

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

Telephone: 604-688-2568

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ASSESSMENT REPORT

describing

REVERSE CIRCULATION PERCUSSION DRILLING

at the

TOP PROPERTY

Top 1-20	YB53070-YB53089
21-24	YC04762-YC04765
25-50	YD33581-YD33606
51-94	YE67251-YE67294

NTS 116B/04

Latitude 64°11'N; Longitude 139°50'W

located in the

Dawson Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD

by

H. Smith, B.Sc., P.Geol.
and
R. Avram, B. Sc

April 2012

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INTRODUCTION

The Top property is a volcanogenic massive sulphide (VMS) prospect located in western Yukon Territory. It is owned 100% by Strategic Metals Ltd.

This report describes a reverse circulation drill program that was conducted by Archer, Cathro & Associates (1981) Limited on behalf of Strategic. The work was performed by a three person crew from September 3 to September 6, 2011. The authors participated in and interpreted all drill hole data for this project, and their Statements of Qualification appear in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Top property consists of 94 contiguous mineral claims located in western Yukon at latitude 64°11' north and longitude 139°50' west on NTS map sheet 116B/04 (Figure 1). The claims are registered with the Dawson Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Top 1-20	YB53070-YB53089	March 4, 2017
21-24	YC04762-YC04765	March 4, 2017
25-50	YD33581-YD33606	March 4, 2017
51-94	YE67251-YE67294	March 4, 2017

* Expiry date includes 2011 work which has been filed for assessment credit.

The Top property is located 20 km northwest of Dawson City. In 2011 it was accessed daily by truck via the Top of the World Highway. The crew was housed in Dawson City.

PREVIOUS WORK

There is no public record of any exploration work done in the Top area prior to 1995 when Nordac Resources Ltd. carried out a short prospecting and soil sampling program (Carne, 1996), and Cominco Ltd. performed helicopter-borne magnetic and electromagnetic surveys and contour soil and silt sampling on its Floc claims (Pride, 1996). Both programs were conducted to evaluate the potential for VMS mineralization.

In 1997, Nordac continued exploration with soil sampling, prospecting, geological mapping and excavator trenching (Heaton and Carne, 1997). Permafrost hampered the trenching program so proposed trenches were pre-stripped to allow frost retreat (Carne, 1999). Completion of the excavator trenches was planned in 1998, but this work was not done. Nordac was subsequently rolled back and renamed Strategic.

In 2007, helicopter-borne VTEM and magnetometer surveys were carried out by Geotech Ltd. of Aurora, Ontario on behalf of Strategic (Wengzynowski, 2007).

STRATEGIC METALS LTD.




FIGURE 1 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED PROPERTY LOCATION TOP PROPERTY

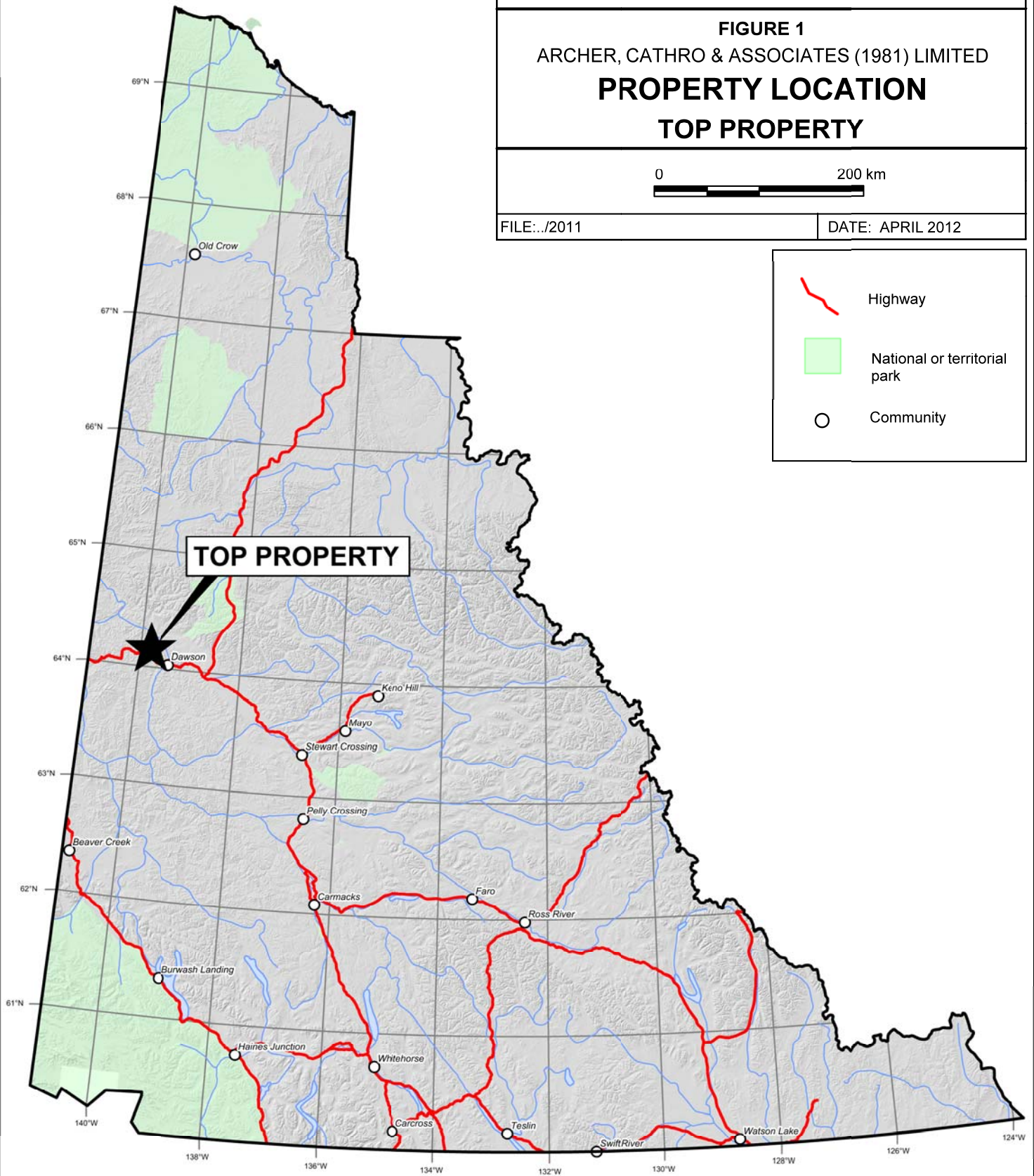
0 200 km

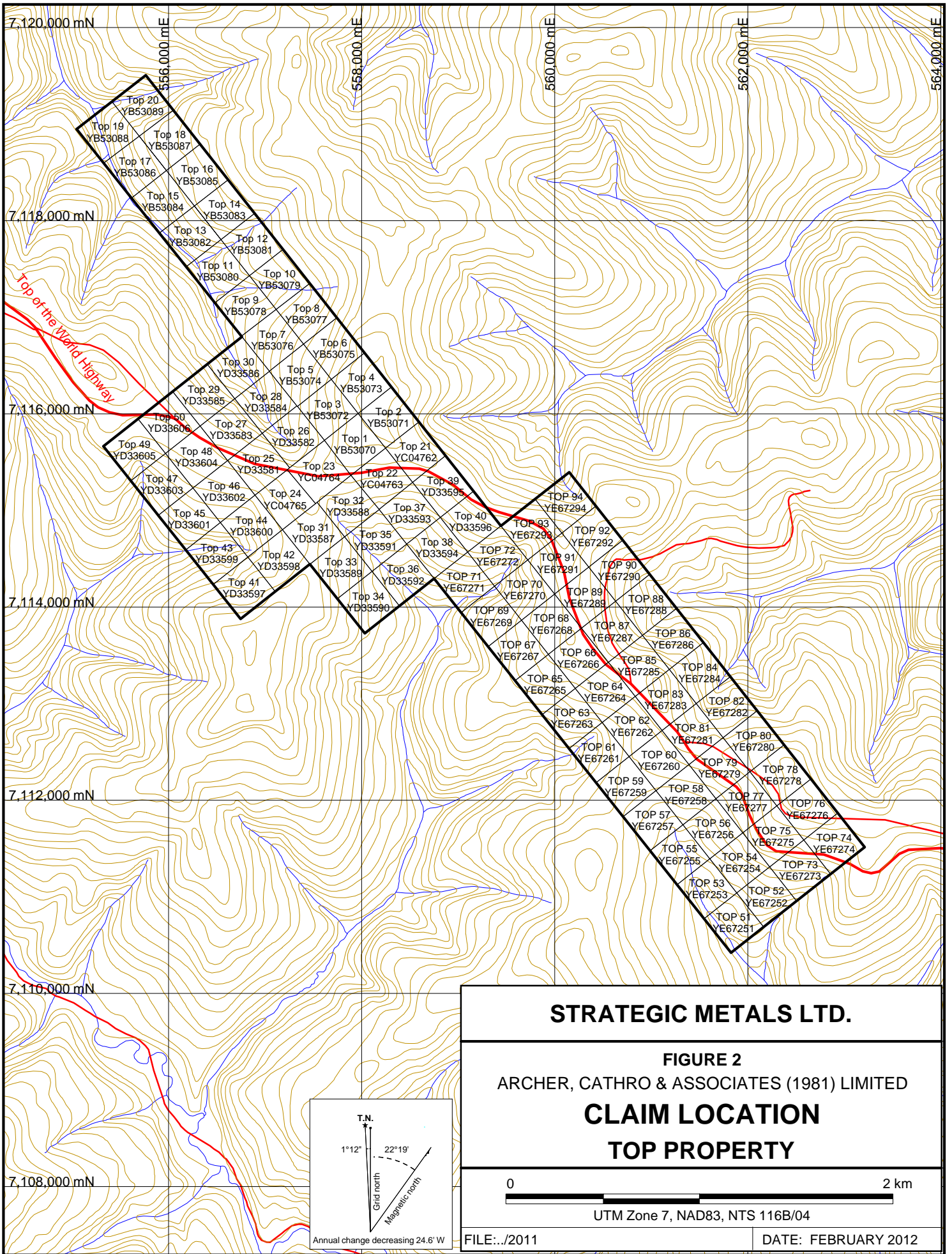


FILE:../2011

DATE: APRIL 2012

-  Highway
-  National or territorial park
-  Community





7,120,000 mN

7,118,000 mN

7,116,000 mN

7,114,000 mN

7,112,000 mN

7,110,000 mN

7,108,000 mN

556,000 mE

558,000 mE

560,000 mE

562,000 mE

564,000 mE

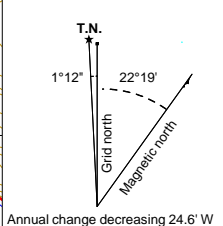
Top of the World Highway

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FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATION
TOP PROPERTY



UTM Zone 7, NAD83, NTS 116B/04



FILE:./2011

DATE: FEBRUARY 2012

In 2010, Archer, Cathro performed a short soil sampling program on behalf of Strategic.

The property was expanded from 24 to 94 claims at various times between March, 2010 and August, 2011.

GEOMORPHOLOGY

The Top property is located in the Klondike Plateau, an area where creeks have eroded deep dendritic drainages into a Pleistocene peneplain along a ridge crest that probably lies close to the original surface of the peneplain. The main areas of interest lay along a ridge, extending down the centre of the property. Because the area is unglaciated, oxidation and leaching of metals likely extends to depths of 20 m or more along the ridge crest. The remainder of the property lies on the flanks of the ridge. Elevations range from about 1225 m on the ridge crest to 640 m above sea level (asl) in a creek bottom near the northwest property boundary.

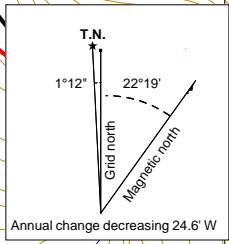
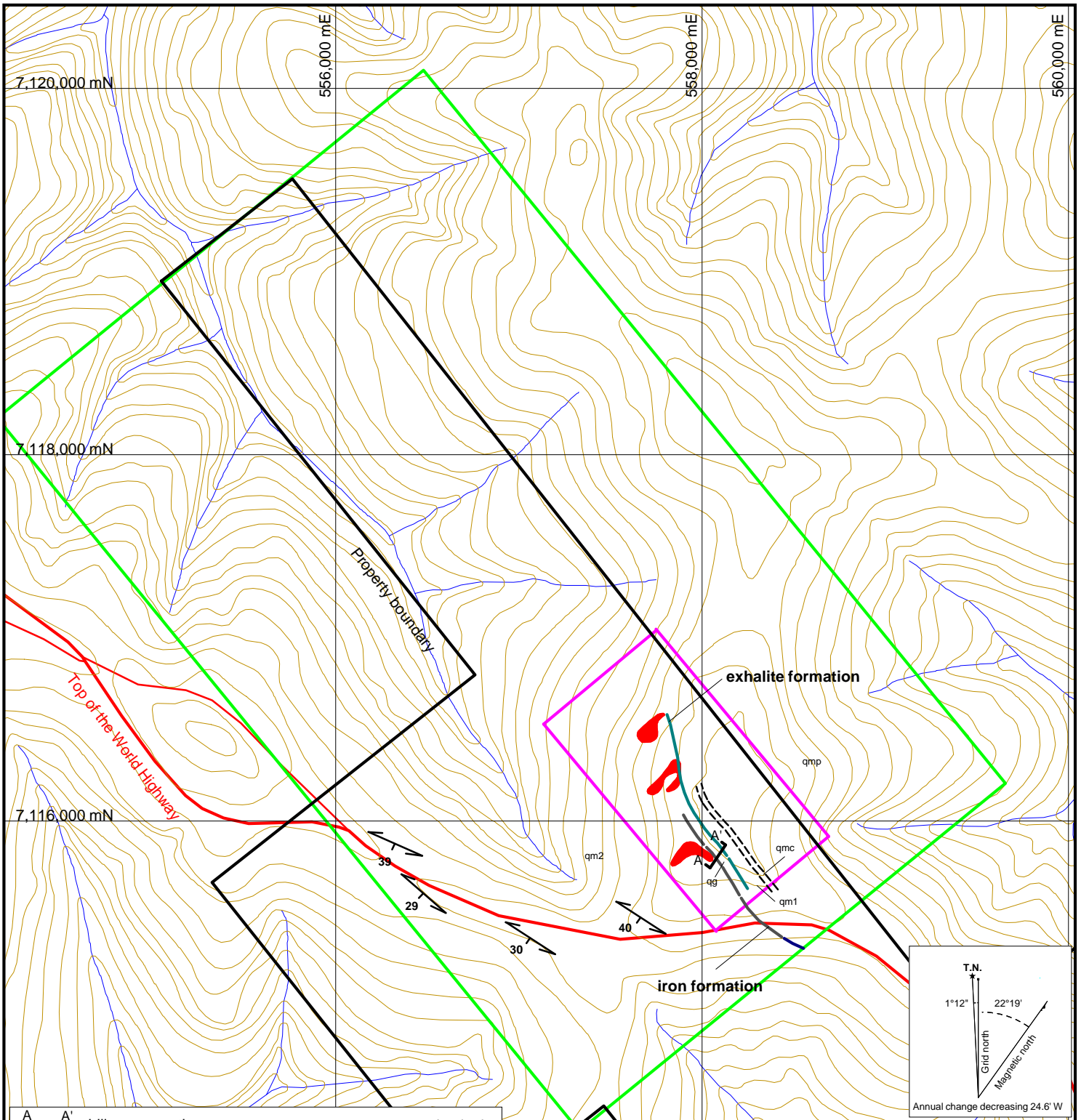
Upper parts of the property are covered with a thin layer of frost-heaved felsenmeer and residual soils, while lower elevations are blanketed by an unknown thickness of geliflucted regolith and loess. Treeline is about 1070 m asl in the area. The centre and south-eastern parts of the property, which are mostly above treeline, are only lightly vegetated with scrub brush and mosses, while the lower areas, mostly to the northwest, support a mixture of deciduous and evergreen forest. Permafrost is likely to be continuous over most of the property.

REGIONAL GEOLOGY

The Top property is located in the Klondike segment of Yukon-Tanana Terrane (Figure 3). Yukon-Tanana Terrane underlies a vast area that lies west of autochthonous North America in central Yukon and Alaska. The sequence is geologically complex, recording the tectonic incorporation of a Paleozoic volcanic and magmatic arc with its basement sequence onto the outboard edge of the northern Cordillera. It consists of a series of highly strained metavolcanic and metasedimentary rocks that have undergone polyphase deformation. Restoration of Late Cretaceous and Tertiary movement along the Tintina Fault juxtaposes the Klondike segment of Yukon-Tanana Terrane against the Finlayson Allochthon which contains the Kudzu, Ze Kayah, GP4F, Wolverine, Ice and Fyre Lake VMS deposits. These deposits are hosted by Late Devonian to Middle Mississippian metavolcanic and metasedimentary rocks.

PROPERTY GEOLOGY

The Top property is underlain by a sequence of metavolcanic and lesser metasedimentary rocks consisting of quartz-muscovite-chlorite schist, chlorite schist, quartz-feldspar-amphibole gneiss, metagabbro, micaceous quartzite, graphitic phyllite and marble (Figure 4). Compositional layering of bedrock on the property is subparallel to foliation, which undulates locally with a gentle southerly dip on a regional scale. These rocks are assigned to an unnamed Middle Paleozoic sequence of unknown affinity by Hunt (2002), and to the Permian Klondike Schist Assemblage by Gordey and Makepeace (2003) and Colpron (2006).



- | | | | |
|-----|--|--|------------------------------|
| | drill cross-section | | 2007 geophysical survey area |
| | multi-element geochemical anomaly | | 1997 geochemical survey |
| | attitude of foliation | | |
| qm2 | quartz-muscovite schist | | |
| qg | quartz-graphite phyllite | | |
| qm1 | quartz-muscovite schist | | |
| qmc | chloritic quartz-muscovite schist | | |
| qmp | chloritic quartz-muscovite schist with plagioclase phenocrysts | | |

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FIGURE 4
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COMPILATION MAP
TOP PROPERTY

0 2 km

UTM Zone 7, NAD83, NTS 116B/04

FILE:../2011	DATE: APRIL 2012
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STRATEGIC METALS LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

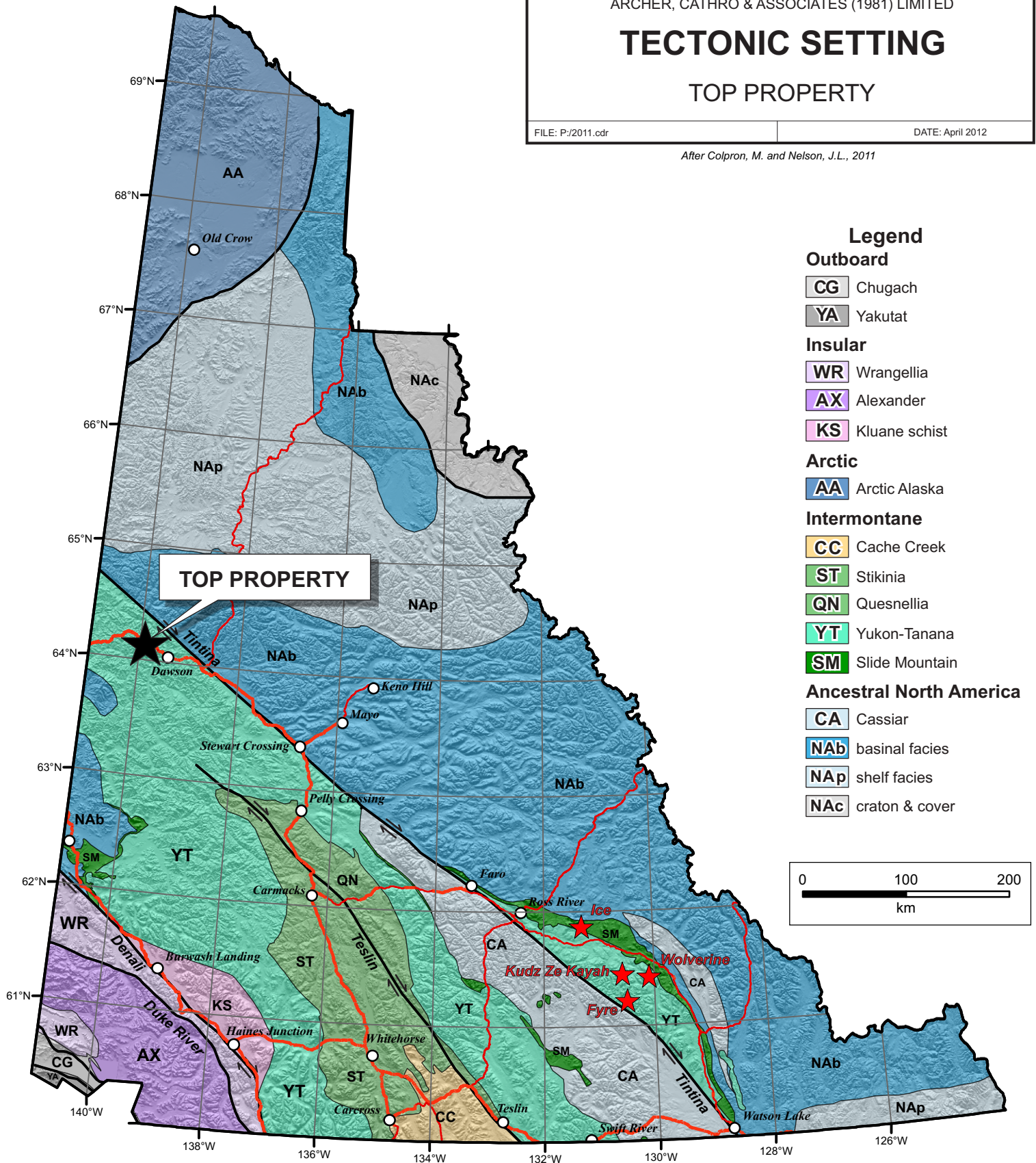
TECTONIC SETTING

TOP PROPERTY

FILE: P:/2011.cdr

DATE: April 2012

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



Legend

Outboard

- CG Chugach
- YA Yakutat

Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

Arctic

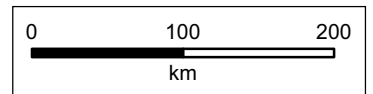
- AA Arctic Alaska

Intermontane

- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YN Yukon-Tanana
- SM Slide Mountain

Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAp shelf facies
- NAc craton & cover



The metavolcanic sequence is in thrust fault contact outside the property boundaries with Middle Paleozoic Nasina Assemblage metasedimentary rocks consisting of quartzite, quartz-muscovite-biotite schist and marble. Thrust faults in the area are often marked by slivers of carbonatized and serpentinized ultramafic rocks.

Table I - Lithological units at the Top property
(from Carne, 1999)

Unit	Description
qm2	Quartz-muscovite schist
qg	Quartz-graphite phyllite
qm1	Quartz-muscovite schist
qmc	Chloritic quartz-muscovite schist
qmp	Chloritic quartz-muscovite schist with plagioclase porphyroblasts

MINERALIZATION

In the centre part of the Top property, surveys conducted by Nordac show strong multi-element stream sediment geochemical anomalies. These appear to reflect a source hosted within a sequence of felsic metavolcanic rocks that includes an iron oxide-rich unit exposed in road cuts (Figure 4). Cominco geologists located oxidized massive sulphide float cobbles in another road cut in the south-eastern part of the Top property.

Excavator trenches dug by Nordac exposed a metamorphosed andesitic to rhyolitic succession that is capped with a completely oxidized and probably leached, 0.7 m thick barium, manganese and base metal enriched horizon. A channel sample of this material returned 250 ppm copper, 1980 ppm lead, 2830 ppm zinc, 4490 ppm manganese and 2190 ppm barium. The metalliferous horizon is overlain by siliceous graphitic phyllite and a thin layer of oxidized iron formation.

2011 PERCUSSION DRILLING

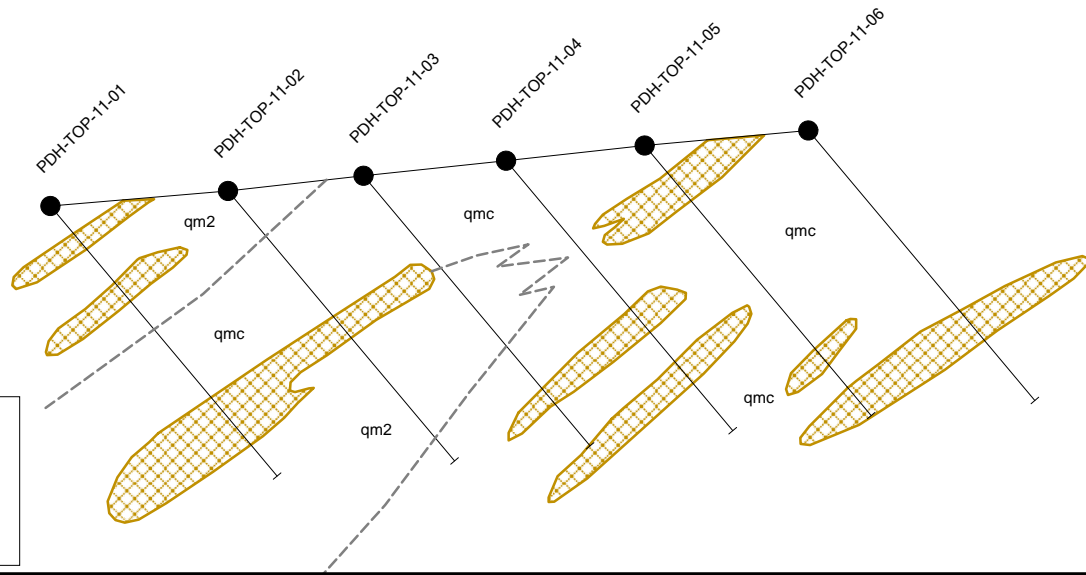
The 2011 drill program was design to test the mineralized horizon that Nordac identified near the centre of the property.


A self-propelled, track-mounted reverse circulation percussion drill contracted from Thorman Drilling Ltd. of Nelson, British Columbia performed the work. Six holes totaling 419.76 m were completed by a three person drill crew. Drilling was executed on a section line oriented perpendicular to geophysical and geochemical trends (Figures 4 and 5).

Pulverized cuttings from the holes were automatically split at the collar, resulting in samples consisting of 12.5% of the cuttings from each 1.52 m interval. The entire sample was sent for analysis. Representative chips from each interval were collected and logged using a binocular microscope. Sampling and analytical procedures are provided in Appendix II while Certificates of Analysis are given in Appendix III. Drill Logs are provided in Appendix IV.

