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ASSESSMENT REPORT

describing

PROSPECTING AND GEOCHEMICAL SAMPLING

at the

ROSE PROPERTY

Rose 1-60 YD58591-YD58650

NTS 105K/5

Latitude 62°20'N; Longitude 133°33'W

in the

Whitehorse Mining District
Yukon Territory

Field work performed on August 24 and 25, 2012

prepared by

Archer, Cathro & Associates (1981) Limited

for

SILVER RANGE RESOURCES LTD.

by

C.J. Chung, B.Sc. Geology, GIT

January 2013

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INTRODUCTION

The Rose property lies on the southwest flank of the Anvil lead-zinc-silver district in southeastern Yukon. It was staked in the spring of 2010 to cover anomalous gold values reported by a reconnaissance-scale stream sediment survey. The property is owned by Silver Range Resources Ltd.

This report describes an exploration program of prospecting and geochemical sampling, which was conducted on August 24 and 25, 2012 by Archer, Cathro and Associates (1981) Limited on behalf of Silver Range. The author compiled and interpreted data related to this project and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Rose property comprises 60 contiguous mineral claims, located in southeastern Yukon at latitude 62°20' north and longitude 133°33' west on NTS map sheet 105K/5 (Figure 1). The property covers an area of about 1200 hectares (12 km²). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Silver Range. 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>
Rose 1-60	YD58591-YD58650	March 13, 2019

* Expiry date includes 2012 work that has been filed for assessment credit but has not yet accepted.

Access to and from the property was provided by a Bell 206B helicopter owned and operated by Trans North Helicopters from the Faro airport, which is located approximately 20 km southeast of the property. The crew stayed at the Archer Cathro crew house in Faro.

The community of Faro is the local supply centre. The closest road access to the Rose property is a bush trail that extends 18 km northwest from Faro to within 2 km of the property. Faro is accessible via the Robert Campbell Highway in all seasons using two-wheel drive vehicles.

HISTORY AND PREVIOUS WORK

The property area was mapped at 1:250,000 scale in 1987 by the Geological Survey of Canada (Gordey and Irwin, 1987) and at 1:100,000 scale in 2001 when the Yukon Geological Survey remapped the Anvil District (Pigage 2004).

There are five known stratiform massive sulphide deposits in the Anvil District, with a total inventory of 120.1 million tonnes averaging 9.3% combined zinc and lead (Pigage, 1999). Three of the five deposits have been mined, the Faro, Vangora and Grum deposits. The Faro mine site is located 12.5 km to the east of the Rose property. Due to the close proximity to Anvil deposits,

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

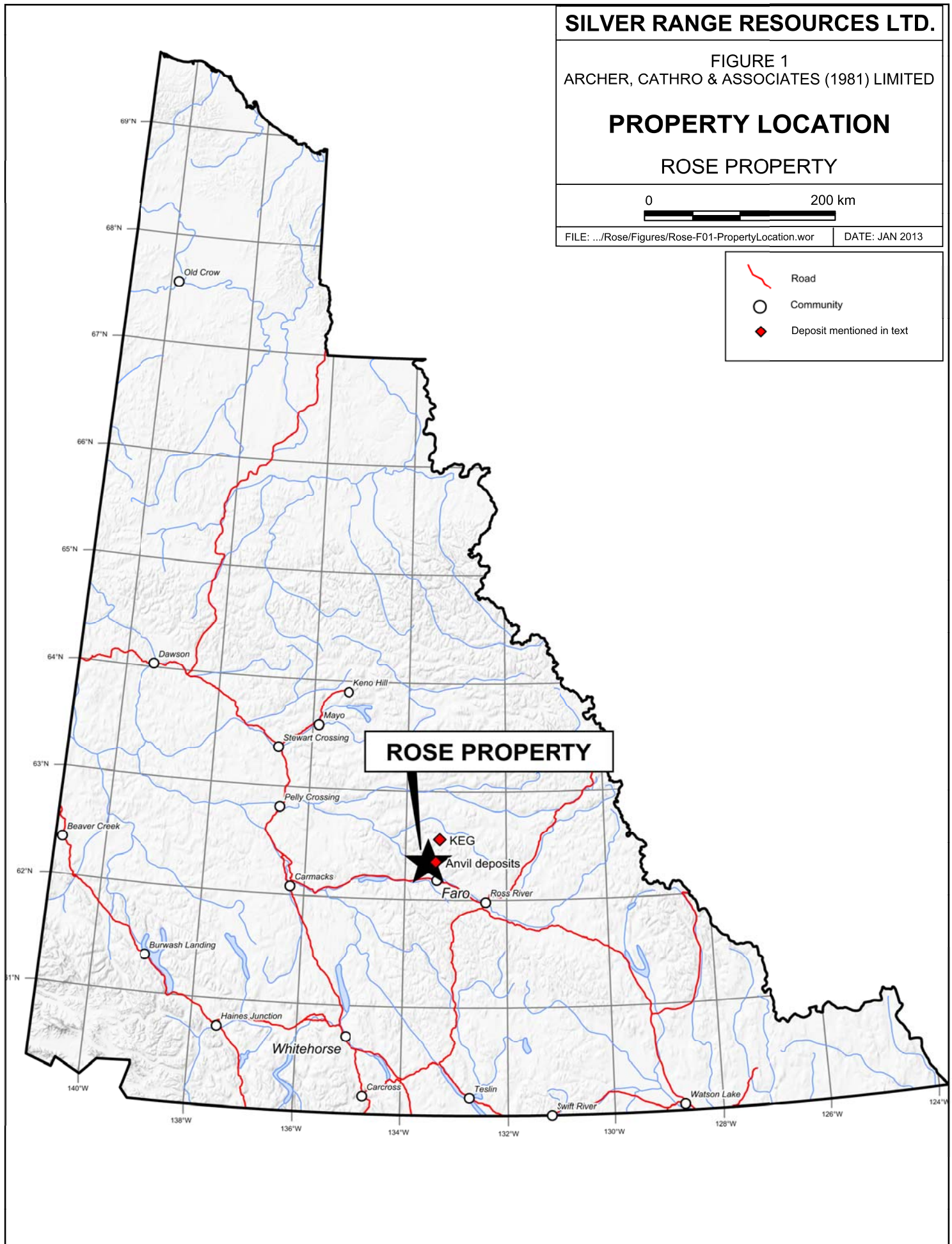
ROSE PROPERTY

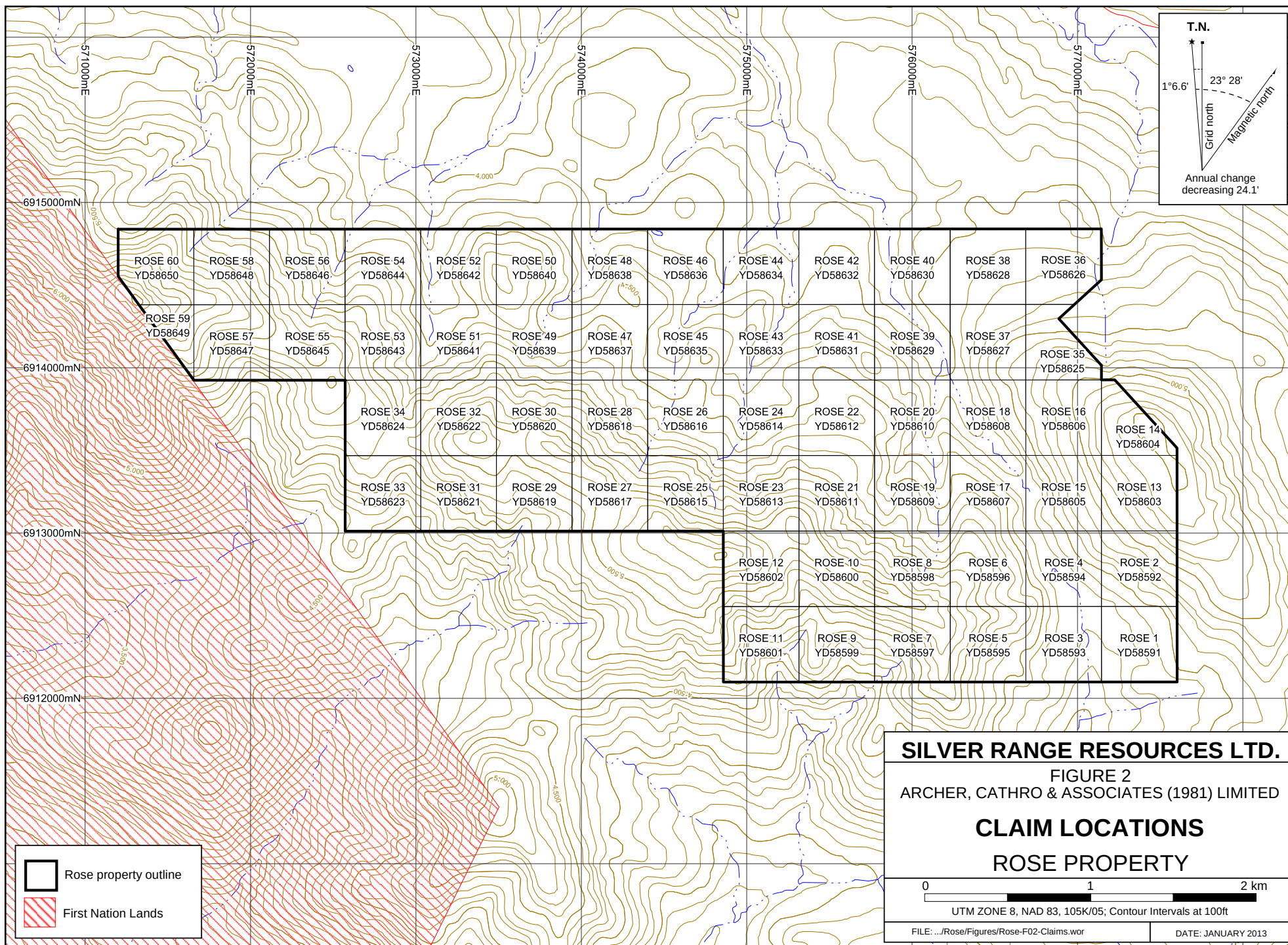
0 200 km

FILE: .../Rose/Figures/Rose-F01-PropertyLocation.wor

DATE: JAN 2013

-  Road
-  Community
-  Deposit mentioned in text





In 1981, Cypress Anvil Mining Corporation conducted an exploration program on its Urn property, which overlapped part of the current Rose property and extended further to the southeast. The Urn property comprised 131 contiguous claims. Sampling revealed two or three barite beds that ranged from 5 to 12 m thick over a possible strike length of 3.7 km. The barite beds are hosted in the Devonian-Carboniferous age Mount Aho Group (Read, 1982). An independent prospector currently holds two claims, which cover the centre of the barite occurrence with the remaining length extending northeast into the Rose property and southeast onto unstaked ground.

In 1988, Curragh Resources Inc. conducted an exploration program on its Northwest Faro project, located approximately 3 km northeast of the Rose property. That program consisted of regional mapping and one drill hole. The purpose of the drill hole was to test the boundary between the Vangora and Mt. Mye Formations. This transition zone is the stratigraphic interval that hosts the Anvil deposits. No mineralization was intersected in the drill hole.

In 1998 the Geological Survey of Canada collected six stream sediment samples from creeks near the current Rose property. The highest gold value (23 ppb) came from a large creek draining the east side of the property. Strategic Metals Ltd. staked the Rose property in spring 2010 to cover the drainage that produced this anomalous stream sediment sample.

Stream sediment samples collected by Strategic Metals in summer 2010 yielded some significant gold and copper anomalies. The best gold value was 40 ppb, while the highest copper value was 338 ppm. A large creek draining the eastern part of the property and a smaller creek to the west returned most of the moderately to strongly anomalous gold values. Soil samples collected by Strategic Metals in 2010 returned slightly elevated gold values, mostly on the eastern portion of the claim block and a cluster of moderately to strongly anomalous silver and antimony values. The peak soil values were 18 ppb gold, 135 ppm copper, 5 ppm silver, and 27 ppm antimony (Phillips and Eaton, 2011).

In the summer 2011, ownership of the property was sold by Strategic Metals to Silver Range.

Silver Range continued exploration on the Rose property in 2011 with additional soil sampling, focusing mainly on the western portion of the property area. Contour soil sampling identified a cluster of anomalous gold values along a ridge near the southwestern property boundary. These anomalous values could be related to a fault that crosses the property. Values for gold, silver and copper tend to be higher on the upper contour lines. This may be due in part to poor quality soil samples caused by extensive permafrost found below tree line, lower on the hillside (Dumala, 2012).

GEOMORPHOLOGY AND CLIMATE

The Rose property lies immediately north of the Tintina Trench within the Anvil Range of the Pelly Mountains. Creeks draining the property flow mostly into the Rose Creek, which ultimately connects to the Pacific Ocean via the Pelly and Yukon rivers.

Local elevations on the property range from 1200 to 1800 m above sea level. Topographic relief is steep along the southern side of the property, which lies above treeline. Elsewhere, relief is gentle. Outcrops are common above treeline, but are limited to creek banks at lower elevations. The property setting is sub-alpine. Vegetation on lower slopes and valley floors comprises black spruce and alder with an understory of low shrubs, moss and grass. Permafrost is extensive due to the thick moss cover. Valley bottoms in the area are blanketed by varying thicknesses of glaciofluvial outwash and glacial till from the late Wisconsin, McConnell glaciation.

The climate in the Rose area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. The property is mostly snow free from early May to late September.

GEOLOGY

The Rose property lies on the southwest flank of the Anvil District (Figure 3), where rocks of the Cordilleran Miogeocline are juxtaposed against the Yukon-Tanana Terrane, the easternmost of the accreted terranes in the Canadian Cordillera.

The Cordilleran Miogeocline is a predominantly sedimentary package of Precambrian to Middle Jurassic rocks that were deposited along the western margin of ancestral North America (Pigage, 1999). Rocks older than Jurassic are assumed to have been part of a west to southwest facing marine passive margin of ancestral North America, while sedimentary rocks younger than Jurassic represent a depositional linkage to Cordilleran deformation that resulted from exotic terranes being accreted onto North America (Pigage, 1999). Table 1 summarizes rock units that occur near the Rose property.

Table 1 – Regional Lithologies of the Rose Mountain Area (*After Pigage, 2001*)

Unit	Map name	Age	Description
Yukon-Tanana Terrane			
Nasina Assemblage	Pyq	Devonian-Mississippian	Medium to dark grey, locally gritty, muscovite meta-quartzite to quartzose schists containing bands of greywacke, gabbro and phyllite and some eclogite lenses.
Cordilleran Miogeocline			
Faro Peak Formation	TFP	Triassic	Resistant, massive, polymictic conglomerate, interbedded with: carbonaceous shale or siltstone; fine grained limestone; grey, green, red or black bedded chert; sandstone; and mafic greywacke and aphanitic basalt.
Anvil Range Group	PARG	Permian	Epidotized, locally hematitic, dark green, resistant, massive, poorly foliated basalt or brecciated basalt containing lesser grey, green, red and black bedded chert and pale green epivolcaniclastic sandstone or conglomerate.
	PZum	Permian	Mafic and ultramafic intrusive rocks including serpentinite, harzburgite, gabbro and diabase; locally extensively sheared.
Rose	CPRm	Carboniferous-	Pale green, tan-weathering, bedded phyllitic chert

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

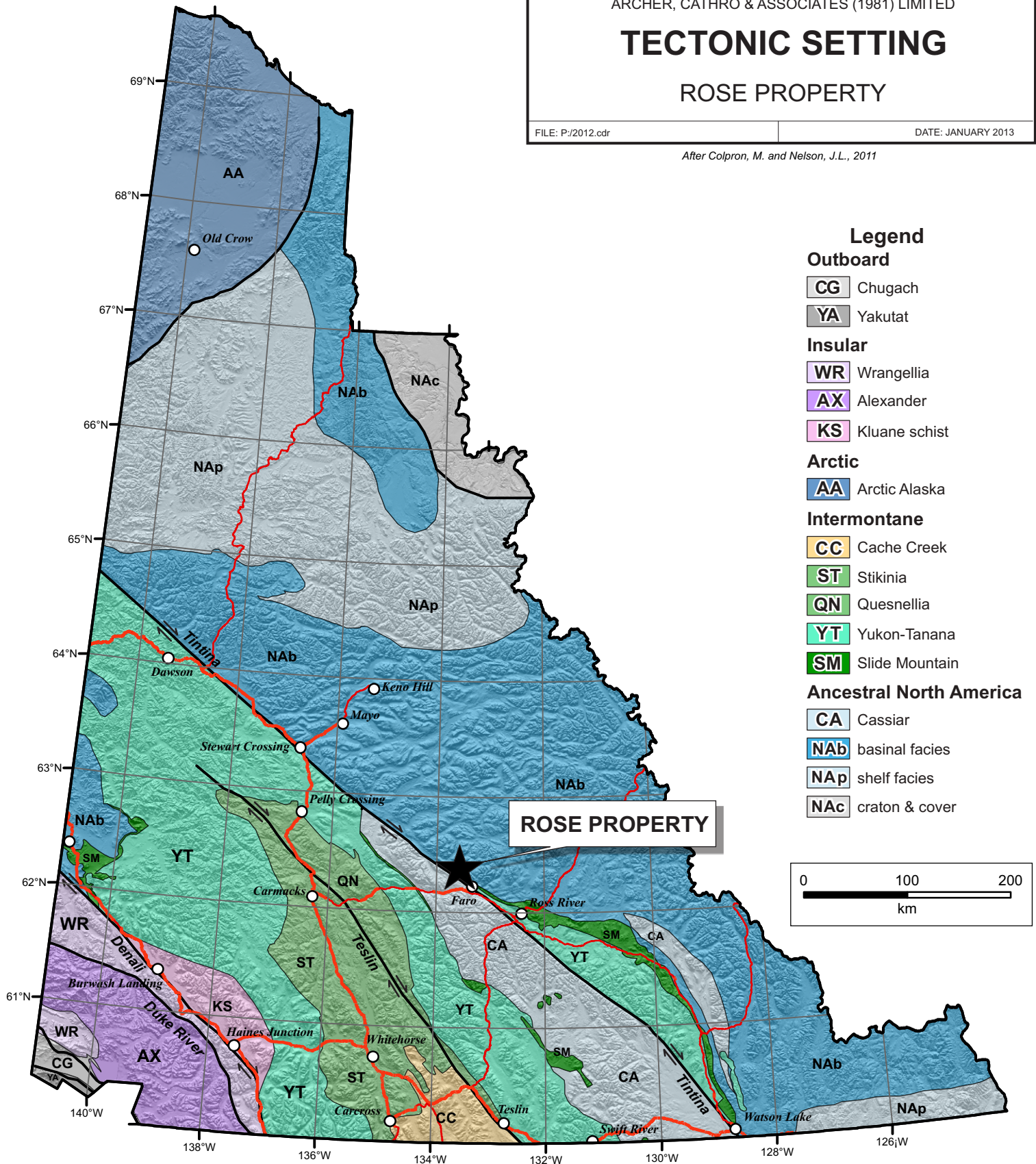
TECTONIC SETTING

ROSE PROPERTY

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DATE: JANUARY 2013

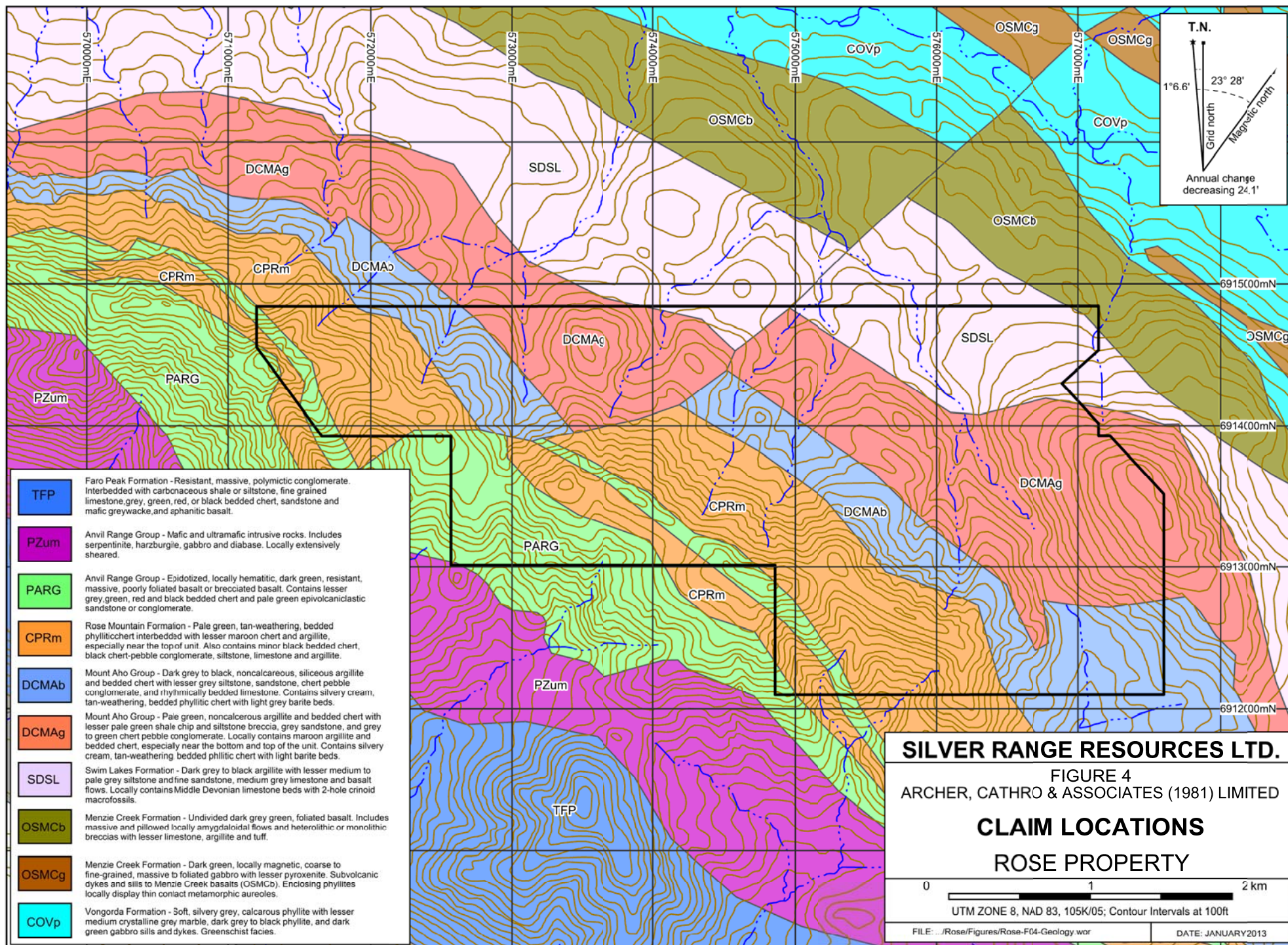
After Colpron, M. and Nelson, J.L., 2011



Mountain Formation		Permian	interbedded with lesser maroon chert and argillite, especially near the top of unit; also contains minor black bedded chert, black chert-pebble conglomerate, siltstone, limestone and argillite.
Mount Aho Group	DCMAb	Devonian-Carboniferous	Dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser grey siltstone, sandstone, chert pebble conglomerate, and rhythmically bedded limestone; also contains silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds.
	DCMAg	Devonian-Carboniferous	Pale green, noncalcerous argillite and bedded chert with lesser pale green shale chip and siltstone breccia, grey sandstone, and grey to green chert pebble conglomerate. Locally contains maroon argillite and bedded chert, especially near the bottom and top of the unit, and silvery cream, tan-weathering, bedded phyllitic chert with light barite beds.
Swim Lakes Formation	SDSL	Silurian-Devonian	Dark grey to black argillite with lesser medium to pale grey siltstone and fine sandstone, medium grey limestone and basalt flows; locally contains middle Devonian limestone beds with 2-hole crinoid macrofossils
Menzie Creek Formation	OSMCb	Ordovician-Silurian	Undivided dark grey green, foliated basalt; includes massive and pillowed locally amygdaloidal flows and heterolithic or monolithic breccias with lesser limestone, argillite and tuff.
	OSMCg	Ordovician-Silurian	Dark green, locally magnetic, coarse to fine-grained, massive to foliated gabbro with lesser pyroxenite; subvolcanic dykes and sills to Menzie Creek basalts (OSMCb); enclosing phyllites locally display thin contact metamorphic aureoles
Vangorda Formation	COVp	Cambrian-Ordovician	Soft, silvery grey, calcarous phyllite with lesser medium crystalline grey marble, dark grey to black phyllite, and dark green gabbro sills and dykes; greenschist facies.

The Rose property is underlain by units of the Cordilleran Miogeocline, which range from Swim Lakes Formation in the northeast corner upward to Anvil Range Group in the southwest corner (Figure 4). The units are relatively homoclinal, striking northwest and dipping gently to the southwest. There are no intrusive rocks on the property and the closest known pluton is the Anvil Range Batholith, 4 km to the northeast. A high angle fault cuts east-northeasterly through the property. Unit contacts across this fault show about 500 m of apparent dextral offset; however, similar displacement of contacts could have resulted from predominately dip-slip movement with the east side down. This fault may be related to the Tintina Fault, a major transcurrent structure whose movement in late Cretaceous and early Tertiary resulted in 460 km of dextral offset. The Tintina Fault lies six kilometres southwest of the property.

No property-scale mapping was completed in 2012.



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FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS **ROSE PROPERTY**

0 1 2 km

UTM ZONE 8, NAD 83, 105K/05; Contour Intervals at 100ft

FILE: .../Rose/Figures/Rose-F04-Geology wor

DATE: JANUARY 2013

The Yukon Geological Services maintains a website that updates Yukon geology as new data becomes available.

MINERALIZATION

Seven rock samples were collected in 2012 from the southeastern part of the Rose property. Sample locations are plotted on Figure 5, while results for gold, arsenic, copper, silver, antimony, lead, zinc, and cobalt are shown thematically on Figures 6 to 13, respectively. Rock sample descriptions are provided in Appendix II, while Certificates of Analysis are given in Appendix III.

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

Samples were submitted to an ALS Minerals prep laboratory in Whitehorse, Yukon where they were dried and screened to -2 mm. A 250 g split was then pulverized to 75 micron and a portion of this material was sent to ALS Minerals in North Vancouver, British Columbia where it was digested in aqua regia before being analyzed for 48 elements by four acid digestion with inductively coupled plasma-atomic emission spectroscopy and inductively coupled plasma-mass spectrometry (ME-MS61). All rock samples were then analyzed for gold using fire assay technique (Au-AA24).

According to previous mapping, samples collected from the property in 2012 plot dominantly in Mount Aho Group rocks, which are described as siliceous argillite and bedded chert units with lesser grey siltstone, sandstone and bedded limestone. Samples were mostly crackle breccias or chalcedonic/siliceous rock, often with rusty patches. Ferricrete and limonite were common on fracture surfaces.

Rock samples mostly returned background values for all metals of interest.

GEOCHEMICAL SAMPLING

Geochemical sampling in 2010 returned some slightly elevated gold values mostly in the eastern portion of the claim block and a cluster of moderately to strongly anomalous silver and antimony values in the west-central part. Follow up sampling in 2011 was mostly done on a northeastern slope located along the southwest edge of the property, and produced values up to 123 ppb gold, 8.87 g/t silver, 295 ppm copper, 48.3 ppm lead, 351 ppm zinc, and 118 ppm cobalt (Dumala, 2012).

Geochemical sampling in 2012 comprised 314 soil samples collected at 100 m intervals along seven contour lines and 10 stream sediment samples taken along one creek. Sample locations are shown on Figure 5, while results for gold, arsenic, copper, silver, antimony, lead, zinc, and cobalt are compiled on Figures 6 to 13, respectively. Certificates of Analysis are given in Appendix III.

