.0	8.4	67	2.84	29.1
ZZ34247		0.32	0.004	0.11	6.10	8.3	1080	1.24	0.15	1.38	0.28	57.2	10.4	81	2.69	27.9

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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	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
ZZ34230		2.96	15.50	0.25	2.4	0.056	1.41	32.3	25.0	0.74	334	1.16	1.31	11.2	25.3	320
ZZ34231		3.07	16.15	0.22	2.3	0.051	1.46	30.0	26.2	0.69	328	1.51	1.49	9.9	24.0	270
ZZ34232		2.90	14.00	0.24	2.1	0.052	1.38	35.5	23.9	0.73	550	1.38	1.12	9.7	30.3	820
ZZ34233		2.85	13.65	0.22	2.2	0.044	1.40	30.0	23.5	0.73	349	1.17	1.15	10.1	27.1	620
ZZ34234		2.90	17.00	0.24	2.7	0.064	1.90	34.6	30.1	0.70	307	1.70	0.87	11.3	28.9	360
ZZ34235		2.52	19.05	0.28	3.0	0.064	2.28	48.3	32.2	0.64	241	1.07	0.62	11.5	32.0	330
ZZ34236		4.17	24.1	0.25	2.9	0.102	2.73	56.8	33.1	0.86	412	2.34	0.66	11.0	29.4	790
ZZ34237		2.78	15.15	0.25	2.1	0.045	1.27	27.4	24.0	0.68	347	1.28	1.24	11.4	20.3	280
ZZ34238		2.99	24.2	0.26	3.8	0.084	3.34	51.0	42.1	0.73	182	1.48	0.29	12.1	31.8	450
ZZ34239		3.06	20.6	0.22	2.9	0.067	2.42	38.4	31.9	0.69	252	1.55	0.89	10.9	29.2	390
ZZ34240		2.78	18.00	0.17	2.8	0.039	1.66	23.9	25.2	0.64	433	1.58	2.02	10.3	14.3	590
ZZ34241		2.70	15.05	0.13	2.2	0.045	1.36	27.2	20.9	0.64	304	1.13	1.24	9.9	21.0	290
ZZ34242		2.75	15.55	0.17	2.1	0.051	1.68	30.8	22.1	0.70	310	1.09	1.11	9.1	24.6	560
ZZ34243		2.83	15.85	0.16	2.3	0.050	1.36	31.6	21.4	0.64	299	1.43	1.06	9.6	20.8	540
ZZ34244		2.84	17.35	0.18	2.4	0.054	1.52	28.4	23.6	0.73	333	1.46	1.14	10.6	23.8	510
ZZ34245		2.90	15.10	0.15	2.1	0.045	1.37	25.8	19.8	0.67	365	1.35	1.25	10.0	24.1	670
ZZ34246		2.52	13.95	0.15	2.0	0.044	1.26	26.0	19.2	0.64	288	1.05	1.30	8.9	23.4	640
ZZ34247		3.01	14.90	0.17	2.0	0.043	1.32	28.7	20.6	0.79	407	1.01	1.40	10.2	27.6	690

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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1
ZZ34230		16.0	72.9	<0.002	0.01	1.20	11.6	1	1.8	203	0.82	<0.05	10.6	0.381	0.59	2.6
ZZ34231		16.9	71.3	<0.002	0.01	1.33	10.3	1	1.5	263	0.73	0.06	9.8	0.369	0.53	2.3
ZZ34232		14.9	68.3	<0.002	0.01	1.62	11.6	1	1.5	193.0	0.73	<0.05	10.4	0.352	0.48	2.6
ZZ34233		12.7	68.9	<0.002	0.01	1.52	10.7	1	1.4	196.0	0.77	<0.05	8.8	0.364	0.46	2.1
ZZ34234		15.3	101.5	<0.002	0.01	2.07	12.8	1	1.8	152.5	0.84	0.08	10.7	0.370	0.63	2.9
ZZ34235		37.8	131.0	<0.002	0.01	1.90	13.6	1	2.1	115.5	0.81	0.06	14.1	0.345	0.71	3.3
ZZ34236		543	161.5	<0.002	0.09	2.80	15.4	1	2.7	90.1	0.78	0.08	17.4	0.327	0.96	2.7
ZZ34237		15.5	62.4	<0.002	0.01	1.07	10.1	1	1.6	194.5	0.83	0.06	8.4	0.427	0.51	2.3
ZZ34238		50.9	189.0	<0.002	0.01	2.92	17.3	2	2.7	72.9	0.86	0.10	15.0	0.382	0.96	3.4
ZZ34239		16.5	137.0	<0.002	0.01	1.90	13.8	1	2.3	156.0	0.79	0.06	12.5	0.367	0.70	2.7
ZZ34240		15.1	60.2	0.002	0.02	1.10	8.4	1	1.5	378	0.71	<0.05	6.2	0.397	0.47	2.3
ZZ34241		15.0	67.7	<0.002	0.01	1.20	9.7	1	1.5	204	0.72	0.05	8.1	0.362	0.50	2.3
ZZ34242		24.3	79.8	<0.002	0.01	1.56	11.2	1	1.5	195.0	0.67	0.05	9.8	0.326	0.53	2.5
ZZ34243		20.7	71.2	<0.002	0.01	1.60	11.5	1	1.5	182.5	0.69	0.07	9.4	0.358	0.52	2.9
ZZ34244		23.4	86.8	<0.002	0.01	1.74	12.4	1	1.7	202	0.77	0.06	8.7	0.383	0.56	2.6
ZZ34245		15.5	68.1	<0.002	0.01	1.44	10.6	1	1.4	217	0.81	0.07	8.5	0.361	0.50	2.3
ZZ34246		14.1	62.1	<0.002	0.01	1.20	10.0	1	1.2	224	0.65	0.05	8.6	0.325	0.44	2.3
ZZ34247		13.7	61.3	<0.002	0.01	1.23	11.8	1	1.4	235	0.76	<0.05	9.1	0.390	0.46	2.3



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
ZZ34230		118	1.3	14.6	53	61.0
ZZ34231		111	1.1	12.4	54	74.0
ZZ34232		120	1.5	18.9	69	65.9
ZZ34233		120	1.0	13.5	64	66.7
ZZ34234		138	1.2	12.3	58	85.4
ZZ34235		135	1.5	14.2	77	93.2
ZZ34236		128	1.2	9.3	287	93.7
ZZ34237		128	1.2	11.5	52	65.4
ZZ34238		156	1.6	12.9	55	123.0
ZZ34239		124	1.3	10.5	53	90.4
ZZ34240		97	1.2	10.6	70	107.5
ZZ34241		110	1.0	10.4	46	78.5
ZZ34242		115	1.1	12.1	50	71.6
ZZ34243		119	1.0	13.5	45	79.1
ZZ34244		123	1.1	12.9	54	85.2
ZZ34245		110	1.0	12.5	61	73.7
ZZ34246		101	2.4	13.3	56	71.6
ZZ34247		116	1.3	16.1	68	68.6

APPENDIX IV
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Property: Magnum

Sample Number: M400943 UTM: 523062 mE Nad83, Zone 7
Elevation: 601 m UTM: 7146859 mN

Comments: Sample from 40 by 30 by 20 cm quartz vein. Limonite fractures and cubic pyrite replacement. Mineralized with pyrite, sphalerite and galena. Muscovite and limonite contribute to the rock looking 'grungy.'

Sample Number: M400946 UTM: 524052 mE Nad83, Zone 7
Elevation: 310 m UTM: 7147292 mN

Comments: Specimen sample of quartz vein with limonite and relict pyrite casts. Sample was 20 by 20 cm below outcrop of quartz-muscovite schist with thick quartz bands.

Sample Number: M400947 UTM: 524219 mE Nad83, Zone 7
Elevation: 315 m UTM: 7147692 mN

Comments: 2.5m rep sample of brecciated fault contact. Limonite orange oxidized surface and interior - possibly listwanite alteration. Breccia clasts of angular chlorite-rich material and quartz

Sample Number: M400948 UTM: 524205 mE Nad83, Zone 7
Elevation: 336 m UTM: 7147704 mN

Comments: A 70 cm chip sample across the same horizon as M400947, which is a brecciated fault contact. Limonite orange oxidized surface and interior - possibly listwanite alteration. Breccia clasts of angular chlorite-rich material and quartz. Silicified clasts and fine grey sulphides increase in this sample vs. M400948

Sample Number: M400949 UTM: 524077 mE Nad83, Zone 7
Elevation: 539 m UTM: 7148205 mN

Comments: Composite grab sample up felsenmeener/soil slope. Hematite-limonite rich mudstone with finely disseminated sulphide (sphalerite?). Small (<2mm) calcite floods.

Sample Number: M400950 UTM: 524070 mE Nad83, Zone 7
Elevation: 547 m UTM: 7148208 mN

Comments: Float sample from steep, hard to stand on soil/felsenmeener slope. Fine, crystalline, calcareous rock, non-magnetic, no bisible sulphides. Calcite veinlets less than 2 mm.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813401 UTM: 524051 mE Nad83, Zone 7

Elevation: 557 m UTM: 7148207 mN

Comments: Specimen of fine crystalline, calcareous grit - dirty limestone. Marble patches throughout. Abundant cross-cutting calcite veinlets. Limonite surfaces and fracture coatings.

Sample Number: N813402 UTM: 524043 mE Nad83, Zone 7

Elevation: 561 m UTM: 7148206 mN

Comments: Specimen from soil/felsenmeener slope. Quartz-calcium carbonate-barite with limonite pits and dark grey weathering surface.

Sample Number: N813403 UTM: 524027 mE Nad83, Zone 7

Elevation: 562 m UTM: 7148187 mN

Comments: A 70 cm chip sample across chert-like unit. Inclusions of chlorite and quartz. Very chalcedonic, grey in colour with powdery matte (dull) grey surface coatings and cross-cutting calcite veinlets.

Sample Number: N813404 UTM: 524046 mE Nad83, Zone 7

Elevation: 373 m UTM: 7147743 mN

Comments: Specimen sample of orange, listwanite-altered peridotite (?) with chalcedonic-epithermal veining and fine black sulphides disseminated throughout.

Sample Number: N813405 UTM: 524029 mE Nad83, Zone 7

Elevation: 407 m UTM: 7147757 mN

Comments: Specimen sample 20x6x15 cm blocky, quartz-rich, pale to bright green (chromium?) listwanite altered peridotite (?). Weakly to moderately disseminated with mm-sized sphalerite crystals. Some of the sphalerite form foliation-like likes. Silvery sulphide trace (not tetrahedrite). Specimen from exposed soil slope.

Sample Number: N813406 UTM: 523507 mE Nad83, Zone 7

Elevation: 611 m UTM: 7147563 mN

Comments: A 3.10 m chip sample across orange-purple oxidized, tan silicified mudstone. Nicely formed barite crystals throughout (<2 mm).

Rock Sample DescriptionsProperty: Magnum

Sample Number: N813407 UTM: 523593 mE Nad83, Zone 7
Elevation: 585 m UTM: 7147567 mN

Comments: Specimen sample - abundant over 20 m area on ridge crest. Sample was 30 x 20 x 16 cm. Bull white quartz with 35% ankerite (coarse iron carbonate crystals). Limonite pockets and weathering surfaces. Mineralized with <1% coarse cubic pyrite and 3 cm mass of very fine arsenopyrite (and cubic galena?). Arsenopyrite forms fine masses and stringers throughout quartz. Chalcopyrite stringers also (ratio of arsenopyrite to chalcopyrite would be 5:1).

Sample Number: N813408 UTM: 523592 mE Nad83, Zone 7
Elevation: 585 m UTM: 7147567 mN

Comments: Specimen sample from same area as N813407. Sample is 12 by 18 by 30 cm. Medium grey siliceous material with white quartz clasts and abundant pyrite pits. Angular fractures and limonite patches. Rusty weathering surface. Slightly punky looking.