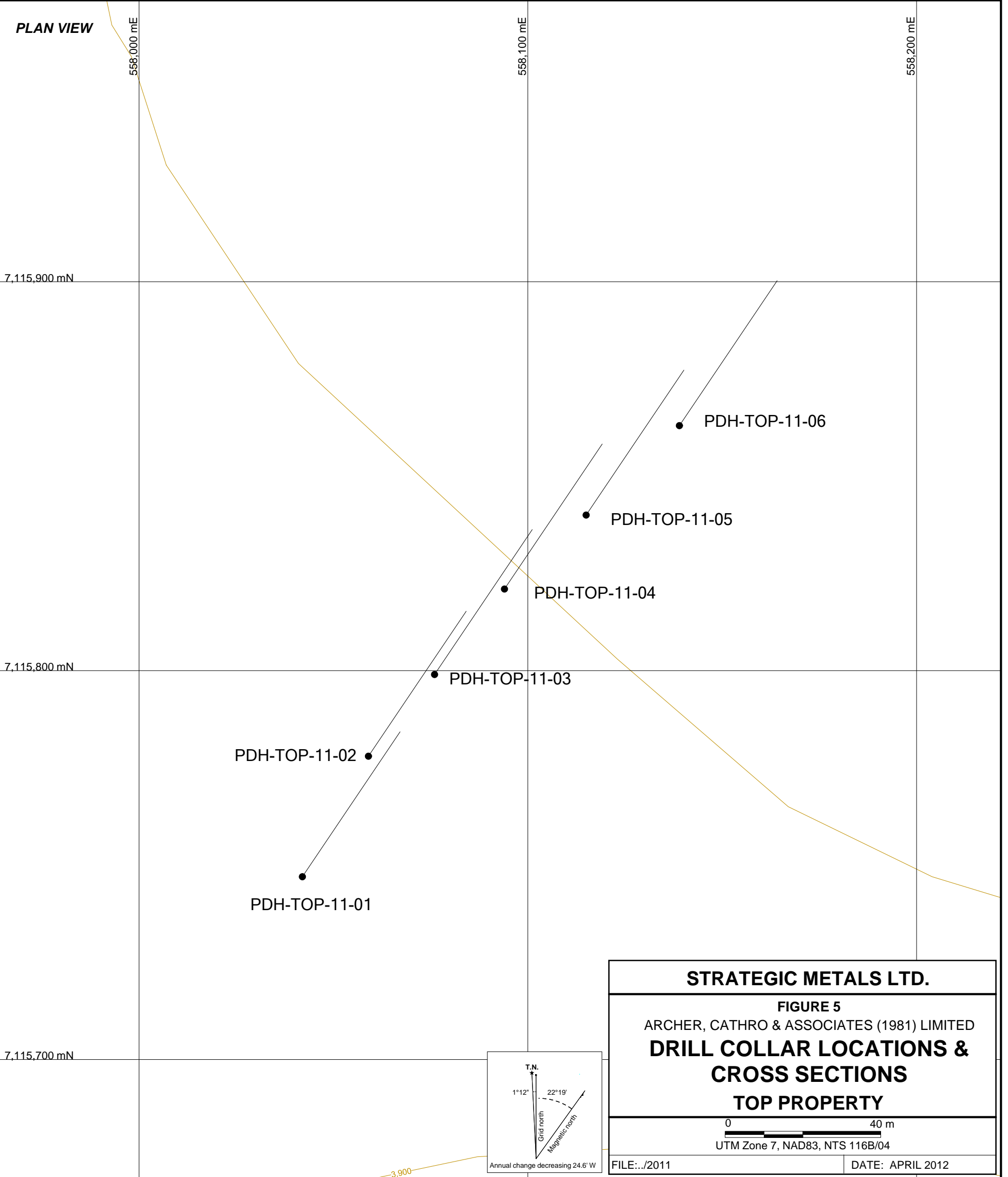
Significant results from the drilling are summarized in Table II. The best results come from

SECTION VIEW



- qmc chloritic quartz-muscovite schist
- qm2 quartz-muscovite schist
-  mineralized intervals

PLAN VIEW



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FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**DRILL COLLAR LOCATIONS &
 CROSS SECTIONS**
TOP PROPERTY

0 40 m
 UTM Zone 7, NAD83, NTS 116B/04

FILE:../2011

DATE: APRIL 2012

hole 5, where samples of strongly oxidized quartz-mica schist with milky quartz veins averaged 5.36 g/t silver, 0.15% lead, 0.04% copper, 0.06% zinc over 6.1 m.

The distribution of the mineralized intervals is consistent with shallow south-westerly dipping horizons, possibly wrapped around a fold nose, as shown on the cross section in Figure 5.

Table II – Significant drill hole results.

Hole ID	From (m)	To (m)	Interval (m)	Silver (g/t)	Lead (%)	Copper (%)	Zinc (%)
Top 11-01	21.34	22.86	1.52	0.54	0.05	0.003	0.02
Top 11-02	36.58	38.10	1.52	2.09	0.08	0.03	0.06
Top 11-03	56.39	57.91	1.52	0.69	0.03	0.006	0.003
Top 11-04	39.62	41.15	1.53	1.78	0.06	0.01	0.03
	53.34	54.86	1.52	1.16	0.16	0.01	0.08
Top 11-05	7.62	13.72	6.1	5.36	0.15	0.04	0.06
Top 11-06	47.24	48.77	1.52	1.4	0.009	0.09	0.04

DISCUSSION AND CONCLUSIONS

The Top area bears many stratigraphic and structural similarities to the Finlayson Lake region of southeast Yukon where a number of economically significant VMS occurrences have been discovered within the past two decades. Restoration of post Middle Cretaceous movement on the Tintina Fault places the well mineralized Finlayson Lake belt adjacent to the area where the Top property is located.

Previous exploration has identified thin, low-grade VMS style mineralization at two showings on the property.

Percussion drilling at one of the two showings confirmed the presence of metal enriched horizons; however, none of the intercepts was ore grade. Additional drilling will be required to determine the continuity of the VMS horizons along strike and down dip, and to search for areas of better grade mineralization. Reverse circulation drilling has proven to be more cost efficient than mechanical trenches to test for near surface mineralization in areas where there is frozen overburden. Unfortunately depth limitations for the percussion drill will require use of a diamond drill to test further down dip.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED.

A handwritten signature in blue ink that reads "Heather Smith". The signature is written in a cursive style with a large initial 'H' and a long, sweeping underline.

H. Smith, B.Sc., P.Geo.

R. Avram, B.Sc.

REFERENCES

- Carne, R. C.
1996 Geochemical Survey Report on the Top Property; Assessment Report 093535.
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2003 Yukon digital geology; Geological Survey of Canada, Open File 1749, and Yukon Geological Survey, Open File 2003-9(D).
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- Pride, K.R.
1996 Combined Helicopter-Borne Magnetic and Electromagnetic Survey and Soil and Rock Geochemical Survey, Floc Property; Assessment Report 093478.
- Wengzynowski, W.A.
2007 VTEM Geophysical Survey on the Top Property; Assessment Report.

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 2006 with a B. Sc. in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 34689).
4. I have personally participated in the fieldwork reported herein.



H. Smith, B.Sc., P.Geo.

STATEMENT OF QUALIFICATIONS

I, Radu Avram, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Burnaby, British Columbia do hereby certify that:

1. I graduated from the University Babes-Bolyai, Romania, in 1983 with a B. Sc. in Geological and Geophysical Engineering.
2. From 1983 to present, I have been engaged in mineral exploration.
3. I have personally logged the chip samples from the percussion drilling and have interpreted the data.

R. Avram, B.Sc.

APPENDIX II
SAMPLE HANDLING AND ANALYTICAL PROCEDURE

Preparation of percussion rock chips was carried out at ALS Chemex in Whitehorse, Yukon, where each sample was dried and fine crushed to better than 85% passing 75 micron. The fine fraction was then sent to ALS Chemex in North Vancouver, British Columbia, where splits were analysed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24 and ME-ICP41).

APPENDIX III
CERTIFICATES OF ANALYSIS



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

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Finalized Date: 11- NOV- 2011
Account: F

CERTIFICATE WH11184560

Project: TOP
 P.O. No.:
 This report is for 70 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8-SEP-2011.
 The following have access to data associated with this certificate:
 JOAN MARIACHER HEATHER SMITH

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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

To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
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Page: 2 - A
 Total # Pages: 3 (A - F)
 Plus Appendix Pages
 Finalized Date: 11- NOV- 2011
 Account: F

Project: TOP

CERTIFICATE OF ANALYSIS WH11184560

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
K975901		0.45	0.002	<0.2	1.44	2	<10	610	<0.5	<2	0.35	1.2	6	6	13	1.54
K975902		0.59	0.002	<0.2	0.59	5	<10	630	<0.5	<2	0.29	0.5	3	5	9	1.11
K975903		0.66	0.002	<0.2	0.25	13	<10	220	<0.5	<2	0.04	<0.5	2	5	7	1.18
K975904		0.58	0.003	<0.2	0.65	6	<10	370	<0.5	<2	0.23	<0.5	5	6	13	1.41
K975905		0.47	0.001	<0.2	1.48	<2	<10	340	<0.5	<2	0.34	0.9	6	7	15	1.38
K975906		0.84	0.001	<0.2	0.86	<2	<10	330	<0.5	<2	0.23	1.1	3	5	11	0.79
K975907		0.96	0.002	0.2	0.90	2	<10	250	<0.5	<2	0.26	1.5	3	6	9	1.18
K975908		1.13	0.001	0.3	0.63	<2	<10	460	0.5	<2	0.16	1.2	3	5	13	0.74
K975909		0.85	0.001	0.4	0.47	2	<10	330	0.5	<2	0.09	2.6	4	6	14	0.74
K975910		1.17	0.002	<0.2	0.40	3	<10	410	0.5	<2	0.09	0.6	2	8	4	0.84
K975911		1.39	0.001	<0.2	0.56	<2	<10	260	<0.5	<2	0.44	<0.5	2	7	3	0.69
K975912		0.56	0.002	<0.2	0.03	3	<10	30	<0.5	<2	20.6	<0.5	1	<1	<1	0.42
K975913		1.16	0.001	<0.2	0.95	5	<10	270	0.7	<2	0.67	<0.5	7	9	18	0.91
K975914		0.67	0.001	<0.2	0.84	<2	<10	240	<0.5	<2	0.36	<0.5	3	5	4	0.68
K975915		1.00	0.003	<0.2	0.79	<2	<10	270	0.5	<2	0.37	<0.5	3	7	5	0.78
K975916		1.42	0.002	0.2	0.30	17	<10	220	<0.5	<2	0.10	<0.5	2	9	6	1.11
K975917		1.36	0.001	<0.2	0.35	5	<10	140	<0.5	<2	0.09	<0.5	3	10	5	0.83
K975918		1.19	<0.001	<0.2	0.65	<2	<10	230	0.5	<2	0.36	<0.5	3	7	4	0.69
K975919		0.92	0.002	<0.2	0.63	2	<10	280	0.6	<2	1.19	<0.5	3	9	9	0.64
K975920		1.19	0.002	<0.2	0.76	3	<10	340	0.6	<2	0.63	<0.5	4	8	14	0.86
K975921		0.98	0.003	<0.2	0.74	3	<10	290	0.5	<2	0.46	<0.5	3	6	9	0.72
K975922		0.79	0.001	<0.2	0.66	<2	<10	260	<0.5	<2	0.25	<0.5	4	6	9	0.74
K975923		0.69	0.002	0.2	0.26	4	<10	280	<0.5	<2	0.06	0.7	2	11	3	0.85
K975924		0.63	0.001	0.3	0.71	<2	<10	420	0.5	<2	0.11	1.0	3	5	8	0.93
K975925		0.59	0.002	0.7	0.36	5	<10	150	<0.5	<2	0.09	0.7	2	8	68	0.71
K975926		0.62	0.002	0.2	0.27	11	<10	120	<0.5	<2	0.05	1.7	2	8	33	0.87
K975927		0.67	0.002	0.4	0.24	5	<10	110	<0.5	<2	0.04	1.2	2	10	13	0.76
K975928		0.62	0.002	0.3	0.31	6	<10	180	<0.5	<2	0.08	2.2	4	8	11	0.83
K975929		0.71	0.001	<0.2	0.40	<2	<10	400	<0.5	<2	1.08	1.9	3	5	5	0.58
K975930		0.32	0.002	<0.2	0.78	3	<10	250	<0.5	<2	0.19	<0.5	4	6	8	0.83
K975931		0.51	0.001	<0.2	0.98	3	<10	370	<0.5	<2	0.28	0.7	4	8	6	0.94
K975932		0.49	0.001	<0.2	1.35	<2	<10	310	<0.5	<2	0.19	<0.5	3	6	4	1.08
K975933		0.57	0.001	<0.2	1.75	2	<10	370	0.5	<2	0.18	<0.5	6	6	8	1.36
K975934		0.48	0.002	<0.2	1.94	<2	<10	300	0.5	<2	0.28	0.5	6	8	10	1.61
K975935		0.36	0.002	<0.2	0.99	7	<10	520	0.5	<2	0.19	<0.5	4	7	10	1.38
K975936		0.52	0.002	0.2	0.24	8	<10	300	<0.5	<2	0.02	<0.5	2	6	5	1.46
K975937		0.68	0.001	<0.2	1.15	8	<10	380	<0.5	<2	0.35	0.6	4	7	11	1.36
K975938		0.54	<0.001	<0.2	1.04	7	<10	210	<0.5	<2	0.28	0.7	2	6	6	1.04
K975939		0.57	0.002	<0.2	1.03	4	<10	290	<0.5	<2	0.42	0.6	3	7	9	1.36
K975940		0.60	0.001	<0.2	0.77	<2	<10	340	<0.5	<2	0.21	1.0	4	5	13	0.93



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K975901		<10	<1	0.24	20	1.15	208	1	0.03	11	540	24	0.15	<2	1	38
K975902		<10	<1	0.22	30	0.39	65	1	0.04	5	470	21	0.08	<2	1	36
K975903		<10	<1	0.19	30	0.02	51	3	0.04	3	500	29	0.10	<2	1	22
K975904		<10	<1	0.26	20	0.28	86	2	0.04	4	500	15	0.32	3	2	64
K975905		<10	<1	0.28	10	1.23	186	1	0.02	7	500	19	0.01	2	1	41
K975906		<10	<1	0.22	20	0.60	213	1	0.02	4	220	38	<0.01	<2	1	33
K975907		<10	<1	0.37	20	0.51	203	1	0.02	5	210	25	<0.01	<2	1	43
K975908		<10	<1	0.31	20	0.27	176	1	0.03	5	210	54	0.01	<2	1	21
K975909		<10	<1	0.30	40	0.15	370	1	0.03	6	240	56	<0.01	<2	<1	9
K975910		<10	<1	0.26	40	0.10	113	1	0.03	3	210	16	<0.01	2	1	13
K975911		<10	<1	0.38	30	0.22	103	1	0.02	3	210	26	<0.01	<2	1	27
K975912		<10	<1	0.01	<10	12.95	190	<1	0.02	<1	210	2	0.05	<2	<1	48
K975913		<10	<1	0.32	30	0.56	247	1	0.04	14	590	26	<0.01	<2	3	78
K975914		<10	<1	0.42	20	0.69	97	1	0.02	3	220	22	<0.01	<2	1	37
K975915		<10	<1	0.35	20	0.49	133	1	0.03	2	220	35	0.01	3	1	46
K975916		<10	<1	0.24	20	0.09	53	3	0.04	2	150	23	0.33	<2	1	32
K975917		<10	<1	0.22	30	0.07	172	2	0.03	3	170	24	0.08	2	1	24
K975918		<10	<1	0.34	30	0.35	139	1	0.02	4	220	23	0.01	<2	1	30
K975919		<10	<1	0.29	20	0.25	219	1	0.04	2	490	20	0.01	<2	2	59
K975920		<10	<1	0.32	10	0.38	148	1	0.03	5	480	16	0.01	2	1	53
K975921		<10	<1	0.30	10	0.53	103	1	0.02	4	240	21	0.06	<2	1	48
K975922		<10	<1	0.27	30	0.47	110	1	0.02	3	210	41	0.01	<2	1	28
K975923		<10	<1	0.23	30	0.04	85	3	0.02	2	190	20	<0.01	<2	<1	8
K975924		<10	<1	0.26	40	0.41	377	1	0.02	2	200	228	<0.01	2	1	12
K975925		<10	<1	0.21	30	0.10	164	1	0.02	2	180	258	<0.01	<2	<1	8
K975926		<10	<1	0.21	30	0.03	212	2	0.01	3	150	129	<0.01	<2	<1	6
K975927		<10	<1	0.20	30	0.02	211	2	0.02	2	140	134	<0.01	<2	<1	5
K975928		<10	<1	0.21	30	0.04	192	2	0.03	4	180	30	<0.01	<2	<1	6
K975929		<10	<1	0.28	30	0.15	174	1	0.01	1	190	26	0.01	<2	1	24
K975930		<10	<1	0.17	20	0.48	169	1	0.02	4	250	32	<0.01	<2	1	26
K975931		<10	<1	0.14	10	0.72	152	1	0.02	4	310	20	<0.01	<2	1	36
K975932		<10	<1	0.13	10	1.23	151	1	0.03	4	260	10	<0.01	<2	1	24
K975933		<10	<1	0.13	20	1.62	314	1	0.04	9	300	26	<0.01	<2	1	28
K975934		<10	<1	0.15	20	1.65	198	1	0.04	10	430	12	<0.01	<2	1	34
K975935		<10	<1	0.20	30	0.60	89	1	0.04	6	450	19	0.02	2	1	27
K975936		<10	<1	0.17	30	0.03	36	3	0.06	3	460	28	0.32	2	1	29
K975937		<10	<1	0.41	10	0.88	153	1	0.03	9	500	15	0.12	<2	1	55
K975938		<10	<1	0.24	10	0.81	188	1	0.02	6	270	15	0.02	<2	1	33
K975939		<10	<1	0.54	10	0.64	145	<1	0.02	8	550	12	0.09	<2	1	50
K975940		<10	<1	0.39	10	0.30	604	1	0.02	14	280	12	<0.01	2	1	19



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		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm
		20	0.01	10	10	1	10	2	0.01	0.01	0.1	0.2	10	10	0.05	0.01
K975901		<20	0.06	<10	<10	5	<10	148	0.12	1.44	2.0	<0.2	<10	600	0.52	0.18
K975902		20	0.02	<10	<10	4	<10	63	0.12	0.59	4.8	<0.2	<10	610	0.39	0.17
K975903		20	0.02	<10	<10	3	<10	21	0.11	0.25	12.3	<0.2	<10	210	0.29	0.17
K975904		<20	0.11	<10	<10	5	<10	35	0.09	0.65	7.4	<0.2	<10	360	0.39	0.28
K975905		<20	0.07	<10	<10	5	<10	100	0.05	1.48	2.1	<0.2	<10	330	0.37	0.11
K975906		<20	0.03	<10	<10	2	<10	102	0.08	0.86	2.0	<0.2	<10	320	0.35	0.12
K975907		<20	0.03	<10	<10	2	<10	122	0.09	0.90	1.1	<0.2	<10	240	0.44	0.16
K975908		20	0.01	<10	<10	2	<10	107	0.24	0.63	0.8	<0.2	<10	450	0.54	0.32
K975909		20	<0.01	<10	<10	2	<10	118	0.29	0.47	1.7	<0.2	<10	320	0.64	0.30
K975910		20	<0.01	<10	<10	2	<10	39	0.15	0.40	1.5	<0.2	<10	400	0.56	0.25
K975911		20	0.01	<10	<10	1	<10	31	0.08	0.56	0.7	<0.2	<10	250	0.49	0.28
K975912		<20	<0.01	<10	10	2	<10	14	<0.01	0.03	<2	<0.2	<10	10	<0.05	0.01
K975913		20	0.10	<10	<10	11	<10	71	0.11	0.95	4.4	<0.2	<10	260	0.80	0.24
K975914		<20	0.04	<10	<10	2	<10	30	0.08	0.84	0.9	<0.2	<10	230	0.43	0.14
K975915		<20	0.04	<10	<10	2	<10	27	0.11	0.79	0.8	<0.2	<10	260	0.52	0.17
K975916		20	0.02	<10	<10	2	<10	11	0.15	0.30	16.5	<0.2	<10	210	0.28	0.08
K975917		20	0.01	<10	<10	2	<10	16	0.11	0.35	4.6	<0.2	<10	130	0.41	0.15
K975918		20	0.01	<10	<10	2	<10	31	0.11	0.65	1.5	<0.2	<10	220	0.58	0.19
K975919		<20	0.05	<10	<10	7	<10	32	0.10	0.63	1.4	<0.2	<10	270	0.67	0.22
K975920		<20	0.07	<10	<10	7	<10	50	0.15	0.76	1.3	<0.2	<10	330	0.65	0.17
K975921		<20	0.04	<10	<10	2	<10	35	0.09	0.74	0.6	<0.2	<10	280	0.52	0.22
K975922		20	0.02	<10	<10	2	<10	42	0.11	0.66	1.1	<0.2	<10	250	0.49	0.30
K975923		20	<0.01	<10	<10	2	<10	90	0.15	0.26	3.6	<0.2	<10	260	0.31	0.21
K975924		20	<0.01	<10	<10	2	<10	295	0.28	0.71	1.3	<0.2	<10	410	0.53	0.28
K975925		20	<0.01	<10	<10	1	<10	229	0.76	0.36	4.6	<0.2	<10	140	0.46	0.21
K975926		20	<0.01	<10	<10	1	<10	221	0.32	0.27	10.7	<0.2	<10	110	0.39	0.12
K975927		20	<0.01	<10	<10	1	<10	211	0.36	0.24	6.7	<0.2	<10	100	0.38	0.15
K975928		20	<0.01	<10	<10	1	<10	271	0.23	0.31	5.3	<0.2	<10	170	0.43	0.30
K975929		20	<0.01	<10	<10	1	<10	78	0.14	0.40	0.8	<0.2	<10	390	0.44	0.45
K975930		<20	0.03	<10	<10	3	<10	81	0.07	0.78	2.1	<0.2	<10	240	0.35	0.13
K975931		<20	0.05	<10	<10	3	<10	63	0.05	0.98	1.6	<0.2	<10	360	0.31	0.08
K975932		<20	0.03	<10	<10	2	<10	55	0.03	1.35	0.8	<0.2	<10	300	0.29	0.05
K975933		<20	0.02	<10	<10	3	<10	141	0.06	1.75	1.7	<0.2	<10	360	0.58	0.08
K975934		<20	0.05	<10	<10	5	<10	126	0.10	1.94	0.8	<0.2	<10	290	0.53	0.08
K975935		<20	0.07	<10	<10	6	<10	78	0.14	0.99	5.3	<0.2	<10	510	0.49	0.16
K975936		20	0.09	<10	<10	6	<10	42	0.07	0.24	8.8	<0.2	<10	290	0.21	0.13
K975937		<20	0.10	<10	<10	6	<10	90	0.04	1.15	3.4	<0.2	<10	370	0.30	0.11
K975938		<20	0.04	<10	<10	2	<10	69	0.04	1.04	5.5	<0.2	<10	200	0.27	0.14
K975939		<20	0.08	<10	<10	7	<10	79	0.03	1.03	1.3	<0.2	<10	280	0.30	0.10
K975940		<20	0.03	<10	<10	3	<10	108	0.08	0.77	0.8	<0.2	<10	330	0.38	0.06



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		Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm
K975901		0.35	1.19	44.3	7.0	6	1.16	15.0	1.50	4.81	0.10	0.04	0.01	0.011	0.23	24.0
K975902		0.29	0.56	54.2	2.6	5	1.32	10.8	1.08	2.55	0.10	0.20	<0.01	0.008	0.21	29.1
K975903		0.04	0.26	60.7	1.2	5	0.31	7.8	1.15	1.56	0.09	0.19	<0.01	0.009	0.18	34.6
K975904		0.23	0.27	42.8	4.1	6	1.34	15.0	1.37	2.95	0.08	0.07	0.01	0.014	0.25	23.3
K975905		0.34	0.85	21.4	5.3	7	1.31	16.4	1.34	4.00	0.07	0.03	<0.01	0.007	0.27	11.0
K975906		0.23	1.09	29.9	2.6	5	1.11	12.5	0.77	2.86	0.08	0.04	<0.01	0.006	0.22	17.6
K975907		0.26	1.40	29.7	2.2	6	3.53	10.5	1.14	2.98	0.08	0.04	<0.01	0.008	0.36	17.2
K975908		0.16	1.19	48.7	2.1	5	1.03	14.8	0.72	2.76	0.09	0.06	<0.01	0.010	0.30	25.8
K975909		0.09	2.62	70.5	2.8	6	0.89	15.8	0.72	2.63	0.10	0.07	<0.01	0.006	0.29	37.0
K975910		0.09	0.67	63.3	1.8	8	0.78	4.7	0.81	2.82	0.11	0.08	<0.01	0.007	0.25	39.0
K975911		0.44	0.31	62.5	1.5	7	1.15	4.2	0.67	2.48	0.10	0.06	<0.01	0.008	0.37	33.5
K975912		19.45	0.04	1.31	1.1	1	0.11	1.1	0.39	0.17	0.15	<0.02	0.01	<0.005	0.01	0.6
K975913		0.67	0.13	54.7	6.4	9	1.36	20.2	0.89	5.14	0.11	0.14	0.01	0.016	0.31	28.6
K975914		0.36	0.07	29.1	2.1	5	3.07	4.3	0.66	2.58	0.07	0.06	<0.01	0.005	0.41	16.5
K975915		0.37	0.15	35.7	2.6	7	1.09	5.7	0.76	2.89	0.07	0.07	<0.01	0.007	0.34	18.9
K975916		0.10	0.04	36.2	1.7	9	0.44	6.6	1.08	1.84	0.06	0.14	<0.01	0.009	0.23	22.9
K975917		0.09	0.13	60.3	2.7	10	0.44	5.8	0.80	2.23	0.09	0.09	<0.01	0.007	0.21	29.5
K975918		0.36	0.13	59.3	1.9	7	0.83	5.1	0.67	2.81	0.10	0.09	<0.01	0.008	0.33	32.2
K975919		1.19	0.03	46.6	2.3	9	0.77	11.0	0.62	3.24	0.08	0.09	<0.01	0.011	0.28	24.2
K975920		0.63	0.09	27.8	4.0	8	1.48	15.7	0.83	3.49	0.07	0.07	<0.01	0.009	0.31	14.7
K975921		0.46	0.05	24.9	2.5	6	1.44	11.0	0.70	2.63	0.06	0.06	<0.01	0.007	0.29	13.9
K975922		0.25	0.25	50.8	3.6	6	1.00	9.8	0.72	2.78	0.10	0.08	<0.01	0.009	0.26	28.3
K975923		0.06	0.64	57.2	1.7	11	0.57	3.6	0.83	1.64	0.09	0.14	<0.01	0.007	0.23	31.0
K975924		0.11	0.90	66.9	2.3	5	1.43	9.4	0.90	3.21	0.11	0.10	0.01	0.008	0.25	36.3
K975925		0.09	0.70	62.4	1.0	8	1.04	75.1	0.69	1.55	0.10	0.13	0.01	0.006	0.20	33.9
K975926		0.05	1.67	52.0	1.7	8	0.68	36.9	0.85	1.24	0.08	0.21	0.01	0.006	0.20	27.8
K975927		0.04	1.28	52.5	1.9	10	0.51	15.3	0.73	1.28	0.08	0.20	0.01	0.005	0.19	28.0
K975928		0.08	2.13	58.5	3.5	8	0.41	12.8	0.81	1.44	0.09	0.13	0.01	0.005	0.20	32.3
K975929		1.08	1.91	67.7	1.7	5	0.43	6.0	0.56	1.66	0.10	0.07	0.01	0.007	0.27	36.8
K975930		0.19	0.54	30.8	3.8	6	0.61	9.3	0.81	2.63	0.07	0.06	<0.01	0.006	0.17	16.4
K975931		0.28	0.70	18.95	3.3	8	0.44	7.3	0.91	2.95	0.07	0.04	<0.01	0.006	0.14	10.1
K975932		0.19	0.30	17.45	2.8	6	0.57	4.1	1.05	3.53	0.07	0.03	<0.01	0.005	0.13	9.2
K975933		0.18	0.39	42.3	5.1	6	1.08	8.7	1.32	4.67	0.10	0.05	0.01	0.007	0.12	23.2
K975934		0.28	0.49	29.9	5.9	8	0.82	10.5	1.56	5.16	0.09	0.03	<0.01	0.008	0.15	16.8
K975935		0.19	0.48	54.2	3.2	7	1.12	11.1	1.34	3.54	0.13	0.25	<0.01	0.009	0.19	27.6
K975936		0.02	0.17	53.6	1.0	6	0.24	6.2	1.41	1.73	0.08	0.32	<0.01	0.011	0.16	33.5
K975937		0.34	0.61	28.3	4.0	7	3.50	9.8	1.36	3.35	<0.05	0.07	0.01	0.010	0.41	14.9
K975938		0.27	0.69	23.0	2.0	6	1.04	6.5	1.04	3.05	<0.05	0.03	0.01	0.006	0.24	14.0
K975939		0.41	0.60	21.2	3.0	7	7.70	8.6	1.36	2.90	<0.05	0.03	<0.01	0.006	0.54	11.9
K975940		0.20	1.01	25.8	4.2	5	2.02	13.5	0.93	2.39	<0.05	0.02	0.01	0.005	0.39	15.4