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FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

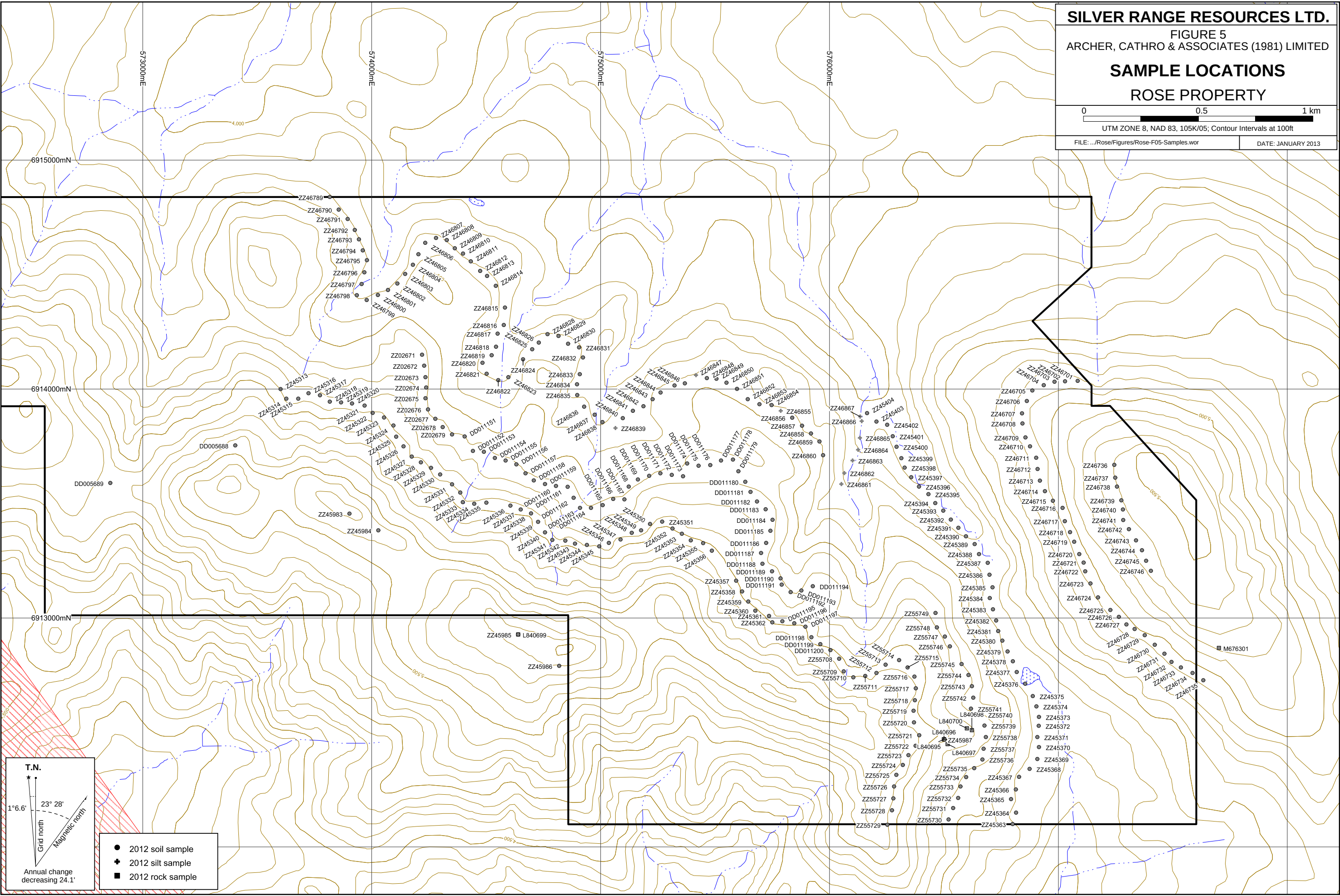
SAMPLE LOCATIONS
ROSE PROPERTY

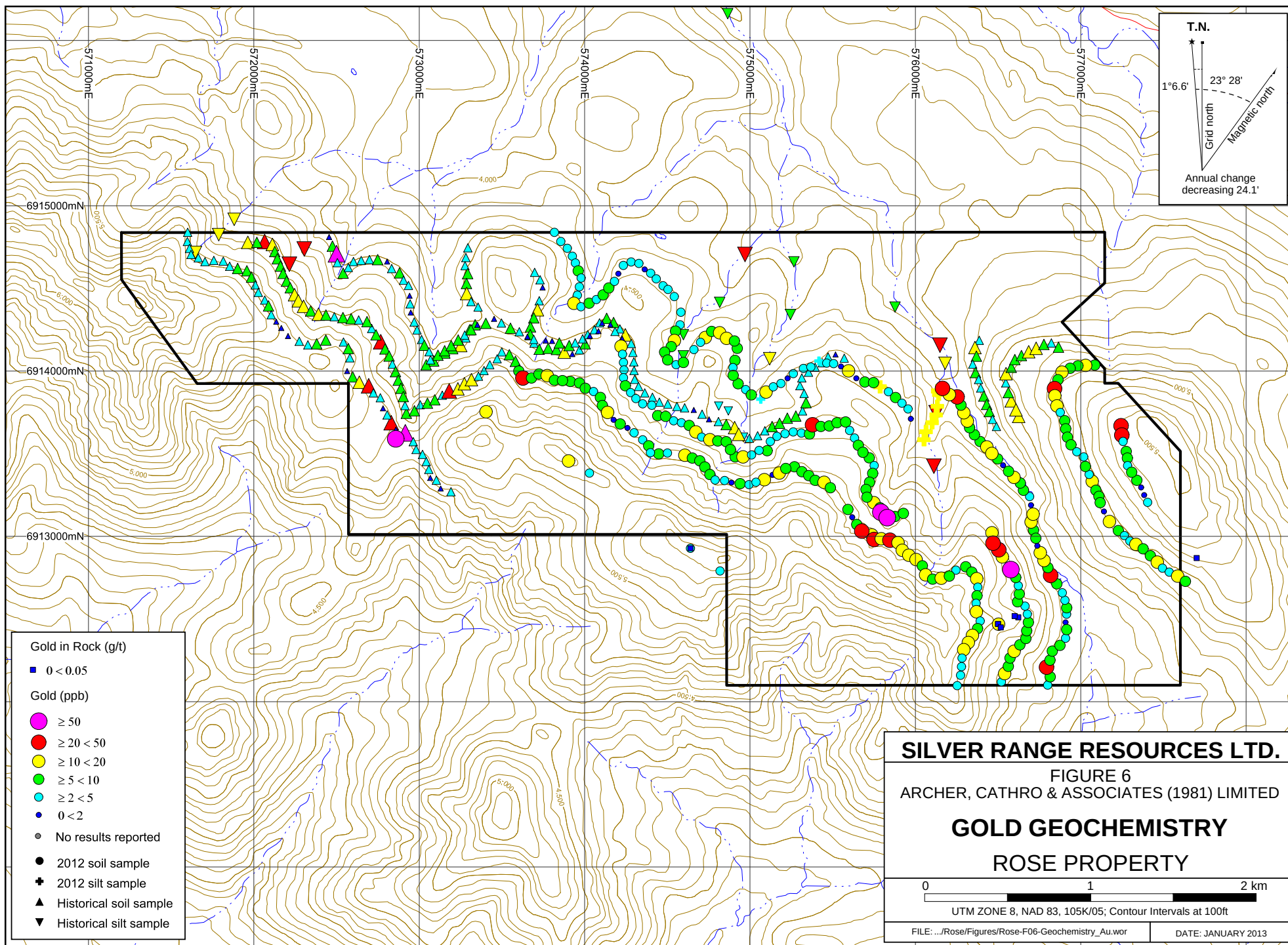
0 0.5 1 km

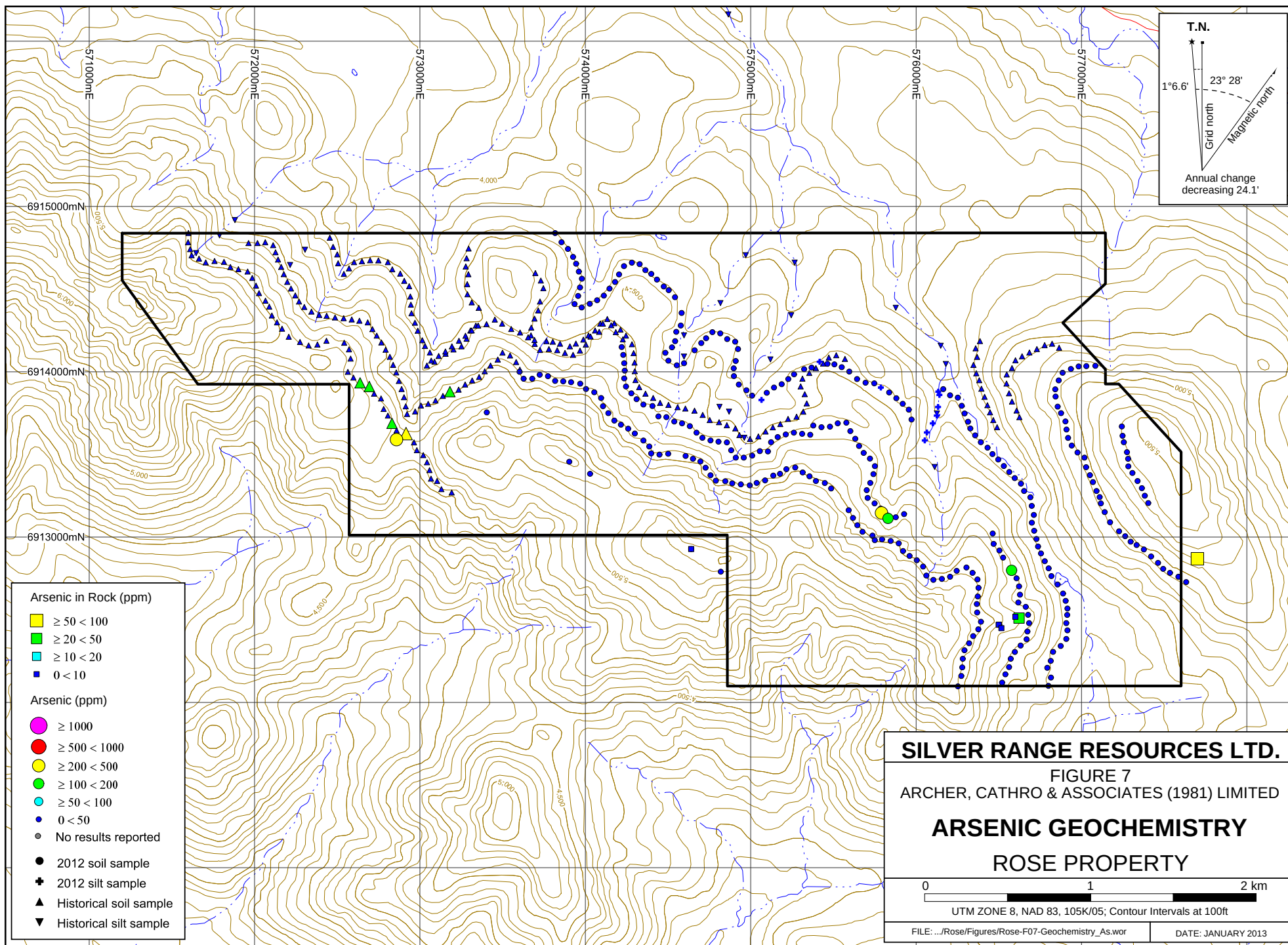
UTM ZONE 8, NAD 83, 105K/05; Contour Intervals at 100ft

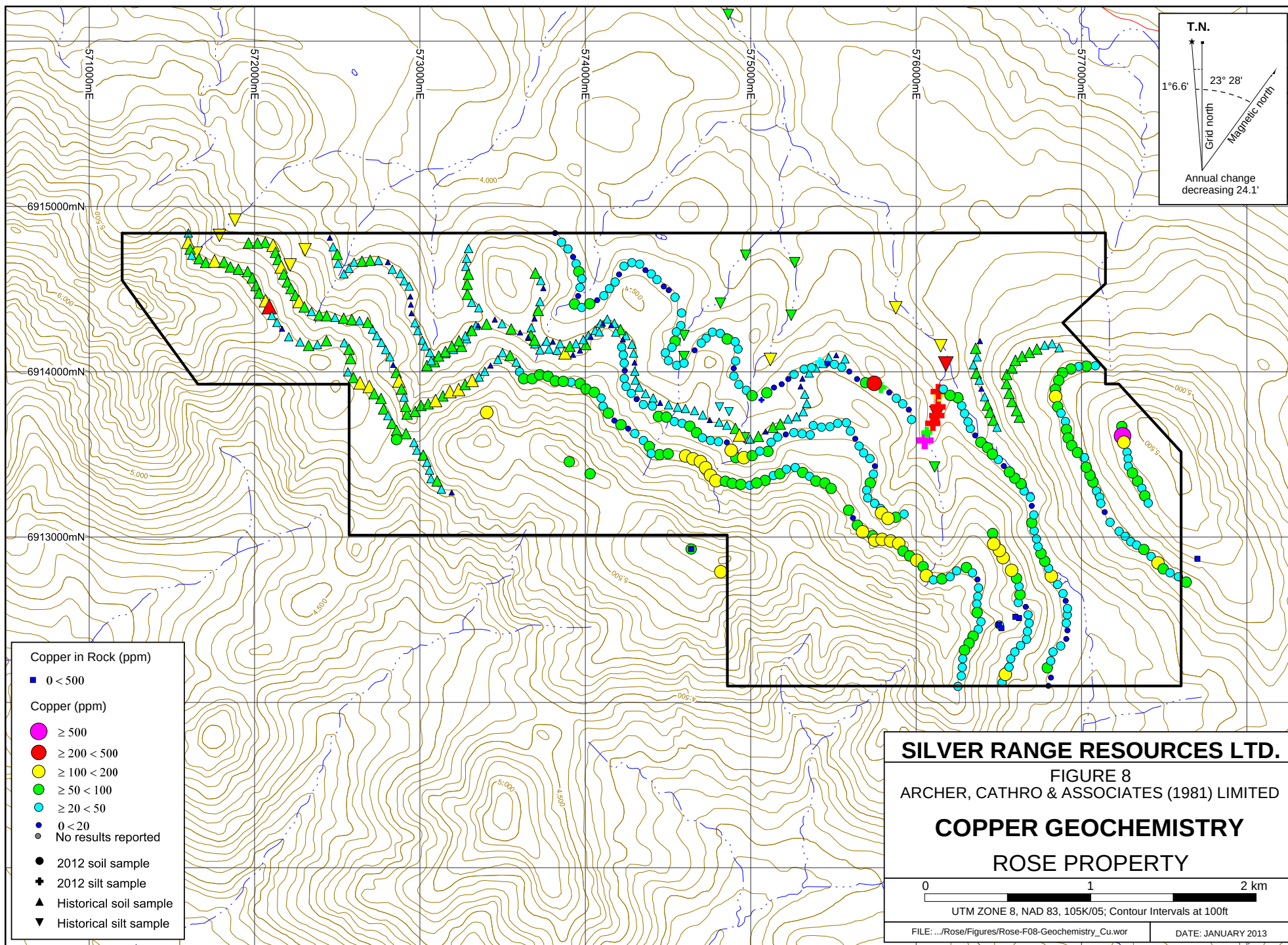
FILE: .../Rose/Figures/Rose-F05-Samples.wor

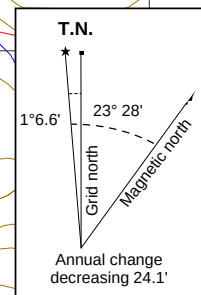
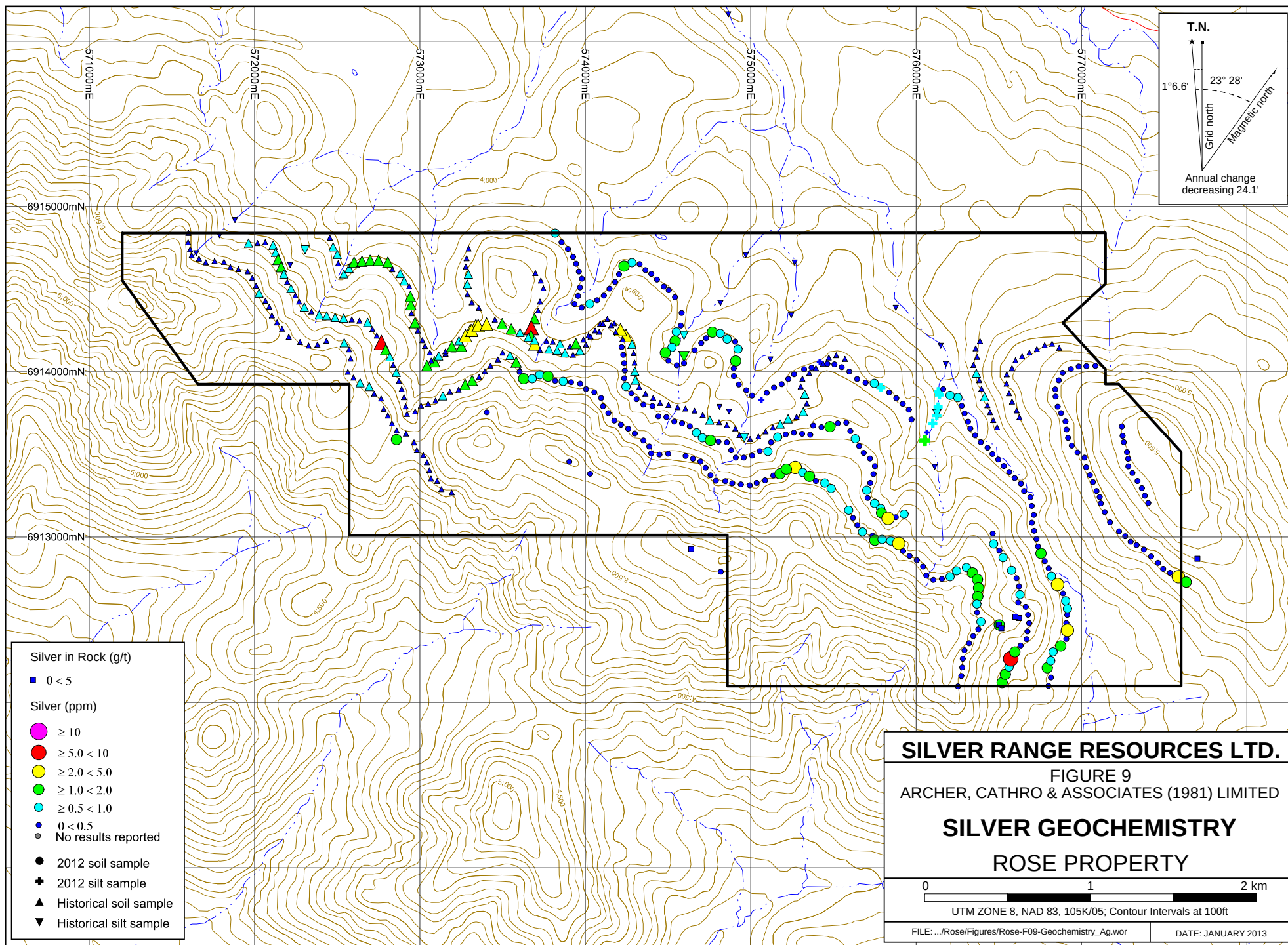
DATE: JANUARY 2013

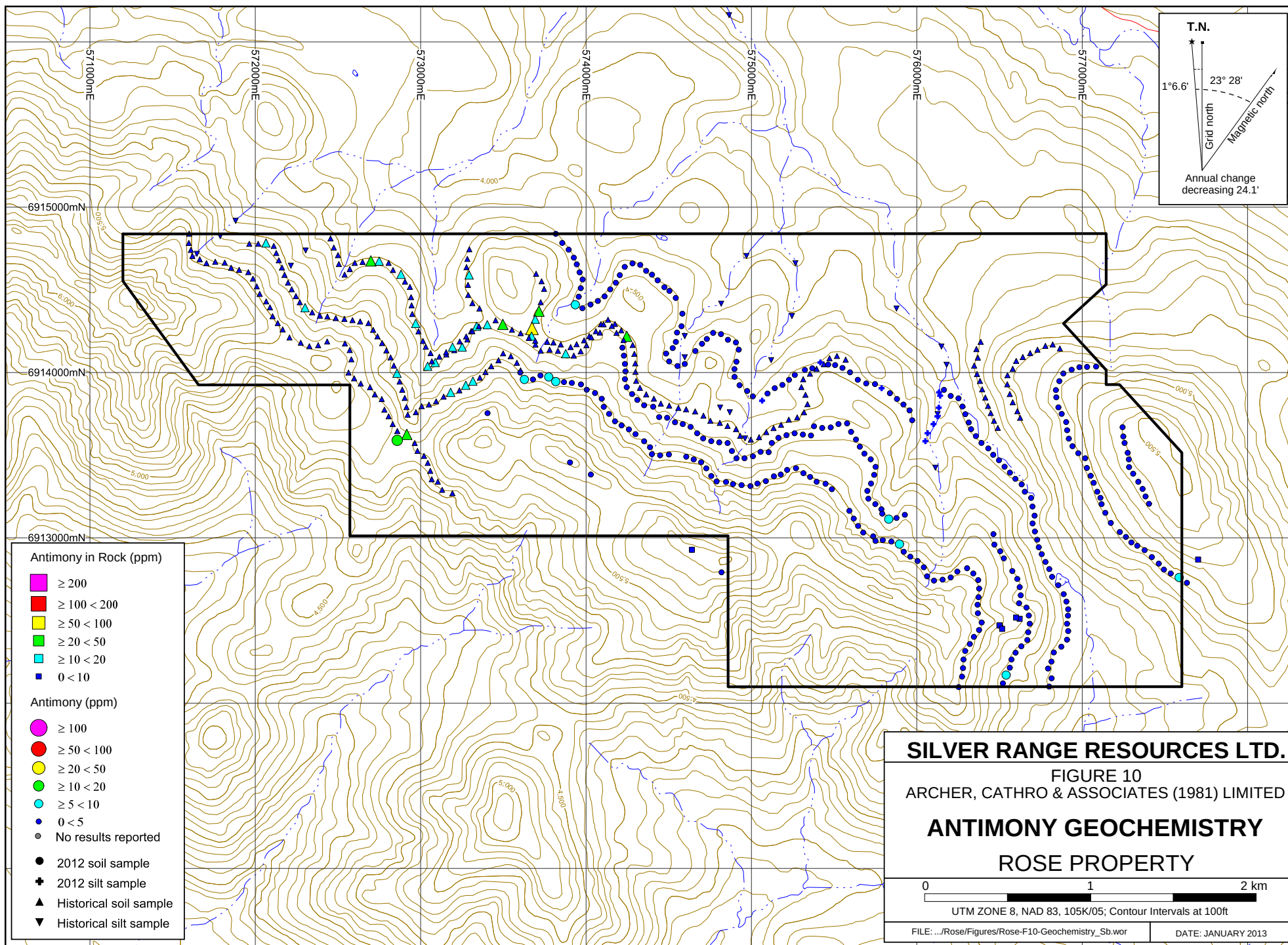


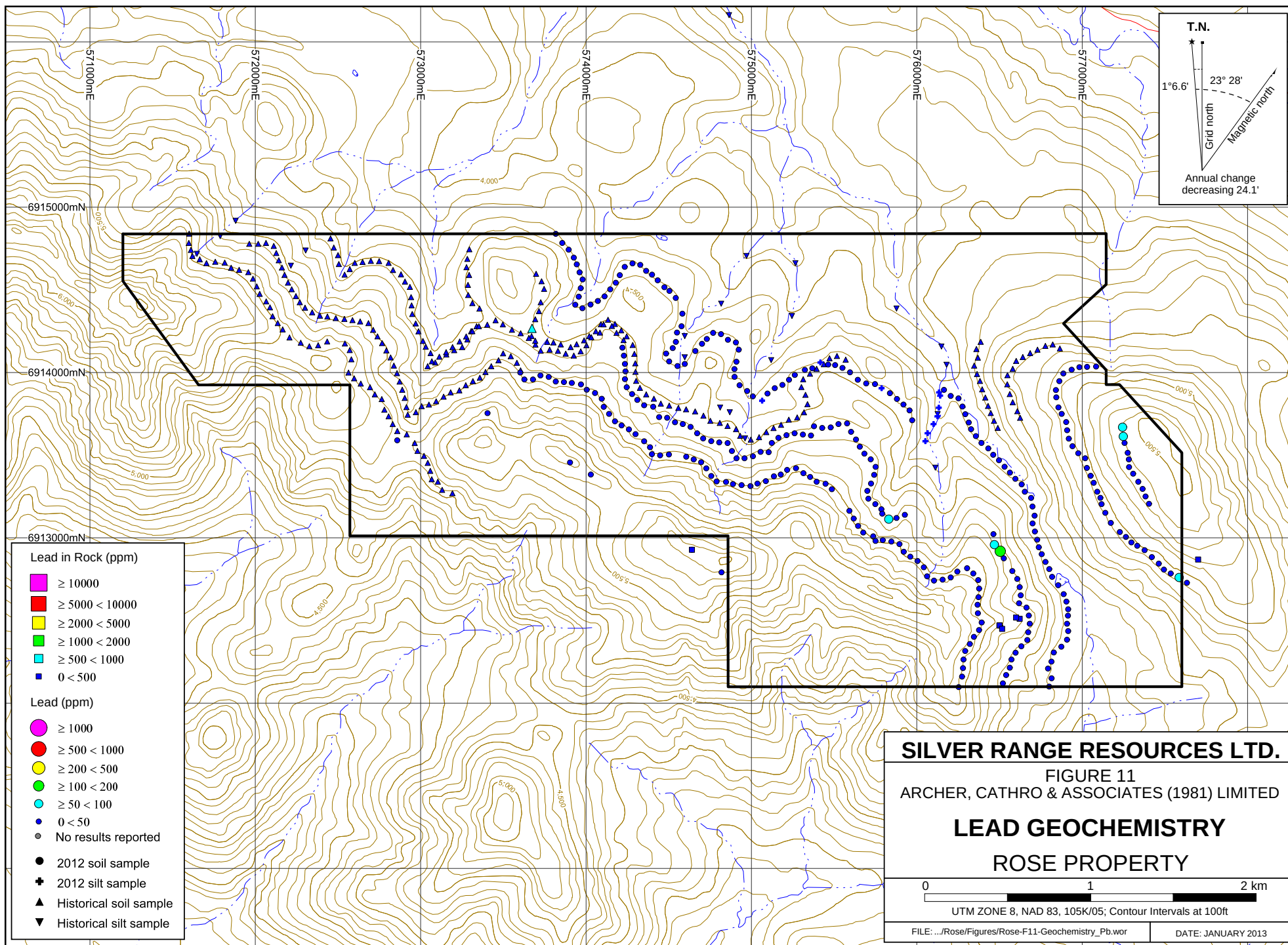


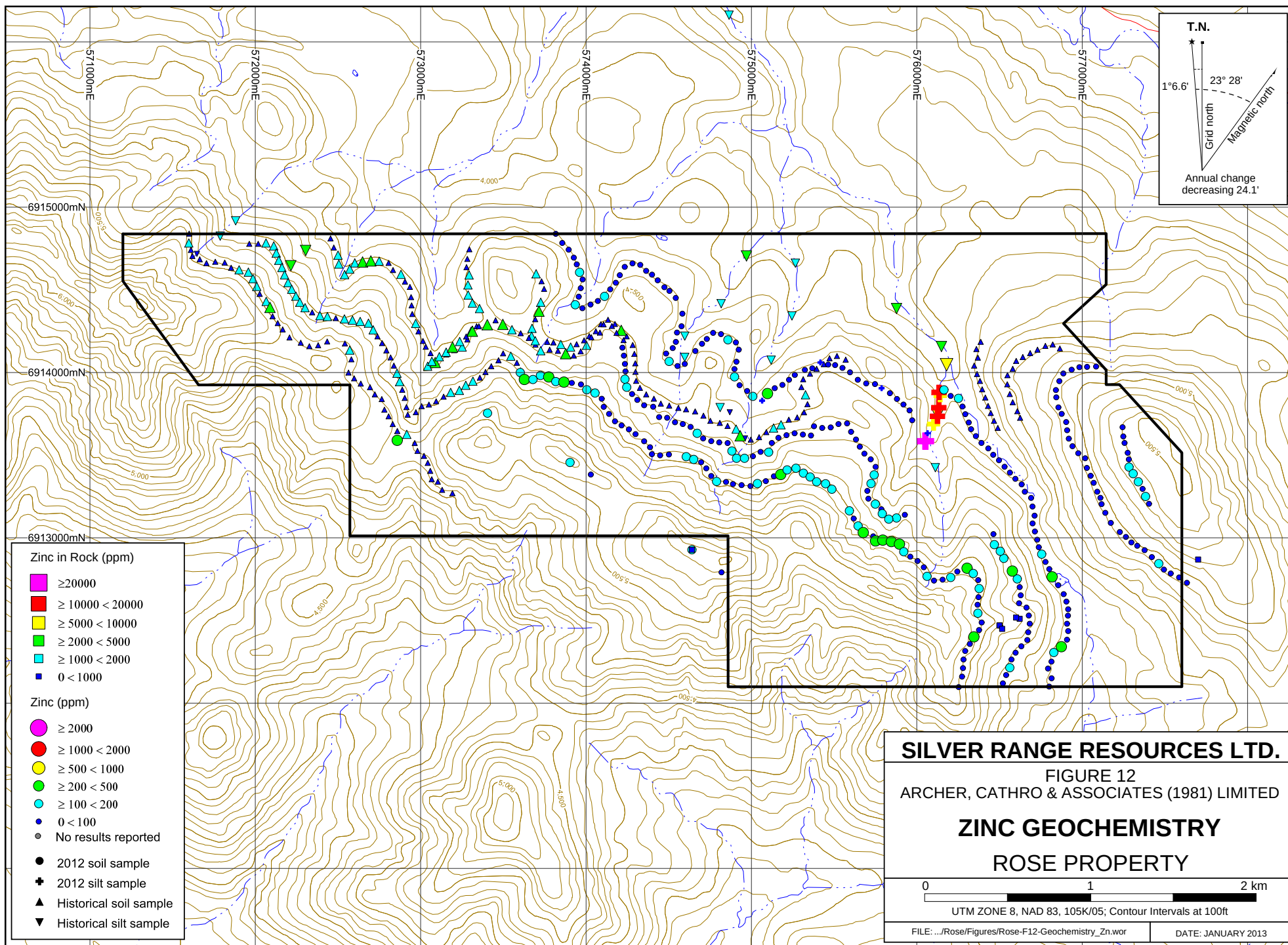


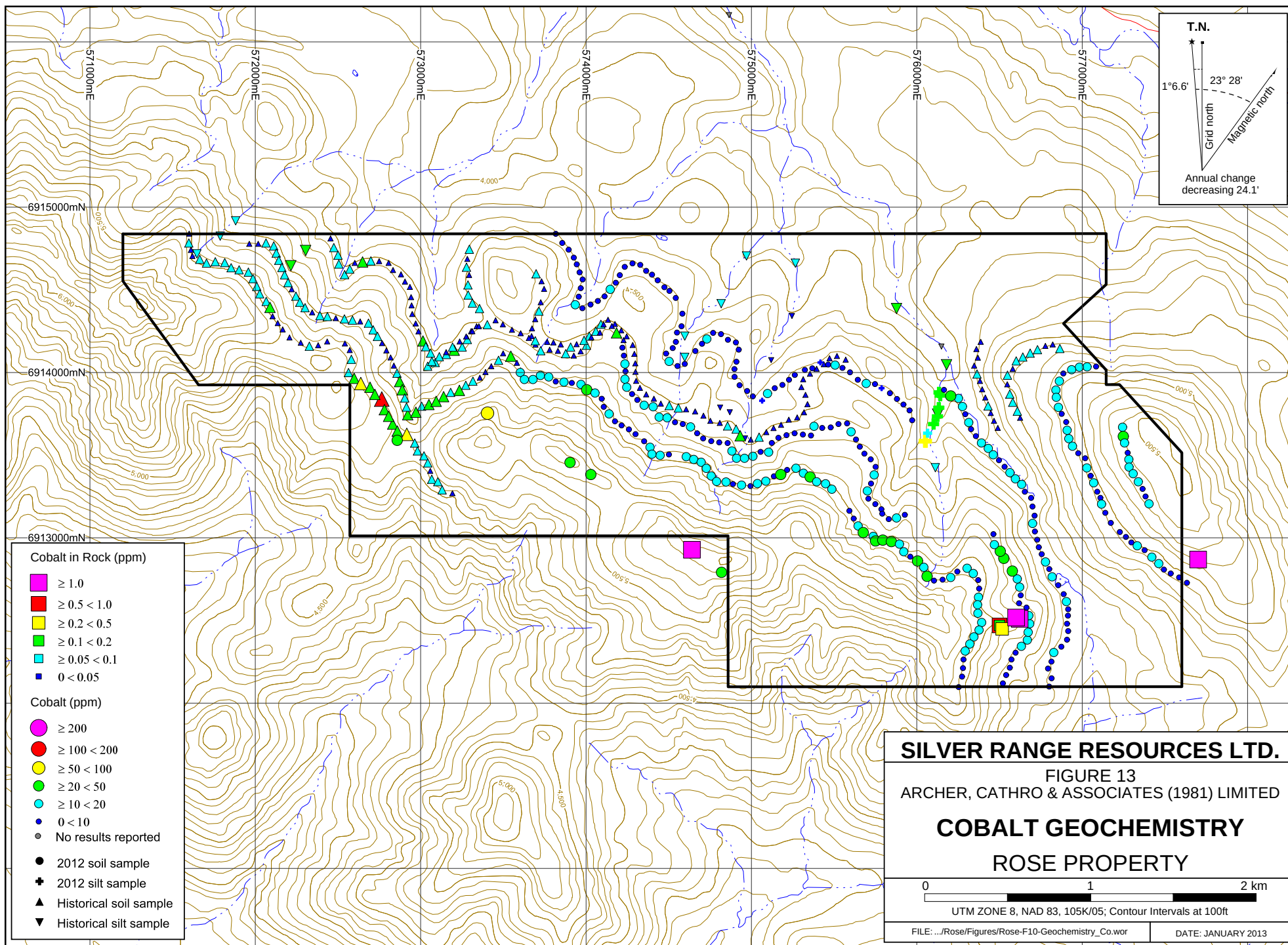












Soil samples were collected from 30 to 50 cm deep holes dug with hand-held augers. All samples were placed into individually pre-numbered Kraft paper bags. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Sample locations were recorded using hand-held GPS units.

