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ASSESSMENT REPORT

describing

SOIL SAMPLING, PROSPECTING AND GEOLOGICAL MAPPING

Field work performed from August 22 to 29, 2013

at the

FOUR CORNERS EAST PROPERTY

4C 289-292	YC22874-YC22877
357-360	YC22924-YC22927
383-386	YC22950-YC22953
409-412	YC23114-YC23117
435-438	YC22994-YC22997
439	YC28800
440-450	YC29001-YC29011
451-460	YC97695-YC97704
461-482	YD33847-YD33868

NTS 105G/01

Latitude 61°02'N; Longitude 130°04'W

located in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

X. Montague, BSc., GIT
January 2014

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INTRODUCTION

The Four Corners East property covers volcanogenic massive sulphide (VMS) prospects located within the Finlayson Lake District of southeast Yukon Territory. The property is 100 % 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 from August 22 to 29, 2013. The author participated in the program and interpreted results; her Statement of Qualifications appears in Appendix I. A Statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Four Corners East property consists of 64 contiguous mineral claims located in southeastern Yukon at latitude 61°02' north and longitude 130°04' west on NTS map sheet 105G/01 (Figure 1). The property covers an area of approximately 1350 ha (13.5 sq km). The claims are registered with the Watson Lake Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim registration data are listed below, while locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
4C 289-292	YC22874-YC22877	March 13, 2019
357-360	YC22924-YC22927	March 13, 2019
383-386	YC22950-YC22953	March 13, 2019
409-412	YC23114-YC23117	March 13, 2019
435-438	YC22994-YC22997	March 13, 2019
439	YC28800	March 13, 2019
440-450	YC29001-YC29011	March 13, 2019
451-460	YC97695-YC97704	March 13, 2019
461-482	YD33847-YD33868	March 9, 2017

* Expiry dates do not include 2013 work, which has not yet been filed for assessment credit.

The 2013 work was completed from a fly camp on the property (Figure 2). A staging area near the junction of the Nahani Range Road and the Robert Campbell Highway was used for mobilization of crew and gear. Helicopter support for the program was provided by a Bell 206B helicopter operated by Trans North Helicopters from its base in Watson Lake.

The 4C claims lie approximately 115 km northwest of Watson Lake. The closest road access is from the Robert Campbell Highway, which at its nearest point is 40 km east of the property. The Robert Campbell Highway is usable in all seasons by two wheel drive vehicles.

The property is located in the Kaska Dena traditional territory. Neither the property nor access routes overlies first nation settlement lands.

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

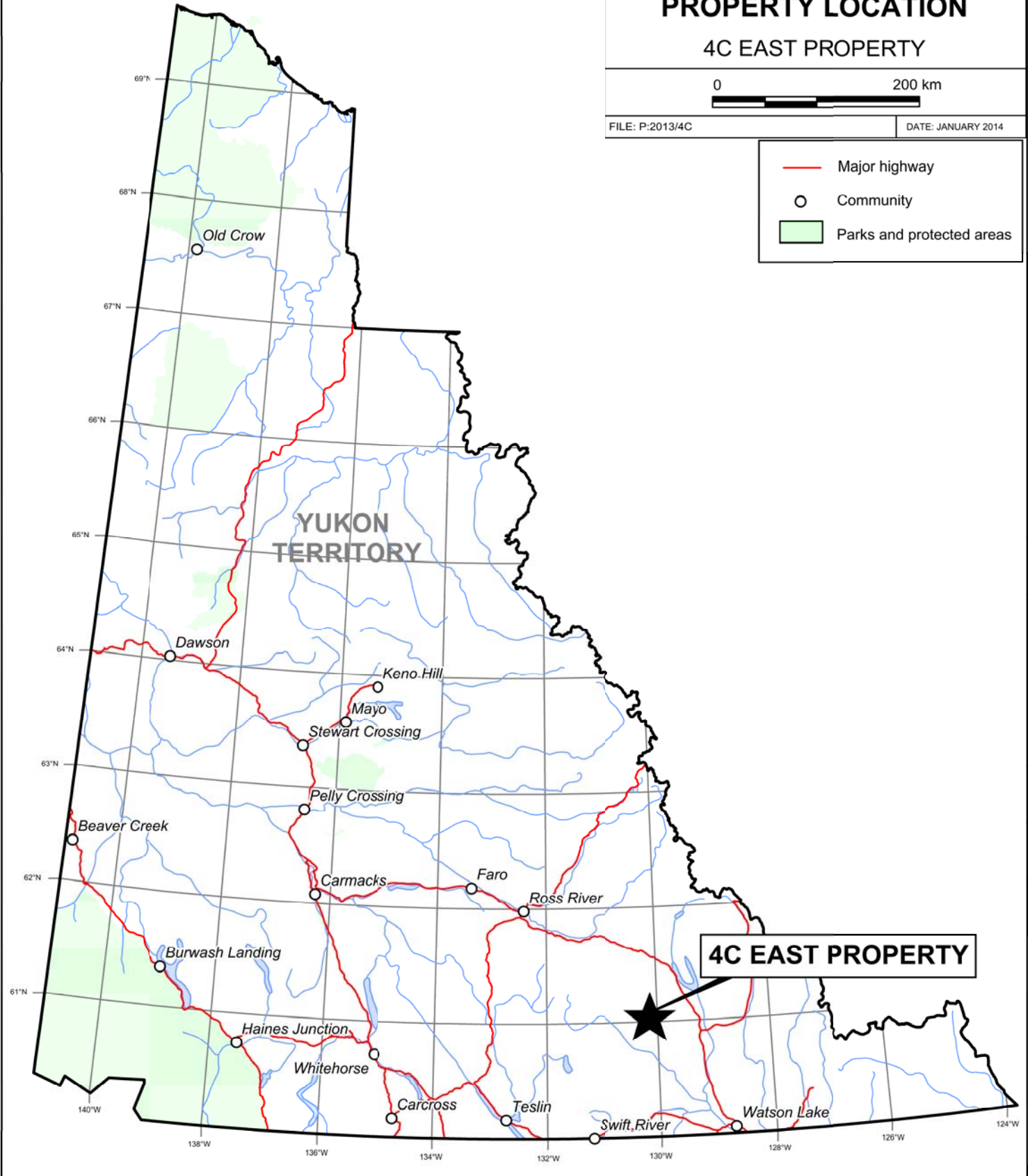
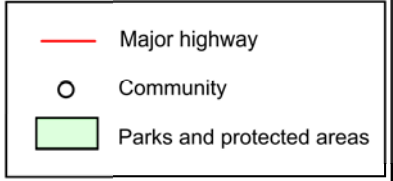
PROPERTY LOCATION

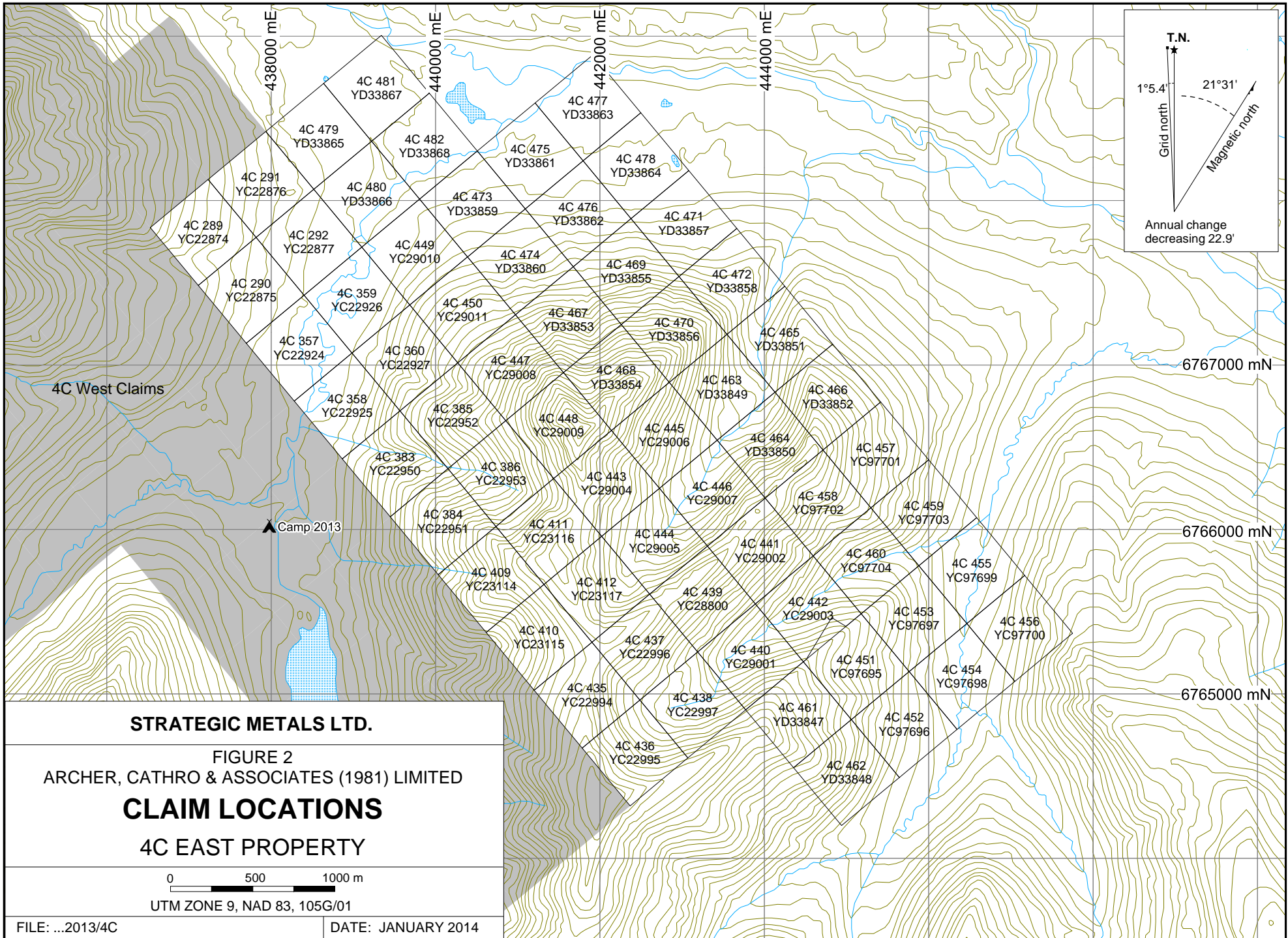
4C EAST PROPERTY



FILE: P:2013/4C

DATE: JANUARY 2014





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FIGURE 2
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

4C EAST PROPERTY

0 500 1000 m

UTM ZONE 9, NAD 83, 105G/01

FILE: ...2013/4C

DATE: JANUARY 2014

HISTORY AND PREVIOUS WORK

Regional-scale geological mapping in the vicinity of the Four Corners East property was performed by the Geological Survey of Canada (GSC) in 1960 and 1977 (Poole *et al.*, 1960 and Tempelman-Kluit, 1977). Drainages in the area were sampled in 1978 during reconnaissance-scale stream sediment geochemical surveys supervised by the GSC (Hornbrook and Ballantyne, 1978 and Hornbrook and Friske, 1988).

The only record of previous exploration in the area now covered by the Four Corners East property is work conducted by Cominco Ltd. between 1995 and 1998. That work targeted VMS mineralization modelled on the Kudz Ze Kayah Deposit, located 60 km north-northwest of the Four Corners East property. Cominco flew helicopter-borne geophysical surveys over most of the Finlayson Lake District following the discovery of Kudz Ze Kayah, and it later staked numerous claim blocks to cover geophysical anomalies. Results from the geophysical surveys were not reported for assessment credit.

In 1996 and 1997, Cominco staked three claim blocks (BL 1 to 93, Wat 1 to 165 and IC 1 to 28) in the area. Parts of the Wat and IC claim blocks overlapped with much of the current Four Corners East property. Cominco performed reconnaissance-scale soil and stream sediment sampling, geological mapping and prospecting. In 1998, Cominco completed more detailed mapping and prospecting around a stratiform pyrite showing hosted within siliceous felsic exhalite and argillite on the IC claims. This showing (IC Showing) is in the southeastern part of the Four Corners East property. Both Cominco's claim blocks were subsequently allowed to expire.

In early spring 2003, Strategic Metals staked its initial 4C claims and later that spring it optioned them to Firestone Ventures Inc., which later expanded the claim block (Wengzynowski, 2003). Exploration for emeralds was conducted in the western part of the property (that area did not overlap with the current Four Corners East property). This work resulted in the discovery of a few small beryl crystals, but no green or gem quality stones were found.

In 2005, after Firestone dropped its option, Strategic Metals staked additional claims and explored the eastern part of the property (this area included the current Four Corners East property) for VMS potential by soil sampling, prospecting and geological mapping. The most significant discovery from that program was the HS Showing, which comprises a limonite boxwork subcrop within quartz-carbonate altered metavolcanics. The limonite is believed to be the weathered product of Besshi-style VMS mineralization (Wengzynowski, 2006). The Fyre Lake Deposit, located 30 km to the northwest, is a Besshi-style deposit hosted in the same stratigraphic unit.

In 2006, Strategic Metals contracted Geotech Ltd. to conduct helicopter-borne magnetic and versatile time domain electromagnetic (VTEM) surveys over the eastern part of the 4C claim block – this survey largely overlapped with the current Four Corners East property (Wengzynowski, 2007). The VTEM data was reprocessed and interpreted by Condor Consulting, Inc. in spring 2009.

In 2009, Strategic Metals performed limited soil sampling, prospecting and geological mapping in the vicinity of the HS and IC Showings (Gregory, 2009). Results from this program confirmed the nature and extent of earlier results.

In 2010, Strategic Metals conducted a one day geochemical sampling, prospecting, geological mapping and hand trenching program (Eaton, 2011). Results from this work are described in the appropriate sections below.

GEOMORPHOLOGY

The Four Corners East property lies within the Simpson Range of the Pelly Mountains, near the headwaters of the Liard River. Elevations range between 1100 and 1840 m. Topography is rugged with predominantly north flowing creeks draining U-shaped valleys that often emanate from cirques. Slopes are moderate to steep, typically ranging between 20 and 45°. Ridge crests are mostly rounded uplands with extensive felsenmeer.

Ice sheets covered the entire Pelly Mountain area during the Pleistocene with the main ice flows directed southeasterly along the larger river valleys. Alpine glacial features such as cirques, tarn lakes and lateral moraines are common.

Much of the property lies above tree line, which is at about 1500 m. Vegetation ranges from thick spruce, balsam and willow at lower elevations, giving way to scattered stunted spruce, buckbrush and moss and ultimately to grass and lichen at higher elevations.

The creeks draining the claim block flow into tributaries of the Liard River and ultimately into the Arctic Ocean via the Mackenzie River.

REGIONAL GEOLOGY

The Four Corners East property lies within the Finlayson Lake District. This district has been the focus of numerous government and industry sponsored studies due to its VMS potential. The Geological Survey of Canada (GSC) mapped the Finlayson Lake area (NTS map sheet 105G) twice at a 1:250,000 scale (Wheeler *et al.*, 1960 and Tempelman-Kluit, 1977). In the late 1990s and early 2000s, the Yukon Geological Survey (YGS) performed more detailed (1:50,000 scale) mapping in the area and in 2002, it completed a geological compilation and updated the lithological names (Bond *et al.*, 2002). In 2003, Gordey and Makepeace incorporated this data into a Yukon-wide geological compilation. The YGS maintains a website of geological data, which is periodically updated when new information becomes available (Yukon Geological Survey, 2014) The following geological descriptions are based on the published data.

The Finlayson Lake District comprises an isolated outlier of Yukon-Tanana Terrane (YTT) and Slide Mountain Terrane (SMT) and affiliated overlap assemblages (Figure 3). The district is bounded by the Tintina Fault to the southwest and the Inconnu Thrust Fault to the northeast. Five major VMS deposits have been discovered in the district (Figure 4). The Fyre Lake, Kudze Kayah, GP4F and Wolverine deposits, all occur within YTT, while the Ice Deposit is hosted in SMT.

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

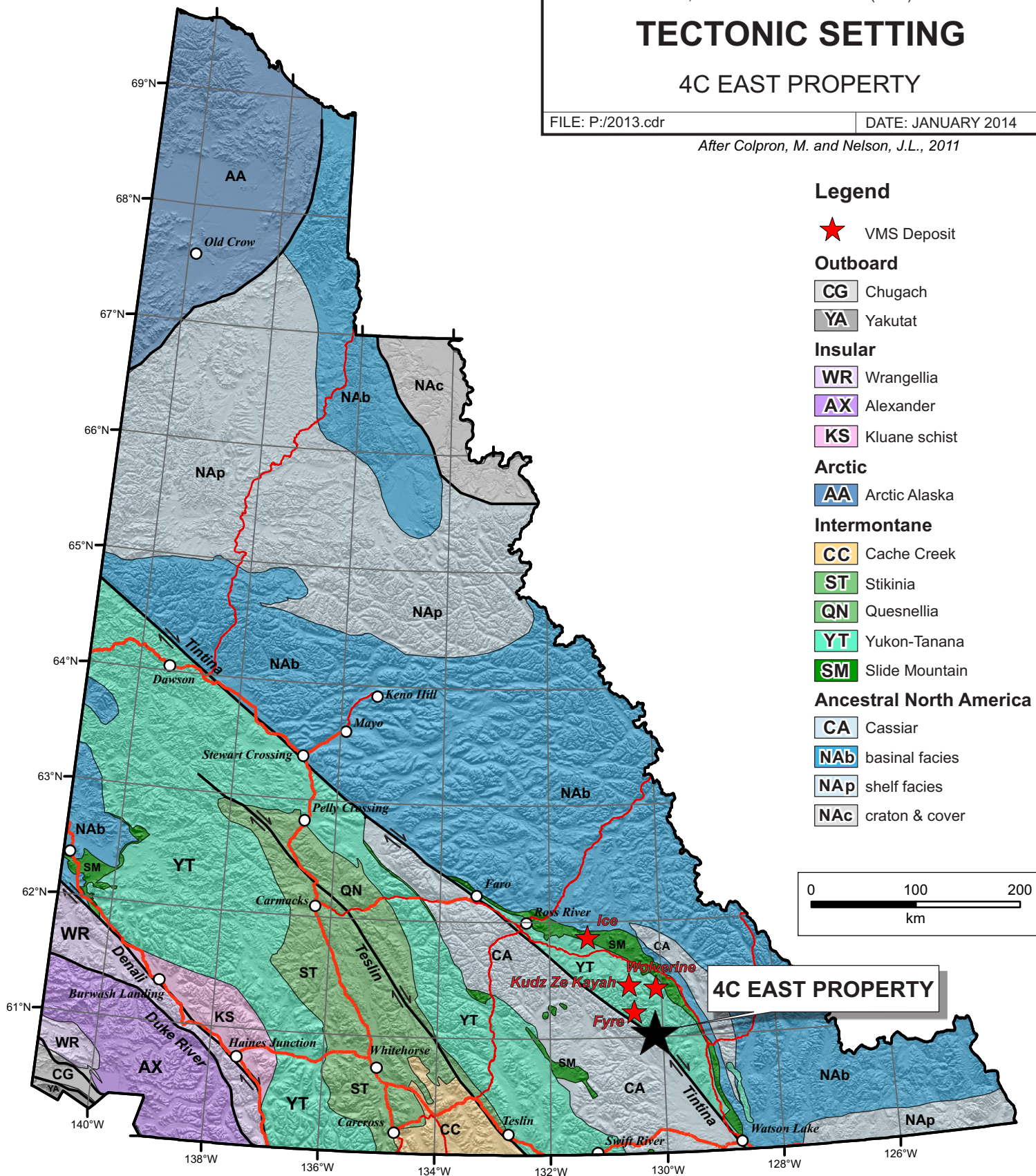
TECTONIC SETTING

4C EAST PROPERTY

FILE: P:/2013.cdr

DATE: JANUARY 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

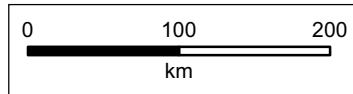
Ancestral North America

CA Cassiar

NAb basinal facies

NAp shelf facies

NAc craton & cover



4C EAST PROPERTY

YUKON-TANANA TERRANE (YTT)

- LAYERED ROCKS**
- Lower Permian
 Money Creek Formation
 dark phyllite and sandstone, chert, chert-pebble conglomerate, diamictite
- Upper Mississippian to Lower Permian
 Whitefish Limestone
 massive bioclastic limestone
- Lower Mississippian
 Tuchtua Formation
 intermediate, felsic and mafic volcanic rocks, sandstone, chert, limestone
- Wolverine Lake Group
 undifferentiated mafic and felsic volcanic rocks and dark clastic rocks
- Upper Devonian to Lower Mississippian
 Cleaver Lake Formation
 calc-alkaline basalt, rhyolite, chert and volcanic derived sandstone
- Waters Creek Formation
 felsic to intermediate metavolcanic rocks and carbonaceous phyllite
- Grass Lakes Group
 felsic to intermediate metavolcanic rocks and dark clastic rocks of the Fire Lake, Kudz Ze Kayah, and Wind Lake formations
- North River Formation
 quartzose metaclastic rocks, marble and non-carbonaceous pelitic schist

INTRUSIVE ROCKS

- Early Mississippian
 Simpson Range plutonic suite
 granite, quartz monzonite, granodiorite
- Late Devonian to Early Mississippian
 Grass Lakes plutonic suite
 granite, quartz monzonite augen granite
- ultramafic and mafic intrusions, Big Campbell and Cleaver Lake thrust sheets

SLIDE MOUNTAIN TERRANE (SMT)

- LAYERED ROCKS**
- Lower Permian
 quartzite
 limestone
- Lower Permian
 Campbell Range Formation
 basalt and varicoloured chert
- Carboniferous?
 Fortin Creek Group
 dark phyllite and chert, varicoloured chert, chert-pebble conglomerate, sandstone, limestone

SLIDE MOUNTAIN TERRANE

- INTRUSIVE ROCKS**
- Early Permian
 ultramafic and mafic intrusions

NORTH AMERICAN CONTINENTAL MARGIN

- Paleozoic
 undifferentiated formations of Selwyn Basin, Cassier Platform, Earn Group and Mt. Christie Formation

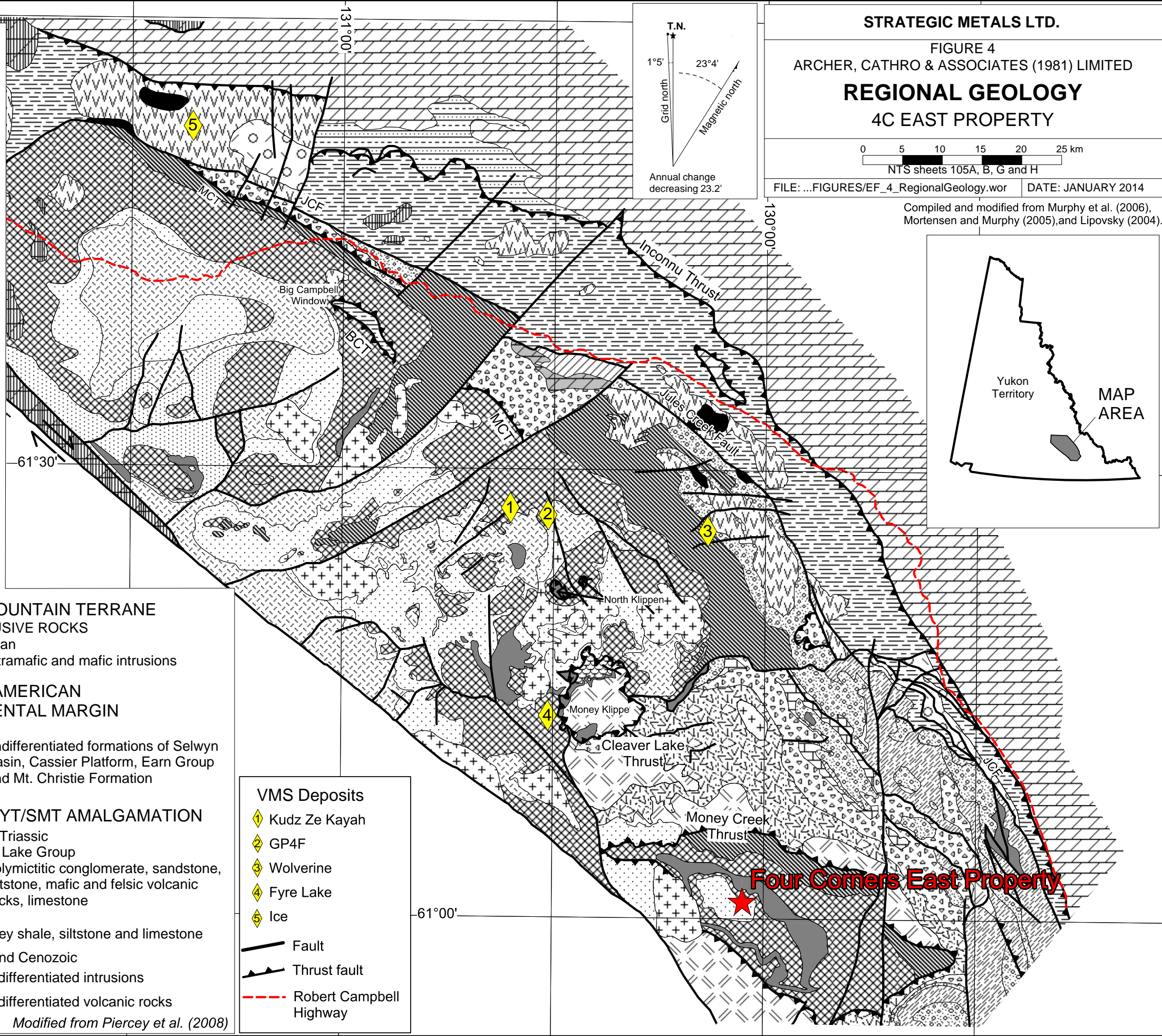
POST - YTT/SMT AMALGAMATION

- Permian to Triassic
 Simpson Lake Group
 polymictitic conglomerate, sandstone, siltstone, mafic and felsic volcanic rocks, limestone
- Triassic
 grey shale, siltstone and limestone
- Mesozoic and Cenozoic
 undifferentiated intrusions
 undifferentiated volcanic rocks

Modified from Piercey et al. (2008)

VMS Deposits

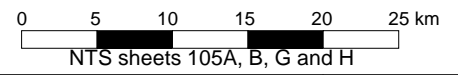
- 1 Kudz Ze Kayah
 - 2 GP4F
 - 3 Wolverine
 - 4 Fyre Lake
 - 5 Ice
- Fault
 — Thrust fault
 - - - Robert Campbell Highway



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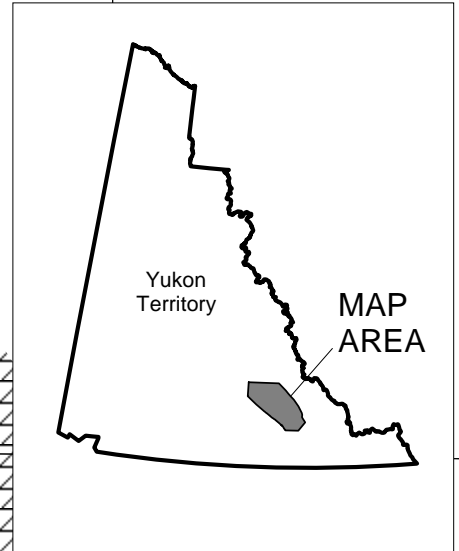
FIGURE 4
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY
 4C EAST PROPERTY



FILE: ...FIGURES/EF_4_RegionalGeology.wor DATE: JANUARY 2014

Compiled and modified from Murphy et al. (2006), Mortensen and Murphy (2005), and Lipovsky (2004).



YTT and SMT represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during late Devonian and through Permian (Piercey *et al.*, 2006). Pericratonic rocks of YTT and oceanic rocks of SMT are juxtaposed against rocks of the North American continental margin sequence along the post-Late Triassic Inconnu Thrust Fault (Murphy *et al.*, 2006). Rocks of these terranes in the Finlayson Lake District are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites.

The following descriptions of YTT and SMT are largely summarized from Murphy *et al.* (2006).

Rocks of YTT in the Finlayson Lake District lie between the Tintina Fault and the Jules Creek Fault. YTT is subdivided into a number of fault- and unconformity-bounded groups and formations. From the structurally deepest levels of the district upwards, these include: (1) North River Formation, Grass Lakes and Wolverine Lake Groups, and affiliated metaplutonic rocks in the Big Campbell Thrust Sheet; (2) North River, Waters Creek and Tuchitua River formations and affiliated intrusions in the Money Creek Thrust Sheet; and (3) Cleaver Lake Formation and intrusions of the Cleaver Lake Thrust Sheet (Figure 4). Regional shortening, uplift, erosion and synorogenic clastic sedimentation took place during Early Permian. Lower Permian Money Creek Formation was deposited unconformably atop folded Mississippian and Pennsylvanian rocks and was subsequently folded and overthrust by the Cleaver Lake and Money Creek thrust faults. The movement of the Money Creek Thrust Fault is constrained to Early Permian because both the hanging wall and footwall are unconformably overlain by Lower Permian rocks of Campbell Range Formation of SMT

North River Formation quartzose metaclastic rocks and metapelites are the oldest exposed rock units in the Big Campbell Thrust Sheet. North River Formation is overlain by chloritic schist and lesser carbonaceous phyllite of Fire Lake Formation of Grass Lakes Group. This formation hosts the Besshi-style Fyre Lake Deposit (Hunt, 2002). This Late Devonian deposit is associated with chloritic phyllite and greenstone of boninitic composition (Piercey *et al.*, 2004). Mafic and variably serpentized ultramafic rocks are present as sills and dikes in Fire Lake and North River formations, respectively. Stratigraphically overlying Fire Lake Formation is a carbonaceous phyllite-dominated succession, which has been divided into two parts. The lower part, Kudz Ze Kayah Formation, contains felsic metavolcanic rocks that host the Kuroko-style Kudz Ze Kayah and GP4F deposits, while the upper part, Wind Lake Formation, contains mafic metavolcanic rocks and quartzite (Murphy, 1998). Grass Lakes Group is intruded by Late Devonian to Early Mississippian Grass Lakes Plutonic Suite and Early Mississippian Simpson Range Plutonic Suite.

Wolverine Lake Group unconformably overlies Grass Lakes Group and hosts the Kuroko-style Wolverine Deposit. This deposit occurs in a thick sequence of Carboniferous rhyolitic metavolcanic rocks and carbonaceous argillite (Tucker *et al.*, 1997). Together, the Grass Lakes and Wolverine Groups have been interpreted to represent a continental back-arc rift to back-arc basin assemblage.

During Early Permian, YTT experienced regional shortening and uplift. The deformation and erosion of the Mississippian and Pennsylvanian rocks were followed by unconformable

deposition of Money Creek Formation. Money Creek Formation comprises carbonaceous phyllite and sandstone, varicoloured chert, chert-pebble conglomerate, and diamictite. This formation was emplaced atop units of Wolverine Lake Group in the Big Campbell Thrust Sheet and Tuchitua River Formation, Whitefish Limestone, White Lake Formation, King Arctic Formation and Finlayson Creek Limestone in the Money Creek Thrust Sheet by the Cleaver Lake and Money Creek Thrust Faults. Money Creek Formation is preserved in the Big Campbell and Money Creek Klippen.

The imbricated rocks of YTT are juxtaposed against rocks of SMT along the Jules Creek Fault. SMT of the Finlayson Lake District consists of Mississippian to Lower Permian Fortin Creek Group, Lower Permian Campbell Range Formation and spatially associated plutonic rocks, and Lower Permian limestone and quartzite. The Ice Deposit is hosted in Campbell Range Formation basalt (Hunt, 2002).

Middle Permian and younger sequences in the Finlayson Lake District are derived from, or deposited on both YTT and SMT. Middle Permian to Triassic Simpson Lake Group is composed of clastic rocks derived from both terranes and Middle Permian felsic and mafic metavolcanic rocks (Mortensen *et al.*, 1999). SMT, YTT and overlapping rocks are juxtaposed against Triassic shale and siltstone and older rocks of the North American continental margin sequence along the Inconnu Thrust Fault.

During the Mesozoic era, two types of intrusion were emplaced in the Finlayson area. The first comprises several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

PROPERTY GEOLOGY

Property-scale mapping of the Four Corners East property is shown on Figure 5. While outcrop is moderately abundant near ridge crests and along creek cuts in the central part of the property, bedrock is obscured by glacial till and vegetation elsewhere on the property. Unit descriptions and terminology used throughout this section are based on mapping done by the Yukon Geological Survey (Murphy and Piercey, 1999 and Murphy *et al.*, 2003).

The YTT rocks on the property mostly comprise meta volcanic units and laterally extensive ultramafic intrusions. The lowest stratigraphic unit consists of mafic metavolcanic rocks of Late Devonian Fyre Lake Formation (DF). This unit is conformably overlain by felsic metavolcanic rocks of Late Devonian Kudz Ze Kayah Formation (DK). These stratigraphic units have been intruded by Late Devonian, variably serpentinized ultramafic rocks (Dum). The youngest rocks in the vicinity of the Four Corners East property are found four kilometres to the west of the claim block, where the older units are cut by a north-northwesterly elongated, nearly 10 km long granitic stock (Kg). Unit descriptions are summarized in Table I.