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
		0.1	0.01	5	0.05	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2
K975901		20.3	1.11	208	0.71	0.02	0.33	13.0	540	24.0	13.2	<0.001	0.16	0.54	2.1	0.4
K975902		9.5	0.38	65	1.29	0.03	0.26	6.1	470	23.3	12.8	<0.001	0.09	0.45	1.5	0.3
K975903		0.7	0.02	51	2.51	0.03	0.31	3.0	500	28.4	8.2	<0.001	0.11	0.47	1.2	0.3
K975904		6.7	0.27	86	1.55	0.03	0.86	5.9	500	16.3	14.9	<0.001	0.33	0.65	2.1	0.3
K975905		16.6	1.19	186	0.85	0.01	0.32	9.6	500	19.1	15.0	<0.001	0.02	0.39	1.5	0.2
K975906		11.5	0.58	213	0.81	0.01	0.34	5.1	220	38.4	11.8	<0.001	0.01	0.33	1.1	0.2
K975907		10.6	0.49	203	1.05	0.01	0.27	6.1	210	24.7	23.5	<0.001	0.01	0.34	1.0	0.2
K975908		7.8	0.27	176	0.81	0.02	0.16	5.9	210	55.0	16.1	<0.001	0.02	0.42	1.2	0.3
K975909		5.3	0.14	370	1.20	0.02	0.06	7.5	240	57.3	15.9	<0.001	0.01	0.34	0.8	0.4
K975910		3.3	0.09	113	1.19	0.02	0.07	4.0	210	17.9	14.3	<0.001	0.01	0.41	0.9	0.4
K975911		7.2	0.22	103	0.99	0.01	0.20	3.5	210	26.5	19.6	<0.001	0.01	0.26	1.1	0.4
K975912		0.8	11.95	181	0.05	0.01	0.15	2.9	190	1.0	0.7	<0.001	<0.01	<0.05	0.3	0.2
K975913		10.7	0.54	247	0.84	0.03	0.58	15.6	590	25.3	15.7	<0.001	0.01	0.82	3.3	0.4
K975914		15.8	0.67	97	0.81	0.01	0.46	4.4	220	21.8	22.2	<0.001	0.01	0.58	1.1	0.2
K975915		11.7	0.47	133	0.97	0.01	0.49	3.6	220	34.9	15.3	<0.001	0.03	0.39	1.3	0.2
K975916		2.4	0.09	53	2.71	0.02	0.47	2.6	150	22.7	10.9	<0.001	0.34	0.37	0.9	0.2
K975917		2.8	0.07	172	2.07	0.02	0.16	3.1	170	26.1	11.1	<0.001	0.09	0.35	0.9	0.3
K975918		9.9	0.34	139	1.30	0.01	0.21	4.6	220	21.9	16.1	<0.001	0.02	0.46	1.4	0.5
K975919		7.2	0.24	219	1.14	0.03	0.48	4.3	490	20.8	14.8	<0.001	0.02	0.61	2.1	0.4
K975920		9.8	0.37	148	0.92	0.02	0.54	6.7	480	18.1	17.2	<0.001	0.02	0.52	1.9	0.3
K975921		13.5	0.52	103	0.98	0.01	0.54	5.1	240	21.3	15.1	<0.001	0.07	0.46	1.1	0.2
K975922		11.7	0.46	110	1.41	0.01	0.24	4.8	210	42.4	12.6	<0.001	0.02	0.49	1.1	0.4
K975923		1.3	0.04	85	2.88	0.01	0.08	3.1	190	20.9	10.5	<0.001	0.01	0.41	0.6	0.3
K975924		10.1	0.39	377	0.95	0.01	<0.05	2.9	200	228	12.9	<0.001	0.01	0.34	1.0	0.4
K975925		3.2	0.09	164	1.45	0.01	<0.05	2.2	180	258	10.7	<0.001	0.01	0.32	0.6	0.4
K975926		1.1	0.03	212	2.00	<0.01	<0.05	2.8	150	130.5	10.2	<0.001	0.02	0.33	0.6	0.4
K975927		1.0	0.02	211	2.12	0.01	0.05	2.9	140	136.5	10.3	<0.001	0.01	0.25	0.6	0.4
K975928		2.2	0.04	192	1.52	0.02	<0.05	4.4	180	31.1	10.2	<0.001	0.01	0.26	0.6	0.3
K975929		5.5	0.14	174	1.06	<0.01	<0.05	1.8	190	25.7	11.2	<0.001	0.02	0.53	1.2	0.4
K975930		9.6	0.47	169	0.96	0.01	0.52	5.2	250	33.0	10.5	<0.001	0.01	0.30	1.0	0.3
K975931		12.1	0.70	152	1.19	0.01	0.51	5.8	310	20.5	9.7	<0.001	0.01	0.31	1.1	0.2
K975932		27.3	1.19	151	0.88	0.02	0.30	5.6	260	9.3	8.7	<0.001	0.01	0.23	1.0	0.2
K975933		39.8	1.58	314	0.95	0.03	0.25	10.9	300	25.1	8.6	<0.001	0.01	0.32	1.4	0.3
K975934		39.5	1.60	198	0.75	0.03	0.23	11.5	430	11.6	9.8	<0.001	0.01	0.32	1.5	0.3
K975935		13.3	0.58	89	1.50	0.03	0.40	6.8	450	18.7	12.0	<0.001	0.03	0.51	1.6	0.5
K975936		0.9	0.03	36	2.71	0.05	0.74	2.9	460	28.2	7.1	<0.001	0.33	0.58	1.3	0.3
K975937		12.7	0.88	153	1.06	0.03	0.50	7.9	500	13.3	26.9	<0.001	0.12	0.59	1.4	0.2
K975938		10.3	0.81	188	0.96	0.02	0.31	6.5	270	14.1	11.9	<0.001	0.02	0.43	0.8	0.4
K975939		10.4	0.64	145	0.79	0.02	0.42	8.4	550	11.8	41.9	<0.001	0.09	0.38	1.0	<0.2
K975940		8.2	0.30	604	1.61	0.02	0.21	14.4	280	11.5	23.1	<0.001	<0.01	0.31	0.8	0.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.2	0.01	0.01	0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
K975901		0.7	39.3	0.01	0.01	13.0	0.061	0.12	1.59	5	0.37	10.65	148	1.0
K975902		0.5	36.1	0.01	<0.01	15.3	0.025	0.11	1.46	4	0.54	8.58	63	7.9
K975903		0.6	22.0	<0.01	<0.01	16.1	0.024	0.06	2.25	3	0.53	7.01	21	7.7
K975904		0.9	66.0	0.01	0.01	12.7	0.111	0.28	1.62	5	0.70	7.77	35	2.0
K975905		0.5	42.4	0.01	<0.01	7.3	0.066	0.15	1.25	5	0.56	5.64	100	0.9
K975906		0.5	33.3	<0.01	<0.01	10.3	0.032	0.12	1.74	2	0.51	5.81	102	0.7
K975907		0.6	43.8	<0.01	<0.01	10.9	0.026	0.24	1.43	2	0.61	7.87	122	0.8
K975908		0.5	21.3	<0.01	<0.01	16.7	0.010	0.15	1.14	2	0.63	9.81	107	1.2
K975909		0.4	9.7	<0.01	<0.01	19.5	<0.005	0.12	1.73	2	0.76	11.40	118	2.0
K975910		0.6	12.5	<0.01	<0.01	19.0	<0.005	0.10	1.46	2	1.11	16.95	39	2.1
K975911		0.5	27.4	0.01	<0.01	20.7	0.013	0.17	2.13	1	0.65	13.55	31	1.6
K975912		<0.2	42.3	<0.01	0.01	<0.2	<0.005	<0.02	0.56	2	<0.05	0.80	12	<0.5
K975913		1.2	78.6	0.01	<0.01	15.4	0.095	0.18	1.61	11	0.66	12.10	71	3.5
K975914		0.6	37.7	0.01	<0.01	12.0	0.035	0.27	1.37	2	0.92	5.41	30	1.3
K975915		0.7	45.9	0.01	<0.01	11.7	0.039	0.19	1.66	2	0.76	7.22	27	1.8
K975916		1.0	31.6	<0.01	<0.01	15.6	0.023	0.73	2.66	2	2.72	4.78	11	4.2
K975917		0.7	23.5	<0.01	0.01	18.5	0.008	0.35	1.66	2	1.61	10.15	16	2.3
K975918		0.7	29.1	0.01	<0.01	20.2	0.013	0.20	1.53	2	0.87	15.75	31	2.2
K975919		0.9	57.4	0.01	<0.01	15.0	0.052	0.12	1.37	7	0.91	12.60	32	2.3
K975920		0.7	54.1	0.01	<0.01	10.6	0.073	0.14	1.23	7	0.75	7.20	50	1.7
K975921		0.6	48.7	0.01	<0.01	11.7	0.042	0.13	1.65	2	1.13	7.07	35	1.3
K975922		0.6	26.9	0.01	<0.01	17.7	0.017	0.11	1.70	2	1.09	10.85	42	1.8
K975923		0.6	7.8	<0.01	<0.01	19.0	<0.005	0.08	1.14	2	0.99	6.89	90	4.3
K975924		0.5	11.1	<0.01	<0.01	20.6	<0.005	0.13	2.13	2	0.49	12.05	295	2.8
K975925		0.4	7.1	<0.01	0.01	23.3	<0.005	0.08	2.11	1	0.75	10.85	229	4.1
K975926		0.3	6.3	<0.01	0.01	16.9	<0.005	0.10	2.54	1	1.35	8.54	221	6.4
K975927		0.3	4.5	<0.01	<0.01	17.0	<0.005	0.10	2.51	1	1.72	7.57	211	6.0
K975928		0.4	5.9	<0.01	<0.01	18.4	<0.005	0.11	2.11	1	0.95	9.19	271	4.1
K975929		0.3	25.2	<0.01	<0.01	20.5	<0.005	0.11	1.88	1	0.55	12.55	78	2.0
K975930		0.5	25.5	<0.01	<0.01	11.2	0.025	0.10	1.68	3	0.48	6.14	81	1.8
K975931		0.5	35.9	0.01	<0.01	7.4	0.046	0.06	1.34	3	0.89	4.63	63	1.2
K975932		0.5	23.6	0.01	<0.01	6.8	0.028	0.05	1.00	2	0.78	4.90	55	0.7
K975933		0.6	28.2	0.01	<0.01	12.9	0.023	0.09	1.66	3	0.50	9.56	141	1.3
K975934		0.6	34.1	0.01	<0.01	10.2	0.047	0.07	1.25	5	0.55	7.78	126	0.7
K975935		0.8	26.6	0.01	<0.01	13.8	0.072	0.11	2.04	6	0.24	9.98	78	9.1
K975936		1.0	29.0	<0.01	0.01	16.8	0.086	0.08	2.31	6	0.55	3.71	42	12.3
K975937		0.7	52.7	0.01	<0.01	8.8	0.102	0.26	1.58	6	0.84	5.28	90	1.8
K975938		0.5	34.3	0.01	<0.01	9.6	0.044	0.14	1.63	2	0.80	5.01	69	0.8
K975939		0.5	51.6	<0.01	<0.01	7.0	0.077	0.38	0.94	7	0.76	4.14	79	0.6
K975940		0.5	19.7	<0.01	0.01	12.4	0.027	0.31	0.91	3	0.64	6.56	108	0.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K975941		0.65	0.001	<0.2	0.52	3	<10	320	<0.5	<2	0.20	<0.5	2	6	4	0.57
K975942		0.41	0.001	<0.2	0.37	3	<10	350	<0.5	<2	0.18	0.7	2	5	10	0.42
K975943		0.67	<0.001	<0.2	0.40	5	<10	240	<0.5	<2	0.13	0.8	3	5	7	0.98
K975944		0.36	0.001	<0.2	0.39	9	<10	160	0.5	<2	0.15	0.6	2	7	7	0.56
K975945		0.31	0.002	0.3	0.49	4	<10	190	0.6	<2	0.13	1.5	3	6	6	0.81
K975946		0.24	0.001	0.2	0.45	3	<10	210	0.5	<2	0.12	2.1	3	7	8	0.89
K975947		0.59	0.001	0.2	0.55	2	<10	300	0.6	<2	0.10	6.2	4	6	9	0.82
K975948		0.60	0.001	<0.2	0.04	4	<10	20	<0.5	<2	18.0	<0.5	1	1	2	0.40
K975949		0.74	0.001	<0.2	0.54	5	<10	320	0.5	<2	0.16	1.0	2	6	5	0.94
K975950		0.71	0.001	0.3	0.42	6	<10	220	<0.5	<2	0.20	<0.5	2	6	7	1.14
K975951		0.74	<0.001	<0.2	0.45	6	<10	320	<0.5	<2	0.26	<0.5	2	8	8	0.86
K975952		0.48	<0.001	<0.2	0.42	5	<10	470	0.5	<2	1.50	<0.5	1	9	7	0.63
K975953		0.46	0.001	<0.2	0.53	3	<10	410	0.5	<2	0.43	0.6	3	9	7	0.71
K975954		0.45	0.001	<0.2	0.67	3	<10	370	<0.5	<2	0.42	<0.5	3	7	11	0.71
K975955		0.47	<0.001	<0.2	0.46	4	<10	320	<0.5	<2	0.20	<0.5	2	7	4	0.71
K975956		0.48	<0.001	<0.2	0.55	3	<10	270	<0.5	<2	0.19	<0.5	1	6	4	0.52
K975957		0.44	<0.001	<0.2	0.26	8	<10	170	<0.5	<2	0.12	<0.5	2	9	3	0.87
K975958		0.51	0.002	0.2	0.52	4	<10	270	<0.5	<2	0.28	0.5	2	7	7	0.65
K975959		0.60	0.001	<0.2	0.55	3	<10	310	<0.5	<2	0.47	0.9	1	6	5	0.81
K975960		0.51	0.001	0.2	0.29	5	<10	120	<0.5	<2	0.06	0.8	1	8	10	0.77
K975961		0.51	0.003	0.2	0.28	5	<10	120	<0.5	<2	0.06	1.1	2	10	8	0.94
K975962		0.43	0.002	1.4	0.27	4	<10	90	<0.5	<2	0.05	0.8	2	10	87	1.00
K975963		0.32	0.002	0.4	0.26	5	<10	90	<0.5	<2	0.04	0.7	1	9	45	0.75
K975964		0.51	0.002	0.4	0.53	2	<10	330	0.5	<2	0.45	3.9	2	6	33	0.85
K975965		0.50	0.002	0.6	0.69	5	<10	250	<0.5	<2	0.33	3.5	2	6	10	1.14
K975966		0.58	0.001	0.4	0.48	5	<10	380	0.5	<2	0.11	3.3	3	6	8	0.68
K975967		0.52	0.001	0.5	0.38	6	<10	350	0.6	<2	0.08	1.1	3	7	14	0.83
K975968		0.60	0.001	0.3	0.24	5	<10	130	<0.5	<2	0.05	2.1	2	10	13	0.85
K975969		0.53	0.001	0.3	0.35	4	<10	270	0.5	<2	0.12	2.7	2	8	11	0.87
K975970		0.50	0.001	0.2	0.46	3	<10	180	0.5	<2	0.30	3.5	2	7	9	0.67

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CERTIFICATE OF ANALYSIS WH11184560

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
K975941		<10	<1	0.33	10	0.16	113	1	0.03	5	230	13	<0.01	<2	1	19
K975942		<10	<1	0.30	30	0.05	406	1	0.03	3	220	40	0.01	<2	1	12
K975943		<10	<1	0.29	20	0.09	248	1	0.02	4	200	23	0.01	<2	1	12
K975944		<10	<1	0.25	20	0.10	149	1	0.02	5	190	19	<0.01	<2	1	13
K975945		<10	<1	0.27	30	0.17	575	1	0.02	6	210	18	<0.01	<2	1	12
K975946		<10	<1	0.28	30	0.11	518	1	0.03	6	220	21	<0.01	<2	1	11
K975947		<10	<1	0.30	40	0.19	1185	2	0.03	11	250	43	<0.01	<2	1	10
K975948		<10	<1	0.03	<10	11.35	174	<1	0.01	1	210	3	0.01	<2	<1	42
K975949		<10	<1	0.26	40	0.21	360	1	0.02	5	320	26	0.01	<2	1	12
K975950		<10	<1	0.20	30	0.20	103	1	0.04	4	210	57	0.03	<2	1	13
K975951		<10	<1	0.31	40	0.11	144	1	0.03	4	300	24	0.01	<2	1	16
K975952		<10	<1	0.28	20	0.05	461	1	0.04	2	560	16	0.01	<2	1	54
K975953		<10	<1	0.28	10	0.09	196	1	0.05	4	560	10	0.01	<2	1	40
K975954		<10	<1	0.41	10	0.22	242	1	0.03	4	510	13	<0.01	<2	1	43
K975955		<10	<1	0.29	10	0.12	111	1	0.03	3	240	37	0.02	<2	1	18
K975956		<10	<1	0.37	20	0.18	55	1	0.01	2	200	19	0.06	<2	<1	26
K975957		<10	<1	0.21	20	0.04	89	2	0.03	2	210	26	0.10	<2	1	12
K975958		<10	<1	0.29	20	0.19	123	1	0.02	4	210	24	0.09	<2	1	39
K975959		<10	<1	0.30	30	0.29	145	1	0.02	3	210	27	0.03	<2	1	40
K975960		<10	<1	0.25	30	0.04	182	2	0.02	2	170	99	<0.01	<2	<1	5
K975961		<10	<1	0.21	30	0.04	196	2	0.02	3	180	88	0.02	<2	<1	5
K975962		<10	<1	0.21	30	0.04	585	3	0.01	3	160	911	0.01	2	<1	4
K975963		<10	<1	0.22	30	0.03	278	2	0.01	2	160	473	0.01	<2	<1	4
K975964		<10	<1	0.30	40	0.28	419	1	0.01	3	190	408	0.04	<2	1	30
K975965		<10	<1	0.28	30	0.42	870	1	0.01	3	200	765	0.02	<2	1	14
K975966		<10	<1	0.31	40	0.18	450	1	0.01	3	230	66	0.01	<2	1	10
K975967		<10	<1	0.32	30	0.08	230	1	0.01	4	230	49	0.04	<2	<1	9
K975968		<10	<1	0.22	30	0.02	439	2	0.01	2	160	137	0.02	<2	<1	5
K975969		<10	<1	0.24	30	0.08	303	1	0.02	3	310	38	0.02	<2	1	14
K975970		<10	<1	0.34	40	0.15	205	1	0.02	3	430	44	0.01	<2	1	17

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm
		20	0.01	10	10	1	10	2	0.01	0.01	0.1	0.2	10	10	0.05	0.01
K975941		<20	0.03	<10	<10	2	<10	41	0.02	0.52	0.5	<0.2	<10	310	0.30	0.14
K975942		20	0.01	<10	<10	1	<10	45	0.06	0.37	0.7	<0.2	<10	340	0.34	0.38
K975943		20	0.02	<10	<10	1	<10	77	0.04	0.40	1.9	<0.2	<10	230	0.33	0.27
K975944		<20	0.02	<10	<10	2	<10	65	0.05	0.39	6.3	<0.2	<10	150	0.45	0.34
K975945		20	0.01	<10	<10	2	<10	137	0.15	0.49	1.3	<0.2	<10	180	0.60	0.29
K975946		20	0.01	<10	<10	2	<10	101	0.15	0.45	1.6	<0.2	<10	200	0.55	0.25
K975947		20	<0.01	<10	<10	2	<10	202	0.22	0.55	1.7	<0.2	<10	280	0.62	0.30
K975948		<20	<0.01	<10	<10	1	<10	14	0.03	0.04	4	<0.2	<10	10	0.06	0.02
K975949		20	<0.01	<10	<10	4	<10	88	0.15	0.54	1.9	<0.2	<10	310	0.53	0.22
K975950		20	<0.01	<10	<10	1	<10	19	0.21	0.42	4.9	<0.2	<10	210	0.34	0.39
K975951		20	0.01	<10	<10	2	<10	28	0.10	0.45	2.3	<0.2	<10	310	0.36	0.20
K975952		<20	0.08	<10	<10	5	<10	24	0.06	0.42	2.3	<0.2	<10	460	0.44	0.19
K975953		<20	0.09	<10	<10	6	<10	57	0.04	0.53	1.3	<0.2	<10	400	0.45	0.08
K975954		<20	0.08	<10	<10	5	<10	41	0.05	0.67	1.0	<0.2	<10	350	0.38	0.15
K975955		<20	0.04	<10	<10	2	<10	17	0.08	0.46	1.2	<0.2	<10	300	0.35	0.38
K975956		<20	0.03	<10	<10	1	<10	18	0.05	0.55	0.6	<0.2	<10	260	0.26	0.14
K975957		20	0.04	<10	<10	2	<10	18	0.03	0.26	4.0	<0.2	<10	160	0.23	0.22
K975958		<20	0.04	<10	<10	1	<10	39	0.09	0.52	1.4	<0.2	<10	260	0.35	0.50
K975959		20	0.02	<10	<10	1	<10	74	0.12	0.55	0.9	<0.2	<10	300	0.39	0.24
K975960		20	<0.01	<10	<10	1	<10	152	0.20	0.29	3.2	<0.2	<10	110	0.36	0.25
K975961		20	<0.01	<10	<10	2	<10	190	0.14	0.28	3.8	<0.2	<10	110	0.37	0.16
K975962		20	<0.01	<10	<10	2	<10	411	1.35	0.27	3.9	<0.2	<10	80	0.40	0.24
K975963		20	<0.01	<10	<10	2	<10	282	0.39	0.26	3.6	<0.2	<10	80	0.42	0.18
K975964		20	<0.01	<10	<10	2	<10	390	0.38	0.53	1.2	<0.2	<10	310	0.42	0.44
K975965		20	<0.01	<10	<10	2	<10	431	0.59	0.69	1.5	<0.2	<10	240	0.40	0.53
K975966		20	<0.01	<10	<10	1	<10	203	0.40	0.48	1.0	<0.2	<10	370	0.44	0.90
K975967		20	<0.01	<10	<10	2	<10	109	0.53	0.38	3.7	<0.2	<10	340	0.53	1.61
K975968		20	<0.01	<10	<10	1	<10	217	0.33	0.24	3.7	<0.2	<10	110	0.33	0.25
K975969		20	<0.01	<10	<10	5	<10	225	0.28	0.35	1.9	<0.2	<10	260	0.47	0.42
K975970		20	0.01	<10	<10	5	<10	217	0.15	0.46	1.2	<0.2	<10	170	0.46	0.27

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm
		0.01	0.01	0.02	0.1	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2
K975941		0.20	0.25	25.1	1.5	6	1.06	4.0	0.57	1.82	<0.05	0.03	0.01	0.006	0.33	14.1
K975942		0.17	0.73	52.6	1.7	5	0.72	9.9	0.42	1.49	<0.05	0.03	0.01	0.005	0.30	30.9
K975943		0.13	0.83	47.0	2.5	5	0.63	6.9	0.56	1.71	<0.05	0.04	<0.01	0.007	0.29	26.4
K975944		0.15	0.67	38.9	2.0	7	0.49	6.8	0.98	2.14	<0.05	0.04	0.01	0.009	0.25	22.2
K975945		0.13	1.58	65.5	3.2	6	0.75	5.8	0.81	2.73	0.06	0.05	<0.01	0.008	0.27	36.0
K975946		0.11	2.14	59.3	2.7	7	1.07	8.7	0.89	2.41	0.05	0.04	<0.01	0.006	0.28	34.1
K975947		0.10	6.57	80.7	3.6	6	1.40	10.2	0.82	2.85	0.06	0.08	0.01	0.009	0.30	43.8
K975948		18.00	0.07	1.61	0.6	1	0.13	2.1	0.40	0.14	<0.05	<0.02	<0.01	<0.005	0.03	0.8
K975949		0.16	1.00	71.1	2.4	6	3.62	5.6	0.94	2.37	0.06	0.12	<0.01	0.010	0.26	40.8
K975950		0.19	0.17	65.1	2.0	6	1.58	7.1	1.14	1.83	0.05	0.06	0.01	0.008	0.20	37.7
K975951		0.25	0.17	76.2	1.9	8	0.95	7.9	0.86	1.87	0.07	0.06	0.01	0.010	0.31	40.0
K975952		1.46	0.18	33.6	1.4	9	0.77	7.2	0.63	1.75	0.05	0.05	0.01	0.006	0.28	18.1
K975953		0.42	0.57	20.6	2.4	9	0.95	6.7	0.71	2.12	<0.05	0.05	<0.01	0.006	0.28	10.4
K975954		0.41	0.29	17.70	3.0	7	1.55	10.9	0.71	2.21	<0.05	0.05	0.01	0.005	0.41	9.3
K975955		0.20	0.13	28.0	1.8	7	0.69	4.6	0.71	1.66	<0.05	0.06	<0.01	0.007	0.29	15.7
K975956		0.18	0.18	36.3	1.0	6	1.01	4.4	0.52	1.61	<0.05	0.03	<0.01	0.006	0.37	21.1
K975957		0.11	0.27	47.6	1.5	9	0.39	3.4	0.87	1.35	<0.05	0.14	<0.01	0.008	0.21	23.7
K975958		0.27	0.53	28.5	1.7	7	0.76	5.0	0.65	1.84	<0.05	0.06	0.01	0.007	0.29	16.4
K975959		0.45	0.89	48.2	1.5	6	0.77	5.2	0.81	1.96	<0.05	0.05	<0.01	0.008	0.30	26.0
K975960		0.06	0.78	66.3	1.5	8	0.68	10.8	0.77	1.64	0.06	0.14	0.01	0.005	0.25	36.4
K975961		0.05	1.17	58.7	1.9	10	0.47	8.5	0.94	1.65	0.06	0.20	0.01	<0.005	0.21	34.8
K975962		0.05	0.80	61.3	2.1	10	0.50	87.0	1.00	1.43	0.06	0.22	0.05	0.007	0.21	32.2
K975963		0.04	0.67	56.1	1.4	9	0.54	46.6	0.75	1.38	0.05	0.18	0.01	<0.005	0.22	31.6
K975964		0.43	4.00	69.9	2.2	6	0.63	33.7	0.85	2.03	0.06	0.09	0.01	0.011	0.30	38.3
K975965		0.32	3.44	62.8	2.1	6	0.83	10.6	1.14	2.64	0.06	0.05	<0.01	0.009	0.28	34.4
K975966		0.10	3.24	72.0	2.7	6	0.59	7.3	0.68	1.77	0.07	0.05	<0.01	0.010	0.31	42.1
K975967		0.08	1.12	68.7	3.2	7	0.70	13.8	0.83	2.15	0.05	0.21	0.01	0.007	0.32	34.3
K975968		0.05	2.14	57.8	1.8	10	0.48	13.9	0.85	1.23	<0.05	0.15	<0.01	0.006	0.22	32.0
K975969		0.11	2.72	65.5	2.3	8	1.13	11.5	0.87	1.89	0.05	0.21	<0.01	0.009	0.24	32.0
K975970		0.29	3.54	81.4	1.7	7	0.94	9.3	0.67	2.12	0.08	0.24	<0.01	0.008	0.34	44.6