Sample Number: N813409 UTM: 523598 mE Nad83, Zone 7
Elevation: 581 m UTM: 7147564 mN

Comments: Small (10 by 10 cm) specimen of slightly brecciated grey quartz. Fine grey sulphides (fine galena?) disseminated throughout.

Sample Number: N813410 UTM: 523538 mE Nad83, Zone 7
Elevation: 584 m UTM: 7147540 mN

Comments: 40 cm chip sample of white, massive quartz vein. 180/75 W. Hosted in interbedded quartz muscovist schist and phyllite. Quartz has limonite pits and stringers.

Sample Number: N813411 UTM: 523523 mE Nad83, Zone 7
Elevation: 589 m UTM: 7147530 mN

Comments: Float sample of mineralized quartz vein with limonite, ankerite and finely disseminated arsenopyrite. Sample was 30 cm cubed.

Sample Number: N813412 UTM: 523715 mE Nad83, Zone 7
Elevation: 444 m UTM: 7147272 mN

Comments: Specimen sample 10 by 6 by 12 cm. Foliation parallel micro fractures/veinlets with limonite and sphalerite (six veinlets per three centimetres). Host rock is very fine phyllite with rare pyrite pits on weathering surface. Silicified.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813413 UTM: 523785 mE Nad83, Zone 7
Elevation: 434 m UTM: 7147296 mN

Comments: A 6 by 8 by 20 cm specimen sample. Quartz-rich with brecciated calcite clasts within limonite-filled cross-cutting veinlets and fracture fillings. Possibly disseminated 'black jack' sphalerite.

Sample Number: N813414 UTM: 523827 mE Nad83, Zone 7
Elevation: 401 m UTM: 7147289 mN

Comments: Composite chip sample of hematite-rich breccias, massive earthy hematite pieces up to 5 cm squared. Pale to dark red earthy hematite. Most pieces have brecciated flow textures with quartz clasts suspended above sub-rounded clasts of dark red hematite.

Sample Number: N813415 UTM: 523827 mE Nad83, Zone 7
Elevation: m UTM: 7147289 mN

Comments: Specimen sample of 28 by 13 by 6 cm. Ankerite cemented breccia with < 1 cm angular clasts of chalcedonic pale pink quartz with fine grained sulphide and dark grey chalcedonic clasts. Goethite cemented limonite patches (<2 cm). No rep, but macro-zoom picture.

Sample Number: N813416 UTM: 523495 mE Nad83, Zone 7
Elevation: 523 m UTM: 7147333 mN

Comments: Specimen sample above GPS coordinate for soil ZZ47266. Sample was 20 by 6 by 15 cm. Quartz-rich, limonite coated banded sulphide-rich horizon. Sulphides comprise fine magnetite, arsenopyrite, pyrite and sphalerite. Sulphide make up approximately 5%.

Sample Number: N813417 UTM: 523497 mE Nad83, Zone 7
Elevation: 511 m UTM: 7147324 mN

Comments: Grab sample. Limonite, scorodite, goethite weathered, laminated/banded fine grained massive magnetite with cubic pyrite +- fine grained arseno. Bands of white quartz.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813418 UTM: 523499 mE Nad83, Zone 7

Elevation: 512 m UTM: 7147315 mN

Comments: Intense limonite and magnetite weathered low energy, clastic sed with cubic pyrite pits

Sample Number: N813419 UTM: 523493 mE Nad83, Zone 7

Elevation: 517 m UTM: 7147344 mN

Comments: Specimen sample - 15 cm cubed. Rough, punky, limonite with goethite bands and disseminated pyrite blebs (<4mm). From below very steep outcrop of muscovite schist with large rusty horizon on cliff face above.

Sample Number: N813420 UTM: 523460 mE Nad83, Zone 7

Elevation: 527 m UTM: 7147333 mN

Comments: Specimen sample of 6 by 14 by 30 cm, limonite weathering surface on boudinaged quartz lenses (8 mm tall) with layers of fine pyrite and arsenopyrite.

Sample Number: N813421 UTM: 523443 mE Nad83, Zone 7

Elevation: 535 m UTM: 7147313 mN

Comments: Specimen sample of massive magnetite. Sample is 40 by 20 by 10 cm. Fine laminations and coarse pyrite throughout.

Sample Number: N813422 UTM: 523476 mE Nad83, Zone 7

Elevation: 480 m UTM: 7147169 mN

Comments: Float down slope (~200 m) from MZ 3. Dark grey/black, very fine grained, clastic sed origin with 10% fine grained disseminated pyrite, concentrated around quartz eyes/or lenses

Sample Number: N813423 UTM: 524511 mE Nad83, Zone 7

Elevation: 597 m UTM: 7148996 mN

Comments: Chip sample over 40 cm of orange weathering chert. Fine cross-cutting veinlets throughout. Rare limonite pits on fractures.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813424 UTM: 524423 mE Nad83, Zone 7
Elevation: 630 m UTM: 7149033 mN

Comments: Specimen sample from historical hand trench (?). Banded chert with dark red bands and muscovite on fractures.

Sample Number: N813425 UTM: 524177 mE Nad83, Zone 7
Elevation: 642 m UTM: 7148853 mN

Comments: Composite chip sample from two metre square area. Quartz-flooded/stockworked within green to brown fine grained metasediment. Trace disseminated arsenopyrite with black rims and limonite. From a large area of phyllite talus.

Sample Number: N813426 UTM: 524183 mE Nad83, Zone 7
Elevation: 641 m UTM: 7148859 mN

Comments: Breccia hosted in chlorite altered phyllite. ~ 6-8 cm true thickness, clasts are quartz rich-0.2 -2.0 cm angular, matrix supported (chlorite rich). Limonite stained.

Sample Number: N813427 UTM: 524054 mE Nad83, Zone 7
Elevation: 577 m UTM: 7148349 mN

Comments: Composite chip sample of soil pit follow up of ZZ47576. Rocks are med to dark grey aphanitic argillite with quartz veining <10%. Quartz veins are limonite stained with vugs present. Float alone around sample site is graphitic argillite.

Sample Number: N813428 UTM: 524028 mE Nad83, Zone 7
Elevation: 554 m UTM: 7148213 mN

Comments: At top of soil/cree slope. Ankerite and limonite flooded, highly fractured quartz vein. Sample is composite grab sample over five metres (10 pieces). Pitted, punky dull grey sulphide - after arsenopyrite?

Sample Number: N813429 UTM: 524047 mE Nad83, Zone 7
Elevation: 545 m UTM: 7148240 mN

Comments: Hand trench dug 60 cm deep, just 4 m uphill from ZZ47760. Rock chips in soil. Graphitic? Argillite. Dark grey, aphanitic 1-2mm spaced laminations of limonite interbedded. At soil site, same rock type.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813430 UTM: 524454 mE Nad83, Zone 7
Elevation: 338 m UTM: 7148009 mN

Comments: Rock samples from soil pit dug at ZZ47751. Graphitic argillite with one, two-fist sized grey, translucent massive quartz rock with ~15 %, three limonite blebs 1.5-2cm in size. 10 m to the North is calcareous grit outcrop.

Sample Number: N813431 UTM: 523128 mE Nad83, Zone 7
Elevation: 542 m UTM: 7146755 mN

Comments: Magnetite horizon. Dark grey, fine grained magnetite with limonite stained laminations and hematite alteration.

Sample Number: N813432 UTM: 523161 mE Nad83, Zone 7
Elevation: 569 m UTM: 7147056 mN

Comments: 20 cm vertical thick chip sample, possible Fe horizon - fine grained, heavy, non magnetic sulphide. Top 6 cm siliceous.

Sample Number: N813433 UTM: 521584 mE Nad83, Zone 7
Elevation: 523 m UTM: 7146376 mN

Comments: Hand pit float. White, glassy quartz float with limonite and goethite altered 0.5 cm sulphide stringer. Also, white chalky alteration mineral adjacent to limonite. Host rock is biotite-chlorite schist

Sample Number: N813434 UTM: 521448 mE Nad83, Zone 7
Elevation: 726 m UTM: 7146918 mN

Comments: Hand pit float. Sericite-quartz schist with limonite and goethite laminations.

Sample Number: N813435 UTM: 521448 mE Nad83, Zone 7
Elevation: 728 m UTM: 7146917 mN

Comments: Hand pit float. Heavy, goethite rich stained rock, could not get fresh surface. Appears quartz rich, but too heavy.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813436 UTM: 520640 mE Nad83, Zone 7
Elevation: 706 m UTM: 7145450 mN

Comments: Subangular quartz rich schist with foliation defined by thin limonite and hematite bands with possible sulphide present. Taken from soil pit BB28477, located on moderately dipping slope with deadfall/moss ground cover.

Sample Number: N813437 UTM: 520590 mE Nad83, Zone 7
Elevation: 711 m UTM: 7145270 mN

Comments: Sheared blue and orange banded schist (?). Orange bands are limonite and hematite where blue bands are very soft. Taken from soil pit BB28475, located on shallowly dipping slope with moderate tree cover and mossy ground.

Sample Number: N813438 UTM: 520340 mE Nad83, Zone 7
Elevation: 721 m UTM: 7145160 mN

Comments: Sheared blue and orange banded schist (?). Orange bands are limonite and hematite where blue bands are very soft. Taken from soil pit BB28470, located on moderately dipping slope with moderate tree cover and grassy ground.

Sample Number: N813439 UTM: 520476 mE Nad83, Zone 7
Elevation: 426 m UTM: 7145880 mN

Comments: Grab sample of float obtained on old cat track/trail. Folded, quartz rich schist with limonite banding and pitting (+/- hematite).

Sample Number: N813440 UTM: 520507 mE Nad83, Zone 7
Elevation: 426 m UTM: 7145845 mN

Comments: Grab sample of float obtained on old cat track/trail. Folded phyllite (?). No rep but photo obtained of sample.

Sample Number: N813441 UTM: 520512 mE Nad83, Zone 7
Elevation: 418 m UTM: 7145718 mN

Comments: Grab sample of float obtained on old cat track/trail. Folded, quartz rich schist with limonite banding (+/- hematite) and sphalerite/pyrite crystals.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813442 UTM: 521406 mE Nad83, Zone 7

Elevation: 443 m UTM: 7145971 mN

Comments: Grab sample form creek that drains beside Camp 2. Creek is flowing, 30 cm wide. Limonite, scorodite, goethite altered schist (?), evidence of foliation and sulphide pits present at <1-2.5 mm present. Rep taken.

Sample Number: N813443 UTM: 521039 mE Nad83, Zone 7

Elevation: 548 m UTM: 7146063 mN

Comments: Hand pit sample. 40 cm deep. Limonite pitted, quartz-biotite schist. Rep taken

Sample Number: N813444 UTM: 521087 mE Nad83, Zone 7

Elevation: 511 m UTM: 7146154 mN

Comments: Creek float. Brecciated argillite (?). Aphanitic, shiny, dark grey. Evidence of possible fault at creek.

Sample Number: N813445 UTM: 520900 mE Nad83, Zone 7

Elevation: 434 m UTM: 7144485 mN

Comments: Limonitic quartz schist/vein with limonite pits.

Sample Number: N813446 UTM: 520901 mE Nad83, Zone 7

Elevation: 386 m UTM: 7144475 mN

Comments: Barite/quartz rich rock with limonite staining.

Sample Number: N813447 UTM: 521017 mE Nad83, Zone 7

Elevation: 356 m UTM: 7144461 mN

Comments: Orange, friable, altered schist with limonite pitting/alteration with quartz eyes and trace malachite (taken from Kill Zone).

Sample Number: N813448 UTM: 520539 mE Nad83, Zone 7

Elevation: 747 m UTM: 7146846 mN

Comments: Limonite pitted, mica-quartz schist. Hand pit float.

Rock Sample Descriptions

Property: Magnum

Sample Number: N813449 UTM: 518933 mE Nad83, Zone 7

Elevation: 737 m UTM: 7145135 mN

Comments: Blue-green, dense ultramafic with unknown purple mineral present.

Sample Number: N813450 UTM: 519430 mE Nad83, Zone 7

Elevation: 754 m UTM: 7145281 mN

Comments: Limonitic schist.