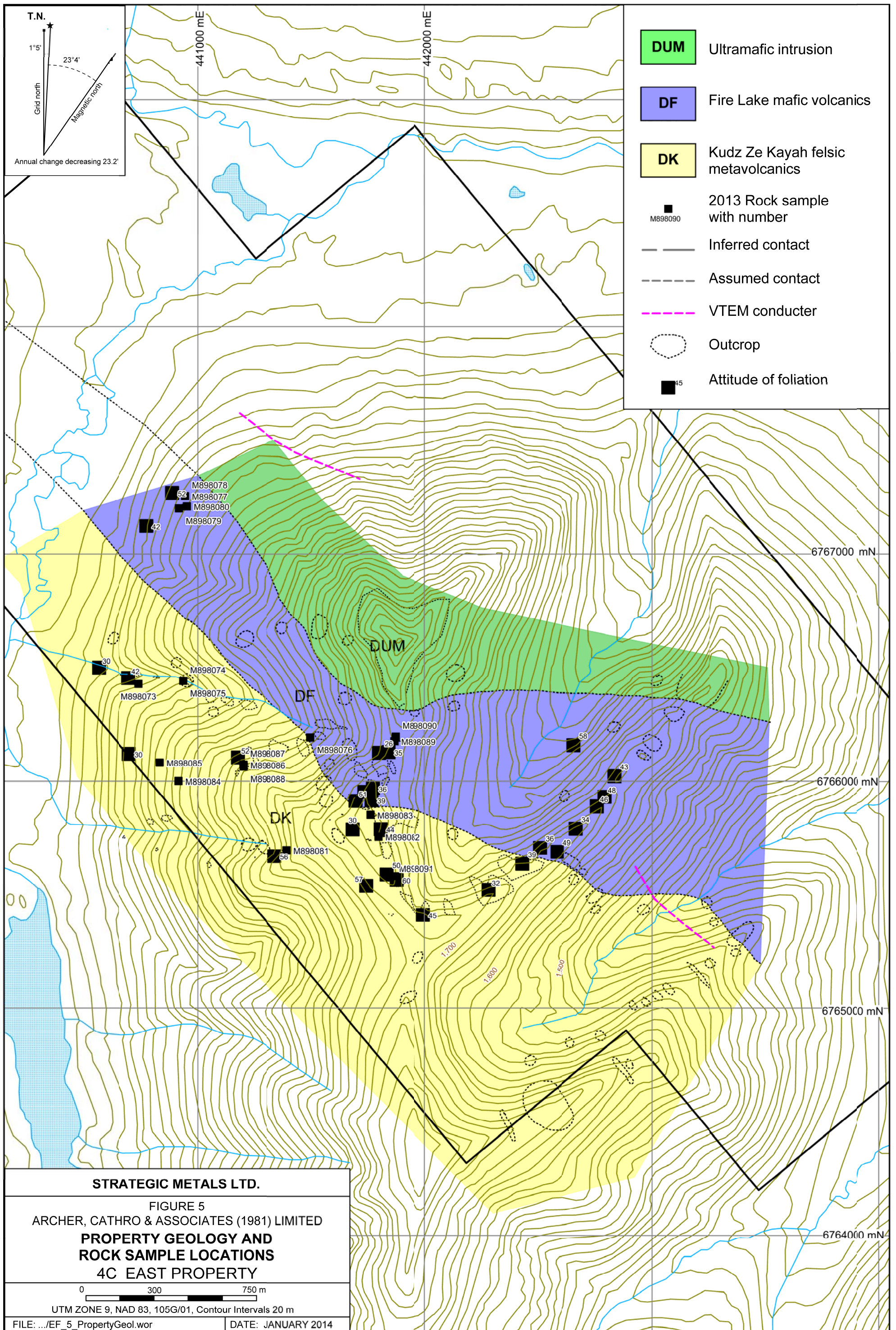


Table I: Lithological Units at the Four Corners East Property
(after Murphy and Piercey, 1999 and Murphy *et al.*, 2003)

Unit (Age)	Description
Kg (Mid-Cretaceous)	Massive to weakly foliated, medium to coarse grained biotite-muscovite granite, generally equigranular.
Dum (Late Devonian)	Brown weathering, dark green to black, variably serpentinized dunite, includes gabbro and/or pyroxenite locally.
DK (Late Devonian)	Kudz Ze Kayah felsic metavolcanic formation: feldspar-muscovite-quartz schist.
DF (Late Devonian)	Fyre Lake mafic metavolcanic formation: massive to subtly layered chlorite-biotite-plagioclase-actinolite schist.

Foliation attitudes strike northwesterly and dip moderately to the northeast. Compositional layering in the stratified rocks is approximately parallel to foliation.

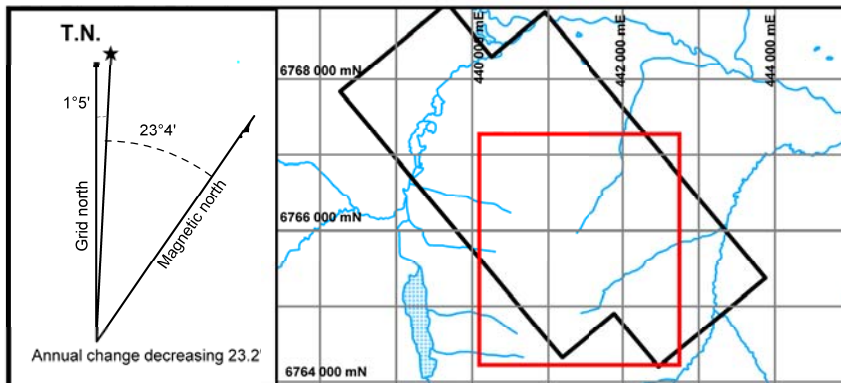
The Four Corners East property lies in a thrust window that is bound to the north and south by the Money Creek Thrust Fault. Although no faults have been mapped on the property, abundant quartz veins in the central part of the claim block indicate that extensional structures are present.

MINERALIZATION

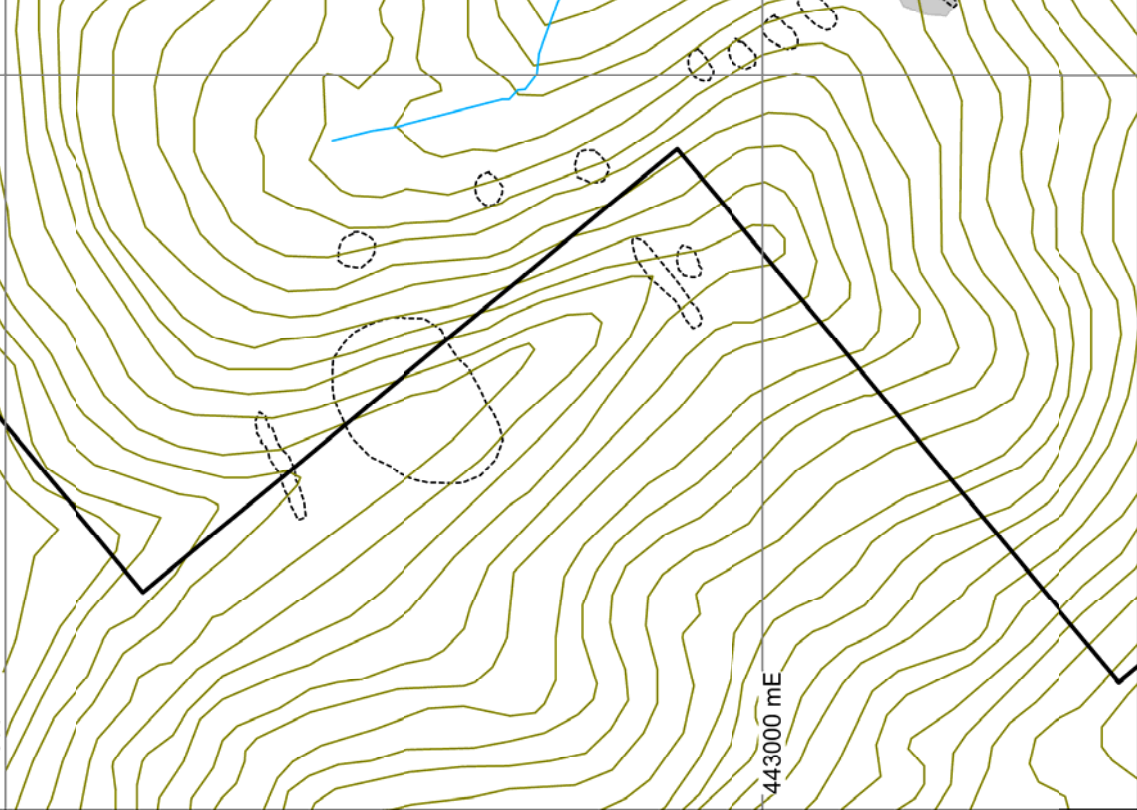
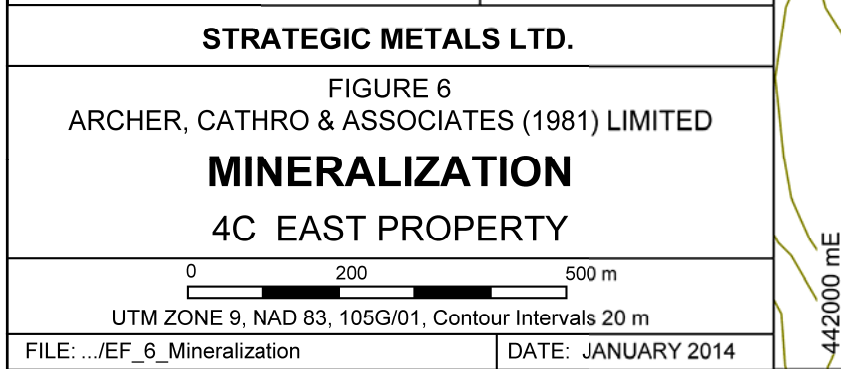
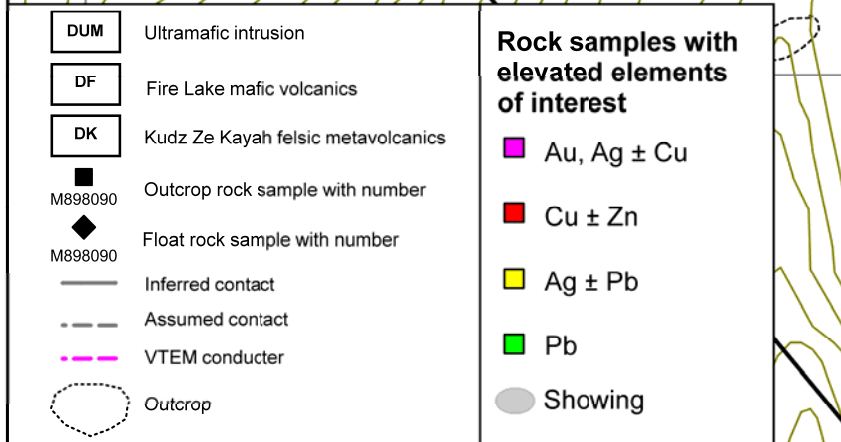
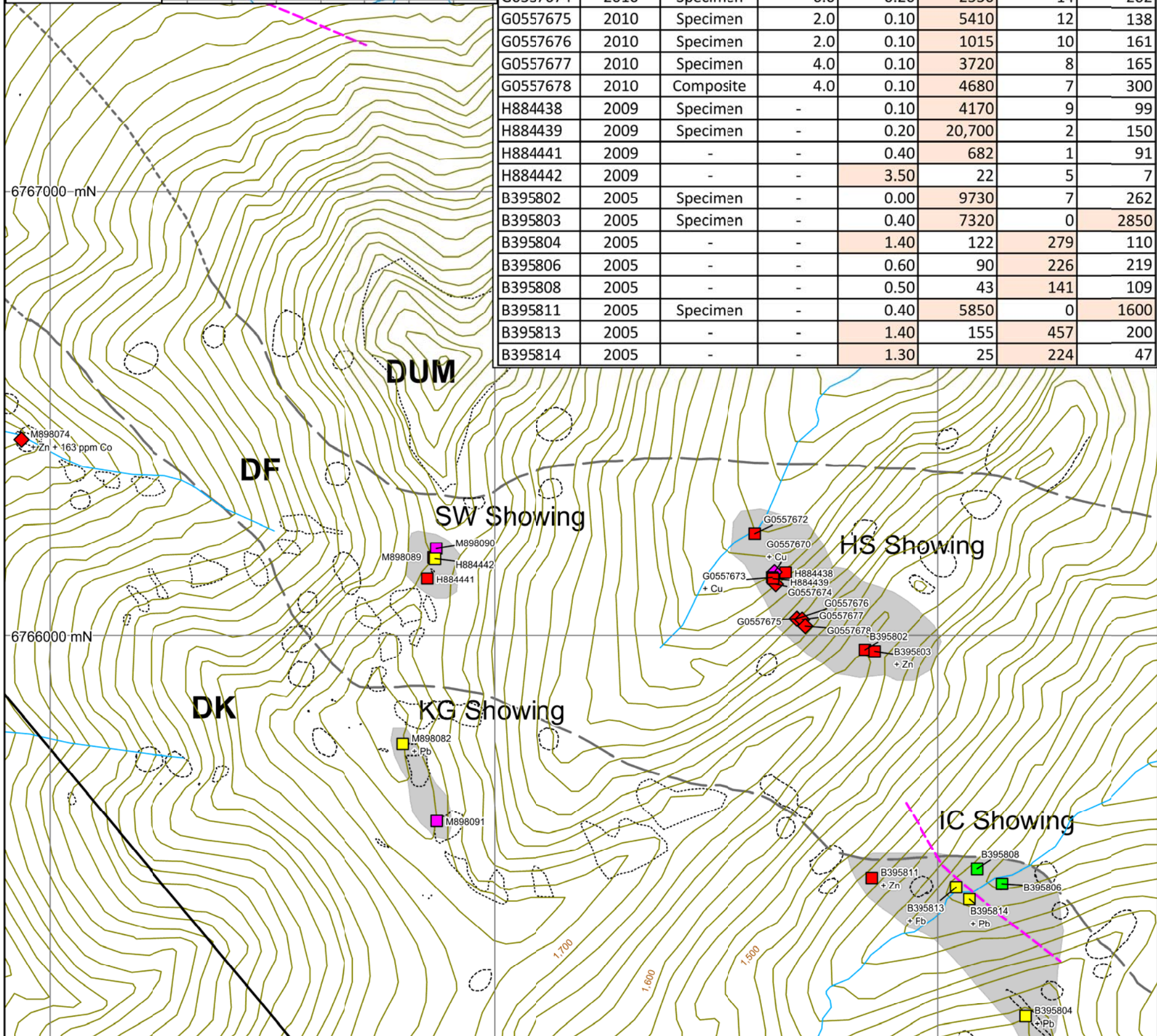
In 2013, a total of 19 rock samples were collected on the property as shown on Figure 5. Sampling and Analytical Procedures for 2013 and previous years are provided in Appendix III, Certificates of Analysis are provided in Appendix IV and Rock Sample Descriptions are given in Appendix V.

VMS-type mineralization has been discovered at four showings (IC, HS, SW and KG) and as float within a creek cut on the Four Corners East property (Figure 6). The showings are described in the following paragraphs.

The **IC Showing** is located in the easternmost part of the property. It comprises strataform, 1 to 15 cm thick bands of massive pyrite with rare sphalerite and galena that are hosted in siliceous felsic exhalite and argillite of the DK. Specimens of this banded mineralization reportedly contain up to 8000 ppm lead and 2000 ppm zinc, but the locations of these samples were not specified (Bannister and Holroyd, 1998; Senft, 1997; and Senft, 1998). Samples collected in the area by Strategic Metals in 2006 returned more subdued values, which range from 25 to 254 ppm copper (average of 118 ppm), 0.2 to 1.4 g/t silver (average of 0.8 g/t), 35 to 457 ppm lead (average of 181 ppm) and 47 to 387 ppm zinc (average of 170 ppm).



Sample ID	Year	Interval (m)	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
M898074	2013	Specimen	0.5	0.12	4460	8.7	596
M898082	2013	Composite	3.0	1.33	31.3	474	97
M898089	2013	0.75	74.0	0.39	516	4	168
M898090	2013	Specimen	215.0	4.78	7.7	6.8	2
M898091	2013	2.00	214.0	3.75	10.8	18.7	71
G0557670	2010	Specimen	80.0	1.80	1860	1	70
G0557672	2010	Composite	11.0	0.50	1460	3	227
G0557673	2010	Specimen	301.0	4.00	4140	1	33
G0557674	2010	Specimen	6.0	0.20	2550	14	202
G0557675	2010	Specimen	2.0	0.10	5410	12	138
G0557676	2010	Specimen	2.0	0.10	1015	10	161
G0557677	2010	Specimen	4.0	0.10	3720	8	165
G0557678	2010	Composite	4.0	0.10	4680	7	300
H884438	2009	Specimen	-	0.10	4170	9	99
H884439	2009	Specimen	-	0.20	20,700	2	150
H884441	2009	-	-	0.40	682	1	91
H884442	2009	-	-	3.50	22	5	7
B395802	2005	Specimen	-	0.00	9730	7	262
B395803	2005	Specimen	-	0.40	7320	0	2850
B395804	2005	-	-	1.40	122	279	110
B395806	2005	-	-	0.60	90	226	219
B395808	2005	-	-	0.50	43	141	109
B395811	2005	Specimen	-	0.40	5850	0	1600
B395813	2005	-	-	1.40	155	457	200
B395814	2005	-	-	1.30	25	224	47



The **HS Showing** lies in the east-central part of the property and is shown in detail on Figure 7. The terrain is moderately steep, but outcrop is rare due to thick vegetation. Mineralization discovered at this location in 2006 consists of limonite boxwork and limonitic chlorite schist in a small vegetation “kill zone” within the DF metavolcanics. Specimens of this limonite-rich material yielded between 0.42 and 0.97% copper with near background values for most other metals except cobalt (119 to 184 ppm) and zinc (262 to 2850 ppm). Malachite and azurite coated carbonate float was found downslope of the limonite showing. Two samples of this material assayed 0.47 and 2.07 % copper (Wengzynowski, 2006). Detailed prospecting and geological mapping conducted in 2010 along trend to the northwest of the showing delineated a 400 m long by about 10 m wide band of strongly quartz-carbonate altered DF metavolcanics (chloritic schist) with minor chalcopyrite and locally strong malachite and azurite coatings. In 2010, a total of 10 rock samples were collected along strike to the northwest of the HS Showing, while an additional nine were taken from a hand trench (see Hand Trenching section). Eight of these samples averaged 3104 ppm copper. Most samples returned subdued values for gold and silver, except one that yielded 301 ppb gold and 4.0 g/t silver. Zinc and cobalt values were generally weak, with the exception of one sample that returned 277 ppm cobalt.

In 2013, two new showings (SW and KG) were identified along ridge crests, and a mineralized specimen was collected along a creek draining the west side of the property.

The **SW Showing** is located 750 m west of the HS Showing and is characterized by limonite boxwork, quartz-carbonate alteration, and limonitic mica schist within DF. Specimen samples of quartz-carbonate altered schist collected from this area in 2009 returned 3.5 ppm silver and 582 ppm copper (not analyzed for gold). In 2013, a specimen sample of limonite boxwork returned 215 ppb gold, 4.78 ppm silver and 44.2 ppm antimony, while a 0.75 m chip sample of limonitic biotite schist returned 74 ppb gold and 516 ppm copper.

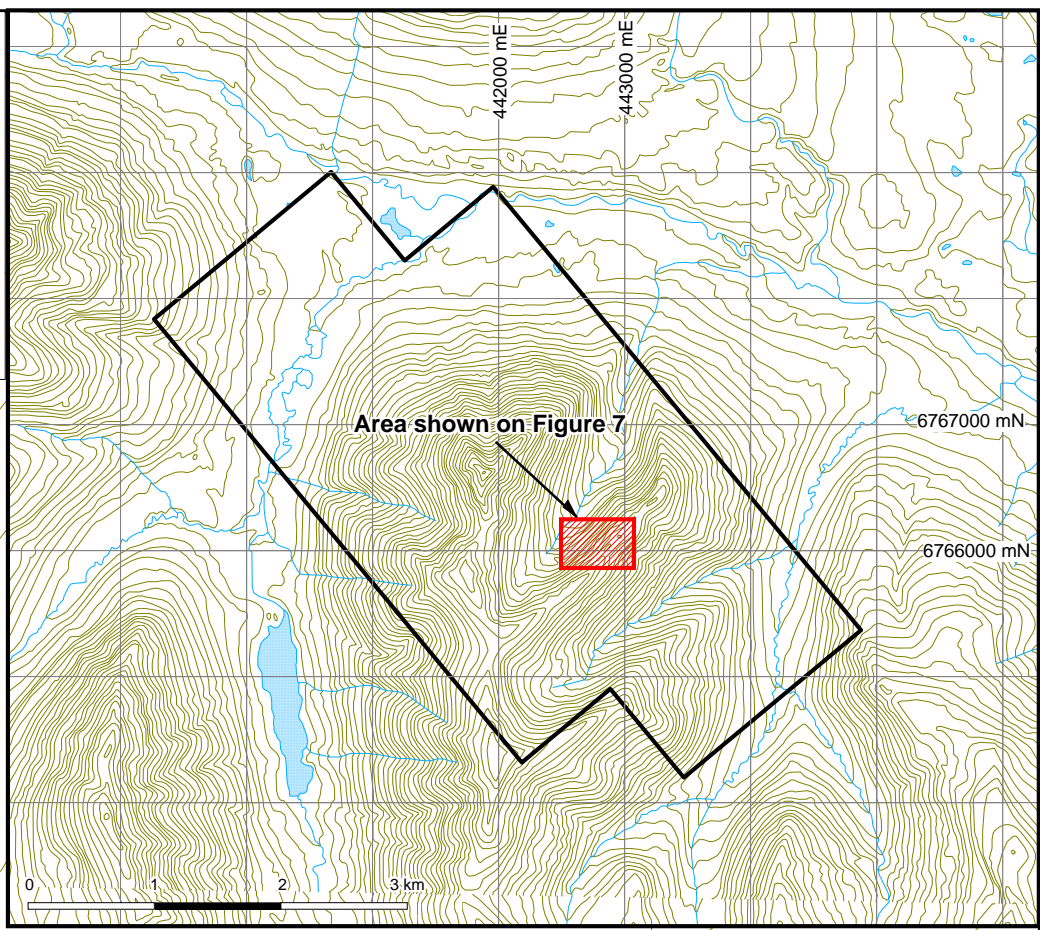
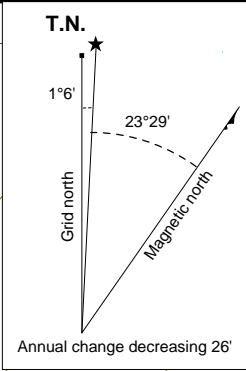
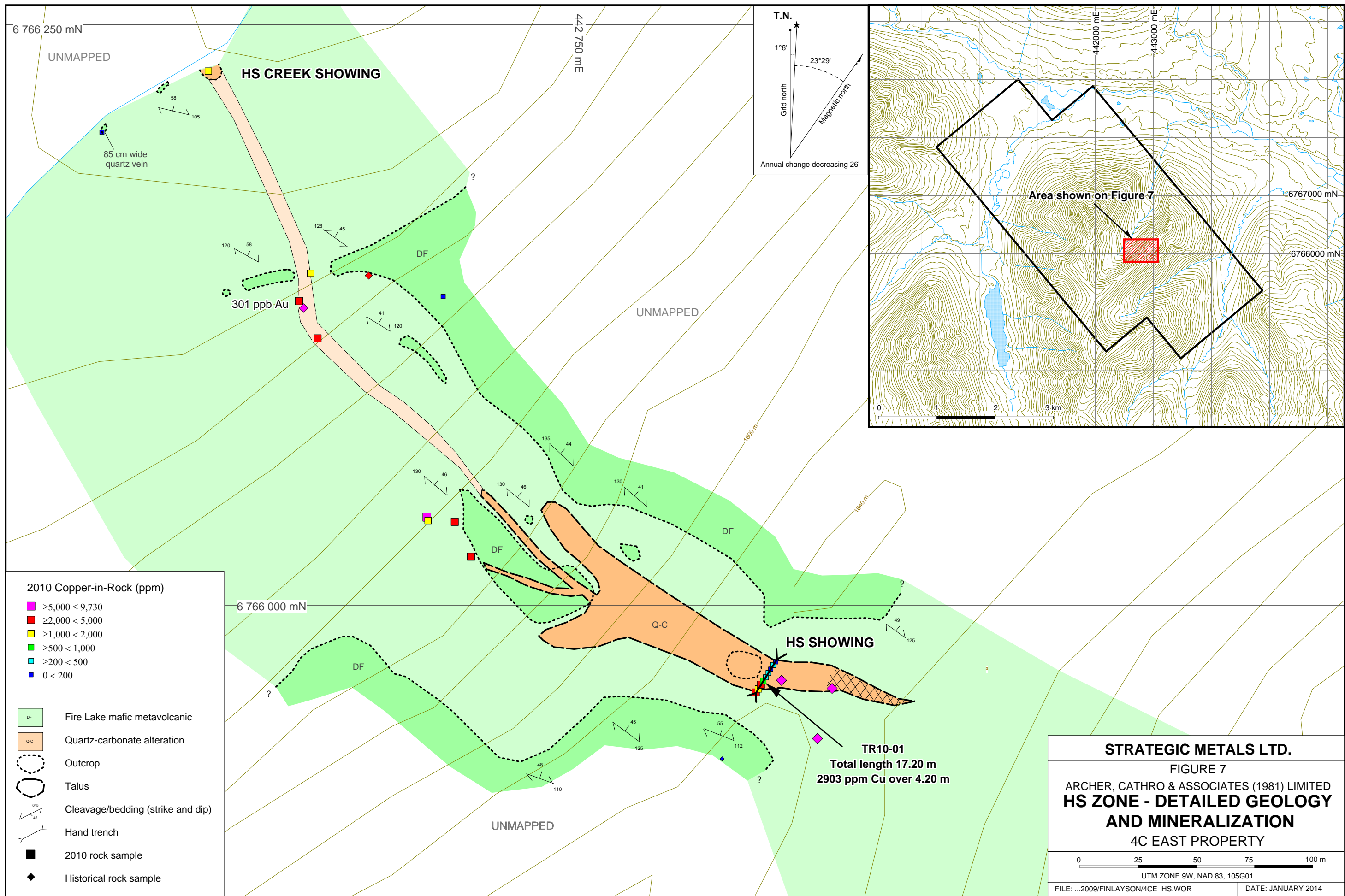
The **KG Showing** lies 1200 m west of the IC Showing and is hosted by DK. A composite chip sample of limonite-coated phyllite returned 1.33 ppm silver and 474 ppm copper, while a chip sample across limonitic felsic schist returned 214 ppb gold, 3.75 ppm silver and 100 ppm antimony over two metres.

The most copper-rich rock sample collected in 2013 was a specimen from a creek cut in heavily vegetated terrain about 1000 m west of the SW Showing. It yielded 4460 ppm copper and 596 ppm zinc with low values for other elements of interest.

SOIL GEOCHEMISTRY

Different parts of the Four Corners East property have been soil sampled at various times since 1996. Sampling and Analytical Procedures for all surveys are found in Appendix III, while Certificates of Analysis are provided in Appendix IV.

In 2013, a total of 270 soil samples were collected from the property as shown on Figure 8. Results for gold, silver, copper, lead, zinc, barium, nickel and cobalt are plotted on Figures 9 to 16, respectively.



2010 Copper-in-Rock (ppm)

■	$\geq 5,000 < 9,730$
■	$\geq 2,000 < 5,000$
■	$\geq 1,000 < 2,000$
■	$\geq 500 < 1,000$
■	$\geq 200 < 500$
■	$0 < 200$

- DF Fire Lake mafic metavolcanic
- Q-C Quartz-carbonate alteration
- Outcrop
- Talus
- ↙↘ Cleavage/bedding (strike and dip)
- ↖↗ Hand trench
- 2010 rock sample
- ◆ Historical rock sample

TR10-01
 Total length 17.20 m
 2903 ppm Cu over 4.20 m

STRATEGIC METALS LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

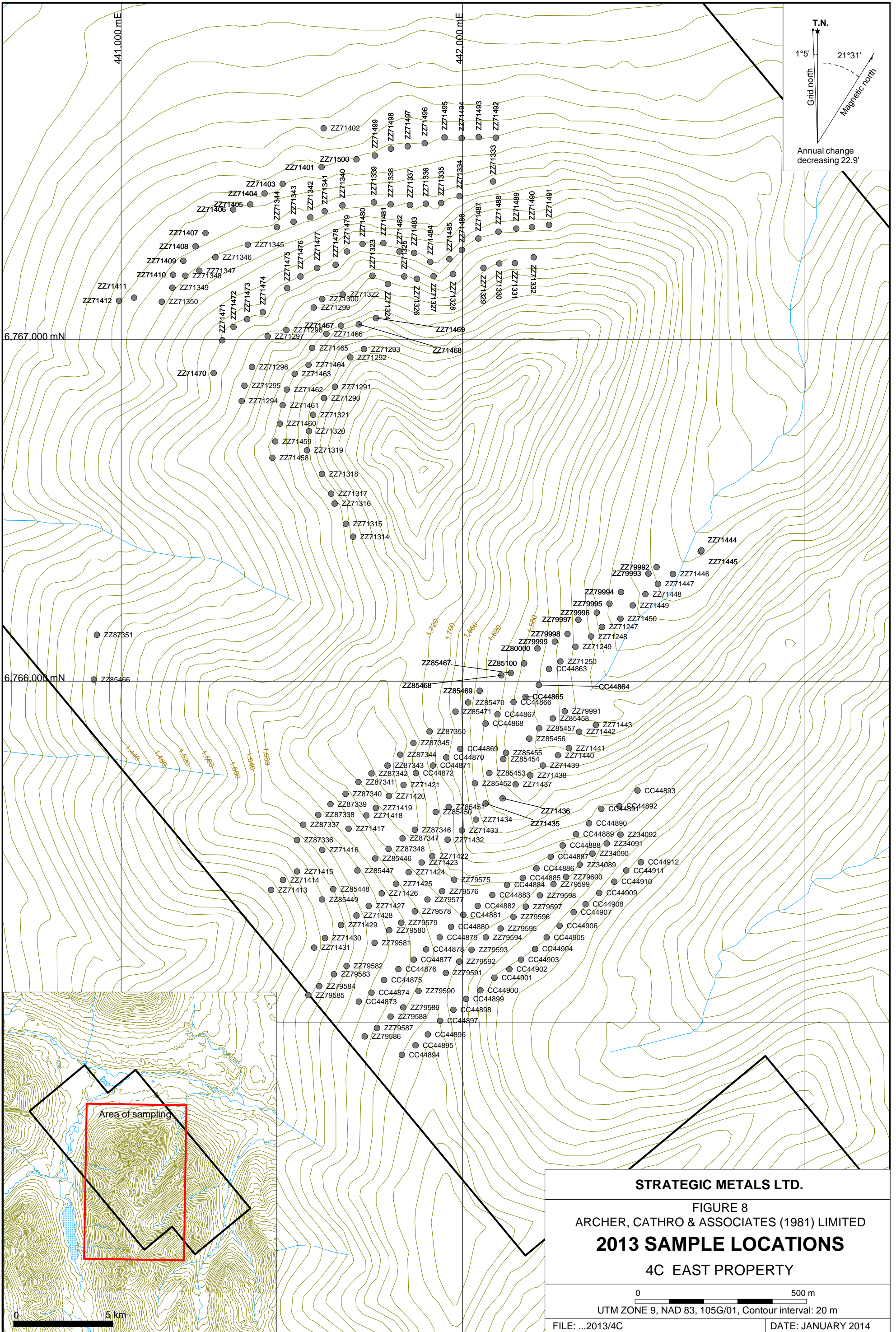
HS ZONE - DETAILED GEOLOGY AND MINERALIZATION

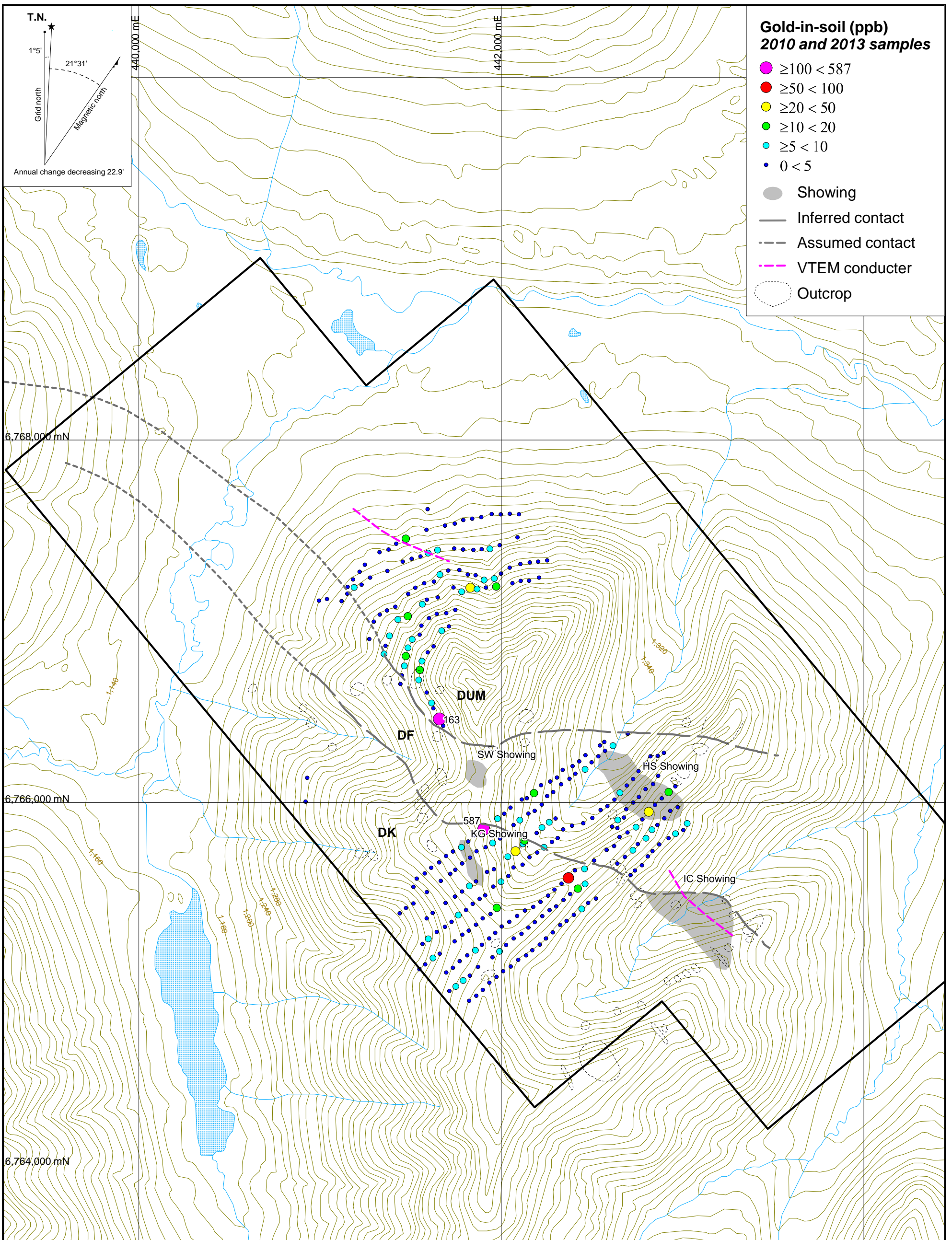
4C EAST PROPERTY

0 25 50 75 100 m

UTM ZONE 9W, NAD 83, 105G01

FILE: ...2009/FINLAYSON/4CE_HS.WOR DATE: JANUARY 2014





STRATEGIC METALS LTD.