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
		0.1	0.01	5	0.05	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2
K975941		5.5	0.16	113	0.80	0.03	0.49	5.4	230	12.2	15.4	<0.001	<0.01	0.21	0.6	0.3
K975942		3.1	0.05	406	0.92	0.03	0.23	3.4	220	38.1	12.0	<0.001	0.01	0.24	0.7	0.5
K975943		5.1	0.09	248	0.84	0.02	0.29	4.0	200	21.3	12.2	<0.001	0.01	0.22	0.7	0.3
K975944		4.9	0.10	149	1.10	0.02	0.41	4.6	190	16.9	12.0	<0.001	<0.01	0.35	0.9	0.5
K975945		4.8	0.17	575	1.10	0.02	0.08	6.4	210	16.3	15.8	<0.001	<0.01	0.34	0.7	0.8
K975946		3.3	0.11	518	1.18	0.03	0.10	6.1	220	18.7	16.2	<0.001	<0.01	0.33	0.7	0.5
K975947		6.5	0.19	1180	1.96	0.03	<0.05	11.4	250	40.5	16.9	<0.001	<0.01	0.44	0.9	0.7
K975948		1.1	11.35	174	0.20	0.01	<0.05	1.6	210	1.4	1.2	0.001	0.01	0.06	0.2	0.2
K975949		5.6	0.21	360	0.99	0.02	<0.05	5.5	320	24.2	14.4	<0.001	0.01	0.49	0.9	0.4
K975950		5.6	0.20	103	1.28	0.04	<0.05	4.0	210	53.8	8.8	<0.001	0.03	0.31	0.7	0.5
K975951		3.9	0.11	144	1.06	0.03	0.13	3.9	300	22.5	13.3	<0.001	0.01	0.30	0.9	0.7
K975952		2.4	0.05	461	0.96	0.04	0.69	2.4	560	15.1	12.2	<0.001	0.01	0.29	1.1	0.3
K975953		3.7	0.09	196	0.94	0.05	0.71	4.3	560	9.3	12.6	<0.001	0.01	0.35	1.2	0.4
K975954		6.4	0.22	242	0.75	0.03	0.59	4.3	510	12.3	18.3	<0.001	<0.01	0.41	1.0	0.3
K975955		4.6	0.12	111	1.22	0.03	0.61	3.1	240	35.7	11.3	<0.001	0.02	0.34	0.7	<0.2
K975956		6.7	0.18	55	1.10	0.01	0.42	2.0	200	16.4	14.7	<0.001	0.06	0.24	0.5	<0.2
K975957		1.3	0.04	89	1.80	0.03	0.90	2.4	210	23.2	8.2	<0.001	0.10	0.38	0.9	0.2
K975958		5.4	0.19	123	1.28	0.02	0.62	2.8	210	22.7	12.2	<0.001	0.09	0.35	0.7	0.2
K975959		6.6	0.29	145	1.19	0.02	0.29	2.8	210	23.9	12.8	<0.001	0.03	0.29	1.1	0.3
K975960		1.5	0.04	182	2.36	0.02	0.06	2.4	170	94.4	12.9	<0.001	<0.01	0.26	0.5	0.4
K975961		1.5	0.04	196	1.88	0.02	0.05	2.9	180	86.1	10.4	<0.001	0.02	0.29	0.5	0.4
K975962		1.2	0.04	585	3.30	0.01	<0.05	2.8	160	911	9.8	<0.001	0.01	0.45	0.5	0.6
K975963		1.0	0.03	278	1.73	0.01	0.05	2.3	160	473	11.3	<0.001	0.01	0.26	0.5	0.3
K975964		6.8	0.28	419	1.27	0.01	0.05	3.0	190	408	13.5	<0.001	0.04	0.28	1.1	0.7
K975965		8.3	0.42	870	1.15	0.01	<0.05	3.1	200	765	12.3	<0.001	0.02	0.38	0.9	0.5
K975966		5.0	0.18	450	0.94	0.01	<0.05	3.7	230	58.4	14.0	<0.001	0.01	0.25	0.7	0.3
K975967		3.2	0.08	230	1.41	0.01	<0.05	4.2	230	46.9	16.0	<0.001	0.04	0.35	0.5	0.4
K975968		1.0	0.02	439	1.93	0.01	<0.05	2.5	160	130.5	9.6	<0.001	0.02	0.24	0.4	0.2
K975969		2.6	0.08	303	1.21	0.02	0.06	3.3	310	35.7	12.0	<0.001	0.02	0.40	0.9	0.2
K975970		4.3	0.15	205	0.93	0.02	0.06	3.2	430	42.4	15.8	<0.001	0.01	0.35	1.3	0.8

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



ALS Canada Ltd.
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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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CERTIFICATE OF ANALYSIS WH11184560

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.2	0.01	0.01	0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
K975941		0.5	20.0	0.01	0.01	11.6	0.034	0.11	0.70	2	1.25	6.00	41	0.7
K975942		0.4	12.2	<0.01	<0.01	17.7	0.013	0.09	1.54	1	0.89	12.30	45	0.9
K975943		0.5	11.9	<0.01	<0.01	16.7	0.017	0.09	1.44	1	0.81	10.55	77	0.9
K975944		0.7	12.3	<0.01	<0.01	15.3	0.025	0.10	1.22	2	1.57	11.20	65	1.0
K975945		0.5	11.8	<0.01	<0.01	20.8	0.006	0.11	1.32	2	1.36	15.05	137	1.1
K975946		0.5	11.2	<0.01	0.01	19.7	0.006	0.10	1.40	2	1.21	13.90	101	1.2
K975947		0.4	9.9	<0.01	0.01	22.9	<0.005	0.15	1.91	2	0.66	17.45	202	2.3
K975948		<0.2	43.4	<0.01	<0.01	0.3	<0.005	<0.02	0.47	1	0.06	0.86	14	<0.5
K975949		0.5	11.9	<0.01	<0.01	20.5	<0.005	0.11	1.29	4	0.57	12.80	88	4.6
K975950		0.5	13.0	<0.01	<0.01	21.1	<0.005	0.15	1.29	1	1.02	10.60	19	2.0
K975951		0.5	15.6	<0.01	<0.01	23.7	0.012	0.12	1.32	2	1.04	11.10	28	1.6
K975952		0.6	55.5	<0.01	<0.01	9.5	0.076	0.07	0.75	5	1.58	7.43	24	1.3
K975953		0.6	39.9	<0.01	<0.01	6.1	0.090	0.07	0.67	6	1.49	5.22	57	1.1
K975954		0.5	45.2	0.01	<0.01	5.9	0.084	0.14	0.77	5	1.17	4.12	41	1.0
K975955		0.7	19.9	0.01	<0.01	13.0	0.041	0.12	1.04	2	2.54	7.39	17	1.6
K975956		0.4	25.3	0.01	<0.01	13.1	0.027	0.10	1.74	1	1.00	5.88	18	1.0
K975957		1.1	11.4	<0.01	<0.01	18.1	0.039	0.07	1.23	2	3.75	8.16	18	2.8
K975958		1.1	40.6	0.01	<0.01	10.5	0.037	0.13	1.50	1	1.87	5.83	39	1.3
K975959		0.5	38.8	<0.01	0.01	16.0	0.017	0.10	2.16	1	1.22	8.71	74	1.3
K975960		0.5	5.5	<0.01	<0.01	18.6	<0.005	0.08	1.91	1	2.46	8.15	152	4.1
K975961		0.4	4.3	<0.01	<0.01	17.5	<0.005	0.07	1.92	2	2.57	9.49	190	5.6
K975962		0.4	3.7	<0.01	<0.01	17.6	<0.005	0.07	3.57	2	2.81	8.54	411	6.1
K975963		0.3	3.8	<0.01	<0.01	17.7	<0.005	0.08	2.51	2	2.09	7.48	282	5.2
K975964		0.4	30.3	<0.01	<0.01	21.5	<0.005	0.11	2.21	2	1.33	12.50	390	2.6
K975965		0.3	13.9	<0.01	<0.01	21.1	<0.005	0.09	2.57	2	0.65	10.50	431	1.6
K975966		0.7	9.5	<0.01	<0.01	20.9	<0.005	0.14	1.96	1	1.05	13.55	203	1.8
K975967		0.5	8.1	<0.01	<0.01	21.3	<0.005	0.12	3.38	2	1.24	10.50	109	6.7
K975968		0.3	5.3	<0.01	<0.01	16.8	<0.005	0.10	1.54	1	1.53	7.21	217	4.0
K975969		0.4	13.5	<0.01	<0.01	19.6	<0.005	0.10	1.63	5	1.45	8.91	225	6.4
K975970		0.5	17.2	<0.01	<0.01	24.0	0.005	0.14	1.95	5	0.70	15.60	217	7.7

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



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CERTIFICATE OF ANALYSIS WH11184560

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
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CERTIFICATE WH11181099

Project: TOP
 P.O. No.:
 This report is for 177 Rock samples submitted to our lab in Whitehorse, YT, Canada on 8-SEP-2011.
 The following have access to data associated with this certificate:
 JOAN MARIACHER HEATHER SMITH

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME- MS41	51 anal. aqua regia ICPMS	
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11181099

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
L837324		0.59	0.002	0.10	1.26	4.6	<0.2	<10	670	0.45	0.15	0.28	0.40	32.0	4.7	10
L837325		0.40	0.002	0.18	0.96	10.2	<0.2	<10	740	0.53	0.21	0.32	1.98	43.2	5.5	11
L837326		1.04	0.003	0.25	0.55	11.6	<0.2	<10	590	0.58	0.16	0.26	2.79	49.9	4.7	5
L837327		0.62	0.001	0.21	0.49	6.1	<0.2	<10	420	0.56	0.22	0.39	2.14	59.0	3.1	4
L837328		0.60	0.001	0.25	0.49	8.5	<0.2	<10	390	0.55	0.23	0.33	2.37	47.7	3.3	5
L837329		0.63	0.002	0.27	0.44	19.1	<0.2	<10	510	0.77	0.18	0.21	5.04	64.1	4.2	4
L837330		0.61	0.003	0.28	0.55	25.4	<0.2	<10	540	0.38	0.14	0.25	1.65	61.6	2.0	5
L837331		0.55	0.002	0.16	0.40	7.7	<0.2	<10	490	0.58	0.10	0.53	1.10	50.7	3.5	6
L837332		0.55	<0.001	0.13	0.43	4.0	<0.2	<10	380	0.67	0.07	0.59	1.58	62.8	3.7	5
L837333		0.68	<0.001	0.09	0.37	5.0	<0.2	<10	460	0.60	0.08	0.58	2.01	60.2	3.8	4
L837334		0.84	<0.001	0.08	0.86	3.2	<0.2	<10	310	0.58	0.17	1.46	0.75	34.9	3.8	5
L837335		0.85	0.002	0.05	1.44	1.3	<0.2	<10	780	0.40	0.13	0.41	0.41	15.10	5.5	4
L837336		0.52	0.001	0.06	1.50	2.4	<0.2	<10	420	0.40	0.25	0.65	0.14	19.65	6.1	6
L837337		0.55	<0.001	0.10	0.83	2.2	<0.2	<10	270	0.39	0.19	2.60	0.11	29.0	6.1	4
L837338		0.68	<0.001	0.54	1.88	4.5	<0.2	<10	1370	0.90	0.24	1.94	1.82	69.4	6.7	5
L837339		0.95	0.001	0.11	1.90	0.7	<0.2	<10	250	0.54	0.15	0.74	0.09	73.4	4.9	5
L837340		0.84	<0.001	0.08	2.11	1.0	<0.2	<10	240	0.47	0.13	0.68	0.10	50.1	5.6	6
L837341		0.98	<0.001	0.03	1.94	0.8	<0.2	<10	380	0.44	0.10	0.65	0.07	49.1	2.1	6
L837342		1.11	<0.001	0.05	1.66	0.8	<0.2	<10	870	0.44	0.11	0.46	0.06	43.5	2.5	9
L837343		0.97	0.001	0.11	2.54	3.2	<0.2	<10	570	0.70	0.16	1.01	0.31	52.2	10.7	188
L837344		0.91	<0.001	0.13	1.02	2.6	<0.2	<10	440	0.38	0.16	0.49	0.39	47.5	2.6	10
L837345		0.82	<0.001	0.16	1.67	2.9	<0.2	<10	1600	0.42	0.10	0.53	1.02	32.4	2.2	8
L837346		0.99	<0.001	0.07	1.58	1.4	<0.2	<10	2720	0.32	0.09	0.34	0.13	25.4	2.0	6
L837347		0.87	<0.001	0.04	1.43	1.5	<0.2	<10	960	0.34	0.04	0.27	0.14	39.2	2.8	6
L837348		0.53	<0.001	0.05	1.11	1.3	<0.2	<10	1930	0.36	0.06	0.25	0.11	24.3	2.6	6
L837349		0.93	<0.001	0.08	1.14	2.6	<0.2	<10	1770	0.28	0.07	0.25	0.57	15.70	2.2	8
L837350		0.73	0.003	0.07	1.51	3.0	<0.2	<10	870	0.41	0.11	0.26	1.23	29.6	3.3	7
L837351		0.89	<0.001	0.13	1.61	4.6	<0.2	<10	630	0.47	0.14	0.30	1.58	45.8	3.9	6
L837352		0.53	<0.001	0.14	1.73	8.7	<0.2	<10	450	0.52	0.14	0.46	3.54	27.5	4.1	34
L837353		0.97	0.001	0.13	1.65	4.9	<0.2	<10	430	0.57	0.17	0.31	1.03	35.6	2.7	8
L837354		0.98	<0.001	0.10	1.55	2.4	<0.2	<10	360	0.39	0.16	0.37	0.36	35.3	1.9	7
L837355		1.26	<0.001	0.17	0.78	5.1	<0.2	<10	220	0.45	0.18	0.35	0.74	51.9	2.3	8
L837356		0.87	0.002	0.17	0.56	5.0	<0.2	<10	200	0.46	0.10	0.41	0.66	55.5	1.9	9
L837357		0.72	0.001	0.67	0.48	2.5	<0.2	<10	490	0.47	0.09	0.23	1.71	53.1	1.7	8
L837358		0.65	0.001	0.62	1.11	1.5	<0.2	<10	410	0.45	0.15	0.32	1.65	58.1	2.5	7
L837359		0.91	0.006	0.26	1.81	1.3	<0.2	<10	240	0.51	0.09	0.36	1.14	27.7	4.0	6
L837360		0.50	<0.001	0.01	0.03	<2	<0.2	<10	10	<0.05	0.01	19.60	0.05	1.29	0.9	<1
L837361		0.89	<0.001	0.31	1.87	1.1	<0.2	<10	220	0.46	0.05	0.38	0.51	15.60	4.1	6
L837362		1.04	<0.001	0.20	1.92	2.8	<0.2	<10	230	0.58	0.11	0.58	0.92	25.9	5.0	7
L837363		1.00	<0.001	0.23	1.06	6.2	<0.2	<10	280	0.55	0.17	0.43	1.23	49.9	2.9	6

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CERTIFICATE OF ANALYSIS WH11181099

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
L837324		0.82	13.6	1.76	3.86	0.06	<0.02	0.04	0.012	0.18	18.5	16.9	0.72	332	0.90	0.02
L837325		0.84	30.1	1.96	3.60	0.07	0.03	0.04	0.013	0.19	24.2	11.0	0.48	546	1.84	0.02
L837326		0.87	21.4	1.59	2.67	0.08	0.25	0.03	0.010	0.18	34.2	2.4	0.10	516	1.67	0.04
L837327		0.52	15.4	1.03	3.04	0.08	0.18	0.03	0.011	0.16	32.7	2.2	0.10	493	1.35	0.03
L837328		0.71	18.2	1.26	2.91	0.07	0.21	0.02	0.009	0.17	27.6	1.8	0.06	759	1.83	0.04
L837329		1.39	30.4	1.81	2.74	0.08	0.28	0.04	0.008	0.29	35.8	2.0	0.04	1680	3.17	0.01
L837330		1.13	33.2	2.30	3.00	0.09	0.24	0.05	0.008	0.32	35.9	1.4	0.04	248	3.40	0.02
L837331		0.54	12.4	1.19	2.84	0.07	0.19	0.03	0.008	0.15	30.5	1.8	0.06	489	1.76	0.03
L837332		0.90	17.1	1.09	2.75	0.08	0.15	0.03	0.008	0.19	32.9	1.9	0.06	556	1.61	0.03
L837333		0.81	22.1	1.08	1.38	0.06	0.28	0.03	0.006	0.16	32.7	1.2	0.03	603	1.26	0.03
L837334		0.74	12.2	1.01	3.35	0.06	0.10	0.01	0.010	0.21	20.2	11.2	0.40	222	0.90	0.03
L837335		0.70	12.3	1.39	3.83	<0.05	0.03	0.01	0.006	0.19	8.5	23.9	1.22	157	0.81	0.01
L837336		3.33	11.6	1.69	4.64	0.05	0.04	0.01	0.010	0.36	11.2	37.3	1.33	125	1.79	0.02
L837337		1.47	12.4	1.23	2.55	0.05	0.05	0.02	0.011	0.29	15.6	12.3	0.41	251	0.80	0.01
L837338		3.97	25.8	1.90	6.12	0.09	0.04	0.03	0.014	0.37	37.8	30.7	1.01	1250	0.85	0.02
L837339		1.60	9.0	2.05	6.11	0.09	0.03	0.01	0.016	0.14	40.8	39.8	1.48	682	0.54	0.02
L837340		1.23	12.2	2.61	6.06	0.07	0.03	0.02	0.013	0.12	28.3	38.8	1.56	538	0.81	0.02
L837341		2.01	1.7	2.26	5.38	0.07	0.03	0.02	0.011	0.12	27.8	39.1	1.47	295	0.70	0.02
L837342		1.45	5.3	1.61	5.14	0.06	0.08	0.02	0.012	0.13	24.2	30.2	1.40	212	0.79	0.03
L837343		2.55	10.5	2.27	8.65	0.08	0.06	0.02	0.019	0.11	29.0	50.6	2.38	590	0.77	0.02
L837344		0.93	11.1	1.36	4.88	0.06	0.05	0.01	0.012	0.09	27.2	15.8	0.60	347	1.06	0.04
L837345		1.29	17.7	2.00	5.21	0.06	0.06	0.02	0.011	0.14	18.7	30.5	1.28	380	0.82	0.02
L837346		0.91	5.9	1.79	4.50	0.06	0.03	0.02	0.008	0.13	14.0	29.5	1.27	134	0.74	0.02
L837347		1.05	2.8	1.22	4.52	0.06	0.04	0.01	0.010	0.15	22.3	27.9	1.19	134	0.93	0.02
L837348		0.95	4.5	0.97	3.86	0.05	0.04	0.02	0.008	0.12	14.0	19.8	0.87	114	1.19	0.04
L837349		0.68	8.5	1.59	3.45	<0.05	0.03	0.01	0.006	0.10	8.7	17.5	0.80	137	1.32	0.02
L837350		1.24	14.7	2.09	4.48	0.05	0.04	0.01	0.008	0.16	16.3	25.5	1.11	380	1.39	0.01
L837351		1.24	20.3	1.53	5.04	0.06	0.05	0.02	0.011	0.15	24.1	30.3	1.32	830	0.92	0.01
L837352		1.43	14.6	1.22	5.29	0.05	0.04	0.01	0.011	0.13	15.1	37.3	1.46	2260	1.26	0.03
L837353		1.80	9.2	1.24	4.96	0.06	0.03	0.01	0.011	0.12	19.8	36.2	1.46	788	1.30	0.04
L837354		1.19	5.2	1.27	4.45	0.06	0.05	0.01	0.011	0.16	18.8	31.4	1.35	248	0.92	0.02
L837355		0.96	11.0	0.87	2.89	0.06	0.18	0.01	0.007	0.20	29.1	11.7	0.51	188	1.24	0.02
L837356		0.95	7.6	0.93	3.06	0.09	0.13	<0.01	0.006	0.23	33.6	6.0	0.23	320	1.67	0.04
L837357		1.70	74.3	0.93	2.29	0.09	0.17	0.02	0.005	0.24	32.1	3.5	0.12	464	1.24	0.04
L837358		1.68	69.3	1.15	4.26	0.10	0.10	0.02	0.008	0.20	33.3	16.5	0.75	854	0.95	0.03
L837359		1.59	49.7	1.32	4.97	0.08	0.04	0.01	0.008	0.17	16.6	38.8	1.64	484	0.86	0.02
L837360		0.11	1.2	0.36	0.13	0.05	<0.02	0.01	<0.005	0.02	0.7	1.0	11.95	180	0.10	0.01
L837361		1.50	35.7	1.46	4.83	0.06	0.03	0.01	0.006	0.16	9.1	37.9	1.63	231	0.69	0.02
L837362		1.33	50.3	1.52	5.30	0.07	0.06	0.01	0.009	0.20	15.2	37.1	1.60	147	0.63	0.02
L837363		4.29	49.4	1.32	3.91	0.09	0.14	0.01	0.014	0.38	30.3	18.5	0.70	100	0.93	0.03

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
L837324		0.92	8.4	290	47.4	11.7	0.001	0.01	0.39	1.3	0.3	0.6	24.7	<0.01	0.01	9.5
L837325		0.85	8.9	340	79.0	11.2	<0.001	0.06	0.70	1.6	0.3	0.6	24.2	<0.01	0.01	13.3
L837326		0.14	4.4	360	73.2	9.0	0.001	0.04	1.19	1.1	0.5	0.5	22.7	<0.01	<0.01	19.1
L837327		0.15	3.9	420	48.0	7.5	<0.001	0.06	0.99	1.4	0.6	0.6	22.0	<0.01	<0.01	21.4
L837328		0.14	3.7	420	93.6	8.5	0.001	0.05	1.26	1.3	0.4	0.6	21.9	<0.01	0.01	20.6
L837329		0.08	4.7	420	149.0	15.2	<0.001	0.24	1.80	1.0	0.4	0.5	57.1	<0.01	<0.01	21.2
L837330		0.16	3.5	430	41.8	18.5	<0.001	0.33	2.07	1.1	0.2	0.5	75.8	<0.01	<0.01	20.3
L837331		0.26	3.4	390	44.5	7.8	<0.001	0.16	1.10	1.2	0.4	0.6	27.5	<0.01	<0.01	21.0
L837332		0.16	3.2	390	37.1	10.4	<0.001	0.16	1.00	1.2	0.6	0.5	28.6	<0.01	<0.01	20.0
L837333		0.08	3.4	440	37.4	8.3	0.001	0.37	0.39	0.7	0.6	0.3	25.3	<0.01	0.01	19.4
L837334		0.50	6.2	440	25.3	10.1	<0.001	0.39	0.69	1.7	0.4	0.7	94.7	<0.01	<0.01	16.4
L837335		0.33	10.6	450	20.6	7.0	<0.001	0.20	0.44	0.9	0.2	0.5	42.7	<0.01	<0.01	8.6
L837336		0.72	10.7	500	16.6	19.6	0.001	0.78	0.73	1.4	0.3	0.9	55.2	<0.01	<0.01	10.0
L837337		0.39	8.8	550	25.0	11.0	<0.001	0.70	0.53	1.5	0.3	0.6	67.4	<0.01	0.01	14.3
L837338		0.05	14.3	470	496	21.2	0.001	0.21	0.50	2.3	0.8	0.9	150.0	<0.01	0.01	23.9
L837339		<0.05	3.8	220	21.3	8.5	<0.001	0.02	0.29	1.4	0.5	0.9	44.1	<0.01	<0.01	21.1
L837340		<0.05	3.8	190	25.7	7.7	<0.001	0.09	0.45	1.2	0.5	0.9	57.3	<0.01	<0.01	15.9
L837341		<0.05	3.7	190	22.3	8.4	<0.001	<0.01	0.35	1.1	0.4	0.9	58.5	<0.01	<0.01	15.6
L837342		0.12	5.1	210	13.7	9.0	<0.001	0.03	0.35	1.1	0.3	0.9	45.9	<0.01	0.01	14.7
L837343		<0.05	86.9	350	35.4	8.0	<0.001	0.02	1.04	4.1	0.4	1.5	78.0	<0.01	0.01	17.7
L837344		<0.05	3.6	200	61.7	7.4	<0.001	0.13	0.34	1.4	0.3	0.8	42.2	<0.01	<0.01	17.0
L837345		0.13	4.7	210	65.2	10.4	<0.001	0.17	0.30	1.1	0.2	0.6	61.5	<0.01	0.01	18.1
L837346		0.19	3.6	200	18.5	9.9	<0.001	0.11	0.20	0.9	0.2	0.5	74.4	<0.01	<0.01	15.1
L837347		0.31	6.0	230	7.2	11.3	<0.001	0.01	0.25	1.3	0.3	0.7	24.4	<0.01	0.01	22.5
L837348		0.40	4.0	210	7.1	9.6	<0.001	0.10	0.27	1.0	0.2	0.7	45.3	<0.01	<0.01	14.1
L837349		0.29	2.1	170	11.7	7.6	<0.001	0.14	0.27	0.7	<0.2	0.5	51.2	<0.01	0.01	9.0
L837350		0.25	4.2	200	39.5	13.0	<0.001	0.21	0.40	1.1	0.2	0.7	57.0	<0.01	0.01	16.9
L837351		0.11	3.7	220	40.0	11.9	<0.001	0.05	0.49	1.3	0.2	0.7	26.0	<0.01	<0.01	19.1
L837352		0.35	11.4	270	54.6	10.0	0.001	0.03	0.79	1.9	0.3	0.8	38.3	<0.01	<0.01	14.6
L837353		0.31	4.1	220	24.2	9.0	<0.001	0.13	0.70	1.6	0.2	0.9	28.1	<0.01	<0.01	18.6
L837354		0.30	3.1	210	23.6	10.1	<0.001	0.08	0.52	1.4	0.2	0.8	25.4	<0.01	0.01	19.1
L837355		0.25	3.0	200	27.5	12.5	<0.001	0.16	0.47	1.0	0.3	0.6	27.2	<0.01	<0.01	18.7
L837356		0.18	3.8	200	31.2	13.7	<0.001	0.18	0.40	1.0	0.8	0.4	28.0	<0.01	0.01	18.6
L837357		0.16	2.8	240	192.5	15.0	<0.001	0.21	0.59	0.8	0.7	0.3	18.1	<0.01	<0.01	16.9
L837358		0.09	5.4	400	297	13.9	<0.001	0.02	0.81	1.4	0.5	0.6	30.2	<0.01	0.01	18.2
L837359		0.28	7.5	380	190.0	12.2	<0.001	0.01	0.37	1.6	0.4	0.7	28.4	0.01	0.01	16.3
L837360		0.11	<0.2	180	2.6	0.9	<0.001	0.01	<0.05	0.3	0.3	<0.2	45.9	<0.01	0.02	0.2
L837361		0.28	7.5	500	122.0	10.8	<0.001	0.01	0.33	1.3	0.3	0.5	29.5	0.01	0.01	7.4
L837362		0.30	9.9	510	105.5	13.2	<0.001	0.01	0.57	2.0	0.4	0.7	36.3	0.01	0.01	11.7
L837363		0.56	7.2	490	44.7	28.7	<0.001	0.16	0.92	2.9	0.6	0.9	62.3	0.01	0.01	16.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
L837324		0.021	0.10	1.42	12	0.75	6.83	95	0.5
L837325		0.026	0.12	1.65	12	1.63	8.53	195	1.8
L837326		0.009	0.13	2.33	6	0.87	11.05	215	10.1
L837327		0.011	0.08	1.61	5	1.01	12.10	149	6.7
L837328		0.009	0.10	1.63	5	1.11	11.40	237	8.1
L837329		0.005	0.24	1.72	4	1.25	11.40	472	11.8
L837330		0.010	0.26	2.79	5	1.69	6.93	137	9.5
L837331		0.019	0.07	1.82	4	1.68	14.85	159	6.9
L837332		0.011	0.10	1.86	5	1.17	14.30	170	5.6
L837333		0.006	0.09	1.71	3	1.31	14.85	247	11.2
L837334		0.056	0.11	1.29	5	1.12	9.41	115	3.2
L837335		0.054	0.05	0.75	3	0.79	4.03	131	0.8
L837336		0.081	0.15	0.94	5	1.12	4.74	100	1.1
L837337		0.045	0.09	0.99	4	1.14	7.88	53	1.2
L837338		0.008	0.24	2.81	8	0.25	15.40	238	1.5
L837339		<0.005	0.10	3.11	6	0.26	16.35	52	1.2
L837340		<0.005	0.09	2.56	6	0.41	11.35	51	0.9
L837341		<0.005	0.08	2.60	5	0.34	11.00	47	0.8
L837342		0.012	0.08	2.02	5	0.33	9.50	40	1.3
L837343		0.005	0.08	2.76	21	0.22	13.10	74	1.9
L837344		<0.005	0.08	5.47	5	1.08	10.25	72	1.7
L837345		0.014	0.10	4.15	4	0.62	8.59	144	1.7
L837346		0.021	0.08	2.27	3	0.56	6.54	46	1.1
L837347		0.031	0.09	2.67	3	0.61	9.75	55	1.6
L837348		0.031	0.07	2.50	3	1.26	6.65	42	1.4
L837349		0.027	0.11	1.57	3	1.33	4.01	53	1.1
L837350		0.025	0.13	2.40	3	1.22	7.70	112	1.3
L837351		0.012	0.13	2.66	3	0.42	10.25	157	1.7
L837352		0.041	0.11	2.05	5	0.59	9.19	238	1.2
L837353		0.030	0.12	2.83	3	0.54	10.10	98	1.1
L837354		0.034	0.12	3.02	3	0.44	8.77	60	1.4
L837355		0.017	0.13	2.12	3	0.87	10.10	59	6.1
L837356		0.009	0.10	1.73	4	2.06	10.85	86	4.7
L837357		0.006	0.14	1.14	3	1.42	8.75	250	6.6
L837358		0.006	0.14	1.87	4	0.68	9.49	283	3.6
L837359		0.036	0.10	2.07	4	0.33	8.01	128	1.1
L837360		<0.005	<0.02	0.47	1	<0.05	0.82	12	<0.5
L837361		0.048	0.08	1.42	4	0.28	4.66	105	0.8
L837362		0.063	0.11	3.01	6	0.22	7.63	178	1.5
L837363		0.079	0.33	3.21	6	0.35	11.10	166	4.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
L837364		1.05	0.002	0.18	0.54	7.8	<0.2	<10	240	0.42	0.21	0.26	0.85	57.9	2.7	8
L837365		0.63	<0.001	0.09	1.53	2.8	<0.2	<10	770	0.50	0.18	0.17	0.59	43.1	4.3	9
L837366		1.18	0.001	0.13	2.01	2.3	<0.2	<10	570	0.59	0.17	0.21	0.61	41.7	7.6	13
L837367		0.80	<0.001	0.11	2.30	1.9	<0.2	<10	280	0.52	0.16	0.21	0.62	25.6	9.4	9
L837368		0.57	<0.001	0.06	2.09	0.6	<0.2	<10	350	0.38	0.11	0.35	0.56	19.05	9.4	12
L837369		0.74	0.001	0.13	2.02	0.6	<0.2	<10	280	0.44	0.07	0.29	0.61	18.40	7.5	6
L837370		0.73	<0.001	0.04	1.98	0.4	<0.2	<10	300	0.47	0.05	0.26	0.24	18.15	4.5	6
L837371		0.79	0.001	0.04	1.96	0.6	<0.2	<10	380	0.43	0.05	0.21	0.18	15.35	2.4	6
L837372		0.58	0.001	0.03	1.92	0.4	<0.2	<10	510	0.36	0.05	0.33	0.24	13.30	2.5	6
L837373		0.69	<0.001	0.14	1.52	0.7	<0.2	<10	480	0.36	0.10	0.18	0.57	41.1	2.5	6
L837374		0.59	0.001	0.09	1.23	0.9	<0.2	<10	620	0.42	0.09	0.24	0.86	26.1	3.1	6
L837375		0.78	<0.001	0.11	1.08	0.6	<0.2	<10	650	0.34	0.08	0.19	0.89	20.7	2.8	5
L837376		0.61	<0.001	0.07	1.61	0.9	<0.2	<10	300	0.36	0.06	0.31	0.66	17.30	5.9	43
L837377		0.93	<0.001	0.13	1.64	1.1	<0.2	<10	1440	0.34	0.10	0.18	0.23	18.40	2.9	12
L837378		0.69	<0.001	0.08	2.13	0.8	<0.2	<10	2980	0.32	0.06	0.23	0.53	17.10	2.3	7
L837379		0.77	0.001	0.10	1.36	0.6	<0.2	<10	1280	0.37	0.09	0.24	0.65	18.90	2.3	7
L837380		0.73	0.001	0.05	0.82	0.5	<0.2	<10	2720	0.34	0.09	0.27	0.46	16.15	2.5	7
L837381		0.88	0.003	0.05	1.45	0.9	<0.2	<10	1140	0.32	0.09	0.21	0.59	11.90	2.4	6
L837382		0.84	0.003	0.04	1.13	1.3	<0.2	<10	2410	0.39	0.09	0.29	0.87	14.70	2.9	6
L837383		0.74	0.001	0.06	0.95	2.5	<0.2	<10	450	0.35	0.12	0.22	0.28	14.85	2.1	6
L837384		0.85	0.002	0.09	1.71	0.6	<0.2	<10	710	0.44	0.12	0.26	0.41	16.90	2.5	6
L837385		0.85	0.002	0.09	1.78	1.0	<0.2	<10	920	0.39	0.13	0.26	0.33	21.3	2.3	7
L837386		0.81	0.001	0.06	2.08	0.7	<0.2	<10	860	0.41	0.11	0.33	0.24	21.5	2.2	5
L837387		0.65	0.002	0.38	1.05	0.4	<0.2	<10	370	0.34	0.10	0.37	2.12	58.6	1.9	5
L837388		0.81	0.003	0.60	0.45	1.2	<0.2	<10	190	0.37	0.05	0.51	4.72	54.1	1.3	7
L837389		0.71	0.003	2.09	0.69	5.1	<0.2	<10	720	0.55	0.17	0.19	1.71	62.9	3.1	5
L837390		1.17	0.008	0.15	0.93	24.9	<0.2	<10	270	0.37	0.13	8.06	1.24	40.5	4.4	7
L837391		0.87	0.005	0.20	1.61	1.0	<0.2	<10	360	0.51	0.22	0.15	4.02	75.7	4.2	6
L837392		1.02	0.002	0.10	1.49	1.6	<0.2	<10	280	0.33	0.14	0.36	1.59	42.7	3.9	7
L837393		0.99	0.002	0.13	0.88	4.8	<0.2	<10	490	0.38	0.22	0.36	1.68	40.3	3.9	6
L837394		0.81	0.003	0.10	0.63	5.1	<0.2	<10	350	0.40	0.20	0.55	0.22	43.5	4.2	7
L837395		0.80	0.004	0.08	1.29	7.3	<0.2	<10	390	0.34	0.14	0.35	0.74	19.15	5.3	8
L837396		0.29	0.002	0.04	1.13	1.7	<0.2	<10	240	0.30	0.22	0.36	0.03	19.55	5.0	8
L837397		0.35	0.002	0.04	0.61	1.4	<0.2	<10	220	0.28	0.14	0.30	0.02	23.4	1.9	7
L837398		0.40	0.002	0.13	0.65	1.2	<0.2	<10	410	0.39	0.18	0.60	0.55	47.1	2.3	8
L837399		0.67	0.002	0.24	0.48	1.2	<0.2	<10	430	0.43	0.35	0.98	0.96	67.6	1.3	7
L837400		0.53	<0.001	0.13	0.03	2	<0.2	<10	10	0.05	0.03	20.6	0.05	1.52	0.6	<1
L837401		0.57	0.001	0.56	0.42	1.3	<0.2	<10	240	0.52	0.56	0.48	0.61	75.3	2.2	7
L837402		0.89	0.002	0.29	0.37	1.0	<0.2	<10	380	0.42	0.24	0.24	1.64	65.9	1.2	5
L837403		0.71	0.004	0.24	0.89	4.8	<0.2	<10	280	0.51	0.30	5.12	1.25	58.5	2.5	6