The stream sediment samples were collected by hand and placed in individually pre-numbered Kraft paper bags. Their locations were marked with orange flagging labelled with the sample number. Locations were recorded using hand-held GPS units.

All geochemical samples were sent to ALS Minerals in Whitehorse where they were dried, screened to -180 microns. The fine fractions were then sent to ALS Mineral's lab in North Vancouver where they were analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Anomalous thresholds and peak values for all geochemical samples are listed in Table II.

Table II – Geochemical Data for Geochemical Samples

Element	Anomalous Thresholds					
	Weak	Moderate	Strong	Very Strong	Peak (Soil)	Peak (Stream Sed)
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50 < 100$	≥ 100	269	40
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	≥ 200		299	28
Copper (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	563	807
Silver (ppm)	$\geq 1 < 2$	$\geq 2 < 5$	≥ 5		8.87	1.06
Antimony (ppm)	$\geq 10 < 20$	≥ 20			27	4
Lead (ppm)	≥ 100				115	38.1
Zinc (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500 < 1000$	≥ 1000	494	2440

Two zones of anomalous geochemical values were better defined by the 2012 sampling. The anomaly in the western portion of the property (Anomaly A) is northwest-trending and approximately 1.5 km long. Peak values are 96 ppb gold, 299 ppm arsenic, 295 ppm copper, 8.87 ppm silver, 15.75 ppm antimony, 42.2 ppm lead, 351 ppm zinc, and 118 ppm cobalt. The anomalous zone in the eastern part of the property (Anomaly B) is approximately 1.5 km in diameter. Samples from this zone returned up to 269 ppb gold, 231 ppm arsenic, 807 ppm copper, 6.52 ppm silver, 114.5 ppm lead, and 2440 ppm zinc. The highest gold value came from a soil sample taken near the crest of a northwest-southeast trending ridge in Anomaly B, while the highest copper value is from a stream sediment sample collected from a north-flowing stream in the same area.

DISCUSSION AND CONCLUSIONS

The 2012 exploration program was designed to extend the 2010 and 2011 contour soil sample coverage to the east of previously sampled areas and to cover the headwaters of two streams that drain north and south out of the Rose property area.

Contour soil sampling has identified two anomalous zones in the western and eastern parts of the property, but data is still too widely spaced to properly evaluate. Little prospecting has been done and work to date has not identified a specific source for the metals.

Stream sediment sampling mostly returned background to moderately elevated values for the metals of interest; however, a creek in the eastern part of the property returned some very high values for copper and zinc. Results from soil samples taken in the vicinity of that creek were much less anomalous. This discrepancy may be due to hydromorphic transport of the relatively mobile copper and zinc ions. When sulphide bodies weather, copper and zinc are often taken into solution at a point where pH in groundwater is low and are then transported through soil and into nearby creeks. The soluble metals stay in solution until the pH in the water increases by dilution with non acidic water or by buffering with rocks in the creek bed. It is possible that the source for the metals is a sulphide body in the headwaters of the creek.

Prospecting, detailed geological mapping, and hand pitting should be conducted around anomalous soil sample sites, and closely spaced grid soil sampling should be completed within the anomalous zones. Particular attention should be paid to the headwaters of the creek where strongly elevated copper and zinc values were returned from stream sediment samples.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



C.J. Chung, B.Sc. Geology, GIT

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 2012 MapViewer Online <http://mapservices.gov.yk.ca/Mining/WebMap.aspx>

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Crystal J Chung, 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 of British Columbia in 2005 with a B.Sc. majoring in Earth and Ocean Sciences (Geology).
2. From 2004 to present, I have been actively engaged in mineral exploration in British Columbia, Alaska and the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 138321).
4. I have personally reviewed and interpreted all data resulting from this work.



C.J. Chung, B.Sc. Geology, GIT

APPENDIX II

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions				Project: <u>Keg</u>		Zone:	Rose	Page ____ of _2_		
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept:	Geochem Results		
L840695	UTM:	576500	E	UTM:	6912470	N	Sample Width:	cm	Ag	ppm
Sampler:	Elevation:	m		Dimension:		Photo taken:		Au	ppm	
M. Kammerer	Comments:									ppm
Date:	24/08/2012									
Pervasively rusty, intensely siliceous rocks in near source patch 0.5m diameter										
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept	Geochem Results		
L840696	UTM:	576500	E	UTM:	6912470	N	Sample Width:	cm	Ag	ppm
Sampler:	Elevation:	m		Dimension:		Photo taken			ppm	
M. Kammerer	Comments:									ppm
Date:	24/08/2012									
Grey chalcedonic qz with thin rusty partings. Several cobbles burried up to 8cm TW. Rusty zone striking roughly 322 deg.										
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept	Geochem Results		
L840697	UTM:	576516	E	UTM:	6912449	N	Sample Width:	cm	Ag	ppm
Sampler:	Elevation:	m		Dimension:		Photo taken			ppm	
M. Kammerer	Comments:									ppm
Date:	24/08/2012									
Thin fragments of ferricrete bx (2cm TW) from within rusty patch flanked by intensely silicified float.										
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept	Geochem Results		
L840698	UTM:	576622	E	UTM:	6912510	N	Sample Width:	cm	Ag	ppm
Sampler:	Elevation:	m		Dimension:		Photo taken			ppm	
M. Kammerer	Comments:									ppm
Date:	24/08/2012									
Pervasively rusty, intensely silicified pale rock in outcrop 2X2m on short slope flanking recessive channel.										
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept	Geochem Results		
L840699	UTM:	574640	E	UTM:	6912928	N	Sample Width:	cm	Ag	ppm
Sampler:	Elevation:	m		Dimension:		Photo taken			ppm	
M. Kammerer	Comments:									ppm
Date:	24/08/2012									
Qz/ Li vein fragment 2 cm TW. Found in gouge zone within broad saddle along ridge.										
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept	Geochem Results		
L840700	UTM:	576600	E	UTM:	6912518	N	Sample Width:	cm	Ag	ppm
Sampler:	Elevation:	m		Dimension:		Photo taken			ppm	
M. Kammerer	Comments:									ppm
Date:	24/08/2012									
Crumbly white and limonitic crackle breccia with strong mng anf Li on fractures. Small outcrop on slope of recessive channel.										

Rock Sample Descriptions				Project: <u>Keg</u>		Zone: <u>Rose</u>		Page <u> </u> of <u>2</u>			
Sample #:	Grid East	E	Grid North	N	Type:	near source float	Sample kept:	Geochem Results Agppm ppm ppm ppm ppm			
M676301	UTM:	577701	E	UTM:	6912869	N	Sample Width:			cm	Photo taken:
Sampler:	Elevation:	m		Dimension:							
M. Kammerer	Comments:										
Date:											
24/08/2012	Rusty crackle breccia, siliceous, from rusty patch 1 X 2 m on alpine slope, shaley host rocks.										

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: **SILVER RANGE RESOURCES LTD.**

C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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

Page: 1
Finalized Date: 12- SEP- 2012
Account: RANSIL

CERTIFICATE WH12202862

Project: ROSE

P.O. No.:

This report is for 7 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

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
CRU- QC	Crushing QC Test
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 31	Pulverize split to 85%< 75 um

ANALYTICAL PROCEDURES

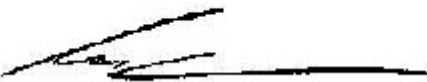
ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- MS61	48 element four acid ICP- MS	

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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 Finalized Date: 12- SEP- 2012
 Account: RANSIL

Project: ROSE

CERTIFICATE OF ANALYSIS WH12202862

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
L840695		0.35	<0.005	0.75	1.38	7.5	4420	0.45	0.62	0.02	0.04	14.95	0.5	36	0.91	14.1
L840696		0.49	<0.005	0.22	0.29	1.8	4730	0.08	0.06	0.01	<0.02	1.44	0.1	8	0.33	2.0
L840697		0.31	<0.005	0.37	1.16	2.9	2490	0.29	0.22	0.01	0.03	11.65	0.4	30	0.77	21.6
L840698		0.27	<0.005	0.31	1.98	34.1	6930	0.40	0.30	0.02	0.15	15.15	6.2	29	0.38	47.7
L840699		0.09	<0.005	0.20	5.43	3.3	1310	1.04	0.23	0.04	0.20	22.4	24.7	133	3.34	91.3
L840700		0.28	<0.005	0.13	1.57	4.6	2070	0.35	0.15	0.01	0.87	16.05	9.2	14	0.88	30.3
M676301		0.21	<0.005	0.30	0.89	99.4	1070	0.63	0.08	0.01	0.28	14.10	7.0	48	2.16	112.0



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CERTIFICATE OF ANALYSIS WH12202862

Sample Description	Method Analyte Units LOR	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
L840695		1.90	4.69	0.06	0.8	0.016	0.25	7.6	17.3	0.06	29	2.17	0.01	2.6	4.8	380
L840696		0.23	0.91	<0.05	0.2	0.005	0.06	1.1	2.4	0.02	11	0.88	<0.01	0.6	0.7	110
L840697		4.14	3.12	0.11	0.8	0.008	0.20	6.3	18.1	0.03	39	2.31	0.01	1.8	4.5	450
L840698		2.78	3.38	0.07	0.7	0.032	0.28	6.8	21.1	0.03	190	3.89	<0.01	2.2	28.8	130
L840699		8.04	12.45	0.14	1.9	0.049	1.02	8.1	31.9	0.24	1540	1.22	0.02	2.7	70.6	340
L840700		2.39	3.41	0.08	0.6	0.028	0.21	5.2	16.9	0.04	2890	0.83	0.01	1.5	36.8	140
M676301		5.59	3.14	0.10	0.4	0.013	0.27	8.3	8.8	0.06	205	9.81	0.01	1.1	192.0	1130



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 Total # Pages: 2 (A - D)
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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202862

Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Pb ppm 0.1	ME- MS61 Fe ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.2	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
L840695		23.5	17.5	<0.002	0.12	2.35	4.0	3	0.6	50.3	0.18	<0.05	2.6	0.100	0.55	0.9
L840696		1.6	5.5	<0.002	0.05	0.58	0.7	2	<0.2	232	<0.05	<0.05	0.3	0.023	0.14	0.3
L840697		11.3	12.1	0.003	0.05	3.32	2.9	5	0.4	9.7	0.11	0.14	2.1	0.073	0.28	0.8
L840698		10.7	9.4	0.002	0.12	4.09	4.6	3	0.3	34.3	0.16	0.06	2.4	0.063	0.20	1.4
L840699		12.4	48.2	<0.002	0.01	1.75	27.8	2	1.2	12.8	0.18	0.07	1.5	0.606	0.28	0.6
L840700		7.8	8.9	<0.002	0.03	0.42	7.5	3	0.4	19.3	0.10	0.06	1.4	0.075	0.09	0.5
M676301		22.2	14.1	<0.002	0.01	9.48	3.9	2	0.3	28.5	0.06	<0.05	1.5	0.037	0.14	2.9



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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202862

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
L840695		66	0.5	3.6	9	31.5
L840696		16	0.2	1.0	2	6.4
L840697		36	0.3	4.7	34	34.5
L840698		28	0.4	5.5	152	27.2
L840699		191	0.9	16.7	116	63.2
L840700		50	0.7	6.9	253	26.0
M676301		25	0.8	9.7	239	16.9



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Page: Appendix 1
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CERTIFICATE OF ANALYSIS WH12202862

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.



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Page: 1
Finalized Date: 21- SEP- 2012
Account: RANSIL

CERTIFICATE WH12202866

Project: ROSE

P.O. No.:

This report is for 156 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- AUG-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

To: **SILVER RANGE RESOURCES LTD.**
ATTN: JOAN MARIACHER
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Account: RANSIL

Project: ROSE

CERTIFICATE OF ANALYSIS WH12202866

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ46701		0.28	0.007	0.22	0.88	6.4	<0.2	<10	580	0.38	0.24	0.10	0.23	33.1	9.7	18
ZZ46702		0.25	0.010	0.18	1.40	9.7	<0.2	<10	690	0.67	0.37	0.06	0.14	82.2	11.0	30
ZZ46703		0.24	0.005	0.35	1.01	8.2	<0.2	<10	830	0.36	0.27	0.06	0.19	30.2	10.3	26
ZZ46704		0.24	0.005	0.14	1.26	8.0	<0.2	<10	590	0.53	0.23	0.04	0.07	31.8	11.7	27
ZZ46705		0.28	0.014	0.16	0.94	8.2	<0.2	<10	620	0.36	0.22	0.03	0.19	36.6	9.8	26
ZZ46706		0.28	0.005	0.18	1.18	13.7	<0.2	<10	450	0.42	0.23	0.02	0.29	44.4	16.1	22
ZZ46707		0.23	0.021	0.10	1.06	12.7	<0.2	<10	470	0.30	0.34	0.08	0.20	50.0	18.9	24
ZZ46708		0.25	0.011	0.14	1.30	10.4	<0.2	<10	900	0.49	0.33	0.12	0.19	122.0	17.3	22
ZZ46709		0.23	0.016	0.23	0.97	9.7	<0.2	<10	660	0.39	0.24	0.07	0.31	50.6	11.7	22
ZZ46710		0.24	0.004	0.25	0.87	6.8	<0.2	<10	460	0.34	0.17	0.15	0.17	25.1	8.2	16
ZZ46711		0.26	0.005	0.26	1.09	10.8	<0.2	<10	410	0.36	0.26	0.03	0.19	34.9	9.9	23
ZZ46712		0.29	0.007	0.07	0.62	2.4	<0.2	<10	760	0.20	0.25	0.12	0.06	54.8	10.2	11
ZZ46713		0.24	0.005	0.07	1.04	8.9	<0.2	<10	930	0.34	0.24	0.10	0.19	48.7	13.3	24
ZZ46714		0.22	0.006	0.11	1.27	6.9	<0.2	<10	1330	0.42	0.28	0.16	0.16	56.3	16.0	28
ZZ46715		0.20	0.002	0.11	1.36	9.9	<0.2	<10	420	0.38	0.29	0.08	0.25	43.1	9.6	28
ZZ46716		0.19	0.002	0.11	1.19	7.3	<0.2	<10	210	0.24	0.30	0.05	0.19	35.0	7.4	25
ZZ46717		0.25	0.005	0.10	1.03	8.3	<0.2	<10	610	0.35	0.29	0.09	0.19	45.4	10.8	26
ZZ46718		0.25	0.003	0.20	0.70	4.9	<0.2	<10	320	0.24	0.21	0.03	0.34	44.2	6.8	16
ZZ46719		0.23	0.011	0.26	1.52	11.0	<0.2	<10	940	0.49	0.27	0.13	0.19	52.4	14.1	35
ZZ46720		0.31	0.006	0.14	1.70	8.2	<0.2	<10	3270	0.48	0.31	0.24	0.18	79.2	9.0	20
ZZ46721		0.24	0.009	0.12	1.27	12.2	<0.2	<10	540	0.36	0.21	0.10	0.33	42.7	8.7	28
ZZ46722		0.25	0.008	0.15	0.98	7.1	<0.2	<10	580	0.31	0.23	0.08	0.35	46.8	10.0	16
ZZ46723		0.19	<0.001	0.09	0.60	1.8	<0.2	<10	160	0.23	0.13	0.10	0.22	17.25	3.2	6
ZZ46724		0.25	0.010	0.09	1.35	14.8	<0.2	<10	490	0.41	0.29	0.12	0.31	29.1	8.1	28
ZZ46725		0.20	0.008	0.09	1.12	13.3	<0.2	<10	260	0.27	0.32	0.06	0.22	34.0	5.4	20
ZZ46726		0.22	0.002	0.09	0.84	6.3	<0.2	<10	330	0.23	0.29	0.07	0.14	48.4	8.8	15
ZZ46727		0.19	0.004	0.17	1.10	11.5	<0.2	<10	300	0.32	0.32	0.10	0.21	28.0	9.2	21
ZZ46728		0.28	0.010	0.12	0.95	7.0	<0.2	<10	350	0.25	0.28	0.04	0.12	33.5	10.3	17
ZZ46729		0.20	0.008	0.15	0.76	5.2	<0.2	<10	560	0.26	0.34	0.08	0.26	36.4	9.4	18
ZZ46730		0.24	0.007	0.27	1.23	20.7	<0.2	<10	380	0.42	0.31	0.06	0.28	37.8	10.8	29
ZZ46731		0.18	0.012	0.18	1.38	48.1	<0.2	<10	1600	0.46	0.31	0.11	0.31	34.9	13.0	33
ZZ46732		0.20	0.003	0.26	1.39	19.1	<0.2	<10	290	0.49	0.25	0.10	0.54	28.1	9.6	29
ZZ46733		0.18	0.003	0.27	1.60	14.9	<0.2	<10	180	0.40	0.23	0.09	0.47	25.6	8.1	36
ZZ46734		0.26	0.017	3.86	0.87	31.9	<0.2	<10	1420	0.37	0.52	0.16	1.11	45.8	3.5	20
ZZ46735		0.25	0.006	1.03	1.32	14.3	<0.2	<10	890	0.62	0.25	0.06	2.85	33.7	6.9	23
ZZ46736		0.24	0.020	0.16	1.54	6.1	<0.2	<10	3660	0.51	0.41	0.21	0.27	144.5	15.3	17
ZZ46737		0.26	0.024	0.34	0.53	7.5	<0.2	<10	2140	0.34	0.62	0.15	0.15	143.5	22.0	12
ZZ46738		0.27	0.004	0.05	0.46	6.9	<0.2	<10	1030	0.24	0.28	0.07	0.09	60.7	18.1	12
ZZ46739		0.22	0.006	0.09	0.91	5.4	<0.2	<10	360	0.13	0.24	0.04	0.07	21.7	3.8	20
ZZ46740		0.23	0.007	0.16	2.05	17.5	<0.2	<10	310	0.66	0.27	0.08	0.38	41.7	16.4	47



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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202866

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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ46701		4.97	36.2	1.64	3.55	0.06	<0.02	0.06	0.017	0.08	16.9	6.0	0.22	1370	1.61
ZZ46702		6.61	57.6	2.25	4.82	0.10	<0.02	0.10	0.023	0.10	48.4	10.8	0.36	1320	3.41
ZZ46703		1.89	34.8	2.35	4.77	<0.05	<0.02	0.15	0.021	0.09	14.6	6.1	0.22	1700	2.68
ZZ46704		1.26	53.0	2.38	4.48	0.05	<0.02	0.07	0.019	0.07	11.0	8.9	0.31	1670	1.78
ZZ46705		1.51	50.2	1.97	2.72	0.05	<0.02	0.06	0.018	0.06	15.3	8.1	0.32	1080	1.64
ZZ46706		1.11	67.6	2.18	3.53	0.05	0.04	0.05	0.018	0.06	15.9	10.1	0.43	1770	1.71
ZZ46707		1.33	71.1	2.49	3.54	0.06	0.03	0.04	0.019	0.08	16.9	8.4	0.44	2720	3.91
ZZ46708		1.32	107.5	2.95	4.18	0.07	0.05	0.10	0.026	0.11	30.6	10.8	0.39	3450	2.07
ZZ46709		1.00	59.2	2.26	3.44	0.05	0.02	0.05	0.021	0.08	19.8	8.3	0.33	1540	2.34
ZZ46710		1.11	38.3	1.85	3.75	0.05	<0.02	0.04	0.015	0.07	13.1	6.4	0.21	1190	3.71
ZZ46711		1.25	48.4	2.44	4.06	<0.05	<0.02	0.05	0.019	0.09	15.1	7.0	0.29	1280	9.14
ZZ46712		0.93	75.7	1.71	2.24	0.05	<0.02	0.03	0.011	0.07	16.9	5.3	0.27	1950	0.60
ZZ46713		1.56	92.4	2.68	3.89	0.05	<0.02	0.03	0.023	0.09	20.5	9.7	0.31	2340	1.64
ZZ46714		2.38	70.3	2.28	4.98	0.06	<0.02	0.06	0.022	0.09	24.1	9.7	0.39	3800	1.49
ZZ46715		1.30	56.8	2.87	5.77	0.05	<0.02	0.04	0.020	0.07	18.4	12.3	0.43	966	1.68
ZZ46716		1.38	44.7	2.66	5.14	<0.05	<0.02	0.07	0.018	0.07	9.9	8.8	0.30	1200	1.87
ZZ46717		1.56	60.7	2.75	4.20	0.06	<0.02	0.06	0.023	0.11	24.5	7.9	0.28	1900	2.20
ZZ46718		1.89	57.2	2.11	3.18	0.06	<0.02	0.04	0.018	0.10	20.5	4.0	0.14	1020	1.67
ZZ46719		2.85	85.8	2.81	5.76	0.12	0.02	0.08	0.025	0.13	42.9	13.7	0.53	1440	3.01
ZZ46720		2.79	43.2	2.65	4.88	0.06	0.05	0.06	0.028	0.11	29.7	12.5	0.49	2600	2.27
ZZ46721		1.76	34.9	2.84	5.84	<0.05	<0.02	0.03	0.020	0.07	14.9	12.4	0.35	842	2.02
ZZ46722		1.32	30.7	1.96	4.91	<0.05	<0.02	0.08	0.020	0.09	14.3	6.5	0.20	2130	2.42
ZZ46723		0.85	16.1	1.12	3.29	<0.05	<0.02	0.05	0.009	0.05	6.8	1.9	0.06	548	0.73
ZZ46724		2.95	29.8	3.06	5.60	<0.05	<0.02	0.07	0.023	0.10	12.1	16.0	0.40	598	2.65
ZZ46725		1.23	25.6	2.68	4.95	<0.05	<0.02	0.05	0.018	0.09	17.4	8.6	0.24	464	4.03
ZZ46726		1.62	26.9	2.02	4.20	0.05	<0.02	0.02	0.015	0.10	22.3	6.6	0.22	1550	1.95
ZZ46727		1.50	36.8	2.88	5.78	0.05	<0.02	0.07	0.018	0.10	13.2	10.2	0.20	993	2.15
ZZ46728		1.46	49.0	2.21	3.91	0.05	<0.02	0.05	0.016	0.09	15.5	8.8	0.20	1760	1.48
ZZ46729		1.71	55.4	2.29	3.57	0.05	<0.02	0.03	0.016	0.09	16.7	4.3	0.10	3910	1.92
ZZ46730		1.38	41.8	3.02	5.36	0.05	<0.02	0.07	0.024	0.07	18.8	12.6	0.34	1310	22.8
ZZ46731		2.57	108.5	2.87	5.52	0.05	<0.02	0.12	0.025	0.11	17.2	13.2	0.37	1330	3.97
ZZ46732		1.87	50.2	2.94	5.52	<0.05	<0.02	0.07	0.021	0.08	13.0	16.9	0.35	584	3.76
ZZ46733		1.58	25.3	3.07	5.44	<0.05	<0.02	0.06	0.020	0.08	12.5	14.9	0.46	361	1.97
ZZ46734		1.91	47.6	2.13	3.04	0.10	0.02	0.20	0.054	0.15	24.0	5.6	0.16	243	29.0
ZZ46735		1.64	91.6	2.14	3.75	0.06	<0.02	0.13	0.028	0.08	16.4	4.7	0.11	398	5.96
ZZ46736		3.43	69.2	2.28	4.72	0.10	0.05	0.10	0.023	0.12	47.3	10.9	0.50	4030	1.12
ZZ46737		2.00	563	2.52	2.71	0.21	0.10	0.14	0.026	0.10	100.5	4.9	0.20	6210	0.97
ZZ46738		2.24	102.5	2.29	2.01	0.09	0.04	0.05	0.016	0.07	26.3	3.8	0.12	3330	0.82
ZZ46739		1.25	26.0	1.73	5.02	0.05	<0.02	0.06	0.014	0.06	10.2	3.4	0.16	456	1.34
ZZ46740		2.08	39.8	3.07	5.07	0.07	0.09	0.05	0.039	0.08	18.5	21.4	0.66	897	2.52



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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	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
ZZ46701		0.34	16.5	680	23.5	7.9	<0.001	0.04	0.49	1.0	0.3	0.3	16.5	<0.01	0.06
ZZ46702		0.45	23.8	690	32.0	10.1	<0.001	0.05	0.69	1.4	1.1	0.5	11.8	<0.01	0.08
ZZ46703		0.31	18.8	840	19.4	10.5	<0.001	0.07	0.77	0.8	0.5	0.5	13.4	<0.01	0.07
ZZ46704		0.29	19.1	910	21.0	9.1	<0.001	0.06	0.64	0.9	0.5	0.4	8.2	<0.01	0.06
ZZ46705		0.27	27.8	440	18.1	5.7	<0.001	0.03	0.75	1.0	0.7	0.3	9.7	<0.01	0.03
ZZ46706		0.24	29.3	530	27.9	6.1	<0.001	0.03	0.72	1.1	0.6	0.2	7.7	<0.01	0.08
ZZ46707		0.23	34.1	720	29.4	5.5	<0.001	0.03	0.73	1.8	0.9	0.2	19.6	<0.01	0.09
ZZ46708		0.15	32.5	800	42.4	8.3	<0.001	0.04	0.61	2.4	0.8	0.3	22.8	<0.01	0.06
ZZ46709		0.44	29.4	670	23.4	6.2	<0.001	0.04	1.08	1.3	0.9	0.3	19.2	<0.01	0.07
ZZ46710		0.20	15.2	810	13.6	7.9	<0.001	0.03	0.56	0.7	0.8	0.3	20.6	<0.01	0.03
ZZ46711		0.31	22.8	650	19.6	10.2	<0.001	0.03	0.92	0.7	0.7	0.3	9.9	<0.01	0.08
ZZ46712		0.06	25.4	350	19.5	4.0	<0.001	0.01	0.20	1.6	0.3	0.2	18.1	<0.01	0.09
ZZ46713		0.21	32.8	730	17.6	7.2	<0.001	0.03	0.53	1.6	0.6	0.3	17.5	<0.01	0.07
ZZ46714		0.30	28.6	750	26.3	11.9	<0.001	0.03	0.53	2.0	0.8	0.4	23.4	<0.01	0.06
ZZ46715		0.49	24.1	600	23.7	8.5	<0.001	0.03	0.77	1.0	0.5	0.5	10.3	<0.01	0.06
ZZ46716		0.51	18.1	690	21.4	10.1	<0.001	0.04	0.73	1.1	0.6	0.5	7.2	<0.01	0.08
ZZ46717		0.33	26.1	770	20.4	9.1	<0.001	0.03	0.83	1.1	0.9	0.4	15.6	<0.01	0.06
ZZ46718		0.26	17.9	670	12.6	9.5	<0.001	0.02	0.50	1.0	0.2	0.4	8.2	<0.01	0.07
ZZ46719		0.36	35.1	700	19.1	10.3	<0.001	0.03	1.12	1.8	1.6	0.5	26.9	<0.01	0.06
ZZ46720		0.27	20.5	550	43.8	7.3	<0.001	0.04	0.69	1.7	0.6	0.4	40.3	<0.01	0.04
ZZ46721		0.57	20.6	530	14.8	8.8	<0.001	0.03	0.89	1.3	0.7	0.6	13.9	<0.01	0.03
ZZ46722		0.39	14.0	670	22.4	11.2	<0.001	0.04	0.68	0.9	0.7	0.5	14.4	<0.01	0.05
ZZ46723		0.34	4.9	650	20.7	5.7	<0.001	0.03	0.24	0.3	<0.2	0.3	8.4	<0.01	0.03
ZZ46724		0.94	24.1	520	18.5	12.1	0.001	0.04	0.94	1.6	0.4	0.6	16.2	<0.01	0.05
ZZ46725		0.67	17.9	570	19.4	13.3	<0.001	0.02	0.83	1.0	0.2	0.5	11.5	<0.01	0.07
ZZ46726		0.62	13.5	540	19.8	9.8	<0.001	0.02	0.47	1.0	<0.2	0.5	9.7	<0.01	0.06
ZZ46727		0.93	16.7	600	25.1	11.5	<0.001	0.04	0.66	1.4	0.3	0.7	9.7	<0.01	0.08
ZZ46728		0.54	21.1	480	21.5	9.1	<0.001	0.03	0.63	1.3	0.3	0.5	6.2	<0.01	0.07
ZZ46729		0.15	23.7	790	16.8	10.0	<0.001	0.05	0.53	0.3	0.4	0.4	13.5	<0.01	0.11
ZZ46730		0.56	28.4	610	18.7	8.2	<0.001	0.03	1.06	1.1	0.8	0.6	11.8	<0.01	0.09
ZZ46731		0.36	37.8	910	17.3	11.8	<0.001	0.04	1.35	1.1	0.8	0.5	28.5	<0.01	0.09
ZZ46732		1.23	28.3	520	15.8	10.4	<0.001	0.03	1.07	1.9	0.2	0.6	16.5	<0.01	0.08
ZZ46733		1.19	22.0	760	14.5	10.7	<0.001	0.03	1.00	1.8	0.7	0.5	14.6	<0.01	0.03
ZZ46734		0.26	14.0	4100	58.2	8.8	0.002	0.26	8.48	1.8	10.4	0.6	132.0	<0.01	0.18
ZZ46735		0.17	22.0	2940	18.4	10.8	<0.001	0.10	2.23	0.2	2.6	0.5	44.0	<0.01	0.08
ZZ46736		0.28	21.3	820	78.8	8.0	<0.001	0.05	0.57	1.9	0.7	0.4	38.9	<0.01	0.08
ZZ46737		0.11	42.3	670	73.5	5.3	0.001	0.03	0.60	5.5	1.7	0.2	46.8	0.02	0.19
ZZ46738		0.11	35.5	520	26.1	4.7	<0.001	0.02	0.18	2.8	0.6	0.2	13.8	0.01	0.08
ZZ46739		0.34	11.0	580	15.8	9.5	<0.001	0.04	0.45	0.7	0.5	0.4	6.8	<0.01	0.06
ZZ46740		1.03	40.4	580	29.8	10.6	<0.001	0.03	1.41	3.6	1.0	0.4	12.7	<0.01	0.07