Sample Number: N813451 UTM: 521753 mE Nad83, Zone 7

Elevation: 422 m UTM: 7145726 mN

Comments: Limonite stained and pitted, white, translucent quartz vein (?) or lense. Also in pit mica-quartz-schist

Sample Number: N813452 UTM: 522396 mE Nad83, Zone 7

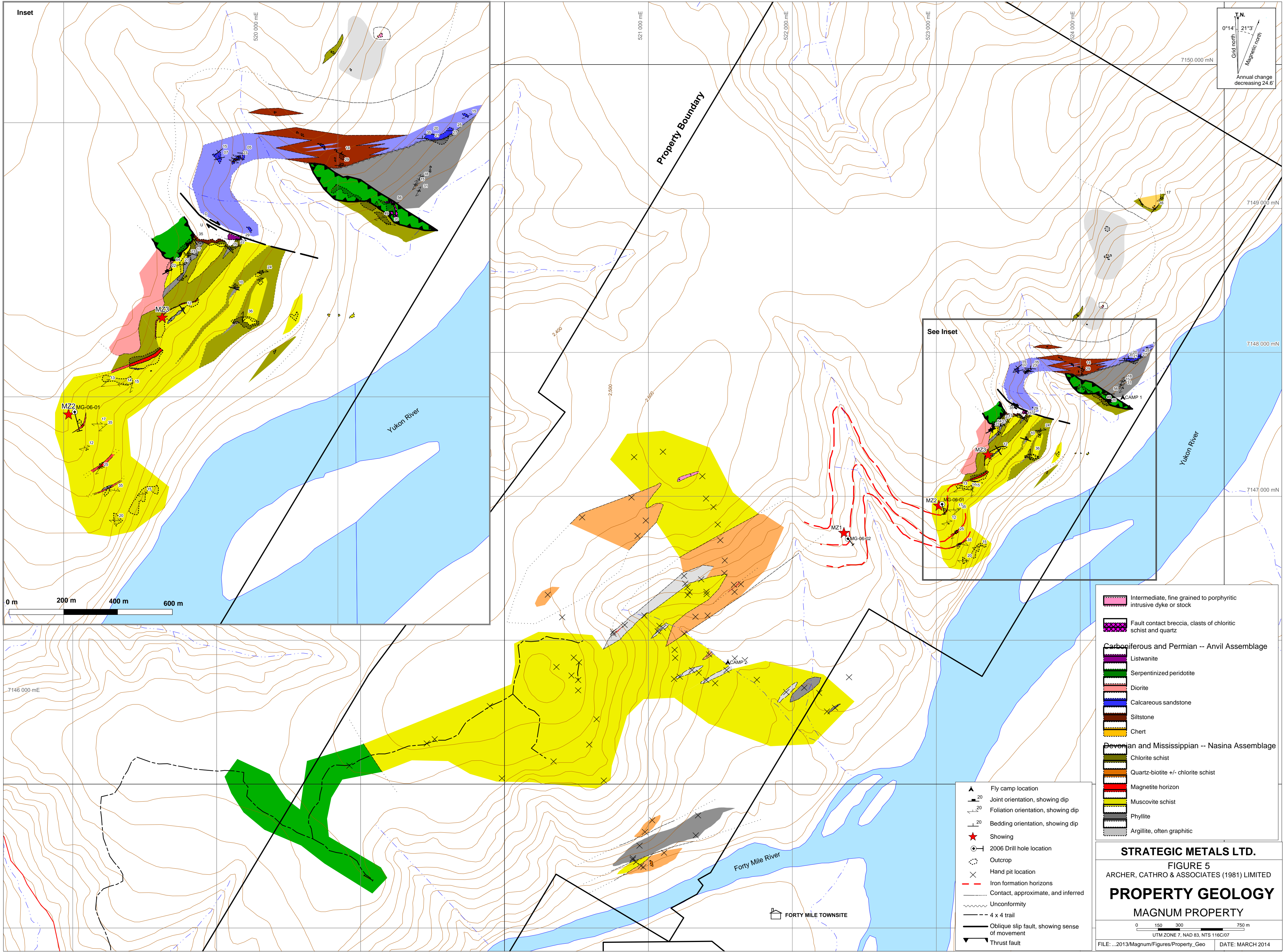
Elevation: 435 m UTM: 7145739 mN

Comments: Bull quartz with limonite foliations.

Sample Number: N813453 UTM: 521405 mE Nad83, Zone 7

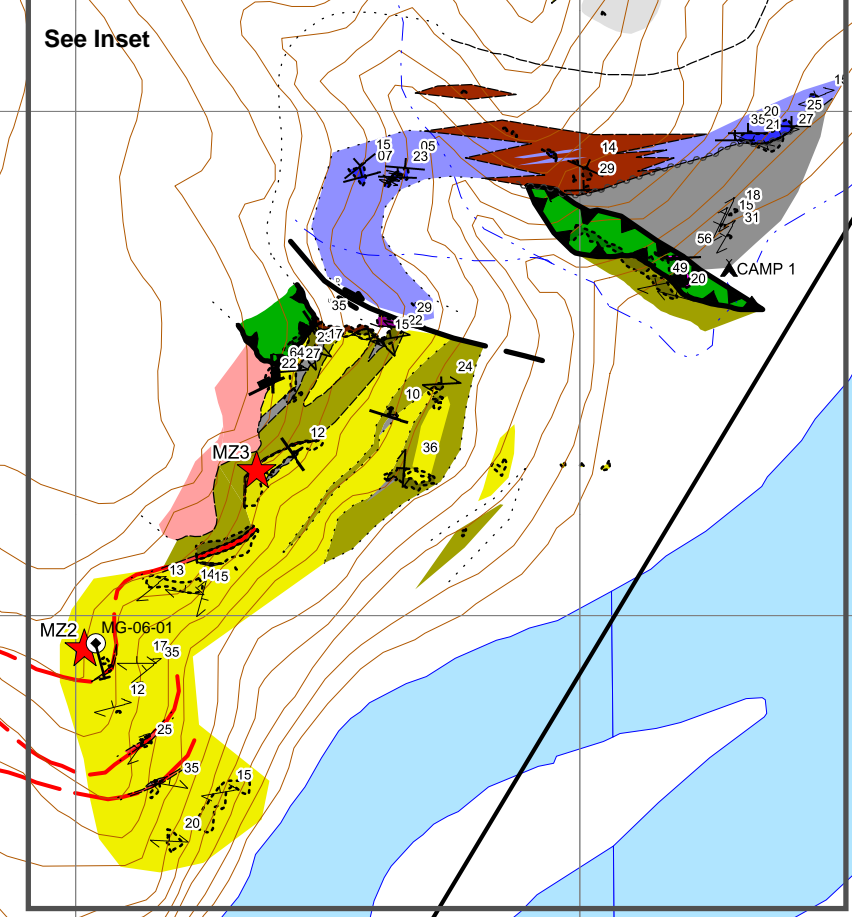
Elevation: 551 m UTM: 7146344 mN

Comments: Folded (dark grey mudstone and quartz bands) gneiss? With limonitic bands. Also quartz-chlorite schist present in pits.



T.N.
 0°14' Grid north
 21°3' Magnetic north
 Annual change decreasing 24.6'

0 m 200 m 400 m 600 m



- Intermediate, fine grained to porphyritic intrusive dyke or stock
- Fault contact breccia, clasts of chloritic schist and quartz
- Carboniferous and Permian -- Anvil Assemblage**
 - Listwanite
 - Serpentinized peridotite
 - Diorite
 - Calcareous sandstone
 - Siltstone
 - Chert
- Devonian and Mississippian -- Nasina Assemblage**
 - Chlorite schist
 - Quartz-biotite +/- chlorite schist
 - Magnetite horizon
 - Muscovite schist
 - Phyllite
 - Argillite, often graphitic

- Fly camp location
- Joint orientation, showing dip
- Foliation orientation, showing dip
- Bedding orientation, showing dip
- Showing
- 2006 Drill hole location
- Outcrop
- Hand pit location
- Iron formation horizons
- Contact, approximate, and inferred
- Unconformity
- 4 x 4 trail
- Oblique slip fault, showing sense of movement
- Thrust fault

STRATEGIC METALS LTD.
 FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY
MAGNUM PROPERTY
 0 150 300 750 m
 UTM ZONE 7, NAD 83, NTS 116C/07
 FILE: ...2013\Magnum\Figures\Property_Geo DATE: MARCH 2014