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
L837364		0.86	34.5	1.24	3.05	0.10	0.19	0.01	0.010	0.21	33.0	4.5	0.13	131	1.72	0.06
L837365		0.85	23.5	1.77	4.79	0.08	0.02	0.01	0.010	0.19	24.3	25.1	0.92	412	0.94	0.03
L837366		1.16	16.7	2.16	5.86	0.08	0.07	0.01	0.016	0.15	22.5	41.6	1.37	534	1.82	0.05
L837367		1.00	15.7	2.44	6.25	0.09	0.05	0.01	0.011	0.10	16.0	57.4	1.92	529	1.30	0.03
L837368		0.72	12.4	2.42	5.56	0.08	0.04	0.01	0.008	0.14	11.7	40.5	1.50	499	1.12	0.02
L837369		0.75	20.4	1.78	5.38	0.07	0.03	<0.01	0.007	0.11	10.8	50.7	1.71	1370	1.59	0.03
L837370		0.78	5.7	1.86	5.49	0.07	0.04	0.01	0.007	0.11	10.6	41.5	1.53	710	1.03	0.05
L837371		0.83	5.5	1.90	5.55	0.07	0.03	<0.01	0.007	0.10	9.2	42.2	1.55	352	0.90	0.04
L837372		0.76	2.6	2.03	4.90	0.07	0.02	<0.01	0.006	0.12	7.0	39.9	1.44	282	0.87	0.03
L837373		0.87	10.0	1.63	4.67	0.08	0.05	0.01	0.008	0.10	21.2	37.4	1.25	404	0.94	0.02
L837374		0.74	4.7	1.14	3.79	0.06	0.04	<0.01	0.007	0.11	15.6	31.0	0.91	265	0.88	0.03
L837375		0.66	7.2	1.15	3.33	0.05	0.04	0.01	0.005	0.08	11.1	23.1	0.79	346	1.10	0.03
L837376		0.49	8.1	1.96	5.08	0.07	0.03	0.01	0.007	0.07	8.6	31.1	1.18	322	1.03	0.03
L837377		0.68	8.3	2.15	4.90	0.07	0.04	<0.01	0.007	0.11	10.8	30.3	1.21	211	1.12	0.03
L837378		0.85	10.1	2.69	5.41	0.08	0.05	0.01	0.006	0.14	10.6	40.6	1.63	154	0.92	0.02
L837379		0.74	17.9	1.32	4.04	0.06	0.05	0.01	0.007	0.12	11.6	30.1	1.07	155	1.10	0.03
L837380		0.57	6.4	0.88	3.07	0.06	0.05	0.01	0.005	0.11	9.7	11.6	0.46	220	1.16	0.05
L837381		0.78	3.9	2.00	4.08	0.06	0.03	<0.01	0.005	0.15	7.4	22.5	1.10	156	1.00	0.02
L837382		0.83	5.3	1.35	3.62	0.06	0.04	0.01	0.005	0.18	8.4	14.9	0.70	141	0.93	0.03
L837383		0.80	4.7	1.33	3.26	0.06	0.03	0.01	0.006	0.15	9.0	12.9	0.59	116	0.88	0.03
L837384		1.27	4.6	1.08	4.57	0.07	0.03	0.01	0.007	0.13	10.2	43.1	1.46	218	1.04	0.04
L837385		1.44	4.7	1.35	4.81	0.07	0.04	0.01	0.009	0.12	12.8	48.9	1.52	152	1.04	0.04
L837386		1.45	4.1	1.73	5.43	0.08	0.04	<0.01	0.008	0.17	13.3	49.8	1.71	169	0.78	0.03
L837387		1.43	57.3	1.02	3.52	0.09	0.15	0.03	0.008	0.20	34.9	20.6	0.77	712	0.90	0.03
L837388		1.10	77.4	0.78	2.08	0.09	0.16	0.01	<0.005	0.24	32.1	3.8	0.13	482	1.32	0.04
L837389		2.01	254	1.24	2.61	0.10	0.14	0.02	0.010	0.25	35.0	7.2	0.24	737	1.01	0.02
L837390		2.46	16.5	1.49	2.86	0.07	0.05	0.08	0.017	0.22	21.8	17.2	4.53	425	2.28	0.02
L837391		2.39	16.3	1.49	4.55	0.11	0.04	<0.01	0.010	0.19	38.9	37.8	1.44	687	1.11	0.02
L837392		1.33	12.2	1.39	3.98	0.09	0.03	0.03	0.012	0.17	23.9	27.0	1.23	221	0.83	0.02
L837393		2.81	12.6	1.30	2.73	0.07	0.17	0.02	0.012	0.30	22.1	17.8	0.61	77	1.33	0.02
L837394		1.35	9.7	1.04	2.68	0.07	0.14	0.02	0.012	0.25	24.0	9.1	0.33	126	1.47	0.04
L837395		1.43	15.2	1.37	3.61	0.05	0.04	0.02	0.009	0.25	10.2	17.2	1.13	263	1.22	0.02
L837396		0.89	9.4	1.27	2.89	<0.05	0.03	0.02	0.008	0.24	11.2	11.4	0.84	118	1.15	0.02
L837397		0.82	5.0	0.67	2.14	0.05	0.04	0.02	0.005	0.19	14.0	7.7	0.36	98	1.42	0.02
L837398		0.88	10.3	0.85	2.76	0.07	0.06	0.02	0.009	0.23	27.2	10.2	0.37	262	1.42	0.02
L837399		1.15	7.7	0.70	2.11	0.10	0.06	0.02	0.008	0.25	38.1	6.5	0.19	451	1.04	0.02
L837400		0.09	1.6	0.38	0.11	<0.05	<0.02	0.01	0.007	0.01	0.8	1.0	12.00	195	0.07	0.01
L837401		0.87	36.6	0.58	1.67	0.09	0.09	0.01	0.007	0.28	41.2	4.1	0.10	286	1.15	0.02
L837402		0.89	19.1	0.49	1.63	0.07	0.05	0.01	0.007	0.25	37.2	2.6	0.09	313	1.11	0.03
L837403		1.71	15.5	0.95	2.79	0.08	0.11	0.02	0.014	0.38	31.9	12.9	1.00	386	1.12	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
L837364		0.29	3.0	490	54.9	11.2	<0.001	0.15	0.69	1.9	0.6	0.7	61.5	0.01	0.02	16.9
L837365		0.65	7.5	250	37.1	12.8	<0.001	0.02	0.34	1.6	0.5	0.7	23.3	0.01	0.01	14.6
L837366		0.50	10.7	240	46.2	8.8	<0.001	0.03	0.35	2.0	0.5	0.8	22.1	0.01	0.02	16.7
L837367		0.25	14.9	220	23.3	6.0	<0.001	0.02	0.28	1.5	0.4	0.7	24.4	<0.01	0.01	18.4
L837368		0.27	18.3	320	15.0	8.4	<0.001	0.01	0.30	1.7	0.4	0.5	36.3	0.01	0.01	9.2
L837369		0.22	7.9	220	20.2	6.4	<0.001	0.01	0.29	1.1	0.3	0.6	29.2	0.01	0.01	12.4
L837370		0.26	4.1	200	8.4	6.8	<0.001	0.01	0.24	1.3	0.3	0.7	34.2	0.01	0.01	13.5
L837371		0.24	4.1	210	6.9	6.2	<0.001	0.01	0.21	1.1	0.3	0.6	23.4	<0.01	<0.01	14.7
L837372		0.13	5.2	180	7.9	8.0	<0.001	0.01	0.20	1.2	<0.2	0.5	36.2	<0.01	<0.01	8.3
L837373		0.10	4.1	190	25.9	6.1	<0.001	0.05	0.39	1.2	0.2	0.5	16.2	<0.01	<0.01	15.6
L837374		0.19	4.4	200	10.0	7.8	<0.001	0.10	0.27	1.2	0.2	0.6	26.3	<0.01	<0.01	11.8
L837375		0.19	4.1	190	19.8	5.9	<0.001	0.05	0.24	1.0	0.2	0.5	21.3	<0.01	<0.01	9.5
L837376		0.09	13.0	320	8.9	5.2	<0.001	0.03	0.27	1.8	0.2	0.5	40.0	<0.01	<0.01	7.7
L837377		0.24	4.5	210	12.2	8.5	<0.001	0.24	0.29	1.2	0.3	0.6	52.8	0.01	0.01	11.7
L837378		0.18	5.4	210	7.4	10.4	<0.001	0.07	0.23	1.0	0.3	0.5	52.3	0.01	0.01	10.8
L837379		0.37	5.0	220	15.7	8.0	<0.001	0.03	0.29	1.1	0.3	0.6	24.9	0.01	0.01	12.7
L837380		0.48	2.4	200	12.5	7.4	<0.001	0.07	0.32	1.0	0.3	0.6	49.0	0.01	0.01	9.3
L837381		0.22	3.0	200	7.1	10.4	<0.001	0.23	0.23	0.8	0.2	0.5	40.6	0.01	<0.01	8.7
L837382		0.33	3.6	200	10.1	11.7	<0.001	0.13	0.32	0.9	0.2	0.6	68.7	0.01	<0.01	8.5
L837383		0.68	2.8	190	10.3	9.2	<0.001	0.23	0.38	1.0	0.2	0.6	46.3	0.01	0.01	7.5
L837384		0.37	3.6	230	14.1	8.1	<0.001	0.08	0.30	1.3	0.3	0.8	28.5	0.01	0.01	12.4
L837385		0.36	3.3	240	12.9	7.8	<0.001	0.09	0.27	1.4	0.3	0.8	21.7	0.01	0.01	17.5
L837386		0.27	4.0	220	14.9	10.6	<0.001	0.12	0.26	1.3	0.3	0.6	42.6	0.01	<0.01	14.0
L837387		0.08	3.3	210	80.0	11.4	<0.001	0.04	0.55	1.1	0.5	0.5	34.5	<0.01	<0.01	17.0
L837388		0.07	2.8	170	99.3	13.4	<0.001	0.16	0.09	0.7	0.5	0.3	47.5	<0.01	<0.01	16.9
L837389		<0.05	3.8	310	763	15.0	<0.001	0.09	0.33	1.0	0.7	0.3	19.5	<0.01	0.02	19.3
L837390		0.09	7.7	360	24.1	12.7	0.001	0.43	0.77	2.6	0.7	0.4	128.0	<0.01	0.02	13.0
L837391		<0.05	7.9	370	35.5	12.1	<0.001	0.01	0.29	1.8	0.5	0.4	13.8	<0.01	<0.01	21.3
L837392		0.33	7.7	470	19.2	9.0	<0.001	0.02	0.44	1.5	0.2	0.6	31.1	<0.01	<0.01	11.4
L837393		0.63	8.6	530	28.7	19.2	<0.001	0.39	0.73	1.4	0.2	0.6	40.9	<0.01	<0.01	14.0
L837394		0.60	6.1	520	19.9	13.2	<0.001	0.41	0.59	1.5	0.2	0.7	42.5	<0.01	<0.01	13.4
L837395		0.38	12.8	510	32.1	14.4	<0.001	0.20	0.79	1.2	<0.2	0.6	31.9	<0.01	0.01	8.7
L837396		0.47	10.7	400	15.1	11.5	<0.001	0.35	0.47	0.9	<0.2	0.5	39.7	<0.01	0.01	7.1
L837397		0.71	2.7	190	12.8	9.8	<0.001	0.07	0.40	0.6	<0.2	0.6	37.9	<0.01	<0.01	9.6
L837398		0.40	3.6	200	19.4	11.9	<0.001	0.10	0.50	0.8	0.3	0.6	57.7	<0.01	<0.01	16.1
L837399		0.17	2.8	200	76.4	11.5	<0.001	0.10	0.61	0.7	0.6	0.4	73.3	<0.01	0.01	20.4
L837400		0.08	1.6	260	1.7	0.6	<0.001	0.01	0.07	0.2	<0.2	<0.2	49.1	<0.01	0.01	<0.2
L837401		0.11	3.4	290	134.0	12.4	<0.001	0.04	0.50	0.4	0.4	0.3	26.0	<0.01	<0.01	20.3
L837402		0.13	3.1	240	42.4	11.4	<0.001	0.02	0.39	0.5	0.2	0.4	14.5	<0.01	<0.01	18.8
L837403		0.25	6.5	1030	82.9	19.6	0.001	0.12	0.80	2.4	0.6	0.7	481	<0.01	<0.01	18.8

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
L837364		0.031	0.14	4.81	7	0.30	12.20	136	7.2
L837365		0.020	0.13	1.75	9	0.58	8.67	144	0.6
L837366		0.034	0.16	2.07	9	2.13	9.71	107	2.6
L837367		0.018	0.11	1.66	5	1.00	7.87	113	1.4
L837368		0.046	0.09	0.77	11	1.03	5.95	107	1.1
L837369		0.022	0.12	0.51	6	0.84	5.56	81	0.7
L837370		0.022	0.07	1.14	5	0.79	5.56	65	1.5
L837371		0.023	0.06	1.15	4	0.66	5.27	68	1.0
L837372		0.012	0.09	0.91	4	0.97	3.97	64	0.8
L837373		0.006	0.08	1.96	4	0.74	7.80	100	1.8
L837374		0.013	0.09	1.36	3	0.67	6.28	86	1.1
L837375		0.014	0.09	1.79	3	0.87	5.42	92	1.0
L837376		0.009	0.05	1.50	11	1.13	4.96	84	0.8
L837377		0.024	0.08	1.68	6	0.95	4.89	62	1.2
L837378		0.022	0.07	1.05	5	0.62	5.35	78	1.6
L837379		0.029	0.06	1.52	3	0.98	6.49	86	1.5
L837380		0.030	0.07	1.43	3	1.26	4.49	69	1.3
L837381		0.025	0.09	1.23	2	0.85	4.14	69	1.2
L837382		0.028	0.10	1.14	3	0.79	4.49	78	1.0
L837383		0.049	0.09	1.12	3	0.79	3.27	46	0.8
L837384		0.036	0.08	1.59	2	0.46	6.26	65	0.9
L837385		0.034	0.08	2.29	3	0.75	6.74	65	1.1
L837386		0.027	0.09	1.75	4	0.53	6.48	69	0.9
L837387		0.005	0.08	1.38	3	0.76	11.20	247	6.0
L837388		<0.005	0.09	1.69	3	1.71	8.67	273	6.1
L837389		<0.005	0.12	3.16	3	0.50	8.62	563	5.5
L837390		<0.005	0.23	1.25	8	0.26	10.15	135	1.7
L837391		<0.005	0.11	1.47	4	0.50	12.65	263	1.1
L837392		0.038	0.08	1.14	5	0.54	8.98	130	0.8
L837393		0.058	0.22	1.50	5	0.50	9.32	111	5.6
L837394		0.050	0.17	1.44	5	1.14	9.73	59	5.1
L837395		0.060	0.33	0.68	4	0.87	5.51	114	1.0
L837396		0.058	0.14	0.89	4	1.34	3.89	53	0.7
L837397		0.029	0.10	1.76	1	1.78	3.89	27	1.0
L837398		0.014	0.13	1.41	2	2.43	8.73	69	1.6
L837399		<0.005	0.11	1.43	1	1.81	14.85	74	1.9
L837400		<0.005	<0.02	0.52	1	0.08	1.04	13	<0.5
L837401		<0.005	0.10	1.49	1	1.02	13.05	168	2.8
L837402		<0.005	0.10	1.32	1	1.00	9.87	152	1.8
L837403		0.011	0.19	2.37	5	0.86	19.15	127	3.7



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
L837404		0.93	0.001	0.23	1.06	0.9	<0.2	<10	360	0.54	0.41	0.69	0.16	42.3	1.6	6
L837405		1.23	0.003	0.27	0.72	0.8	<0.2	<10	200	0.38	0.59	0.61	0.20	26.8	1.2	10
L837406		1.34	0.003	0.10	1.43	2.1	<0.2	<10	1330	0.40	0.14	0.24	0.80	29.7	3.7	7
L837407		1.22	0.003	0.11	1.55	1.3	<0.2	<10	880	0.34	0.15	0.19	0.56	17.20	2.4	7
L837408		0.97	0.002	0.11	1.71	1.8	<0.2	<10	4270	0.50	0.19	0.34	1.10	25.3	2.5	6
L837409		0.34	0.003	0.09	1.78	1.0	<0.2	<10	2180	0.31	0.09	0.27	0.83	20.3	1.9	6
L837410		0.36	0.002	0.10	1.40	0.9	<0.2	<10	2950	0.36	0.10	0.29	0.93	21.9	2.3	5
L837411		0.52	0.002	0.10	1.10	1.0	<0.2	<10	3150	0.43	0.13	0.27	1.09	23.1	2.2	5
L837412		0.54	0.004	0.17	1.73	3.5	<0.2	<10	4020	0.40	0.16	0.24	1.09	17.45	3.1	6
L837413		0.44	0.001	0.14	1.02	2.2	<0.2	<10	1070	0.46	0.22	0.24	1.05	22.1	2.3	6
L837414		0.44	0.001	0.15	0.56	2.8	<0.2	<10	730	0.40	0.33	0.15	0.65	36.0	1.2	6
L837415		0.59	0.002	0.09	1.35	1.4	<0.2	<10	500	0.30	0.16	0.21	0.56	16.95	1.9	6
L837416		0.59	0.002	0.11	1.68	1.1	<0.2	<10	690	0.37	0.22	0.21	0.69	19.85	1.7	6
L837417		0.61	0.003	0.08	1.22	1.4	<0.2	<10	550	0.35	0.17	0.22	0.92	23.3	2.0	9
L837418		0.74	0.002	0.13	0.37	1.0	<0.2	<10	390	0.40	0.13	0.11	0.52	53.8	1.1	6
L837419		0.72	0.002	0.19	0.43	2.5	<0.2	<10	350	0.60	0.11	0.06	1.85	71.0	5.0	6
L837420		0.65	0.001	0.18	0.81	1.7	<0.2	<10	490	0.64	0.48	0.17	2.29	81.2	5.3	6
L837421		0.75	0.001	0.10	1.42	1.2	<0.2	<10	450	0.43	0.16	0.33	1.69	67.1	3.2	7
L837422		0.69	0.001	0.13	1.68	1.0	<0.2	<10	440	0.47	0.24	0.30	1.32	69.6	3.8	6
L837423		0.88	0.001	0.10	1.57	0.6	<0.2	<10	560	0.39	0.11	0.38	0.87	17.00	4.4	7
L837424		0.73	0.001	0.08	0.94	2.1	<0.2	<10	360	0.35	0.16	0.32	0.55	21.0	4.5	10
L837425		0.68	0.001	0.04	0.46	3.0	<0.2	<10	230	0.24	0.18	0.29	0.08	22.8	2.6	17
L837426		0.97	0.001	0.04	0.61	3.1	<0.2	<10	220	0.30	0.17	0.33	0.12	18.55	3.5	9
L837427		0.62	0.001	0.05	0.71	1.7	<0.2	<10	240	0.33	0.15	0.44	0.13	19.00	3.0	10
L837428		0.67	0.001	0.12	0.64	3.8	<0.2	<10	500	0.43	0.16	0.24	0.07	24.3	2.6	11
L837429		0.46	0.001	0.05	1.02	1.1	<0.2	<10	350	0.40	0.13	0.41	0.11	19.30	3.2	8
L837430		0.52	0.001	0.05	1.29	0.8	<0.2	<10	250	0.32	0.09	0.40	0.20	16.00	5.1	8
L837431		0.55	0.002	0.02	0.06	<2	<0.2	<10	20	0.05	0.04	18.70	0.05	1.75	0.6	<1
L837432		0.41	0.001	0.02	1.10	2.1	<0.2	<10	250	0.33	0.10	0.30	0.38	23.4	2.3	8
L837433		0.68	0.001	0.03	0.75	0.7	<0.2	<10	200	0.29	0.10	2.48	0.43	30.5	2.6	6
L837434		0.61	<0.001	0.04	0.93	1.6	<0.2	<10	260	0.34	0.18	0.28	0.22	27.7	2.0	7
L837435		0.64	0.001	0.05	0.83	2.0	<0.2	<10	290	0.43	0.21	0.29	0.26	29.1	2.0	6
L837436		0.57	0.003	0.01	0.07	<2	<0.2	<10	20	0.05	0.02	18.20	0.05	1.62	0.6	<1
L837437		0.74	<0.001	0.05	0.55	4.0	<0.2	<10	260	0.55	0.26	0.58	0.15	60.2	1.7	6
L837438		0.71	<0.001	0.06	0.52	0.7	<0.2	<10	120	0.55	0.28	1.22	0.06	62.1	1.5	6
L837439		0.52	0.009	0.10	0.44	5.0	<0.2	<10	270	0.56	0.32	0.23	0.08	54.7	2.8	8
L837440		0.53	0.001	0.05	1.25	1.8	<0.2	<10	290	0.46	0.20	0.35	0.11	29.0	4.4	6
L837441		0.57	0.001	0.03	1.50	0.8	<0.2	<10	310	0.39	0.15	0.30	0.65	26.1	3.5	6
L837442		0.41	0.001	0.13	0.96	3.9	<0.2	<10	390	0.53	0.16	0.36	1.54	46.7	2.3	6
L837443		0.65	0.001	0.20	0.42	4.9	<0.2	<10	150	0.46	0.06	0.07	0.72	65.5	1.8	8