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ46701		0.019	0.10	0.72	25	0.18	5.44	50	<0.5
ZZ46702		0.023	0.16	1.39	35	0.23	11.80	62	<0.5
ZZ46703		0.020	0.11	0.70	39	0.19	4.24	46	<0.5
ZZ46704		0.012	0.10	0.83	33	0.17	5.22	42	<0.5
ZZ46705		0.013	0.09	0.61	22	0.14	4.85	60	<0.5
ZZ46706		0.009	0.09	0.55	23	0.13	5.85	63	0.8
ZZ46707		0.009	0.09	0.63	23	0.15	6.98	81	1.0
ZZ46708		0.006	0.13	0.90	26	0.13	12.20	93	1.2
ZZ46709		0.018	0.09	0.66	29	0.18	6.04	68	0.6
ZZ46710		0.021	0.09	0.74	36	0.13	4.51	51	<0.5
ZZ46711		0.010	0.14	0.68	33	0.87	3.62	59	<0.5
ZZ46712		<0.005	0.03	0.48	12	0.06	6.44	52	0.5
ZZ46713		0.010	0.06	0.85	33	0.13	7.71	85	<0.5
ZZ46714		0.011	0.12	0.82	33	0.15	9.05	64	<0.5
ZZ46715		0.027	0.10	0.65	45	0.29	5.52	62	<0.5
ZZ46716		0.022	0.10	0.53	39	0.18	3.35	56	<0.5
ZZ46717		0.015	0.08	0.97	36	0.16	8.64	77	<0.5
ZZ46718		0.010	0.06	0.92	24	0.14	5.65	60	<0.5
ZZ46719		0.014	0.14	1.19	47	0.16	23.5	89	<0.5
ZZ46720		0.006	0.11	0.87	26	0.12	7.61	95	1.2
ZZ46721		0.030	0.12	0.58	47	0.22	4.44	72	<0.5
ZZ46722		0.022	0.13	0.71	34	0.21	4.77	57	0.6
ZZ46723		0.030	0.05	0.52	27	0.11	1.70	23	<0.5
ZZ46724		0.042	0.13	0.69	50	0.30	3.01	94	<0.5
ZZ46725		0.028	0.13	0.66	44	0.22	2.53	77	<0.5
ZZ46726		0.033	0.07	0.73	33	0.20	3.53	48	<0.5
ZZ46727		0.027	0.12	0.62	41	0.24	2.28	58	<0.5
ZZ46728		0.024	0.10	0.93	30	0.20	5.18	53	<0.5
ZZ46729		0.010	0.09	0.57	29	0.14	3.23	74	<0.5
ZZ46730		0.030	0.22	0.85	44	0.25	3.71	78	<0.5
ZZ46731		0.015	0.14	1.05	47	0.19	8.89	101	<0.5
ZZ46732		0.038	0.17	0.66	47	0.30	3.32	89	<0.5
ZZ46733		0.042	0.15	0.88	53	0.36	3.11	78	<0.5
ZZ46734		0.011	1.61	8.98	69	0.17	20.2	47	<0.5
ZZ46735		<0.005	0.23	4.03	40	0.16	14.40	80	<0.5
ZZ46736		0.011	0.09	0.81	24	0.22	14.95	63	1.5
ZZ46737		<0.005	0.11	1.45	24	0.15	44.2	90	0.8
ZZ46738		<0.005	0.06	1.60	20	0.09	12.15	82	0.5
ZZ46739		0.015	0.13	0.43	39	0.17	2.35	38	<0.5
ZZ46740		0.024	0.19	0.72	42	0.24	5.33	95	3.1



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ46741		0.31	0.004	0.13	1.57	16.7	<0.2	<10	320	0.46	0.28	0.06	0.36	36.8	14.8	54
ZZ46742		0.33	0.008	0.15	1.31	12.4	<0.2	<10	500	0.53	0.23	0.09	0.49	45.7	16.2	34
ZZ46743		0.30	0.007	0.11	1.29	15.4	<0.2	<10	270	0.38	0.26	0.07	0.29	37.9	14.5	42
ZZ46744		0.26	0.001	0.30	0.98	10.1	<0.2	<10	640	0.26	0.28	0.13	0.20	27.3	4.8	23
ZZ46745		0.27	0.001	0.07	0.76	9.3	<0.2	<10	350	0.44	0.43	0.07	0.31	112.0	9.3	14
ZZ46746		0.25	0.004	0.22	1.23	12.9	<0.2	<10	600	0.41	0.31	0.09	0.36	42.9	14.4	37
ZZ45983		0.30	0.012	0.07	2.19	8.5	<0.2	<10	780	0.55	0.01	8.25	0.06	12.70	38.7	86
ZZ45984		0.26	0.004	0.07	1.75	1.6	<0.2	<10	2520	0.58	0.02	2.38	0.17	11.70	36.7	74
ZZ45985		0.27	0.002	0.11	2.23	6.6	<0.2	<10	1050	0.66	0.19	0.16	0.35	26.6	27.8	74
ZZ45986		0.28	0.004	0.06	1.19	1.9	<0.2	<10	1850	1.07	0.18	0.48	0.14	49.9	23.6	44
ZZ45987		0.29	0.014	1.38	1.01	15.8	<0.2	<10	950	0.52	0.28	0.03	0.14	36.0	8.8	39
ZZ45988		Not Recvd														
ZZ45989		Not Recvd														
ZZ45313		0.26	0.005	0.15	1.14	14.6	<0.2	<10	350	0.55	0.31	0.14	0.31	28.4	11.1	25
ZZ45314		0.29	0.021	1.28	0.48	37.2	<0.2	<10	430	0.54	0.31	0.23	1.52	36.4	16.1	11
ZZ45315		0.28	0.008	0.98	0.67	17.1	<0.2	<10	530	0.40	0.27	0.41	1.23	25.2	16.6	19
ZZ45316		0.30	0.008	0.98	0.93	20.2	<0.2	<10	740	0.51	0.28	0.34	0.63	27.9	13.6	27
ZZ45317		0.39	0.013	1.26	1.14	22.6	<0.2	<10	750	0.56	0.38	0.25	0.53	32.8	17.1	36
ZZ45318		0.27	0.005	0.34	0.58	24.7	<0.2	<10	190	0.31	0.25	0.07	0.42	20.4	7.9	17
ZZ45319		0.40	0.009	0.70	0.70	15.1	<0.2	<10	520	0.35	0.17	0.28	1.11	28.7	12.2	24
ZZ45320		0.39	0.006	0.17	0.92	11.2	<0.2	<10	460	0.33	0.16	0.30	0.27	30.1	9.8	28
ZZ45321		0.21	0.006	0.20	1.44	11.1	<0.2	<10	1290	0.51	0.21	0.27	0.23	29.0	17.2	46
ZZ45322		0.27	0.007	0.49	1.19	8.5	<0.2	<10	1830	0.64	0.18	0.88	0.51	35.7	20.4	63
ZZ45323		0.28	0.004	0.29	1.23	9.7	<0.2	<10	1110	0.49	0.19	0.38	0.37	35.5	15.8	56
ZZ45324		0.26	0.007	0.15	0.97	8.4	<0.2	<10	960	0.36	0.16	0.26	0.17	24.5	9.1	40
ZZ45325		0.24	0.005	0.19	0.77	7.5	<0.2	<10	870	0.32	0.20	0.35	0.18	17.15	8.9	21
ZZ45326		0.24	0.010	0.21	0.89	16.5	<0.2	<10	1110	0.45	0.23	0.24	0.13	30.7	14.6	27
ZZ45327		0.16	0.001	0.03	0.39	0.5	<0.2	<10	130	0.08	0.03	0.14	0.02	4.45	1.4	2
ZZ45328		0.26	0.006	0.12	0.93	5.6	<0.2	<10	400	0.32	0.20	0.09	0.10	20.6	9.3	19
ZZ45329		0.23	0.001	0.09	0.54	3.5	<0.2	<10	200	0.13	0.13	0.05	0.07	10.40	4.0	13
ZZ45330		0.19	0.003	0.14	1.47	7.6	<0.2	<10	1030	0.42	0.20	0.48	0.16	22.0	9.6	31
ZZ45331		0.24	0.004	0.11	0.94	4.7	<0.2	<10	340	0.31	0.21	0.04	0.11	20.2	9.9	22
ZZ45332		0.15	0.005	0.20	1.56	8.9	<0.2	<10	660	0.56	0.29	0.14	0.18	29.8	11.9	32
ZZ45333		0.28	0.003	0.20	1.34	8.7	<0.2	<10	650	0.40	0.22	0.17	0.17	27.5	10.3	31
ZZ45334		0.25	0.007	0.16	1.78	10.8	<0.2	<10	530	0.64	0.31	0.14	0.25	37.9	14.5	38
ZZ45335		0.27	0.003	0.07	1.09	4.5	<0.2	<10	260	0.31	0.21	0.09	0.12	22.6	9.6	19
ZZ45336		0.34	0.013	0.16	0.47	10.3	<0.2	<10	820	0.37	0.41	0.16	0.09	37.9	17.9	16
ZZ45337		0.35	0.006	0.08	0.78	5.7	<0.2	<10	600	0.37	0.34	0.03	0.11	47.5	14.8	23
ZZ45338		0.32	0.005	0.03	0.36	2.3	<0.2	<10	440	0.30	0.30	0.03	0.03	33.7	18.9	18
ZZ45339		0.30	0.006	0.06	0.48	7.0	<0.2	<10	310	0.24	0.27	0.04	0.10	30.7	12.1	17



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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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ46741		1.81	36.5	3.29	5.54	0.08	<0.02	0.06	0.033	0.09	18.2	17.0	0.70	1180	2.68
ZZ46742		1.15	70.7	2.77	3.96	0.09	0.04	0.03	0.028	0.08	22.5	12.8	0.54	1450	2.96
ZZ46743		1.26	53.2	2.83	4.06	0.07	0.02	0.04	0.026	0.08	19.5	14.6	0.54	1420	2.38
ZZ46744		1.40	28.2	2.07	5.39	0.07	0.02	0.05	0.019	0.07	18.9	6.4	0.23	340	1.71
ZZ46745		1.83	54.3	2.19	2.64	0.12	0.03	0.06	0.033	0.10	68.3	6.8	0.17	1760	1.66
ZZ46746		1.60	41.8	2.50	5.17	0.08	0.02	0.08	0.028	0.10	22.8	11.6	0.39	2620	2.75
ZZ45983		3.14	98.3	6.87	7.57	0.10	0.05	0.14	0.075	0.11	4.6	22.7	1.35	4220	0.47
ZZ45984		2.81	78.5	6.65	5.63	0.11	0.09	0.10	0.078	0.07	3.9	14.7	1.08	2240	0.30
ZZ45985		2.09	64.2	5.23	7.37	0.09	0.03	0.05	0.058	0.08	11.0	18.9	0.82	2570	1.07
ZZ45986		8.00	153.5	5.49	6.22	0.15	0.10	0.05	0.084	0.03	25.2	5.0	0.38	4620	0.61
ZZ45987		0.96	37.5	3.32	3.63	0.08	0.02	0.21	0.029	0.05	19.5	7.3	0.42	211	4.79
ZZ45988															
ZZ45989															
ZZ45313		1.44	43.4	2.85	4.28	0.07	0.02	0.03	0.027	0.07	15.7	10.3	0.32	710	4.98
ZZ45314		1.46	98.1	3.48	1.45	0.09	0.05	0.10	0.034	0.09	19.3	3.7	0.11	818	10.85
ZZ45315		2.37	58.4	2.19	2.60	0.06	0.04	0.12	0.031	0.06	13.3	4.4	0.18	1840	6.05
ZZ45316		1.61	52.9	2.61	3.37	0.07	0.04	0.11	0.034	0.07	16.5	8.5	0.29	1090	4.35
ZZ45317		4.21	83.3	3.34	4.47	0.08	0.03	0.13	0.042	0.09	16.7	12.2	0.41	1630	5.78
ZZ45318		1.74	50.8	2.24	2.78	0.06	<0.02	0.03	0.026	0.06	11.4	3.3	0.11	499	10.25
ZZ45319		1.29	54.2	2.46	2.60	0.07	0.03	0.07	0.025	0.06	15.5	6.5	0.29	720	7.16
ZZ45320		1.54	46.2	2.45	3.24	0.06	0.03	0.04	0.021	0.06	16.4	9.7	0.43	648	1.77
ZZ45321		2.68	52.0	3.34	5.31	0.07	0.04	0.05	0.038	0.06	14.7	13.4	0.63	1940	2.04
ZZ45322		2.95	57.8	4.29	4.24	0.09	0.10	0.11	0.042	0.09	20.9	10.1	0.68	783	3.36
ZZ45323		1.86	53.6	3.61	4.41	0.08	0.06	0.05	0.038	0.08	19.7	13.5	0.68	637	2.57
ZZ45324		1.72	29.9	2.29	3.49	0.05	0.04	0.03	0.027	0.07	13.4	7.9	0.36	543	1.30
ZZ45325		1.32	34.1	2.20	2.91	<0.05	0.06	0.04	0.024	0.09	9.9	5.6	0.24	411	1.79
ZZ45326		2.16	52.4	3.50	2.65	0.08	0.07	0.03	0.039	0.08	18.0	5.8	0.22	631	1.66
ZZ45327		0.27	5.9	0.39	1.52	<0.05	<0.02	0.01	<0.005	0.02	2.3	0.7	0.04	105	0.19
ZZ45328		2.95	51.1	1.93	3.85	<0.05	<0.02	0.04	0.019	0.05	9.8	6.3	0.21	1400	1.70
ZZ45329		1.08	15.9	1.21	3.10	<0.05	<0.02	0.03	0.011	0.04	5.3	3.6	0.12	380	0.82
ZZ45330		2.10	28.9	2.43	5.41	<0.05	<0.02	0.03	0.025	0.06	12.4	13.3	0.48	658	1.15
ZZ45331		2.06	42.3	1.98	4.34	<0.05	<0.02	0.06	0.020	0.05	10.2	5.3	0.15	1020	1.58
ZZ45332		3.47	53.6	2.58	5.80	0.06	0.02	0.09	0.030	0.07	15.9	11.9	0.34	1340	2.31
ZZ45333		2.39	36.8	2.40	5.13	0.06	0.02	0.05	0.027	0.07	14.3	11.0	0.41	954	1.47
ZZ45334		2.82	87.8	3.11	6.29	0.06	<0.02	0.05	0.032	0.07	16.3	17.5	0.58	1080	2.37
ZZ45335		1.96	65.8	1.99	4.48	<0.05	<0.02	0.03	0.018	0.05	9.4	8.4	0.29	887	1.64
ZZ45336		1.17	149.0	2.58	1.92	0.06	<0.02	0.04	0.032	0.05	14.6	4.7	0.17	1700	2.08
ZZ45337		1.29	149.0	2.51	3.00	0.05	0.03	0.04	0.025	0.05	17.9	8.6	0.32	1580	2.36
ZZ45338		0.56	126.5	2.43	1.58	<0.05	<0.02	0.03	0.020	0.04	10.3	2.3	0.13	705	1.29
ZZ45339		0.78	110.5	2.26	2.11	<0.05	<0.02	0.03	0.022	0.05	11.2	3.1	0.16	1170	2.41



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
ZZ46741		0.47	39.6	680	35.4	11.0	<0.001	0.04	1.35	1.8	0.8	0.4	12.0	<0.01	0.06
ZZ46742		0.35	46.4	700	19.2	7.9	<0.001	0.04	1.73	2.9	1.3	0.2	30.1	<0.01	0.07
ZZ46743		0.37	37.8	680	29.4	7.8	<0.001	0.04	1.18	1.6	0.9	0.3	19.5	<0.01	0.07
ZZ46744		0.78	14.5	530	13.3	9.2	<0.001	0.03	0.62	1.5	0.6	0.6	19.8	<0.01	0.04
ZZ46745		0.20	19.8	830	38.5	10.2	<0.001	0.03	0.48	1.3	0.7	0.3	14.4	<0.01	0.09
ZZ46746		0.31	27.1	980	32.1	11.7	<0.001	0.06	0.94	1.2	0.9	0.5	16.6	<0.01	0.07
ZZ45983		0.08	77.4	810	4.2	6.4	<0.001	<0.01	0.82	29.8	0.6	0.2	85.0	0.01	0.03
ZZ45984		0.12	66.6	680	3.6	5.0	<0.001	0.03	0.61	37.6	0.7	0.2	116.0	0.01	0.04
ZZ45985		0.42	55.1	1190	11.7	9.3	<0.001	0.03	0.51	11.0	0.8	0.4	14.7	0.01	0.05
ZZ45986		0.16	33.9	980	17.5	3.9	0.001	0.01	0.20	17.6	0.9	0.9	21.9	0.01	0.08
ZZ45987		0.33	34.2	720	33.9	5.7	<0.001	0.07	3.43	2.5	2.6	0.4	64.9	<0.01	0.06
ZZ45988															
ZZ45989															
ZZ45313		0.38	30.7	850	19.2	10.6	<0.001	0.06	2.67	1.6	1.0	0.4	35.8	<0.01	0.11
ZZ45314		0.17	78.5	1040	20.6	5.3	0.002	0.09	7.93	3.7	3.0	0.2	59.8	0.01	0.12
ZZ45315		0.35	39.1	1170	20.2	9.9	0.001	0.07	4.60	3.0	1.9	0.3	45.2	0.01	0.09
ZZ45316		0.44	38.2	1170	19.1	9.9	0.001	0.07	3.82	3.3	2.1	0.4	47.3	0.01	0.09
ZZ45317		0.48	62.2	990	25.5	12.0	0.001	0.05	6.82	4.2	1.9	0.5	38.0	<0.01	0.12
ZZ45318		0.10	37.9	970	14.4	8.4	0.001	0.05	7.69	0.5	2.0	0.3	32.5	<0.01	0.09
ZZ45319		0.46	42.2	1030	13.2	5.7	0.001	0.04	4.32	3.4	2.2	0.3	51.1	<0.01	0.06
ZZ45320		0.50	30.4	1020	8.6	6.2	0.001	0.02	1.13	4.3	0.8	0.3	27.4	<0.01	0.04
ZZ45321		0.62	42.6	1080	13.0	10.5	<0.001	0.05	1.68	5.0	0.9	0.5	37.9	<0.01	0.06
ZZ45322		0.56	71.8	1410	11.0	8.5	0.001	0.06	2.22	8.5	1.6	0.4	110.5	0.01	0.06
ZZ45323		0.66	61.6	1090	11.0	8.2	<0.001	0.03	1.54	6.4	1.0	0.4	49.6	<0.01	0.06
ZZ45324		0.40	29.6	1070	9.4	9.9	<0.001	0.07	1.28	2.2	0.7	0.3	36.2	<0.01	0.05
ZZ45325		0.43	27.5	700	10.3	10.5	<0.001	0.06	1.69	3.1	0.7	0.3	76.2	<0.01	0.05
ZZ45326		0.40	43.8	970	10.9	9.2	<0.001	0.05	3.02	5.5	1.0	0.3	52.4	0.01	0.06
ZZ45327		0.15	1.7	580	1.0	1.2	<0.001	0.03	<0.05	0.2	0.2	<0.2	12.5	<0.01	0.01
ZZ45328		0.27	19.5	700	13.2	7.5	<0.001	0.04	0.58	1.2	0.4	0.3	15.7	<0.01	0.06
ZZ45329		0.22	8.0	450	5.8	4.8	<0.001	0.03	0.29	0.6	0.3	0.3	7.9	<0.01	0.03
ZZ45330		0.65	22.9	940	9.7	10.4	<0.001	0.05	0.51	2.4	0.6	0.5	32.2	<0.01	0.04
ZZ45331		0.19	18.4	680	10.4	8.7	<0.001	0.03	0.66	0.9	0.5	0.4	11.1	<0.01	0.04
ZZ45332		0.46	28.2	910	14.1	13.2	<0.001	0.04	0.97	1.7	0.8	0.6	18.5	<0.01	0.06
ZZ45333		0.44	24.3	810	12.0	9.9	<0.001	0.04	0.74	1.7	0.7	0.5	17.2	<0.01	0.04
ZZ45334		0.50	41.3	940	17.0	12.7	<0.001	0.04	0.97	2.4	0.4	0.5	17.9	<0.01	0.05
ZZ45335		0.26	20.5	740	12.9	7.5	<0.001	0.04	0.53	1.0	0.2	0.3	10.4	<0.01	0.03
ZZ45336		0.07	39.9	730	23.6	3.8	<0.001	0.02	0.99	3.3	0.5	0.2	42.6	<0.01	0.14
ZZ45337		0.09	45.5	440	16.8	4.2	<0.001	0.03	0.83	2.5	0.7	0.2	16.6	<0.01	0.09
ZZ45338		0.08	37.0	280	14.7	3.4	<0.001	0.03	0.83	2.2	0.5	0.2	14.7	<0.01	0.06
ZZ45339		0.08	37.5	470	12.1	4.3	<0.001	0.03	0.73	1.9	0.3	0.2	14.0	<0.01	0.07



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ46741		0.026	0.14	0.70	51	0.19	4.36	105	<0.5
ZZ46742		0.012	0.19	0.93	45	0.13	6.70	117	0.8
ZZ46743		0.013	0.14	0.78	40	0.17	5.56	102	<0.5
ZZ46744		0.042	0.12	0.84	49	0.28	8.39	48	<0.5
ZZ46745		0.009	0.13	1.58	18	0.17	10.05	107	<0.5
ZZ46746		0.021	0.16	1.25	46	0.22	6.18	89	<0.5
ZZ45983		<0.005	0.09	0.07	126	0.09	24.0	100	0.5
ZZ45984		0.006	0.07	0.09	131	0.06	28.5	83	1.3
ZZ45985		0.019	0.13	0.83	119	0.16	10.85	104	<0.5
ZZ45986		0.013	0.08	0.62	126	0.14	29.9	87	1.7
ZZ45987		0.012	0.69	0.74	37	0.09	4.85	47	<0.5
ZZ45988									
ZZ45989									
ZZ45313		0.020	0.16	1.42	43	0.23	7.34	108	<0.5
ZZ45314		0.006	0.27	2.51	30	0.08	15.10	433	1.7
ZZ45315		0.010	0.25	1.71	33	0.11	10.70	163	0.7
ZZ45316		0.014	0.21	1.62	35	0.28	12.25	159	0.7
ZZ45317		0.017	0.24	1.33	43	0.14	9.05	237	<0.5
ZZ45318		0.006	0.24	1.12	48	0.29	3.87	177	<0.5
ZZ45319		0.022	0.22	1.61	40	0.23	8.79	212	0.7
ZZ45320		0.036	0.10	0.98	44	0.26	10.25	84	<0.5
ZZ45321		0.024	0.17	0.86	57	0.17	7.30	99	0.9
ZZ45322		0.017	0.18	1.09	64	0.14	14.85	139	2.7
ZZ45323		0.027	0.14	0.99	58	0.33	9.60	137	1.7
ZZ45324		0.016	0.12	0.62	39	0.11	5.85	66	0.8
ZZ45325		0.014	0.16	0.64	30	0.14	4.39	79	2.1
ZZ45326		0.011	0.15	0.77	33	0.11	11.30	89	1.9
ZZ45327		0.014	0.02	0.18	10	<0.05	1.59	7	<0.5
ZZ45328		0.024	0.07	0.61	34	0.15	3.81	59	<0.5
ZZ45329		0.025	0.06	0.38	29	0.24	1.55	29	<0.5
ZZ45330		0.039	0.11	0.76	51	0.21	7.50	62	<0.5
ZZ45331		0.018	0.11	0.70	37	0.13	4.29	50	<0.5
ZZ45332		0.026	0.14	1.11	47	0.23	7.72	74	<0.5
ZZ45333		0.032	0.13	0.87	44	0.23	8.21	62	<0.5
ZZ45334		0.025	0.14	0.96	51	0.23	6.47	99	<0.5
ZZ45335		0.021	0.08	0.61	32	0.14	2.99	59	<0.5
ZZ45336		<0.005	0.08	0.79	24	<0.05	10.25	110	<0.5
ZZ45337		<0.005	0.04	0.67	23	0.05	4.12	104	0.8
ZZ45338		0.005	0.03	0.56	17	0.06	3.47	86	0.5
ZZ45339		<0.005	0.05	0.53	21	<0.05	2.52	96	<0.5



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CERTIFICATE OF ANALYSIS WH12202866

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ45340		0.36	0.007	0.05	0.89	3.7	<0.2	<10	620	0.35	0.29	0.04	0.09	43.3	12.4	21
ZZ45341		0.28	0.004	0.13	0.89	7.5	<0.2	<10	750	0.48	0.28	0.12	0.14	37.4	14.2	20
ZZ45342		0.25	0.003	0.07	1.03	5.5	<0.2	<10	440	0.51	0.31	0.07	0.18	44.0	16.3	27
ZZ45343		0.28	0.001	0.07	0.76	1.8	<0.2	<10	500	0.29	0.17	0.17	0.04	20.5	7.0	14
ZZ45344		0.23	0.005	0.06	1.02	3.3	<0.2	<10	520	0.32	0.25	0.11	0.09	41.5	12.5	22
ZZ45345		0.25	0.002	0.03	0.43	0.7	<0.2	<10	190	0.16	0.13	0.04	0.05	16.25	6.6	9
ZZ45346		0.29	0.002	0.11	1.01	11.0	<0.2	<10	410	0.48	0.34	0.08	0.24	38.5	15.4	23
ZZ45347		0.23	0.011	0.13	1.31	9.9	<0.2	<10	730	0.56	0.30	0.11	0.22	41.4	17.2	32
ZZ45348		0.22	<0.001	0.08	0.40	1.0	<0.2	<10	240	0.13	0.07	0.11	0.05	8.44	5.1	5
ZZ45349		0.31	0.013	1.72	0.45	13.9	<0.2	<10	500	0.36	0.34	0.24	4.23	24.1	23.7	13
ZZ45350		0.18	0.008	1.37	0.79	13.2	<0.2	<10	640	0.31	0.25	0.12	0.87	22.3	6.1	17
ZZ45351		0.31	0.007	2.39	0.56	10.6	<0.2	<10	780	0.32	0.26	0.16	1.38	27.4	12.2	18
ZZ45352		0.29	0.007	0.95	0.78	13.6	<0.2	<10	1000	0.47	0.34	0.13	0.41	37.3	17.9	18
ZZ45353		0.29	0.005	1.15	0.89	6.7	<0.2	<10	1500	0.35	0.35	0.22	0.50	34.0	20.1	20
ZZ45354		0.23	0.006	0.28	1.14	7.6	<0.2	<10	1360	0.55	0.27	0.18	0.31	32.3	11.2	24
ZZ45355		0.23	0.012	0.76	1.06	8.7	<0.2	<10	2470	0.42	0.31	0.22	0.18	27.5	15.4	29
ZZ45356		0.30	0.009	0.69	0.86	16.2	<0.2	<10	770	0.49	0.39	0.11	0.96	35.0	13.9	24
ZZ45357		0.23	0.007	0.56	0.52	11.3	<0.2	<10	760	0.27	0.29	0.11	0.36	15.80	9.1	18
ZZ45358		0.21	0.001	0.19	0.34	2.4	<0.2	<10	80	0.05	0.11	0.02	0.04	15.95	2.3	7
ZZ45359		0.32	0.007	0.35	1.64	11.7	<0.2	<10	510	0.72	0.35	0.10	0.27	39.8	16.9	39
ZZ45360		0.27	0.020	0.74	0.52	18.2	<0.2	<10	730	0.40	0.37	0.11	0.81	37.2	23.3	21
ZZ45361		0.23	0.010	0.29	0.78	7.3	<0.2	<10	430	0.25	0.26	0.04	0.15	25.5	10.4	26
ZZ45362		0.28	0.029	1.32	0.43	20.7	<0.2	<10	1180	0.51	0.38	0.16	4.20	46.3	43.4	15
ZZ45363		0.25	0.002	0.28	0.57	1.9	<0.2	<10	370	0.16	0.07	0.04	0.26	8.77	3.8	10
ZZ45364		0.26	0.005	0.15	0.59	5.0	<0.2	<10	760	0.15	0.24	0.07	0.14	23.3	2.9	18
ZZ45365		0.22	0.023	1.84	0.91	10.8	<0.2	<10	2330	0.33	0.34	0.26	0.44	16.50	3.9	22
ZZ45366		0.28	0.006	0.74	1.05	9.3	<0.2	<10	2740	0.37	0.25	0.11	0.76	22.1	4.8	27
ZZ45367		0.29	0.009	0.52	0.98	12.8	<0.2	<10	1680	0.49	0.29	0.10	0.51	43.6	10.4	39
ZZ45368		0.30	0.009	1.07	0.68	18.2	<0.2	<10	1150	0.34	0.24	0.46	1.64	35.5	8.9	27
ZZ45369		0.31	0.002	0.30	0.81	10.1	<0.2	<10	250	0.18	0.33	0.06	0.17	24.9	4.1	35
ZZ45370		0.26	0.005	2.24	0.62	10.1	<0.2	<10	1240	0.22	0.29	0.19	0.24	17.00	4.3	75
ZZ45371		0.20	0.001	0.44	0.47	0.6	<0.2	<10	60	0.14	0.04	0.19	0.36	7.79	1.3	2
ZZ45372		0.17	0.002	0.38	0.46	1.3	<0.2	<10	1000	0.09	0.06	0.46	0.09	4.32	1.4	5
ZZ45373		0.27	0.005	0.93	0.65	3.4	<0.2	<10	2190	0.17	0.07	0.26	0.43	13.15	1.0	8
ZZ45374		0.21	0.003	0.86	0.50	4.0	<0.2	<10	630	0.11	0.08	0.09	0.29	7.18	11.6	6
ZZ45375		0.23	0.002	0.14	0.42	2.7	<0.2	<10	350	0.12	0.17	0.10	0.28	15.10	4.8	10
ZZ45376		0.27	0.006	2.09	0.39	7.1	<0.2	<10	640	0.11	0.34	0.05	1.28	18.00	1.0	15
ZZ45377		0.27	0.039	0.90	0.82	16.4	<0.2	<10	1730	0.30	0.28	0.23	0.92	26.5	16.2	22
ZZ45378		0.24	0.008	0.22	0.84	7.0	<0.2	<10	720	0.27	0.22	0.09	0.40	27.7	5.1	30
ZZ45379		0.27	0.011	0.18	0.73	8.8	<0.2	<10	770	0.30	0.29	0.14	0.26	46.3	10.5	22



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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202866