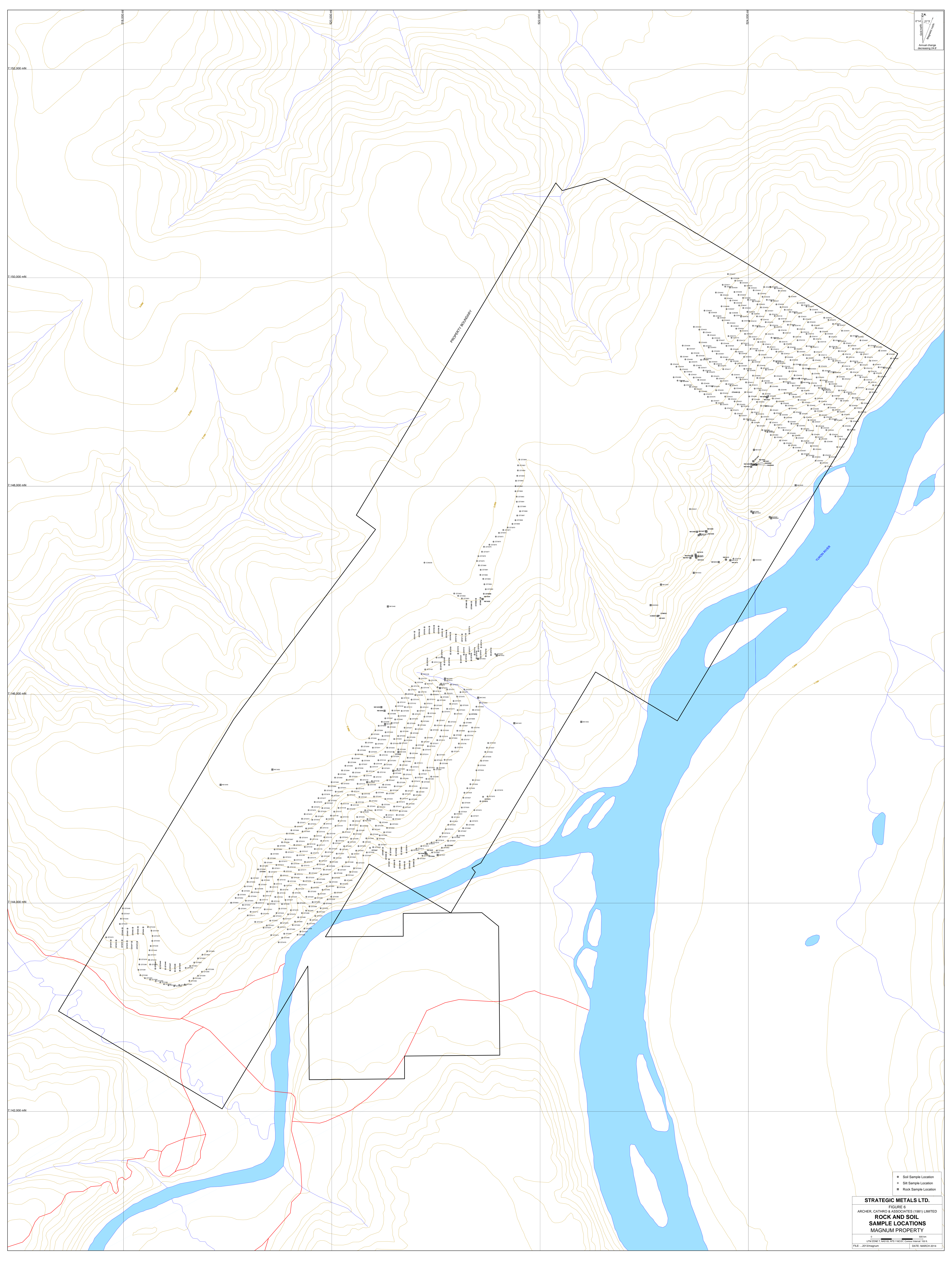
Property Boundary

Yukon River

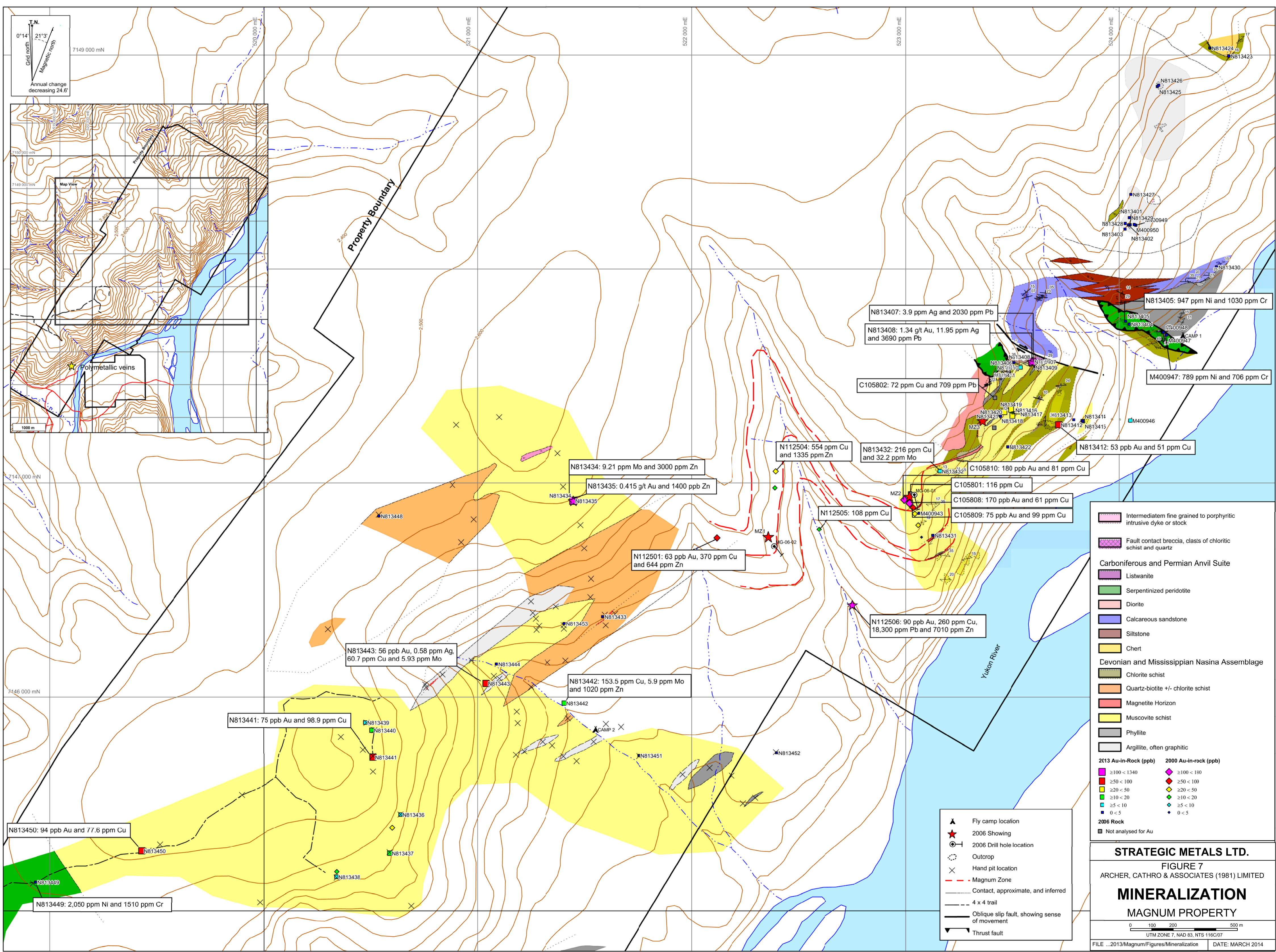
Yukon River

Forty Mile River

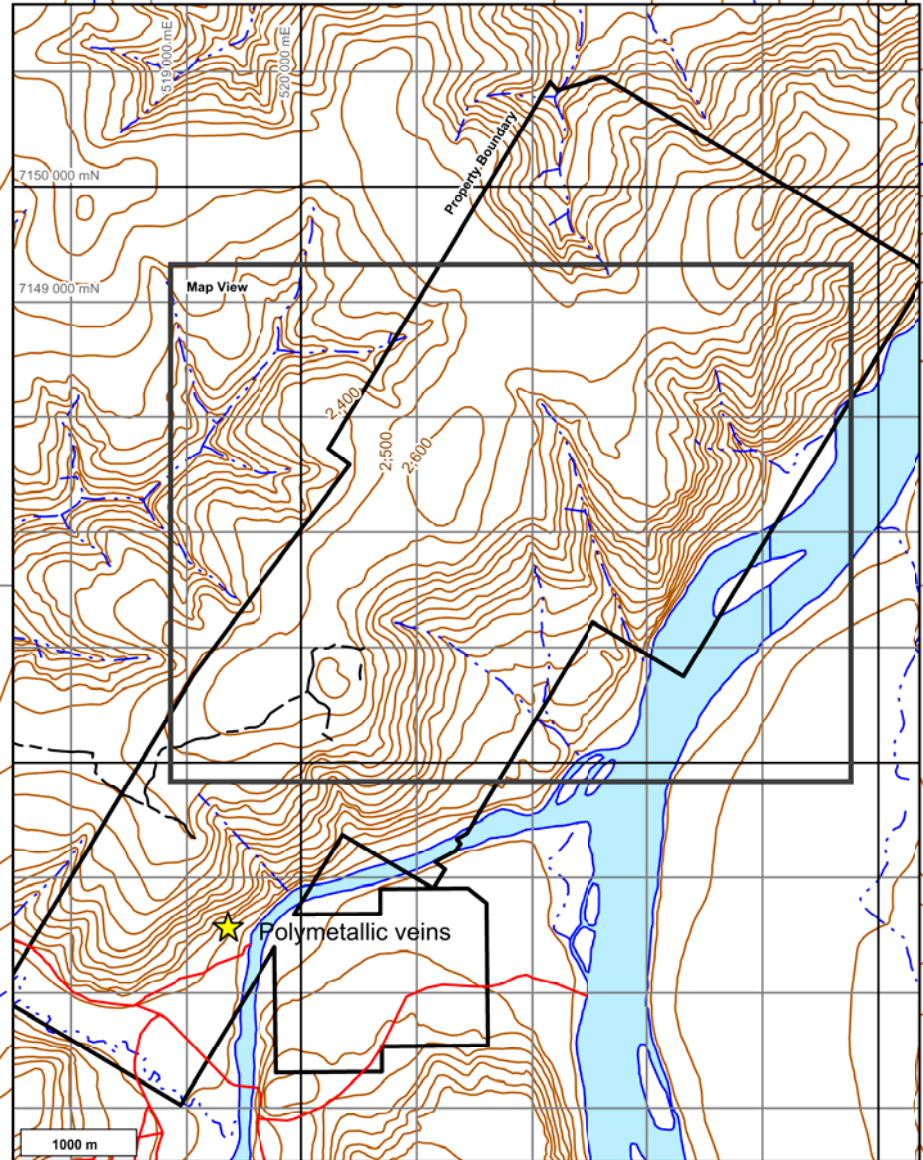
FORTY MILE TOWNSITE



- Soil Sample Location
- Silt Sample Location
- Rock Sample Location



T.N.
0°14' Grid north
21°3' Magnetic north
Annual change decreasing 24.6'



Property Boundary

- ▲ Fly camp location
- ★ 2006 Showing
- 2006 Drill hole location
- Outcrop
- ⊗ Hand pit location
- - - - - Magnum Zone
- - - - - Contact, approximate, and inferred
- - - - - 4 x 4 trail
- Oblique slip fault, showing sense of movement
- ▶ Thrust fault

- Intermedium fine grained to porphyritic intrusive dyke or stock
 - Fault contact breccia, clasis of chloritic schist and quartz
 - Carboniferous and Permian Anvil Suite
 - Listwanite
 - Serpentinized peridotite
 - Diorite
 - Calcareous sandstone
 - Siltstone
 - Chert
 - Cevonian and Mississippian Nasina Assemblage
 - Chlorite schist
 - Quartz-biotite +/- chlorite schist
 - Magnetite Horizon
 - Muscovite schist
 - Phyllite
 - Argillite, often graphitic
- | 2013 Au-in-Rock (ppb) | 2006 Au-in-rock (ppb) |
|-----------------------|-----------------------|
| ≥100 < 1340 | ≥100 < 180 |
| ≥50 < 100 | ≥50 < 100 |
| ≥20 < 50 | ≥20 < 50 |
| ≥10 < 20 | ≥10 < 20 |
| ≥5 < 10 | ≥5 < 10 |
| 0 < 5 | 0 < 5 |
- 2006 Rock
■ Not analysed for Au

STRATEGIC METALS LTD.
FIGURE 7
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MINERALIZATION
MAGNUM PROPERTY

0 100 200 500 m
 UTM ZONE 7, NAD 83, NTS 116C/07
 FILE ...2013\Magnum\Figures\Mineralization DATE: MARCH 2014

N813450: 94 ppb Au and 77.6 ppm Cu

N813449: 2,050 ppm Ni and 1510 ppm Cr

N813441: 75 ppb Au and 98.9 ppm Cu

N813443: 56 ppb Au, 0.58 ppm Ag, 60.7 ppm Cu and 5.93 ppm Mo

N813442: 153.5 ppm Cu, 5.9 ppm Mo and 1020 ppm Zn

N112501: 63 ppb Au, 370 ppm Cu and 644 ppm Zn

N813434: 9.21 ppm Mo and 3000 ppm Zn

N813435: 0.415 g/t Au and 1400 ppb Zn

N112504: 554 ppm Cu and 1335 ppm Zn

N813432: 216 ppm Cu and 32.2 ppm Mo

C105802: 72 ppm Cu and 709 ppm Pb

N813407: 3.9 ppm Ag and 2030 ppm Pb

N813408: 1.34 g/t Au, 11.95 ppm Ag and 3690 ppm Pb

N813405: 947 ppm Ni and 1030 ppm Cr

M400947: 789 ppm Ni and 706 ppm Cr

N813412: 53 ppb Au and 51 ppm Cu

C105801: 116 ppm Cu

C105808: 170 ppb Au and 61 ppm Cu

C105809: 75 ppb Au and 99 ppm Cu

C105810: 180 ppb Au and 81 ppm Cu

N112506: 90 ppb Au, 260 ppm Cu, 18,300 ppm Pb and 7010 ppm Zn

N813442: 153.5 ppm Cu, 5.9 ppm Mo and 1020 ppm Zn

N813434: 9.21 ppm Mo and 3000 ppm Zn

N813435: 0.415 g/t Au and 1400 ppb Zn

N112504: 554 ppm Cu and 1335 ppm Zn

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N813432: 216 ppm Cu and 32.2 ppm Mo