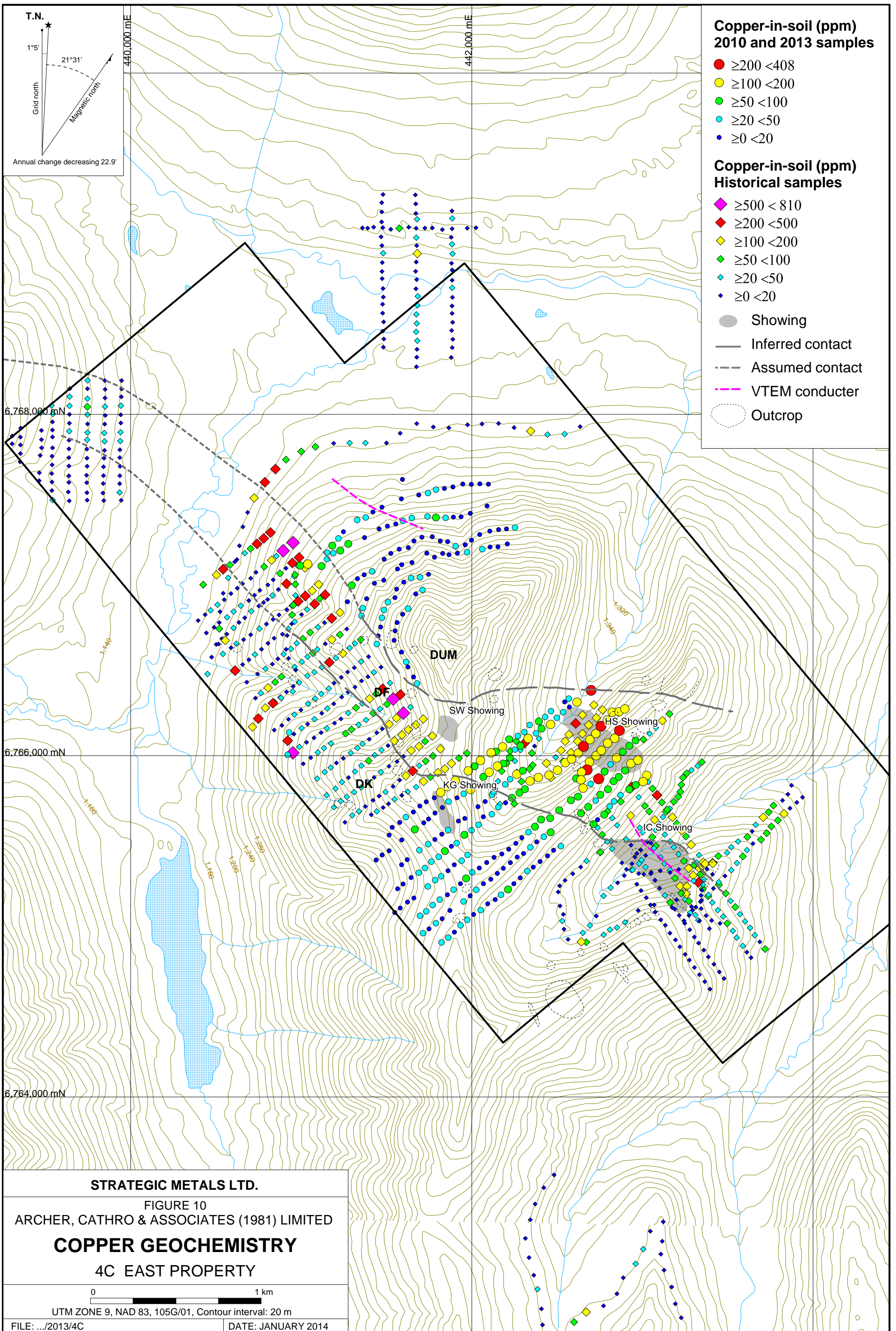
FIGURE 9
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD GEOCHEMISTRY
 4C EAST PROPERTY

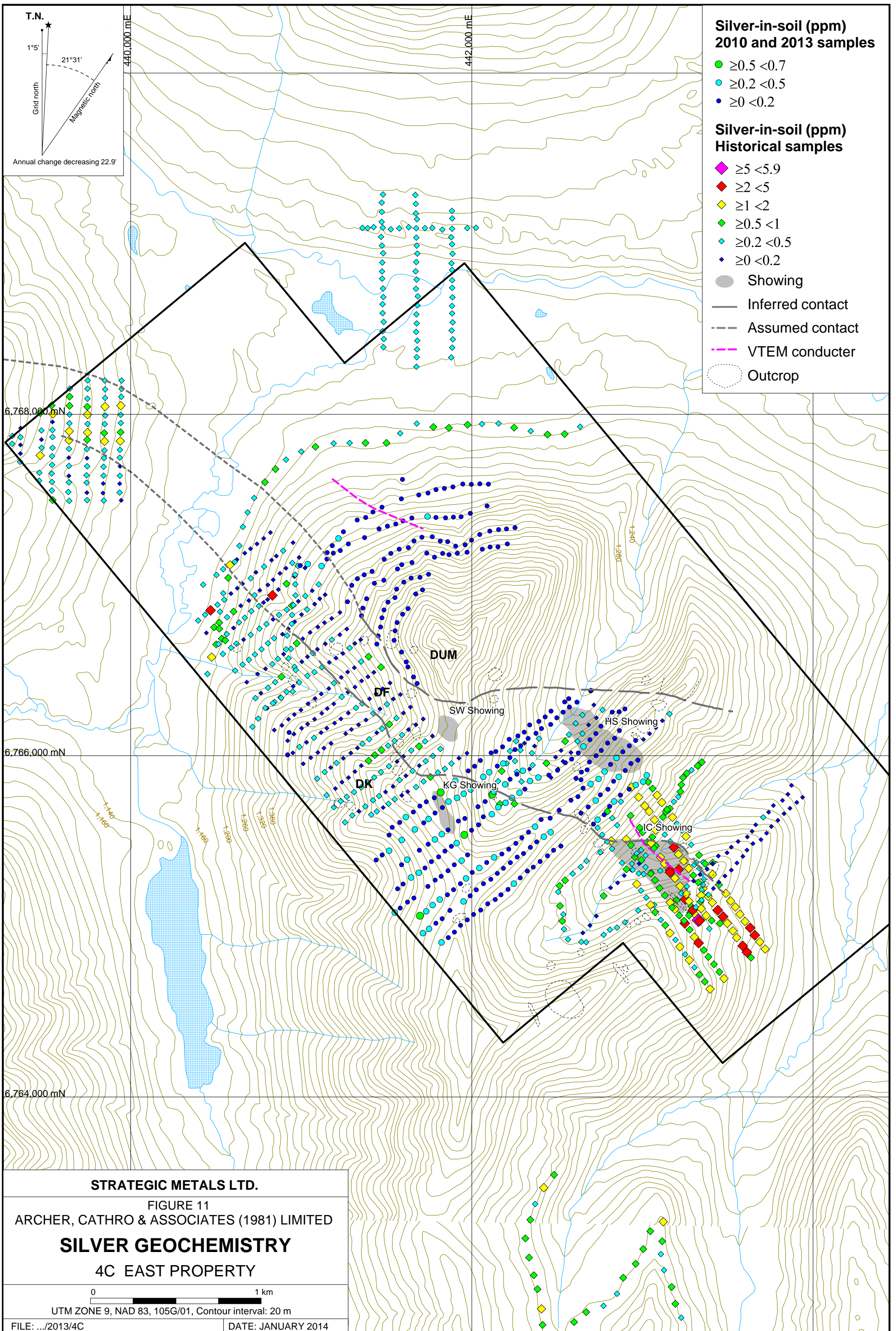
0 1 km

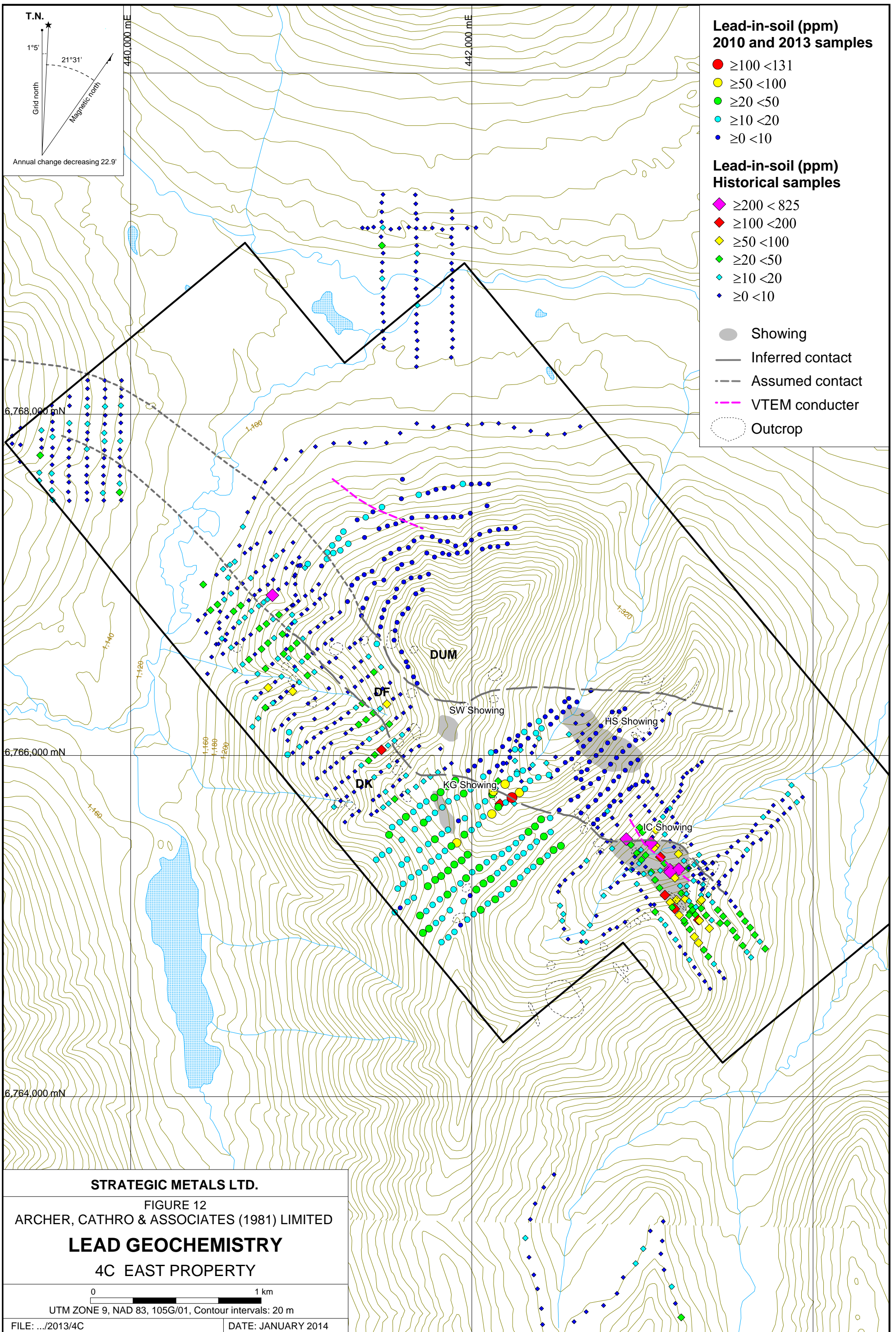
UTM ZONE 9, NAD 83, 105G/01, Contour interval: 20 m

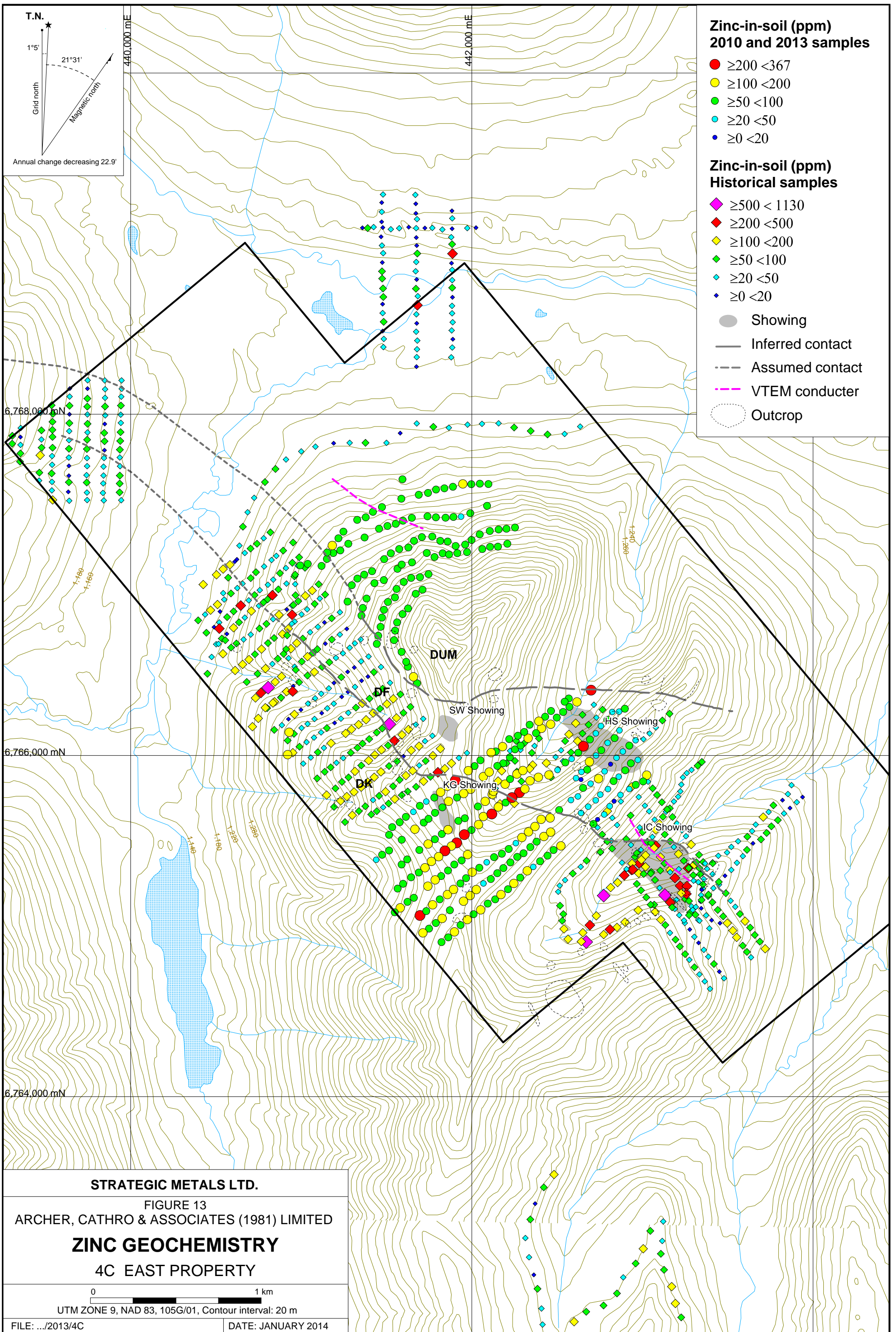
FILE: .../2013/4C

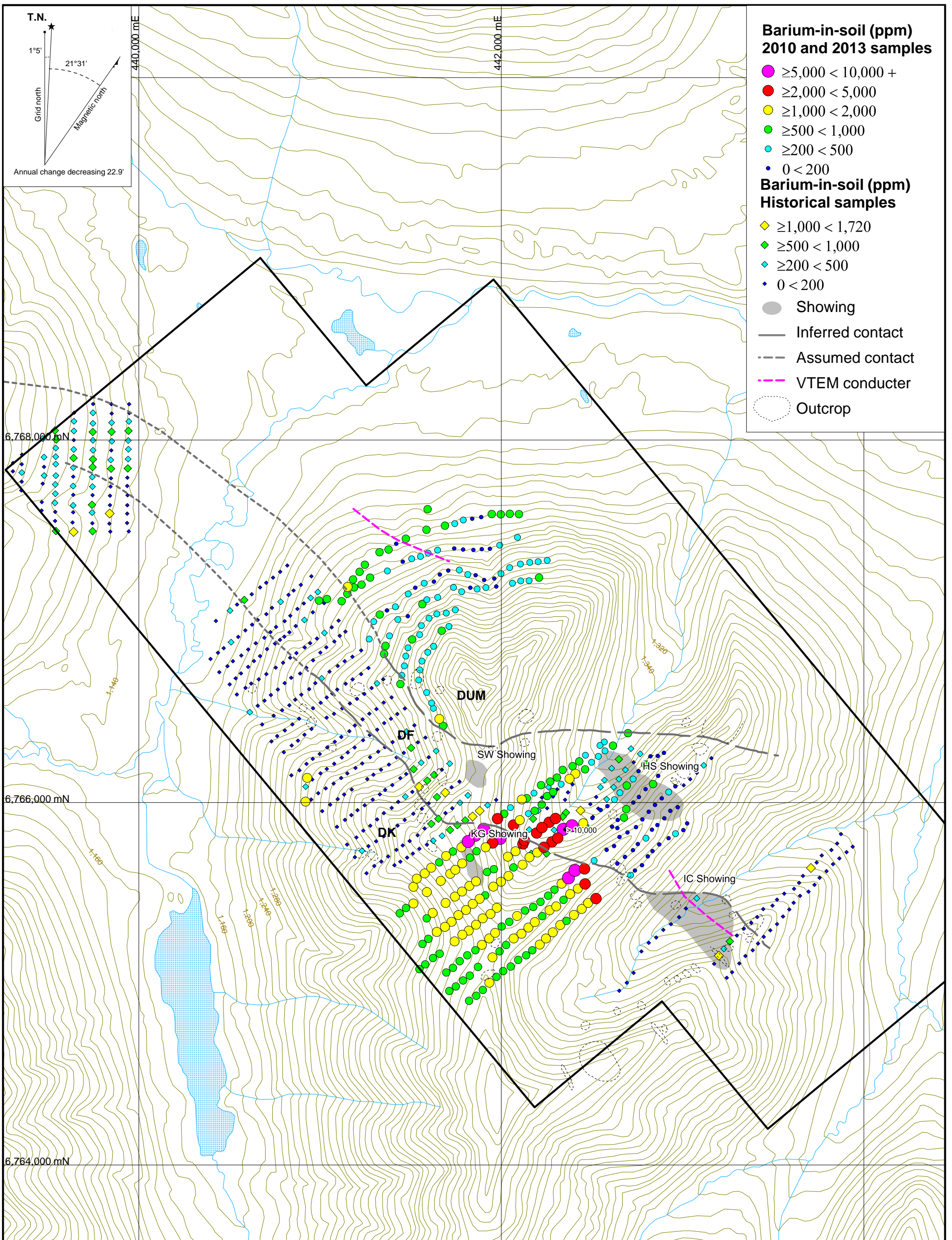
DATE: JANUARY 2014











STRATEGIC METALS LTD.

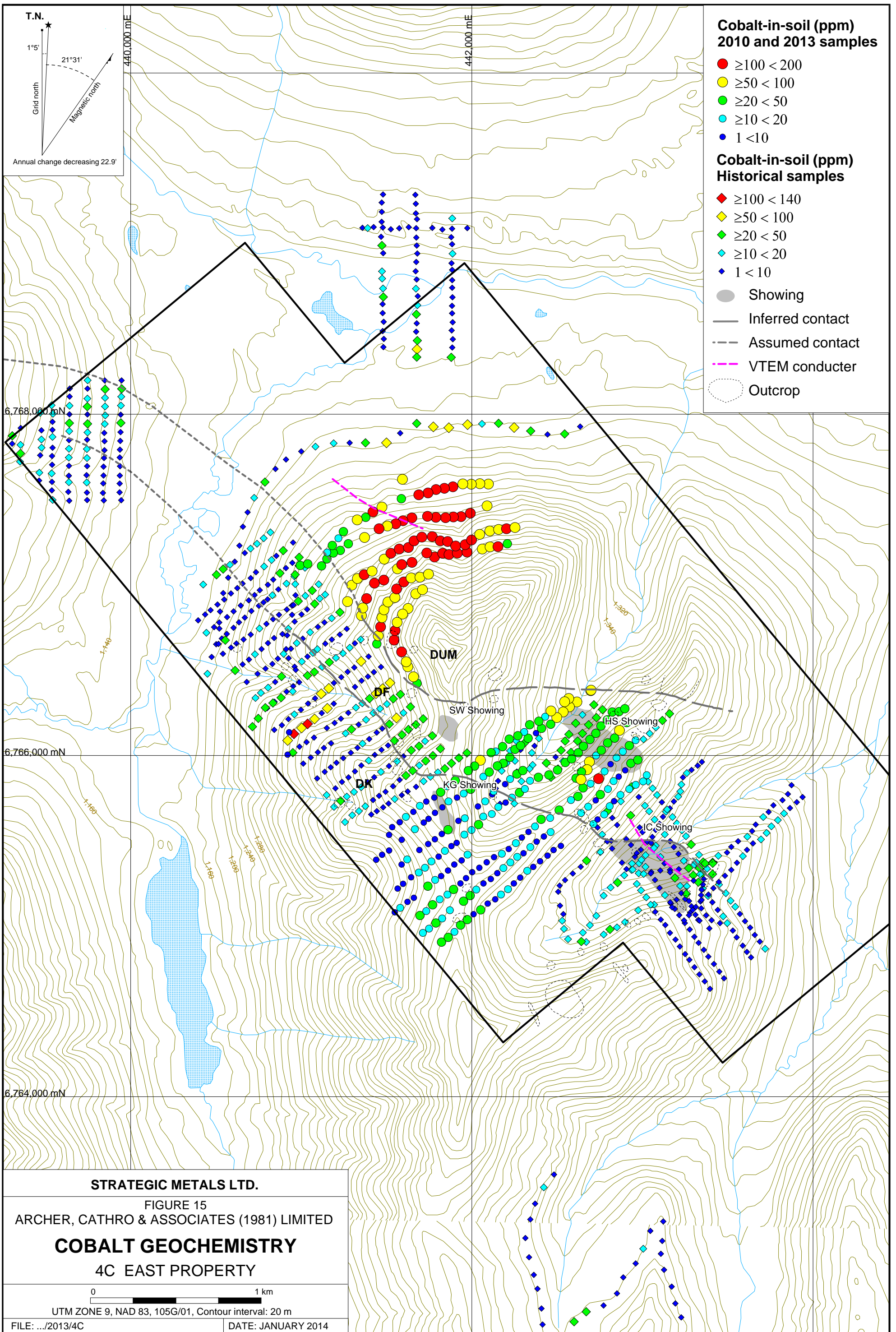
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
BARIUM GEOCHEMISTRY
4C EAST PROPERTY

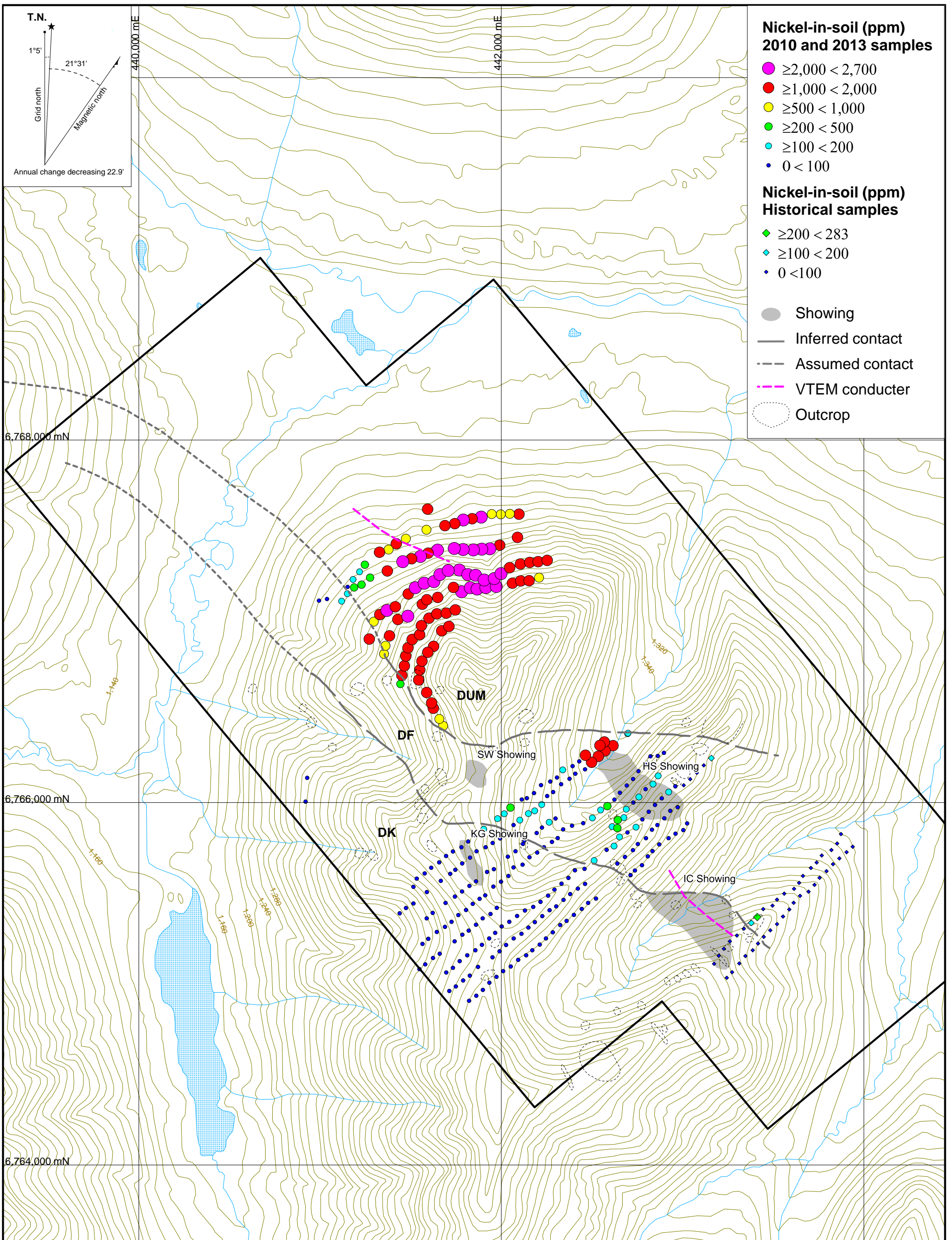
0 1 km

UTM ZONE 9, NAD 83, 105G/01, Contour interval: 20 m

FILE: .../2013/4C

DATE: JANUARY 2014





STRATEGIC METALS LTD.

FIGURE 16
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
NICKEL GEOCHEMISTRY
 4C EAST PROPERTY

0 1 km

UTM ZONE 9, NAD 83, 105G/01, Contour interval: 20 m

FILE: .../2013/4C

DATE: JANUARY 2014

Collectively, sampling has defined a relatively continuous 3000 by 500 m copper anomaly in the central part of the property. Values within this anomaly range from 100 to 810 ppm copper (Figure 10). The area of anomalous copper closely conforms to the inferred trace of the DF metavolcanic strata and encompasses the HS and SW showings. The largest cluster of high copper values is in a well vegetated area with no outcrop, about 2200 m west-northwest of the HS Showing. In 2013, hand pits were dug to follow up this copper anomaly and, although rock chips collected from the pits contained DF metavolcanics with trace disseminated pyrite, the samples of those rocks returned low values for copper and other elements of interest.

The strongest silver response is located within a 1000 by 300 m area in the southeastern corner of the claim block, at the southeast end of the main copper anomaly (Figure 11). This anomaly features values ranging from 1.0 to 5.9 ppm silver and remains open to the east. The strongest values were from samples within the DK metavolcanics. The IC Showing lies at the northwest edge of this anomaly. Scattered anomalous silver values (1.0 to 2.4 ppm) were also identified in the northwest corner of the property within the DF and DK.

Three areas of elevated lead values (50 to 825 ppm) occur within DK. The anomalous areas overlap with the IC and KG showings and a third area to the northwest of the KG showing (Figure 12). The strongest response closely correlates with silver and encompasses a 700 by 200 m area around the IC Showing.

Moderately to strongly anomalous zinc values are scattered through areas underlain by DK and DF, with the largest cluster in the vicinity of the IC Showing.

Strongly to very strongly anomalous barium values (2000 to >10,000 ppm) are concentrated immediately east of the KG Showing at the DK and DF contact. This anomaly encompasses a 600 by 200 m area and is open for expansion to the southeast (Figure 14). Pre-2013 geological analyses used a partial digestion technique that likely understated barium results.

A 1300 by 1100 m area of strongly anomalous coincident nickel (0.10 to 0.27 %) and cobalt (100 to 200 ppm) is located in the north-central part of the property within DUM (Figure 15 and 16, respectively). A smaller cluster of samples with the same nickel- and cobalt-rich signature occurs on the northwest edge of the HS Showing in an area underlain by DUM. These anomalies may attribute to high backgrounds in silicate minerals in the host rocks and not sulphide mineralization; however, they directly overlie a VTEM conductor. This conductor may be due to sulphide minerals in DUM or the underlying DF or DK.

Two, isolated very strongly anomalous gold-in-soil values occur on the property. The first gold value (163 ppb) lies at the contact between the DUM and DF, while the other gold value (587 ppb) is located at the contact between the DF and DK. No follow up work has been done to determine the source of either of these gold values.

HISTORICAL HAND TRENCHING

In 2010, a 17.2 m long hand trench was dug perpendicular to the trend of quartz-carbonate alteration at the HS Showing (Figure 7). Details of this trench can be found in Eaton (2011).

The trench is located in a saddle along a northeast-trending ridge – this site was chosen for its likelihood of reaching bedrock, and did not cross the strongest historical mineralization. The trench started in relatively unaltered DF biotite-chlorite schist (0.0 to 0.75 m) at its southwest end then transitioned into strongly quartz-carbonate altered schist. The transition zone was marked by gouge. Trace limonite and rare malachite were encountered within the quartz-carbonate alteration. At 16.5 m, the trench passed back into unaltered biotite-chlorite schist and once again the transition was marked by gouge. The strongest values were from the first three samples (southwest end), which averaged 2903 ppm copper over 4.20 m. The remainder of the samples yielded subdued values for all elements.