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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ45340		1.14	133.5	2.38	2.98	<0.05	0.02	0.02	0.022	0.05	16.2	9.3	0.39	1360	1.25
ZZ45341		1.50	108.5	2.68	3.26	0.05	<0.02	0.07	0.020	0.06	14.8	8.1	0.34	1870	4.39
ZZ45342		1.43	92.3	2.78	4.40	<0.05	<0.02	0.06	0.025	0.06	16.9	13.4	0.40	1540	2.05
ZZ45343		0.98	64.0	1.47	3.10	<0.05	<0.02	0.04	0.010	0.05	7.9	7.1	0.27	514	0.71
ZZ45344		1.44	88.2	2.24	4.05	0.06	<0.02	0.03	0.015	0.06	14.7	12.3	0.53	1140	1.64
ZZ45345		0.75	43.7	1.26	2.18	<0.05	<0.02	0.02	0.008	0.04	6.2	3.6	0.18	622	0.61
ZZ45346		2.78	76.2	3.06	3.68	0.05	<0.02	0.03	0.035	0.07	15.3	10.7	0.29	2530	6.42
ZZ45347		2.25	76.5	3.14	5.06	0.05	<0.02	0.09	0.030	0.06	15.6	13.1	0.41	2290	2.22
ZZ45348		1.09	20.3	1.10	1.95	<0.05	<0.02	0.02	0.008	0.04	3.4	1.3	0.06	406	0.57
ZZ45349		2.51	83.5	3.25	1.75	<0.05	<0.02	0.08	0.033	0.07	10.4	2.6	0.09	1020	7.26
ZZ45350		2.43	46.3	2.44	2.92	<0.05	0.02	0.07	0.030	0.08	10.2	3.4	0.15	185	5.31
ZZ45351		2.24	44.0	2.13	2.30	0.06	<0.02	0.16	0.030	0.07	14.2	2.6	0.12	613	3.75
ZZ45352		2.38	63.0	2.97	2.59	0.05	<0.02	0.17	0.034	0.09	18.3	3.9	0.15	1940	5.91
ZZ45353		3.23	45.2	2.18	3.52	0.06	<0.02	0.18	0.033	0.08	17.0	4.5	0.17	1870	4.63
ZZ45354		2.81	70.9	2.62	4.19	<0.05	0.02	0.03	0.025	0.08	15.0	8.5	0.31	1040	2.28
ZZ45355		2.80	57.6	2.48	4.12	<0.05	0.02	0.17	0.035	0.08	15.0	7.3	0.27	777	3.30
ZZ45356		2.66	87.4	3.38	3.21	0.05	<0.02	0.10	0.036	0.09	17.5	8.4	0.26	834	4.92
ZZ45357		2.17	86.5	2.54	2.74	<0.05	<0.02	0.05	0.027	0.07	7.4	2.2	0.12	578	4.11
ZZ45358		1.00	14.7	0.77	3.11	<0.05	<0.02	0.03	0.006	0.03	7.3	0.7	0.03	102	0.93
ZZ45359		3.23	68.8	3.55	5.68	0.06	<0.02	0.06	0.038	0.09	18.9	17.4	0.52	1760	2.79
ZZ45360		2.54	143.0	3.69	2.14	0.06	0.02	0.04	0.028	0.07	15.8	6.3	0.19	1640	5.24
ZZ45361		2.01	58.1	2.67	3.90	<0.05	<0.02	0.05	0.020	0.05	11.1	6.3	0.25	771	2.56
ZZ45362		3.29	179.0	4.92	1.80	0.08	<0.02	0.09	0.032	0.07	21.4	3.5	0.12	3240	8.29
ZZ45363		0.61	11.4	0.86	2.22	<0.05	<0.02	0.05	0.006	0.03	4.7	1.6	0.06	247	0.61
ZZ45364		0.98	12.5	1.16	4.66	<0.05	<0.02	0.04	0.009	0.03	11.8	3.5	0.13	249	0.95
ZZ45365		2.30	68.4	1.68	2.83	<0.05	0.02	0.52	0.027	0.09	7.5	5.6	0.14	114	3.05
ZZ45366		1.37	30.1	1.84	3.49	<0.05	<0.02	0.08	0.026	0.07	10.7	8.9	0.27	192	3.20
ZZ45367		1.07	46.2	2.77	3.15	0.06	<0.02	0.03	0.032	0.09	21.9	9.0	0.44	300	3.17
ZZ45368		0.83	42.5	2.65	2.26	<0.05	<0.02	0.09	0.028	0.08	18.2	6.2	0.27	346	5.11
ZZ45369		1.43	18.2	1.87	6.32	<0.05	<0.02	0.02	0.015	0.05	12.6	3.3	0.18	117	2.63
ZZ45370		0.81	18.2	2.26	4.03	0.06	<0.02	0.08	0.023	0.15	9.5	2.4	0.24	150	9.43
ZZ45371		0.18	33.4	0.41	1.36	<0.05	0.02	0.01	0.005	0.04	3.8	0.5	0.02	41	0.37
ZZ45372		0.35	20.1	0.48	1.88	<0.05	0.02	0.06	<0.005	0.03	2.4	1.3	0.06	85	0.48
ZZ45373		0.50	34.6	0.38	1.53	0.05	0.05	0.47	0.007	0.05	8.3	2.3	0.05	43	1.23
ZZ45374		0.44	18.1	0.96	1.94	<0.05	<0.02	0.10	0.008	0.03	3.3	0.9	0.04	2090	3.04
ZZ45375		0.66	26.0	1.07	2.21	<0.05	<0.02	0.02	0.007	0.06	7.0	2.1	0.11	443	1.10
ZZ45376		0.74	26.0	1.11	2.23	<0.05	<0.02	0.12	0.023	0.08	11.7	0.7	0.02	56	10.20
ZZ45377		1.24	109.5	2.74	2.29	0.06	0.02	0.11	0.027	0.08	13.0	6.7	0.28	1580	4.51
ZZ45378		1.12	35.7	1.45	3.04	<0.05	<0.02	0.07	0.015	0.07	14.6	6.0	0.25	340	1.94
ZZ45379		1.26	61.2	2.23	2.53	0.08	<0.02	0.06	0.018	0.10	24.7	5.6	0.22	2020	3.67



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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
		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
ZZ45340		0.08	39.7	350	13.0	5.2	<0.001	0.03	0.50	2.7	<0.2	0.2	13.7	<0.01	0.07	3.1
ZZ45341		0.19	42.0	810	16.1	6.0	<0.001	0.04	0.84	2.2	0.4	0.3	17.6	<0.01	0.06	1.0
ZZ45342		0.35	37.7	610	16.7	6.7	<0.001	0.05	0.58	1.6	0.4	0.4	10.8	<0.01	0.07	0.6
ZZ45343		0.20	19.7	610	7.7	4.5	<0.001	0.05	0.23	0.8	0.2	0.2	14.5	<0.01	0.02	0.3
ZZ45344		0.15	35.6	600	13.0	5.3	<0.001	0.04	0.50	1.6	0.2	0.2	14.8	<0.01	0.06	1.1
ZZ45345		0.10	13.9	490	5.7	3.9	<0.001	0.04	0.14	0.4	<0.2	0.2	6.2	<0.01	0.02	<0.2
ZZ45346		0.44	40.9	850	16.6	8.5	<0.001	0.04	1.20	3.0	1.1	0.4	15.0	<0.01	0.03	1.6
ZZ45347		0.25	34.2	850	21.6	10.6	<0.001	0.08	0.73	1.3	0.8	0.4	15.4	<0.01	0.05	0.2
ZZ45348		0.15	7.7	630	5.7	3.7	<0.001	0.04	0.15	0.6	<0.2	<0.2	10.9	<0.01	0.02	<0.2
ZZ45349		0.08	77.9	1620	24.8	5.8	0.001	0.06	2.71	3.1	1.6	0.2	72.2	<0.01	0.08	2.5
ZZ45350		0.17	32.4	1500	17.6	9.4	<0.001	0.14	2.01	0.8	2.1	0.3	71.2	<0.01	0.06	0.2
ZZ45351		0.08	29.9	2320	23.5	9.5	<0.001	0.08	1.79	0.8	3.0	0.3	110.0	<0.01	0.06	0.3
ZZ45352		0.19	40.4	970	24.5	9.6	0.001	0.04	1.93	4.0	2.1	0.3	18.4	<0.01	0.06	1.7
ZZ45353		0.25	31.3	1120	22.0	12.4	<0.001	0.07	1.06	3.1	1.3	0.4	27.0	<0.01	0.05	0.8
ZZ45354		0.27	32.8	960	15.1	11.1	<0.001	0.05	0.79	2.3	1.1	0.4	22.8	<0.01	0.05	0.6
ZZ45355		0.37	37.1	1090	17.0	12.0	<0.001	0.07	1.16	3.8	0.9	0.4	33.1	<0.01	0.09	1.1
ZZ45356		0.38	47.9	950	21.5	9.2	<0.001	0.10	2.20	3.3	1.3	0.3	64.6	<0.01	0.08	1.4
ZZ45357		0.11	51.0	1120	11.6	8.3	<0.001	0.07	1.52	0.6	0.7	0.3	19.3	<0.01	0.06	<0.2
ZZ45358		<0.05	7.6	480	4.2	4.5	<0.001	0.03	0.27	0.1	0.2	0.4	5.8	<0.01	0.01	<0.2
ZZ45359		0.57	43.6	900	20.8	13.6	<0.001	0.04	0.99	3.1	1.0	0.5	17.1	<0.01	0.04	1.1
ZZ45360		0.07	80.7	1100	23.9	5.2	0.001	0.10	3.17	2.6	2.0	0.2	50.4	<0.01	0.19	1.0
ZZ45361		0.17	31.7	900	14.6	8.2	<0.001	0.07	0.64	0.6	0.5	0.3	10.3	<0.01	0.05	<0.2
ZZ45362		0.07	122.0	1430	40.7	5.6	<0.001	0.05	3.49	4.1	4.5	0.2	59.8	<0.01	0.15	2.7
ZZ45363		0.16	10.7	420	3.6	4.4	<0.001	0.04	0.21	0.3	0.6	0.2	8.4	<0.01	<0.01	<0.2
ZZ45364		0.77	13.3	310	10.3	6.7	<0.001	0.03	0.38	1.2	0.4	0.6	13.0	<0.01	<0.01	0.8
ZZ45365		0.24	24.3	1270	17.9	10.5	0.003	0.08	1.66	2.8	3.7	0.3	65.5	<0.01	0.04	0.5
ZZ45366		0.34	25.5	880	13.1	10.1	0.001	0.11	1.32	1.0	1.8	0.3	39.1	<0.01	0.03	0.2
ZZ45367		0.32	41.1	860	19.0	8.5	<0.001	0.15	1.41	2.3	1.3	0.3	65.1	<0.01	0.09	1.2
ZZ45368		0.32	56.2	1550	16.6	7.2	0.002	0.11	2.00	2.5	3.6	0.3	72.6	<0.01	0.03	2.0
ZZ45369		0.44	20.6	690	13.5	9.6	<0.001	0.04	1.25	0.7	1.0	0.7	12.9	<0.01	0.03	<0.2
ZZ45370		0.27	28.5	2900	29.6	10.6	<0.001	0.21	2.93	0.9	9.6	0.5	109.0	<0.01	0.11	0.3
ZZ45371		0.12	3.9	540	1.3	1.2	<0.001	0.01	0.08	0.2	0.3	<0.2	17.4	<0.01	0.03	<0.2
ZZ45372		0.26	5.1	690	2.5	2.4	0.003	0.08	0.27	0.3	1.1	<0.2	88.8	<0.01	0.01	<0.2
ZZ45373		0.18	5.7	1230	5.1	4.0	0.004	0.16	1.67	0.7	3.0	<0.2	83.3	<0.01	0.02	0.5
ZZ45374		0.05	7.1	820	5.5	2.8	<0.001	0.04	0.57	0.2	0.9	0.2	19.4	<0.01	0.02	<0.2
ZZ45375		0.07	10.6	530	8.6	4.7	<0.001	0.03	0.40	0.3	<0.2	0.2	16.0	<0.01	0.05	<0.2
ZZ45376		0.06	13.5	1840	23.6	6.1	0.001	0.09	2.24	0.1	4.7	0.3	77.3	<0.01	0.08	<0.2
ZZ45377		0.17	73.8	1140	17.7	7.6	<0.001	0.07	1.89	2.2	2.0	0.2	44.6	<0.01	0.12	0.9
ZZ45378		0.18	21.3	580	11.1	9.7	<0.001	0.03	0.58	0.6	0.3	0.3	17.4	<0.01	0.03	0.2
ZZ45379		0.15	29.7	730	19.5	7.8	<0.001	0.03	0.78	1.3	0.8	0.2	25.6	<0.01	0.07	1.0



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ45340		<0.005	0.04	0.57	19	<0.05	5.16	80	0.6
ZZ45341		0.011	0.08	0.80	28	0.12	7.26	107	<0.5
ZZ45342		0.016	0.06	0.70	34	0.21	4.02	84	<0.5
ZZ45343		0.011	0.05	0.42	19	0.06	3.49	45	<0.5
ZZ45344		0.010	0.04	0.47	24	0.07	3.54	80	<0.5
ZZ45345		0.013	0.03	0.30	19	0.06	1.52	39	<0.5
ZZ45346		0.014	0.13	0.72	31	0.14	5.03	116	<0.5
ZZ45347		0.017	0.12	0.74	45	0.15	6.17	81	<0.5
ZZ45348		0.024	0.03	0.28	21	0.05	1.85	25	<0.5
ZZ45349		0.005	0.30	2.46	38	<0.05	15.70	438	<0.5
ZZ45350		0.006	0.40	1.56	36	0.08	8.22	141	0.5
ZZ45351		0.005	0.43	2.23	38	0.05	11.05	120	<0.5
ZZ45352		0.005	0.21	1.38	32	0.07	9.16	180	<0.5
ZZ45353		0.008	0.28	1.52	35	0.12	8.25	119	<0.5
ZZ45354		0.015	0.11	0.89	34	0.14	7.42	110	<0.5
ZZ45355		0.009	0.23	1.27	37	0.18	10.85	100	<0.5
ZZ45356		0.014	0.34	1.54	36	0.12	8.75	163	<0.5
ZZ45357		0.006	0.11	0.97	31	0.11	5.03	131	<0.5
ZZ45358		0.007	0.07	0.26	24	0.09	0.89	27	<0.5
ZZ45359		0.025	0.17	1.03	47	0.31	8.27	120	<0.5
ZZ45360		0.005	0.27	1.45	43	0.05	12.70	281	<0.5
ZZ45361		0.010	0.09	0.50	36	0.13	2.89	81	<0.5
ZZ45362		<0.005	0.42	2.40	36	<0.05	17.20	494	<0.5
ZZ45363		0.019	0.05	0.43	20	0.07	2.79	18	<0.5
ZZ45364		0.044	0.09	0.41	35	0.27	2.16	28	<0.5
ZZ45365		0.011	0.62	1.62	43	0.08	8.30	72	0.6
ZZ45366		0.017	0.22	1.04	34	0.15	4.45	70	<0.5
ZZ45367		0.014	0.24	1.17	40	1.15	7.25	124	<0.5
ZZ45368		0.013	0.27	1.69	39	0.24	12.90	230	0.6
ZZ45369		0.032	0.17	0.74	59	0.32	2.16	44	<0.5
ZZ45370		0.020	0.63	2.16	84	0.27	3.48	50	0.5
ZZ45371		0.018	0.02	0.16	14	<0.05	1.17	12	0.8
ZZ45372		0.020	0.03	0.57	12	<0.05	2.25	15	0.8
ZZ45373		0.009	0.27	2.07	35	<0.05	4.95	35	1.5
ZZ45374		0.013	0.12	0.61	25	0.08	2.40	22	<0.5
ZZ45375		0.012	0.06	0.37	20	<0.05	1.96	50	<0.5
ZZ45376		<0.005	0.50	1.66	39	0.16	4.95	66	<0.5
ZZ45377		0.009	0.27	1.35	26	0.11	18.35	207	0.6
ZZ45378		0.013	0.10	0.80	27	0.11	5.41	57	<0.5
ZZ45379		0.010	0.09	1.10	22	0.11	6.72	83	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ45380		0.29	0.014	1.46	0.73	15.2	<0.2	<10	1290	0.29	0.30	0.25	1.51	34.1	8.8	18
ZZ45381		0.22	0.001	0.20	0.55	1.1	<0.2	<10	190	0.09	0.03	0.19	0.21	5.90	3.0	4
ZZ45382		0.26	0.005	0.39	0.71	9.3	<0.2	<10	600	0.18	0.14	0.08	0.19	13.55	8.0	72
ZZ45383		0.23	0.007	0.40	0.99	6.0	<0.2	<10	800	0.27	0.18	0.12	0.30	24.8	4.7	21
ZZ45384		0.31	0.017	0.28	0.91	5.6	<0.2	<10	1380	0.34	0.29	0.21	0.24	44.6	10.8	21
ZZ45385		0.20	0.011	0.17	1.04	4.8	<0.2	<10	300	0.23	0.24	0.05	0.10	34.3	3.0	12
ZZ45386		0.24	0.001	0.02	0.28	0.3	<0.2	<10	20	<0.05	0.03	0.05	0.04	1.17	1.1	2
ZZ45387		0.20	0.004	0.17	0.69	3.2	<0.2	<10	430	0.22	0.13	0.12	0.08	16.80	2.3	9
ZZ45388		0.20	0.006	0.12	0.69	3.0	<0.2	<10	730	0.24	0.13	0.11	0.09	16.25	4.1	12
ZZ45389		0.28	0.009	0.27	1.02	6.8	<0.2	<10	1230	0.37	0.27	0.12	0.28	57.0	12.8	18
ZZ45390		0.25	0.012	0.21	1.00	6.9	<0.2	<10	1130	0.35	0.32	0.14	0.12	48.6	10.8	21
ZZ45391		0.28	0.008	0.24	0.75	7.1	<0.2	<10	1230	0.25	0.24	0.17	0.19	42.2	10.3	18
ZZ45392		0.19	0.001	0.06	0.42	0.6	<0.2	<10	180	0.11	0.03	0.16	0.06	10.30	1.6	3
ZZ45393		0.26	0.005	0.31	0.70	3.4	<0.2	<10	700	0.22	0.16	0.13	0.15	23.7	5.9	11
ZZ45394		0.24	0.014	0.16	0.71	7.8	<0.2	<10	860	0.22	0.26	0.13	0.12	39.9	11.4	17
ZZ45395		0.29	0.013	0.11	0.61	5.9	<0.2	<10	990	0.20	0.26	0.17	0.18	41.4	10.9	13
ZZ45396		0.28	0.007	0.13	0.75	6.6	<0.2	<10	1200	0.30	0.32	0.12	0.11	62.3	14.7	27
ZZ45397		0.38	0.006	0.17	0.36	2.4	<0.2	<10	370	0.08	0.13	0.04	0.10	13.40	4.8	18
ZZ45398		0.30	0.009	0.25	0.67	6.0	<0.2	<10	1220	0.17	0.22	0.31	0.21	22.6	8.4	85
ZZ45399		0.28	0.013	0.30	0.83	8.3	<0.2	<10	1260	0.26	0.28	0.26	0.09	38.8	10.1	21
ZZ45400		0.32	0.013	0.13	0.73	6.1	<0.2	<10	1040	0.26	0.25	0.17	0.14	36.3	9.2	16
ZZ45401		0.22	0.007	0.21	0.92	7.0	<0.2	<10	740	0.36	0.23	0.15	0.22	41.0	10.2	20
ZZ45402		0.22	0.020	0.52	0.91	14.0	<0.2	<10	930	0.44	0.24	0.16	0.46	36.4	13.2	25
ZZ45403		0.20	0.017	0.78	0.71	7.0	<0.2	<10	1000	0.20	0.09	0.56	2.50	32.4	20.3	20
ZZ45404		0.40	0.024	0.49	0.59	9.2	<0.2	<10	1150	0.17	0.22	0.08	0.62	29.5	7.0	25
ZZ02671		0.29	0.013	0.12	1.34	9.1	<0.2	<10	170	0.22	0.22	0.06	0.12	27.2	6.5	44
ZZ02672		0.33	0.003	0.11	1.47	6.6	<0.2	<10	300	0.35	0.20	0.08	0.21	34.1	7.9	32
ZZ02673		0.34	0.004	0.36	1.70	31.4	<0.2	<10	380	0.43	0.25	0.09	0.24	30.2	17.4	77
ZZ02674		0.22	0.002	0.39	0.65	5.7	<0.2	<10	200	0.11	0.20	0.04	0.20	19.45	2.7	19
ZZ02675		0.34	0.004	0.11	1.25	14.7	<0.2	<10	310	0.35	0.23	0.14	0.39	35.9	17.0	46
ZZ02676		0.25	0.007	0.67	0.87	15.3	<0.2	<10	710	0.38	0.19	0.43	1.04	29.1	10.0	25
ZZ02677		0.34	0.002	0.04	1.59	10.4	<0.2	<10	160	0.35	0.24	0.09	0.14	24.3	8.0	36
ZZ02678		0.24	0.003	0.05	1.04	10.3	<0.2	<10	250	0.23	0.25	0.09	0.16	27.9	5.5	27
ZZ02679		0.35	0.003	0.12	1.30	9.8	<0.2	<10	300	0.37	0.22	0.12	0.29	33.6	11.3	34
DD005688		0.26	0.012	0.15	0.97	4.8	<0.2	<10	1890	0.63	0.26	0.97	0.20	31.0	74.5	27
DD005689		0.32	0.096	1.30	1.16	299	<0.2	<10	240	0.50	0.05	0.19	0.36	9.04	44.6	55



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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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ45380		1.24	76.0	2.25	2.33	0.07	0.02	0.12	0.027	0.09	16.4	4.1	0.19	808	7.56
ZZ45381		0.12	30.5	0.89	1.88	<0.05	0.02	0.04	0.005	0.03	2.9	0.6	0.04	126	0.43
ZZ45382		0.75	28.9	2.10	3.14	<0.05	<0.02	0.04	0.010	0.05	6.7	2.9	0.33	675	2.19
ZZ45383		1.47	39.6	1.37	3.87	0.11	<0.02	0.10	0.011	0.06	34.8	6.4	0.16	749	1.88
ZZ45384		1.03	69.1	2.28	3.32	0.07	0.04	0.05	0.023	0.09	23.8	7.5	0.34	1670	1.47
ZZ45385		1.80	45.0	1.06	4.24	0.05	0.02	0.04	0.010	0.05	18.1	2.7	0.04	369	1.73
ZZ45386		0.05	3.7	0.37	1.17	<0.05	<0.02	0.01	<0.005	0.02	0.6	0.2	0.01	136	0.16
ZZ45387		1.59	23.7	0.96	2.77	0.05	<0.02	0.06	0.012	0.05	17.0	3.9	0.08	373	1.17
ZZ45388		1.13	30.1	1.16	2.45	0.05	0.03	0.04	0.012	0.06	11.1	3.3	0.09	816	1.16
ZZ45389		1.32	65.9	2.18	3.94	0.07	0.03	0.05	0.017	0.08	32.5	8.4	0.37	2290	3.82
ZZ45390		1.21	56.1	2.15	3.67	0.08	0.02	0.06	0.018	0.08	24.1	8.5	0.37	1800	2.97
ZZ45391		0.83	54.6	1.92	2.99	0.07	<0.02	0.05	0.018	0.07	21.0	7.0	0.37	1480	2.71
ZZ45392		0.10	8.7	0.36	1.41	<0.05	0.02	0.04	<0.005	0.02	6.4	0.9	0.04	149	0.18
ZZ45393		0.90	26.6	1.21	2.78	0.06	<0.02	0.07	0.012	0.06	12.2	4.2	0.16	707	1.16
ZZ45394		0.80	50.5	1.99	3.13	0.07	0.02	0.04	0.016	0.07	17.9	6.4	0.32	1640	2.34
ZZ45395		0.60	56.5	1.87	2.62	0.07	0.03	0.05	0.014	0.06	18.6	5.8	0.32	1640	2.15
ZZ45396		1.17	62.4	2.08	3.13	0.08	0.02	0.04	0.020	0.08	28.0	6.9	0.37	2610	2.62
ZZ45397		0.58	17.2	1.04	2.22	<0.05	<0.02	0.03	0.008	0.05	6.5	1.7	0.10	630	1.10
ZZ45398		0.91	27.7	1.76	2.62	0.05	0.09	0.06	0.015	0.07	11.1	5.0	0.57	764	2.09
ZZ45399		0.88	46.3	2.05	3.18	0.06	0.03	0.05	0.020	0.07	20.5	7.9	0.38	1420	3.00
ZZ45400		0.76	45.7	1.94	2.59	0.07	0.03	0.03	0.017	0.06	19.2	6.6	0.33	1280	2.00
ZZ45401		1.10	44.9	1.97	3.41	0.06	<0.02	0.04	0.019	0.08	21.4	7.8	0.32	1680	1.97
ZZ45402		1.35	61.2	2.70	3.02	0.06	0.04	0.07	0.023	0.06	18.3	7.7	0.31	957	3.83
ZZ45403		0.37	54.3	1.52	1.81	<0.05	0.03	0.12	0.012	0.03	7.0	1.2	0.14	5210	4.44
ZZ45404		1.05	41.0	2.01	2.55	0.05	0.02	0.08	0.021	0.06	13.4	4.0	0.20	477	3.22
ZZ02671		1.00	20.0	2.50	5.89	0.05	<0.02	0.02	0.022	0.06	12.8	9.9	0.51	220	1.58
ZZ02672		1.18	21.1	2.96	6.93	<0.05	<0.02	0.07	0.030	0.06	17.2	12.8	0.42	473	1.46
ZZ02673		1.79	46.5	3.85	7.27	<0.05	<0.02	0.06	0.032	0.06	12.8	20.5	0.72	614	2.62
ZZ02674		0.89	16.4	1.25	5.30	<0.05	<0.02	0.06	0.013	0.04	9.2	2.4	0.12	87	1.36
ZZ02675		1.33	44.6	3.34	5.70	<0.05	<0.02	0.06	0.026	0.07	17.0	12.9	0.66	834	3.02
ZZ02676		0.92	42.9	2.28	3.03	<0.05	<0.02	0.12	0.025	0.08	14.3	7.4	0.33	677	3.97
ZZ02677		1.46	21.8	2.82	6.45	<0.05	<0.02	0.05	0.022	0.06	11.2	11.4	0.37	416	1.41
ZZ02678		0.97	17.2	2.41	7.31	<0.05	0.03	0.05	0.017	0.05	13.1	8.7	0.31	205	1.77
ZZ02679		1.60	35.1	2.38	5.37	<0.05	<0.02	0.04	0.022	0.06	15.4	12.4	0.44	604	2.07
DD005688		5.51	117.5	7.82	2.54	0.05	0.05	0.09	0.070	0.10	11.6	5.2	0.57	5180	1.04
DD005689		2.37	78.1	8.31	3.38	<0.05	0.02	0.15	0.067	0.07	3.4	6.7	0.24	1060	2.30



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
ZZ45380		0.14	34.6	1430	18.0	6.9	0.001	0.09	1.82	1.6	5.1	0.2	91.7	<0.01	0.13
ZZ45381		0.26	4.9	860	1.2	0.9	<0.001	0.03	0.15	0.4	1.4	<0.2	15.6	<0.01	0.01
ZZ45382		0.14	35.6	690	8.7	6.5	<0.001	0.04	0.80	0.6	0.8	0.2	15.6	<0.01	0.03
ZZ45383		0.16	15.7	950	9.6	8.1	<0.001	0.05	0.53	0.6	0.9	0.3	23.1	<0.01	0.06
ZZ45384		0.19	28.6	680	22.3	7.9	<0.001	0.04	0.53	2.5	0.7	0.2	40.2	<0.01	0.07
ZZ45385		0.17	8.3	1280	18.5	10.6	<0.001	0.05	0.92	0.2	0.3	0.4	21.9	<0.01	0.07
ZZ45386		0.26	1.4	160	1.9	0.7	<0.001	0.01	<0.05	0.2	<0.2	<0.2	8.2	<0.01	0.02
ZZ45387		0.13	7.3	890	6.2	8.0	<0.001	0.05	0.24	0.3	0.8	0.2	16.6	<0.01	0.03
ZZ45388		0.24	11.5	630	8.6	7.3	<0.001	0.03	0.33	1.1	0.6	0.2	15.7	<0.01	0.04
ZZ45389		0.19	27.4	660	23.9	8.1	<0.001	0.03	0.61	2.2	0.8	0.2	24.5	<0.01	0.05
ZZ45390		0.23	26.6	630	21.0	7.1	<0.001	0.03	0.61	2.2	0.7	0.2	25.2	<0.01	0.08
ZZ45391		0.19	28.3	610	17.4	5.2	<0.001	0.03	0.67	2.2	0.5	0.2	35.1	<0.01	0.07
ZZ45392		0.22	2.8	560	1.4	0.9	<0.001	0.01	<0.05	0.4	<0.2	<0.2	14.1	<0.01	0.04
ZZ45393		0.21	11.4	650	10.4	6.9	<0.001	0.04	0.28	0.7	0.5	0.2	18.6	<0.01	0.04
ZZ45394		0.20	24.9	680	20.3	6.1	0.001	0.03	0.62	1.7	0.5	0.2	28.4	<0.01	0.08
ZZ45395		0.11	27.2	580	16.8	4.5	<0.001	0.03	0.60	1.9	0.4	<0.2	33.8	<0.01	0.08
ZZ45396		0.13	35.0	530	30.0	5.7	<0.001	0.03	0.64	1.9	0.8	0.2	29.9	<0.01	0.10
ZZ45397		0.14	10.7	460	8.4	4.4	<0.001	0.03	0.23	0.4	<0.2	<0.2	8.2	<0.01	0.04
ZZ45398		0.28	48.2	840	11.2	6.5	<0.001	0.06	0.63	2.4	0.7	0.2	44.5	<0.01	0.06
ZZ45399		0.32	29.8	720	19.4	6.1	0.001	0.04	0.72	2.1	0.4	0.2	40.4	<0.01	0.08
ZZ45400		0.17	24.2	650	17.8	4.7	<0.001	0.03	0.47	1.8	0.4	0.2	26.7	<0.01	0.09
ZZ45401		0.22	23.8	760	16.8	8.3	<0.001	0.03	0.72	1.6	0.8	0.2	23.5	<0.01	0.05
ZZ45402		0.26	39.5	1120	18.5	7.0	<0.001	0.06	1.85	2.5	1.7	0.2	50.1	<0.01	0.10
ZZ45403		0.16	31.3	1300	8.0	2.2	<0.001	0.09	0.87	0.9	1.4	<0.2	61.6	<0.01	0.05
ZZ45404		0.19	27.4	1000	14.2	5.6	<0.001	0.06	1.21	2.1	1.0	0.2	32.1	<0.01	0.06
ZZ02671		0.58	27.3	570	10.9	7.5	<0.001	0.02	0.72	1.7	0.3	0.5	8.2	<0.01	0.04
ZZ02672		1.02	22.3	440	12.4	10.1	<0.001	0.02	0.65	2.6	0.6	0.6	16.4	0.01	0.04
ZZ02673		0.80	53.4	880	19.6	11.0	0.001	0.03	1.20	2.3	0.6	0.6	13.5	<0.01	0.07
ZZ02674		0.26	10.7	560	9.3	4.5	<0.001	0.04	0.48	0.2	0.3	0.6	9.0	<0.01	0.04
ZZ02675		0.58	46.5	870	18.1	11.1	0.001	0.03	1.47	2.7	0.9	0.4	22.9	<0.01	0.04
ZZ02676		0.28	32.7	1230	13.9	7.4	0.001	0.07	3.10	1.2	1.8	0.3	68.4	<0.01	0.07
ZZ02677		1.05	20.1	630	17.6	9.3	<0.001	0.02	0.68	2.0	0.4	0.5	10.9	0.01	0.06
ZZ02678		0.63	18.2	450	12.3	8.3	<0.001	0.02	0.68	1.1	0.3	0.6	11.2	<0.01	0.02
ZZ02679		0.57	33.9	760	16.0	9.4	<0.001	0.02	0.85	1.7	0.7	0.5	14.5	<0.01	0.06
DD005688		0.08	89.0	800	13.6	7.9	0.001	0.07	1.01	32.8	1.7	0.2	133.0	<0.01	0.13
DD005689		0.05	83.6	290	13.5	4.9	<0.001	0.05	15.75	23.6	0.9	0.2	15.6	<0.01	0.17