C105802: 72 ppm Cu and 709 ppm Pb

N813407: 3.9 ppm Ag and 2030 ppm Pb

N813408: 1.34 g/t Au, 11.95 ppm Ag and 3690 ppm Pb

N813405: 947 ppm Ni and 1030 ppm Cr

M400947: 789 ppm Ni and 706 ppm Cr

N813412: 53 ppb Au and 51 ppm Cu

C105801: 116 ppm Cu

C105808: 170 ppb Au and 61 ppm Cu

C105809: 75 ppb Au and 99 ppm Cu

C105810: 180 ppb Au and 81 ppm Cu

N112506: 90 ppb Au, 260 ppm Cu, 18,300 ppm Pb and 7010 ppm Zn

N813442: 153.5 ppm Cu, 5.9 ppm Mo and 1020 ppm Zn

N813434: 9.21 ppm Mo and 3000 ppm Zn

N813435: 0.415 g/t Au and 1400 ppb Zn

N112504: 554 ppm Cu and 1335 ppm Zn

N813432: 216 ppm Cu and 32.2 ppm Mo

C105802: 72 ppm Cu and 709 ppm Pb

N813407: 3.9 ppm Ag and 2030 ppm Pb

N813408: 1.34 g/t Au, 11.95 ppm Ag and 3690 ppm Pb

N813405: 947 ppm Ni and 1030 ppm Cr

M400947: 789 ppm Ni and 706 ppm Cr

N813412: 53 ppb Au and 51 ppm Cu

C105801: 116 ppm Cu

C105808: 170 ppb Au and 61 ppm Cu

C105809: 75 ppb Au and 99 ppm Cu

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N112506: 90 ppb Au, 260 ppm Cu, 18,300 ppm Pb and 7010 ppm Zn

N813442: 153.5 ppm Cu, 5.9 ppm Mo and 1020 ppm Zn

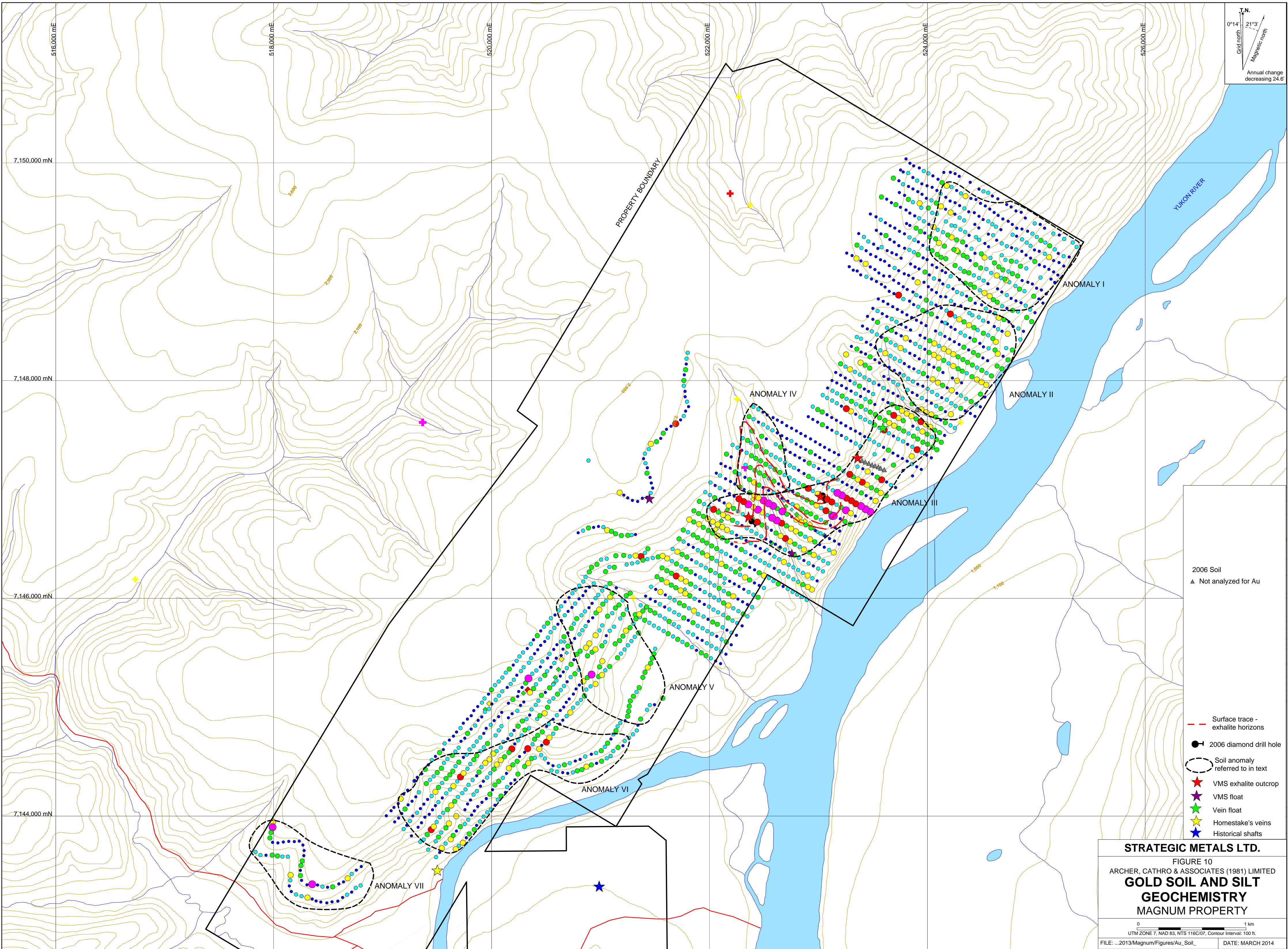
N813434: 9.21 ppm Mo and 3000 ppm Zn

N813435: 0.415 g/t Au and 1400 ppb Zn

N112504: 554 ppm Cu and 1335 ppm Zn

N813432: 216 ppm Cu and 32.2 ppm Mo

C105802: 72 ppm Cu and 709 ppm



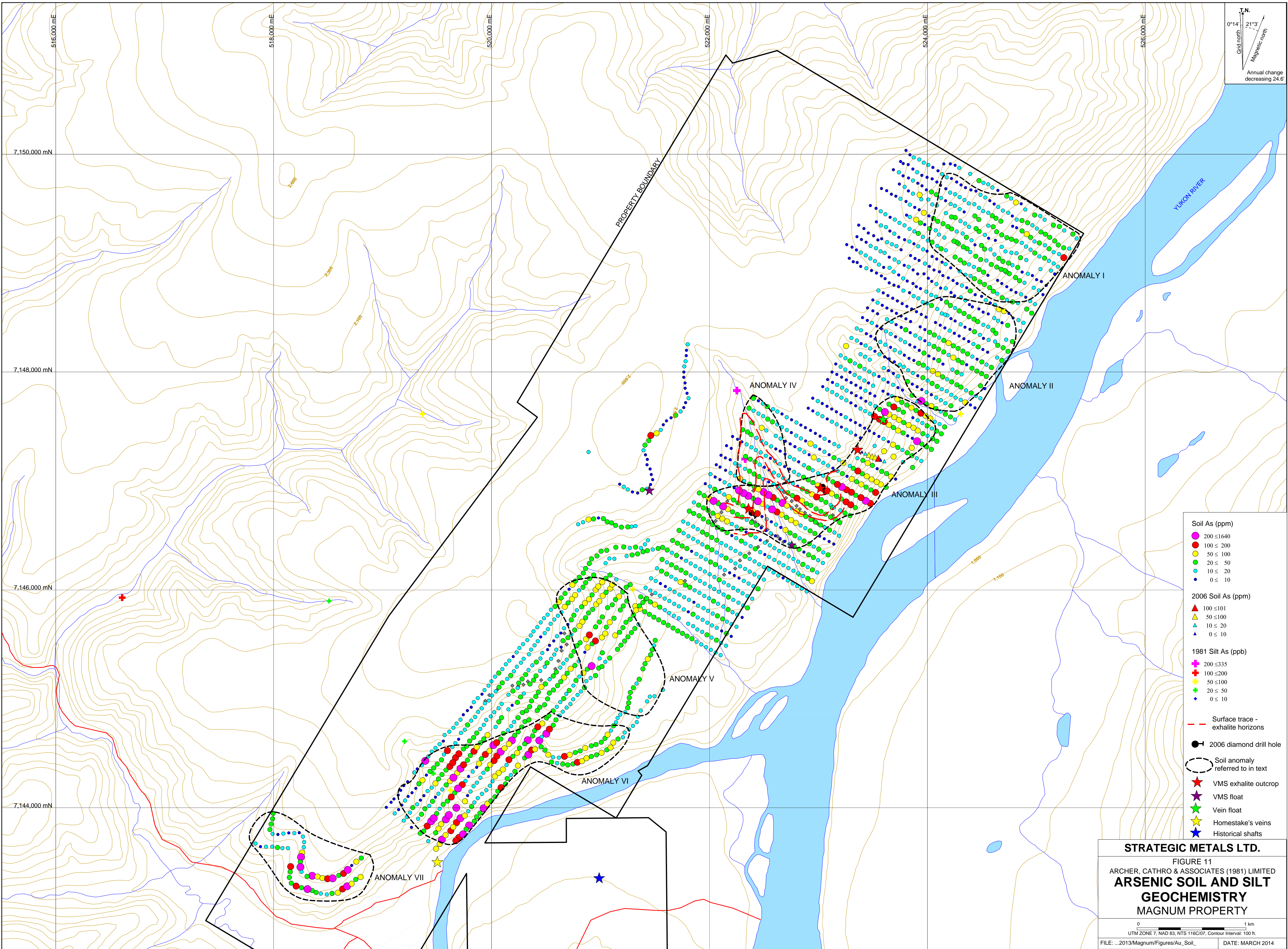
T.N.
 0°14' 21"3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- 2006 Soil
- ▲ Not analyzed for Au
- Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 10
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**GOLD SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013\Magnum\Figures\Au_Soil_ DATE: MARCH 2014



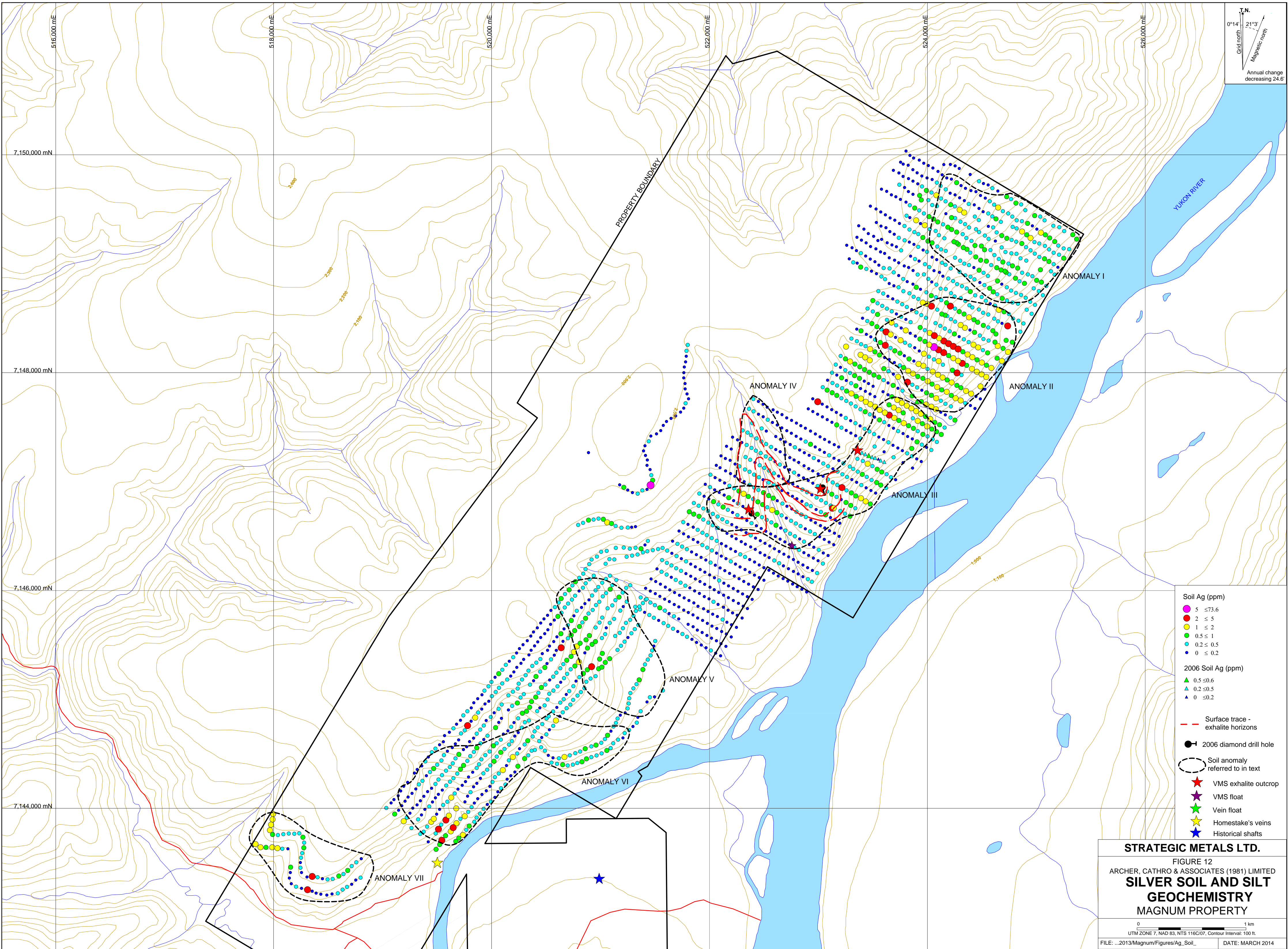
T.N.
 0°14' Grid north
 21°3' Magnetic north
 Annual change decreasing 24.6'