HISTORICAL GEOPHYSICS

In 2006, helicopter-borne magnetic and VTEM surveys were flown by Geotech Ltd. over a large portion of the Four Corners East property. In spring of 2009, data from those surveys were reprocessed and analyzed by Condor Consulting, Inc. Condor identified two northwesterly-trending conductors that may be related to VMS-style mineralization (Figures 5, 6, 9 to 16). One of these conductors is located in the north-central part of the claim block. Although it overlies ultramafic rocks, the favourable DF and DK are projected to dip beneath these rocks at a moderate angle. The strongest part of the copper-in-soil anomaly lies directly up-dip from this conductor. The other conductor coincides with the surface trace of the IC Showing.

DISCUSSION AND CONCLUSIONS

Work at the Four Corners East property suggests potential for Kuroko- and Besshi-type VMS mineralization within the Kudz Ze Kayah (DK) and Fyre Lake (DF) formations, respectively. Sampling across these formations has yielded soil geochemical anomalies that are locally associated with VTEM conductors.

The IC Showing contains low grade stratiform massive sulphide mineralization that could mark the outer edge of a buried deposit; however, the associated VTEM conductor is reported to be relatively shallow, which suggests mineralization does not improve at depth.

The HS and SW showings are most likely related as they exhibit similar alteration and textural characteristics. Both showings feature limonitic boxwork in a kill zone, which may be the surface representation of a massive sulphide horizon. If so, most of the copper-bearing sulphide minerals may have been leached by oxygenated groundwater and hydraulically transported downslope, where the dissolved copper precipitated as malachite and azurite in carbonate-rich environments. This proposed transport mechanism is similar to conditions at the Ice Deposit where limonite boxwork talus marks the leached sulphide horizon at surface and malachite-covered glacial till was found downslope. The strongest copper-in-soil geochemical response at the Four Corners East property is located in a heavily vegetated area about 2200 m west-northwest of the HS Showing. The VTEM survey identified a strong conductor down-dip of these highly anomalous copper-in-soil values and a specimen sample from a creek cut draining the west side of the anomalous area returned 4460 ppm copper.

No work has been done to determine the source of the very strong gold-in-soil values; however, due to the intense quartz-carbonate alteration and abundance of quartz-chalcedony veins it is possible that gold-bearing VMS horizons or veins may occur on the property.

The large barium-in-soil anomaly in the south-central part of the claim block is encouraging for the presence of a VMS deposit on the property as it may indicate a barite-rich exhalite horizon. In many felsic-hosted VMS systems, barium and zinc are enriched upward and outward from the core of the hydrothermal upwelling.

The next phase of exploration should include additional soil sampling, mapping, prospecting and hand trenching. Soil sampling should be completed west and southwest of the IC Showing to determine the extent of the existing silver-lead-zinc anomaly. It should also be done west and northwest of the HS Showing. Mapping and prospecting should be done in the vicinity of known showings and in creek cuts where bedrock may be exposed. Hand trenching should be done in the vicinity of strongly anomalous soil geochemical results. This trenching should focus on exposing zones of mineralization, but may also be useful for identifying barite-rich exhalite horizons or other VMS deposit characteristics. Samples of DUM should be collected from the area of high nickel-cobalt soil values to determine whether or not sulphide minerals are present.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



X. Montague, BSc (Hons), GIT

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Xéna Montague, geologist, with business address in Whitehorse, Yukon Territory and in Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2012 with a BSc (Hons) in Geological Sciences.
2. From 2011 to present, I have been actively engaged as a geologist in mineral exploration in the Yukon Territory.
3. I am a registered Geologist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have personally participated in and supervised the field work reported herein and have interpreted all data resulting from this work.



X. Montague, BSc., GIT

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
4C 289-292, 357-360, 383-386, 409-412,
435-438, 439, 440-450, 451-460, 461-482 Mineral Claims
March 9, 2013

Labour

D. Eaton – geologist – 3 hours May to December at \$120/hr	\$ 378.00
H. Burrell – geologist – 2 hours May to December at \$96/hr	201.60
X. Montague – geologist – 16 ½ Days May to December at \$576/day	9,979.20
S. Newman – office – 10 hours May to December at \$62/hr	651.00
L. Smith – office – 30 ½ hours May to December at \$62/hr	1,985.55
S. Wedge – field assistant – 64 hours August at \$51/hr	3,427.20
K. Gray – field assistant – 72 hours August at \$45/hr	3,402.00
Whitehorse Expediting and Support	<u>2,019.15</u>
	22,043.70

Expenses (incl. management)

Field room and board – 31 mandays @ \$135/day	4,745.79
Trans North Helicopters – 5 ¾ hours Bell 206B @ \$990/hr plus fuel	7,300.91
ALS Chemex	<u>10,798.65</u>
	22,845.35

Total \$ 44,889.05

Total 290 soil and rock samples = \$154.79/sample

APPENDIX III
SAMPLING AND ANALYTICAL PROCEDURES

GEOCHEMICAL SAMPLING AND ANALYTICAL PROCEDURES

1996 to 1998

Soil Samples

In 1996, 1997 and 1998 Cominco conducted soil sampling in the vicinity of the current 4C claim block. The samples were taken from B or C horizon soil at 100 m intervals on lines spaced approximately 100 m apart. Analytical techniques were not reported; however, judging from similar programs conducted by Cominco at the same time, the samples were probably sent to Cominco's exploration laboratory in Vancouver, B.C., where they were dried, sieved to -80 mesh and dissolved in aqua regia. They were likely then analyzed for 27 elements using the induced coupled plasma (ICP) technique, for gold using atomic absorption and for Ba using loose packed pellet X-ray fluorescence (XRF).

2005

Rock Samples

The 2005 soil and rock samples were sent to ALS Chemex Labs in North Vancouver. At ALS Chemex, the rocks were fine crushed to better than 70% - 2mm, then a 1 kg split was pulverized to better than 85% passing 75 microns. The resulting rock fractions were then dissolved in aqua regia and subsequently analyzed by inductively coupled plasma with atomic emission spectroscopy (ME-ICP41).

Soil Samples

The 2005 soil samples were located by means of compass and hip-chain surveys with frequent checks using handheld GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m thick wooden laths that were driven into the ground. Soil samples were collected from 40 to 60 cm deep holes dug by hand auger. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Chemex Labs in North Vancouver, where they were dried and sieved to minus 180 microns. The resulting soil fractions were then dissolved in aqua regia and subsequently analyzed by inductively coupled plasma with atomic emission spectroscopy (ME-ICP41).

2009

Rock Samples

Rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit.

The rock samples were sent to ALS Chemex in North Vancouver, B.C. where they were dried and fine crushed to better than 70% passing 2 mm. A 250 g split was then pulverized to better than 85% passing 75 micron. A portion of this material was digested in aqua regia and analysed for 35 elements by inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41).

Soil Samples

The 2009 soil samples were located by means of compass and hip-chain surveys with frequent checks using handheld GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m thick wooden lath that were driven into the ground. Soil samples were collected from 40 to 60 cm deep holes dug by hand auger. They were placed into individually pre-numbered Kraft paper bags.

The samples were sent to ALS Chemex in North Vancouver, B.C. where they were dried, screened to -180 microns, dissolved in an aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41).

2010

Rock Samples

Rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit.

Multi-element analyses for rock samples were carried out at ALS Chemex in North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing 2mm and then a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then analyzed for gold using fire assay with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21) and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (ME-ICP41).

Soil Samples

The 2010 soil samples were located by means of handheld GPS. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m thick wooden lath that were driven into the ground. Soil samples were collected from 40 to 60 cm deep holes dug by hand auger. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Chemex, where they were dried, screened to -180 microns, and then analyzed for 35 elements using ME-ICP41. An additional 30 g charge was further analysed for gold using fire assay with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21).

2013

Rock Samples

Rock sample sites were marked with flagging and recorded with hand-held GPS units. 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 analysed for 48 elements using a four acid digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge from each fine fraction was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

Soil Samples

The soil samples were taken on 50 by 100 m intervals, extending the previous grid. Six contour lines were sampled at 50 m spacings. Soil samples were collected from 30 to 60 cm deep holes dug by hand-held augers. All samples were placed into individually pre-numbered Kraft paper bags. Soil sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Sample locations were recorded using hand-held GPS units.

Soil 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 mass spectroscopy and 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 spectroscopy finish (Au-ICP21).

APPENDIX IV
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: 19-SEP-2013
 Account: MTT

CERTIFICATE WH13158585

Project: 4C East
 P.O. No.:

This report is for 19 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-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
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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

***** 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: 19-SEP-2013
 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13158585

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															
M898073		0.36	0.001	0.12	7.41	1.8	810	2.89	1.16	0.50	0.12	72.1	24.0	30	10.35	117.0
M898074		0.93	<0.001	0.12	7.88	0.8	1610	2.33	0.05	4.59	7.67	84.9	163.0	23	18.50	4460
M898075		1.45	0.002	0.06	5.20	0.8	110	2.19	0.03	8.05	0.05	22.1	32.7	31	0.79	87.5
M898076		0.43	0.001	0.03	1.99	<5	140	0.71	0.03	10.65	0.16	10.55	9.5	78	1.26	70.9
M898077		0.61	0.001	0.09	8.98	4.3	110	0.36	0.08	9.13	0.13	25.2	32.2	94	0.52	181.0
M898078		0.65	0.001	0.13	7.46	0.4	190	0.44	0.07	6.86	0.08	24.3	25.0	34	0.58	66.2
M898079		0.62	0.001	0.06	8.52	0.4	460	0.27	0.09	8.60	0.21	24.2	48.7	206	0.80	103.5
M898080		0.10	<0.001	0.05	7.67	<0.2	90	0.49	0.04	6.02	0.16	19.00	47.1	81	0.50	44.2
M898081		0.69	<0.001	0.01	5.08	<0.2	1140	1.58	0.08	2.68	<0.02	93.9	1.9	8	2.74	2.5
M898082		0.51	0.003	1.33	2.66	28.9	2270	3.21	0.18	0.12	0.16	47.1	1.5	56	5.62	31.3
M898083		0.03	0.001	0.14	2.23	21.2	1470	8.21	0.11	0.18	0.35	70.8	19.4	35	8.33	38.8
M898084		0.02	0.003	0.33	4.79	3.1	820	0.96	0.67	1.91	0.18	111.5	4.4	12	1.94	16.1
M898085		0.54	0.001	0.34	5.48	15.0	1280	0.32	0.88	0.40	0.04	59.3	0.6	8	3.17	3.8
M898086		0.19	0.003	0.39	5.37	73.3	1060	2.51	2.86	0.08	<0.02	81.2	1.5	7	0.66	20.7
M898087		1.36	0.001	0.13	6.60	1.8	920	3.44	0.45	3.10	0.32	98.3	15.9	41	11.55	55.2
M898088		0.40	0.003	0.42	5.53	79.2	820	2.84	3.13	0.33	0.02	112.5	1.6	6	1.03	11.9
M898089		0.59	0.074	0.39	4.85	1.1	160	0.22	0.13	1.18	0.08	11.25	22.4	42	1.15	516
M898090		0.13	0.215	4.78	3.72	0.8	390	1.17	0.03	0.03	0.02	12.55	0.9	109	1.47	7.7
M898091		0.90	0.214	3.75	5.92	40.4	1140	2.26	0.25	0.03	0.05	60.3	2.4	17	1.79	10.8



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Page: 2 - B
 Total # Pages: 2 (A - D)
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 Finalized Date: 19-SEP-2013
 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13158585

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																
M898073		8.98	25.2	0.09	2.3	0.096	5.80	35.5	43.5	3.58	2300	1.81	0.21	12.0	15.1	1460
M898074		8.10	20.4	0.08	5.9	0.074	1.12	39.1	14.9	1.35	3130	1.38	2.38	18.9	71.9	2500
M898075		7.99	11.40	<0.05	0.5	0.061	0.03	10.0	31.2	3.40	1640	0.58	0.01	13.0	36.4	700
M898076		4.68	3.53	<0.05	0.2	0.013	0.05	5.6	36.0	4.77	1740	0.20	0.03	4.2	27.7	220
M898077		7.74	30.2	<0.05	0.6	0.094	0.14	11.1	6.7	2.54	958	1.25	1.79	9.8	38.5	810
M898078		8.98	16.25	0.05	0.4	0.062	0.18	9.9	8.4	4.58	1270	1.24	2.61	11.9	14.8	820
M898079		8.32	19.80	<0.05	0.4	0.068	0.51	10.3	8.7	3.79	1340	0.28	1.41	13.2	106.0	810
M898080		8.29	22.3	0.21	0.4	0.092	0.11	7.5	14.7	4.79	1180	0.21	2.18	11.1	48.4	600
M898081		1.85	20.1	0.18	5.4	0.063	3.08	40.9	28.4	0.40	484	2.48	0.12	30.8	2.2	420
M898082		4.70	9.88	0.17	0.7	0.037	1.07	26.8	16.3	0.20	93	7.43	0.06	4.1	5.0	1470
M898083		24.8	8.49	0.59	0.8	0.021	0.53	26.3	6.4	0.08	5710	2.33	0.03	4.4	115.0	160
M898084		2.70	10.90	0.25	5.1	0.075	5.44	51.7	13.6	0.76	616	6.90	0.20	24.1	5.8	240
M898085		1.13	14.90	0.16	5.8	0.037	6.02	29.6	3.8	0.24	180	3.74	0.21	21.8	1.8	220
M898086		3.56	18.50	0.20	6.2	0.050	4.70	39.6	10.0	0.16	75	23.7	0.83	6.4	1.7	130
M898087		4.03	21.2	0.29	4.9	0.111	5.27	48.2	16.9	1.69	1560	8.16	0.39	21.2	15.9	720
M898088		3.55	23.2	0.24	6.8	0.062	4.39	54.9	4.9	0.15	95	50.7	1.69	5.4	1.6	130
M898089		11.45	17.55	0.24	0.2	0.056	0.18	4.8	6.1	2.58	897	1.35	1.82	10.3	16.7	410
M898090		0.85	8.53	0.07	0.3	<0.005	0.04	6.3	94.0	0.03	40	0.48	0.02	4.8	2.3	230
M898091		5.53	21.5	0.14	2.8	0.085	1.10	31.7	38.7	0.04	38	5.57	0.05	45.3	8.0	840



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 Finalized Date: 19-SEP-2013
 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13158585

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
M898073		9.5	411	<0.002	0.11	0.22	30.6	1	3.7	41.8	0.75	<0.05	8.6	1.160	1.98	3.0
M898074		8.7	25.6	0.002	0.05	0.06	25.0	2	2.2	482	1.05	<0.05	5.1	1.350	0.36	1.3
M898075		<0.5	2.6	0.003	0.48	0.40	35.2	2	0.6	82.5	0.75	<0.05	1.0	0.892	0.09	0.2
M898076		1.5	2.9	<0.002	0.10	0.59	11.4	1	0.3	120.0	0.23	<0.05	0.4	0.176	0.04	0.1
M898077		2.6	2.3	0.005	0.49	0.28	36.5	3	1.4	544	0.53	<0.05	0.7	0.795	0.03	0.3
M898078		2.6	4.8	0.003	0.10	0.11	52.6	4	1.0	290	0.66	0.06	0.9	1.200	0.02	0.2
M898079		5.8	11.5	<0.002	0.07	0.19	44.8	2	1.3	612	0.75	<0.05	1.1	0.975	0.08	0.3
M898080		3.0	1.6	<0.002	<0.01	0.08	43.8	2	1.2	178.0	0.67	<0.05	1.0	0.903	0.02	0.2
M898081		2.9	60.3	<0.002	0.01	0.11	7.6	2	5.5	30.8	2.15	<0.05	15.7	0.317	0.28	3.2
M898082		474	51.4	<0.002	0.33	3.22	7.2	4	1.1	98.4	0.24	0.24	6.1	0.115	2.86	1.9
M898083		8.6	33.9	0.002	0.02	0.11	39.8	6	0.8	27.3	0.30	0.08	4.0	0.103	0.76	4.5
M898084		29.6	87.7	<0.002	0.04	0.28	5.9	2	4.1	21.9	1.65	<0.05	17.2	0.161	0.54	4.4
M898085		20.4	110.5	<0.002	0.03	3.01	4.9	2	5.2	53.1	1.55	<0.05	20.1	0.199	6.88	5.7
M898086		21.4	104.0	0.005	1.17	2.71	3.1	1	5.4	24.0	0.48	<0.05	23.0	0.088	5.41	4.9
M898087		16.5	186.5	0.013	0.30	0.41	19.0	1	6.5	110.5	1.48	<0.05	15.6	0.613	1.68	4.3
M898088		59.7	128.5	0.013	1.41	2.61	2.2	2	5.8	28.8	0.51	<0.05	25.0	0.088	7.36	5.3
M898089		4.0	6.9	0.002	0.13	0.07	32.2	6	0.7	62.7	0.63	0.33	0.9	0.974	0.07	0.2
M898090		6.8	2.7	<0.002	0.01	44.2	4.0	1	1.4	96.3	0.32	0.07	0.6	0.469	0.61	0.3
M898091		18.7	34.6	<0.002	0.02	99.8	7.2	6	8.6	103.0	2.77	<0.05	13.3	0.680	0.21	3.5

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



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 Total # Pages: 2 (A - D)
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 Finalized Date: 19-SEP-2013
 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13158585

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
M898073		271	1.5	23.4	286	124.5
M898074		198	0.5	60.6	596	274
M898075		300	16.3	31.6	33	7.1
M898076		66	1.1	15.0	29	3.9
M898077		373	0.5	36.9	45	11.7
M898078		378	0.3	42.9	41	7.3
M898079		305	0.3	31.3	92	7.4
M898080		345	0.2	32.3	66	6.2
M898081		29	2.4	35.6	4	212
M898082		215	1.4	10.3	97	28.7
M898083		135	1.1	142.5	299	29.5
M898084		11	1.1	44.7	15	225
M898085		16	2.2	21.0	8	220
M898086		9	1.3	9.8	12	228
M898087		168	2.7	44.1	179	131.5
M898088		13	0.9	9.1	3	245
M898089		294	0.2	20.6	168	5.3
M898090		107	21.6	11.9	2	9.7
M898091		29	13.7	34.2	71	147.0



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 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13158585

	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. <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> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td>PUL-31</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-QC	SPL-21	WEI-21	PUL-31
CRU-31	CRU-QC	LOG-22							
PUL-QC	SPL-21	WEI-21	PUL-31						
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: 67%;">ME-MS61</td> </tr> </table>	Au-ICP21	ME-MS61						
Au-ICP21	ME-MS61								



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

CERTIFICATE WH13157938

Project: 4C East
 P.O. No.:
 This report is for 271 Soil samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-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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CERTIFICATE OF ANALYSIS WH13157938

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															
CC44863		0.13	0.001	0.17	6.06	1.2	840	0.97	0.18	3.49	0.15	52.0	25.0	240	11.20	33.2
CC44864		0.20	0.001	0.17	6.94	0.7	870	1.12	0.13	3.43	0.14	41.6	31.5	296	6.77	66.6
CC44865		0.22	0.002	0.20	6.38	0.7	860	1.15	0.17	3.06	0.20	44.9	32.2	278	15.05	57.2
CC44866		0.27	0.002	0.13	7.79	<0.2	280	1.67	0.04	4.13	0.09	15.80	42.0	337	10.50	107.0
CC44867		0.19	0.006	0.22	7.74	1.3	1370	1.94	0.11	3.01	0.20	33.3	37.1	276	17.10	101.0
CC44868		0.25	0.001	0.26	6.50	3.4	4530	1.93	0.27	0.83	0.11	80.3	16.0	98	7.16	82.4
CC44869		0.17	0.003	0.40	8.08	6.2	7020	2.80	0.20	0.56	0.21	108.5	38.1	178	21.4	125.0
CC44870		0.23	0.009	0.41	8.89	5.1	2920	6.32	0.29	0.26	0.51	202	10.9	51	22.0	40.8
CC44871		0.26	0.002	0.20	9.40	3.0	1060	7.25	0.32	0.16	0.17	226	5.0	14	22.8	15.2
CC44872		0.22	0.003	0.39	8.17	7.3	850	9.82	0.50	0.87	1.16	367	19.0	15	19.75	23.0
CC44873		0.22	0.004	0.91	7.88	4.4	860	6.55	0.29	1.31	0.67	173.0	32.2	78	9.16	44.1
CC44874		0.18	0.003	0.30	5.82	2.9	710	2.70	0.19	1.25	0.28	99.2	12.8	87	6.43	21.9
CC44875		0.22	0.003	0.32	7.84	3.2	760	5.93	0.23	1.33	0.35	145.5	20.2	64	14.35	27.8
CC44876		0.21	0.001	0.26	6.93	3.1	910	3.78	0.24	1.61	0.30	116.5	17.8	64	5.83	23.4
CC44877		0.12	0.006	0.19	6.29	2.2	850	2.32	0.22	1.24	0.31	90.5	14.5	54	5.42	19.3
CC44878		0.28	0.002	0.14	7.21	2.1	1070	3.21	0.25	0.99	0.27	106.5	23.7	71	7.94	28.4
CC44879		0.18	0.001	0.11	6.85	1.7	1180	2.12	0.46	0.30	0.10	118.0	3.9	20	3.12	14.3
CC44880		0.24	0.001	0.20	8.23	3.6	1160	3.46	0.75	0.40	0.08	133.5	9.1	40	6.19	50.7
CC44881		0.14	0.002	0.08	7.24	0.6	950	3.88	0.26	0.13	0.16	184.0	6.9	9	6.46	32.3
CC44882		0.13	0.002	0.43	5.74	2.9	970	2.42	0.36	0.50	0.27	99.8	5.0	27	5.60	18.1
CC44883		0.20	0.001	0.19	5.68	2.0	1030	1.88	0.35	0.55	0.22	87.9	6.5	34	8.04	11.9
CC44884		0.17	0.004	0.33	5.65	7.2	940	1.76	0.38	0.81	0.21	109.5	7.7	63	4.91	15.8
CC44885		0.23	0.001	0.12	6.74	4.2	860	3.60	0.31	1.20	0.09	133.5	13.9	47	11.20	16.0
CC44886		0.23	0.002	0.08	8.40	4.6	760	4.88	0.46	0.41	0.10	164.0	8.9	41	7.15	12.4
CC44887		0.18	0.002	0.09	7.11	6.7	920	4.55	0.44	0.77	0.06	147.0	16.4	35	18.15	18.3
CC44888		0.23	0.002	0.10	8.40	3.8	800	7.28	0.41	0.30	0.30	158.5	7.0	37	17.75	13.1
CC44889		0.19	0.001	0.15	8.24	6.1	1340	5.56	0.29	0.67	0.27	173.0	6.6	24	15.95	29.8
CC44890		0.13	0.053	0.28	8.26	3.0	6340	3.24	0.27	0.46	0.41	108.5	18.4	128	6.40	79.6
CC44891		0.16	0.002	0.09	11.35	10.9	7670	3.11	0.21	0.03	0.08	84.7	23.5	154	9.58	93.2
CC44892		0.25	0.005	0.11	6.57	5.8	4160	2.03	0.23	0.74	0.15	87.9	19.2	110	12.55	78.3
CC44893		0.20	0.002	0.09	6.17	1.4	350	0.79	0.08	4.21	0.16	31.4	38.2	318	2.41	97.3
CC44894		0.23	0.002	0.27	7.23	5.7	750	4.18	0.17	1.98	0.22	108.0	24.0	81	11.90	25.8
CC44895		0.26	0.002	0.13	7.84	5.2	700	3.45	0.17	1.70	0.14	78.8	30.5	175	10.40	39.6
CC44896		0.15	0.003	0.13	7.16	3.1	890	4.73	0.23	0.94	0.41	165.0	11.3	48	9.75	16.6
CC44897		0.23	0.002	0.18	8.84	3.6	1090	5.60	0.38	0.82	0.24	189.5	21.8	46	17.45	25.8
CC44898		0.22	0.001	0.10	8.38	1.8	810	3.08	0.21	1.93	0.22	57.8	28.8	85	11.45	29.6
CC44899		0.12	0.001	0.18	6.27	2.1	730	1.93	0.21	1.63	0.15	52.0	8.4	21	3.76	18.2
CC44900		0.18	0.001	0.12	7.73	3.5	790	3.71	0.62	1.14	0.39	88.5	24.5	120	11.45	29.2
CC44901		0.15	0.001	0.12	6.41	1.8	780	1.84	0.29	1.15	0.13	61.2	8.3	22	3.77	16.9
CC44902		0.14	<0.001	0.18	5.59	1.4	740	1.34	0.19	1.37	0.51	40.3	7.5	10	3.15	15.4



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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	ppm
LOR																
CC44863		4.73	20.3	0.11	2.0	0.068	1.17	26.2	12.9	2.54	872	1.00	1.27	18.0	90.2	770
CC44864		5.73	18.85	0.13	1.3	0.066	0.77	20.7	19.7	2.66	904	0.98	1.23	14.4	125.0	1010
CC44865		5.72	20.7	0.13	1.6	0.069	0.95	22.7	18.1	2.55	1460	0.98	1.13	16.7	103.5	1160
CC44866		6.21	19.35	0.11	0.5	0.072	0.38	6.7	26.7	2.94	884	0.31	1.42	9.3	136.5	660
CC44867		5.73	19.60	0.13	0.9	0.073	0.88	16.4	33.1	2.57	1050	0.89	1.32	12.1	112.5	1020
CC44868		3.85	20.0	0.13	3.0	0.060	1.90	37.8	21.0	0.65	1130	2.67	1.02	17.9	59.6	1090
CC44869		6.87	24.4	0.24	2.0	0.092	2.08	42.1	57.9	1.79	2630	2.89	0.37	39.2	91.3	1630
CC44870		4.22	33.6	0.27	6.6	0.141	3.64	91.4	50.8	0.92	1190	4.45	0.33	41.7	28.7	770
CC44871		4.00	39.2	0.24	10.0	0.187	4.05	62.8	62.5	0.91	927	5.67	0.26	49.3	11.3	540
CC44872		5.41	41.9	0.55	8.2	0.333	5.35	166.5	42.7	1.20	2190	3.94	0.30	42.4	27.4	1080
CC44873		7.29	29.0	0.39	3.0	0.183	4.34	75.9	89.8	1.44	1880	3.03	0.50	35.8	47.3	1330
CC44874		3.87	19.95	0.16	3.2	0.083	2.62	49.2	32.9	1.13	773	1.43	0.76	27.1	28.0	2110
CC44875		5.60	29.0	0.28	3.3	0.123	3.14	73.6	71.9	1.49	1160	1.37	0.77	39.1	31.6	1610
CC44876		4.78	24.1	0.21	3.2	0.098	3.46	55.3	41.2	1.44	853	1.35	0.80	32.3	27.4	1630
CC44877		4.44	23.0	0.18	3.1	0.094	3.49	43.2	25.1	1.30	803	1.43	0.84	28.2	19.7	1530
CC44878		5.10	23.9	0.22	3.1	0.101	3.98	49.9	38.7	1.84	931	1.24	0.75	28.8	32.8	1170
CC44879		1.92	25.0	0.16	6.8	0.082	4.97	58.2	12.5	0.65	373	2.51	0.76	25.7	5.8	680
CC44880		4.32	29.6	0.22	6.5	0.110	4.41	64.3	25.3	1.26	700	4.23	0.88	31.8	15.5	730
CC44881		3.47	30.3	0.16	6.1	0.107	3.47	44.5	28.1	1.23	898	5.35	0.23	38.5	5.6	440
CC44882		2.25	19.85	0.12	4.8	0.068	3.80	48.7	18.6	0.50	291	2.07	0.53	19.7	10.4	1510
CC44883		2.84	23.3	0.16	4.6	0.077	4.76	41.5	13.8	0.55	638	1.72	0.44	26.3	10.4	930
CC44884		4.75	23.6	0.19	3.7	0.100	2.63	53.4	25.0	0.81	439	2.71	0.79	28.0	17.9	560
CC44885		5.05	27.7	0.24	3.6	0.140	4.09	62.0	42.1	1.34	959	1.58	0.64	30.4	19.5	1160
CC44886		3.51	30.1	0.18	6.8	0.102	4.25	65.0	45.0	0.71	532	3.59	0.58	31.8	16.0	570
CC44887		3.47	36.0	0.20	5.2	0.176	4.85	61.5	41.4	0.98	584	1.81	0.54	35.8	15.9	1460
CC44888		4.02	30.6	0.20	7.1	0.113	3.37	60.3	64.5	0.90	550	3.61	0.45	35.9	13.7	760
CC44889		3.61	32.4	0.20	7.2	0.131	3.75	72.5	66.0	0.76	630	4.24	0.83	38.4	15.6	630
CC44890		4.57	24.1	0.17	2.7	0.085	1.87	49.3	28.4	0.58	1700	2.61	0.44	21.1	72.5	940
CC44891		3.34	48.6	0.14	3.1	0.129	2.16	29.0	32.4	0.41	1060	5.99	0.16	24.3	70.5	600
CC44892		3.91	19.55	0.12	2.2	0.065	1.82	38.5	40.0	1.30	1230	1.63	0.74	15.5	66.4	640
CC44893		5.22	14.70	0.12	0.9	0.050	0.59	15.3	36.9	3.65	738	0.54	1.18	9.7	198.0	650
CC44894		5.96	25.5	0.24	1.8	0.126	4.10	54.9	63.7	1.54	1880	1.26	0.69	36.9	33.4	1200
CC44895		5.57	23.0	0.18	2.0	0.082	2.89	38.6	60.0	1.78	1130	1.04	1.03	22.6	59.8	1050
CC44896		5.09	27.6	0.22	2.8	0.145	3.07	71.3	60.7	1.42	754	1.64	1.23	47.1	20.4	1090
CC44897		5.48	34.3	0.31	4.8	0.186	4.27	92.2	46.7	0.87	1800	2.51	0.44	44.4	24.7	1550
CC44898		7.27	26.0	0.15	1.9	0.103	3.13	25.7	55.0	2.46	970	0.85	1.05	20.8	35.2	1630
CC44899		2.96	19.55	0.11	3.4	0.058	2.21	26.5	21.3	0.77	1080	1.66	1.71	11.4	9.3	1890
CC44900		6.63	24.1	0.22	3.8	0.100	3.48	38.2	38.8	1.96	1240	1.66	0.70	26.0	43.0	1770
CC44901		2.48	19.35	0.18	3.9	0.047	2.15	30.2	19.7	0.60	922	1.89	1.76	14.8	7.6	1430
CC44902		1.66	14.80	0.16	3.3	0.027	1.85	20.6	15.7	0.49	1400	1.64	1.97	8.2	5.0	1360