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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202866

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ45380		0.007	0.29	1.84	27	0.09	10.40	116	0.7
ZZ45381		0.042	0.03	0.40	28	0.05	3.31	14	0.7
ZZ45382		0.024	0.10	0.56	40	0.10	3.25	54	<0.5
ZZ45383		0.013	0.10	1.42	28	0.16	13.85	45	<0.5
ZZ45384		0.008	0.07	0.77	24	0.07	10.20	86	1.1
ZZ45385		0.006	0.11	0.58	36	0.09	2.67	34	<0.5
ZZ45386		0.024	<0.02	0.09	12	<0.05	0.26	5	0.7
ZZ45387		0.010	0.05	0.88	17	0.08	6.53	26	<0.5
ZZ45388		0.013	0.06	0.50	20	0.08	6.65	42	0.6
ZZ45389		0.008	0.10	0.99	25	0.08	12.45	82	0.5
ZZ45390		0.012	0.08	0.82	26	0.09	9.24	75	<0.5
ZZ45391		0.008	0.09	0.66	21	0.08	6.55	72	0.6
ZZ45392		0.022	<0.02	0.20	10	<0.05	3.46	7	0.5
ZZ45393		0.016	0.05	0.61	21	0.08	4.91	32	<0.5
ZZ45394		0.009	0.09	0.65	21	0.08	5.13	68	1.0
ZZ45395		<0.005	0.06	0.60	16	0.07	6.18	75	0.9
ZZ45396		0.006	0.09	0.77	19	0.10	7.99	70	0.5
ZZ45397		0.018	0.03	0.32	20	0.06	1.85	28	<0.5
ZZ45398		0.015	0.07	0.77	26	0.09	4.18	72	1.9
ZZ45399		0.012	0.07	0.76	23	0.10	7.02	65	0.8
ZZ45400		0.008	0.06	0.67	19	0.08	6.30	69	0.6
ZZ45401		0.012	0.07	0.79	27	0.16	6.59	61	0.5
ZZ45402		0.011	0.20	1.38	35	0.08	8.78	136	0.7
ZZ45403		0.015	0.29	1.39	26	0.08	7.90	47	0.7
ZZ45404		0.009	0.15	1.16	30	0.07	5.87	101	0.6
ZZ02671		0.026	0.09	0.41	48	0.18	2.52	53	<0.5
ZZ02672		0.031	0.11	0.55	41	0.17	4.45	52	<0.5
ZZ02673		0.038	0.12	0.56	59	0.22	4.46	79	<0.5
ZZ02674		0.014	0.08	0.40	40	0.28	1.52	27	<0.5
ZZ02675		0.032	0.13	0.66	50	0.36	5.43	107	<0.5
ZZ02676		0.017	0.21	1.66	38	0.21	11.20	121	<0.5
ZZ02677		0.044	0.13	0.57	59	0.30	2.93	54	<0.5
ZZ02678		0.035	0.10	0.52	57	0.28	3.40	52	<0.5
ZZ02679		0.023	0.14	0.67	41	0.22	5.53	73	<0.5
DD005688		<0.005	0.11	0.34	89	0.06	20.6	118	1.1
DD005689		<0.005	0.35	0.14	77	<0.05	10.95	205	<0.5



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CERTIFICATE OF ANALYSIS WH12202866

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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P.O. No.:

This report is for 163 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

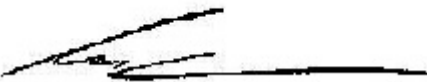
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12202867

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ55708		0.24	0.006	0.39	0.85	6.9	<0.2	<10	820	0.23	0.23	0.11	0.74	17.20	10.4	25
ZZ55709		0.40	0.015	0.18	0.95	11.5	<0.2	<10	1170	0.33	0.32	0.08	0.39	42.8	22.7	27
ZZ55710		0.43	0.005	0.09	0.58	2.3	<0.2	<10	590	0.15	0.09	0.09	0.08	9.93	6.5	11
ZZ55711		0.36	0.010	0.17	0.77	4.9	<0.2	<10	920	0.19	0.14	0.15	0.12	13.50	9.2	13
ZZ55712		0.26	0.007	0.77	0.82	10.5	<0.2	<10	1510	0.33	0.23	0.18	0.43	34.2	13.5	31
ZZ55713		0.27	0.002	0.73	0.44	3.9	<0.2	<10	310	0.13	0.14	0.09	1.23	10.95	7.0	13
ZZ55714		0.35	0.006	0.75	0.53	20.4	<0.2	<10	480	0.36	0.29	0.20	0.90	26.7	15.7	18
ZZ55715		0.34	0.008	1.00	0.60	12.7	<0.2	<10	400	0.21	0.24	0.07	0.36	19.75	11.4	27
ZZ55716		0.22	0.010	1.18	0.42	7.9	<0.2	<10	210	0.17	0.21	0.07	0.55	29.4	4.3	13
ZZ55717		0.29	0.003	1.21	0.83	11.9	<0.2	<10	470	0.28	0.18	0.16	0.90	19.40	9.7	37
ZZ55718		0.33	0.005	1.09	1.86	14.9	<0.2	<10	550	0.59	0.21	0.23	0.40	39.6	17.2	57
ZZ55719		0.36	0.004	0.61	1.54	12.7	<0.2	<10	380	0.46	0.24	0.07	0.42	27.7	10.6	44
ZZ55720		0.28	0.011	0.37	1.02	15.0	<0.2	<10	380	0.40	0.24	0.14	0.35	28.2	12.5	32
ZZ55721		0.30	0.004	0.57	1.69	13.6	<0.2	<10	980	0.65	0.20	0.17	0.39	33.9	14.0	51
ZZ55722		0.27	0.005	0.46	0.58	10.9	<0.2	<10	1730	0.35	0.27	0.30	0.54	26.7	11.7	13
ZZ55723		0.34	0.017	0.40	0.89	12.7	<0.2	<10	880	0.47	0.23	0.24	0.84	21.6	19.4	28
ZZ55724		0.30	0.011	0.23	1.23	11.5	<0.2	<10	900	0.42	0.25	0.12	0.23	25.6	11.2	40
ZZ55725		0.39	0.015	0.13	0.93	7.5	<0.2	<10	1470	0.32	0.26	0.11	0.15	21.4	12.1	31
ZZ55726		0.39	0.004	0.12	0.66	3.9	<0.2	<10	510	0.21	0.11	0.09	0.45	11.05	6.2	16
ZZ55727		0.30	0.004	0.23	0.80	6.5	<0.2	<10	1170	0.29	0.23	0.21	0.32	18.05	6.6	28
ZZ55728		0.43	0.004	0.28	0.91	8.8	<0.2	<10	1330	0.50	0.30	0.14	0.41	31.6	7.8	23
ZZ55729		0.39	0.002	0.16	0.94	5.3	<0.2	<10	450	0.32	0.14	0.26	0.33	18.05	7.4	21
ZZ55730		0.35	0.003	1.20	0.95	9.4	<0.2	<10	260	0.34	0.23	0.08	0.87	24.9	8.2	27
ZZ55731		0.35	0.010	1.69	0.84	13.2	<0.2	<10	760	0.52	0.18	0.16	1.48	25.1	7.0	21
ZZ55732		0.46	0.008	0.96	0.98	20.8	<0.2	<10	580	0.57	0.34	0.12	0.63	29.7	6.4	28
ZZ55733		0.34	0.006	6.52	0.91	13.0	<0.2	<10	470	0.28	0.21	0.15	1.31	22.0	4.9	25
ZZ55734		0.31	0.016	1.05	0.98	13.8	<0.2	<10	660	0.25	0.25	0.06	0.33	27.0	4.4	25
ZZ55735		0.51	0.008	0.33	1.38	13.6	<0.2	<10	720	0.36	0.24	0.13	0.39	31.6	10.4	45
ZZ55736		0.26	0.006	0.24	1.21	6.9	<0.2	<10	1020	0.33	0.19	0.17	0.60	23.6	12.3	35
ZZ55737		0.39	0.008	0.40	1.12	11.2	<0.2	<10	2840	0.38	0.18	0.11	0.25	32.2	10.4	47
ZZ55738		0.33	0.008	0.34	1.05	13.2	<0.2	<10	1860	0.34	0.22	0.10	0.45	23.9	10.5	39
ZZ55739		0.35	0.004	0.34	1.86	16.8	<0.2	<10	1810	0.55	0.23	0.11	0.37	33.4	14.4	68
ZZ55740		0.25	0.004	0.16	0.91	8.6	<0.2	<10	340	0.20	0.21	0.07	0.19	21.1	5.5	29
ZZ55741		0.29	0.009	0.14	0.82	5.9	<0.2	<10	460	0.18	0.21	0.04	0.26	27.7	9.4	20
ZZ55742		0.40	0.005	0.72	0.66	5.7	<0.2	<10	630	0.24	0.13	0.11	0.44	14.50	3.8	14
ZZ55743		0.40	0.004	0.43	0.97	15.1	<0.2	<10	1750	0.39	0.29	0.10	0.36	27.7	11.1	46
ZZ55744		0.28	0.009	0.45	1.60	15.9	<0.2	<10	1990	0.50	0.32	0.04	0.58	39.3	16.4	35
ZZ55745		0.37	0.083	0.90	0.98	104.0	<0.2	<10	2080	0.40	0.51	0.18	0.73	42.4	26.0	17
ZZ55746		0.42	0.019	0.74	1.22	17.8	<0.2	<10	1540	0.48	0.52	0.21	0.37	44.0	20.9	25
ZZ55747		0.34	0.025	0.42	0.81	15.9	<0.2	<10	2140	0.35	0.60	0.26	0.42	57.4	22.4	14



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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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ55708		2.38	73.9	2.36	4.75	<0.05	<0.02	0.07	0.023	0.07	8.2	5.9	0.18	786	2.15
ZZ55709		2.81	157.0	3.14	4.00	0.06	0.02	0.07	0.030	0.07	17.7	9.5	0.31	3070	3.37
ZZ55710		1.39	44.6	1.11	2.50	<0.05	<0.02	0.04	0.010	0.03	5.3	3.5	0.10	617	0.76
ZZ55711		1.85	78.1	1.55	2.65	<0.05	<0.02	0.07	0.016	0.05	6.1	4.7	0.14	1410	1.35
ZZ55712		1.81	44.8	2.55	3.03	0.06	<0.02	0.10	0.030	0.07	16.9	5.3	0.22	992	2.84
ZZ55713		1.24	28.5	1.29	2.53	<0.05	<0.02	0.03	0.010	0.04	5.6	2.7	0.12	304	1.22
ZZ55714		1.12	62.5	3.71	1.94	0.06	<0.02	0.03	0.026	0.07	11.8	4.5	0.18	484	3.68
ZZ55715		1.56	36.2	3.28	3.02	0.05	<0.02	0.04	0.026	0.09	8.8	2.9	0.14	716	3.57
ZZ55716		1.75	19.9	1.73	2.88	0.05	<0.02	0.09	0.011	0.06	15.5	0.9	0.03	110	2.41
ZZ55717		1.10	28.2	2.64	4.63	<0.05	<0.02	0.11	0.022	0.07	8.9	4.8	0.27	665	2.32
ZZ55718		1.54	43.5	3.41	6.02	0.07	<0.02	0.09	0.032	0.08	17.8	16.8	0.86	631	2.30
ZZ55719		1.30	28.9	3.14	5.82	0.05	<0.02	0.05	0.028	0.07	14.0	14.2	0.49	410	2.33
ZZ55720		2.33	67.1	3.05	4.07	0.06	<0.02	0.07	0.026	0.10	14.1	10.7	0.41	1090	2.93
ZZ55721		1.56	40.1	3.22	5.84	0.06	<0.02	0.09	0.032	0.07	16.8	13.7	0.64	807	2.11
ZZ55722		1.67	42.7	2.12	2.05	0.05	<0.02	0.10	0.021	0.09	12.6	1.6	0.08	652	2.04
ZZ55723		3.97	67.7	3.00	3.19	<0.05	<0.02	0.11	0.029	0.13	9.4	6.4	0.27	5200	3.15
ZZ55724		2.21	60.5	3.12	4.83	0.05	<0.02	0.06	0.021	0.08	11.1	10.4	0.46	1280	2.23
ZZ55725		2.78	84.5	2.57	3.51	<0.05	<0.02	0.05	0.020	0.09	9.1	8.6	0.27	1260	1.73
ZZ55726		1.49	34.2	1.58	3.12	<0.05	<0.02	0.04	0.008	0.04	5.2	3.8	0.15	1070	0.83
ZZ55727		1.47	35.1	2.34	4.74	<0.05	<0.02	0.08	0.016	0.09	8.3	5.0	0.25	763	1.34
ZZ55728		2.91	28.2	2.52	4.70	0.05	<0.02	0.06	0.018	0.09	17.7	6.2	0.24	560	2.14
ZZ55729		1.71	34.7	1.93	4.07	<0.05	<0.02	0.03	0.010	0.06	8.2	6.4	0.25	1080	1.27
ZZ55730		1.10	32.2	2.45	4.91	<0.05	<0.02	0.03	0.018	0.08	13.5	6.7	0.31	529	3.67
ZZ55731		1.01	105.5	1.93	2.87	0.06	<0.02	0.13	0.018	0.08	14.2	5.4	0.18	563	5.43
ZZ55732		1.41	43.7	2.47	3.84	0.08	0.02	0.06	0.032	0.12	15.3	7.6	0.23	233	8.14
ZZ55733		1.03	27.2	1.97	4.74	0.05	<0.02	0.28	0.013	0.07	11.9	4.8	0.20	460	5.70
ZZ55734		0.63	26.7	2.54	5.25	0.05	<0.02	0.06	0.018	0.09	13.3	6.5	0.17	191	3.89
ZZ55735		1.17	32.9	2.85	6.12	0.06	<0.02	0.04	0.021	0.10	17.2	13.7	0.58	568	2.85
ZZ55736		1.28	32.8	2.20	5.92	<0.05	<0.02	0.04	0.014	0.09	10.5	11.4	0.49	863	1.61
ZZ55737		0.57	33.4	2.30	3.82	0.06	<0.02	0.04	0.013	0.05	17.6	10.8	0.58	391	2.10
ZZ55738		0.71	24.8	2.49	4.50	<0.05	<0.02	0.05	0.017	0.11	12.0	9.0	0.35	1060	1.98
ZZ55739		1.24	33.4	3.33	5.50	0.06	<0.02	0.06	0.025	0.07	17.7	16.8	0.79	531	2.81
ZZ55740		1.22	18.2	1.88	5.18	<0.05	<0.02	0.03	0.008	0.04	10.0	5.3	0.27	313	1.76
ZZ55741		1.02	48.0	2.12	3.67	<0.05	<0.02	0.03	0.018	0.04	12.4	3.8	0.14	883	1.89
ZZ55742		0.82	51.3	1.21	2.87	<0.05	<0.02	0.06	0.007	0.05	7.3	3.2	0.11	252	2.89
ZZ55743		0.86	44.7	2.57	4.91	0.05	<0.02	0.06	0.020	0.09	14.1	5.8	0.31	620	3.29
ZZ55744		1.11	84.8	3.29	5.95	0.05	<0.02	0.03	0.032	0.06	19.3	12.1	0.29	1560	2.60
ZZ55745		1.20	192.0	4.30	3.01	0.08	0.02	0.09	0.044	0.11	18.9	5.7	0.24	1820	7.34
ZZ55746		1.59	117.0	3.29	3.62	0.07	<0.02	0.11	0.026	0.09	21.7	10.7	0.37	1820	3.43
ZZ55747		1.72	164.5	3.62	2.53	0.10	0.02	0.06	0.015	0.09	30.5	6.8	0.39	6110	2.34



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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	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
ZZ55708		0.26	31.4	1010	13.1	8.2	<0.001	0.07	1.02	0.9	0.6	0.5	24.3	<0.01	0.09
ZZ55709		0.26	56.9	940	27.1	8.6	<0.001	0.05	2.40	2.3	0.8	0.5	27.2	<0.01	0.13
ZZ55710		0.24	12.0	610	7.0	4.3	<0.001	0.04	0.42	1.1	0.4	0.2	11.9	<0.01	0.03
ZZ55711		0.27	19.6	880	9.9	5.0	<0.001	0.04	0.58	0.8	0.7	0.4	18.7	<0.01	0.05
ZZ55712		0.25	37.9	1390	15.2	8.9	<0.001	0.08	1.61	1.1	1.6	0.6	42.6	<0.01	0.06
ZZ55713		0.17	19.6	770	8.9	5.6	<0.001	0.04	0.60	0.2	0.7	0.3	18.0	<0.01	0.04
ZZ55714		0.27	47.2	1560	22.3	5.8	0.001	0.09	2.41	2.3	2.1	0.4	74.1	<0.01	0.07
ZZ55715		0.17	38.2	1380	19.2	9.7	0.001	0.14	2.12	0.6	1.3	0.6	51.5	<0.01	0.08
ZZ55716		0.16	19.1	1040	13.8	8.6	<0.001	0.04	1.13	0.2	0.7	0.6	24.4	<0.01	0.06
ZZ55717		0.25	33.4	1310	14.1	9.8	<0.001	0.09	1.28	0.2	1.0	0.6	17.6	<0.01	0.03
ZZ55718		1.04	55.0	1260	17.3	9.9	<0.001	0.05	1.42	3.3	1.6	0.5	30.8	<0.01	0.04
ZZ55719		1.51	31.3	590	13.3	11.2	0.001	0.03	1.04	2.8	0.8	0.7	12.8	<0.01	0.06
ZZ55720		0.73	48.2	880	14.3	11.3	<0.001	0.08	2.76	2.4	1.7	0.5	42.5	<0.01	0.11
ZZ55721		0.74	44.4	910	15.8	11.1	0.001	0.06	1.05	1.6	1.1	0.6	19.3	<0.01	0.06
ZZ55722		0.19	47.3	1450	34.6	9.9	0.001	0.07	1.17	0.4	1.7	0.3	35.6	<0.01	0.17
ZZ55723		0.28	70.1	1100	13.9	11.8	0.001	0.13	4.31	0.8	1.7	0.7	50.0	<0.01	0.13
ZZ55724		0.48	41.8	790	12.7	11.0	<0.001	0.05	1.23	1.2	0.9	0.5	21.1	<0.01	0.06
ZZ55725		0.44	33.7	650	13.0	10.1	<0.001	0.03	0.76	1.4	0.8	0.5	23.8	<0.01	0.09
ZZ55726		0.21	13.1	510	6.5	5.8	<0.001	0.02	0.33	0.2	0.7	0.3	15.0	<0.01	0.03
ZZ55727		0.61	17.4	930	14.3	14.6	<0.001	0.07	0.52	0.5	0.4	0.6	21.5	<0.01	0.04
ZZ55728		0.76	20.8	640	30.0	13.1	<0.001	0.05	0.85	1.0	0.6	0.7	20.4	<0.01	0.05
ZZ55729		0.43	16.0	740	9.1	9.3	<0.001	0.04	0.42	0.7	0.5	0.5	28.9	<0.01	0.03
ZZ55730		0.63	25.4	1180	14.0	11.2	<0.001	0.02	1.72	1.5	1.5	0.7	19.6	<0.01	0.05
ZZ55731		0.48	24.3	1980	13.7	8.1	0.001	0.06	5.70	1.5	6.1	0.4	177.0	<0.01	0.06
ZZ55732		0.53	28.9	2020	22.9	11.3	<0.001	0.13	4.19	1.3	14.0	0.6	131.5	<0.01	0.12
ZZ55733		0.62	15.4	1760	12.0	9.5	0.002	0.04	2.48	0.9	4.0	0.6	34.3	<0.01	0.08
ZZ55734		1.00	18.6	580	15.0	9.1	<0.001	0.03	1.35	1.6	1.4	0.7	24.1	<0.01	0.06
ZZ55735		0.93	35.6	950	14.6	14.9	<0.001	0.03	1.04	1.8	1.2	0.8	25.0	<0.01	0.05
ZZ55736		0.64	27.1	770	10.5	21.3	0.001	0.03	0.59	1.0	0.5	0.6	21.7	<0.01	0.03
ZZ55737		0.81	43.3	480	10.6	5.0	<0.001	0.06	1.03	2.6	0.9	0.4	20.3	<0.01	0.02
ZZ55738		0.76	34.5	630	15.7	11.6	0.001	0.05	0.90	1.3	0.5	0.5	19.5	<0.01	0.04
ZZ55739		1.06	57.5	700	15.2	10.4	<0.001	0.04	1.13	2.7	1.0	0.5	18.3	<0.01	0.05
ZZ55740		0.35	17.5	830	10.5	8.4	<0.001	0.04	0.59	0.3	0.3	0.5	11.6	<0.01	0.04
ZZ55741		0.26	28.6	630	12.0	6.9	0.001	0.03	0.56	0.5	0.9	0.5	13.3	<0.01	0.06
ZZ55742		0.37	15.3	470	7.3	9.1	<0.001	0.04	0.50	0.5	1.1	0.4	18.0	<0.01	0.04
ZZ55743		0.72	40.6	870	21.9	12.5	<0.001	0.06	1.52	1.7	2.0	1.0	116.5	<0.01	0.05
ZZ55744		0.64	38.4	580	21.1	10.7	<0.001	0.03	0.78	3.5	0.9	0.6	12.1	<0.01	0.08
ZZ55745		0.13	66.5	1080	42.4	5.7	0.001	0.17	2.39	5.1	3.7	0.4	96.9	<0.01	0.17
ZZ55746		0.38	53.8	780	37.3	7.8	0.001	0.06	1.23	2.7	2.2	0.4	40.9	<0.01	0.12
ZZ55747		0.12	44.7	780	114.5	4.7	<0.001	0.05	0.77	3.2	1.4	0.7	57.3	<0.01	0.18



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55708		0.012	0.10	0.69	40	0.13	4.05	83	<0.5
ZZ55709		0.015	0.16	0.80	35	0.16	8.67	135	<0.5
ZZ55710		0.020	0.04	0.38	19	0.09	3.91	37	<0.5
ZZ55711		0.019	0.06	0.49	22	0.08	4.94	60	<0.5
ZZ55712		0.008	0.26	1.34	37	0.29	8.11	140	<0.5
ZZ55713		0.012	0.10	1.10	30	0.08	4.07	71	<0.5
ZZ55714		0.010	0.22	1.64	34	0.06	12.00	213	<0.5
ZZ55715		0.007	0.26	0.97	46	0.16	5.24	152	<0.5
ZZ55716		<0.005	0.17	0.53	42	0.29	3.47	86	<0.5
ZZ55717		0.007	0.11	0.79	49	0.14	4.65	106	<0.5
ZZ55718		0.031	0.26	0.99	52	0.21	7.91	83	<0.5
ZZ55719		0.041	0.15	0.59	52	0.33	3.12	67	<0.5
ZZ55720		0.030	0.24	0.85	39	0.27	5.70	159	<0.5
ZZ55721		0.025	0.13	0.90	54	0.20	7.72	82	<0.5
ZZ55722		<0.005	0.12	1.41	21	0.10	12.10	96	<0.5
ZZ55723		0.012	0.25	0.72	30	0.11	6.31	233	<0.5
ZZ55724		0.023	0.11	0.62	46	0.19	4.19	92	<0.5
ZZ55725		0.018	0.09	0.55	33	0.14	5.30	75	<0.5
ZZ55726		0.019	0.04	0.39	34	0.09	2.09	60	<0.5
ZZ55727		0.027	0.09	0.59	46	0.22	2.46	64	<0.5
ZZ55728		0.030	0.10	0.84	43	0.28	4.43	64	<0.5
ZZ55729		0.028	0.07	0.46	38	0.15	3.82	47	<0.5
ZZ55730		0.035	0.14	0.78	54	0.20	3.32	81	<0.5
ZZ55731		0.017	0.37	3.01	57	0.15	9.61	88	0.6
ZZ55732		0.013	0.59	1.68	75	0.14	4.66	119	<0.5
ZZ55733		0.032	0.37	1.78	92	0.37	5.76	50	<0.5
ZZ55734		0.024	0.16	0.57	62	0.22	1.97	65	<0.5
ZZ55735		0.037	0.14	0.69	53	0.30	3.65	80	<0.5
ZZ55736		0.033	0.14	0.42	42	0.20	3.17	59	<0.5
ZZ55737		0.031	0.09	0.79	35	0.19	5.67	72	<0.5
ZZ55738		0.032	0.10	0.54	47	0.24	3.09	66	<0.5
ZZ55739		0.023	0.14	0.68	53	0.40	4.82	90	<0.5
ZZ55740		0.018	0.12	0.46	43	0.16	2.37	46	<0.5
ZZ55741		0.015	0.12	0.48	38	0.10	3.39	90	<0.5
ZZ55742		0.018	0.15	0.64	27	0.11	5.56	36	<0.5
ZZ55743		0.033	0.13	0.61	58	0.27	5.28	94	<0.5
ZZ55744		0.014	0.17	0.73	61	0.15	5.02	102	<0.5
ZZ55745		<0.005	0.81	1.84	43	<0.05	13.45	210	0.5
ZZ55746		0.013	0.26	1.85	33	0.14	16.75	142	<0.5
ZZ55747		<0.005	0.17	1.30	19	0.07	20.7	161	1.4



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ55748		0.28	0.034	0.79	0.73	14.8	<0.2	<10	1740	0.29	0.45	0.34	0.46	42.8	15.0	15
ZZ55749		0.24	0.018	0.28	0.71	6.7	<0.2	<10	860	0.23	0.30	0.05	0.27	28.2	6.4	15
DD011151		0.34	0.004	0.17	0.96	6.7	<0.2	<10	300	0.37	0.15	0.10	0.29	29.1	10.6	22
DD011152		0.26	0.008	0.16	1.17	8.7	<0.2	<10	770	0.44	0.18	0.22	0.28	37.8	12.8	33
DD011153		0.38	0.006	0.24	1.20	10.4	<0.2	<10	300	0.37	0.21	0.21	0.42	47.6	18.7	43
DD011154		0.34	0.003	0.09	0.94	5.7	<0.2	<10	220	0.18	0.14	0.08	0.12	19.55	5.1	21
DD011155		0.30	0.004	0.07	1.20	8.7	<0.2	<10	350	0.29	0.19	0.10	0.15	30.0	9.1	33
DD011156		0.37	0.006	0.40	1.04	9.3	<0.2	<10	690	0.37	0.21	0.12	0.38	31.6	10.4	26
DD011157		0.29	0.011	0.51	0.39	16.5	<0.2	<10	390	0.26	0.22	0.05	0.39	23.8	5.3	12
DD011158		0.29	0.003	0.82	0.50	5.0	<0.2	<10	330	0.18	0.12	0.03	0.23	10.80	3.4	8
DD011159		0.26	0.010	1.52	0.88	6.6	<0.2	<10	560	0.29	0.14	0.10	0.56	13.40	2.4	13
DD011160		0.30	0.006	0.23	0.87	5.3	<0.2	<10	410	0.30	0.13	0.10	0.38	22.0	5.1	19
DD011161		0.27	0.009	0.08	0.46	2.0	<0.2	<10	190	0.13	0.05	0.08	0.13	8.69	3.6	10
DD011162		0.32	0.008	0.18	1.00	7.9	<0.2	<10	600	0.33	0.27	0.12	0.44	28.7	17.6	26
DD011163		0.25	0.009	0.32	1.07	6.4	<0.2	<10	1190	0.42	0.18	0.27	0.40	33.0	15.8	31
DD011164		0.32	0.014	0.08	0.76	4.4	<0.2	<10	1130	0.38	0.25	0.20	0.35	37.9	18.3	23
DD011165		0.29	0.004	0.23	0.96	7.7	<0.2	<10	620	0.33	0.16	0.14	0.31	28.5	10.4	27
DD011166		0.31	0.004	0.24	0.76	7.3	<0.2	<10	380	0.25	0.13	0.06	0.27	22.3	8.1	23
DD011167		0.41	0.007	0.85	0.93	14.4	<0.2	<10	1080	0.47	0.25	0.16	1.08	38.1	13.3	25
DD011168		0.40	0.004	0.13	0.68	5.4	<0.2	<10	200	0.19	0.13	0.08	0.24	23.2	8.6	17
DD011169		0.26	0.004	0.68	0.62	3.5	<0.2	<10	1420	0.20	0.13	0.23	2.81	12.90	2.7	11
DD011170		0.23	0.002	0.30	0.63	2.0	<0.2	<10	250	0.13	0.07	0.06	0.17	9.83	1.9	7
DD011171		0.39	0.004	0.14	0.72	7.0	<0.2	<10	690	0.15	0.15	0.22	0.16	21.5	5.9	17
DD011172		0.38	0.004	0.14	0.79	7.2	<0.2	<10	410	0.20	0.11	0.11	0.17	21.0	6.3	20
DD011173		0.34	0.005	0.49	0.72	5.0	<0.2	<10	340	0.21	0.10	0.05	0.22	14.75	4.0	13
DD011174		0.44	0.023	0.15	0.97	11.3	<0.2	<10	350	0.31	0.19	0.11	0.36	29.1	10.9	26
DD011175		0.39	0.007	0.38	0.92	12.7	<0.2	<10	820	0.24	0.17	0.16	0.47	22.0	4.6	20
DD011176		0.49	0.006	1.02	1.21	11.1	<0.2	<10	1400	0.32	0.20	0.24	1.18	26.8	7.8	26
DD011177		0.45	0.005	0.15	1.04	9.1	<0.2	<10	470	0.29	0.16	0.14	0.26	30.6	6.6	26
DD011178		0.36	0.009	0.09	0.73	9.8	<0.2	<10	230	0.18	0.20	0.03	0.17	23.6	6.2	18
DD011179		0.39	0.004	0.19	0.93	9.1	<0.2	<10	330	0.21	0.20	0.05	0.21	26.8	11.6	28
DD011180		0.34	0.002	0.50	0.77	5.5	<0.2	<10	420	0.15	0.12	0.06	0.21	15.75	2.8	14
DD011181		0.27	0.005	0.11	0.77	7.2	<0.2	<10	320	0.18	0.20	0.03	0.22	26.6	2.6	14
DD011182		0.39	0.005	0.17	1.10	9.4	<0.2	<10	230	0.22	0.22	0.03	0.11	36.5	7.4	22
DD011183		0.35	0.005	0.15	0.92	8.0	<0.2	<10	250	0.16	0.25	0.03	0.07	34.1	7.3	17
DD011184		0.42	0.002	0.42	1.34	13.0	<0.2	<10	140	0.33	0.36	0.06	0.18	27.9	7.5	24
DD011185		0.48	0.007	0.43	1.33	12.9	<0.2	<10	340	0.38	0.34	0.06	0.40	38.6	15.4	27
DD011186		0.42	0.007	0.23	1.17	17.4	<0.2	<10	450	0.32	0.35	0.03	0.37	42.4	9.6	21
DD011187		0.43	0.009	0.56	1.19	16.4	<0.2	<10	500	0.39	0.30	0.11	0.45	30.2	11.2	43
DD011188		0.38	0.007	0.48	0.83	12.3	<0.2	<10	620	0.32	0.22	0.13	0.44	27.2	8.0	22