- Soil As (ppm)
 - 200 ≤ 1640
 - 100 ≤ 200
 - 50 ≤ 100
 - 20 ≤ 50
 - 10 ≤ 20
 - 0 ≤ 10
- 2006 Soil As (ppm)
 - ▲ 100 ≤ 101
 - ▲ 50 ≤ 100
 - ▲ 10 ≤ 20
 - ▲ 0 ≤ 10
- 1981 Silt As (ppb)
 - ✦ 200 ≤ 335
 - ✦ 100 ≤ 200
 - ✦ 50 ≤ 100
 - ✦ 20 ≤ 50
 - ✦ 0 ≤ 10
- Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 11
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**ARSENIC SOIL AND SILT
 GEOCHEMISTRY**
 MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour interval: 100 ft.

FILE: ...2013\Magnum\Figures\Au_Soil_ DATE: MARCH 2014



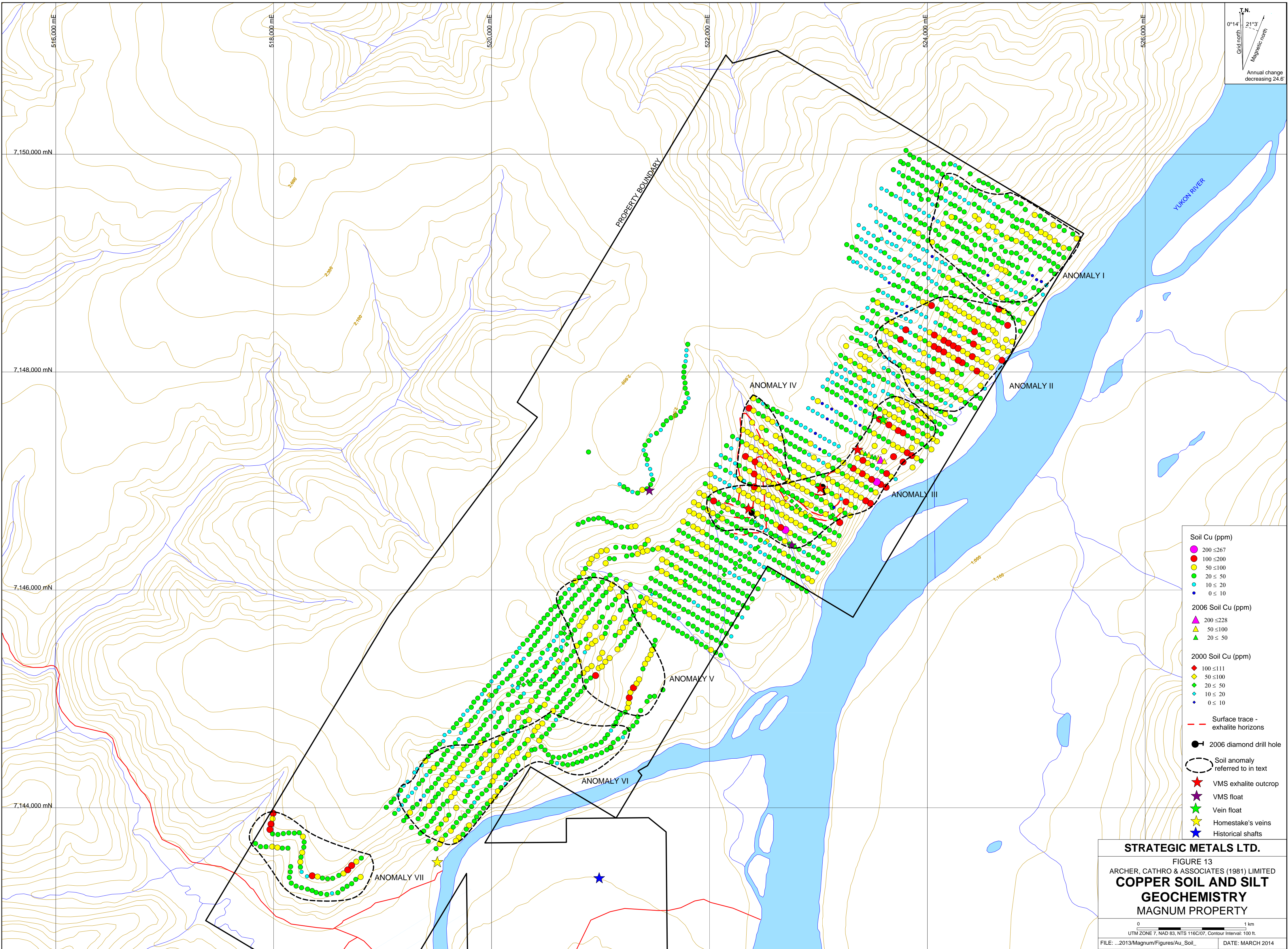
T.N.
 0°14' 21"3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- Soil Ag (ppm)**
- 5 ≤ 73.6
 - 2 ≤ 5
 - 1 ≤ 2
 - 0.5 ≤ 1
 - 0.2 ≤ 0.5
 - 0 ≤ 0.2
- 2006 Soil Ag (ppm)**
- ▲ 0.5 ≤ 0.6
 - ▲ 0.2 ≤ 0.5
 - ▲ 0 ≤ 0.2
- Surface trace - exhalite horizons
 - 2006 diamond drill hole
 - Soil anomaly referred to in text
 - ★ VMS exhalite outcrop
 - ★ VMS float
 - ★ Vein float
 - ★ Homestake's veins
 - ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 12
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**SILVER SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013\Magnum\Figures\Ag_Soil_ DATE: MARCH 2014



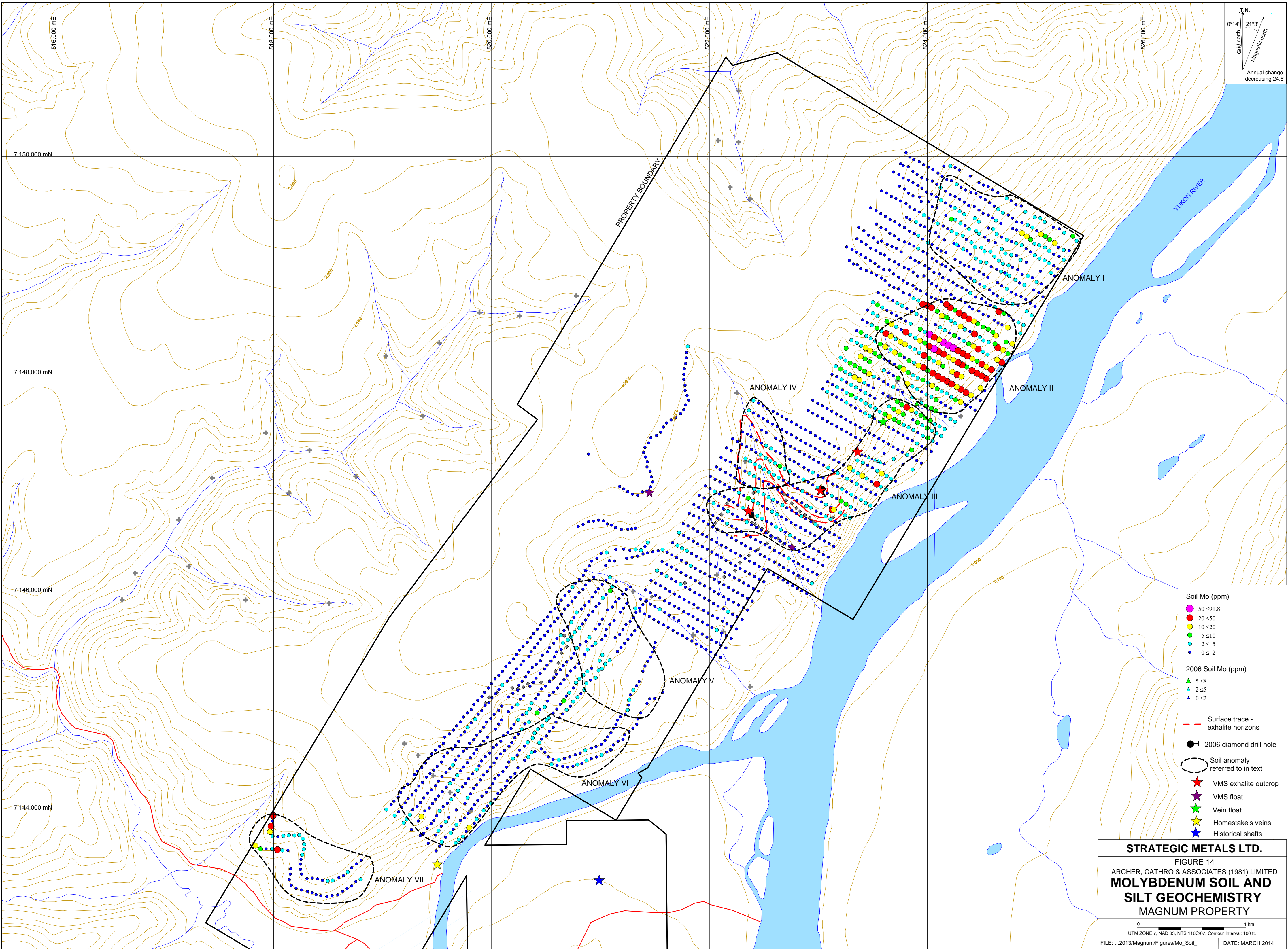
T.N.
 0°14' 21"3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- Soil Cu (ppm)**
- 200 ≤ 267
 - 100 ≤ 200
 - 50 ≤ 100
 - 20 ≤ 50
 - 10 ≤ 20
 - 0 ≤ 10
- 2006 Soil Cu (ppm)**
- ▲ 200 ≤ 228
 - ▲ 50 ≤ 100
 - ▲ 20 ≤ 50
- 2000 Soil Cu (ppm)**
- ◆ 100 ≤ 111
 - ◆ 50 ≤ 100
 - ◆ 20 ≤ 50
 - ◆ 10 ≤ 20
 - ◆ 0 ≤ 10
- - - Surface trace - exhalite horizons
 - 2006 diamond drill hole
 - Soil anomaly referred to in text
 - ★ VMS exhalite outcrop
 - ★ VMS float
 - ★ Vein float
 - ★ Homestake's veins
 - ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 13
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**COPPER SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour interval: 100 ft.