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



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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	
CC44863	10.2	71.6	<0.002	0.02	0.56	26.7	2	2.5	132.5	1.20	0.05	6.4	0.716	0.30	1.7	
CC44864	8.2	36.8	<0.002	0.03	0.35	30.5	3	1.6	138.5	0.92	0.05	4.8	0.756	0.21	1.3	
CC44865	8.5	62.1	<0.002	0.04	0.49	28.6	2	2.0	117.5	1.09	0.05	5.4	0.745	0.27	1.4	
CC44866	1.7	7.0	<0.002	0.02	0.25	37.4	3	1.1	164.5	0.58	<0.05	0.8	0.883	0.09	0.3	
CC44867	6.0	38.3	<0.002	0.05	0.20	32.3	2	1.3	152.0	0.74	<0.05	3.2	0.788	0.27	1.0	
CC44868	17.0	71.6	<0.002	0.07	0.34	14.8	2	1.9	260	1.19	0.07	10.9	0.495	0.53	3.5	
CC44869	18.8	110.5	<0.002	0.07	0.25	28.5	3	2.3	99.1	2.46	0.09	10.8	0.956	1.58	2.6	
CC44870	43.1	168.5	<0.002	0.05	0.33	16.3	3	8.1	94.5	2.62	0.06	30.0	0.433	1.51	6.1	
CC44871	16.2	158.5	<0.002	0.04	0.32	12.8	3	11.5	59.4	3.12	0.06	34.0	0.350	1.02	7.7	
CC44872	15.0	142.5	0.002	0.02	0.84	22.9	6	12.7	91.6	2.96	0.09	48.2	0.704	1.54	14.7	
CC44873	34.3	186.5	<0.002	0.07	0.47	26.5	4	6.1	104.5	2.20	<0.05	16.4	0.909	2.66	3.9	
CC44874	14.1	94.3	<0.002	0.10	0.36	16.8	3	4.3	92.0	1.84	0.05	13.8	0.547	0.43	2.8	
CC44875	14.6	135.0	<0.002	0.04	0.36	20.3	3	5.9	119.0	2.54	<0.05	17.8	0.651	0.61	3.4	
CC44876	12.4	128.0	<0.002	0.04	0.44	19.3	3	4.7	104.5	2.05	<0.05	14.2	0.769	0.62	3.0	
CC44877	22.4	121.5	<0.002	0.06	0.41	16.9	3	5.0	95.5	1.76	<0.05	11.9	0.683	0.71	2.8	
CC44878	15.2	151.5	<0.002	0.03	0.32	18.4	3	5.4	85.7	1.84	<0.05	14.9	0.722	1.02	3.0	
CC44879	17.0	163.5	<0.002	0.04	0.37	8.3	2	7.6	45.5	1.87	<0.05	23.2	0.353	1.12	5.3	
CC44880	24.8	166.5	<0.002	0.11	0.57	13.5	2	8.1	51.7	2.14	0.05	26.1	0.536	1.79	6.6	
CC44881	11.2	111.0	<0.002	0.02	0.42	9.7	2	9.3	31.0	2.62	<0.05	21.1	0.293	0.69	4.7	
CC44882	47.9	136.0	<0.002	0.11	0.53	9.2	2	5.1	97.7	1.39	<0.05	17.0	0.349	0.97	4.6	
CC44883	13.4	208	<0.002	0.07	0.51	10.3	2	5.6	67.2	1.70	0.05	16.9	0.471	0.99	3.9	
CC44884	16.8	103.5	<0.002	0.04	1.03	13.6	3	4.7	115.5	1.87	0.06	16.4	0.589	0.61	3.8	
CC44885	12.9	151.5	<0.002	0.02	0.67	18.3	3	5.4	86.8	2.06	<0.05	18.8	0.802	0.70	3.5	
CC44886	11.4	161.5	<0.002	0.01	0.64	12.8	2	7.6	89.4	2.21	0.05	25.6	0.500	0.79	6.3	
CC44887	12.4	150.5	<0.002	0.03	0.74	21.3	3	8.5	83.8	2.37	0.05	18.1	0.947	0.68	4.3	
CC44888	19.8	153.0	<0.002	0.03	0.38	13.6	2	8.7	68.9	2.48	0.05	26.4	0.445	0.71	6.0	
CC44889	20.7	143.5	<0.002	0.02	0.46	11.8	2	9.1	174.0	3.05	0.05	24.8	0.365	1.14	5.7	
CC44890	21.7	74.1	<0.002	0.03	0.46	21.1	3	2.8	167.0	1.45	0.10	16.4	0.608	0.62	4.2	
CC44891	24.9	69.9	<0.002	0.01	0.14	25.5	3	4.6	74.8	1.66	0.09	11.3	0.668	0.42	3.8	
CC44892	17.7	94.0	<0.002	0.02	0.72	16.0	2	2.2	122.5	1.12	0.10	10.9	0.437	0.65	2.5	
CC44893	5.1	29.6	<0.002	0.04	0.39	24.9	2	1.0	118.5	0.65	0.05	3.5	0.566	0.15	0.9	
CC44894	15.0	113.0	<0.002	0.06	0.28	25.6	3	4.5	103.0	2.26	0.05	11.1	0.870	1.13	1.8	
CC44895	11.9	88.7	<0.002	0.05	0.35	24.9	3	2.9	119.0	1.48	0.05	8.6	0.718	0.53	1.9	
CC44896	15.9	117.0	<0.002	0.04	0.33	14.2	3	6.6	91.7	2.98	<0.05	18.7	0.527	0.53	2.8	
CC44897	9.9	133.5	<0.002	0.01	0.27	26.6	4	9.1	67.8	2.64	<0.05	23.6	0.939	0.66	4.7	
CC44898	10.0	111.0	<0.002	0.04	0.26	25.0	2	3.2	237	1.28	<0.05	6.1	0.999	0.73	1.4	
CC44899	10.2	74.8	<0.002	0.10	0.42	9.4	1	2.3	380	0.79	<0.05	8.9	0.367	0.38	2.7	
CC44900	20.4	153.0	<0.002	0.06	0.44	23.1	2	4.9	114.0	1.64	0.06	12.1	0.824	0.86	2.7	
CC44901	13.6	76.5	<0.002	0.06	0.50	6.1	1	2.5	338	1.06	<0.05	10.7	0.304	0.46	2.6	
CC44902	21.4	60.2	<0.002	0.10	0.42	4.4	1	1.4	392	0.62	<0.05	7.4	0.210	0.55	2.3	



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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
CC44863		201	1.3	18.7	77	78.7
CC44864		206	1.1	20.0	88	47.3
CC44865		212	1.3	19.5	91	63.8
CC44866		247	0.5	22.1	74	10.1
CC44867		220	1.5	19.5	100	35.1
CC44868		128	2.6	17.5	138	123.0
CC44869		221	2.3	21.3	189	86.4
CC44870		91	5.4	46.4	146	254
CC44871		30	6.8	43.9	73	368
CC44872		117	5.8	128.0	142	342
CC44873		171	3.7	61.3	236	132.5
CC44874		106	1.6	29.2	76	145.5
CC44875		113	1.9	48.4	133	130.0
CC44876		130	1.9	43.6	88	146.5
CC44877		116	1.7	31.3	121	133.5
CC44878		116	2.2	34.9	138	124.0
CC44879		48	2.9	16.3	54	246
CC44880		79	3.9	23.4	94	242
CC44881		38	3.8	20.5	109	251
CC44882		59	2.4	23.0	84	178.0
CC44883		75	2.2	26.7	40	186.0
CC44884		99	2.3	32.6	55	146.5
CC44885		135	2.8	45.9	55	146.0
CC44886		91	4.0	33.8	61	245
CC44887		171	4.6	47.6	33	208
CC44888		73	3.8	27.6	124	264
CC44889		61	8.8	34.6	104	264
CC44890		173	3.6	25.7	198	106.5
CC44891		205	5.2	12.5	142	120.5
CC44892		157	1.7	15.9	118	82.9
CC44893		157	0.6	17.5	79	28.9
CC44894		171	2.0	47.0	85	68.6
CC44895		170	1.4	29.5	89	77.8
CC44896		75	1.9	37.0	138	109.0
CC44897		169	13.0	73.0	52	181.5
CC44898		231	1.4	29.0	147	69.1
CC44899		72	1.1	18.0	55	143.5
CC44900		162	3.2	31.2	178	129.0
CC44901		51	1.3	13.4	60	145.0
CC44902		37	0.8	8.2	65	122.0



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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
CC44903		0.15	0.002	0.08	6.73	5.0	940	3.09	1.11	0.59	0.24	113.0	12.3	47	5.73	46.8
CC44904		0.19	0.001	0.14	7.51	2.3	1080	3.73	1.12	0.46	0.17	146.5	11.6	32	7.05	97.4
CC44905		0.13	0.002	0.20	6.86	4.1	1110	2.85	0.60	0.36	0.39	105.0	7.1	36	11.45	16.9
CC44906		0.13	0.002	0.15	6.02	2.1	1000	1.87	0.48	0.54	0.28	82.3	5.3	25	5.76	12.6
CC44907		0.21	0.001	0.11	7.21	2.8	1040	3.42	0.38	0.63	0.14	128.0	16.5	65	14.90	23.6
CC44908		0.16	0.001	0.18	6.94	2.1	860	2.42	0.32	0.90	0.11	73.7	4.7	20	6.09	12.9
CC44909		0.19	0.001	0.09	7.31	5.7	1180	3.37	0.62	0.30	0.16	159.5	9.3	41	10.60	12.2
CC44910		0.16	0.005	0.07	6.83	2.6	1010	3.17	0.54	0.33	0.51	101.5	6.9	37	11.70	12.6
CC44911		0.23	0.001	0.06	6.13	5.7	1220	3.60	0.46	0.41	0.22	181.0	8.0	36	12.30	16.1
CC44912		0.27	0.002	0.19	6.14	7.8	3260	2.79	0.41	0.41	0.24	106.0	9.3	83	14.15	34.3
ZZ79575		0.14	0.016	0.13	8.14	2.7	1480	3.67	0.39	0.34	0.49	239	11.8	14	7.18	38.3
ZZ79576		0.21	0.001	0.26	7.53	2.1	1250	2.25	0.70	0.31	0.21	103.0	3.9	15	6.81	31.7
ZZ79577		0.17	0.001	0.11	6.57	2.2	1780	1.65	0.43	0.27	0.17	86.6	3.7	17	3.55	16.7
ZZ79578		0.31	0.004	0.06	7.26	2.8	1470	2.07	0.61	0.24	0.10	104.0	3.3	14	2.75	14.0
ZZ79579		0.21	0.001	0.07	6.71	4.4	1090	2.62	0.62	0.57	0.24	122.0	9.1	40	4.15	22.7
ZZ79580		0.26	0.001	0.15	6.99	5.1	1040	3.05	0.66	0.78	0.45	129.0	14.0	55	4.84	30.8
ZZ79581		0.28	0.001	0.16	7.50	2.5	1160	3.72	0.38	0.89	0.38	114.0	23.6	72	9.22	25.2
ZZ79582		0.18	0.002	0.14	6.25	3.1	770	3.50	0.35	1.08	0.26	95.9	9.1	48	6.39	14.9
ZZ79583		0.13	0.006	0.17	5.44	2.7	830	2.13	0.33	0.71	0.23	83.9	6.1	53	7.42	9.8
ZZ79584		0.26	0.002	0.18	7.67	2.2	530	6.46	0.21	1.53	0.13	137.5	19.8	29	21.9	9.2
ZZ79585		0.09	0.004	0.25	6.17	3.5	760	2.98	0.34	1.01	0.12	99.1	8.5	37	5.85	14.4
ZZ79586		0.18	0.003	0.43	7.00	10.1	880	4.03	0.40	0.96	0.22	133.5	12.1	55	9.41	31.6
ZZ79587		0.15	0.005	0.21	6.40	4.7	900	3.22	0.35	1.16	0.20	108.5	17.5	70	10.60	19.1
ZZ79588		0.33	0.005	0.13	7.31	5.1	960	4.21	0.33	1.49	0.21	127.5	24.0	63	9.51	26.6
ZZ79589		0.14	0.002	0.10	7.59	3.8	800	5.47	0.31	0.83	0.40	168.5	13.1	44	13.90	17.1
ZZ79590		0.44	0.001	0.10	6.82	6.4	850	3.31	0.32	1.43	0.18	110.0	15.6	68	8.09	16.8
ZZ79591		0.18	0.002	0.31	8.24	2.4	1110	4.51	0.75	1.46	0.30	106.0	30.9	132	19.25	33.2
ZZ79592		0.19	0.007	0.08	7.30	1.9	890	3.41	0.26	0.78	0.18	137.5	28.5	161	10.55	16.8
ZZ79593		0.38	0.001	0.08	7.44	4.0	890	3.22	0.56	0.89	0.27	101.5	13.2	54	8.90	30.5
ZZ79594		0.14	0.003	0.06	6.28	1.4	1190	1.73	0.60	0.33	0.08	101.5	1.8	12	3.06	10.4
ZZ79595		0.13	0.001	0.07	6.44	2.7	1280	1.73	0.36	0.40	0.19	82.2	3.6	25	5.03	13.4
ZZ79596		0.22	0.002	0.07	6.68	4.4	1100	2.72	0.37	0.65	0.26	109.5	7.9	45	6.43	17.4
ZZ79597		0.27	0.002	0.06	7.09	4.8	1150	3.60	0.43	1.09	0.26	128.5	12.7	56	7.96	15.9
ZZ79598		0.18	0.004	0.19	5.25	2.5	850	1.87	0.28	0.57	0.32	73.8	12.4	36	6.72	10.1
ZZ79599		0.34	0.001	0.04	7.19	4.1	1060	3.93	0.31	0.51	0.15	117.0	10.7	41	13.10	11.9
ZZ79600		0.16	0.002	0.07	6.88	3.2	1040	2.61	0.34	0.28	0.16	82.1	3.9	38	6.28	7.3
ZZ34089		0.27	0.001	0.09	8.46	2.8	950	3.97	0.47	0.33	0.11	95.2	14.1	105	16.35	27.6
ZZ34090		0.16	0.002	0.03	7.73	3.1	1180	3.13	0.45	0.20	0.09	97.8	3.2	37	17.65	9.8
ZZ34091		0.20	0.011	0.44	6.26	9.3	1930	2.18	0.42	0.56	0.32	84.0	7.8	71	10.15	34.1
ZZ34092		0.23	0.008	0.20	5.41	3.7	4590	1.66	0.21	0.35	0.27	80.7	11.4	110	10.30	79.1



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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																
CC44903		4.08	22.5	0.20	5.1	0.105	3.45	50.7	23.5	1.28	791	3.11	0.91	26.3	16.3	1260
CC44904		4.36	27.1	0.25	6.1	0.128	3.83	70.1	26.7	1.24	1040	4.09	0.70	28.0	13.3	690
CC44905		3.44	26.8	0.19	6.4	0.116	4.60	42.3	19.7	0.59	924	3.40	0.58	29.9	10.0	1730
CC44906		1.99	21.5	0.19	5.2	0.071	4.50	39.9	13.6	0.36	1080	2.24	0.71	24.5	7.4	2170
CC44907		4.84	24.1	0.23	3.6	0.118	4.49	57.8	33.5	1.18	801	1.90	0.52	31.0	21.6	1240
CC44908		2.00	22.8	0.20	5.4	0.062	3.82	38.1	21.2	0.46	325	2.25	1.25	20.8	7.2	1410
CC44909		3.37	25.0	0.26	5.2	0.153	4.57	66.5	25.7	0.39	845	3.90	0.42	31.7	13.0	1230
CC44910		2.46	24.8	0.22	6.5	0.087	4.44	38.7	25.1	0.49	891	3.86	0.60	30.8	14.2	1630
CC44911		3.15	21.5	0.20	6.2	0.110	3.66	58.2	34.4	0.59	807	2.80	0.51	29.6	14.8	890
CC44912		3.69	21.0	0.18	3.6	0.079	2.31	39.1	43.9	0.84	759	2.32	0.53	24.0	34.4	1120
ZZ79575		3.91	32.7	0.32	4.9	0.182	3.51	119.5	19.2	0.40	408	3.46	0.25	43.9	8.1	1940
ZZ79576		2.75	30.0	0.19	8.6	0.139	3.99	43.3	20.1	0.54	323	5.64	0.61	26.2	7.8	970
ZZ79577		1.79	22.5	0.21	6.6	0.078	5.29	41.2	8.8	0.41	942	3.33	0.82	25.8	5.6	990
ZZ79578		1.80	24.5	0.23	7.0	0.085	5.94	51.2	12.5	0.52	358	2.61	0.98	27.7	5.0	500
ZZ79579		3.22	21.2	0.25	4.8	0.086	3.68	59.8	25.8	1.03	541	2.09	1.00	22.6	16.1	620
ZZ79580		4.17	23.2	0.23	4.5	0.109	3.57	63.0	31.4	1.32	774	2.12	0.89	26.0	24.3	840
ZZ79581		6.08	23.9	0.23	3.0	0.126	4.16	49.9	120.5	2.37	798	0.95	0.65	30.5	54.0	1230
ZZ79582		3.50	21.8	0.23	4.3	0.103	3.41	46.7	35.7	0.94	718	1.38	0.76	31.2	17.5	1580
ZZ79583		2.89	22.0	0.19	3.8	0.080	3.08	41.3	24.3	0.66	579	1.54	0.70	34.3	12.3	1940
ZZ79584		7.78	33.4	0.29	1.3	0.158	5.91	72.7	120.5	1.37	1840	0.88	0.25	50.3	11.7	2520
ZZ79585		4.04	20.6	0.22	2.8	0.094	3.02	52.6	32.4	0.88	798	1.71	0.89	27.5	16.6	1660
ZZ79586		5.80	26.2	0.25	3.7	0.156	3.85	65.0	58.8	1.13	1220	3.52	0.68	37.8	25.2	1080
ZZ79587		5.02	23.9	0.23	2.6	0.137	3.40	52.0	50.3	0.98	1640	1.80	0.75	33.0	26.2	1940
ZZ79588		6.01	25.2	0.27	2.4	0.154	3.87	59.0	51.8	1.32	1700	1.59	0.82	39.1	35.3	1590
ZZ79589		5.37	28.0	0.27	4.4	0.137	3.82	72.6	68.4	1.60	639	1.46	0.57	44.3	19.2	1500
ZZ79590		4.46	22.5	0.22	3.2	0.090	2.67	53.1	44.0	1.30	685	1.24	1.01	26.4	27.7	880
ZZ79591		6.42	28.4	0.24	1.9	0.120	4.65	51.5	34.7	2.51	1360	0.95	0.74	32.9	39.3	1740
ZZ79592		7.13	25.8	0.24	3.4	0.110	3.86	64.5	40.5	3.08	1560	2.05	0.49	31.9	39.6	1470
ZZ79593		3.95	23.0	0.21	4.4	0.084	3.41	49.1	31.4	1.65	849	2.20	1.14	21.9	24.8	1050
ZZ79594		1.13	22.0	0.21	7.6	0.059	5.16	49.8	9.8	0.30	237	1.71	0.76	22.5	3.3	980
ZZ79595		2.08	22.7	0.16	7.3	0.076	5.29	38.0	12.7	0.42	467	1.89	0.48	26.0	8.6	1330
ZZ79596		3.09	21.2	0.22	4.6	0.094	4.30	51.6	22.8	0.78	585	1.54	0.57	22.8	19.0	1000
ZZ79597		4.25	22.1	0.28	4.0	0.111	4.05	62.6	33.5	1.14	881	1.92	0.60	28.3	22.0	1220
ZZ79598		2.64	18.40	0.14	3.4	0.064	3.15	33.8	12.5	0.47	4190	2.00	0.60	20.2	11.2	2330
ZZ79599		3.81	23.4	0.24	4.5	0.111	4.28	51.9	29.9	0.58	666	2.69	0.50	28.7	13.0	990
ZZ79600		2.00	23.6	0.16	6.3	0.080	4.77	33.4	15.8	0.34	536	2.31	0.43	28.4	9.0	1150
ZZ34089		4.34	28.5	0.22	6.4	0.105	4.45	35.6	35.8	1.08	478	3.31	0.45	26.1	28.9	340
ZZ34090		2.05	28.8	0.18	7.2	0.096	4.65	44.0	28.2	0.40	496	2.89	0.49	38.3	10.8	1430
ZZ34091		3.21	19.10	0.18	3.5	0.065	2.05	41.2	21.5	0.39	427	2.39	0.72	18.6	28.7	2470
ZZ34092		4.20	17.15	0.20	2.2	0.056	1.50	33.0	29.1	0.83	1040	1.94	0.30	13.8	51.7	1200



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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
CC44903		15.2	150.5	<0.002	0.07	0.66	11.8	2	5.9	63.5	1.92	<0.05	20.5	0.529	1.41	3.9
CC44904		19.4	158.5	<0.002	0.07	0.38	11.5	1	7.6	62.5	1.97	<0.05	24.3	0.442	0.99	5.2
CC44905		28.2	181.0	<0.002	0.05	0.63	10.3	1	7.2	66.2	2.12	<0.05	23.0	0.452	1.03	5.3
CC44906		17.0	148.5	<0.002	0.09	0.49	7.7	1	5.6	127.0	1.74	<0.05	20.6	0.339	0.88	4.1
CC44907		17.1	167.5	<0.002	0.03	0.49	17.7	2	5.5	90.7	2.17	<0.05	19.6	0.714	0.94	3.4
CC44908		12.3	117.0	<0.002	0.06	0.46	7.4	1	4.8	252	1.61	<0.05	17.4	0.320	0.50	3.8
CC44909		20.8	136.0	<0.002	0.04	0.59	11.9	2	6.7	91.5	2.48	<0.05	24.3	0.590	0.82	7.4
CC44910		19.6	187.5	<0.002	0.06	0.52	8.2	1	7.4	79.0	2.37	<0.05	22.7	0.367	0.72	4.6
CC44911		20.9	144.0	<0.002	0.05	0.57	9.8	1	6.3	88.4	2.27	<0.05	23.9	0.394	0.83	4.8
CC44912		27.9	121.5	<0.002	0.03	0.60	11.6	1	4.0	103.5	1.78	0.08	17.4	0.441	0.82	3.2
ZZ79575		24.9	99.9	<0.002	0.03	0.64	16.6	3	6.6	38.2	2.87	<0.05	21.2	0.945	1.24	4.1
ZZ79576		36.4	120.5	<0.002	0.06	0.58	10.4	1	9.0	47.2	1.83	<0.05	25.1	0.398	1.10	6.4
ZZ79577		29.9	153.5	<0.002	0.07	0.43	7.4	1	5.9	55.6	1.86	<0.05	21.5	0.299	1.27	4.9
ZZ79578		35.8	167.0	<0.002	0.03	0.38	7.4	1	6.8	45.9	1.91	<0.05	22.8	0.301	1.11	5.2
ZZ79579		24.3	132.0	<0.002	0.03	0.57	10.4	1	5.3	82.7	1.62	<0.05	20.6	0.427	0.83	4.4
ZZ79580		39.2	139.0	<0.002	0.03	0.60	13.6	1	5.4	88.2	1.86	<0.05	22.1	0.532	0.92	3.8
ZZ79581		24.1	155.0	<0.002	0.03	0.39	20.9	1	5.4	73.7	2.13	<0.05	16.4	0.836	0.96	2.9
ZZ79582		17.5	109.5	<0.002	0.07	0.48	11.8	2	5.3	92.0	2.25	<0.05	18.5	0.473	0.55	3.2
ZZ79583		17.3	112.0	<0.002	0.08	0.52	10.7	1	5.3	82.5	2.33	<0.05	14.8	0.515	0.61	2.7
ZZ79584		7.3	112.5	<0.002	0.01	0.29	28.9	4	5.5	58.0	3.44	<0.05	12.3	1.500	0.60	1.5
ZZ79585		13.7	95.8	<0.002	0.10	0.47	10.6	1	3.9	184.5	1.89	<0.05	13.8	0.429	0.66	2.4
ZZ79586		37.2	131.0	<0.002	0.10	0.77	14.7	2	6.1	103.5	2.47	0.05	22.7	0.543	1.47	3.6
ZZ79587		22.6	111.5	<0.002	0.13	0.50	17.0	2	4.9	102.0	2.12	<0.05	15.7	0.593	0.90	2.5
ZZ79588		17.5	117.0	<0.002	0.05	0.50	18.5	3	5.5	121.0	2.54	<0.05	16.2	0.737	1.06	2.3
ZZ79589		19.0	153.5	<0.002	0.04	0.32	15.3	2	6.8	69.5	2.83	<0.05	20.6	0.677	0.64	3.1
ZZ79590		15.5	101.5	<0.002	0.03	0.75	16.4	2	4.2	126.5	1.99	<0.05	16.8	0.680	0.57	2.5
ZZ79591		15.6	184.5	<0.002	0.01	0.38	29.3	2	6.9	141.0	2.17	<0.05	13.0	0.924	1.29	1.9
ZZ79592		8.7	175.5	<0.002	0.04	0.29	17.6	2	5.5	66.9	2.19	<0.05	17.3	0.754	1.21	2.9
ZZ79593		46.5	130.5	<0.002	0.06	0.50	12.3	1	5.0	165.5	1.63	<0.05	21.2	0.515	1.08	3.8
ZZ79594		25.2	141.0	<0.002	0.06	0.25	6.0	<1	6.6	52.5	1.59	<0.05	20.9	0.247	0.72	5.3
ZZ79595		30.0	173.5	<0.002	0.07	0.38	7.7	2	6.3	56.4	1.84	<0.05	21.6	0.370	0.93	5.4
ZZ79596		17.8	161.5	<0.002	0.04	0.54	11.3	3	5.0	84.2	1.61	<0.05	22.8	0.471	1.05	4.5
ZZ79597		13.2	145.5	<0.002	0.03	0.58	14.7	3	5.5	92.2	2.02	<0.05	19.3	0.672	0.89	4.2
ZZ79598		12.6	122.5	<0.002	0.12	0.38	9.5	2	4.1	98.0	1.45	<0.05	13.8	0.405	0.66	3.4
ZZ79599		10.9	138.0	<0.002	0.02	0.52	12.3	3	6.0	92.4	1.96	<0.05	20.3	0.671	0.69	4.8
ZZ79600		19.2	160.5	<0.002	0.06	0.41	9.1	2	6.5	66.4	2.07	<0.05	16.5	0.490	0.77	4.7
ZZ34089		12.4	157.0	<0.002	0.01	0.43	17.0	2	7.2	73.1	1.86	<0.05	18.5	0.579	0.78	5.2
ZZ34090		17.8	175.5	<0.002	0.07	0.57	9.0	2	10.0	76.2	2.96	0.05	21.1	0.371	0.87	5.6
ZZ34091		31.0	91.3	<0.002	0.07	0.88	11.7	2	3.6	165.5	1.49	0.06	15.3	0.416	0.77	3.9
ZZ34092		17.0	71.6	<0.002	0.05	0.42	13.6	3	2.0	94.5	1.05	0.08	10.3	0.487	0.53	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
CC44903		83	2.9	24.0	111	216
CC44904		62	3.4	31.6	97	248
CC44905		75	2.9	21.5	105	248
CC44906		50	2.9	19.3	66	191.5
CC44907		123	2.6	36.9	104	134.0
CC44908		48	2.7	19.1	48	197.0
CC44909		86	7.2	34.3	75	220
CC44910		57	3.3	18.8	85	249
CC44911		58	4.0	26.5	77	243
CC44912		109	3.2	17.0	108	152.0
ZZ79575		81	4.4	64.4	198	188.0
ZZ79576		64	2.3	24.1	83	330
ZZ79577		41	2.2	16.1	55	247
ZZ79578		37	2.4	16.0	57	260
ZZ79579		77	2.3	20.2	92	181.5
ZZ79580		99	2.7	26.4	162	165.5
ZZ79581		140	2.5	36.9	166	121.5
ZZ79582		81	1.9	29.4	73	165.0
ZZ79583		88	2.2	21.9	58	143.5
ZZ79584		174	3.1	87.3	169	34.8
ZZ79585		67	1.7	33.0	54	149.5
ZZ79586		98	3.0	34.2	105	167.5
ZZ79587		124	2.1	29.6	63	171.0
ZZ79588		124	2.2	46.7	79	88.1
ZZ79589		96	2.2	39.3	141	175.0
ZZ79590		135	1.9	34.5	79	118.0
ZZ79591		167	2.4	52.0	149	70.0
ZZ79592		115	2.2	47.2	121	138.0
ZZ79593		89	3.1	20.0	192	180.0
ZZ79594		31	2.2	15.6	30	275
ZZ79595		50	2.8	21.6	60	285
ZZ79596		76	2.7	29.1	88	158.0
ZZ79597		111	2.8	46.0	92	180.0
ZZ79598		69	1.8	18.7	54	123.0
ZZ79599		95	4.9	33.5	55	153.5
ZZ79600		69	4.6	19.9	51	224
ZZ34089		136	3.2	23.7	53	232
ZZ34090		62	3.9	18.4	51	244
ZZ34091		112	3.4	17.2	105	126.0
ZZ34092		131	2.3	18.6	121	77.9



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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
ZZ85466		0.12	0.002	0.09	6.17	5.5	1040	2.17	0.49	0.99	0.25	104.0	9.0	69	8.62	30.4
ZZ85100		0.08	0.010	0.11	7.32	1.0	350	0.62	0.15	4.98	0.51	25.3	34.2	209	3.22	131.0
ZZ87351		0.12	0.002	0.12	6.59	8.3	1290	1.86	0.83	0.49	0.24	102.0	4.0	43	9.25	23.5
ZZ71290		0.17	0.003	0.09	2.99	6.8	430	0.79	0.12	1.01	0.22	44.7	80.8	1710	1.48	15.9
ZZ71291		0.19	0.002	0.09	2.63	7.0	360	0.68	0.10	0.94	0.22	33.6	84.5	1520	1.41	20.5
ZZ71292		0.20	0.005	0.08	3.66	9.9	540	0.96	0.13	1.20	0.23	68.4	66.0	1160	1.81	18.5
ZZ71293		0.13	0.003	0.10	2.90	7.7	400	0.84	0.12	1.10	0.27	42.2	87.3	1510	1.53	24.2
ZZ71294		0.14	0.007	0.19	5.71	12.2	810	1.06	0.06	2.37	0.12	38.9	54.4	683	7.91	42.7
ZZ71295		0.25	0.004	0.10	4.77	7.4	590	1.04	0.09	1.46	0.12	44.8	55.8	761	6.03	28.9
ZZ71296		0.16	0.005	0.10	1.96	3.7	240	0.42	0.07	0.71	0.21	23.8	120.5	2100	1.04	13.9
ZZ71297		0.15	0.005	0.09	2.48	4.0	340	0.60	0.10	1.13	0.27	33.2	111.5	2090	1.45	13.5
ZZ71298		0.14	0.019	0.08	0.50	2.9	50	0.10	0.01	1.61	0.04	3.15	139.0	2050	0.28	10.3
ZZ71299		0.24	0.005	0.10	4.01	4.0	590	0.96	0.13	1.24	0.24	56.4	75.9	1320	1.89	15.1
ZZ71300		0.16	0.004	0.10	2.69	3.4	380	0.63	0.09	0.91	0.20	33.5	107.5	1560	1.29	17.5
ZZ71314		0.14	0.001	0.08	5.57	2.0	870	1.40	0.06	2.09	0.09	24.1	43.7	605	5.05	20.2
ZZ71315		0.30	0.163	0.13	6.35	2.2	1370	0.70	0.02	3.85	0.08	38.7	62.1	286	15.40	8.1
ZZ71316		0.17	0.002	0.09	3.25	3.4	480	0.95	0.10	1.00	0.16	45.9	61.6	1220	1.57	18.4
ZZ71317		0.28	0.006	0.10	3.28	4.4	450	0.71	0.08	1.13	0.15	36.1	92.1	1470	1.54	20.8
ZZ71318		0.16	0.002	0.10	2.68	3.8	380	0.67	0.09	1.10	0.16	31.4	105.0	1630	1.52	17.0
ZZ71319		0.17	0.007	0.09	3.18	4.5	440	0.79	0.11	1.04	0.17	40.2	109.0	1690	1.67	12.9
ZZ71320		0.14	0.010	0.09	1.95	6.1	260	0.53	0.08	0.82	0.27	25.2	116.0	1750	1.07	12.1
ZZ71321		0.13	0.005	0.09	3.04	6.3	440	0.80	0.11	1.04	0.19	36.7	89.6	1050	1.69	17.5
ZZ71322		0.30	0.002	0.10	2.89	4.3	420	0.82	0.12	0.79	0.25	35.2	105.5	1180	1.58	14.2
ZZ71323		0.20	0.002	0.11	2.01	3.3	250	0.47	0.07	0.78	0.18	22.2	130.0	1640	0.90	12.0
ZZ71324		0.14	0.007	0.09	1.52	3.1	200	0.58	0.06	0.77	0.19	15.65	147.5	2320	4.48	12.1
ZZ71325		0.12	0.021	0.14	1.43	3.4	180	0.42	0.05	0.99	0.10	10.65	153.0	1530	3.86	12.9
ZZ71326		0.26	0.005	0.10	1.85	3.7	240	0.42	0.09	0.42	0.18	19.65	137.0	1320	1.71	19.7
ZZ71327		0.26	0.003	0.10	1.65	4.2	200	0.39	0.08	0.56	0.16	17.80	122.0	1570	1.34	17.7
ZZ71328		0.17	0.010	0.09	1.47	18.4	190	0.35	0.08	0.44	0.20	16.40	121.5	2160	1.02	22.4
ZZ71329		0.22	0.003	0.11	2.40	7.2	330	0.60	0.11	0.62	0.24	27.5	91.6	1040	1.58	22.2
ZZ71330		0.19	0.003	0.11	2.64	5.0	380	0.74	0.12	0.73	0.18	42.5	77.2	1330	1.31	16.5
ZZ71401		0.10	0.004	0.11	4.46	1.9	550	0.92	0.14	1.31	0.12	30.9	49.3	678	1.84	19.2
ZZ71402		0.16	0.001	0.10	4.72	1.7	570	0.83	0.10	1.41	0.11	26.1	63.5	1060	1.12	18.1
ZZ71403		0.15	0.010	0.11	4.33	3.0	610	0.97	0.24	1.57	0.16	46.5	53.5	1440	2.46	12.9
ZZ71404		0.20	0.002	0.08	1.51	2.2	170	0.30	0.06	0.73	0.14	15.10	110.5	1930	0.66	15.2
ZZ71405		0.18	0.002	0.10	5.38	2.1	730	1.11	0.17	1.83	0.16	48.2	39.9	561	2.24	25.8
ZZ71406		0.21	0.002	0.10	4.54	4.8	550	1.03	0.15	1.69	0.22	42.9	74.0	1010	2.20	22.6
ZZ71407		0.12	0.001	0.13	6.33	0.7	920	1.16	0.20	2.04	0.11	44.7	24.5	354	2.39	15.8
ZZ71408		0.18	0.001	0.24	7.22	1.4	940	1.21	0.19	2.38	0.12	45.7	16.7	168	2.48	29.1
ZZ71409		0.16	0.001	0.15	7.47	1.9	900	1.25	0.22	3.72	0.28	47.2	33.4	323	4.66	73.8