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CERTIFICATE OF ANALYSIS WH12202867

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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ55748		0.86	196.0	3.10	2.34	0.08	0.03	0.07	0.018	0.12	22.9	5.0	0.33	2950	7.44
ZZ55749		1.18	52.1	2.01	3.65	0.05	<0.02	0.07	0.014	0.07	13.4	2.7	0.13	700	2.04
DD011151		1.28	45.1	2.09	3.49	0.05	<0.02	0.03	0.015	0.05	14.3	8.0	0.28	1060	1.97
DD011152		1.74	70.3	2.85	4.06	0.06	<0.02	0.06	0.022	0.06	18.5	10.0	0.48	1020	2.40
DD011153		1.10	53.5	2.86	4.24	0.07	<0.02	0.04	0.020	0.06	22.8	12.9	0.70	1380	2.30
DD011154		0.92	21.7	1.81	4.03	<0.05	<0.02	0.03	0.012	0.05	9.1	7.5	0.30	317	1.15
DD011155		1.13	37.8	2.48	5.38	0.05	<0.02	0.02	0.018	0.06	14.4	9.4	0.44	669	2.08
DD011156		0.95	72.4	2.51	4.38	0.05	<0.02	0.03	0.015	0.07	15.3	8.9	0.36	978	3.72
DD011157		0.55	90.6	2.24	1.56	0.05	<0.02	0.06	0.022	0.05	9.9	2.1	0.08	287	6.22
DD011158		0.53	28.5	0.96	2.24	<0.05	<0.02	0.03	0.006	0.04	5.9	1.1	0.03	361	3.06
DD011159		0.98	31.5	1.13	3.21	<0.05	<0.02	0.09	0.010	0.05	6.3	3.0	0.10	167	2.05
DD011160		1.08	44.1	1.59	3.85	<0.05	<0.02	0.05	0.009	0.06	11.3	5.3	0.21	302	1.26
DD011161		0.61	13.7	1.15	2.65	<0.05	<0.02	0.03	<0.005	0.04	4.1	2.7	0.12	290	0.46
DD011162		1.75	116.5	2.84	4.15	<0.05	<0.02	0.06	0.021	0.07	11.0	8.9	0.39	2210	3.49
DD011163		1.69	83.6	3.09	4.22	0.05	<0.02	0.05	0.022	0.09	13.6	9.0	0.58	1590	3.06
DD011164		0.76	129.0	2.71	2.96	0.06	<0.02	0.05	0.017	0.06	14.3	8.7	0.39	2560	2.72
DD011165		1.28	57.8	2.34	4.01	0.05	<0.02	0.04	0.012	0.06	13.0	8.1	0.35	1080	2.02
DD011166		1.08	45.7	2.03	3.19	<0.05	<0.02	0.04	0.010	0.05	9.8	5.9	0.30	639	2.09
DD011167		2.43	75.6	2.92	3.40	0.06	<0.02	0.11	0.022	0.09	18.5	8.2	0.29	1530	6.33
DD011168		0.67	49.0	1.83	3.01	<0.05	<0.02	0.03	0.008	0.04	9.7	5.4	0.27	993	1.86
DD011169		1.10	29.6	1.17	2.53	<0.05	<0.02	0.08	0.008	0.06	7.1	2.2	0.07	179	3.38
DD011170		0.58	10.2	0.77	2.66	<0.05	<0.02	0.03	<0.005	0.03	5.1	2.4	0.06	116	0.66
DD011171		0.78	20.1	1.53	3.71	<0.05	<0.02	0.02	0.007	0.05	10.5	5.1	0.23	332	1.93
DD011172		0.87	21.0	1.71	3.38	<0.05	<0.02	0.03	0.010	0.05	9.7	6.9	0.26	323	1.94
DD011173		0.81	21.6	1.26	2.66	<0.05	<0.02	0.09	0.009	0.04	7.1	4.9	0.15	228	1.49
DD011174		0.78	40.7	2.64	3.21	0.05	<0.02	0.03	0.020	0.05	14.1	8.6	0.38	894	2.17
DD011175		1.08	28.1	1.83	3.97	0.05	<0.02	0.07	0.013	0.05	11.1	7.2	0.24	271	2.10
DD011176		1.47	49.1	1.91	4.30	0.06	<0.02	0.16	0.017	0.05	16.1	8.6	0.27	717	2.78
DD011177		0.88	31.5	1.96	3.87	0.05	<0.02	0.07	0.013	0.06	16.5	8.4	0.37	353	2.24
DD011178		1.04	23.2	1.84	4.81	<0.05	<0.02	0.03	0.009	0.04	11.1	3.0	0.15	819	3.36
DD011179		0.77	45.8	2.24	4.57	0.05	<0.02	0.02	0.014	0.06	13.0	5.9	0.42	1220	1.96
DD011180		0.73	17.4	1.14	3.52	<0.05	<0.02	0.05	<0.005	0.04	7.8	4.1	0.11	122	1.15
DD011181		1.07	25.5	1.30	4.70	0.05	<0.02	0.03	0.005	0.05	13.7	2.3	0.09	142	1.79
DD011182		1.28	34.4	2.02	5.78	<0.05	<0.02	0.04	0.017	0.05	18.1	7.6	0.27	628	1.99
DD011183		1.38	25.6	2.40	6.23	0.05	<0.02	0.04	0.011	0.05	16.5	3.2	0.17	1080	1.84
DD011184		1.00	17.4	2.62	6.47	0.08	0.02	0.03	0.027	0.05	13.9	10.2	0.21	529	1.88
DD011185		1.10	40.0	3.06	5.04	0.08	0.02	0.04	0.036	0.06	18.0	10.8	0.38	1410	2.75
DD011186		0.90	65.1	2.80	4.51	0.07	0.02	0.04	0.032	0.06	20.2	8.0	0.34	747	2.50
DD011187		1.29	31.1	2.93	5.67	0.08	<0.02	0.11	0.041	0.08	14.6	11.3	0.50	893	3.68
DD011188		0.87	41.3	2.11	3.02	0.06	<0.02	0.07	0.028	0.07	13.8	7.0	0.32	499	3.26



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
ZZ55748		0.12	48.1	780	62.6	4.6	0.001	0.08	2.20	2.2	1.5	0.9	59.6	<0.01	0.12
ZZ55749		0.34	17.0	910	28.4	7.2	<0.001	0.05	0.61	0.7	0.6	0.5	14.6	<0.01	0.08
DD011151		0.38	26.6	640	10.7	6.9	<0.001	0.02	0.73	1.7	0.7	0.4	12.1	<0.01	0.05
DD011152		0.35	38.5	840	12.6	6.2	<0.001	0.03	1.18	3.6	0.8	0.4	21.9	<0.01	0.06
DD011153		0.64	48.7	930	27.0	5.8	<0.001	0.02	1.04	3.3	0.7	0.5	22.0	<0.01	0.05
DD011154		0.40	14.8	470	8.1	6.4	<0.001	0.02	0.38	0.8	0.3	0.5	8.5	<0.01	0.01
DD011155		0.59	27.2	530	13.7	6.8	<0.001	0.02	0.72	1.6	0.6	0.6	10.5	<0.01	0.06
DD011156		0.28	32.4	770	14.5	6.4	<0.001	0.05	1.58	0.9	1.4	0.8	39.6	<0.01	0.09
DD011157		0.11	25.0	900	14.6	3.4	0.002	0.06	3.37	1.9	2.0	0.3	75.7	<0.01	0.14
DD011158		0.11	9.3	740	7.8	3.6	<0.001	0.04	0.89	0.2	1.1	0.3	26.9	<0.01	0.04
DD011159		0.15	10.7	1310	7.9	6.9	<0.001	0.07	0.88	0.1	0.8	0.4	40.2	<0.01	0.02
DD011160		0.33	17.5	620	8.8	7.9	<0.001	0.03	0.45	0.8	0.5	0.4	12.9	<0.01	0.03
DD011161		0.15	8.7	380	3.3	3.8	<0.001	0.02	0.11	0.2	0.4	0.2	9.6	<0.01	<0.01
DD011162		0.27	44.0	740	19.4	6.5	<0.001	0.05	0.78	1.8	0.8	0.6	18.3	<0.01	0.11
DD011163		0.14	39.3	880	12.9	6.0	<0.001	0.07	1.15	1.3	1.3	0.4	33.9	<0.01	0.07
DD011164		0.22	50.3	670	26.2	3.6	<0.001	0.03	0.63	2.5	0.6	1.1	26.3	<0.01	0.08
DD011165		0.27	32.9	810	12.1	6.7	<0.001	0.04	0.81	1.0	0.8	0.5	20.9	<0.01	0.08
DD011166		0.27	27.3	790	10.5	6.4	<0.001	0.05	0.80	0.7	0.7	0.5	15.5	<0.01	0.03
DD011167		0.24	44.0	1540	24.2	8.1	<0.001	0.08	2.64	2.0	2.2	0.6	72.4	<0.01	0.09
DD011168		0.21	25.7	770	9.1	4.7	<0.001	0.03	0.61	0.5	0.4	0.4	13.3	<0.01	0.03
DD011169		0.18	14.7	1300	12.7	8.1	<0.001	0.10	1.19	0.1	1.3	0.5	55.2	<0.01	0.04
DD011170		0.21	4.5	590	3.8	3.5	<0.001	0.03	0.18	0.2	0.3	0.3	9.0	<0.01	<0.01
DD011171		0.31	17.0	500	12.9	5.6	<0.001	0.03	0.70	0.6	0.4	0.4	25.6	<0.01	0.04
DD011172		0.35	17.4	680	11.0	6.2	<0.001	0.03	0.65	0.6	0.8	0.4	17.3	<0.01	0.03
DD011173		0.21	11.7	720	22.0	6.1	<0.001	0.04	0.74	0.2	0.7	0.3	17.2	<0.01	0.04
DD011174		0.55	32.1	820	15.9	5.3	<0.001	0.03	1.04	1.8	1.0	0.4	23.6	<0.01	0.05
DD011175		0.42	15.5	650	12.7	8.2	<0.001	0.03	0.69	0.8	0.8	0.8	21.2	<0.01	0.03
DD011176		0.29	19.8	1220	20.0	12.1	0.001	0.06	0.94	0.8	2.0	0.5	33.7	<0.01	0.03
DD011177		0.48	23.6	760	12.9	5.9	<0.001	0.02	0.78	1.4	0.7	0.4	18.9	<0.01	0.03
DD011178		0.22	13.8	820	12.1	8.4	<0.001	0.03	0.71	0.3	0.4	0.6	8.7	<0.01	0.04
DD011179		0.30	27.1	510	17.1	6.3	<0.001	0.02	0.77	1.0	0.3	0.5	12.3	<0.01	0.06
DD011180		0.27	10.2	480	6.1	5.1	<0.001	0.03	0.32	0.3	0.4	0.4	10.7	<0.01	<0.01
DD011181		0.28	10.1	520	8.8	9.7	<0.001	0.02	0.44	0.3	0.3	0.6	8.4	<0.01	0.07
DD011182		0.58	19.8	440	13.5	9.9	<0.001	0.02	0.74	1.1	0.6	0.6	10.4	<0.01	0.05
DD011183		0.59	12.4	680	16.5	13.0	<0.001	0.02	0.55	1.0	0.7	0.7	7.6	<0.01	0.05
DD011184		1.51	14.0	480	15.2	10.4	<0.001	0.03	0.76	1.9	0.3	0.8	8.4	<0.01	0.05
DD011185		0.84	27.5	670	23.1	10.8	<0.001	0.04	0.99	2.5	0.7	0.6	12.9	0.01	0.06
DD011186		0.38	29.6	680	25.0	9.4	<0.001	0.05	1.19	1.9	0.6	0.5	21.8	<0.01	0.09
DD011187		0.59	29.3	1690	19.6	13.5	0.001	0.08	1.75	1.8	2.5	0.7	36.8	<0.01	0.04
DD011188		0.23	24.9	1040	16.8	5.8	<0.001	0.08	1.75	1.0	1.3	0.3	34.1	<0.01	0.07



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ55748		<0.005	0.26	1.33	17	0.07	13.60	174	1.4
ZZ55749		0.012	0.11	0.53	35	0.07	2.82	68	<0.5
DD011151		0.025	0.09	0.60	35	0.30	4.69	69	<0.5
DD011152		0.034	0.12	1.10	51	0.15	10.05	99	<0.5
DD011153		0.032	0.13	0.69	39	0.19	6.99	98	0.5
DD011154		0.029	0.07	0.44	37	0.17	2.46	50	<0.5
DD011155		0.032	0.10	0.51	50	0.28	3.68	71	<0.5
DD011156		0.012	0.11	0.95	42	0.13	6.02	90	<0.5
DD011157		<0.005	0.15	1.41	33	0.06	5.52	100	<0.5
DD011158		0.005	0.14	0.59	40	0.08	2.85	43	<0.5
DD011159		<0.005	0.13	1.30	32	0.08	3.65	42	<0.5
DD011160		0.025	0.07	0.53	36	0.14	5.07	44	<0.5
DD011161		0.027	0.04	0.27	30	0.06	1.80	24	<0.5
DD011162		0.012	0.08	0.70	34	0.10	5.02	122	<0.5
DD011163		0.013	0.13	0.71	56	0.10	6.77	104	<0.5
DD011164		0.009	0.07	0.67	25	0.10	7.12	108	<0.5
DD011165		0.020	0.08	0.69	36	0.11	7.09	80	<0.5
DD011166		0.012	0.08	0.62	30	0.12	3.26	78	<0.5
DD011167		0.009	0.47	2.00	47	0.17	9.42	164	<0.5
DD011168		0.012	0.06	0.42	23	0.08	2.97	66	<0.5
DD011169		<0.005	0.31	1.26	31	0.07	5.46	63	<0.5
DD011170		0.017	0.08	0.42	20	0.07	2.02	18	<0.5
DD011171		0.018	0.12	0.38	31	0.13	2.36	59	<0.5
DD011172		0.018	0.10	0.45	31	0.11	2.59	59	<0.5
DD011173		0.010	0.15	0.65	24	0.14	2.84	49	<0.5
DD011174		0.021	0.12	0.62	32	0.13	4.05	95	<0.5
DD011175		0.021	0.12	0.75	38	0.21	5.67	72	<0.5
DD011176		0.012	0.20	1.70	40	0.14	13.80	95	<0.5
DD011177		0.024	0.12	0.80	37	0.18	5.14	65	<0.5
DD011178		0.016	0.14	0.51	41	0.14	2.30	48	<0.5
DD011179		0.020	0.10	0.47	39	0.12	3.14	67	<0.5
DD011180		0.017	0.09	0.48	30	0.14	2.61	31	<0.5
DD011181		0.013	0.11	0.56	36	0.16	2.86	39	<0.5
DD011182		0.017	0.13	0.42	39	0.14	2.58	59	<0.5
DD011183		0.029	0.14	0.42	50	0.18	2.41	64	<0.5
DD011184		0.038	0.16	0.50	60	0.31	2.13	63	0.5
DD011185		0.024	0.16	0.61	42	0.19	4.03	132	1.0
DD011186		0.011	0.18	0.66	37	0.11	4.00	143	<0.5
DD011187		0.032	0.43	1.58	54	0.20	4.29	71	<0.5
DD011188		0.016	0.30	1.07	36	0.24	4.81	83	<0.5



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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202867

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
DD011189		0.30	0.013	0.63	0.80	17.3	<0.2	<10	2750	0.36	0.26	0.16	0.86	27.9	8.3	22
DD011190		0.37	0.007	0.50	0.77	14.7	<0.2	<10	1540	0.27	0.27	0.02	0.23	26.0	4.9	19
DD011191		0.42	0.239	1.02	0.80	231	0.2	<10	1880	0.37	0.50	0.04	1.18	41.8	9.8	16
DD011192		0.48	0.269	3.11	0.49	111.5	<0.2	<10	100	0.22	0.91	0.09	0.19	57.7	3.4	22
DD011193		0.29	0.008	0.23	1.07	17.1	<0.2	<10	1130	0.45	0.20	0.20	1.16	35.6	14.4	37
DD011194		0.37	0.006	0.82	0.76	6.7	<0.2	<10	1170	0.26	0.16	0.30	0.24	17.20	5.1	19
DD011195		0.31	0.015	0.62	0.45	14.7	<0.2	<10	390	0.41	0.32	0.10	1.02	28.7	24.5	14
DD011196		0.31	0.021	0.69	0.58	18.3	<0.2	<10	1590	0.36	0.31	0.15	2.75	28.8	22.7	13
DD011197		0.36	0.016	2.41	0.54	23.0	<0.2	<10	1060	0.43	0.34	0.16	2.03	27.6	18.0	19
DD011198		0.22	0.014	0.43	0.50	8.1	<0.2	<10	770	0.24	0.26	0.04	0.41	20.9	11.1	15
DD011199		0.36	0.010	0.07	0.46	3.9	<0.2	<10	580	0.15	0.17	0.08	0.18	15.05	8.5	12
DD011200		0.29	0.019	0.23	0.58	5.0	<0.2	<10	2040	0.24	0.21	0.13	0.69	21.1	21.5	14
ZZ46789		0.22	0.003	0.51	0.86	4.5	<0.2	<10	440	0.21	0.15	0.19	0.23	20.7	7.0	23
ZZ46790		0.16	0.003	0.33	1.06	4.4	<0.2	<10	930	0.34	0.16	0.32	0.30	26.1	8.0	24
ZZ46791		0.24	0.003	0.40	1.19	8.2	<0.2	<10	380	0.34	0.23	0.09	0.16	25.6	6.7	24
ZZ46792		0.24	0.002	0.14	0.98	13.3	<0.2	<10	140	0.19	0.27	0.06	0.12	24.7	4.2	20
ZZ46793		0.27	0.004	0.13	1.57	13.6	<0.2	<10	410	0.41	0.24	0.14	0.19	32.7	9.5	45
ZZ46794		0.31	0.005	0.31	1.12	9.8	<0.2	<10	920	0.40	0.21	0.38	0.29	31.3	8.9	23
ZZ46795		0.25	0.004	0.11	1.08	13.1	<0.2	<10	380	0.23	0.31	0.06	0.13	33.7	6.3	21
ZZ46796		0.33	0.004	0.08	1.64	9.5	<0.2	<10	360	0.43	0.26	0.06	0.21	26.3	8.6	30
ZZ46797		0.22	0.003	0.18	0.40	1.2	<0.2	<10	140	0.07	0.06	0.07	0.09	6.23	0.9	4
ZZ46798		0.31	0.014	0.37	0.91	25.6	<0.2	<10	410	0.51	0.28	0.10	0.87	30.9	11.4	20
ZZ46799		0.26	0.003	0.34	1.16	6.9	<0.2	<10	820	0.47	0.15	1.09	0.52	29.6	9.7	30
ZZ46800		0.31	0.008	0.62	1.17	10.6	<0.2	<10	920	0.43	0.17	0.61	0.39	26.9	7.8	26
ZZ46801		0.27	0.002	0.28	0.66	5.3	<0.2	<10	100	0.10	0.18	0.04	0.13	18.15	1.5	9
ZZ46802		0.24	0.005	0.47	1.10	8.2	<0.2	<10	550	0.37	0.21	0.60	0.78	43.1	8.7	19
ZZ46803		0.24	0.007	0.25	1.06	11.2	<0.2	<10	290	0.26	0.21	0.10	0.18	41.0	16.8	32
ZZ46804		0.18	0.004	0.20	0.97	6.4	<0.2	<10	190	0.26	0.19	0.05	0.17	27.8	7.7	23
ZZ46805		0.20	0.001	0.08	0.93	9.2	<0.2	<10	150	0.16	0.24	0.05	0.07	23.3	2.5	15
ZZ46806		0.21	0.003	1.21	0.69	4.3	<0.2	<10	500	0.22	0.09	0.17	0.09	15.65	3.4	15
ZZ46807		0.31	0.002	0.53	0.84	4.9	<0.2	<10	440	0.22	0.17	0.18	0.30	24.7	5.9	13
ZZ46808		0.18	0.003	0.28	0.80	3.2	<0.2	<10	260	0.15	0.12	0.06	0.11	13.05	2.0	14
ZZ46809		0.19	0.001	0.09	0.74	6.8	<0.2	<10	90	0.08	0.21	0.03	0.04	19.25	2.7	12
ZZ46810		0.18	0.003	0.09	1.38	9.1	<0.2	<10	430	0.27	0.21	0.12	0.18	24.2	4.6	23
ZZ46811		0.24	0.003	0.33	1.01	7.8	<0.2	<10	750	0.22	0.16	0.13	0.13	22.3	3.7	22
ZZ46812		0.25	0.004	0.16	0.47	1.3	<0.2	<10	180	0.10	0.07	0.04	0.05	7.20	1.0	6
ZZ46813		0.26	0.003	0.11	0.63	3.4	<0.2	<10	110	0.07	0.17	0.04	0.02	19.35	1.3	9
ZZ46814		0.20	0.003	0.22	0.84	3.6	<0.2	<10	310	0.18	0.12	0.06	0.11	14.00	1.8	12
ZZ46815		0.22	0.003	0.15	1.34	18.2	<0.2	<10	740	0.32	0.28	0.05	0.24	32.8	9.5	26
ZZ46816		0.32	0.002	0.46	1.56	9.8	<0.2	<10	1410	0.33	0.23	0.32	0.26	34.0	7.9	29



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Project: ROSE

CERTIFICATE OF ANALYSIS WH12202867

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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD011189		1.09	46.1	2.98	3.08	0.06	<0.02	0.13	0.036	0.06	12.7	7.3	0.25	582	4.69
DD011190		0.89	43.8	3.01	3.73	0.05	<0.02	0.08	0.052	0.05	12.4	4.1	0.15	196	4.06
DD011191		1.25	132.0	6.51	3.24	0.08	0.02	0.14	0.098	0.07	19.3	5.1	0.12	322	7.07
DD011192		0.74	100.5	11.55	5.71	0.12	0.15	0.13	0.149	0.54	27.8	3.3	0.03	101	28.7
DD011193		1.04	52.3	3.03	3.63	0.05	0.05	0.05	0.030	0.06	16.5	10.2	0.53	807	2.58
DD011194		0.73	25.9	1.60	2.73	<0.05	<0.02	0.10	0.032	0.05	9.2	4.2	0.22	244	1.44
DD011195		3.27	101.5	3.61	2.20	0.05	0.02	0.06	0.044	0.07	13.4	2.9	0.12	1400	4.48
DD011196		2.83	115.5	3.97	2.08	0.07	0.02	0.13	0.043	0.09	13.6	3.2	0.09	1940	10.05
DD011197		1.82	101.0	4.09	2.33	0.07	<0.02	0.43	0.044	0.14	13.7	4.1	0.09	1240	20.2
DD011198		2.45	93.0	2.66	2.73	<0.05	<0.02	0.06	0.027	0.06	9.7	1.1	0.06	1680	2.88
DD011199		1.48	61.0	1.79	2.72	<0.05	<0.02	0.04	0.018	0.04	6.5	2.8	0.10	1470	1.48
DD011200		1.65	135.5	2.30	2.55	0.05	<0.02	0.13	0.021	0.07	7.5	3.9	0.13	3860	1.85
ZZ46789		0.88	17.2	1.23	3.32	<0.05	<0.02	0.07	0.016	0.05	10.0	6.8	0.32	1060	0.99
ZZ46790		1.02	31.3	1.44	4.09	<0.05	<0.02	0.07	0.021	0.05	14.2	8.6	0.33	960	1.09
ZZ46791		1.17	30.7	1.90	5.61	0.05	<0.02	0.05	0.023	0.05	13.3	11.9	0.31	491	1.41
ZZ46792		0.92	16.0	2.41	5.96	<0.05	<0.02	0.03	0.018	0.05	12.0	8.3	0.23	237	1.64
ZZ46793		1.19	39.2	3.11	5.88	0.05	<0.02	0.03	0.031	0.06	15.1	18.1	0.70	399	2.12
ZZ46794		1.32	52.7	2.32	4.36	0.05	<0.02	0.06	0.028	0.06	15.8	11.8	0.36	714	1.86
ZZ46795		1.17	29.0	2.77	7.03	0.05	<0.02	0.03	0.024	0.05	16.8	5.7	0.21	432	2.94
ZZ46796		1.00	25.4	3.01	6.39	0.05	0.03	0.04	0.029	0.05	12.7	21.0	0.31	610	1.81
ZZ46797		0.43	8.6	0.57	2.56	<0.05	<0.02	0.04	0.009	0.02	3.2	1.0	0.03	40	0.39
ZZ46798		1.43	68.5	3.22	3.13	0.05	0.04	0.07	0.033	0.05	16.3	6.8	0.22	734	7.66
ZZ46799		0.93	39.6	1.91	4.01	0.06	0.06	0.08	0.024	0.05	16.8	10.9	0.46	708	1.22
ZZ46800		1.03	50.3	2.11	3.77	0.05	0.06	0.08	0.026	0.08	14.7	9.6	0.43	538	1.74
ZZ46801		0.70	9.4	0.88	4.95	<0.05	<0.02	0.03	0.009	0.03	9.7	1.9	0.06	93	0.99
ZZ46802		0.99	42.9	2.65	3.06	0.07	0.06	0.11	0.024	0.06	23.6	13.5	0.42	385	2.08
ZZ46803		0.72	46.4	2.60	4.07	0.05	<0.02	0.02	0.024	0.05	18.1	9.4	0.55	1220	2.19
ZZ46804		0.86	27.0	1.49	5.50	<0.05	<0.02	0.03	0.019	0.04	13.7	6.0	0.26	533	1.78
ZZ46805		0.93	13.6	1.92	6.78	<0.05	<0.02	0.02	0.017	0.04	11.5	5.0	0.14	157	1.44
ZZ46806		0.88	46.8	0.89	2.59	<0.05	<0.02	0.09	0.014	0.04	9.6	4.1	0.12	808	0.88
ZZ46807		0.90	43.6	1.22	4.24	<0.05	<0.02	0.05	0.015	0.04	12.8	5.7	0.13	1610	1.55
ZZ46808		1.12	39.2	0.90	3.36	<0.05	<0.02	0.03	0.011	0.04	7.0	5.2	0.16	100	0.92
ZZ46809		0.64	8.6	1.37	5.36	<0.05	<0.02	0.03	0.008	0.03	9.2	1.6	0.07	336	1.14
ZZ46810		0.89	25.4	2.11	6.38	<0.05	<0.02	0.03	0.014	0.04	11.2	9.7	0.24	487	1.38
ZZ46811		0.85	30.9	1.69	4.61	<0.05	<0.02	0.05	0.015	0.05	13.0	6.1	0.25	175	1.23
ZZ46812		0.47	9.3	0.58	2.10	<0.05	<0.02	0.04	0.006	0.03	3.7	1.3	0.05	36	0.50
ZZ46813		0.77	10.4	0.64	5.05	<0.05	<0.02	0.02	0.007	0.03	9.1	1.4	0.06	55	1.10
ZZ46814		0.76	22.6	0.98	3.79	<0.05	<0.02	0.03	0.009	0.04	7.1	3.3	0.10	141	0.96
ZZ46815		0.84	42.8	2.79	6.83	0.05	0.03	0.04	0.021	0.07	14.4	10.4	0.28	640	2.61
ZZ46816		0.92	43.9	2.54	6.01	<0.05	<0.02	0.05	0.023	0.06	17.7	11.1	0.43	1040	1.82