FILE: ...2013\Magnum\Figures\Au_Soil_ DATE: MARCH 2014



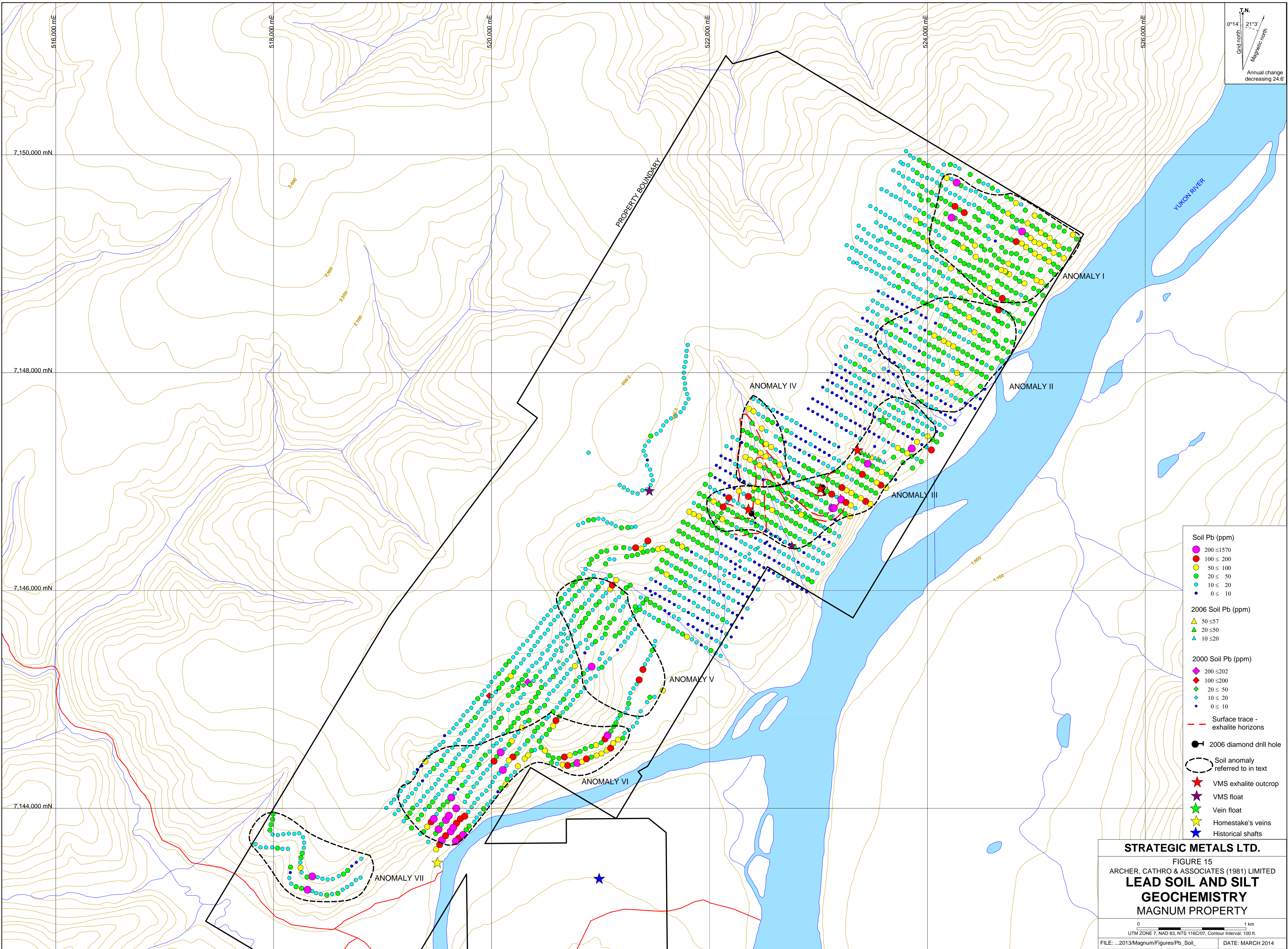
T.N.
 Grid north 0°14'
 Magnetic north 21°3'
 Annual change decreasing 24.6'

- Soil Mo (ppm)**
- 50 ≤ 91.8
 - 20 ≤ 50
 - 10 ≤ 20
 - 5 ≤ 10
 - 2 ≤ 5
 - 0 ≤ 2
- 2006 Soil Mo (ppm)**
- ▲ 5 ≤ 8
 - ▲ 2 ≤ 5
 - ▲ 0 ≤ 2
- - - Surface trace - exhalite horizons
 - 2006 diamond drill hole
 - Soil anomaly referred to in text
 - ★ VMS exhalite outcrop
 - ★ VMS float
 - ★ Vein float
 - ★ Homestake's veins
 - ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 14
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MOLYBDENUM SOIL AND SILT GEOCHEMISTRY
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013\Magnum\Figures\Mo_Soil_ DATE: MARCH 2014



T.N.
 0°14' 21"3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- Soil Pb (ppm)**
- 200 ≤ 1570
- 100 ≤ 200
- 50 ≤ 100
- 20 ≤ 50
- 10 ≤ 20
- 0 ≤ 10

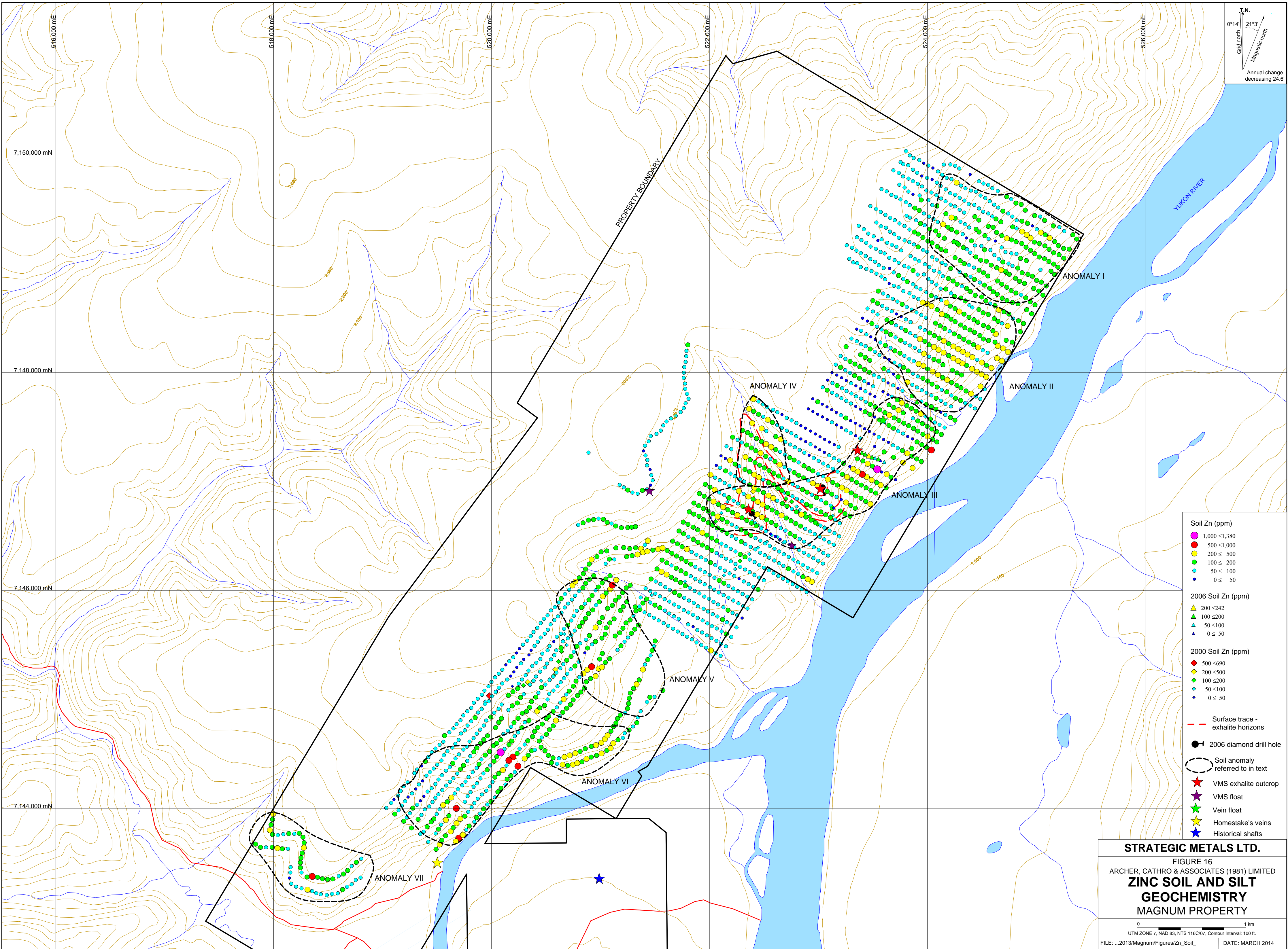
- 2006 Soil Pb (ppm)**
- ▲ 50 ≤ 57
- ▲ 20 ≤ 50
- ▲ 10 ≤ 20

- 2000 Soil Pb (ppm)**
- ◆ 200 ≤ 202
- ◆ 100 ≤ 200
- ◆ 20 ≤ 50
- ◆ 10 ≤ 20
- ◆ 0 ≤ 10

- Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 15
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**LEAD SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour interval: 100 ft.
 FILE: ...2013\Magnum\Figures\Pb_Soil_ DATE: MARCH 2014