***** 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 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
ZZ85466		3.95	20.6	0.25	4.4	0.101	2.92	51.0	49.5	1.12	636	2.64	0.78	25.2	25.4	480
ZZ85100		7.63	18.50	0.19	0.8	0.089	0.42	11.6	14.2	3.79	1380	0.74	1.84	11.2	72.8	950
ZZ87351		3.06	26.9	0.23	6.3	0.113	3.77	51.0	27.9	0.67	470	3.83	0.73	28.0	12.1	430
ZZ71290		6.22	7.28	0.28	1.3	0.029	0.69	23.6	10.5	12.10	971	0.72	0.67	8.1	1420	400
ZZ71291		5.88	6.51	0.26	1.2	0.025	0.64	17.1	9.8	12.90	1080	0.66	0.57	7.2	1450	510
ZZ71292		5.20	8.69	0.25	1.9	0.032	0.86	34.3	13.2	9.33	968	0.76	0.88	10.1	1040	410
ZZ71293		6.26	7.07	0.27	1.3	0.032	0.67	21.4	11.4	13.20	1160	0.72	0.59	8.4	1465	520
ZZ71294		6.27	13.40	0.22	0.8	0.056	0.87	20.3	17.8	7.94	908	0.44	1.50	13.1	742	790
ZZ71295		5.38	11.85	0.22	1.5	0.042	0.58	22.6	11.9	7.61	733	0.48	2.04	10.2	889	390
ZZ71296		6.93	4.74	0.31	0.8	0.019	0.36	11.6	6.4	14.50	1190	0.61	0.37	4.3	1835	450
ZZ71297		7.26	6.28	0.30	1.1	0.027	0.51	16.5	8.8	13.00	1300	0.64	0.51	6.7	1610	780
ZZ71298		6.73	1.27	0.40	0.1	0.007	0.06	1.5	1.6	20.7	1300	0.39	0.08	0.8	2140	70
ZZ71299		5.82	9.58	0.25	1.9	0.035	0.92	28.3	14.8	8.09	981	0.85	0.91	10.0	1050	520
ZZ71300		7.11	6.35	0.29	1.1	0.025	0.61	16.5	10.3	13.50	1140	0.68	0.58	6.1	1670	410
ZZ71314		4.63	13.95	0.20	1.4	0.034	0.57	12.3	18.1	7.23	750	0.54	2.09	8.3	842	490
ZZ71315		9.91	14.15	0.36	1.1	0.093	1.29	18.5	41.1	8.07	1920	0.52	0.40	17.5	620	880
ZZ71316		5.27	7.63	0.24	1.4	0.029	0.75	23.6	11.4	10.65	827	0.64	0.74	8.2	1150	590
ZZ71317		5.78	7.52	0.26	1.2	0.028	0.72	18.4	10.9	12.95	1020	0.67	0.81	6.5	1395	440
ZZ71318		6.32	6.45	0.26	1.0	0.024	0.59	15.7	9.9	11.65	1160	0.58	0.57	6.3	1360	440
ZZ71319		7.75	7.71	0.29	1.3	0.031	0.72	19.5	13.2	10.50	1100	0.70	0.66	7.8	1365	320
ZZ71320		7.39	4.79	0.30	0.8	0.020	0.42	12.2	7.6	15.20	1160	0.59	0.37	4.6	1865	460
ZZ71321		5.18	7.01	0.24	1.2	0.027	0.71	18.5	11.6	9.58	1070	0.66	0.67	7.0	1205	620
ZZ71322		7.05	7.06	0.31	1.2	0.028	0.66	17.7	12.6	13.10	1260	0.76	0.58	7.4	1610	560
ZZ71323		7.97	4.98	0.39	0.9	0.016	0.41	10.6	7.2	16.45	1360	0.59	0.44	3.9	1935	410
ZZ71324		8.22	3.91	0.34	0.5	0.019	0.30	7.5	9.6	15.30	1620	0.55	0.23	3.5	2090	440
ZZ71325		6.63	3.49	0.31	0.5	0.014	0.24	5.3	8.5	16.75	2090	0.44	0.22	2.5	2210	320
ZZ71326		7.31	4.90	0.15	0.8	0.023	0.40	9.9	8.1	16.00	1560	0.64	0.33	4.5	2130	590
ZZ71327		7.15	4.34	0.21	0.7	0.018	0.33	9.0	6.7	17.10	1320	0.58	0.30	3.7	2030	460
ZZ71328		7.46	4.01	0.19	0.6	0.018	0.32	8.6	6.8	18.20	1250	0.53	0.24	3.6	2040	410
ZZ71329		5.99	6.26	0.14	0.9	0.026	0.56	14.7	10.8	14.80	1070	0.69	0.46	6.3	1715	550
ZZ71330		5.77	6.71	0.15	1.2	0.027	0.66	21.8	11.3	12.65	910	0.68	0.59	8.0	1420	450
ZZ71401		4.20	11.85	0.11	2.0	0.029	1.16	16.5	15.8	7.88	651	0.96	1.34	7.0	940	700
ZZ71402		4.65	11.80	0.13	2.3	0.017	1.29	13.7	14.6	7.89	830	1.15	1.67	5.0	1010	470
ZZ71403		6.59	14.85	0.14	2.2	0.050	1.26	23.1	19.2	7.59	744	0.85	0.82	15.2	762	400
ZZ71404		6.85	3.80	0.17	0.6	0.013	0.31	7.7	5.2	17.30	1060	0.51	0.35	3.0	1970	430
ZZ71405		4.23	13.40	0.12	2.1	0.043	1.24	24.0	19.6	4.38	766	0.78	1.46	10.9	528	660
ZZ71406		6.01	11.30	0.16	1.4	0.044	0.93	20.7	17.1	8.43	1020	0.73	1.08	10.6	1005	520
ZZ71407		3.02	16.80	0.11	2.8	0.038	1.71	22.9	16.9	3.48	633	1.15	2.02	11.4	232	430
ZZ71408		3.17	18.50	0.14	2.7	0.040	1.77	23.5	23.0	1.95	559	1.32	2.28	11.3	108.5	380
ZZ71409		5.45	19.05	0.20	2.0	0.073	1.25	22.7	28.3	3.03	926	0.92	1.58	17.0	159.0	500



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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
ZZ85466		15.2	109.5	<0.002	0.03	0.61	12.2	3	6.2	107.5	1.79	<0.05	17.2	0.595	0.63	3.8
ZZ85100		5.5	18.6	<0.002	0.05	0.26	37.8	3	1.2	144.5	0.76	<0.05	2.6	0.897	0.10	0.7
ZZ87351		18.4	139.5	<0.002	0.04	0.50	9.3	2	7.7	78.5	1.93	<0.05	19.5	0.531	0.75	4.7
ZZ71290		7.6	36.0	<0.002	0.02	0.83	11.0	1	1.1	97.7	0.62	<0.05	7.5	0.229	0.22	1.8
ZZ71291		6.6	31.8	<0.002	0.04	0.94	11.5	1	0.9	90.0	0.58	<0.05	6.7	0.195	0.19	1.6
ZZ71292		8.6	42.5	<0.002	0.03	0.87	11.9	1	1.3	132.0	0.81	<0.05	11.1	0.309	0.27	2.4
ZZ71293		7.6	34.5	<0.002	0.03	0.72	12.4	1	1.1	85.1	0.67	<0.05	7.5	0.232	0.21	1.8
ZZ71294		7.1	66.3	<0.002	0.02	0.51	22.4	2	1.1	441	0.86	<0.05	5.4	0.538	0.46	1.1
ZZ71295		8.9	41.5	<0.002	0.01	0.49	16.4	1	1.3	191.5	0.74	<0.05	8.2	0.397	0.34	1.4
ZZ71296		4.8	20.9	<0.002	0.04	0.76	12.8	1	0.6	51.9	0.32	<0.05	3.8	0.138	0.13	0.9
ZZ71297		6.4	30.6	<0.002	0.05	1.04	13.6	1	0.9	72.8	0.54	<0.05	5.3	0.185	0.17	1.2
ZZ71298		1.2	2.9	<0.002	0.01	0.89	8.6	1	0.2	12.4	0.05	<0.05	0.5	0.025	0.02	0.2
ZZ71299		9.4	47.4	<0.002	0.05	0.97	12.5	1	1.4	138.0	0.78	<0.05	8.8	0.296	0.29	2.1
ZZ71300		6.7	31.7	<0.002	0.04	0.72	11.2	1	0.9	82.1	0.49	<0.05	5.2	0.181	0.20	1.5
ZZ71314		9.1	25.8	<0.002	0.03	0.40	15.5	1	0.8	407	0.54	<0.05	3.9	0.345	0.40	1.2
ZZ71315		3.7	78.5	<0.002	0.01	0.51	37.3	3	1.5	1860	1.18	<0.05	3.8	1.225	1.69	0.9
ZZ71316		7.4	38.3	<0.002	0.04	0.60	12.3	1	1.1	120.0	0.74	<0.05	7.5	0.246	0.23	1.8
ZZ71317		6.5	33.2	<0.002	0.02	0.69	11.2	1	0.9	132.5	0.50	<0.05	5.6	0.216	0.20	1.4
ZZ71318		6.5	31.4	<0.002	0.05	0.76	11.1	1	0.9	83.2	0.48	<0.05	5.0	0.182	0.20	1.3
ZZ71319		7.7	38.7	<0.002	0.03	0.92	11.6	1	1.1	94.4	0.60	<0.05	6.6	0.229	0.25	1.4
ZZ71320		5.2	23.4	<0.002	0.04	0.80	10.3	1	0.6	52.0	0.35	<0.05	4.1	0.130	0.15	1.2
ZZ71321		6.9	37.1	<0.002	0.08	0.77	10.4	1	1.1	95.3	0.55	<0.05	6.1	0.219	0.23	1.5
ZZ71322		7.4	36.9	<0.002	0.03	0.90	12.7	1	1.0	81.0	0.56	<0.05	5.9	0.201	0.22	1.4
ZZ71323		5.0	20.9	<0.002	0.03	0.56	11.2	1	0.6	80.1	0.29	<0.05	3.5	0.121	0.13	0.9
ZZ71324		3.6	20.2	<0.002	0.04	0.53	12.5	1	0.5	32.4	0.25	<0.05	2.7	0.087	0.11	0.5
ZZ71325		3.4	14.7	<0.002	0.02	0.62	10.8	1	0.4	43.2	0.21	<0.05	1.9	0.077	0.10	0.4
ZZ71326		5.2	23.9	<0.002	0.04	0.82	11.0	1	0.6	55.3	0.28	<0.05	2.9	0.109	0.14	0.8
ZZ71327		4.6	19.8	<0.002	0.03	0.71	12.5	1	0.6	50.3	0.22	<0.05	2.8	0.095	0.12	0.7
ZZ71328		4.4	19.3	<0.002	0.03	0.64	11.4	1	0.6	36.2	0.23	<0.05	2.5	0.090	0.13	0.7
ZZ71329		6.7	32.6	<0.002	0.04	0.79	13.0	1	0.9	67.1	0.40	<0.05	4.5	0.144	0.21	1.3
ZZ71330		7.6	33.5	<0.002	0.03	0.72	11.4	1	1.1	88.9	0.52	<0.05	6.8	0.199	0.21	1.6
ZZ71401		7.8	41.0	<0.002	0.04	0.72	10.7	1	1.0	274	0.43	<0.05	4.7	0.211	0.23	1.6
ZZ71402		7.2	34.3	<0.002	0.03	0.72	8.0	1	0.7	360	0.34	<0.05	4.1	0.173	0.22	1.6
ZZ71403		11.0	49.7	<0.002	0.01	0.76	16.2	2	2.5	92.4	0.88	0.05	6.9	0.363	0.30	1.8
ZZ71404		3.3	14.3	<0.002	0.03	0.68	10.6	1	0.4	63.4	0.20	<0.05	2.4	0.081	0.09	0.8
ZZ71405		10.4	47.9	<0.002	0.03	0.55	15.0	2	1.5	229	0.68	<0.05	6.9	0.341	0.28	2.0
ZZ71406		9.5	47.2	<0.002	0.03	0.92	18.1	2	1.4	141.0	0.67	<0.05	6.1	0.326	0.28	1.5
ZZ71407		12.4	62.1	<0.002	0.02	0.49	13.5	2	1.5	342	0.70	<0.05	7.1	0.350	0.33	2.1
ZZ71408		12.7	59.0	<0.002	0.01	0.50	14.3	2	1.4	404	0.70	<0.05	7.1	0.369	0.34	2.1
ZZ71409		10.9	60.2	<0.002	0.01	0.44	30.0	3	2.2	202	0.95	0.05	6.2	0.578	0.30	1.7



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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
ZZ85466		98	3.9	29.5	102	191.0
ZZ85100		286	0.6	27.5	165	20.5
ZZ87351		89	4.0	19.6	100	245
ZZ71290		75	1.3	11.1	70	41.5
ZZ71291		66	1.0	9.4	75	39.7
ZZ71292		80	1.6	13.6	69	58.8
ZZ71293		75	1.3	10.6	84	41.8
ZZ71294		150	0.9	19.7	79	24.3
ZZ71295		106	0.9	16.0	76	48.3
ZZ71296		65	2.3	5.8	60	23.5
ZZ71297		74	2.6	8.3	83	37.0
ZZ71298		46	2.3	1.2	50	3.7
ZZ71299		85	1.6	12.2	69	59.9
ZZ71300		68	1.4	8.1	70	33.5
ZZ71314		99	0.5	12.3	87	44.1
ZZ71315		278	1.4	38.1	147	19.8
ZZ71316		71	1.4	11.7	63	43.7
ZZ71317		71	1.0	9.7	68	39.5
ZZ71318		65	1.8	7.9	62	33.3
ZZ71319		80	1.7	8.1	62	40.1
ZZ71320		61	1.1	6.5	71	24.9
ZZ71321		63	1.1	9.1	67	36.2
ZZ71322		71	1.5	8.8	77	39.0
ZZ71323		64	1.2	5.0	60	27.7
ZZ71324		59	1.3	4.0	78	17.8
ZZ71325		48	1.8	3.4	58	16.2
ZZ71326		49	2.7	5.7	76	30.0
ZZ71327		54	1.9	5.1	66	25.4
ZZ71328		54	1.0	5.3	75	21.0
ZZ71329		56	0.9	8.8	72	32.8
ZZ71330		61	0.9	10.1	63	43.3
ZZ71401		56	1.3	8.3	59	75.6
ZZ71402		47	1.0	6.3	56	86.0
ZZ71403		121	1.9	12.6	76	86.9
ZZ71404		47	1.0	4.1	61	21.6
ZZ71405		88	1.2	14.0	69	76.2
ZZ71406		106	1.7	13.0	84	47.8
ZZ71407		86	1.3	11.5	57	105.0
ZZ71408		95	1.1	12.7	73	103.5
ZZ71409		165	1.4	21.9	101	73.7



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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
ZZ71410		0.14	0.002	0.12	6.30	1.1	1550	1.33	0.48	2.39	0.19	55.7	18.1	221	4.99	42.0
ZZ71411		0.20	0.002	0.30	6.30	0.7	890	1.28	0.52	3.44	0.20	44.0	21.9	164	7.88	101.0
ZZ71412		0.14	0.002	0.11	7.21	<0.2	550	0.77	0.13	4.13	0.25	26.7	24.7	227	4.55	92.2
ZZ71413		0.06	0.002	0.13	6.16	0.8	970	1.52	0.29	1.21	0.56	69.3	4.6	15	2.39	17.0
ZZ71414		0.11	0.001	0.16	6.51	1.0	900	1.53	0.31	1.40	0.54	64.7	6.0	19	3.29	18.7
ZZ71415		0.11	0.002	0.20	5.77	3.0	1140	1.70	0.69	0.62	0.58	94.9	5.6	46	6.17	18.0
ZZ71416		0.15	0.002	0.22	6.21	2.0	1120	2.00	0.88	0.37	0.48	97.3	3.2	24	5.49	11.9
ZZ71417		0.14	0.003	0.26	6.56	3.9	1070	2.82	0.94	0.59	0.34	110.5	12.5	52	10.85	52.7
ZZ71418		0.18	0.002	0.16	7.29	3.5	1090	3.06	0.42	0.36	0.41	130.0	7.7	31	8.60	14.4
ZZ71419		0.19	0.002	0.26	7.22	1.6	1040	2.89	0.36	0.29	0.23	103.0	5.8	16	7.25	8.7
ZZ71420		0.22	0.001	0.14	6.95	4.0	1020	3.44	0.35	0.37	0.26	135.5	8.2	32	9.80	11.6
ZZ71421		0.15	0.001	0.11	7.20	4.5	870	3.28	0.46	0.29	0.31	143.5	4.7	31	8.48	10.9
ZZ71422		0.20	0.001	0.35	9.11	1.9	930	5.92	0.81	0.25	1.14	186.0	8.7	28	11.80	31.4
ZZ71423		0.20	0.002	0.19	6.39	6.1	1110	2.21	0.40	0.51	0.22	108.5	6.0	38	6.61	17.0
ZZ71424		0.16	0.001	0.15	7.75	2.2	1000	3.46	0.56	0.73	0.71	146.0	14.8	38	7.75	50.8
ZZ71425		0.22	0.002	0.17	7.44	3.7	1030	2.52	0.92	0.48	0.36	124.0	5.5	26	3.55	43.4
ZZ71426		0.23	0.005	0.06	6.68	4.2	1000	2.64	0.65	0.67	0.28	128.5	10.2	45	3.88	42.4
ZZ71427		0.24	0.002	0.17	7.72	3.6	1170	4.06	0.67	0.41	0.22	143.0	16.0	47	9.95	37.6
ZZ71428		0.19	0.004	0.27	6.19	5.9	1010	2.29	0.55	0.71	0.59	108.5	10.2	49	5.58	23.9
ZZ71429		0.18	0.002	0.43	5.74	1.9	1120	1.62	0.47	0.43	0.65	90.4	5.7	31	3.98	13.6
ZZ71430		0.14	0.009	0.12	5.89	2.3	990	2.15	0.41	0.62	0.29	111.0	4.9	38	4.69	11.1
ZZ71431		0.20	0.003	0.13	6.40	4.6	830	2.89	0.28	0.93	0.31	107.0	8.1	63	5.67	12.3
ZZ71432		0.17	0.004	0.66	10.20	2.5	1670	4.90	1.01	0.32	0.67	274	19.7	67	17.80	77.3
ZZ71433		0.16	0.005	0.14	8.03	2.2	1070	3.88	0.49	0.59	0.18	168.5	18.5	72	25.1	35.1
ZZ71434		0.26	0.003	0.16	8.50	1.9	1010	6.20	0.43	0.94	0.25	138.5	38.4	146	34.0	37.8
ZZ71435		0.20	0.003	0.12	8.46	1.7	960	5.86	0.49	0.54	0.30	170.5	18.1	61	27.3	19.9
ZZ71436		0.16	0.002	0.20	9.29	4.3	1100	4.09	0.75	0.19	0.27	152.0	13.8	43	17.90	34.0
ZZ71437		0.37	0.002	0.45	9.04	5.6	1050	7.19	0.65	0.70	0.29	166.0	18.3	52	24.5	31.9
ZZ71438		0.20	0.001	0.20	6.10	3.5	1220	2.41	0.42	0.55	0.33	68.4	6.3	75	10.45	17.4
ZZ71439		0.22	0.009	0.40	7.63	40.5	2920	5.39	0.53	0.13	0.76	157.5	10.9	63	17.55	53.0
ZZ71440		0.33	0.004	0.36	9.71	8.6	3960	4.56	0.38	0.29	1.21	125.5	22.8	150	26.5	60.9
ZZ71458		0.19	0.003	0.19	7.05	22.3	500	1.85	0.18	0.93	0.08	69.7	39.2	431	7.64	33.4
ZZ71459		0.20	0.003	0.09	2.56	2.7	340	0.60	0.09	1.13	0.12	34.8	73.7	1780	1.45	16.1
ZZ71460		0.19	0.006	0.09	2.66	5.7	370	0.64	0.10	0.91	0.20	35.9	104.0	1660	1.57	15.5
ZZ71461		0.18	0.013	0.10	2.85	3.5	390	0.66	0.08	0.98	0.08	38.8	82.0	1390	1.21	20.9
ZZ71462		0.19	0.007	0.12	3.28	6.3	470	0.81	0.14	0.85	0.20	40.7	96.7	1040	2.26	21.5
ZZ71463		0.21	0.006	0.13	3.62	9.8	500	0.99	0.16	0.92	0.18	48.7	74.9	860	2.80	24.2
ZZ71464		0.13	0.003	0.09	3.10	5.9	440	0.76	0.14	1.01	0.23	41.4	75.1	1150	1.92	17.7
ZZ71465		0.27	0.003	0.11	3.01	4.2	430	0.72	0.12	0.82	0.19	41.7	102.0	1560	1.65	16.1
ZZ71466		0.19	0.002	0.14	2.62	3.2	460	0.67	0.12	1.10	0.44	35.3	104.0	1490	1.71	18.9



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	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
ZZ71410		3.93	19.95	0.16	2.9	0.067	1.80	27.0	20.1	2.03	757	1.27	1.21	20.1	82.7	480
ZZ71411		4.37	17.30	0.17	2.1	0.065	1.26	21.0	26.2	2.24	737	1.15	1.50	14.1	73.7	710
ZZ71412		4.70	18.90	0.13	1.1	0.066	0.72	13.8	18.8	2.68	723	1.01	1.87	11.4	78.4	350
ZZ71413		1.84	18.20	0.18	4.6	0.047	2.90	34.8	14.0	0.44	350	2.33	1.70	17.1	6.0	1470
ZZ71414		2.45	19.80	0.18	4.0	0.046	2.61	31.0	18.0	0.62	560	2.70	1.93	16.4	7.3	890
ZZ71415		2.99	21.6	0.23	5.1	0.081	3.48	45.0	13.3	0.59	577	2.68	0.77	28.8	12.1	2190
ZZ71416		1.75	21.5	0.20	6.0	0.071	4.86	45.7	12.9	0.35	360	2.51	0.63	27.7	5.8	1310
ZZ71417		4.08	21.9	0.26	4.5	0.118	3.97	43.8	25.4	1.02	877	4.16	0.53	27.6	19.9	1140
ZZ71418		2.81	24.6	0.26	6.1	0.106	5.19	49.8	28.2	0.58	676	3.43	0.56	33.2	12.2	1000
ZZ71419		2.27	23.5	0.21	6.3	0.098	6.42	40.4	18.8	0.49	835	2.14	0.56	35.0	6.5	990
ZZ71420		2.96	22.2	0.24	5.4	0.093	4.28	52.1	28.0	0.62	1080	2.83	0.66	30.7	14.0	750
ZZ71421		2.63	23.0	0.24	6.2	0.074	4.57	43.4	25.2	0.45	286	3.72	0.55	28.0	14.6	430
ZZ71422		3.96	30.1	0.35	8.2	0.104	5.06	83.7	40.9	1.31	1280	5.68	0.27	32.1	16.2	480
ZZ71423		3.06	21.7	0.26	5.9	0.082	3.94	46.7	19.2	0.70	544	3.45	0.63	26.8	12.3	810
ZZ71424		5.01	26.2	0.36	5.9	0.139	3.64	62.7	24.2	1.64	1380	4.23	0.71	31.2	16.2	1240
ZZ71425		3.18	24.4	0.31	6.6	0.106	3.61	58.9	17.2	0.91	640	3.81	1.56	21.9	10.7	740
ZZ71426		3.62	20.8	0.32	5.0	0.093	3.39	61.4	23.1	1.19	761	2.62	0.85	24.8	18.6	870
ZZ71427		4.73	27.6	0.36	5.7	0.139	4.22	67.8	36.5	1.31	931	3.91	0.70	28.2	21.0	670
ZZ71428		3.69	20.6	0.29	4.7	0.085	3.51	52.4	20.9	1.10	669	2.41	0.79	23.8	17.5	1180
ZZ71429		2.57	19.50	0.26	5.4	0.072	3.75	42.9	13.3	0.58	4780	2.19	0.80	26.1	9.8	1720
ZZ71430		2.77	22.6	0.29	5.4	0.079	3.82	53.1	15.0	0.66	732	1.89	0.81	30.4	11.5	1580
ZZ71431		3.95	21.7	0.29	3.9	0.085	2.92	50.8	39.6	0.92	570	1.78	0.87	33.2	20.4	820
ZZ71432		5.97	45.4	0.43	5.9	0.260	4.90	155.0	32.9	0.39	862	8.20	0.24	47.5	12.3	2090
ZZ71433		5.58	29.2	0.38	4.2	0.160	4.05	77.9	32.2	1.18	1360	3.79	0.41	31.0	23.6	1400
ZZ71434		8.53	28.6	0.52	2.5	0.140	5.17	104.0	52.8	2.26	1290	2.34	0.24	31.1	58.8	1480
ZZ71435		5.50	30.0	0.37	4.6	0.134	4.24	89.9	48.1	1.31	933	3.78	0.37	35.7	21.1	1260
ZZ71436		5.37	33.7	0.36	8.2	0.145	4.84	69.1	25.2	0.65	1060	7.28	0.24	37.3	15.1	1390
ZZ71437		5.42	39.2	0.46	6.9	0.188	4.78	97.9	62.8	1.52	1020	4.32	0.38	41.1	21.6	1030
ZZ71438		2.34	22.7	0.26	5.2	0.073	3.00	31.3	21.7	0.54	381	4.20	0.52	26.9	23.5	1960
ZZ71439		4.27	27.1	0.34	5.0	0.118	2.81	65.0	47.6	0.43	939	5.36	0.21	31.7	39.1	1080
ZZ71440		5.52	33.2	0.38	3.2	0.122	3.55	55.8	56.3	1.08	1460	3.43	0.27	34.7	66.2	870
ZZ71458		5.11	19.65	0.32	1.4	0.059	0.78	32.6	12.2	4.18	576	0.54	3.76	17.1	495	600
ZZ71459		6.23	6.13	0.36	1.2	0.023	0.54	18.1	8.2	14.10	799	0.56	0.68	6.6	1595	430
ZZ71460		6.38	6.24	0.34	1.1	0.025	0.62	17.6	9.3	12.30	1010	0.60	0.63	6.9	1395	430
ZZ71461		5.85	6.67	0.35	1.2	0.023	0.70	19.1	9.1	12.85	881	0.53	0.79	7.4	1545	220
ZZ71462		5.79	7.85	0.32	1.4	0.030	0.77	20.5	13.1	11.25	1300	0.78	0.72	8.6	1300	630
ZZ71463		5.61	8.99	0.33	1.4	0.033	0.87	25.2	15.3	10.75	994	0.78	0.76	9.4	1220	600
ZZ71464		5.42	7.32	0.28	1.3	0.027	0.73	20.1	11.8	8.81	1020	0.70	0.69	8.3	1090	900
ZZ71465		6.80	6.93	0.33	1.3	0.028	0.72	20.5	11.2	13.05	1160	0.72	0.69	7.7	1550	450
ZZ71466		5.68	6.67	0.27	1.1	0.026	0.63	16.0	10.4	8.48	1720	0.77	0.55	6.8	1145	1400



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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
	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
	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
ZZ71410	17.2	85.7	<0.002	0.01	0.43	21.2	3	3.5	166.5	1.18	0.05	7.6	0.604	0.46	2.3
ZZ71411	11.8	51.9	<0.002	0.04	0.40	23.8	3	2.3	214	0.82	<0.05	5.7	0.509	0.32	1.9
ZZ71412	6.9	29.7	<0.002	0.02	0.28	33.1	3	1.4	212	0.63	<0.05	2.8	0.625	0.19	0.9
ZZ71413	14.2	78.7	<0.002	0.04	0.50	7.0	2	3.7	325	1.07	0.05	11.9	0.342	0.45	3.4
ZZ71414	13.9	78.8	<0.002	0.03	0.50	7.1	2	3.0	385	0.95	<0.05	10.1	0.364	0.44	2.9
ZZ71415	19.3	142.0	<0.002	0.07	0.60	11.0	3	6.0	89.4	1.76	0.07	18.3	0.595	0.81	4.1
ZZ71416	19.2	149.0	<0.002	0.06	0.50	7.8	3	7.1	65.4	1.67	<0.05	19.5	0.421	0.87	4.7
ZZ71417	18.7	156.0	<0.002	0.06	0.70	14.5	3	6.0	78.3	1.60	0.05	18.9	0.575	1.19	4.3
ZZ71418	20.3	178.0	<0.002	0.06	0.54	10.4	3	7.7	67.8	1.95	0.06	28.2	0.420	1.03	5.5
ZZ71419	16.8	187.0	<0.002	0.06	0.36	9.1	3	7.8	55.0	2.12	0.05	23.5	0.387	0.80	5.0
ZZ71420	17.6	157.0	<0.002	0.05	0.64	10.9	3	7.2	92.0	1.84	0.05	21.7	0.428	0.87	5.1
ZZ71421	13.5	147.5	<0.002	0.03	0.61	8.6	3	7.6	79.9	1.77	0.06	23.7	0.339	0.80	6.2
ZZ71422	97.1	218	<0.002	0.02	0.62	10.0	2	12.3	35.1	1.97	<0.05	39.5	0.365	1.48	8.2
ZZ71423	32.6	177.0	<0.002	0.05	0.95	9.9	2	6.3	81.1	1.76	<0.05	19.5	0.462	1.43	4.3
ZZ71424	14.4	201	<0.002	0.06	0.44	17.7	3	7.4	52.5	1.90	<0.05	21.1	0.668	1.25	4.5
ZZ71425	14.4	146.0	<0.002	0.04	0.49	10.2	2	7.3	53.3	1.44	0.05	25.8	0.375	0.90	5.4
ZZ71426	15.9	145.0	<0.002	0.03	0.63	12.5	2	6.0	76.7	1.61	0.05	21.2	0.498	0.97	4.6
ZZ71427	17.0	160.0	<0.002	0.05	0.48	18.0	3	8.3	63.3	1.87	0.05	21.6	0.590	1.03	4.6
ZZ71428	16.5	152.5	<0.002	0.08	0.58	13.5	2	5.6	76.9	1.57	0.05	17.1	0.511	0.81	3.8
ZZ71429	18.6	128.5	<0.002	0.10	0.47	8.9	2	6.1	54.1	1.78	0.05	17.6	0.409	0.84	3.8
ZZ71430	18.0	140.5	<0.002	0.08	0.44	10.4	2	6.9	63.3	1.91	0.05	17.2	0.483	0.84	3.7
ZZ71431	14.9	118.0	<0.002	0.04	0.70	12.6	2	5.0	108.5	2.01	0.05	15.3	0.531	0.64	2.9
ZZ71432	46.4	198.5	0.002	0.30	0.73	35.7	5	12.5	99.1	2.65	0.05	36.9	1.285	1.61	7.8
ZZ71433	14.2	179.5	<0.002	0.08	0.50	21.8	3	7.8	87.5	1.84	<0.05	20.8	0.758	1.51	4.4
ZZ71434	16.5	287	0.002	0.01	0.45	36.5	5	6.0	69.0	1.82	0.05	14.9	1.305	1.58	3.2
ZZ71435	15.8	179.5	<0.002	0.04	0.46	22.7	3	8.4	69.0	2.18	0.05	26.0	0.802	0.87	4.9
ZZ71436	74.1	206	<0.002	0.09	0.68	15.4	3	11.4	78.3	2.24	0.06	32.0	0.769	1.57	6.9
ZZ71437	35.8	173.0	0.002	0.05	0.63	24.3	4	11.6	72.2	2.52	0.05	27.3	0.799	1.57	7.0
ZZ71438	16.9	115.5	<0.002	0.11	0.63	12.6	2	6.8	80.1	1.79	0.06	14.9	0.450	0.72	4.1
ZZ71439	130.5	143.0	<0.002	0.04	3.36	16.8	4	7.0	160.5	1.96	0.16	22.6	0.361	2.15	4.4
ZZ71440	70.3	157.0	<0.002	0.05	0.43	25.8	3	7.8	85.6	2.23	0.09	24.2	0.578	1.88	4.4
ZZ71458	19.3	57.6	<0.002	0.01	0.47	18.9	2	2.2	154.0	1.16	0.07	11.1	0.456	0.52	1.5
ZZ71459	6.0	26.2	<0.002	0.04	0.93	11.9	1	0.9	84.7	0.49	<0.05	5.4	0.189	0.17	1.3
ZZ71460	6.3	34.6	<0.002	0.05	0.90	11.4	1	0.9	83.8	0.48	<0.05	5.2	0.178	0.19	1.2
ZZ71461	5.8	34.3	<0.002	0.02	0.98	10.6	1	1.0	104.0	0.54	<0.05	5.5	0.211	0.19	1.3
ZZ71462	8.3	44.2	<0.002	0.05	1.17	12.1	1	1.2	96.2	0.62	<0.05	6.5	0.225	0.25	1.6
ZZ71463	9.3	51.0	<0.002	0.04	1.13	13.2	2	1.3	101.5	0.68	<0.05	8.2	0.252	0.29	1.8
ZZ71464	7.7	42.9	<0.002	0.10	0.86	11.7	1	1.1	93.7	0.59	<0.05	7.6	0.224	0.22	1.5
ZZ71465	7.8	37.9	<0.002	0.04	1.01	11.1	1	1.1	88.5	0.62	<0.05	6.6	0.214	0.22	1.5
ZZ71466	7.5	37.4	<0.002	0.13	0.75	10.0	1	0.9	90.3	0.48	<0.05	5.2	0.189	0.21	1.2