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
L837404		3.87	3.9	0.68	3.00	0.07	0.06	<0.01	0.007	0.59	23.5	19.3	0.74	132	1.14	0.01
L837405		2.42	2.7	0.61	2.11	<0.05	0.07	<0.01	0.006	0.33	15.9	13.4	0.59	121	1.58	0.01
L837406		0.72	17.6	1.60	4.04	0.06	0.05	0.01	0.009	0.12	15.6	23.5	0.88	341	0.65	0.02
L837407		0.61	14.7	1.96	4.29	0.05	0.04	0.01	0.006	0.08	9.3	30.0	1.13	240	0.95	0.03
L837408		0.69	24.8	1.35	4.29	0.06	0.07	<0.01	0.008	0.11	13.6	28.8	1.03	289	1.02	0.04
L837409		0.61	14.6	1.80	4.28	0.06	0.05	0.01	0.006	0.11	11.6	36.2	1.34	162	0.71	0.02
L837410		0.82	14.5	0.88	3.56	0.05	0.05	<0.01	0.006	0.11	12.5	26.2	0.92	140	0.73	0.04
L837411		0.55	17.1	0.92	3.47	0.05	0.08	<0.01	0.007	0.12	13.1	17.2	0.64	210	0.81	0.04
L837412		0.69	15.3	2.13	4.17	0.05	0.04	<0.01	0.007	0.14	9.4	17.2	1.00	284	0.84	0.04
L837413		1.23	13.4	1.67	3.15	0.05	0.04	<0.01	0.007	0.19	11.8	10.9	0.59	185	0.89	0.02
L837414		0.82	5.6	1.39	2.54	0.05	0.08	<0.01	0.010	0.18	20.7	5.1	0.20	146	0.77	0.04
L837415		0.75	5.3	0.97	3.69	<0.05	0.03	<0.01	0.008	0.09	9.0	34.4	1.18	183	0.87	0.03
L837416		1.10	6.2	1.29	4.33	<0.05	0.03	<0.01	0.008	0.11	11.7	38.3	1.44	135	0.88	0.03
L837417		0.99	5.7	1.11	3.48	<0.05	0.04	<0.01	0.008	0.13	13.0	26.0	1.00	134	1.35	0.01
L837418		0.70	7.1	0.49	1.60	0.06	0.27	<0.01	0.005	0.18	30.7	2.6	0.08	59	0.91	0.04
L837419		0.98	7.9	0.85	2.31	0.09	0.22	<0.01	0.006	0.25	42.3	3.5	0.09	391	1.18	0.04
L837420		2.41	11.4	1.07	3.77	0.10	0.16	0.02	0.010	0.24	46.3	12.1	0.40	719	1.14	0.03
L837421		1.77	7.1	1.13	4.73	0.08	0.07	0.01	0.012	0.26	41.4	24.6	1.19	275	1.04	0.01
L837422		1.86	12.0	1.46	5.36	0.09	0.06	<0.01	0.012	0.26	34.6	28.6	1.32	443	0.72	0.02
L837423		0.78	8.6	1.17	3.91	<0.05	0.03	<0.01	0.005	0.25	9.4	19.5	1.31	247	0.71	0.02
L837424		0.73	9.4	1.22	3.20	<0.05	0.06	<0.01	0.007	0.18	11.4	11.7	0.62	110	1.23	0.04
L837425		0.35	5.5	1.29	2.29	<0.05	0.08	<0.01	0.009	0.12	11.9	2.3	0.06	68	5.41	0.09
L837426		0.46	7.9	1.21	2.51	<0.05	0.07	<0.01	0.008	0.15	9.8	5.9	0.26	77	2.89	0.05
L837427		0.52	10.1	0.93	2.95	<0.05	0.06	<0.01	0.007	0.17	10.0	6.4	0.28	81	1.54	0.05
L837428		0.46	8.5	1.42	3.31	0.05	0.07	0.01	0.010	0.17	12.8	6.7	0.26	69	1.63	0.05
L837429		0.52	14.0	1.23	3.87	0.05	0.06	0.01	0.009	0.17	10.0	10.2	0.54	107	0.84	0.03
L837430		0.46	26.8	1.26	3.83	<0.05	0.03	0.01	0.006	0.18	8.6	15.6	0.95	117	0.83	0.03
L837431		0.12	1.8	0.36	0.21	<0.05	<0.02	0.02	0.005	0.02	0.8	1.1	11.80	164	0.07	0.01
L837432		0.45	5.9	1.03	3.28	0.05	0.03	0.01	0.006	0.17	12.9	13.0	0.77	118	1.36	0.02
L837433		0.35	4.8	0.63	2.61	0.05	0.03	<0.01	0.006	0.14	26.1	5.9	1.61	139	0.98	0.02
L837434		1.12	5.0	0.87	3.00	0.05	0.03	0.01	0.007	0.26	15.7	9.8	0.58	114	1.16	0.02
L837435		3.19	8.3	0.92	2.79	0.05	0.04	0.01	0.010	0.41	17.1	10.9	0.49	98	1.14	0.02
L837436		0.44	1.6	0.47	0.22	0.05	<0.02	0.01	<0.005	0.04	0.8	1.4	11.60	197	0.14	0.01
L837437		0.76	5.5	0.74	2.97	0.08	0.07	0.01	0.009	0.33	33.4	7.1	0.17	121	1.16	0.03
L837438		0.94	2.8	0.67	2.88	0.08	0.11	0.01	0.008	0.34	35.3	5.9	0.60	108	1.15	0.02
L837439		0.56	6.5	0.81	2.79	0.08	0.11	0.01	0.010	0.24	30.1	4.3	0.08	103	1.46	0.04
L837440		8.70	10.0	1.27	3.83	0.05	0.05	0.01	0.007	0.68	16.8	22.8	0.89	123	0.84	0.01
L837441		3.08	7.3	1.16	4.23	0.05	0.04	0.01	0.009	0.45	15.0	21.6	1.26	117	0.84	0.01
L837442		1.88	7.2	0.99	3.69	0.07	0.09	0.01	0.009	0.35	25.0	12.1	0.55	148	1.20	0.02
L837443		0.81	8.6	0.97	2.77	0.08	0.12	0.01	0.006	0.27	37.4	3.2	0.11	127	1.48	0.02



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L837404		0.49	4.8	240	48.1	34.9	0.001	0.01	0.59	1.1	0.3	0.8	56.4	<0.01	<0.01	19.6
L837405		0.47	3.0	240	53.1	18.6	<0.001	0.01	0.44	0.8	<0.2	0.6	48.9	<0.01	<0.01	13.9
L837406		0.52	7.4	210	50.7	8.8	0.001	0.02	0.38	1.2	<0.2	0.6	34.1	<0.01	<0.01	10.7
L837407		0.51	5.5	190	29.5	5.7	<0.001	0.13	0.34	0.9	<0.2	0.5	31.1	0.01	0.01	8.2
L837408		0.37	3.9	210	60.9	7.4	<0.001	0.02	0.38	1.1	<0.2	0.8	39.0	<0.01	<0.01	15.5
L837409		0.26	5.2	200	15.7	7.5	0.001	0.05	0.28	0.8	<0.2	0.5	33.6	<0.01	<0.01	12.2
L837410		0.37	4.8	210	14.1	7.8	<0.001	0.02	0.30	0.9	0.2	0.6	32.6	<0.01	<0.01	13.0
L837411		0.41	2.9	200	54.7	7.7	<0.001	0.01	0.45	1.0	<0.2	0.6	27.4	<0.01	<0.01	13.9
L837412		0.22	4.2	180	22.0	9.7	<0.001	0.15	0.33	0.7	<0.2	0.5	37.4	<0.01	<0.01	10.5
L837413		0.25	5.0	210	22.3	11.8	<0.001	0.14	0.41	0.7	<0.2	0.5	29.9	<0.01	<0.01	12.0
L837414		0.57	2.7	210	19.3	9.2	<0.001	0.18	0.47	1.0	<0.2	0.8	28.6	<0.01	<0.01	15.8
L837415		0.55	3.5	210	17.7	5.7	<0.001	0.03	0.33	0.8	<0.2	0.6	29.6	0.01	<0.01	11.2
L837416		0.41	3.6	230	19.6	6.5	<0.001	0.03	0.36	1.0	<0.2	0.7	26.5	<0.01	<0.01	14.2
L837417		0.35	4.5	250	17.3	7.6	<0.001	0.03	0.44	1.1	0.2	0.8	24.1	<0.01	<0.01	14.0
L837418		0.20	2.4	220	26.3	9.9	<0.001	0.01	0.30	0.5	0.2	0.4	12.3	<0.01	<0.01	16.0
L837419		0.14	6.0	200	27.7	13.2	<0.001	0.01	0.50	0.6	0.4	0.4	8.8	<0.01	<0.01	17.5
L837420		0.12	6.3	350	193.0	14.9	<0.001	0.01	1.13	1.3	0.5	0.6	19.5	<0.01	0.01	18.0
L837421		0.24	7.1	340	27.8	16.1	<0.001	0.01	0.74	1.8	0.4	0.8	41.2	<0.01	<0.01	18.3
L837422		0.12	7.4	450	75.3	15.3	<0.001	0.01	0.99	1.7	0.5	0.6	30.0	<0.01	<0.01	18.6
L837423		0.37	8.0	480	14.3	12.9	<0.001	0.03	0.42	1.0	<0.2	0.5	40.0	<0.01	<0.01	6.6
L837424		0.89	7.7	470	15.7	9.3	<0.001	0.24	0.53	1.4	<0.2	0.8	46.2	0.01	<0.01	7.6
L837425		1.67	4.9	420	11.9	5.6	0.002	0.68	0.48	1.5	<0.2	0.9	39.2	<0.01	0.01	6.6
L837426		1.34	5.8	480	11.5	7.8	0.001	0.65	0.54	1.3	<0.2	0.7	39.0	0.01	<0.01	6.1
L837427		1.06	4.3	450	11.9	8.5	<0.001	0.29	0.50	1.3	<0.2	0.8	57.4	0.01	<0.01	5.8
L837428		0.82	5.5	510	11.6	9.1	<0.001	0.39	0.54	1.7	<0.2	0.8	38.7	<0.01	<0.01	9.5
L837429		0.55	5.5	460	13.9	9.3	<0.001	0.11	0.43	1.3	<0.2	0.7	45.2	<0.01	<0.01	6.8
L837430		0.36	6.9	510	10.7	8.5	<0.001	0.14	0.32	1.0	<0.2	0.6	43.5	<0.01	0.01	5.4
L837431		0.06	1.2	320	1.9	1.1	<0.001	0.03	0.08	0.2	<0.2	<0.2	53.0	<0.01	<0.01	0.2
L837432		0.42	4.8	230	11.9	8.2	<0.001	0.04	0.29	0.7	<0.2	0.6	37.1	0.01	<0.01	9.1
L837433		0.41	3.6	210	9.8	6.9	<0.001	0.02	0.25	0.6	<0.2	0.5	43.7	0.01	<0.01	9.7
L837434		0.45	3.6	190	14.7	13.4	<0.001	0.03	0.29	0.7	<0.2	0.7	40.2	0.01	<0.01	9.7
L837435		0.42	3.8	190	29.0	23.7	<0.001	0.06	0.29	0.8	<0.2	0.6	32.7	0.01	<0.01	12.5
L837436		<0.05	1.6	210	1.3	2.5	<0.001	0.02	0.07	0.4	<0.2	<0.2	41.9	<0.01	<0.01	0.3
L837437		0.19	3.1	220	30.3	16.9	<0.001	0.04	0.24	1.1	0.4	0.7	32.5	<0.01	<0.01	22.3
L837438		0.16	2.9	230	27.2	20.5	<0.001	0.02	0.20	0.9	0.5	0.6	23.7	<0.01	<0.01	21.9
L837439		0.41	2.7	240	29.9	12.7	<0.001	0.04	0.31	1.1	0.3	1.0	20.0	<0.01	<0.01	18.6
L837440		0.43	8.2	250	19.3	48.8	<0.001	0.12	0.38	0.9	<0.2	0.7	44.7	<0.01	<0.01	12.7
L837441		0.33	11.9	280	14.7	27.2	<0.001	0.08	0.40	0.9	<0.2	0.7	35.9	<0.01	<0.01	12.9
L837442		0.24	4.0	220	31.5	20.6	<0.001	0.10	0.53	1.1	0.2	0.7	38.9	<0.01	<0.01	17.8
L837443		0.06	3.9	180	41.1	12.9	<0.001	0.02	0.30	0.6	0.2	0.5	6.7	<0.01	<0.01	21.2



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
L837404		0.029	0.35	1.79	2	1.28	10.50	36	1.2
L837405		0.026	0.19	1.34	2	1.44	6.28	41	1.4
L837406		0.027	0.09	1.53	9	0.48	6.79	98	2.1
L837407		0.032	0.07	1.46	5	1.01	4.19	77	1.2
L837408		0.027	0.10	2.15	4	0.92	9.19	103	2.1
L837409		0.022	0.07	1.40	3	0.65	6.22	76	1.5
L837410		0.028	0.07	1.40	3	0.51	6.83	78	1.4
L837411		0.030	0.09	2.10	3	0.90	7.23	89	2.4
L837412		0.019	0.15	1.92	3	0.89	4.77	94	1.1
L837413		0.018	0.12	1.40	3	0.68	5.34	119	1.1
L837414		0.029	0.08	1.35	3	0.93	7.11	71	2.4
L837415		0.040	0.07	1.48	2	0.78	4.88	64	0.8
L837416		0.031	0.07	2.05	3	0.62	6.31	82	0.9
L837417		0.027	0.08	2.24	3	1.21	8.04	89	1.1
L837418		0.006	0.08	1.97	3	0.82	9.06	71	9.2
L837419		<0.005	0.11	1.83	3	0.84	12.10	194	7.3
L837420		0.005	0.16	2.77	5	0.57	17.05	285	6.6
L837421		0.021	0.13	1.78	4	0.84	16.85	123	1.9
L837422		0.008	0.13	1.95	6	0.50	13.70	165	2.4
L837423		0.063	0.10	0.99	4	0.54	4.82	93	0.8
L837424		0.106	0.08	1.12	6	1.27	4.45	67	1.5
L837425		0.123	0.05	1.03	7	3.96	4.62	8	2.1
L837426		0.114	0.09	1.15	6	2.31	4.78	29	1.7
L837427		0.106	0.07	1.39	6	2.25	4.87	28	1.3
L837428		0.121	0.09	1.52	7	1.34	4.16	36	1.9
L837429		0.095	0.08	1.32	6	1.09	4.58	51	1.3
L837430		0.082	0.06	0.92	5	1.13	3.83	54	0.7
L837431		<0.005	<0.02	0.52	1	0.08	1.07	9	<0.5
L837432		0.042	0.07	1.72	2	1.56	3.67	42	0.7
L837433		0.031	0.05	1.72	2	0.81	5.04	45	0.7
L837434		0.042	0.11	1.35	2	1.23	4.06	48	0.7
L837435		0.034	0.21	1.06	2	1.52	5.14	47	0.9
L837436		<0.005	0.02	0.85	2	0.07	0.96	11	<0.5
L837437		0.014	0.11	1.53	3	1.16	12.85	21	1.9
L837438		0.013	0.13	1.57	3	1.09	18.10	22	3.1
L837439		0.026	0.08	1.83	3	2.57	14.65	11	2.7
L837440		0.052	0.49	1.57	3	1.06	6.01	67	1.2
L837441		0.046	0.28	1.28	2	0.79	6.45	89	0.8
L837442		0.023	0.34	2.38	2	0.79	9.10	107	2.3
L837443		<0.005	0.13	1.70	2	1.42	9.28	115	3.0



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
L837444		0.70	0.001	0.28	0.33	4.5	<0.2	<10	120	0.42	0.07	0.06	0.54	57.4	1.2	9
L837445		0.78	0.002	0.69	0.56	6.5	<0.2	<10	200	0.71	0.11	0.25	1.81	78.7	2.0	6
L837446		0.62	0.001	0.33	0.98	1.8	<0.2	<10	210	0.61	0.24	0.39	1.37	66.3	1.8	5
L837447		0.79	0.001	0.34	0.44	2.2	<0.2	<10	170	0.47	0.15	0.08	0.89	70.1	1.5	6
L837448		0.40	0.002	0.13	1.39	4.1	<0.2	<10	490	0.58	0.19	0.19	0.69	45.7	4.4	8
L837449		1.45	0.001	0.42	0.62	3.4	<0.2	<10	360	0.39	0.46	0.08	0.41	72.3	1.9	6
L837450		0.31	0.002	0.48	0.51	4.7	<0.2	<10	340	0.31	0.39	0.05	0.36	69.5	1.1	6
L837451		0.38	0.001	0.29	0.88	4.1	<0.2	<10	790	0.39	0.23	0.09	0.56	69.1	1.2	5
L837452		0.53	0.001	0.15	1.14	3.4	<0.2	<10	770	0.52	0.25	0.12	0.40	68.8	1.3	5
L837453		0.73	0.002	0.15	0.27	3.0	<0.2	<10	490	0.20	0.28	0.02	0.07	40.2	0.7	7
L837454		0.58	0.002	0.14	0.86	2.7	<0.2	<10	490	0.32	0.27	0.10	0.13	52.1	1.1	7
L837455		0.39	0.001	0.09	1.02	2.1	<0.2	<10	500	0.28	0.32	0.19	0.08	37.6	2.1	30
L837456		0.75	0.001	0.04	1.48	1.2	<0.2	<10	480	0.29	0.10	0.21	0.09	30.5	1.8	42
L837457		1.19	0.001	0.07	1.65	1.0	<0.2	<10	490	0.32	0.13	0.20	0.13	23.9	1.4	9
L837458		1.01	0.001	0.10	1.58	1.5	<0.2	<10	430	0.44	0.13	0.23	0.56	45.0	2.3	7
L837459		0.64	0.001	0.08	0.62	2.0	<0.2	<10	340	0.50	0.15	0.18	0.46	54.2	1.6	6
L837460		0.80	0.006	0.08	0.40	0.6	<0.2	<10	390	0.42	0.24	0.08	0.27	55.6	1.2	7
L837461		0.76	0.002	0.07	0.37	1.5	<0.2	<10	250	0.47	0.10	0.09	0.33	62.8	1.0	7
L837462		1.11	0.012	0.09	0.46	3.4	<0.2	<10	230	0.54	0.09	0.11	0.48	55.9	1.0	7
L837463		0.64	0.001	0.10	0.62	1.8	<0.2	<10	350	0.53	0.18	0.32	0.85	45.7	1.7	7
L837464		0.68	0.002	0.12	1.36	1.4	<0.2	<10	370	0.44	0.12	0.30	0.64	16.25	2.8	6
L837465		0.59	0.002	0.05	1.69	1.4	<0.2	<10	250	0.49	0.07	0.37	1.07	21.8	4.6	6
L837466		0.70	0.001	0.17	1.41	2.0	<0.2	<10	630	0.60	0.23	0.42	1.69	33.8	6.2	7
L837467		0.83	0.001	0.12	0.39	4.5	<0.2	<10	370	0.41	0.14	0.19	0.84	44.6	2.0	6
L837468		0.98	0.002	0.31	1.02	4.3	<0.2	<10	760	0.54	0.14	0.35	1.24	36.8	7.8	7
L837469		0.46	0.001	0.06	0.90	6.1	<0.2	<10	260	0.34	0.12	0.29	0.77	21.8	2.6	6
L837470		0.50	0.002	0.38	0.92	2.3	<0.2	<10	200	0.46	0.37	1.00	1.14	41.6	2.4	6
L837471		0.78	0.001	0.28	1.02	0.9	<0.2	<10	220	0.62	0.28	0.15	1.05	54.4	3.0	5
L837472		0.81	0.002	0.03	0.05	<2	<0.2	<10	20	0.06	0.02	17.90	0.07	1.37	0.6	<1
L837473		1.10	0.001	0.32	0.66	1.0	<0.2	<10	410	0.46	0.31	0.19	1.47	50.4	2.0	6
L837474		1.10	0.002	0.57	0.56	4.2	<0.2	<10	410	0.71	0.28	0.16	1.08	54.8	2.0	5
L837475		0.88	0.002	1.78	0.45	5.0	<0.2	<10	280	0.63	0.49	0.08	0.55	49.3	1.6	5
L837476		1.16	0.002	0.47	0.43	3.0	<0.2	<10	180	0.54	0.38	0.07	0.93	62.5	1.8	6
L837477		1.26	0.001	0.25	0.68	1.6	<0.2	<10	470	0.59	0.27	0.31	1.75	47.7	3.2	7
L837478		1.02	0.001	0.15	1.38	1.9	<0.2	<10	570	0.51	0.22	0.46	1.46	20.7	4.7	7
L837479		0.87	<0.001	0.16	1.07	1.6	<0.2	<10	330	0.43	0.13	0.28	1.40	28.4	3.0	5
L837480		1.04	0.001	0.75	0.44	4.9	<0.2	<10	350	0.58	0.13	0.08	1.28	70.7	5.2	6
L837481		0.97	0.001	0.32	0.34	6.2	<0.2	<10	160	0.39	0.07	0.05	1.64	61.9	3.0	7
L837482		0.96	0.001	0.24	0.62	1.4	<0.2	<10	430	0.50	0.23	0.42	2.10	43.1	1.4	6
L837483		0.90	0.001	0.25	0.50	1.3	<0.2	<10	240	0.45	0.16	0.18	0.84	43.6	2.7	7

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



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
L837444		0.63	20.2	0.92	2.47	0.08	0.08	0.01	0.009	0.23	32.4	2.3	0.07	90	1.78	0.01
L837445		0.73	55.8	1.02	2.65	0.09	0.09	0.02	0.010	0.28	46.0	4.7	0.17	616	1.65	0.02
L837446		0.58	5.9	1.12	4.06	0.08	0.10	0.02	0.007	0.29	38.5	20.5	0.67	811	1.63	<0.01
L837447		0.59	20.9	0.66	2.35	0.09	0.08	0.01	0.005	0.23	41.2	4.5	0.17	444	1.27	0.02
L837448		0.93	16.1	1.73	4.75	0.06	0.02	0.01	0.012	0.23	25.3	19.1	0.76	367	0.74	0.02
L837449		0.95	29.9	1.03	2.12	0.10	0.15	0.01	0.009	0.21	42.1	6.4	0.17	151	0.76	0.03
L837450		0.68	23.3	1.12	1.75	0.08	0.26	0.01	0.007	0.18	39.9	4.4	0.09	99	1.47	0.04
L837451		1.54	22.5	1.52	3.74	0.09	0.15	0.01	0.014	0.23	38.5	9.7	0.30	89	1.21	0.03
L837452		1.93	22.0	1.54	4.92	0.08	0.11	0.01	0.017	0.27	40.9	15.7	0.47	95	0.76	0.03
L837453		0.50	15.2	1.23	2.30	0.05	0.15	0.01	0.016	0.10	29.2	1.5	0.03	38	1.41	0.07
L837454		0.78	14.3	1.57	4.44	0.08	0.14	0.01	0.018	0.13	29.6	10.7	0.45	77	1.31	0.05
L837455		0.54	7.7	1.20	3.72	0.07	0.05	0.01	0.009	0.11	20.3	13.8	0.65	130	1.05	0.02
L837456		0.59	5.1	1.35	4.74	0.06	0.04	<0.01	0.009	0.12	16.5	28.5	1.29	158	1.40	0.02
L837457		0.70	6.3	1.87	4.68	0.06	0.03	<0.01	0.006	0.17	12.8	27.5	1.41	155	0.91	0.01
L837458		1.18	9.1	1.79	4.69	0.07	0.07	0.01	0.011	0.26	24.7	23.0	1.17	201	0.93	0.01
L837459		0.69	9.2	0.76	2.49	0.06	0.25	<0.01	0.008	0.20	30.1	6.2	0.22	95	0.95	0.04
L837460		0.72	6.0	0.46	1.77	0.08	0.20	<0.01	<0.005	0.24	31.9	2.5	0.04	64	1.01	0.05
L837461		0.79	7.2	0.46	1.94	0.08	0.18	<0.01	<0.005	0.24	37.8	2.2	0.05	68	1.03	0.04
L837462		0.77	5.6	0.91	2.52	0.09	0.15	<0.01	<0.005	0.28	33.8	2.8	0.07	66	1.29	0.04
L837463		0.79	8.8	0.85	2.87	0.07	0.19	0.01	0.009	0.21	26.5	4.8	0.15	75	0.98	0.04
L837464		0.93	8.3	0.95	4.01	0.05	0.03	0.01	0.006	0.20	9.8	26.1	1.11	119	0.85	0.02
L837465		0.94	7.8	1.21	4.62	0.06	0.03	0.01	0.008	0.15	12.9	35.2	1.47	120	0.64	0.02
L837466		0.79	12.7	1.33	4.94	0.06	0.06	0.01	0.014	0.21	19.7	20.6	1.02	123	0.77	0.02
L837467		0.35	8.3	0.81	1.75	0.07	0.32	0.01	0.008	0.15	25.2	1.5	0.05	54	1.22	0.04
L837468		0.60	16.9	1.27	3.54	0.07	0.11	0.01	0.010	0.21	21.2	9.4	0.56	183	1.15	0.03
L837469		0.37	5.1	0.80	2.62	<0.05	0.04	0.01	0.005	0.16	14.3	8.3	0.56	97	1.09	0.02
L837470		0.63	16.6	0.97	3.19	0.06	0.05	0.01	0.010	0.20	25.1	9.1	0.97	596	1.45	0.02
L837471		2.77	30.7	1.10	3.60	0.07	0.05	0.01	0.016	0.32	33.5	12.3	0.63	512	0.79	<0.01
L837472		0.14	1.0	0.39	0.16	<0.05	<0.02	0.01	<0.005	0.02	0.7	1.0	11.35	179	0.08	0.01
L837473		0.81	32.1	0.68	2.63	0.06	0.05	0.01	0.009	0.30	29.1	4.7	0.22	304	0.84	0.02
L837474		0.96	69.6	0.74	2.42	0.07	0.06	0.01	0.008	0.28	32.8	2.9	0.13	267	0.85	0.04
L837475		0.71	97.5	0.76	1.91	0.06	0.06	0.02	0.011	0.23	31.5	2.5	0.11	249	1.43	0.03
L837476		0.69	84.0	0.66	2.01	0.07	0.09	0.01	0.006	0.28	39.1	2.1	0.08	303	1.13	0.03
L837477		0.67	20.3	0.69	3.01	0.07	0.07	<0.01	0.011	0.29	28.9	6.1	0.25	159	0.94	0.03
L837478		8.05	13.4	1.13	4.34	0.05	0.05	<0.01	0.009	0.70	12.5	18.1	1.00	164	0.82	0.02
L837479		4.29	23.2	0.92	3.31	0.05	0.05	<0.01	0.007	0.43	18.2	15.7	0.80	170	0.93	0.01
L837480		0.66	54.9	0.91	2.40	0.07	0.12	0.01	0.008	0.30	39.3	2.2	0.07	596	1.74	0.03
L837481		0.55	35.5	0.83	2.21	0.08	0.11	0.01	0.008	0.24	38.4	2.1	0.07	311	1.77	0.02
L837482		1.30	23.5	0.60	2.40	0.06	0.07	0.01	0.008	0.36	28.6	6.3	0.26	175	1.15	0.01
L837483		0.60	26.8	0.65	2.45	0.05	0.05	0.01	0.009	0.26	28.5	3.4	0.13	155	1.10	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
L837444		0.05	3.1	160	100.5	10.7	<0.001	0.02	0.33	0.6	0.3	0.5	5.0	<0.01	<0.01	20.5
L837445		<0.05	4.7	210	250	15.1	<0.001	0.03	0.46	0.6	0.6	0.4	24.1	<0.01	0.01	23.2
L837446		<0.05	3.5	190	306	16.8	<0.001	0.04	0.38	0.7	0.2	0.4	38.7	<0.01	<0.01	23.2
L837447		<0.05	3.0	180	100.5	14.4	<0.001	0.02	0.43	0.5	0.2	0.3	7.1	<0.01	<0.01	22.6
L837448		1.20	7.1	260	80.5	15.2	<0.001	0.03	0.39	1.5	0.2	0.7	27.9	<0.01	<0.01	13.3
L837449		0.32	4.0	220	425	12.4	<0.001	0.11	0.36	0.7	0.5	0.3	21.9	<0.01	0.02	18.2
L837450		0.16	3.1	200	358	8.0	<0.001	0.14	0.27	0.6	0.4	0.3	20.7	<0.01	0.01	18.8
L837451		0.11	3.2	210	50.1	15.9	<0.001	0.09	0.43	1.4	0.4	0.7	40.4	<0.01	<0.01	21.9
L837452		0.23	3.1	240	36.0	19.8	<0.001	0.09	0.51	2.3	0.2	1.1	67.0	<0.01	<0.01	25.6
L837453		0.39	2.1	150	31.3	5.7	<0.001	0.22	0.30	1.2	<0.2	1.2	33.3	<0.01	0.01	19.8
L837454		0.47	2.8	170	33.2	9.5	<0.001	0.23	0.48	2.0	<0.2	1.4	45.5	0.01	<0.01	18.0
L837455		0.41	12.4	180	28.0	7.7	<0.001	0.07	0.41	1.3	0.3	0.8	44.1	<0.01	<0.01	11.1
L837456		0.30	12.6	160	20.1	8.0	<0.001	0.03	0.33	1.4	<0.2	0.7	31.2	<0.01	<0.01	11.9
L837457		0.25	5.1	170	22.4	11.0	<0.001	0.19	0.29	1.0	<0.2	0.6	38.0	<0.01	0.01	9.8
L837458		0.16	7.3	220	58.4	16.1	<0.001	0.12	0.43	1.5	0.4	0.7	29.7	<0.01	<0.01	16.0
L837459		0.16	3.3	200	28.2	12.2	<0.001	0.02	0.27	1.0	0.4	0.6	23.4	<0.01	<0.01	18.2
L837460		0.14	1.9	190	24.5	13.8	<0.001	0.02	0.13	0.6	0.2	0.4	11.2	<0.01	<0.01	18.8
L837461		0.10	2.1	190	27.8	14.9	<0.001	0.02	0.20	0.6	0.4	0.4	14.4	<0.01	<0.01	19.4
L837462		0.10	2.7	180	26.6	16.2	<0.001	0.04	0.32	0.7	0.2	0.5	15.7	<0.01	<0.01	18.9
L837463		0.39	3.1	310	20.0	14.0	<0.001	0.02	0.38	1.4	0.4	0.7	34.9	<0.01	<0.01	15.4
L837464		0.39	5.2	270	9.3	12.6	<0.001	0.02	0.33	1.0	0.2	0.6	30.7	<0.01	<0.01	9.8
L837465		0.43	11.4	370	13.8	9.0	<0.001	0.02	0.39	1.4	<0.2	0.7	31.9	<0.01	<0.01	11.7
L837466		0.47	10.5	490	27.8	11.8	<0.001	0.07	0.66	2.2	0.2	0.9	43.3	0.01	<0.01	14.7
L837467		0.67	2.9	420	30.0	6.6	<0.001	0.03	0.58	1.3	0.4	0.7	18.3	<0.01	0.01	17.0
L837468		0.49	7.4	430	73.7	10.8	<0.001	0.12	0.67	1.5	0.4	0.7	48.3	<0.01	<0.01	12.4
L837469		0.44	4.4	230	17.7	7.5	<0.001	0.08	0.39	0.7	<0.2	0.5	33.3	<0.01	<0.01	9.9
L837470		0.14	4.9	200	325	9.6	<0.001	0.02	0.61	0.7	0.2	0.6	26.3	<0.01	0.01	16.7
L837471		<0.05	7.2	220	138.5	19.6	<0.001	0.01	0.38	0.9	0.4	0.6	11.3	<0.01	0.01	24.1
L837472		<0.05	1.4	270	1.5	1.1	<0.001	0.02	0.07	0.2	<0.2	<0.2	45.7	<0.01	<0.01	0.2
L837473		0.11	4.3	200	94.6	14.5	<0.001	0.02	0.57	1.0	0.2	0.6	21.6	<0.01	<0.01	20.8
L837474		0.08	3.3	250	265	14.4	<0.001	0.02	0.53	0.8	0.3	0.5	12.4	<0.01	<0.01	19.0
L837475		0.05	3.8	220	589	12.5	<0.001	0.04	0.55	0.6	0.4	0.4	8.2	<0.01	0.03	19.9
L837476		0.06	3.5	190	513	13.9	<0.001	0.02	0.32	0.5	0.3	0.4	9.5	<0.01	<0.01	20.9
L837477		0.35	6.9	350	56.5	14.0	<0.001	0.03	0.50	1.2	0.3	0.6	32.2	<0.01	<0.01	17.4
L837478		0.69	14.5	410	33.2	41.8	<0.001	0.03	0.51	1.3	<0.2	0.8	54.8	<0.01	<0.01	12.1
L837479		0.39	5.0	210	97.3	26.8	<0.001	0.03	0.48	0.9	<0.2	0.7	34.4	<0.01	<0.01	14.0
L837480		0.08	3.7	210	487	13.9	<0.001	0.02	0.62	0.7	0.4	0.5	9.8	<0.01	<0.01	21.9
L837481		0.06	3.2	160	176.5	11.4	<0.001	0.02	0.40	0.5	0.3	0.4	5.8	<0.01	<0.01	21.4
L837482		0.17	2.6	190	87.6	18.7	<0.001	0.03	0.48	1.0	0.3	0.6	30.8	<0.01	0.01	20.0
L837483		0.12	4.0	200	121.0	12.1	<0.001	0.02	0.45	0.9	0.4	0.6	18.8	<0.01	<0.01	18.0