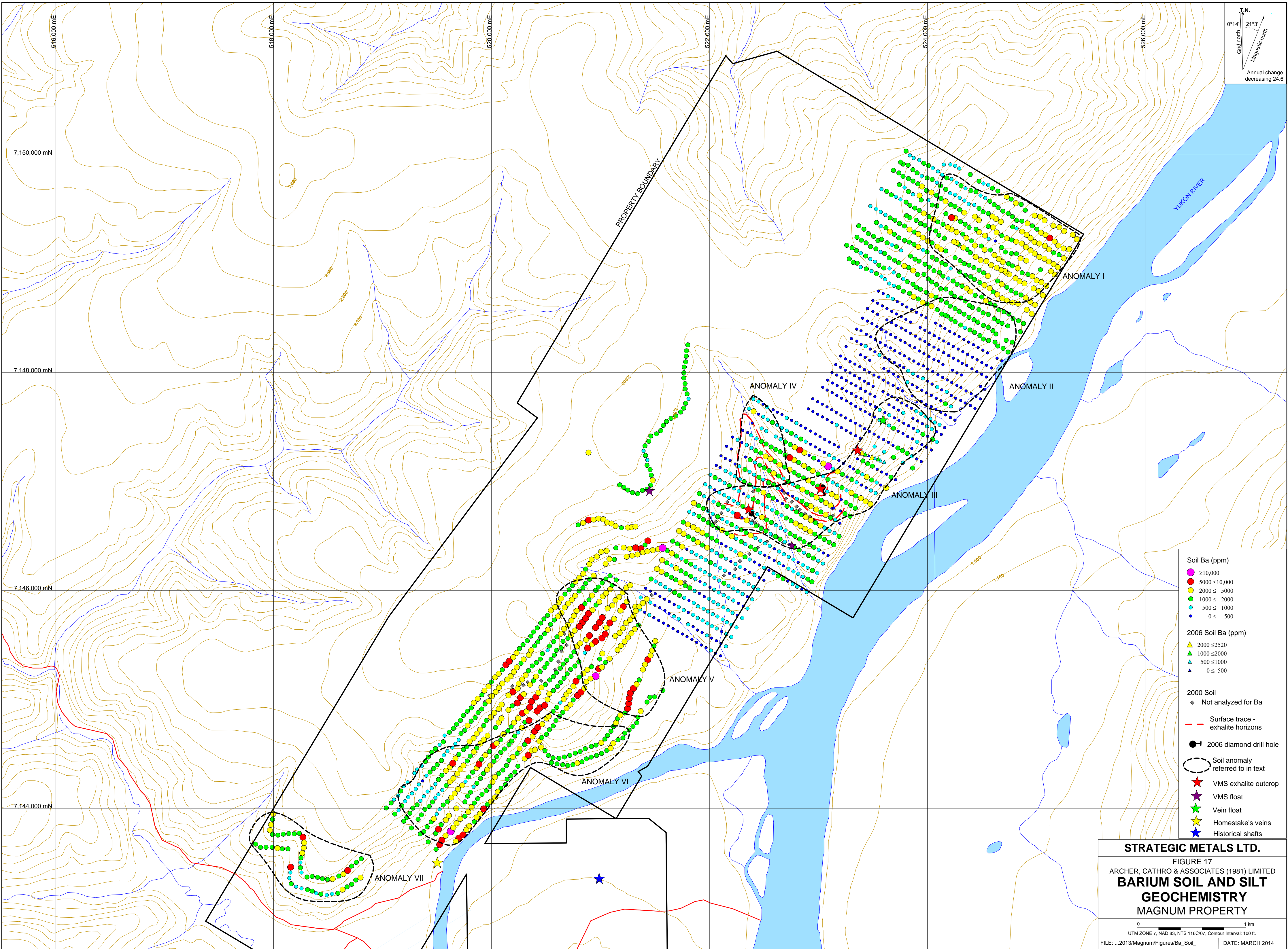


T.N.
 0°14' 21"3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- Soil Zn (ppm)**
- 1,000 ≤ 1,380
- 500 ≤ 1,000
- 200 ≤ 500
- 100 ≤ 200
- 50 ≤ 100
- 0 ≤ 50
- 2006 Soil Zn (ppm)**
- ▲ 200 ≤ 242
- ▲ 100 ≤ 200
- ▲ 50 ≤ 100
- ▲ 0 ≤ 50
- 2000 Soil Zn (ppm)**
- ◆ 500 ≤ 690
- ◆ 200 ≤ 500
- ◆ 100 ≤ 200
- ◆ 50 ≤ 100
- ◆ 0 ≤ 50
- Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 16
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**ZINC SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour interval: 100 ft.
 FILE: ...2013\Magnum\Figures\Zn_Soil_ DATE: MARCH 2014



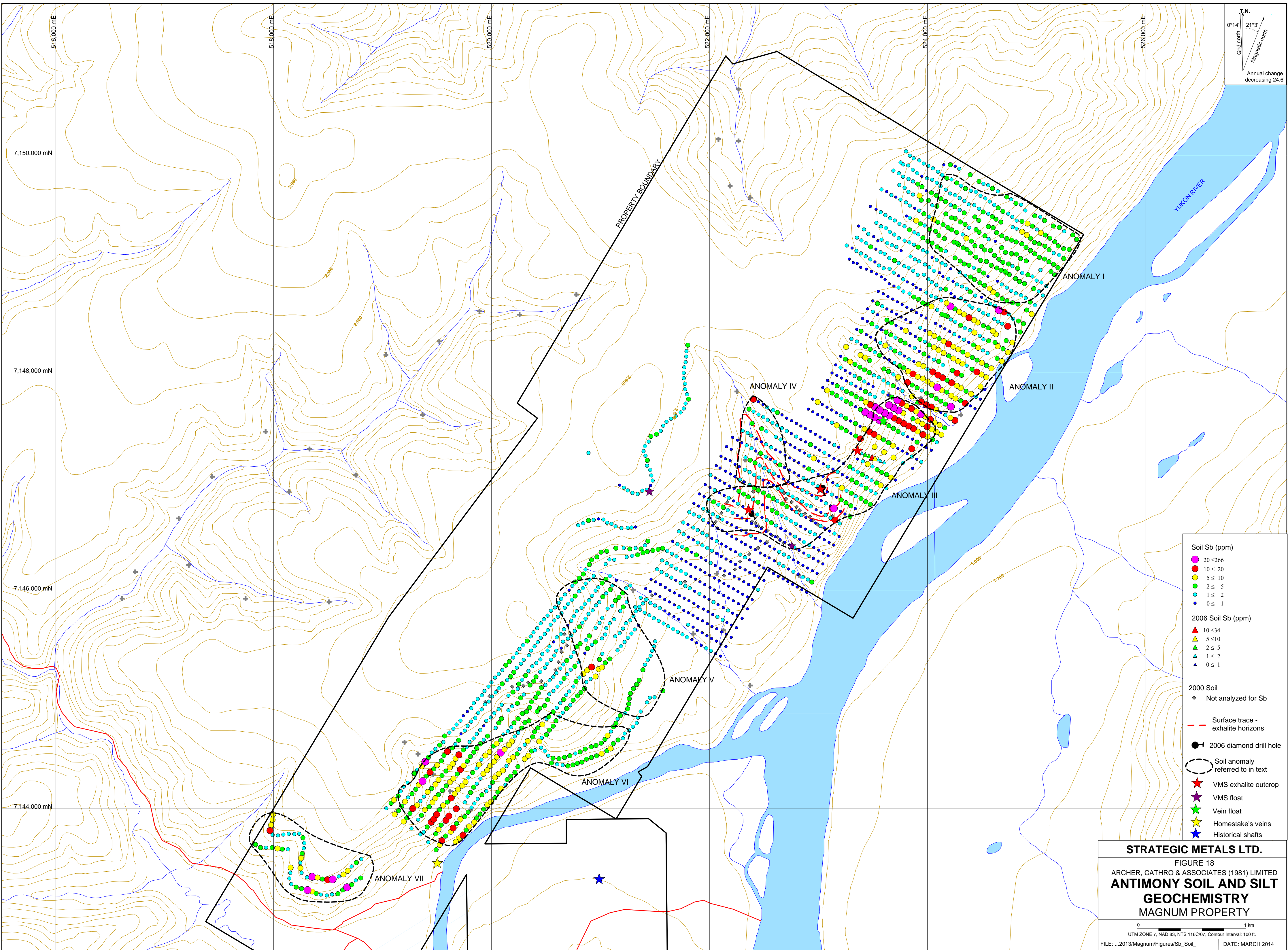
T.N.
 0°14' 21'3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- Soil Ba (ppm)**
- ≥10,000
- 5000 ≤10,000
- 2000 ≤ 5000
- 1000 ≤ 2000
- 500 ≤ 1000
- 0 ≤ 500
- 2006 Soil Ba (ppm)**
- ▲ 2000 ≤2520
- ▲ 1000 ≤2000
- ▲ 500 ≤1000
- ▲ 0 ≤ 500
- 2000 Soil**
- ◆ Not analyzed for Ba
- - - Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 17
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**BARIUM SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013\Magnum\Figures\Ba_Soil_ DATE: MARCH 2014



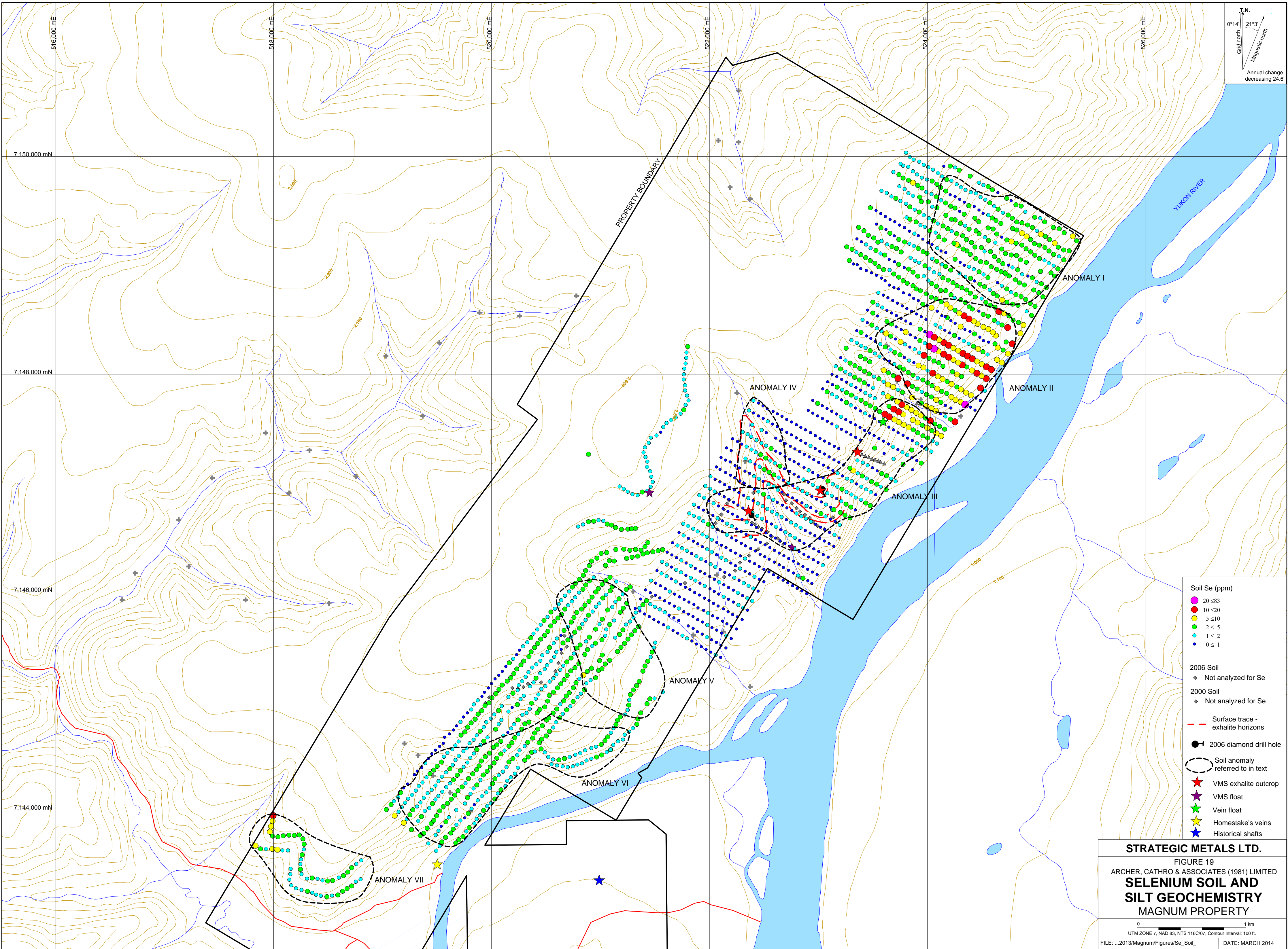
T.N.
 0°14' 21'3"
 Grid north
 Magnetic north
 Annual change decreasing 24.6'

- Soil Sb (ppm)**
- 20 ≤ 266
 - 10 ≤ 20
 - 5 ≤ 10
 - 2 ≤ 5
 - 1 ≤ 2
 - 0 ≤ 1
- 2006 Soil Sb (ppm)**
- ▲ 10 ≤ 34
 - ▲ 5 ≤ 10
 - ▲ 2 ≤ 5
 - ▲ 1 ≤ 2
 - ▲ 0 ≤ 1
- 2000 Soil**
- ◆ Not analyzed for Sb
- Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 18
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**ANTIMONY SOIL AND SILT
 GEOCHEMISTRY**
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013\Magnum\Figures\Sb_Soil_ DATE: MARCH 2014



T.N.
 Grid north 0°14'
 Magnetic north 21°3'
 Annual change decreasing 24.6'

- Soil Se (ppm)**
- 20 ≤ 83
 - 10 ≤ 20
 - 5 ≤ 10
 - 2 ≤ 5
 - 1 ≤ 2
 - 0 ≤ 1
- 2006 Soil**
- ◆ Not analyzed for Se
- 2000 Soil**
- ◆ Not analyzed for Se
- Surface trace - exhalite horizons
- 2006 diamond drill hole
- Soil anomaly referred to in text
- ★ VMS exhalite outcrop
- ★ VMS float
- ★ Vein float
- ★ Homestake's veins
- ★ Historical shafts

STRATEGIC METALS LTD.
 FIGURE 19
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SELENIUM SOIL AND SILT GEOCHEMISTRY
MAGNUM PROPERTY

0 1 km
 UTM ZONE 7, NAD 83, NTS 116C/07, Contour Interval: 100 ft.

FILE: ...2013\Magnum\Figures\Se_Soil_ DATE: MARCH 2014