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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
ZZ71410		145	2.4	19.9	87	110.0
ZZ71411		148	1.4	22.6	79	80.5
ZZ71412		209	0.9	20.0	65	35.9
ZZ71413		47	1.8	18.0	49	179.5
ZZ71414		58	1.7	16.4	58	159.5
ZZ71415		92	3.3	21.8	75	210
ZZ71416		58	10.9	17.3	58	217
ZZ71417		99	3.5	25.0	134	166.5
ZZ71418		66	3.5	24.0	75	218
ZZ71419		54	2.9	21.5	54	230
ZZ71420		72	3.7	23.3	71	197.5
ZZ71421		64	3.4	21.4	61	217
ZZ71422		45	3.4	37.4	367	304
ZZ71423		77	3.2	22.2	102	218
ZZ71424		102	2.6	39.1	205	225
ZZ71425		56	2.7	19.7	143	252
ZZ71426		81	3.3	27.7	122	212
ZZ71427		109	5.4	29.4	116	228
ZZ71428		91	2.8	26.0	99	179.5
ZZ71429		60	2.2	16.1	68	199.0
ZZ71430		69	2.5	22.7	64	208
ZZ71431		97	2.2	27.5	79	148.0
ZZ71432		208	14.3	62.1	319	212
ZZ71433		126	4.6	43.1	93	151.0
ZZ71434		266	3.6	70.5	196	89.0
ZZ71435		143	3.7	50.2	122	174.5
ZZ71436		107	5.0	31.8	243	325
ZZ71437		139	5.1	67.9	155	253
ZZ71438		91	3.3	19.0	59	201
ZZ71439		135	7.9	30.1	235	203
ZZ71440		167	3.7	37.1	250	120.5
ZZ71458		125	0.5	18.3	99	48.1
ZZ71459		68	1.2	8.6	69	37.1
ZZ71460		64	1.4	8.0	63	38.0
ZZ71461		67	1.3	9.0	57	37.6
ZZ71462		69	1.8	10.3	68	47.6
ZZ71463		76	2.4	12.4	72	49.9
ZZ71464		66	1.3	9.9	74	45.6
ZZ71465		74	1.6	10.0	76	41.9
ZZ71466		65	0.9	7.7	83	34.9



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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
ZZ71467		0.32	0.002	0.09	3.22	4.3	470	0.87	0.11	0.68	0.18	40.6	75.3	888	1.49	22.0
ZZ71468		0.17	0.002	0.13	2.86	6.4	390	0.74	0.13	0.89	0.30	33.4	81.8	1020	2.21	26.8
ZZ71469		0.15	0.002	0.12	2.90	5.3	430	0.68	0.17	0.98	0.32	42.8	95.8	979	2.07	17.1
ZZ71470		0.14	0.001	0.12	2.58	3.9	380	0.55	0.10	1.21	0.88	28.4	97.4	1690	2.07	19.1
ZZ71471		0.21	0.003	0.12	5.14	15.0	400	0.77	0.08	2.53	0.20	28.9	62.8	672	5.41	51.3
ZZ71472		0.19	0.003	0.13	3.57	61.2	520	0.89	0.14	1.10	0.20	48.6	81.3	1130	2.85	16.4
ZZ71473		0.25	0.002	0.09	1.30	3.1	170	0.33	0.05	0.85	0.08	18.05	139.5	1750	0.60	14.8
ZZ71474		0.17	0.003	0.10	3.16	3.3	340	0.58	0.09	1.30	0.15	26.2	86.5	1660	1.41	20.6
ZZ71475		0.23	0.002	0.10	3.64	4.5	480	0.83	0.13	1.31	0.16	63.9	71.5	1360	1.68	19.8
ZZ71476		0.28	0.002	0.13	1.19	3.3	160	0.25	0.07	0.83	0.28	15.15	141.5	1930	0.86	17.6
ZZ71477		0.22	0.002	0.13	1.77	2.8	230	0.44	0.08	0.89	0.15	29.3	124.0	1830	0.93	16.1
ZZ71478		0.31	0.002	0.10	1.15	4.8	130	0.24	0.06	0.63	0.15	15.30	134.5	1780	0.78	16.4
ZZ71479		0.20	0.006	0.11	1.32	2.4	170	0.32	0.04	0.71	0.05	21.5	142.0	1840	0.62	11.1
ZZ71480		0.22	0.004	0.10	0.76	2.6	100	0.20	0.04	0.56	0.15	7.10	169.5	1560	0.60	12.2
ZZ71481		0.19	0.002	0.11	1.58	4.6	210	0.35	0.07	0.53	0.18	18.65	158.0	1440	1.21	13.3
ZZ71482		0.22	0.004	0.10	2.15	4.1	300	0.58	0.10	0.56	0.10	26.4	128.5	1470	1.31	15.7
ZZ71483		0.25	0.003	0.11	1.80	4.4	190	0.29	0.05	0.55	0.11	11.65	160.0	1780	1.06	14.5
ZZ71484		0.24	0.006	0.14	1.06	5.0	130	0.20	0.06	0.51	0.12	8.30	171.0	1470	1.17	23.3
ZZ71485		0.27	0.006	0.10	0.61	10.4	80	0.12	0.03	0.13	0.09	4.47	165.5	1680	0.61	7.4
ZZ71486		0.19	0.001	0.11	1.71	10.1	200	0.45	0.08	0.33	0.18	24.2	132.5	1740	0.99	10.2
ZZ71487		0.18	0.002	0.11	2.28	5.0	310	0.61	0.11	0.57	0.16	32.9	99.8	1470	1.19	12.0
ZZ71488		0.25	0.002	0.12	2.79	5.9	370	0.75	0.13	0.69	0.24	41.4	86.6	1170	1.62	17.4
ZZ71489		0.16	0.002	0.14	2.75	6.2	380	0.72	0.13	0.62	0.26	33.5	83.1	981	1.66	16.4
ZZ71490		0.12	0.002	0.12	2.52	6.4	330	0.65	0.13	0.57	0.28	36.0	116.0	1540	1.49	15.7
ZZ71491		0.26	0.002	0.14	2.85	8.6	370	0.75	0.14	0.61	0.25	36.2	90.6	1200	1.98	20.2
ZZ71492		0.13	0.001	0.11	4.03	6.0	560	0.81	0.17	0.70	0.26	29.5	94.6	896	2.89	14.0
ZZ71493		0.13	0.001	0.10	3.87	3.2	650	0.86	0.14	1.07	0.23	26.5	61.2	408	2.59	14.9
ZZ71494		0.13	0.002	0.14	4.69	3.3	600	0.94	0.15	1.16	0.18	34.9	59.7	790	1.85	15.6
ZZ71495		0.28	0.002	0.13	4.92	5.8	700	1.26	0.25	0.98	0.19	52.7	64.6	879	3.31	15.6
ZZ71496		0.13	0.002	0.08	1.23	9.2	140	0.33	0.07	0.40	0.13	9.83	127.0	1830	1.17	12.4
ZZ71497		0.14	0.003	0.09	1.34	2.6	170	0.23	0.07	0.64	0.19	11.75	141.5	2530	1.19	12.6
ZZ71498		0.18	0.004	0.11	1.65	2.4	200	0.33	0.05	0.70	0.12	19.20	135.0	1360	0.91	24.4
ZZ71499		0.18	0.002	0.12	2.25	2.9	280	0.46	0.09	0.91	0.12	20.0	129.5	1730	1.17	20.2
ZZ71500		0.16	0.001	0.13	3.74	3.5	560	0.94	0.17	1.04	0.28	38.1	109.5	1680	3.12	16.4
ZZ71331		0.17	0.002	0.11	2.11	7.0	290	0.55	0.10	0.52	0.24	34.2	114.5	1620	1.18	18.3
ZZ71332		0.10	0.001	0.11	4.61	4.7	610	0.94	0.14	1.21	0.18	35.3	46.5	640	1.63	18.4
ZZ71333		0.15	0.002	0.10	2.26	4.9	280	0.55	0.10	0.58	0.16	25.7	94.4	1530	0.98	13.7
ZZ71334		0.17	0.001	0.10	1.90	4.1	220	0.50	0.08	0.52	0.19	21.3	115.0	2410	0.96	10.5
ZZ71335		0.13	0.006	0.08	1.26	0.8	160	0.23	0.04	0.78	0.13	7.00	151.0	1150	0.60	17.2
ZZ71336		0.15	0.003	0.10	0.76	3.5	80	0.10	0.05	0.51	0.20	4.98	199.5	2490	0.62	6.4



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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 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
ZZ71467		5.80	7.98	0.33	1.4	0.025	0.82	20.2	13.4	11.90	840	0.77	0.80	8.5	1465	320
ZZ71468		5.90	7.16	0.33	1.2	0.028	0.67	17.4	12.3	12.80	1000	0.72	0.56	7.8	1475	770
ZZ71469		6.11	7.86	0.34	1.4	0.030	0.71	20.0	13.9	11.00	1260	0.82	0.56	9.1	1215	880
ZZ71470		5.66	6.58	0.30	0.9	0.025	0.54	13.3	8.5	9.04	959	0.55	0.52	6.4	1250	760
ZZ71471		6.35	13.00	0.30	0.8	0.046	0.58	13.2	19.3	7.66	902	0.37	1.50	9.1	811	430
ZZ71472		5.71	9.46	0.32	1.5	0.031	0.83	23.1	13.8	8.80	882	0.74	0.86	9.7	1120	360
ZZ71473		6.68	3.60	0.39	0.5	0.014	0.26	8.4	4.6	18.65	1250	0.43	0.30	3.6	2020	220
ZZ71474		6.42	7.90	0.34	1.1	0.025	0.57	12.9	9.1	13.65	881	0.59	0.82	5.6	1635	440
ZZ71475		5.98	8.91	0.25	1.7	0.034	0.84	32.6	12.1	10.60	830	0.70	0.89	10.9	1185	300
ZZ71476		8.17	2.98	0.36	0.4	0.015	0.21	6.8	3.8	17.35	1500	0.50	0.18	2.8	2140	750
ZZ71477		8.27	4.56	0.39	0.8	0.019	0.39	14.7	6.2	17.15	1300	0.56	0.39	5.1	2150	420
ZZ71478		7.27	3.00	0.42	0.4	0.015	0.22	7.4	4.5	20.3	1420	0.45	0.21	2.5	2150	290
ZZ71479		7.74	3.25	0.60	0.6	0.012	0.30	10.7	4.2	18.70	1460	0.46	0.35	3.4	2290	120
ZZ71480		7.76	2.06	0.44	0.2	0.011	0.13	3.5	3.4	20.4	1790	0.46	0.09	1.6	2510	410
ZZ71481		8.42	4.11	0.40	0.6	0.018	0.38	9.3	6.4	16.30	1660	0.57	0.28	3.9	2410	480
ZZ71482		6.65	5.56	0.41	0.9	0.023	0.49	12.5	8.5	16.00	1040	0.69	0.45	5.5	2360	190
ZZ71483		8.12	4.56	0.41	0.7	0.014	0.35	6.0	5.4	16.20	1610	0.57	0.45	2.4	2550	340
ZZ71484		7.17	2.77	0.41	0.4	0.014	0.20	4.2	3.8	17.60	1960	0.48	0.19	1.8	2470	430
ZZ71485		7.59	1.71	0.49	0.2	0.009	0.09	2.2	2.3	19.85	1580	0.37	0.08	1.1	2620	200
ZZ71486		8.00	4.62	0.40	0.7	0.021	0.38	11.8	5.9	17.15	1300	0.59	0.31	5.0	2220	220
ZZ71487		6.90	5.69	0.35	1.0	0.025	0.55	16.8	8.4	14.10	1130	0.60	0.50	6.1	1735	230
ZZ71488		6.19	7.14	0.32	1.2	0.027	0.64	21.5	10.9	12.35	1000	0.66	0.57	7.3	1475	620
ZZ71489		5.81	6.95	0.32	1.1	0.026	0.66	17.8	10.7	12.15	989	0.67	0.57	6.7	1540	720
ZZ71490		7.57	6.50	0.36	1.1	0.026	0.57	18.5	10.2	14.15	1190	0.70	0.53	6.1	1780	520
ZZ71491		6.49	7.23	0.33	1.2	0.029	0.66	19.4	12.4	13.90	1130	0.68	0.52	6.6	1620	680
ZZ71492		5.81	11.10	0.27	1.3	0.037	0.91	15.2	17.1	9.48	1160	0.79	0.74	7.8	1095	730
ZZ71493		3.05	9.87	0.16	1.6	0.025	1.04	13.7	13.8	3.89	838	0.82	1.03	6.0	530	800
ZZ71494		4.16	12.85	0.22	2.2	0.024	1.29	17.6	15.3	6.65	919	1.09	1.47	6.3	742	660
ZZ71495		6.04	14.25	0.30	1.9	0.053	1.37	26.0	26.1	7.06	817	1.06	0.91	14.5	793	340
ZZ71496		6.83	3.26	0.37	0.5	0.014	0.21	4.7	4.2	17.05	1310	0.44	0.21	2.2	2020	390
ZZ71497		8.46	4.32	0.39	0.4	0.015	0.22	5.5	3.8	16.05	2870	0.56	0.21	2.4	1990	560
ZZ71498		6.78	4.30	0.40	0.7	0.015	0.34	9.8	5.5	15.80	1320	0.52	0.37	3.2	2180	420
ZZ71499		7.56	5.92	0.37	0.9	0.019	0.52	10.0	6.8	13.95	1440	0.61	0.55	4.1	1870	540
ZZ71500		7.52	11.20	0.34	1.5	0.040	1.02	17.4	14.6	11.00	1680	0.76	0.62	10.9	1280	510
ZZ71331		7.26	5.43	0.38	0.9	0.022	0.48	16.8	7.9	15.40	1210	0.59	0.42	6.1	1880	420
ZZ71332		3.94	11.95	0.21	2.2	0.026	1.26	18.4	14.7	5.84	787	1.06	1.50	6.4	710	780
ZZ71333		6.96	5.70	0.36	0.9	0.020	0.50	13.5	7.4	15.60	952	0.62	0.54	4.5	1845	470
ZZ71334		8.31	4.94	0.40	0.8	0.019	0.40	10.7	6.1	16.00	1100	0.51	0.41	4.1	1920	480
ZZ71335		6.16	3.11	0.43	0.6	0.007	0.31	3.7	3.6	17.25	2150	0.49	0.37	1.3	2070	210
ZZ71336		9.98	1.94	0.72	0.1	0.013	0.08	1.9	1.7	18.25	1800	0.36	0.06	1.2	2230	410

***** 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	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti	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
ZZ71467		7.4	41.0	<0.002	0.02	0.69	11.1	1	1.1	106.0	0.59	<0.05	6.2	0.211	0.23	1.6
ZZ71468		8.1	39.4	<0.002	0.04	0.78	12.6	1	1.0	84.2	0.54	<0.05	5.1	0.187	0.22	1.3
ZZ71469		9.4	46.2	<0.002	0.06	0.83	13.3	1	1.2	79.1	0.63	<0.05	6.9	0.219	0.24	1.7
ZZ71470		6.1	41.9	<0.002	0.07	0.75	12.8	1	0.8	69.8	0.45	<0.05	4.1	0.189	0.15	1.2
ZZ71471		6.0	48.8	<0.002	0.02	0.62	26.6	2	1.0	127.0	0.56	0.05	3.6	0.460	0.31	0.8
ZZ71472		8.7	48.9	<0.002	0.02	1.11	13.1	1	1.3	125.0	0.72	<0.05	6.9	0.257	0.27	1.9
ZZ71473		3.2	14.5	<0.002	0.02	0.99	12.4	1	0.4	40.9	0.24	<0.05	2.7	0.093	0.09	0.6
ZZ71474		5.5	24.9	<0.002	0.03	1.25	13.9	1	0.7	163.0	0.38	<0.05	4.1	0.231	0.14	1.1
ZZ71475		9.3	38.3	<0.002	0.02	0.84	13.8	1	1.4	122.0	0.79	<0.05	9.8	0.293	0.25	2.3
ZZ71476		4.3	14.0	<0.002	0.06	0.64	11.7	1	0.4	28.2	0.19	<0.05	2.3	0.078	0.10	0.8
ZZ71477		5.1	19.1	<0.002	0.02	0.91	11.6	1	0.7	56.1	0.35	<0.05	4.7	0.134	0.12	1.1
ZZ71478		3.9	11.2	<0.002	0.02	0.61	11.2	1	0.4	33.9	0.17	<0.05	2.5	0.071	0.08	0.8
ZZ71479		2.9	12.8	<0.002	0.01	0.69	10.4	1	0.5	48.5	0.24	<0.05	3.2	0.093	0.08	0.8
ZZ71480		2.5	9.2	<0.002	0.04	0.85	12.6	1	0.3	15.9	0.10	<0.05	1.1	0.038	0.06	0.4
ZZ71481		4.3	21.5	<0.002	0.04	0.94	13.2	1	0.6	38.0	0.26	<0.05	3.1	0.091	0.14	0.9
ZZ71482		5.6	23.1	<0.002	0.01	0.83	11.3	1	0.8	61.6	0.38	<0.05	3.9	0.160	0.16	1.0
ZZ71483		3.7	13.6	<0.002	0.02	0.92	11.1	1	0.4	98.2	0.17	<0.05	1.8	0.085	0.09	0.6
ZZ71484		3.4	11.3	<0.002	0.04	0.53	11.1	1	0.3	35.4	0.12	<0.05	1.4	0.051	0.08	0.5
ZZ71485		1.9	5.4	<0.002	0.02	0.79	10.6	1	0.2	12.2	0.07	<0.05	0.7	0.029	0.04	0.4
ZZ71486		5.1	19.3	<0.002	0.01	0.69	12.7	1	0.7	38.3	0.34	<0.05	3.8	0.107	0.13	0.9
ZZ71487		6.2	26.8	<0.002	0.02	0.64	11.6	1	1.0	67.1	0.50	<0.05	5.2	0.154	0.18	1.4
ZZ71488		7.4	32.5	<0.002	0.04	0.65	13.3	1	1.0	89.1	0.54	<0.05	6.4	0.181	0.22	1.7
ZZ71489		7.4	33.6	<0.002	0.06	0.65	12.4	1	1.0	84.6	0.48	<0.05	5.6	0.170	0.22	1.6
ZZ71490		7.8	28.6	<0.002	0.04	0.83	13.1	1	0.9	83.7	0.45	<0.05	5.6	0.162	0.20	1.6
ZZ71491		7.9	35.3	<0.002	0.04	0.82	13.3	1	1.0	75.5	0.47	<0.05	6.1	0.178	0.24	1.6
ZZ71492		9.4	41.5	<0.002	0.03	0.71	14.6	1	1.4	113.5	0.53	<0.05	4.7	0.199	0.29	1.4
ZZ71493		8.0	39.6	<0.002	0.07	0.54	8.0	1	1.0	185.5	0.44	<0.05	3.8	0.154	0.24	1.4
ZZ71494		8.5	39.1	<0.002	0.04	0.59	8.1	1	1.0	305	0.45	<0.05	4.6	0.189	0.23	1.7
ZZ71495		12.7	64.2	<0.002	0.01	0.75	13.6	1	2.3	123.5	0.95	0.05	7.8	0.326	0.38	2.0
ZZ71496		3.2	11.2	<0.002	0.02	0.56	11.2	1	0.4	39.1	0.14	<0.05	1.4	0.067	0.08	0.7
ZZ71497		3.9	11.8	<0.002	0.03	0.88	11.9	1	0.4	38.9	0.17	0.05	1.4	0.071	0.09	0.7
ZZ71498		3.6	14.6	<0.002	0.03	0.94	11.7	1	0.5	63.8	0.21	<0.05	2.6	0.103	0.10	0.6
ZZ71499		4.6	20.8	<0.002	0.03	0.98	11.9	1	0.7	98.9	0.28	<0.05	2.7	0.115	0.13	0.8
ZZ71500		10.0	53.1	<0.002	0.02	0.91	13.9	1	1.8	75.2	0.73	0.05	5.4	0.262	0.27	1.4
ZZ71331		6.0	24.8	<0.002	0.03	0.60	12.1	1	0.9	58.9	0.48	<0.05	5.2	0.150	0.16	1.4
ZZ71332		8.1	38.3	<0.002	0.07	0.58	8.4	1	0.9	312	0.48	<0.05	5.1	0.197	0.24	1.7
ZZ71333		5.2	21.6	<0.002	0.03	0.55	12.2	1	0.6	93.7	0.32	<0.05	4.1	0.125	0.15	1.2
ZZ71334		4.3	18.8	<0.002	0.03	0.53	11.9	1	0.6	73.9	0.27	<0.05	3.3	0.110	0.12	0.9
ZZ71335		2.7	9.0	<0.002	0.02	0.42	6.5	1	0.2	73.5	0.08	<0.05	1.0	0.036	0.06	0.4
ZZ71336		2.2	7.2	<0.002	0.02	0.78	13.9	1	0.2	9.7	0.07	0.05	0.7	0.031	0.04	0.2



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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ71467		66	1.0	9.6	59	47.2
ZZ71468		63	1.0	9.5	88	45.3
ZZ71469		66	1.1	9.5	69	50.3
ZZ71470		71	1.6	7.2	74	28.4
ZZ71471		152	1.0	15.6	79	26.4
ZZ71472		79	1.7	11.5	60	53.7
ZZ71473		53	1.9	4.5	56	19.6
ZZ71474		80	2.1	8.2	75	39.7
ZZ71475		83	1.7	13.6	65	58.3
ZZ71476		52	1.0	4.0	70	15.6
ZZ71477		62	1.3	6.5	70	28.3
ZZ71478		49	1.0	3.7	67	14.5
ZZ71479		55	1.2	4.6	52	18.5
ZZ71480		43	1.3	2.1	58	8.7
ZZ71481		51	1.7	4.6	73	21.3
ZZ71482		57	1.5	6.4	58	34.4
ZZ71483		50	2.3	3.5	65	28.8
ZZ71484		38	1.8	2.6	64	13.9
ZZ71485		39	2.3	1.4	52	6.1
ZZ71486		57	1.9	5.8	66	26.3
ZZ71487		61	1.1	7.6	58	35.4
ZZ71488		61	0.9	9.6	76	43.3
ZZ71489		56	0.9	9.0	73	41.3
ZZ71490		64	1.0	8.4	82	37.6
ZZ71491		66	1.5	9.5	82	41.3
ZZ71492		75	1.4	7.8	73	47.2
ZZ71493		45	1.0	6.2	55	58.0
ZZ71494		50	1.9	7.6	67	82.4
ZZ71495		99	2.0	13.0	102	66.0
ZZ71496		47	1.2	2.9	60	17.8
ZZ71497		63	2.5	2.7	65	16.8
ZZ71498		46	1.4	5.0	59	27.9
ZZ71499		55	1.5	4.5	69	34.6
ZZ71500		94	1.9	8.7	96	56.5
ZZ71331		59	0.9	7.8	71	31.6
ZZ71332		49	0.8	7.7	65	82.9
ZZ71333		56	1.2	6.6	62	34.6
ZZ71334		61	1.5	5.3	76	27.2
ZZ71335		27	1.5	1.6	49	22.3
ZZ71336		54	1.7	1.2	93	5.7



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CERTIFICATE OF ANALYSIS WH13157938

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
ZZ71337		0.25	0.001	0.09	1.39	2.4	190	0.28	0.04	0.55	0.13	12.05	173.5	1660	0.75	23.8
ZZ71338		0.17	0.004	0.10	0.99	2.0	150	0.18	0.04	0.82	0.22	7.95	174.5	2030	0.55	63.8
ZZ71339		0.19	0.004	0.26	1.07	1.7	140	0.23	0.03	0.78	0.11	8.84	168.5	1560	0.49	47.1
ZZ71340		0.14	0.006	0.13	2.40	2.8	340	0.60	0.09	0.86	0.13	35.1	121.5	1700	1.03	20.4
ZZ71341		0.29	0.008	0.11	3.00	3.1	420	0.63	0.08	1.16	0.14	45.7	111.5	1680	1.35	20.8
ZZ71342		0.16	0.004	0.09	2.07	3.8	250	0.39	0.06	0.84	0.16	14.45	152.0	2640	0.92	15.9
ZZ71343		0.22	0.003	0.09	3.26	3.1	490	0.78	0.10	1.20	0.27	50.2	73.4	1380	1.57	17.9
ZZ71344		0.17	0.003	0.09	1.12	2.7	130	0.21	0.04	0.62	0.14	10.95	131.0	1970	0.63	15.1
ZZ71345		0.18	0.002	0.10	3.55	2.7	310	0.49	0.08	2.13	0.28	25.9	92.0	1600	1.63	14.8
ZZ71346		0.22	0.002	0.14	7.11	8.0	710	1.18	0.12	2.82	0.13	56.4	36.6	440	3.37	70.0
ZZ71347		0.15	0.001	0.15	6.90	4.0	700	1.12	0.12	3.33	0.16	53.5	31.2	377	2.29	54.5
ZZ71348		0.11	0.005	0.12	6.75	4.6	650	0.99	0.12	3.60	0.12	44.9	34.2	531	2.37	34.5
ZZ71349		0.26	0.001	0.12	7.38	3.3	780	1.05	0.13	3.76	0.15	42.9	31.9	370	4.51	47.0
ZZ71350		0.21	0.001	0.20	8.16	2.7	830	1.14	0.10	3.24	0.16	26.1	35.6	230	4.90	75.7
ZZ79991		0.34	0.002	0.23	7.85	5.4	3050	2.44	0.24	1.40	0.22	69.4	24.1	160	13.30	89.3
ZZ79992		0.29	0.001	0.09	3.26	3.8	470	1.03	0.13	1.39	0.14	23.0	93.0	1400	4.27	29.9
ZZ79993		0.18	0.001	0.08	2.23	2.8	320	0.94	0.09	0.82	0.13	14.50	87.6	1460	2.88	18.7
ZZ79994		0.28	0.001	0.09	2.97	3.1	380	0.94	0.12	1.38	0.13	15.70	93.3	1700	3.44	28.2
ZZ79995		0.24	<0.001	0.13	7.66	1.8	780	1.32	0.13	3.11	0.12	35.3	16.1	92	2.06	40.2
ZZ79996		0.16	0.001	0.07	7.71	2.4	730	1.74	0.16	3.73	0.18	45.9	30.1	188	4.36	95.5
ZZ79997		0.24	<0.001	0.08	6.50	2.6	550	0.83	0.18	4.07	0.14	38.5	25.1	281	4.08	29.1
ZZ79998		0.17	0.003	0.07	6.44	1.9	680	1.06	0.21	2.82	0.12	48.0	16.4	159	4.03	31.7
ZZ79999		0.22	<0.001	0.07	6.79	2.1	650	1.01	0.16	3.59	0.14	37.9	22.0	207	9.67	36.7
ZZ80000		0.14	<0.001	0.12	7.32	1.2	620	1.03	0.11	3.42	0.27	31.4	21.0	130	4.18	51.1
ZZ87336		0.13	0.003	0.18	6.48	3.4	1160	2.40	0.56	0.41	0.24	98.3	6.7	33	6.98	14.2
ZZ87337		0.13	0.002	0.16	6.75	4.1	1090	1.94	0.40	1.09	0.17	83.6	5.6	26	4.97	18.7
ZZ87338		0.09	0.003	0.13	6.16	3.0	1010	2.33	0.48	0.35	0.20	90.6	4.4	33	7.29	16.4
ZZ87339		0.20	0.001	0.22	7.17	6.4	1300	3.76	0.36	0.58	0.25	135.0	11.7	50	11.45	25.9
ZZ87340		0.10	NSS	0.13	7.29	2.4	980	3.45	0.35	0.24	0.21	94.4	4.6	17	6.77	7.9
ZZ87341		0.31	0.003	0.08	7.88	4.3	1270	6.34	0.31	0.71	0.24	152.0	16.9	59	18.00	18.2
ZZ87342		0.10	0.001	0.04	7.01	2.0	920	3.40	0.34	0.29	0.16	94.8	4.1	12	6.69	5.7
ZZ87343		0.23	0.005	0.04	7.01	6.0	1690	3.42	0.27	0.45	0.12	100.0	4.8	45	12.90	11.6
ZZ87344		0.32	0.002	0.68	9.21	6.0	7490	4.11	0.35	0.31	0.32	120.0	22.7	156	38.7	157.0
ZZ87345		0.14	0.002	0.19	6.18	3.2	5290	2.17	0.23	0.55	0.23	54.9	18.4	125	23.6	101.0
ZZ87346		0.18	0.004	0.19	7.21	3.4	1150	4.93	0.25	0.64	0.34	106.5	22.7	37	21.2	24.9
ZZ87347		0.11	0.006	0.33	5.68	3.3	1110	1.84	0.26	0.26	0.28	77.4	7.5	28	7.57	12.9
ZZ87348		0.17	0.002	0.22	7.00	4.8	1320	2.77	0.36	0.36	0.41	101.0	9.0	34	9.76	16.6
ZZ87349		0.24	0.007	0.27	7.10	6.0	5050	2.71	0.89	0.53	0.19	106.0	21.2	145	10.65	113.0
ZZ87350		0.26	0.587	0.24	7.98	7.2	7890	3.83	0.43	0.21	0.20	175.0	32.9	146	9.69	171.0
ZZ85446		0.12	0.002	0.10	7.16	5.6	1120	2.63	0.88	0.66	0.44	98.0	9.8	50	5.16	38.5



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 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13157938

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
ZZ71337		7.84	3.55	0.53	0.4	0.015	0.23	5.3	4.1	17.15	1640	0.48	0.25	2.5	2680	270
ZZ71338		8.60	2.61	0.49	0.2	0.016	0.14	3.6	2.9	19.15	1620	0.43	0.13	1.9	2510	310
ZZ71339		7.41	2.89	0.52	0.3	0.012	0.19	4.4	3.4	17.70	1540	0.41	0.20	2.3	2560	150
ZZ71340		7.99	6.00	0.41	1.0	0.025	0.54	17.8	8.5	13.80	1280	0.58	0.60	6.7	2020	310
ZZ71341		7.43	6.74	0.36	1.4	0.028	0.62	23.0	8.7	11.60	1200	0.61	0.76	7.6	1935	270
ZZ71342		8.54	5.24	0.41	0.8	0.015	0.42	7.3	5.4	16.00	1530	0.58	0.52	3.1	2220	560
ZZ71343		5.74	7.67	0.30	1.4	0.028	0.73	25.5	11.2	10.45	923	0.63	0.76	8.1	1310	590
ZZ71344		7.07	2.90	0.36	0.4	0.011	0.20	5.5	3.4	19.85	1220	0.44	0.21	2.3	2250	280
ZZ71345		7.18	9.27	0.30	0.9	0.035	0.52	12.1	9.2	11.10	1200	0.50	0.76	7.4	1200	580
ZZ71346		5.50	17.20	0.25	1.3	0.055	1.07	27.2	22.0	4.55	851	0.67	1.76	13.0	366	630
ZZ71347		5.41	18.75	0.25	1.5	0.059	0.98	26.4	16.4	3.68	826	0.66	1.77	13.6	231	570
ZZ71348		5.75	19.25	0.23	1.4	0.055	0.98	22.1	15.0	4.79	855	0.63	1.63	14.3	292	330
ZZ71349		6.25	20.1	0.24	1.4	0.066	0.92	20.8	18.2	3.55	941	0.63	1.91	14.3	158.0	230
ZZ71350		6.04	22.2	0.24	1.1	0.057	0.75	12.4	30.2	3.01	1070	1.03	1.64	9.7	100.5	370
ZZ79991		4.62	25.8	0.23	3.2	0.073	2.13	29.6	33.9	1.51	1540	2.39	1.17	16.7	70.9	1510
ZZ79992		6.10	9.28	0.33	0.8	0.025	0.43	11.5	11.9	12.30	860	0.57	0.75	5.8	1680	430
ZZ79993		4.92	7.11	0.29	0.6	0.016	0.28	7.8	8.8	11.75	676	0.43	0.49	3.6	1625	760
ZZ79994		5.96	8.85	0.32	0.6	0.024	0.33	8.2	10.0	13.25	793	0.50	0.73	4.7	1795	410
ZZ79995		3.79	18.50	0.15	2.6	0.050	1.64	17.8	22.7	1.73	654	1.27	2.49	8.5	38.5	800
ZZ79996		7.13	17.60	0.10	1.2	0.111	1.01	18.9	30.2	3.09	1140	1.16	1.30	13.0	71.2	950
ZZ79997		6.45	19.10	0.11	1.1	0.074	0.85	18.0	14.5	3.63	1050	0.92	1.58	14.3	103.0	1140
ZZ79998		4.24	19.40	0.14	2.1	0.047	1.23	22.8	16.8	2.08	696	1.07	1.66	14.0	52.6	930
ZZ79999		5.13	17.70	0.15	1.6	0.063	1.01	17.2	15.4	2.78	1000	1.39	1.77	12.2	67.8	1170
ZZ80000		4.36	17.20	0.12	2.1	0.042	1.21	15.4	16.9	1.93	901	1.49	2.09	8.4	44.6	1050
ZZ87336		2.36	23.3	0.17	5.8	0.085	4.76	42.9	19.2	0.45	1800	2.46	0.67	25.5	10.4	1840
ZZ87337		2.36	21.3	0.19	4.5	0.062	3.36	37.3	22.8	0.56	393	2.28	1.53	17.8	9.1	1280
ZZ87338		2.63	22.8	0.21	5.1	0.079	4.55	38.7	17.7	0.45	276	2.54	0.53	25.2	9.1	1720
ZZ87339		4.10	26.8	0.28	5.4	0.109	4.34	53.6	33.7	0.85	907	4.01	0.62	28.8	20.1	1020
ZZ87340		1.94	29.5	0.24	7.2	0.079	6.65	38.4	21.4	0.47	476	2.14	0.54	29.6	7.2	1340
ZZ87341		5.56	30.8	0.31	4.2	0.143	4.12	57.2	59.1	1.54	1280	2.24	0.56	29.5	23.8	1090
ZZ87342		1.26	28.4	0.24	7.2	0.062	6.74	44.9	19.5	0.43	667	2.05	0.51	28.3	6.2	870
ZZ87343		2.65	28.2	0.26	6.0	0.088	3.20	48.2	30.3	0.69	296	2.72	0.76	33.9	15.3	810
ZZ87344		7.39	33.0	0.34	2.6	0.114	3.23	56.4	43.2	1.36	1900	3.95	0.28	33.9	74.3	1580
ZZ87345		3.73	24.9	0.21	2.2	0.062	1.78	21.4	30.2	1.19	1840	2.60	0.39	12.5	58.7	2270
ZZ87346		6.82	29.3	0.39	2.7	0.124	3.92	57.4	47.2	1.16	1100	2.87	0.58	34.1	14.7	2010
ZZ87347		1.85	21.9	0.24	4.9	0.062	4.75	37.8	11.6	0.20	1000	4.55	0.44	24.0	8.7	1930
ZZ87348		2.64	27.1	0.25	6.1	0.092	5.11	43.8	17.2	0.43	1300	4.53	0.53	28.1	11.6	1330
ZZ87349		4.91	26.3	0.29	3.2	0.085	2.30	46.9	22.3	0.77	1620	3.70	0.47	21.1	77.1	1210
ZZ87350		5.82	31.3	0.34	2.8	0.097	2.53	71.8	22.8	0.50	2360	3.39	0.26	18.8	116.5	1110
ZZ85446		3.79	28.1	0.29	5.2	0.091	4.18	46.7	19.8	1.15	687	4.45	1.06	24.7	17.7	860