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
L837444		<0.005	0.09	1.84	2	1.46	8.44	150	2.1
L837445		<0.005	0.16	2.88	2	0.72	14.30	285	2.7
L837446		<0.005	0.17	2.31	2	0.57	13.55	253	3.2
L837447		<0.005	0.13	1.31	1	0.73	11.40	154	2.1
L837448		0.033	0.14	1.81	11	0.28	8.72	116	0.8
L837449		0.012	0.11	1.44	5	0.45	6.61	73	6.5
L837450		0.006	0.08	1.17	3	0.96	4.60	43	11.2
L837451		0.008	0.17	3.69	3	0.62	8.47	66	4.8
L837452		0.023	0.23	5.22	4	0.52	6.86	61	3.2
L837453		0.020	0.06	2.90	4	1.55	1.87	6	5.5
L837454		0.048	0.11	3.55	5	0.81	4.17	26	4.1
L837455		0.044	0.09	2.77	3	1.06	6.77	28	1.2
L837456		0.047	0.07	1.97	4	1.24	7.47	47	0.9
L837457		0.036	0.09	1.79	3	0.64	5.28	47	0.7
L837458		0.020	0.16	3.07	3	0.58	13.20	110	1.9
L837459		0.013	0.09	1.76	3	0.81	12.90	53	7.9
L837460		0.009	0.08	1.23	3	0.89	11.30	31	6.3
L837461		0.005	0.09	1.34	3	1.02	11.05	39	6.2
L837462		0.007	0.08	1.64	3	0.98	10.25	49	4.9
L837463		0.047	0.08	1.77	4	0.98	9.47	47	6.2
L837464		0.039	0.08	1.09	3	0.70	4.95	54	1.2
L837465		0.057	0.07	1.19	4	0.40	7.76	105	1.0
L837466		0.084	0.10	1.92	6	0.39	10.45	124	1.7
L837467		0.058	0.05	2.32	4	0.50	10.55	52	12.4
L837468		0.066	0.13	2.40	6	0.60	11.40	118	3.6
L837469		0.036	0.10	1.51	2	1.24	4.17	48	1.1
L837470		0.009	0.11	4.24	2	0.61	9.08	238	1.6
L837471		0.005	0.22	2.81	2	0.42	12.00	336	1.7
L837472		<0.005	<0.02	0.77	1	0.05	0.94	12	<0.5
L837473		0.007	0.14	1.92	2	0.61	10.15	197	1.4
L837474		0.005	0.11	2.51	2	0.63	9.41	201	2.0
L837475		<0.005	0.09	3.07	1	0.95	10.70	329	2.0
L837476		<0.005	0.11	1.90	1	0.70	13.40	402	2.9
L837477		0.034	0.13	1.49	4	0.89	11.40	160	1.9
L837478		0.092	0.47	0.72	5	0.87	6.50	176	1.1
L837479		0.037	0.35	1.74	2	0.89	6.98	246	1.2
L837480		<0.005	0.27	2.71	2	1.13	12.30	308	3.4
L837481		<0.005	0.17	1.68	2	1.61	8.88	254	3.2
L837482		0.009	0.19	1.94	2	0.96	10.65	174	1.8
L837483		0.006	0.12	1.90	2	1.22	13.20	217	1.3



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
L837484		0.37	0.003	1.16	0.41	2.5	<0.2	<10	440	0.48	0.30	0.13	1.67	58.5	2.0	6
L837485		0.61	0.001	0.59	0.66	1.0	<0.2	<10	630	0.61	0.43	0.72	6.85	61.8	2.8	5
L837486		0.77	0.001	0.54	1.12	3.0	<0.2	<10	280	0.49	0.16	0.28	1.51	69.3	3.4	6
L837487		0.99	0.001	0.28	0.79	1.6	<0.2	<10	400	0.55	0.35	0.18	1.69	53.8	4.7	5
L837488		1.65	0.001	0.12	0.78	0.7	<0.2	<10	270	0.45	0.20	0.39	1.55	28.8	2.6	9
L837489		0.72	0.001	0.30	1.41	3.4	<0.2	<10	400	0.63	0.22	0.15	2.19	57.3	5.6	8
L837490		1.07	0.002	0.29	1.74	3.4	<0.2	<10	610	0.69	0.20	0.21	3.41	40.7	4.5	8
L837491		0.56	0.001	0.26	1.78	1.5	<0.2	<10	440	0.58	0.15	0.16	1.99	35.8	3.3	7
L837492		0.34	0.002	0.16	1.78	1.3	<0.2	<10	450	0.44	0.12	0.17	1.24	19.30	2.0	5
L837493		0.32	0.001	0.20	1.41	1.2	<0.2	<10	340	0.44	0.08	0.21	1.12	27.4	2.3	5
L837494		0.41	0.002	4.28	0.46	3.1	<0.2	<10	290	0.47	0.19	0.06	0.49	57.2	1.2	5
L837495		0.40	0.002	7.03	0.66	6.9	<0.2	<10	190	0.72	0.23	0.08	0.61	64.2	3.4	6
L837496		0.50	0.004	7.62	0.70	7.6	<0.2	<10	190	0.80	0.30	0.08	0.64	50.5	4.9	7
L837497		0.49	0.002	2.51	0.66	4.9	<0.2	<10	800	0.65	0.24	0.07	0.83	65.8	3.1	7
L837498		0.47	0.002	0.51	1.37	2.8	<0.2	<10	650	0.63	0.26	0.09	1.19	71.9	3.4	5
L837499		0.57	0.001	0.24	1.82	1.5	<0.2	<10	400	0.65	0.17	0.15	1.18	75.0	3.9	6
L837500		0.58	0.001	0.16	1.80	1.0	<0.2	<10	670	0.63	0.21	0.31	1.71	62.9	6.2	7

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
L837484		0.57	138.5	0.84	2.43	0.08	0.07	0.02	0.016	0.22	34.7	2.3	0.07	530	2.22	0.02
L837485		0.81	66.3	0.74	3.22	0.07	0.07	0.01	0.008	0.28	39.8	6.1	0.23	544	0.95	0.02
L837486		0.98	41.6	1.47	4.42	0.09	0.06	0.01	0.007	0.32	43.7	15.0	0.68	880	1.32	<0.01
L837487		0.70	16.2	0.95	3.25	0.07	0.08	0.01	0.009	0.27	33.7	10.3	0.43	306	0.86	0.01
L837488		0.67	6.3	0.70	2.54	0.05	0.06	0.01	0.005	0.27	18.6	10.2	0.52	156	1.37	0.01
L837489		1.37	28.5	1.77	4.77	0.08	<0.02	0.01	0.011	0.17	34.7	25.6	0.98	1070	1.21	0.01
L837490		1.02	20.2	1.83	4.81	0.07	0.03	0.01	0.011	0.12	23.6	32.8	1.41	1190	0.99	0.02
L837491		0.98	13.2	1.83	4.86	0.06	0.03	0.01	0.010	0.11	22.2	33.0	1.48	929	1.06	0.02
L837492		0.72	7.1	1.89	4.43	<0.05	0.02	0.01	0.007	0.14	11.5	33.7	1.52	379	0.69	0.01
L837493		1.13	31.8	1.78	3.87	0.05	0.03	0.01	0.006	0.22	16.6	18.7	1.08	234	0.65	0.01
L837494		0.76	152.0	0.79	1.77	0.07	0.16	0.02	0.008	0.25	35.9	2.6	0.07	361	0.87	0.03
L837495		0.94	539	1.19	2.22	0.09	0.13	0.02	0.022	0.17	37.0	7.6	0.09	1280	2.50	0.02
L837496		1.13	620	1.51	1.99	0.08	0.18	0.03	0.035	0.14	31.0	7.7	0.07	941	1.48	0.02
L837497		0.86	226	1.01	2.07	0.08	0.14	0.02	0.009	0.25	38.8	4.6	0.15	1540	1.38	0.03
L837498		1.45	103.5	1.43	3.92	0.07	0.04	0.01	0.012	0.25	45.0	21.1	0.90	756	0.95	0.02
L837499		1.55	29.3	1.55	5.07	0.10	0.05	<0.01	0.013	0.18	37.0	46.7	1.68	333	0.69	0.03
L837500		1.40	28.9	1.86	5.09	0.11	0.04	<0.01	0.010	0.20	35.9	37.2	1.55	341	0.70	0.02

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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
L837484		0.07	2.8	190	1665	9.4	<0.001	0.05	2.09	0.6	0.4	0.5	13.2	<0.01	0.03	20.0
L837485		0.08	5.3	230	304	13.0	<0.001	0.09	0.87	1.0	0.3	0.6	59.8	<0.01	<0.01	23.0
L837486		<0.05	5.5	210	447	16.4	<0.001	0.02	0.72	0.8	0.4	0.4	27.1	<0.01	<0.01	24.0
L837487		0.13	6.6	240	177.5	12.8	<0.001	0.03	0.59	1.1	0.5	0.6	27.9	<0.01	<0.01	23.3
L837488		0.38	4.3	220	50.9	12.3	<0.001	0.02	0.49	1.3	<0.2	0.6	48.0	<0.01	<0.01	13.4
L837489		0.99	10.4	260	109.5	13.5	<0.001	0.02	0.42	1.3	0.4	0.6	21.6	<0.01	0.01	16.6
L837490		0.50	8.7	230	61.0	8.5	<0.001	0.02	0.46	1.4	0.5	0.7	32.1	<0.01	0.01	13.9
L837491		0.25	7.4	210	29.7	7.1	<0.001	0.02	0.31	1.3	0.2	0.6	21.6	<0.01	<0.01	14.9
L837492		0.22	5.4	180	17.0	9.5	<0.001	0.06	0.25	0.8	<0.2	0.5	22.3	<0.01	<0.01	9.5
L837493		0.19	5.7	200	154.5	16.9	<0.001	0.05	0.38	0.8	<0.2	0.5	35.5	<0.01	<0.01	10.7
L837494		0.08	2.8	290	1015	14.5	<0.001	0.04	0.27	0.5	0.4	0.3	8.1	<0.01	0.01	17.6
L837495		0.07	4.9	380	2470	11.0	<0.001	0.02	1.19	1.1	0.5	0.3	11.5	<0.01	0.04	18.6
L837496		<0.05	6.6	340	1450	8.2	<0.001	0.01	0.80	0.9	0.7	0.3	11.2	<0.01	0.03	16.8
L837497		<0.05	5.4	260	1225	14.1	<0.001	0.02	0.74	0.8	0.4	0.3	10.5	<0.01	0.02	19.7
L837498		<0.05	6.8	290	322	14.2	<0.001	0.02	0.39	1.2	0.6	0.4	14.6	<0.01	<0.01	22.5
L837499		0.12	11.4	370	54.0	9.8	<0.001	0.01	0.33	2.1	0.4	0.5	20.0	0.01	<0.01	20.6
L837500		0.16	13.8	490	50.5	10.2	<0.001	0.11	0.36	2.1	0.4	0.5	31.3	0.01	<0.01	15.8

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



ALS Canada Ltd.
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To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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 Total # Pages: 6 (A - D)
 Plus Appendix Pages
 Finalized Date: 9- NOV- 2011
 Account: F

Project: TOP

CERTIFICATE OF ANALYSIS WH11181099

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
L837484		<0.005	0.12	1.53	2	1.10	13.60	762	2.2
L837485		<0.005	0.14	1.35	2	0.79	15.30	520	2.0
L837486		<0.005	0.17	3.13	2	0.50	13.20	421	2.2
L837487		0.008	0.13	2.41	2	0.79	13.20	304	2.2
L837488		0.031	0.11	1.84	2	0.84	8.24	182	1.4
L837489		0.021	0.18	2.05	8	0.28	11.70	212	0.7
L837490		0.023	0.15	2.32	5	0.56	10.15	188	1.4
L837491		0.014	0.11	1.86	4	1.17	10.35	160	1.1
L837492		0.022	0.08	1.34	3	0.65	5.40	102	0.7
L837493		0.017	0.11	1.03	3	0.61	6.97	158	1.1
L837494		<0.005	0.09	2.42	2	0.89	9.65	289	6.3
L837495		<0.005	0.10	8.87	3	0.97	12.00	690	5.3
L837496		<0.005	0.07	6.56	2	1.14	17.00	1090	6.4
L837497		<0.005	0.13	3.77	2	0.72	12.75	516	5.6
L837498		<0.005	0.14	3.34	3	0.52	22.6	480	1.4
L837499		0.008	0.09	1.58	4	0.38	14.75	215	1.1
L837500		0.021	0.14	1.55	5	0.53	15.05	273	0.7

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Page: Appendix 1
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Finalized Date: 9- NOV- 2011
Account: F

Project: TOP

CERTIFICATE OF ANALYSIS WH11181099

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Ca > 10% on ICP- MS As, ICP- AES results shown. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

APPENDIX IV
DRILL LOGS

PROJECT : TOP		PROPERTY : TOP		HOLE NUMBER :PDH 11-01				Pag 1 of 2		
Drill hole data	Easting : 558042	Depth : 60.96	Contractor :THORMAN DRILLING LTD.				Comment : Quartzite and quartz- mica schist with occasional trace pyrite throughout the hole.			
	Northing : 7115747	Diameter :3.5"								
	Azimuth : 34									
	Dip : -50	Drilling dates : September 3rd 2011								

From (ft)	To (ft)	From (m)	To (m)	Sample number	Lithology	Colour	Alteration		" Minerals							Assay *								Comment		
							Oxidation	other	Py	Po	As	Gn	Sp	Cp	Au	Ag	Pb	Cu	Zn	As	Bi	Sb				
0	5	0.00	1.52	L837324	QTE	BN	f- s											0.002	0.1	47.4	13.6	95	4.6	0.15	0.39	Fair to strongly oxidized quartzite with lesser, slightly foliated, quartz-mica schist .
5	10	1.52	3.05	L837325														0.002	0.18	79	30.1	195	10.2	0.21	0.7	
10	15	3.05	4.57	L837326														0.003	0.25	73.2	21.4	215	11.6	0.16	1.19	
15	20	4.57	6.10	L837327														0.001	0.21	48	15.4	149	6.1	0.22	0.99	
20	25	6.10	7.62	L837328														0.001	0.25	93.6	18.2	237	8.5	0.23	1.26	
25	30	7.62	9.14	L837329														0.002	0.27	149	30.4	472	19.1	0.18	1.8	
30	35	9.14	10.67	L837330	QTE	BN	m- s		t- w									0.003	0.28	41.8	33.2	137	25.4	0.14	2.07	Moderate to strongly oxidized quartzite and lesser, slightly foliated, silvery light green chloritic quartz-mica schist . Trace to weak pyrite occurs disseminated (cubic crystals <1mm) in schist and in few oxidized quartz veins. Weak fine granular sulphide aggregate occurs on foliation plans. Limonite is pervasive.
35	40	10.67	12.19	L837331	SCH	GN	s											0.002	0.16	44.5	12.4	159	7.7	0.1	1.1	
40	45	12.19	13.72	L837332														<0.001	0.13	37.1	17.1	170	4	0.07	1	
45	50	13.72	15.24	L837333														<0.001	0.09	37.4	22.1	247	5	0.08	0.39	
50	55	15.24	16.76	L837334	SCH	LT			t									<0.001	0.08	25.3	12.2	115	3.2	0.17	0.69	Slightly foliated, silvery light green chloritic quartz-muscovite schist. Trace pyrite occurs disseminated (cubic crystals <1mm) in schist and in few milky white quartz veins.
55	60	16.76	18.29	L837335		GN												0.002	0.05	20.6	12.3	131	1.3	0.13	0.44	
60	65	18.29	19.81	L837336														0.001	0.06	16.6	11.6	100	2.4	0.25	0.73	
65	70	19.81	21.34	L837337														<0.001	0.1	25	12.4	53	2.2	0.19	0.53	
70	75	21.34	22.86	L837338														<0.001	0.54	496	25.8	238	4.5	0.24	0.5	
75	80	22.86	24.38	L837339														0.001	0.11	21.3	9	52	0.7	0.15	0.29	
80	85	24.38	25.91	L837340														<0.001	0.08	25.7	12.2	51	1	0.13	0.45	
85	90	25.91	27.43	L837341	SCH	GN			t									<0.001	0.03	22.3	1.7	47	0.8	0.1	0.35	
90	95	27.43	28.96	L837342					t									<0.001	0.05	13.7	5.3	40	0.8	0.11	0.35	Chloritic quartz-mica schist well foliated. Trace pyrite, 1-6 cubic crystals/m, occurs throughout the interval. Lath minerals increases with depth, sulphide decreases.
95	100	28.96	30.48	L837343					t									0.001	0.11	35.4	10.5	74	3.2	0.16	1.04	
100	105	30.48	32.00	L837344														<0.001	0.13	61.7	11.1	72	2.6	0.16	0.34	
105	110	32.00	33.53	L837345					t									<0.001	0.16	65.2	17.7	144	2.9	0.1	0.3	
110	115	33.53	35.05	L837346					t									<0.001	0.07	18.5	5.9	46	1.4	0.09	0.2	
115	120	35.05	36.58	L837347					t									<0.001	0.04	7.2	2.8	55	1.5	0.04	0.25	
120	125	36.58	38.10	L837348					t									<0.001	0.05	7.1	4.5	42	1.3	0.06	0.27	
125	130	38.10	39.62	L837349					t									<0.001	0.08	11.7	8.5	53	2.6	0.07	0.27	
130	135	39.62	41.15	L837350														0.003	0.07	39.5	14.7	112	3	0.11	0.4	
135	140	41.15	42.67	L837351														<0.001	0.13	40	20.3	157	4.6	0.14	0.49	
140	145	42.67	44.20	L837352														<0.001	0.14	54.6	14.6	238	8.7	0.14	0.79	
145	150	44.20	45.72	L837353					t									0.001	0.13	24.2	9.2	98	4.9	0.17	0.7	
150	155	45.72	47.24	L837354					t									<0.001	0.1	23.6	5.2	60	2.4	0.16	0.52	
155	160	47.24	48.77	L837355														<0.001	0.17	27.5	11	59	5.1	0.18	0.47	

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

160	165	48.77	50.29	L837356															0.002	0.17	31.2	7.6	86	5	0.1	0.4		
165	170	50.29	51.82	L837357															0.001	0.67	192.5	74.3	250	2.5	0.09	0.59		
170	175	51.82	53.34	L837358															0.001	0.62	297	69.3	283	1.5	0.15	0.81		
175	180	53.34	54.86	L837359															0.006	0.26	190	49.7	128	1.3	0.09	0.37		
		BLANK		L837360															<0.001	0.01	2.6	1.2	12	<2	0.01	<0.05		
180	185	54.86	56.39	L837361															<0.001	0.31	122	35.7	105	1.1	0.05	0.33		
185	190	56.39	57.91	L837362															<0.001	0.2	105.5	50.3	178	2.8	0.11	0.57		
190	195	57.91	59.44	L837363	QTE	BN	s												<0.001	0.23	44.7	49.4	166	6.2	0.17	0.92	Strongly oxidized quartzite with limonite pseudomorph after disseminated cubic pyrite. Only few fresh pyrite crystals.	
195	200	59.44	60.96	L837364		YW													0.002	0.18	54.9	34.5	136	7.8	0.21	0.69		
EOH																												

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

150	155	45.72	47.24	L837395	SCH	LT GN WH												0.004	0.08	32.1	15.2	114	7.3	0.14	0.79	Slightly foliated, light green, silvery schist with white quartzite bands.		
155	160	47.24	48.77	L837396															0.002	0.04	15.1	9.4	53	1.7	0.22		0.47	
160	165	48.77	50.29	L837397															0.002	0.04	12.8	5	27	1.4	0.14		0.4	
165	170	50.29	51.82	L837398															0.002	0.13	19.4	10.3	69	1.2	0.18		0.5	
170	175	51.82	53.34	L837399															0.002	0.24	76.4	7.7	74	1.2	0.35		0.61	
		BLANK		L837400															<0.001	0.13	1.7	1.6	13	2	0.03		0.07	
175	180	53.34	54.86	L837401															0.001	0.56	134	36.6	168	1.3	0.56		0.5	
180	185	54.86	56.39	L837402															0.002	0.29	42.4	19.1	152	1	0.24		0.39	
185	190	56.39	57.91	L837403															0.004	0.24	82.9	15.5	127	4.8	0.3		0.8	
190	195	57.91	59.44	L837404															0.001	0.23	48.1	3.9	36	0.9	0.41		0.59	
195	200	59.44	60.96	L837405															0.003	0.27	53.1	2.7	41	0.8	0.59		0.44	
EOH																												

PROJECT : TOP		PROPERTY : TOP		HOLE NUMBER :PDH 11-03				Pag 1 of 2			
Drill hole data	Easting:558076		Depth : 60.96		Contractor:THORMAN DRILLING LTD.				Comment: Schist with two strongly oxidized intervals which contains milky quartz veins tracely mineralized.		
	Northing : 7115799		Diameter : 3.5"								
	Azimuth : 34		Drilling dates : September 4th to 5th 2011								
	Dip : -50										

From (ft)	To (ft)	From (m)	To (m)	Sample number	Lithology	Colour	Alteration		" Minerals							Assay *							Comment			
							Oxidation	other	Py	Po	As	Gn	Sp	Cp	Au	Ag	Pb	Cu	Zn	As	Bi	Sb				
0	5	0.00	1.52	L837406	SCH	LT												0.003	0.1	50.7	17.6	98	2.1	0.14	0.38	Light green, silvery , quartz-muscovite schist with fair chlorite.
5	10	1.52	3.05	L837407		GN												0.003	0.11	29.5	14.7	77	1.3	0.15	0.34	
10	15	3.05	4.57	L837408														0.002	0.11	60.9	24.8	103	1.8	0.19	0.38	
15	20	4.57	6.10	L837409														0.003	0.09	15.7	14.6	76	1	0.09	0.28	
20	25	6.10	7.62	L837410														0.002	0.1	14.1	14.5	78	0.9	0.1	0.3	
25	30	7.62	9.14	L837411														0.002	0.1	54.7	17.1	89	1	0.13	0.45	
30	35	9.14	10.67	L837412														0.004	0.17	22	15.3	94	3.5	0.16	0.33	
35	40	10.67	12.19	L837413	SCH	GN	m		t									0.001	0.14	22.3	13.4	119	2.2	0.22	0.41	Moderately oxidized quartz-mica schist with strongly oxidized, reddish quartz milky vein. Mineralization consist of trace pyrite: solitaire cubic crysts (<1mm), disseminated in vein and in schist.
40	45	12.19	13.72	L837414	Qz.VN	BN												0.001	0.15	19.3	5.6	71	2.8	0.33	0.47	
45	50	13.72	15.24	L837415	SCH	LT	t											0.002	0.09	17.7	5.3	64	1.4	0.16	0.33	Tracely oxidized, light green with silvery sheen , chloritic quartz-mica schist .
50	55	15.24	16.76	L837416		GN												0.002	0.11	19.6	6.2	82	1.1	0.22	0.36	
55	60	16.76	18.29	L837417														0.003	0.08	17.3	5.7	89	1.4	0.17	0.44	
60	65	18.29	19.81	L837418														0.002	0.13	26.3	7.1	71	1	0.13	0.3	
65	70	19.81	21.34	L837419														0.002	0.19	27.7	7.9	194	2.5	0.11	0.5	
70	75	21.34	22.86	L837420														0.001	0.18	193	11.4	285	1.7	0.48	1.13	
75	80	22.86	24.38	L837421														0.001	0.1	27.8	7.1	123	1.2	0.16	0.74	
80	85	24.38	25.91	L837422														0.001	0.13	75.3	12	165	1	0.24	0.99	
85	90	25.91	27.43	L837423														0.001	0.1	14.3	8.6	93	0.6	0.11	0.42	
90	95	27.43	28.96	L837424	SCH	GN	m		w				t?					0.001	0.08	15.7	9.4	67	2.1	0.16	0.53	
95	100	28.96	30.48	L837425	Qz.VN	BN												0.001	0.04	11.9	5.5	8	3	0.18	0.48	
100	105	30.48	32.00	L837426														0.001	0.04	11.5	7.9	29	3.1	0.17	0.54	
105	110	32.00	33.53	L837427														0.001	0.05	11.9	10.1	28	1.7	0.15	0.5	
110	115	33.53	35.05	L837428														0.001	0.12	11.6	8.5	36	3.8	0.16	0.54	
115	120	35.05	36.58	L837429														0.001	0.05	13.9	14	51	1.1	0.13	0.43	
120	125	36.58	38.10	L837430	SCH	LT												0.001	0.05	10.7	26.8	54	0.8	0.09	0.32	Tracely oxidized, light green with silvery sheen , chloritic quartz-mica schist .
		BLANK		L837431		GN												0.002	0.02	1.9	1.8	9	<2	0.04	0.08	
125	130	38.10	39.62	L837432														0.001	0.02	11.9	5.9	42	2.1	0.1	0.29	
130	135	39.62	41.15	L837433														0.001	0.03	9.8	4.8	45	0.7	0.1	0.25	
135	140	41.15	42.67	L837434														<0.001	0.04	14.7	5	48	1.6	0.18	0.29	
140	145	42.67	44.20	L837435														0.001	0.05	29	8.3	47	2	0.21	0.29	
		BLANK		L837436														0.003	0.01	1.3	1.6	11	<2	0.02	0.07	
145	150	44.20	45.72	L837437														<0.001	0.05	30.3	5.5	21	4	0.26	0.24	
150	155	45.72	47.24	L837438														<0.001	0.06	27.2	2.8	22	0.7	0.28	0.2	