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	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
ZZ71337		2.6	11.3	<0.002	0.01	1.01	14.3	1	0.4	36.2	0.15	<0.05	1.7	0.076	0.08	0.5
ZZ71338		2.2	8.6	<0.002	0.02	1.08	13.6	1	0.3	19.2	0.12	<0.05	1.1	0.056	0.06	0.3
ZZ71339		2.2	9.3	<0.002	0.01	1.10	12.4	1	0.3	24.0	0.14	<0.05	1.4	0.066	0.06	0.3
ZZ71340		5.7	24.1	<0.002	0.02	1.24	12.3	1	0.9	81.8	0.49	<0.05	5.8	0.189	0.17	1.4
ZZ71341		6.3	30.7	<0.002	0.02	1.02	13.7	1	0.9	99.6	0.58	<0.05	7.0	0.242	0.19	1.7
ZZ71342		3.8	16.9	<0.002	0.03	1.15	12.9	1	0.4	98.6	0.22	<0.05	2.2	0.106	0.10	0.7
ZZ71343		7.5	37.4	<0.002	0.04	0.74	13.1	2	1.0	108.5	0.66	<0.05	7.5	0.250	0.22	1.8
ZZ71344		3.0	11.1	<0.002	0.02	0.59	10.7	1	0.3	33.0	0.17	<0.05	1.7	0.067	0.08	0.5
ZZ71345		5.9	35.0	<0.002	0.04	0.72	19.3	2	0.9	75.1	0.57	<0.05	3.5	0.322	0.14	0.9
ZZ71346		12.2	62.6	<0.002	0.02	0.54	24.8	2	1.5	192.5	0.92	0.05	8.0	0.532	0.35	1.6
ZZ71347		12.2	50.5	<0.002	0.02	0.51	28.9	3	1.5	203	0.98	<0.05	7.5	0.615	0.26	1.6
ZZ71348		10.6	50.4	<0.002	0.01	0.47	29.9	2	1.5	180.0	0.96	<0.05	6.2	0.617	0.25	1.4
ZZ71349		10.3	48.2	<0.002	0.01	0.51	33.0	3	1.6	178.0	1.01	<0.05	5.7	0.701	0.23	1.3
ZZ71350		9.3	22.0	<0.002	0.02	1.09	37.4	3	1.1	191.5	0.64	<0.05	3.1	0.638	0.17	1.1
ZZ79991		18.1	123.5	<0.002	0.05	0.36	26.5	3	2.7	217	1.16	0.08	10.7	0.602	0.62	3.0
ZZ79992		6.1	23.4	<0.002	0.02	0.42	20.4	2	0.7	126.5	0.37	<0.05	3.5	0.238	0.20	0.9
ZZ79993		5.2	14.2	<0.002	0.06	0.32	12.9	1	0.4	132.5	0.22	<0.05	2.3	0.119	0.19	0.7
ZZ79994		5.6	17.5	<0.002	0.03	0.38	17.2	1	0.5	151.5	0.28	<0.05	2.5	0.200	0.21	0.7
ZZ79995		8.6	41.2	<0.002	0.04	0.46	14.7	1	1.0	436	0.58	<0.05	4.9	0.468	0.26	1.9
ZZ79996		13.7	38.2	<0.002	0.05	0.29	27.7	2	2.0	108.5	0.84	<0.05	7.8	0.708	0.31	1.5
ZZ79997		8.8	42.9	<0.002	0.05	0.44	28.2	1	1.7	122.5	0.92	<0.05	4.8	0.794	0.22	1.2
ZZ79998		11.5	46.3	<0.002	0.03	0.55	18.7	1	1.8	223	0.90	<0.05	6.0	0.687	0.25	1.7
ZZ79999		9.4	40.2	<0.002	0.05	0.48	23.0	1	1.7	224	0.83	<0.05	4.5	0.705	0.24	1.3
ZZ80000		8.6	36.1	<0.002	0.06	0.39	17.9	1	0.9	351	0.59	<0.05	4.2	0.513	0.20	1.6
ZZ87336		20.5	159.0	<0.002	0.09	0.54	8.6	1	6.8	73.8	1.76	<0.05	19.9	0.411	1.08	4.8
ZZ87337		16.2	102.5	<0.002	0.05	0.58	7.4	1	4.1	286	1.23	<0.05	14.0	0.386	0.66	3.8
ZZ87338		17.5	139.0	<0.002	0.06	0.53	8.5	2	6.5	67.2	1.71	<0.05	17.6	0.478	0.83	4.5
ZZ87339		22.9	159.5	<0.002	0.04	0.59	19.0	3	6.1	94.1	1.96	<0.05	22.0	0.627	1.10	4.9
ZZ87340		12.8	187.5	<0.002	0.10	0.24	11.6	3	8.1	49.8	2.00	0.05	28.6	0.310	0.77	5.7
ZZ87341		12.4	174.0	<0.002	0.03	0.41	30.8	4	6.2	95.3	1.96	<0.05	20.2	0.953	1.02	3.9
ZZ87342		11.9	199.5	<0.002	0.07	0.25	9.2	2	8.2	62.2	2.01	<0.05	23.4	0.247	0.89	6.2
ZZ87343		21.5	137.0	<0.002	0.04	0.68	15.0	3	6.4	110.0	2.20	0.06	17.7	0.411	0.81	4.5
ZZ87344		32.9	167.5	<0.002	0.55	0.32	36.6	4	6.7	157.0	2.18	0.21	14.5	0.847	2.67	4.2
ZZ87345		22.2	148.0	<0.002	0.11	0.22	23.0	3	2.1	113.5	0.85	0.09	9.4	0.435	0.85	2.7
ZZ87346		18.0	219	<0.002	0.05	0.48	32.7	4	4.7	95.8	2.11	<0.05	12.8	1.305	1.67	2.9
ZZ87347		15.9	153.5	<0.002	0.16	0.58	11.9	3	5.3	67.1	1.53	<0.05	17.9	0.378	0.97	4.7
ZZ87348		21.0	191.5	<0.002	0.10	0.72	14.3	3	6.6	84.1	1.77	<0.05	25.4	0.415	1.17	5.5
ZZ87349		48.3	105.0	<0.002	0.10	0.39	27.3	4	3.1	141.5	1.44	0.14	14.5	0.621	0.85	4.4
ZZ87350		28.2	112.0	<0.002	0.04	0.27	35.4	4	3.4	150.5	1.27	0.11	20.5	0.610	0.96	4.3
ZZ85446		14.1	176.5	<0.002	0.13	0.46	16.6	2	6.9	83.5	1.59	0.05	20.9	0.518	0.82	4.6



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To: STRATEGIC METALS LTD.
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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
ZZ71337		52	1.6	3.5	56	14.8
ZZ71338		51	1.4	2.5	63	8.8
ZZ71339		46	1.4	3.4	53	10.2
ZZ71340		73	1.6	8.8	66	33.2
ZZ71341		83	2.0	11.0	65	46.2
ZZ71342		66	2.1	4.4	81	29.8
ZZ71343		77	1.5	11.6	69	50.1
ZZ71344		48	1.1	3.4	62	13.4
ZZ71345		114	1.6	10.2	93	27.7
ZZ71346		160	1.2	16.7	91	48.9
ZZ71347		180	1.2	19.7	83	49.4
ZZ71348		189	1.4	18.1	86	50.3
ZZ71349		208	1.4	21.3	98	46.5
ZZ71350		219	2.9	17.1	95	39.4
ZZ79991		169	2.3	21.1	135	128.5
ZZ79992		84	0.9	9.8	79	31.2
ZZ79993		49	0.6	5.6	60	20.4
ZZ79994		78	0.7	7.8	81	21.1
ZZ79995		115	0.6	13.1	67	100.5
ZZ79996		214	1.0	22.5	103	34.2
ZZ79997		238	0.9	19.9	94	37.2
ZZ79998		170	1.1	14.8	72	78.4
ZZ79999		203	0.9	17.2	83	56.8
ZZ80000		143	0.6	13.8	79	72.1
ZZ87336		63	2.8	19.1	56	211
ZZ87337		59	2.3	16.1	66	168.0
ZZ87338		72	3.0	18.6	54	212
ZZ87339		98	3.4	33.7	90	233
ZZ87340		41	2.7	21.6	40	279
ZZ87341		176	4.7	41.7	93	151.0
ZZ87342		31	2.5	20.3	25	283
ZZ87343		79	2.7	23.9	66	273
ZZ87344		233	3.4	29.7	178	107.5
ZZ87345		140	2.0	12.0	141	90.2
ZZ87346		213	2.6	48.8	165	108.0
ZZ87347		58	3.3	21.6	50	208
ZZ87348		63	3.3	24.2	76	274
ZZ87349		167	4.4	26.5	175	135.0
ZZ87350		187	6.5	24.6	228	117.5
ZZ85446		93	2.9	19.1	111	203



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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															
ZZ85447		0.15	0.002	0.12	6.39	3.4	1120	2.15	0.63	0.69	0.24	127.5	6.1	50	4.15	23.5
ZZ85448		0.10	NSS	0.29	5.21	1.5	1070	1.78	0.52	0.63	2.88	107.5	10.3	33	3.23	10.8
ZZ85449		0.14	0.001	0.12	6.70	2.2	950	1.81	0.33	1.40	0.40	85.1	9.4	34	3.66	17.7
ZZ85450		0.15	<0.001	0.13	6.89	0.6	750	2.76	0.21	1.22	0.27	79.9	7.2	15	5.49	13.7
ZZ85451		0.12	0.003	0.03	8.31	1.3	910	6.23	0.40	0.34	0.15	174.5	10.0	38	13.50	15.3
ZZ85452		0.10	0.005	0.13	7.87	4.4	1450	3.59	0.44	0.26	0.11	167.0	5.7	29	10.55	16.4
ZZ85453		0.20	0.028	0.08	8.13	3.6	1140	5.33	0.41	0.25	0.22	233	10.3	19	14.40	13.8
ZZ85454		0.12	0.007	0.50	8.16	6.3	2650	5.22	0.32	0.33	0.77	193.5	9.8	45	19.20	38.9
ZZ85455		0.13	0.010	0.39	8.30	7.3	3250	5.16	0.30	0.24	0.50	191.0	10.5	51	18.45	46.3
ZZ85456		0.22	0.003	0.35	7.87	8.3	2960	5.20	0.30	0.24	0.38	182.5	8.8	44	17.50	44.7
ZZ85457		0.23	0.009	0.08	7.29	2.2	3790	1.93	0.25	1.05	0.17	79.9	13.4	247	12.10	47.0
ZZ85458		0.36	0.005	0.12	8.80	5.1	2440	2.28	0.22	1.70	0.18	52.1	29.9	266	13.95	101.5
ZZ85467		0.21	0.001	0.19	7.46	1.7	790	1.23	0.16	2.79	0.20	42.8	19.8	147	4.27	64.3
ZZ85468		0.31	0.002	0.09	8.71	1.0	1160	1.45	0.14	2.88	0.19	56.1	43.6	219	9.38	111.0
ZZ85469		0.18	0.002	0.08	8.37	0.7	280	1.59	0.12	4.80	0.14	25.2	55.4	397	19.90	117.5
ZZ85470		0.22	0.001	0.09	7.78	1.5	690	1.18	0.16	4.12	0.17	26.2	43.7	305	6.99	90.1
ZZ85471		0.18	0.005	0.16	8.54	2.9	2490	2.42	0.30	2.60	0.18	46.2	43.6	260	17.05	123.5
ZZ71441		0.16	0.002	0.19	8.03	1.9	4040	2.45	0.22	0.76	0.61	71.0	15.9	119	21.7	63.3
ZZ71442		0.19	0.003	0.41	7.83	1.1	>10000	3.06	0.24	0.06	0.41	83.8	13.3	137	9.73	115.5
ZZ71443		0.14	0.003	0.31	6.85	4.9	6690	2.39	0.28	0.21	0.24	101.0	22.8	129	9.46	130.0
ZZ71444		0.10	0.002	0.06	7.76	0.5	410	0.57	0.04	5.37	0.29	23.3	50.3	292	2.18	110.5
ZZ71445		0.29	0.002	0.09	8.24	1.2	760	0.92	0.09	4.20	0.26	36.6	52.0	265	3.73	331
ZZ71446		0.14	0.005	0.15	4.46	3.3	900	1.35	0.13	1.85	0.26	34.8	72.9	1170	7.14	103.0
ZZ71447		0.15	0.002	0.04	2.44	3.1	340	0.82	0.08	1.19	0.18	13.60	81.4	1420	2.59	17.7
ZZ71448		0.19	0.001	0.04	3.55	3.1	410	0.87	0.09	1.70	0.17	22.8	83.1	1430	3.43	29.0
ZZ71449		0.14	0.003	0.03	3.15	3.1	400	0.97	0.09	1.41	0.19	20.3	89.3	1410	2.45	22.0
ZZ71450		0.19	0.006	0.06	6.86	1.7	590	0.92	0.13	3.83	0.23	44.4	30.5	182	3.64	148.0
ZZ71247		0.11	0.001	0.06	7.28	2.8	1100	2.17	0.24	2.64	0.20	71.5	26.8	140	7.84	99.5
ZZ71248		0.18	0.001	0.09	6.89	1.4	1030	1.24	0.21	1.90	0.06	47.4	7.7	63	2.99	20.0
ZZ71249		0.20	0.003	0.05	8.12	1.1	400	1.05	0.05	5.13	0.34	29.4	41.0	203	7.61	166.0
ZZ71250		0.17	0.003	0.13	7.02	2.0	990	1.49	0.15	2.92	0.20	50.3	25.3	159	5.98	53.5



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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
		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
ZZ85447		3.38	21.8	0.22	5.5	0.088	3.94	60.6	16.2	0.75	534	2.21	0.79	26.3	12.1	1350
ZZ85448		2.19	20.9	0.20	6.0	0.059	3.48	50.8	10.2	0.57	1810	1.84	0.78	24.3	7.5	1520
ZZ85449		3.47	20.7	0.19	4.3	0.062	3.08	39.8	18.0	0.95	762	1.63	1.56	20.5	11.2	1340
ZZ85450		2.42	20.7	0.18	5.0	0.054	2.71	39.6	24.5	0.67	1160	1.85	1.59	14.8	6.9	1340
ZZ85451		4.45	26.6	0.23	6.5	0.114	4.83	66.9	46.0	1.09	777	2.65	0.41	30.7	13.9	820
ZZ85452		3.63	28.4	0.21	8.2	0.117	5.13	59.8	21.9	0.46	411	3.90	0.43	34.5	11.5	790
ZZ85453		4.30	29.2	0.20	7.9	0.129	3.98	80.4	25.5	0.44	864	3.59	1.08	38.6	9.9	1090
ZZ85454		4.08	28.6	0.25	6.7	0.127	3.56	86.7	39.6	0.79	1690	4.62	0.37	35.5	24.0	990
ZZ85455		4.39	27.9	0.23	6.8	0.130	3.60	81.4	42.1	0.81	1240	4.63	0.33	35.5	28.0	820
ZZ85456		4.33	26.3	0.23	7.5	0.132	3.44	77.2	41.0	0.78	941	4.61	0.29	34.4	25.9	740
ZZ85457		3.68	22.9	0.15	3.4	0.068	2.39	37.9	21.5	1.35	979	1.57	0.79	22.2	61.8	770
ZZ85458		6.16	22.7	0.12	1.5	0.076	1.28	24.1	31.3	2.09	1210	1.35	1.05	18.0	100.0	1110
ZZ85467		4.60	18.10	0.10	1.9	0.054	1.28	22.5	19.1	2.13	952	1.02	1.85	10.2	58.6	1540
ZZ85468		7.02	19.65	0.11	0.9	0.073	1.20	26.9	25.7	3.12	1720	0.71	1.37	12.6	94.6	1110
ZZ85469		7.54	17.80	0.09	0.6	0.074	0.76	9.5	32.1	3.85	1160	0.28	1.55	9.9	209	760
ZZ85470		7.04	17.85	0.08	0.8	0.073	0.60	9.9	29.7	3.77	1140	0.47	1.39	9.1	132.5	1010
ZZ85471		6.57	20.2	0.10	1.0	0.077	1.51	20.2	35.8	2.47	1450	1.00	1.49	15.0	120.0	1080
ZZ71441		4.38	23.9	0.15	2.1	0.072	2.38	30.5	39.0	1.08	1500	2.22	0.61	18.9	46.4	1260
ZZ71442		3.85	24.5	0.13	2.4	0.069	2.19	26.4	16.2	0.18	1960	2.57	0.12	15.3	67.1	1220
ZZ71443		4.15	21.9	0.14	2.0	0.071	2.18	42.5	28.8	0.91	2020	3.01	0.12	13.1	76.3	810
ZZ71444		7.65	16.00	0.09	0.7	0.065	0.42	9.2	21.8	4.12	1480	0.51	1.96	7.6	135.0	930
ZZ71445		7.58	18.20	0.11	1.0	0.072	0.76	17.5	33.5	4.23	1220	0.76	1.73	9.5	142.5	830
ZZ71446		6.56	11.65	0.10	1.0	0.041	0.70	21.4	21.4	10.35	1040	0.94	0.84	7.6	1200	810
ZZ71447		5.25	6.29	0.07	0.5	0.020	0.31	6.8	8.9	13.15	752	0.28	0.62	3.4	1560	500
ZZ71448		6.13	8.65	0.08	0.7	0.028	0.42	10.1	11.7	11.75	934	0.30	0.90	5.3	1420	420
ZZ71449		5.89	7.60	0.07	0.6	0.024	0.36	8.8	10.2	13.00	980	0.31	0.78	4.3	1620	510
ZZ71450		6.55	18.00	0.09	1.4	0.076	0.85	21.7	16.2	3.34	1020	1.08	1.48	15.0	72.6	1030
ZZ71247		5.68	21.1	0.12	4.1	0.084	2.47	30.0	27.1	2.30	1180	1.67	1.19	19.6	61.6	1010
ZZ71248		2.35	19.25	0.11	3.8	0.030	2.22	24.7	17.5	0.90	466	1.53	2.11	11.2	19.0	770
ZZ71249		6.84	16.85	0.09	0.8	0.073	0.49	13.5	22.0	3.30	1140	0.76	1.82	10.0	82.9	800
ZZ71250		4.81	18.40	0.10	2.3	0.064	1.57	23.2	21.2	2.28	777	1.14	1.58	11.8	79.1	880

***** 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	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
ZZ85447		17.7	146.0	<0.002	0.05	0.63	11.3	1	5.3	88.7	1.75	<0.05	22.1	0.580	0.80	4.7
ZZ85448		15.4	139.0	<0.002	0.07	0.36	9.1	1	5.1	83.6	1.61	0.05	18.3	0.496	0.69	4.3
ZZ85449		13.8	111.0	<0.002	0.04	0.46	10.3	1	3.5	303	1.38	<0.05	10.9	0.522	0.52	3.3
ZZ85450		8.7	109.0	<0.002	0.07	0.33	7.9	<1	3.1	329	1.02	<0.05	15.5	0.340	0.49	3.7
ZZ85451		10.9	167.5	<0.002	0.03	0.31	13.4	1	6.9	74.2	2.00	<0.05	28.7	0.537	0.71	5.3
ZZ85452		17.4	179.0	<0.002	0.09	0.43	11.4	1	7.7	81.4	2.16	0.05	33.1	0.432	1.05	7.0
ZZ85453		14.3	157.5	<0.002	0.06	0.32	14.4	1	8.3	103.5	2.47	<0.05	37.7	0.740	0.96	8.3
ZZ85454		47.4	156.0	<0.002	0.10	0.47	13.8	2	7.0	107.5	2.30	0.07	27.3	0.390	1.58	5.8
ZZ85455		54.2	161.0	<0.002	0.08	0.49	14.7	3	6.4	112.0	2.15	0.08	27.1	0.406	1.57	5.5
ZZ85456		63.9	154.0	0.002	0.09	0.65	13.8	3	6.2	106.0	2.22	0.07	26.4	0.378	1.50	6.0
ZZ85457		15.0	96.8	<0.002	0.04	0.34	19.3	<1	3.3	97.6	1.53	0.05	10.1	0.670	0.74	3.0
ZZ85458		12.6	59.7	<0.002	0.05	0.25	33.0	1	2.0	128.0	1.14	0.07	6.2	0.857	0.42	1.9
ZZ85467		8.6	46.5	<0.002	0.06	0.32	22.5	1	1.1	295	0.76	<0.05	5.2	0.545	0.21	1.8
ZZ85468		11.9	59.9	<0.002	0.04	0.21	33.4	1	1.3	142.0	0.87	0.10	6.1	0.709	0.28	1.5
ZZ85469		2.2	36.6	<0.002	0.01	0.28	41.0	1	1.0	204	0.72	<0.05	1.3	0.998	0.11	0.4
ZZ85470		3.9	24.3	<0.002	0.04	0.23	39.8	1	1.0	121.5	0.62	0.05	1.9	0.841	0.14	0.7
ZZ85471		9.7	58.1	<0.002	0.05	0.19	34.4	1	1.4	166.0	0.97	0.05	4.0	0.954	0.41	1.3
ZZ71441		19.5	129.0	<0.002	0.06	0.21	17.6	1	2.1	153.5	1.18	0.10	10.3	0.499	0.72	2.6
ZZ71442		17.9	89.6	<0.002	0.03	0.17	16.8	1	2.2	254	1.02	0.09	11.8	0.480	0.61	3.8
ZZ71443		18.4	98.1	<0.002	0.03	0.11	21.7	2	2.1	108.0	0.90	0.12	11.0	0.462	0.60	3.2
ZZ71444		2.5	17.0	0.002	0.06	0.25	41.6	1	0.9	140.5	0.54	<0.05	1.3	0.885	0.10	0.6
ZZ71445		6.2	34.5	0.002	0.04	0.18	37.2	1	1.1	150.0	0.65	0.07	3.6	0.772	0.19	1.2
ZZ71446		9.1	35.3	<0.002	0.03	0.32	19.4	1	1.1	156.0	0.52	<0.05	4.6	0.390	0.24	2.4
ZZ71447		4.3	13.2	<0.002	0.05	0.32	11.0	<1	0.4	146.0	0.23	<0.05	1.9	0.144	0.14	0.6
ZZ71448		4.9	19.9	<0.002	0.02	0.34	16.1	<1	0.5	153.5	0.36	<0.05	2.5	0.266	0.16	0.7
ZZ71449		5.1	15.3	<0.002	0.04	0.34	13.3	<1	0.5	154.0	0.29	<0.05	2.5	0.207	0.16	0.7
ZZ71450		8.7	40.5	<0.002	0.03	0.28	35.0	1	1.6	111.0	0.95	0.05	5.1	0.771	0.19	1.5
ZZ71247		13.5	93.2	<0.002	0.03	0.32	25.8	1	3.1	155.0	1.24	0.05	9.5	0.711	0.52	2.8
ZZ71248		10.4	62.4	<0.002	0.02	0.44	9.2	1	1.7	405	0.85	<0.05	6.1	0.472	0.34	2.3
ZZ71249		4.3	19.4	<0.002	0.04	0.22	39.7	1	0.9	169.0	0.69	0.05	2.5	0.750	0.10	0.9
ZZ71250		9.3	54.9	<0.002	0.03	0.32	24.3	1	1.7	238	0.87	0.05	6.2	0.583	0.32	1.9



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 Finalized Date: 20-SEP-2013
 Account: MTT

Project: 4C East

CERTIFICATE OF ANALYSIS WH13157938

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
ZZ85447		99	2.7	25.2	73	201
ZZ85448		79	2.3	18.9	83	234
ZZ85449		87	1.6	21.8	84	169.5
ZZ85450		55	1.5	16.1	57	197.5
ZZ85451		84	2.6	32.1	63	222
ZZ85452		66	4.1	30.6	66	308
ZZ85453		93	5.0	40.6	101	342
ZZ85454		81	4.4	38.4	136	266
ZZ85455		102	4.5	37.4	144	256
ZZ85456		92	4.2	38.9	151	331
ZZ85457		171	2.5	16.1	98	119.0
ZZ85458		248	2.4	17.9	128	51.4
ZZ85467		157	0.6	16.6	87	73.6
ZZ85468		242	0.6	21.2	129	49.6
ZZ85469		245	0.5	25.1	93	12.2
ZZ85470		232	0.9	21.3	95	18.9
ZZ85471		253	1.7	20.9	123	33.7
ZZ71441		163	2.0	13.5	156	83.1
ZZ71442		163	3.1	19.4	178	92.0
ZZ71443		153	2.4	19.6	172	84.7
ZZ71444		239	0.5	26.3	110	16.2
ZZ71445		232	0.5	23.5	200	32.1
ZZ71446		126	1.3	20.3	130	38.4
ZZ71447		59	0.5	4.6	79	14.9
ZZ71448		97	0.5	8.4	86	20.5
ZZ71449		75	0.5	6.7	88	19.7
ZZ71450		232	0.7	25.1	160	46.2
ZZ71247		172	1.6	27.2	151	139.0
ZZ71248		86	1.1	10.1	52	126.5
ZZ71249		239	0.6	23.6	143	21.3
ZZ71250		154	1.0	20.4	91	118.0



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CERTIFICATE OF ANALYSIS WH13157938

CERTIFICATE COMMENTS	
	ANALYTICAL COMMENTS
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
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. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS61

APPENDIX V
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Property: 4C East

Sample Number: M898073 UTM: 440740 mE Nad83, Zone 9
Elevation: 1188 m UTM: 6766428 mN

Comments: 10 cm (true width) chip sample of limonite pitted with pyrite mineralization (2%) in a phyllite interbed within the Kudz Ze Kayah formation. Photo, no rep.

Sample Number: M898074 UTM: 440936 mE Nad83, Zone 9
Elevation: 1277 m UTM: 6766441 mN

Comments: Grab, sub rounded. Goethite and limonite altered, fresh green grey, aphanitic groundmass with porphyritic texture (or vesicle infilling of a basalt). Copper sulphides 1%, altering to malachite on weathered surfaces. Rep and photo.

Sample Number: M898075 UTM: 440936 mE Nad83, Zone 9
Elevation: 1279 m UTM: 6766441 mN

Comments: Grab, sub-rounded. Limonite stained, massive white-grey quartz vein with chalcedony infilling vugs-epithermal textures hosting pyrite stringers and fine grained disseminated galena? 3-5% mineralized. Rep and photo.

Sample Number: M898076 UTM: 441495 mE Nad83, Zone 9
Elevation: 1544 m UTM: 6766192 mN

Comments: Local grab. Limonite altered green siliceous chert? Rep and photo.

Sample Number: M898077 UTM: 440944 mE Nad83, Zone 9
Elevation: 1259 m UTM: 6767255 mN

Comments: Subcrop grab sample of the Fyre Lake meta mafic volcanics. Contains 2-5 cm angular clasts of mica-quartz schist with blebs of pyrite on rims. Rep and photo.

Sample Number: M898078 UTM: 440944 mE Nad83, Zone 9
Elevation: 1259 m UTM: 6767255 mN

Comments: Handpit at sample "1161482" labeled on lath. In vicinity of high copper soils. Dark green, foliated Fyre Lake Formation with 1% disseminated pyrite. Rep taken.

Rock Sample Descriptions

Property: 4C East

Sample Number: M898079 UTM: 440917 mE Nad83, Zone 9
Elevation: 1261 m UTM: 6767201 mN

Comments: Subcrop of Fyre Lake formation with limonite on fractures and <1% fine grained pyrite. Rep taken.

Sample Number: M898080 UTM: 440952 mE Nad83, Zone 9
Elevation: 1257 m UTM: 6767210 mN

Comments: 75 cm deep soil pit at CC11728 (high Cu). Sub-angular cobbles of grey mica-quartz schist, orange mica-quartz and green Fyre Lake meta-mafic volcanics hosting fine grained pyrite along foliation planes (1%). Rep and photo.

Sample Number: M898081 UTM: 441391 mE Nad83, Zone 9
Elevation: 1648 m UTM: 6765697 mN

Comments: 1.0 m chip sample of limonite stained KDZ formation. No visible mineralization. Rep and photo.

Sample Number: M898082 UTM: 441794 mE Nad83, Zone 9
Elevation: 1769 m UTM: 6765756 mN

Comments: Composite chip sample of local, weathered subcrop of phyllite with limonite and possible scorodite (25%). Rep.

Sample Number: M898083 UTM: 441759 mE Nad83, Zone 9
Elevation: 1779 m UTM: 6765852 mN

Comments: Float. Limonite/goethite latered KZK with rounded, quartz rich pebbles, cemented..ferricrete or faulted texture. Photo, not enough for rep.

Sample Number: M898084 UTM: 440915 mE Nad83, Zone 9
Elevation: 1417 m UTM: 6766001 mN

Comments: Soil pit grab. Green to tan quartzite with 2mm <1% silver coloured pyrite. Photo and small rep.

Sample Number: M898085 UTM: 440833 mE Nad83, Zone 9
Elevation: 1414 m UTM: 6766082 mN

Comments: Grab. Red brown weathered, fresh light grey->white massive quartzite with weak limonite foliations. Rep and photo.

Rock Sample Descriptions

Property: 4C East

Sample Number: M898086 UTM: 441200 mE Nad83, Zone 9
Elevation: 1528 m UTM: 6766072 mN

Comments: Locally source grab, limonite quartz schist hosting 3% fine grained pyrite. Rep and photo.

Sample Number: M898087 UTM: 441199 mE Nad83, Zone 9
Elevation: 1529 m UTM: 6766073 mN

Comments: 2.0 m outcrop chip sample of limonite altered KZK schist containing a 80cm massive, white, barren quartz vein. Rep.

Sample Number: M898088 UTM: 441200 mE Nad83, Zone 9
Elevation: 1539 m UTM: 6766064 mN

Comments: Local grab. Limonite altered KZK felic schist hostingn 5-10% limonite pits and 3% pyrite. Rep taken.

Sample Number: M898089 UTM: 441863 mE Nad83, Zone 9
Elevation: 1721 m UTM: 6766176 mN

Comments: 0.75 m chip sample across limonite stained mica DF schist, fresh colour is orange and blue gray with 2% 1 mm black oxide? Crystals among the micas. Rep.

Sample Number: M898090 UTM: 441869 mE Nad83, Zone 9
Elevation: 1726 m UTM: 6766196 mN

Comments: Local grab. Bright yellow/orange massive, non-siliceous, felsics, low specific gravity rock. Some sort of contact rock. No visible mineralization. Rep.

Sample Number: M898091 UTM: 441870 mE Nad83, Zone 9
Elevation: 1760 m UTM: 6765582 mN

Comments: 2.0 m chip sample of limonite altered KZK (rhyolite textures) schist with limonite pits present. Rep taken.