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

155	160	47.24	48.77	L837439															0.009	0.1	29.9	6.5	11	5	0.32	0.31	
160	165	48.77	50.29	L837440															0.001	0.05	19.3	10	67	1.8	0.2	0.38	
165	170	50.29	51.82	L837441															0.001	0.03	14.7	7.3	89	0.8	0.15	0.4	
170	175	51.82	53.34	L837442															0.001	0.13	31.5	7.2	107	3.9	0.16	0.53	
175	180	53.34	54.86	L837443	SCH	BN	LT	m											0.001	0.2	41.1	8.6	115	4.9	0.06	0.3	Brown, light green moderately oxidized quartz-mica schist. Limonite replaces biotite and forms patches on foliation plans.
180	185	54.86	56.39	L837444		GN													0.001	0.28	100.5	20.2	150	4.5	0.07	0.33	
185	190	56.39	57.91	L837445															0.002	0.69	250	55.8	285	6.5	0.11	0.46	
190	195	57.91	59.44	L837446															0.001	0.33	306	5.9	253	1.8	0.24	0.38	
195	200	59.44	60.96	L837447															0.001	0.34	100.5	20.9	154	2.2	0.15	0.43	

EOH

PROJECT : TOP		PROPERTY : TOP		HOLE NUMBER :PDH 11-04				Pag 1 of 2	
Drill hole data	Easting:558094		Depth : 60.96		Contractor:THORMAN DRILLING LTD.				Comment : Quartz-mica schist with some milky quartz veins.
	Northing : 7115821		Diameter :3.5"						
	Azimuth : 34								
	Dip : -50		Drilling dates : September 5th 2011						

From (ft)	To (ft)	From (m)	To (m)	Sample number	Lithology	Colour	Alteration		" Minerals							Assay *							Comment			
							Oxidation	other	Py	Po	As	Gn	Sp	Cp	Au	Ag	Pb	Cu	Zn	As	Bi	Sb				
0	5	0.00	1.52	L837448	QTE	YW	s										0.002	0.13	80.5	16.1	116	4.1	0.19	0.39	Strongly oxidized, yellowish- red quartzitic phyllite with lesser (20%), well foliated and slightly waved quartz-mica schist. Mica is mostly biotite (80%). Pervasive limonite occurs on foliation plans and pseudomorph after biotite.	
5	10	1.52	3.05	L837449	SCH	RD											0.001	0.42	425	29.9	73	3.4	0.46	0.36		
10	15	3.05	4.57	L837450													0.002	0.48	358	23.3	43	4.7	0.39	0.27		
15	20	4.57	6.10	L837451													0.001	0.29	50.1	22.5	66	4.1	0.23	0.43		
20	25	6.10	7.62	L837452													0.001	0.15	36	22	61	3.4	0.25	0.51		
25	30	7.62	9.14	L837453													0.002	0.15	31.3	15.2	6	3	0.28	0.3		
30	35	9.14	10.67	L837454													0.002	0.14	33.2	14.3	26	2.7	0.27	0.48		
35	40	10.67	12.19	L837455													0.001	0.09	28	7.7	28	2.1	0.32	0.41		
40	45	12.19	13.72	L837456	SCH	GN	w										0.001	0.04	20.1	5.1	47	1.2	0.1	0.33	Weakly oxidized, well foliated and slightly waved , quartz -mica schist . Biotite is partly replaced by chlorite and limonite. Sucrosic ,oxidized quartz lenses and barren white milky quartz veins occurs occasional.	
45	50	13.72	15.24	L837457		GY											0.001	0.07	22.4	6.3	47	1	0.13	0.29		
50	55	15.24	16.76	L837458													0.001	0.1	58.4	9.1	110	1.5	0.13	0.43		
55	60	16.76	18.29	L837459													0.001	0.08	28.2	9.2	53	2	0.15	0.27		
60	65	18.29	19.81	L837460													0.006	0.08	24.5	6	31	0.6	0.24	0.13		
65	70	19.81	21.34	L837461													0.002	0.07	27.8	7.2	39	1.5	0.1	0.2		
70	75	21.34	22.86	L837462													0.012	0.09	26.6	5.6	49	3.4	0.09	0.32		
75	80	22.86	24.38	L837463													0.001	0.1	20	8.8	47	1.8	0.18	0.38		
80	85	24.38	25.91	L837464													0.002	0.12	9.3	8.3	54	1.4	0.12	0.33		
85	90	25.91	27.43	L837465													0.002	0.05	13.8	7.8	105	1.4	0.07	0.39		
90	95	27.43	28.96	L837466	QTE	RD	s										0.001	0.17	27.8	12.7	124	2	0.23	0.66		Strongly oxidized, yellowish- red quartzite with lesser , well foliated and slightly waved quartz-mica schist. Pervasive limonite occurs on foliation plans and pseudomorph after biotite.
95	100	28.96	30.48	L837467	SCH												0.001	0.12	30	8.3	52	4.5	0.14	0.58		
100	105	30.48	32.00	L837468													0.002	0.31	73.7	16.9	118	4.3	0.14	0.67		
105	110	32.00	33.53	L837469	SCH	GN	w-										0.001	0.06	17.7	5.1	48	6.1	0.12	0.39	Weak to fairly oxidized, well foliated and slightly waved , chloritic quartz -mica schist.	
110	115	33.53	35.05	L837470		BN	f										0.002	0.38	325	16.6	238	2.3	0.37	0.61		
115	120	35.05	36.58	L837471													0.001	0.28	138.5	30.7	336	0.9	0.28	0.38		
		BLANK		L837472													0.002	0.03	1.5	1	12	<2	0.02	0.07		
120	125	36.58	38.10	L837473													0.001	0.32	94.6	32.1	197	1	0.31	0.57		
125	130	38.10	39.62	L837474													0.002	0.57	265	69.6	201	4.2	0.28	0.53		
130	135	39.62	41.15	L837475	SCH	GN	f										0.002	1.78	589	97.5	329	5	0.49	0.55	Fairly oxidized mica schist with frequent barren milky quartz veins cutting foliation at 60°. Limonite is pseudomorph after occasional cubic solitaire pyrite hosted by schist. One hairline fracture contains black sulphides and granular epidote.	
135	140	41.15	42.67	L837476		BN											0.002	0.47	513	84	402	3	0.38	0.32		
140	145	42.67	44.20	L837477													0.001	0.25	56.5	20.3	160	1.6	0.27	0.5		

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

145	150	44.20	45.72	L837478	QTE	GN	w-											0.001	0.15	33.2	13.4	176	1.9	0.22	0.51	Weak to strongly oxidized, well foliated and slightly waved , chloritic quartz -mica schist .Weak granular epidote aggregate occurs on foliation plans.	
150	155	45.72	47.24	L837479	SCH	BN	s											<0.001	0.16	97.3	23.2	246	1.6	0.13	0.48		
155	160	47.24	48.77	L837480														0.001	0.75	487	54.9	308	4.9	0.13	0.62		
160	165	48.77	50.29	L837481														0.001	0.32	176.5	35.5	254	6.2	0.07	0.4		
165	170	50.29	51.82	L837482														0.001	0.24	87.6	23.5	174	1.4	0.23	0.48		
170	175	51.82	53.34	L837483														0.001	0.25	121	26.8	217	1.3	0.16	0.45		
175	180	53.34	54.86	L837484														0.003	1.16	1665	138.5	762	2.5	0.3	2.09		
180	185	54.86	56.39	L837485														0.001	0.59	304	66.3	520	1	0.43	0.87		
185	190	56.39	57.91	L837486	SCH	GN	w											0.001	0.54	447	41.6	421	3	0.16	0.72		Weak to fairly oxidized, well foliated and slightly waved chloritic quartz -mica schist .
190	195	57.91	59.44	L837487														0.001	0.28	177.5	16.2	304	1.6	0.35	0.59		
195	200	59.44	60.96	L837488														0.001	0.12	50.9	6.3	182	0.7	0.2	0.49		
EOH																											

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

PROJECT : TOP		PROPERTY : TOP		HOLE NUMBER :PDH 11-05				Pag 1 of 2		
Drill hole data	Easting: 558115	Depth : 60.96	Contractor: THORMAN DRILLING LTD.				Comment: Quartz- mica schist comprises strongly oxidized intervals with tracely mineralized quartz veins.			
	Northing : 7115840	Diameter : 3.5"								
	Azimuth : 34	Drilling dates : September 5th 2011								
	Dip : -50									

From (ft)	To (ft)	From (m)	To (m)	Sample number	Lithology	Colour	Alteration		" Minerals							Assay *							Comment		
							Oxidation	other	Py	Po	As	Gn	Sp	Cp	Au	Ag	Pb	Cu	Zn	As	Bi	Sb			
0	5	0.00	1.52	L837489	SCH	LT GN	t										0.001	0.3	109.5	28.5	212	3.4	0.22	0.42	Light green with brown tones, tracely oxidized, well foliated and slightly waved quartz-mica schist . Weak chlorite occurs within lath minerals.
5	10	1.52	3.05	L837490		BN											0.002	0.29	61	20.2	188	3.4	0.2	0.46	
10	15	3.05	4.57	L837491													0.001	0.26	29.7	13.2	160	1.5	0.15	0.31	
15	20	4.57	6.10	L837492													0.002	0.16	17	7.1	102	1.3	0.12	0.25	
20	25	6.10	7.62	L837493													0.001	0.2	154.5	31.8	158	1.2	0.08	0.38	
25	30	7.62	9.14	L837494	SCH	BN	s										0.002	4.28	1015	152	289	3.1	0.19	0.27	Strongly oxidized milky quartz veins and hairline fractures crosscuts shist foliation at 45-60°.Limonite is pervasive in fractures.
30	35	9.14	10.67	L837495	Qz.VN	RD											0.002	7.03	2470	539	690	6.9	0.23	1.19	
35	40	10.67	12.19	L837496	SCH	LT GN	t										0.004	7.62	1450	620	1090	7.6	0.3	0.8	Light green with brown tones, tracely oxidized, well foliated and slightly waved quartz-mica schist . Weak chlorite occurs within lath minerals.
40	45	12.19	13.72	L837497		BN											0.002	2.51	1225	226	516	4.9	0.24	0.74	
45	50	13.72	15.24	L837498													0.002	0.51	322	103.5	480	2.8	0.26	0.39	
50	55	15.24	16.76	L837499													0.001	0.24	54	29.3	215	1.5	0.17	0.33	
55	60	16.76	18.29	L837500													0.001	0.16	50.5	28.9	273	1	0.21	0.36	
60	65	18.29	19.81	K975901	SCH	BN	s										0.002	<0.2	24	13	148	2	<2	<2	Strongly oxidized milky quartz veins and hairline fractures crosscuts shist foliation at 45-60°.Limonite is pervasive in fractures.
65	70	19.81	21.34	K975902	Qz.VN	RD											0.002	<0.2	21	9	63	5	<2	<2	
70	75	21.34	22.86	K975903													0.002	<0.2	29	7	21	13	<2	<2	
75	80	22.86	24.38	K975904													0.003	<0.2	15	13	35	6	<2	3	
80	85	24.38	25.91	K975905	SCH	LT GN	t										0.001	<0.2	19	15	100	<2	<2	2	Light green, silky sheen , tracely oxidized, well foliated and slightly waved quartz-mica schist . Weak chlorite occurs within lath minerals.
85	90	25.91	27.43	K975906		BN											0.001	<0.2	38	11	102	<2	<2	<2	
90	95	27.43	28.96	K975907													0.002	0.2	25	9	122	2	<2	<2	
95	100	28.96	30.48	K975908													0.001	0.3	54	13	107	<2	<2	<2	
100	105	30.48	32.00	K975909													0.001	0.4	56	14	118	2	<2	<2	
105	110	32.00	33.53	K975910													0.002	<0.2	16	4	39	3	<2	2	
110	115	33.53	35.05	K975911													0.001	<0.2	26	3	31	<2	<2	<2	
		BLANK		K975912													0.002	<0.2	2	<1	12	3	<2	<2	
115	120	35.05	36.58	K975913													0.001	<0.2	26	18	71	5	<2	<2	
120	125	36.58	38.10	K975914													0.001	<0.2	22	4	30	<2	<2	<2	
125	130	38.10	39.62	K975915													0.003	<0.2	35	5	27	<2	<2	3	
130	135	39.62	41.15	K975916	SCH	BN	s			t-w							0.002	0.2	23	6	11	17	<2	<2	Strongly oxidized schist with milky quartz veins and hairline fractures .Limonite is pervasive in fractures and pseudomorph after pyrite. Minor mineralization consist of trace to weak pyrite disseminated in quartz veins and lesser in schist.
135	140	41.15	42.67	K975917	Qz.VN	RD											0.001	<0.2	24		16	5	<2	2	
140	145	42.67	44.20	K975918	SCH	LT GN	t										<0.001	<0.2	23	4	31	<2	<2	<2	Light green with silky sheen , tracely oxidized, well foliated and slightly

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

145	150	44.20	45.72	K975919		BN												0.002	<0.2	20	9	32	2	<2	<2	waved quartz-mica schist . Weak chlorite occurs within lath minerals.	
150	155	45.72	47.24	K975920														0.002	<0.2	16	14	50	3	<2	2		
155	160	47.24	48.77	K975921														0.003	<0.2	21	9	35	3	<2	<2		
160	165	48.77	50.29	K975922														0.001	<0.2	41	9	42	<2	<2	<2		
165	170	50.29	51.82	K975923	SCH	BN	m											0.002	0.2	20	3	90	4	<2	<2	Moderately oxidized schist with sucrosic quartzite lenses.	
170	175	51.82	53.34	K975924		YW												0.001	0.3	228	8	295	<2	<2	2		
175	180	53.34	54.86	K975925														0.002	0.7	258	68	229	5	<2	<2		
180	185	54.86	56.39	K975926	Qz.VN	RD	s											0.002	0.2	129	33	221	11	<2	<2	Strongly oxidized quartz vein with limonite pseudomorph after disseminated cubic pyrite.	
185	190	56.39	57.91	K975927														0.002	0.4	134	13	211	5	<2	<2		
190	195	57.91	59.44	K975928	SCH	GN	f											0.002	0.3	30	11	271	6	<2	<2	Fairly oxidized quartz -mica schist with weak chlorite.	
195	200	59.44	60.96	K975929		BN												0.001	<0.2	26	5	78	<2	<2	<2		

EOH

PROJECT : TOP		PROPERTY : TOP		HOLE NUMBER :PDH 11-06				Pag 1 of 2	
Drill hole data	Eastings:558139		Depth : 60.96		Contractor:THORMAN DRILLING LTD.				Comment : Quartz -mica schist with quartzite lenses. Barren milky quartz veins occurs occasionally.
	Northing : 7115863		Diameter : 3.5"						
	Azimuth : 34								
	Dip : -50		Drilling dates : September 6th 2011						

From (ft)	To (ft)	From (m)	To (m)	Sample number	Lithology	Colour	Alteration		" Minerals							Assay *							Comment			
							Oxidation	other	Py	Po	As	Gn	Sp	Cp	Au	Ag	Pb	Cu	Zn	As	Bi	Sb				
0	5	0.00	1.52	K975930	SCH	LT	w											0.002	<0.2	32	8	81	3	<2	<2	Weakly oxidized, light green- yellowish, well foliated and slightly waved quartz-mica schist. Mica is mostly biotite (80%). Weak limonite occurs on foliation plans and pseudomorph after biotite. Barren, white quartz milky vein occurs at 5m.
5	10	1.52	3.05	K975931		GN												0.001	<0.2	20	6	63	3	<2	<2	
10	15	3.05	4.57	K975932		YW												0.001	<0.2	10	4	55	<2	<2	<2	
15	20	4.57	6.10	K975933														0.001	<0.2	26	8	141	2	<2	<2	
20	25	6.10	7.62	K975934														0.002	<0.2	12	10	126	<2	<2	<2	
25	30	7.62	9.14	K975935	SCH	YW	s											0.002	<0.2	19	10	78	7	<2	2	Strongly oxidized quartz-mica schist. Biotite is replaced by iron oxides.
30	35	9.14	10.67	K975936		RD												0.002	0.2	28	5	42	8	<2	2	
35	40	10.67	12.19	K975937	SCH	LT	t											0.001	<0.2	15	11	90	8	<2	<2	Weakly oxidized, light green, well foliated , slightly waved, occasionally microfolded, quartz-mica schist. Trace limonite occurs on foliation plans and pseudomorph after biotite. Barren, white quartz milky vein occurs at 22m.
40	45	12.19	13.72	K975938		GN												<0.001	<0.2	15	6	69	7	<2	<2	
45	50	13.72	15.24	K975939														0.002	<0.2	12	9	79	4	<2	<2	
50	55	15.24	16.76	K975940														0.001	<0.2	12	13	108	<2	<2	2	
55	60	16.76	18.29	K975941														0.001	<0.2	13	4	41	3	<2	<2	
60	65	18.29	19.81	K975942														0.001	<0.2	40	10	45	3	<2	<2	
65	70	19.81	21.34	K975943														<0.001	<0.2	23	7	77	5	<2	<2	
70	75	21.34	22.86	K975944														0.001	<0.2	19	7	65	9	<2	<2	
75	80	22.86	24.38	K975945														0.002	0.3	18	6	137	4	<2	<2	
80	85	24.38	25.91	K975946														0.001	0.2	21	8	101	3	<2	<2	
85	90	25.91	27.43	K975947														0.001	0.2	43	9	202	2	<2	<2	
		BLANK		K975948														0.001	<0.2	3	2	14	4	<2	<2	
90	95	27.43	28.96	K975949	QTE SCH	QTE SCH	Y W	f										0.001	<0.2	26		88	5	<2	<2	Fairly oxidized, slightly foliated, yellowish phyllitic quartzite with lesser schist .
95	100	28.96	30.48	K975950	SCH	SCH	w											0.001	0.3	57		19	6	<2	<2	
100	105	30.48	32.00	K975951	SCH	LT	w											<0.001	<0.2	24	8	28	6	<2	<2	Quartz-mica schist with equal quartzite intercalation. Granular, trace epidote occurs in hairline fracture. (m34)
105	110	32.00	33.53	K975952	QTE	GN												<0.001	<0.2	16	7	24	5	<2	<2	
110	115	33.53	35.05	K975953		WH												0.001	<0.2	10	7	57	3	<2	<2	
115	120	35.05	36.58	K975954														0.001	<0.2	13	11	41	3	<2	<2	
120	125	36.58	38.10	K975955														<0.001	<0.2	37	4	17	4	<2	<2	
125	130	38.10	39.62	K975956	SCH	LT	t-f											<0.001	<0.2	19	4	18	3	<2	<2	Light green with silky sheen quartz-mica schist with staurolite(?) and weak chlorite comprises yellowish, fairly oxidized sucrosic quartzite lenses.
130	135	39.62	41.15	K975957	QTE	GN												<0.001	<0.2	26	3	18	8	<2	<2	
135	140	41.15	42.67	K975958														0.002	0.2	24	7	39	4	<2	<2	
140	145	42.67	44.20	K975959														0.001	<0.2	27	5	74	3	<2	<2	

*Au and all other metals in ppm,except when values are bold which are expressed in %

"n=none,t<1%,w=1-3%,f=3-5%,m=5-7%,ms=7-10%,s=10-15%,i=15-20%

145	150	44.20	45.72	K975960														0.001	0.2	99	10	152	5	<2	<2	
150	155	45.72	47.24	K975961														0.003	0.2	88	8	190	5	<2	<2	
155	160	47.24	48.77	K975962	SCH	BN	t-f											0.002	1.4	911	87	411	4	<2	2	Green chloritic quartz-mica schist with staurolite(?) , and brownish, fairly oxidized sucrosic quartzite lenses.
160	165	48.77	50.29	K975963	QTE	GN												0.002	0.4	473	45	282	5	<2	<2	
165	170	50.29	51.82	K975964														0.002	0.4	408	33	390	2	<2	<2	
170	175	51.82	53.34	K975965														0.002	0.6	765	10	431	5	<2	<2	
175	180	53.34	54.86	K975966														0.001	0.4	66	8	203	5	<2	<2	
180	185	54.86	56.39	K975967														0.001	0.5	49	14	109	6	<2	<2	
185	190	56.39	57.91	K975968														0.001	0.3	137	13	217	5	<2	<2	
190	195	57.91	59.44	K975969														0.001	0.3	38	11	225	4	<2	<2	
195	200	59.44	60.96	K975970														0.001	0.2	44	9	217	3	<2	<2	
EOH																										

096008

Statement of Expenditures
Top 1-94 Mineral Claims
February 14, 2012

Expenses (including management fee)

Thorman Drilling Ltd.
ALS Chemex

\$32,375.70
11,198.50
\$43,574.20





THORMAN DRILLING LTD

P.O. Box 986
111 Cottonwood Road
NELSON, B.C. V1L 6A5
(250) 354-1333 Fax (250) 354-1331

INVOICE

1960

TO

Archer Cathro & Associates (1981)
Limited 1016-510 West Hastings St
Vancouver BC V6B 1L8

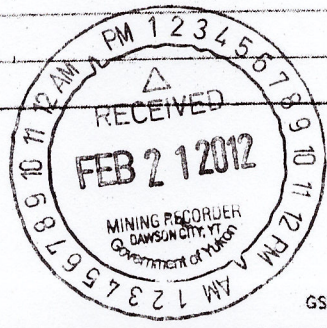
DATE June 21 / 11 JOB NO.

JOB NAME
JOB LOCATION Aishihikil Lake Y.T.

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	Mob / Demob as per Section 03F To be paid in advance of mobilization.	14,800	14,800.00
	AM in Hopper	7400 N/A 01	
	AM in Walrusine & Mason (details to come)	7400 N/A 01	
	Receipts for 24 June - 03 Sept. 2011 for TOP 1-50 dates	2.00 6. 2512.00	N/A 01
	AM in Top -	1184.00	
	A =	1243.20	

POSTED

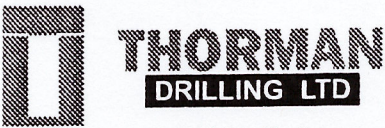
TERMS
NET DUE UPON RECEIPT UNLESS OTHERWISE AGREED UPON



GST #R136078565

SUBTOTAL	14,800.00
GST	740.00
PST	
TOTAL	15,540.00

THANK YOU



P.O. Box 986, 111 Cottonwood Road
 NELSON, B.C., V1L 6A5
 (250) 354-1333 Fax (250) 354-1331

INVOICE

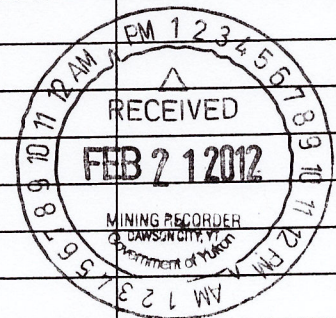
11-AC064

TO
Archer Cathro & Associates (1981) Ltd.
 1016 - 510 West Hastings St.,
 Vancouver BC V6B 1L8

DATE **Sept 5/11** Hole # _____
 JOB NAME **Top** ↑ _____
 JOB LOCATION _____

A ↑

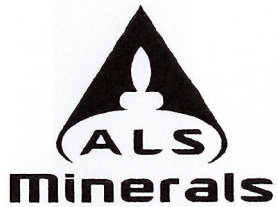
QUANTITY	DESCRIPTION	PRICE PER UNIT	AMOUNT
61	PDH-Top-11-4 Metres drilling	60	3660.00
61	PDH-Top-11-5 Metres drilling	60.	3660.00
2	PDH-Top-11-3 5 ft 4.5 inch lh threaded casing	298.	596.00
1	Mitsubishi casing shoe	490.	490.00
1.5	Hrs travel time	210.	315.00
		SUBTOTAL	\$8,721.00
		GST	\$ 436.05
		PST	
		TOTAL	\$9,157.05 ↑



GST #R136078565

THANK YOU

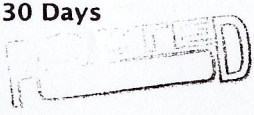
OK'd by WDE September 22, 2011



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

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

INVOICE NUMBER 2452996

BILLING INFORMATION	
Certificate:	WH11181099
Sample Type:	Rock
Account:	F
Date:	10-NOV-2011
Project:	TOP <i>AM</i>
P.O. No.:	<i>AM</i>
Quote:	
Terms:	Net 30 Days C1
Comments:	

QUANTITY	CODE	ANALYSED FOR	UNIT PRICE	TOTAL
		DESCRIPTION		
177	BAGS-B	Plastic Bags - Large	0.20	35.40
1	BAT-01	Administration Fee	26.63	26.63
177	Au-ICP21	Au 30g FA ICP-AES Finish	11.93	2,111.61
177	ME-MS41	51 anal. aqua regia ICPMS	13.91	2,462.07
177	GEO-AR01	Aqua regia digestion	2.63	465.51
177	LOG-22	Sample login - Rcd w/o BarCode	0.64	113.28
177	PUL-31	Pulverize split to 85% <75 um	2.24	396.48
177	SPL-22Y	Split Sample - Boyd Rotary Splitter	1.01	178.77
131.38	SPL-22Y	Weight Charge (kg) - Split Sample - Boyd Rotary Splitte	0.22	28.90
177	CRU-31	Fine crushing - 70% <2mm	1.44	254.88
131.38	CRU-31	Weight Charge (kg) - Fine crushing - 70% <2mm	0.27	35.47

SUBTOTAL (CAD) \$ 6,109.00

R100938885 HST BC \$ 733.08

TOTAL PAYABLE (CAD) \$ 6,842.08

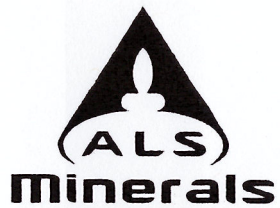
To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
 ATTN: JOAN MARIACHER
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Please Remit Payments To :
ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7



Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
 Bank: Royal Bank of Canada
 SWIFT: ROYCCAT2
 Address: Vancouver, BC, CAN
 Account: 003-00010-1001098
 Please send payment info to accounting.canusa@alsglobal.com



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

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

INVOICE NUMBER 2419033

BILLING INFORMATION	
Certificate:	WH11184560
Sample Type:	Rock
Account:	F
Date:	11-NOV-2011
Project:	TOP <i>AA</i>
P.O. No.:	
Quote:	
Terms:	Net 30 Days C1
Comments:	POSTED

QUANTITY	CODE	ANALYSED FOR - DESCRIPTION	UNIT PRICE	TOTAL
70	BAGS-B	Plastic Bags - Large	0.20	14.00
70	Au-ICP21	Au 30g FA ICP-AES Finish	15.90	1,113.00
70	ME-ICP41	35 Element Aqua Regia ICP-AES	7.10	497.00
70	GEO-AR01	Aqua regia digestion	3.50	245.00
70	LOG-22	Sample login - Rcd.w/o BarCode	0.64	44.80
70	PUL-31	Pulverize split to 85% <75 um	2.24	156.80
70	ME-MS41	51 anal. aqua regia ICPMS	13.91	973.70
70	CRU-31	Fine crushing - 70% <2mm	1.44	100.80
45.92	CRU-31	Weight Charge (kg) - Fine crushing - 70% <2mm	0.27	12.40
70	SPL-21	Split sample - riffle splitter	1.01	70.70
45.92	SPL-21	Weight Charge (kg) - Split sample - riffle splitter	0.22	10.10

SUBTOTAL (CAD) \$ 3,238.30

R100938885 HST BC \$ 388.60

TOTAL PAYABLE (CAD) \$ 3,626.90

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
 ATTN: JOAN MARIACHER
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
 Bank: Royal Bank of Canada
 SWIFT: ROYCCAT2
 Address: Vancouver, BC, CAN
 Account: 003-00010-1001098
 Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7