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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	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
DD011189		0.28	30.9	830	17.2	6.4	0.001	0.13	2.34	1.6	1.9	0.5	46.8	<0.01	0.10
DD011190		0.50	19.6	710	24.4	7.7	<0.001	0.10	1.45	1.5	0.7	0.4	18.6	<0.01	0.07
DD011191		0.17	39.1	1150	35.1	4.4	<0.001	0.15	4.19	5.2	2.6	0.4	54.1	<0.01	0.30
DD011192		0.05	20.8	1450	53.0	15.0	0.001	1.09	7.38	5.2	8.5	0.9	137.5	<0.01	0.68
DD011193		0.44	43.5	1030	18.0	8.1	<0.001	0.07	1.69	3.5	1.0	0.5	35.4	<0.01	0.06
DD011194		0.14	18.1	650	15.4	5.1	<0.001	0.06	0.87	0.7	0.8	0.3	23.2	<0.01	0.04
DD011195		0.07	81.5	1380	24.8	6.1	0.001	0.07	2.45	1.3	2.0	0.5	42.3	<0.01	0.12
DD011196		0.07	78.4	1590	29.7	6.9	0.002	0.11	3.62	1.9	2.5	0.5	67.7	<0.01	0.18
DD011197		0.07	67.8	1850	25.4	7.3	0.004	0.25	6.57	2.2	4.9	0.5	179.5	<0.01	0.18
DD011198		0.08	41.5	1660	14.0	8.0	<0.001	0.11	1.28	0.3	0.3	0.5	12.0	<0.01	0.13
DD011199		0.11	22.3	660	9.2	4.2	<0.001	0.05	0.56	0.7	<0.2	0.5	15.0	<0.01	0.07
DD011200		0.09	35.0	1100	18.9	6.6	<0.001	0.11	0.89	0.8	0.7	0.6	25.0	<0.01	0.06
ZZ46789		0.30	17.3	620	9.8	7.3	<0.001	0.05	0.32	1.4	<0.2	0.3	22.8	<0.01	<0.01
ZZ46790		0.36	19.7	600	12.4	8.6	<0.001	0.05	0.41	1.0	0.3	0.4	44.6	<0.01	0.02
ZZ46791		0.72	13.8	420	16.3	10.6	<0.001	0.03	0.44	1.5	<0.2	0.6	12.1	<0.01	0.04
ZZ46792		1.10	12.8	370	11.8	8.3	<0.001	0.04	0.90	1.5	0.5	0.7	10.0	<0.01	0.03
ZZ46793		1.00	39.2	610	14.9	10.8	<0.001	0.04	1.16	2.8	0.4	0.7	14.7	<0.01	0.05
ZZ46794		0.36	29.4	790	14.3	8.9	<0.001	0.06	1.21	1.5	1.0	0.4	49.0	<0.01	0.05
ZZ46795		1.31	15.0	410	16.0	9.4	<0.001	0.04	1.18	1.9	0.2	0.8	12.8	<0.01	0.05
ZZ46796		1.31	18.6	370	15.1	11.0	<0.001	0.03	0.92	2.7	0.3	0.7	7.0	<0.01	0.03
ZZ46797		0.20	2.3	360	2.7	2.5	<0.001	0.04	0.12	0.2	<0.2	0.2	12.7	<0.01	<0.01
ZZ46798		0.26	42.9	1120	17.9	6.8	0.001	0.06	6.00	2.7	2.2	0.4	43.5	<0.01	0.10
ZZ46799		0.68	29.8	910	11.5	6.7	<0.001	0.07	0.86	2.8	0.8	0.4	49.8	<0.01	0.02
ZZ46800		0.49	32.2	860	11.3	7.8	0.001	0.06	1.85	2.7	0.7	0.4	46.6	<0.01	0.03
ZZ46801		0.31	4.9	340	6.1	5.5	<0.001	0.04	0.54	0.3	<0.2	0.6	7.4	<0.01	0.03
ZZ46802		0.24	32.9	830	19.6	6.3	0.002	0.05	2.03	2.7	1.3	0.3	45.6	<0.01	0.04
ZZ46803		0.36	37.1	720	15.8	5.2	<0.001	0.03	1.37	2.2	0.5	0.3	12.5	<0.01	0.06
ZZ46804		0.22	16.7	530	11.4	6.0	0.001	0.04	0.55	0.5	<0.2	0.6	7.5	<0.01	0.04
ZZ46805		1.13	6.5	260	9.7	7.8	<0.001	0.03	0.55	1.2	<0.2	0.7	7.0	<0.01	0.03
ZZ46806		0.17	9.6	760	4.3	7.0	<0.001	0.07	0.37	0.7	0.9	0.3	32.2	<0.01	0.02
ZZ46807		0.33	9.7	470	10.2	10.9	<0.001	0.04	0.35	0.9	0.5	0.5	29.8	<0.01	0.01
ZZ46808		0.37	7.7	530	7.1	8.7	<0.001	0.03	0.23	0.5	0.4	0.3	12.1	<0.01	0.01
ZZ46809		0.72	4.0	320	9.3	5.1	<0.001	0.01	0.38	0.6	0.2	0.6	5.2	<0.01	0.04
ZZ46810		0.94	10.9	410	10.8	8.1	<0.001	0.01	0.50	1.6	1.0	0.6	20.8	<0.01	0.03
ZZ46811		0.46	15.2	390	8.6	7.7	<0.001	0.02	0.48	1.2	0.8	0.4	21.4	<0.01	0.01
ZZ46812		0.12	3.1	310	3.4	4.0	<0.001	0.02	0.10	0.2	0.4	0.2	7.3	<0.01	<0.01
ZZ46813		0.26	4.1	240	6.8	5.4	<0.001	0.02	0.27	0.4	0.3	0.5	6.4	<0.01	0.03
ZZ46814		0.25	5.6	460	7.8	6.4	<0.001	0.03	0.26	0.3	0.5	0.3	12.3	<0.01	0.02
ZZ46815		1.16	23.9	390	19.6	9.1	<0.001	0.03	1.15	2.6	0.6	0.6	18.3	<0.01	0.08
ZZ46816		0.68	19.4	400	15.2	8.5	0.001	0.02	0.74	2.1	0.9	0.5	57.7	<0.01	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD011189		0.015	0.26	1.42	37	0.14	6.59	106	<0.5
DD011190		0.016	0.25	0.85	36	0.12	2.29	80	<0.5
DD011191		0.009	1.11	8.70	34	0.06	9.65	157	1.1
DD011192		<0.005	6.61	1.61	97	<0.05	3.70	115	9.4
DD011193		0.017	0.19	0.86	40	0.11	7.43	144	1.3
DD011194		0.019	0.14	0.60	33	0.08	5.60	52	<0.5
DD011195		0.005	0.16	1.56	31	0.05	7.40	334	0.5
DD011196		0.006	0.24	1.94	28	0.06	15.35	400	0.5
DD011197		<0.005	0.68	3.68	71	0.08	13.35	374	<0.5
DD011198		<0.005	0.16	0.91	32	0.09	3.57	151	<0.5
DD011199		0.025	0.05	0.36	30	0.07	3.01	63	<0.5
DD011200		0.011	0.10	0.55	25	0.06	6.87	87	<0.5
ZZ46789		0.016	0.11	0.68	25	0.09	3.28	45	<0.5
ZZ46790		0.016	0.12	0.66	27	0.13	6.83	54	<0.5
ZZ46791		0.032	0.12	0.62	44	0.23	3.79	45	<0.5
ZZ46792		0.046	0.10	0.44	52	0.27	1.86	53	<0.5
ZZ46793		0.036	0.13	0.61	49	0.19	4.48	84	<0.5
ZZ46794		0.023	0.14	0.84	36	0.12	7.18	119	<0.5
ZZ46795		0.048	0.15	0.60	60	0.33	2.99	59	<0.5
ZZ46796		0.037	0.12	0.47	59	0.28	1.96	73	0.9
ZZ46797		0.019	0.04	0.24	16	0.06	0.66	16	<0.5
ZZ46798		0.009	0.22	1.46	40	0.14	7.57	175	1.0
ZZ46799		0.029	0.10	0.93	29	0.10	10.70	71	1.7
ZZ46800		0.020	0.12	0.94	30	0.09	9.13	94	1.9
ZZ46801		0.021	0.10	0.38	30	0.16	1.33	21	<0.5
ZZ46802		0.009	0.12	1.49	21	0.06	13.00	199	1.3
ZZ46803		0.016	0.09	0.48	35	0.09	3.75	78	<0.5
ZZ46804		0.014	0.09	0.44	33	0.13	2.53	35	<0.5
ZZ46805		0.049	0.10	0.39	62	0.31	1.75	27	<0.5
ZZ46806		0.016	0.09	1.21	20	0.10	5.99	28	<0.5
ZZ46807		0.028	0.13	0.90	32	0.19	5.14	35	<0.5
ZZ46808		0.019	0.08	0.69	22	0.17	2.24	27	<0.5
ZZ46809		0.041	0.07	0.32	56	0.23	1.17	19	<0.5
ZZ46810		0.042	0.09	0.53	55	0.30	3.88	43	<0.5
ZZ46811		0.025	0.09	0.57	38	0.15	7.24	40	<0.5
ZZ46812		0.019	0.04	0.25	18	0.07	1.51	13	<0.5
ZZ46813		0.022	0.07	0.27	32	0.17	1.14	17	<0.5
ZZ46814		0.018	0.07	0.41	27	0.14	2.07	24	<0.5
ZZ46815		0.034	0.12	0.54	60	0.23	2.88	72	1.0
ZZ46816		0.027	0.09	0.58	50	0.20	5.52	74	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ46817		0.26	0.005	0.56	0.95	8.0	<0.2	<10	890	0.25	0.17	0.21	0.22	22.7	6.4	23
ZZ46818		0.21	0.010	1.10	1.13	7.4	<0.2	<10	1070	0.31	0.21	0.25	0.40	21.1	6.4	24
ZZ46819		0.29	0.005	0.85	0.85	4.7	<0.2	<10	640	0.21	0.12	0.20	0.45	16.85	4.3	19
ZZ46820		0.32	0.006	1.28	1.37	7.3	<0.2	<10	1050	0.43	0.23	0.14	0.49	30.0	8.3	28
ZZ46821		0.34	0.006	0.42	0.98	17.6	<0.2	<10	550	0.40	0.19	0.14	0.44	27.9	13.6	23
ZZ46822		0.29	0.004	0.41	0.80	7.2	<0.2	<10	640	0.31	0.11	0.22	0.59	16.75	6.3	18
ZZ46823		0.30	0.006	0.35	1.02	10.9	<0.2	<10	930	0.28	0.24	0.10	0.40	28.7	6.5	20
ZZ46824		0.34	0.002	0.06	0.62	4.8	<0.2	<10	60	0.06	0.18	0.03	0.04	23.7	1.1	8
ZZ46825		0.26	0.004	0.24	0.88	7.6	<0.2	<10	220	0.17	0.17	0.05	0.11	23.2	3.9	14
ZZ46826		0.25	0.010	0.21	1.35	21.4	<0.2	<10	380	0.44	0.25	0.09	0.25	34.9	16.6	30
ZZ46828		0.21	0.007	1.07	0.50	7.7	<0.2	<10	480	0.14	0.09	0.26	0.35	13.70	2.0	8
ZZ46829		0.38	0.017	0.60	0.43	20.4	<0.2	<10	570	0.12	0.16	0.13	0.29	26.5	3.1	11
ZZ46830		0.31	0.016	0.71	0.81	14.9	<0.2	<10	1090	0.29	0.22	0.37	0.68	40.6	8.0	28
ZZ46831		0.27	0.006	0.36	0.99	12.3	<0.2	<10	1020	0.32	0.20	0.24	0.27	39.7	9.1	39
ZZ46832		0.32	0.006	0.71	0.80	7.5	<0.2	<10	970	0.21	0.17	0.29	0.99	29.5	2.9	14
ZZ46833		0.27	0.005	1.57	0.92	11.0	<0.2	<10	710	0.25	0.26	0.91	0.28	24.7	6.9	19
ZZ46834		0.38	0.002	0.29	0.69	4.5	<0.2	<10	250	0.16	0.16	0.09	0.16	14.05	2.2	12
ZZ46835		0.25	0.007	0.47	1.31	10.2	<0.2	<10	910	0.41	0.22	0.20	0.65	24.9	8.4	28
ZZ46836		0.31	0.005	0.27	1.24	10.6	<0.2	<10	600	0.29	0.24	0.05	0.49	31.2	8.4	22
ZZ46837		0.24	0.003	0.27	0.75	9.9	<0.2	<10	230	0.15	0.14	0.05	0.22	16.75	3.4	14
ZZ46838		0.25	0.007	0.31	0.63	10.3	<0.2	<10	520	0.23	0.19	0.16	0.63	30.2	9.9	19
ZZ46839		0.30	0.003	0.28	0.38	4.8	<0.2	<10	90	0.07	0.12	0.02	0.07	29.3	2.2	6
ZZ46840		0.33	0.011	0.34	0.89	25.4	<0.2	<10	950	0.33	0.26	0.22	1.95	41.0	10.7	16
ZZ46841		0.27	0.004	0.05	0.62	3.7	<0.2	<10	90	0.07	0.18	0.02	0.03	30.8	1.5	9
ZZ46842		0.27	0.003	0.08	1.11	6.2	<0.2	<10	220	0.15	0.22	0.03	0.08	30.6	3.0	15
ZZ46843		0.24	0.001	0.13	0.57	4.5	<0.2	<10	110	0.08	0.15	0.03	0.05	14.70	2.0	9
ZZ46844		0.29	0.003	0.12	1.41	10.9	<0.2	<10	550	0.27	0.27	0.07	0.11	32.5	5.6	26
ZZ46845		0.28	0.003	0.33	0.69	3.5	<0.2	<10	310	0.18	0.12	0.08	0.12	21.9	2.0	10
ZZ46846		0.42	0.003	0.14	0.78	4.4	<0.2	<10	880	0.20	0.22	0.06	0.31	29.8	3.9	11
ZZ46847		0.21	0.003	0.10	1.26	8.0	<0.2	<10	220	0.28	0.19	0.11	0.10	20.7	5.5	23
ZZ46848		0.23	0.003	0.10	0.45	1.3	<0.2	<10	240	0.14	0.05	0.08	0.03	12.65	1.1	5
ZZ46849		0.27	0.003	0.09	1.60	10.9	<0.2	<10	480	0.54	0.24	0.03	0.12	34.9	10.3	32
ZZ46850		0.24	0.001	0.34	1.57	10.3	<0.2	<10	250	0.42	0.24	0.04	0.17	27.8	7.8	28
ZZ46851		0.23	0.010	0.14	1.12	10.5	<0.2	<10	460	0.19	0.26	0.14	0.15	24.6	4.6	24
ZZ46852		0.26	0.001	0.06	1.02	9.7	<0.2	<10	300	0.26	0.22	0.06	0.09	28.5	3.6	16
ZZ46853		0.29	0.006	0.12	0.98	6.3	<0.2	<10	450	0.29	0.22	0.08	0.17	42.3	11.9	14
ZZ46854		0.16	0.006	0.87	1.35	3.6	<0.2	<10	1380	0.55	0.20	0.09	0.40	78.3	9.7	24
ZZ46855		0.32	0.011	0.64	1.00	6.9	<0.2	<10	1180	0.34	0.19	0.31	0.33	41.5	8.5	20
ZZ46856		0.24	0.002	0.11	0.89	6.0	<0.2	<10	250	0.20	0.17	0.09	0.07	20.3	3.0	16
ZZ46857		0.29	0.006	0.06	1.48	10.6	<0.2	<10	350	0.41	0.22	0.09	0.16	34.0	8.6	31



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CERTIFICATE OF ANALYSIS WH12202867

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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ46817		0.78	32.8	1.75	4.28	<0.05	<0.02	0.08	0.016	0.06	10.6	6.5	0.23	562	1.94
ZZ46818		1.32	50.9	1.81	3.65	<0.05	0.03	0.24	0.020	0.07	10.2	9.6	0.30	300	2.23
ZZ46819		0.94	29.5	1.30	2.88	<0.05	0.04	0.09	0.014	0.05	8.9	7.2	0.22	191	1.18
ZZ46820		1.63	37.8	1.60	4.41	0.06	0.02	0.16	0.021	0.08	13.9	12.3	0.30	241	2.40
ZZ46821		1.58	49.0	2.76	3.92	<0.05	<0.02	0.04	0.025	0.06	13.0	8.7	0.28	1280	6.70
ZZ46822		1.28	35.0	1.80	3.16	<0.05	<0.02	0.08	0.017	0.05	8.2	5.3	0.19	491	2.86
ZZ46823		1.03	38.0	2.20	5.31	<0.05	<0.02	0.07	0.016	0.08	13.3	4.6	0.22	871	2.01
ZZ46824		0.83	7.5	0.80	5.83	<0.05	<0.02	0.01	0.007	0.03	11.3	1.4	0.06	76	1.00
ZZ46825		0.53	22.9	1.67	3.86	<0.05	<0.02	0.03	0.011	0.04	11.4	4.0	0.18	327	1.50
ZZ46826		1.15	42.0	3.09	4.45	0.05	0.05	0.05	0.027	0.07	15.3	12.0	0.43	1530	2.43
ZZ46828		0.56	23.4	0.76	2.36	<0.05	<0.02	0.11	0.008	0.05	7.4	1.6	0.05	124	1.69
ZZ46829		0.62	38.8	1.48	2.32	<0.05	<0.02	0.04	0.017	0.05	13.5	2.0	0.07	147	6.62
ZZ46830		0.75	60.3	2.47	2.87	0.06	0.03	0.12	0.026	0.07	23.6	7.4	0.39	502	3.95
ZZ46831		0.70	37.5	2.33	3.70	0.06	<0.02	0.06	0.019	0.06	19.9	9.6	0.53	583	3.15
ZZ46832		1.03	39.2	1.13	4.10	<0.05	<0.02	0.27	0.014	0.05	14.4	2.2	0.10	210	2.50
ZZ46833		0.79	35.8	2.18	5.68	<0.05	<0.02	0.11	0.017	0.06	11.9	5.3	0.13	567	2.88
ZZ46834		0.81	17.1	1.13	3.62	<0.05	<0.02	0.05	0.009	0.04	7.0	4.0	0.14	100	1.46
ZZ46835		1.50	44.3	2.32	4.92	<0.05	<0.02	0.08	0.022	0.08	12.0	10.4	0.34	654	5.28
ZZ46836		1.03	37.8	2.44	4.90	<0.05	<0.02	0.04	0.020	0.05	14.1	7.9	0.23	822	1.53
ZZ46837		0.76	21.7	1.58	3.61	<0.05	<0.02	0.03	0.018	0.04	8.1	3.5	0.12	213	1.47
ZZ46838		0.74	60.0	2.31	2.50	<0.05	0.02	0.03	0.019	0.07	13.4	5.8	0.29	831	3.36
ZZ46839		1.11	19.9	0.88	3.65	<0.05	<0.02	0.02	0.006	0.03	13.3	0.7	0.03	70	2.50
ZZ46840		1.18	62.1	2.18	3.46	0.08	0.02	0.07	0.024	0.07	19.4	7.7	0.35	1160	3.66
ZZ46841		0.81	9.8	0.68	6.70	<0.05	<0.02	0.01	0.006	0.03	14.4	1.2	0.05	57	0.98
ZZ46842		0.86	19.4	1.87	6.98	<0.05	<0.02	<0.01	0.011	0.04	14.2	3.1	0.13	233	1.62
ZZ46843		0.71	12.4	1.18	4.48	<0.05	<0.02	0.01	0.005	0.04	7.2	1.2	0.06	206	0.97
ZZ46844		1.09	27.1	2.87	5.96	<0.05	<0.02	0.01	0.015	0.07	18.0	8.1	0.31	427	2.30
ZZ46845		0.79	22.3	0.94	2.99	0.05	<0.02	0.04	0.010	0.04	14.3	4.2	0.11	122	0.56
ZZ46846		1.18	36.5	1.14	4.55	<0.05	<0.02	0.03	0.015	0.04	16.2	1.9	0.05	633	1.47
ZZ46847		1.24	33.6	2.07	5.13	<0.05	<0.02	0.05	0.021	0.05	12.2	10.9	0.34	295	1.12
ZZ46848		0.55	19.3	0.41	1.71	<0.05	<0.02	0.04	0.005	0.03	7.4	1.6	0.05	120	0.43
ZZ46849		1.45	43.8	2.70	4.90	0.05	0.03	0.03	0.026	0.06	16.3	18.8	0.48	521	2.04
ZZ46850		1.06	27.7	2.92	5.07	<0.05	0.04	0.03	0.025	0.06	13.5	16.0	0.28	378	1.95
ZZ46851		1.30	14.5	2.40	6.02	<0.05	<0.02	0.03	0.019	0.06	12.7	8.5	0.27	276	1.96
ZZ46852		0.84	19.7	2.04	5.47	<0.05	<0.02	0.04	0.016	0.04	17.5	5.6	0.17	263	1.29
ZZ46853		0.99	57.6	1.66	3.35	0.05	<0.02	0.10	0.016	0.06	13.9	7.0	0.27	2000	0.97
ZZ46854		2.40	392	1.53	4.08	0.17	0.02	0.10	0.017	0.07	77.5	5.8	0.13	706	1.11
ZZ46855		2.03	74.6	1.67	3.76	0.08	<0.02	0.13	0.017	0.07	25.4	5.9	0.20	1870	1.89
ZZ46856		0.78	17.3	1.46	4.61	<0.05	<0.02	0.05	0.014	0.04	10.2	5.6	0.17	189	0.93
ZZ46857		1.42	46.0	2.19	5.22	0.05	<0.02	0.04	0.023	0.05	16.4	10.5	0.36	597	1.33



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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	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	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
ZZ46817		0.43	19.1	440	12.0	7.3	<0.001	0.03	0.75	1.0	0.9	0.4	36.9	<0.01	0.03
ZZ46818		0.43	24.9	1080	47.1	9.6	0.001	0.05	0.99	1.9	1.8	0.3	42.0	<0.01	0.09
ZZ46819		0.40	17.5	820	9.4	7.0	<0.001	0.05	0.52	1.8	1.7	0.2	26.4	<0.01	0.03
ZZ46820		0.48	31.5	890	20.1	12.9	0.002	0.05	1.28	2.3	4.2	0.4	38.9	<0.01	0.07
ZZ46821		0.28	32.2	970	13.1	8.0	0.001	0.04	2.34	1.8	1.9	0.3	39.1	<0.01	0.08
ZZ46822		0.15	20.7	940	7.8	6.6	<0.001	0.04	1.01	0.7	1.0	0.3	31.9	<0.01	0.04
ZZ46823		0.39	15.4	640	17.3	8.0	<0.001	0.05	0.89	1.0	1.3	0.5	19.5	<0.01	0.05
ZZ46824		0.46	3.5	220	6.0	5.7	<0.001	0.01	0.29	0.5	0.5	0.7	5.2	<0.01	0.03
ZZ46825		0.55	12.7	520	9.9	5.9	0.001	0.02	0.62	1.0	0.8	0.4	10.1	<0.01	0.03
ZZ46826		0.66	30.5	950	20.2	9.4	<0.001	0.03	1.32	2.4	1.4	0.4	18.5	<0.01	0.08
ZZ46828		0.17	11.4	630	6.0	5.8	<0.001	0.03	1.38	0.6	1.0	0.3	25.8	<0.01	0.05
ZZ46829		0.11	20.5	520	11.1	6.5	<0.001	0.04	3.91	0.7	1.5	0.2	42.0	<0.01	0.07
ZZ46830		0.32	50.9	1200	17.0	5.6	0.001	0.05	2.79	3.2	2.3	0.4	46.9	<0.01	0.07
ZZ46831		0.45	40.6	890	15.1	6.0	<0.001	0.04	1.75	2.3	2.2	0.4	34.7	<0.01	0.06
ZZ46832		0.13	17.1	660	12.1	5.8	0.001	0.03	1.90	0.4	2.1	0.5	36.5	<0.01	0.06
ZZ46833		0.75	15.1	570	19.4	9.6	<0.001	0.04	1.32	1.4	1.0	0.6	53.5	<0.01	0.08
ZZ46834		0.27	7.6	510	8.2	6.0	0.001	0.03	0.36	0.5	0.7	0.3	13.9	<0.01	<0.01
ZZ46835		0.29	28.5	1050	18.9	12.5	<0.001	0.05	1.74	1.2	1.4	0.5	34.1	<0.01	0.07
ZZ46836		0.42	17.7	710	15.4	10.5	0.001	0.03	0.76	0.9	1.0	0.4	11.2	<0.01	0.05
ZZ46837		0.39	11.5	620	10.4	7.0	<0.001	0.02	0.60	0.5	1.1	0.4	9.3	<0.01	0.02
ZZ46838		0.21	33.6	1180	14.7	3.8	<0.001	0.04	1.57	1.9	1.8	0.2	40.9	<0.01	0.06
ZZ46839		0.11	10.3	320	8.1	5.6	<0.001	0.02	0.76	0.3	0.5	0.4	13.4	<0.01	0.04
ZZ46840		0.20	36.5	730	31.3	5.6	<0.001	0.04	1.31	2.0	0.9	0.2	41.3	<0.01	0.08
ZZ46841		0.38	4.4	170	5.2	4.7	<0.001	0.01	0.36	0.6	<0.2	0.8	5.1	<0.01	0.01
ZZ46842		0.68	9.8	230	9.2	8.7	<0.001	0.01	0.64	1.8	0.5	0.6	7.2	<0.01	0.07
ZZ46843		0.21	5.2	410	5.8	5.8	<0.001	0.02	0.35	0.3	0.4	0.4	6.7	<0.01	0.03
ZZ46844		0.93	16.0	500	19.5	9.0	<0.001	0.02	1.01	1.8	0.5	0.6	17.8	<0.01	0.06
ZZ46845		0.38	5.3	450	8.9	5.7	<0.001	0.02	0.18	1.1	<0.2	0.4	8.9	<0.01	0.01
ZZ46846		0.27	9.7	400	8.2	6.2	<0.001	0.02	0.49	0.5	0.2	0.7	13.3	<0.01	0.02
ZZ46847		0.78	13.1	530	12.4	8.1	<0.001	0.02	0.43	1.6	0.4	0.5	10.1	<0.01	0.02
ZZ46848		0.14	3.0	550	4.8	3.7	<0.001	0.03	0.10	0.2	0.2	0.2	10.3	<0.01	<0.01
ZZ46849		0.56	30.3	200	18.0	11.2	<0.001	0.02	0.95	3.4	0.2	0.5	10.0	<0.01	0.06
ZZ46850		0.89	20.0	330	18.5	11.8	<0.001	0.03	1.00	2.7	0.5	0.5	7.7	<0.01	0.03
ZZ46851		1.21	11.9	400	11.5	10.0	<0.001	0.02	0.70	1.9	0.3	0.7	17.6	<0.01	0.02
ZZ46852		0.66	7.7	420	13.8	6.4	<0.001	0.02	0.54	1.1	0.3	0.6	8.8	<0.01	0.03
ZZ46853		0.23	15.9	660	23.8	5.8	<0.001	0.03	0.38	0.8	0.5	0.4	13.3	<0.01	0.05
ZZ46854		0.27	22.1	1530	14.9	17.6	0.001	0.07	0.41	1.3	2.1	0.5	18.1	<0.01	0.03
ZZ46855		0.16	19.3	970	15.9	10.4	<0.001	0.05	0.51	0.9	1.9	0.4	41.1	<0.01	0.05
ZZ46856		0.51	7.2	400	8.6	6.1	<0.001	0.02	0.34	1.0	0.5	0.6	9.4	<0.01	0.02
ZZ46857		0.76	23.4	490	13.1	8.6	<0.001	0.01	0.67	2.6	0.8	0.6	10.8	<0.01	0.07



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ46817		0.025	0.11	0.55	41	0.19	4.51	56	<0.5
ZZ46818		0.017	0.25	1.37	37	0.11	7.06	97	0.7
ZZ46819		0.020	0.10	1.96	26	0.12	6.63	64	0.6
ZZ46820		0.017	0.30	1.11	37	0.12	7.43	90	<0.5
ZZ46821		0.017	0.15	0.97	50	0.21	5.78	117	<0.5
ZZ46822		0.014	0.11	0.73	35	0.08	5.53	66	<0.5
ZZ46823		0.033	0.16	1.01	51	0.37	4.49	61	<0.5
ZZ46824		0.033	0.08	0.28	42	0.18	1.25	18	<0.5
ZZ46825		0.023	0.07	0.40	33	0.15	2.56	44	<0.5
ZZ46826		0.018	0.13	0.72	38	0.16	4.59	93	1.2
ZZ46828		0.012	0.14	0.68	14	0.05	3.88	40	<0.5
ZZ46829		0.008	0.17	0.62	21	<0.05	3.79	83	<0.5
ZZ46830		0.016	0.17	1.46	29	0.29	11.80	131	1.3
ZZ46831		0.022	0.20	0.89	39	0.18	6.06	88	<0.5
ZZ46832		0.015	0.24	1.18	38	0.14	6.54	57	<0.5
ZZ46833		0.030	0.14	0.75	50	0.25	3.91	68	<0.5
ZZ46834		0.021	0.09	0.49	29	0.16	2.32	29	<0.5
ZZ46835		0.017	0.18	0.96	49	0.17	6.11	119	<0.5
ZZ46836		0.017	0.12	0.66	38	0.16	5.95	66	<0.5
ZZ46837		0.020	0.08	0.43	32	0.17	1.78	56	<0.5
ZZ46838		0.011	0.17	1.01	33	0.09	5.90	115	<0.5
ZZ46839		0.011	0.13	0.28	35	0.10	1.37	47	<0.5
ZZ46840		0.008	0.17	0.90	26	0.05	6.17	310	<0.5
ZZ46841		0.025	0.10	0.28	38	0.17	1.43	19	<0.5
ZZ46842		0.022	0.14	0.32	54	0.18	1.93	39	<0.5
ZZ46843		0.023	0.08	0.24	35	0.13	1.14	23	<0.5
ZZ46844		0.027	0.20	0.57	58	0.23	3.76	57	<0.5
ZZ46845		0.022	0.06	0.63	24	0.13	6.69	19	<0.5
ZZ46846		0.022	0.09	0.67	30	0.18	4.72	45	<0.5
ZZ46847		0.038	0.09	0.57	41	0.24	3.56	46	<0.5
ZZ46848		0.010	0.04	0.34	8	0.06	5.03	8	<0.5
ZZ46849		0.016	0.13	0.47	40	0.20	3.42	61	1.4
ZZ46850		0.023	0.12	0.45	48	0.25	2.61	58	1.5
ZZ46851		0.048	0.10	0.47	57	0.38	2.41	47	<0.5
ZZ46852		0.035	0.08	0.48	48	0.32	4.24	28	<0.5
ZZ46853		0.013	0.07	0.56	22	0.15	4.75	48	<0.5
ZZ46854		0.007	0.13	2.28	27	0.10	34.9	42	<0.5
ZZ46855		0.012	0.13	1.33	24	0.11	14.65	57	<0.5
ZZ46856		0.028	0.08	0.43	34	0.32	2.82	27	<0.5
ZZ46857		0.031	0.12	1.08	43	0.29	4.93	53	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
ZZ46858		0.19	0.002	0.37	0.63	3.2	<0.2	<10	230	0.11	0.13	0.06	0.06	17.50	1.9	10
ZZ46859		0.25	0.002	0.22	0.58	2.5	<0.2	<10	200	0.14	0.09	0.03	0.10	19.15	2.1	9
ZZ46860		0.25	0.001	0.13	0.86	5.6	<0.2	<10	390	0.24	0.16	0.05	0.17	24.3	6.9	14



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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	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ46858		1.09	20.4	1.02	2.81	<0.05	<0.02	0.04	0.010	0.04	7.9	2.8	0.11	134	0.77	0.01
ZZ46859		0.89	17.6	0.82	2.90	<0.05	<0.02	0.04	0.009	0.04	10.1	2.7	0.08	159	0.63	0.01
ZZ46860		0.76	25.3	1.57	3.79	<0.05	<0.02	0.03	0.014	0.05	11.1	5.7	0.17	848	1.49	0.01



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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	ME- MS41
		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
		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
ZZ46858		0.25	6.4	460	12.6	6.3	<0.001	0.03	0.27	0.3	<0.2	0.3	12.4	<0.01	0.02	<0.2
ZZ46859		0.24	5.0	400	6.5	6.1	<0.001	0.03	0.20	0.4	<0.2	0.3	6.1	<0.01	0.01	<0.2
ZZ46860		0.34	10.9	380	10.1	8.0	<0.001	0.02	0.45	1.0	<0.2	0.4	10.4	<0.01	0.02	0.3



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ46858		0.014	0.06	0.46	20	0.11	1.62	25	<0.5
ZZ46859		0.018	0.07	0.45	20	0.11	2.32	18	<0.5
ZZ46860		0.021	0.08	0.47	29	0.16	2.92	41	<0.5



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Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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This report is for 7 Slt samples submitted to our lab in Whitehorse, YT, Canada on 2- SEP- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

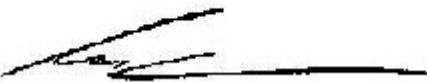
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 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
ZZ46861		0.21	0.017	1.06	2.93	19.2	<0.2	<10	1320	2.30	0.26	0.53	20.1	49.7	52.9	20
ZZ46862		0.22	0.015	0.17	1.19	10.6	<0.2	<10	1590	0.60	0.42	0.18	0.27	64.1	14.2	22
ZZ46863		0.38	0.011	0.50	1.36	12.7	<0.2	<10	1360	0.87	0.25	0.35	6.06	40.3	24.8	22
ZZ46864		0.33	0.014	0.64	1.80	14.3	<0.2	<10	1470	1.31	0.24	0.44	9.76	43.3	32.9	22
ZZ46865		0.31	0.014	0.69	1.90	14.7	<0.2	<10	1460	1.43	0.24	0.42	10.95	42.5	35.3	22
ZZ46866		0.36	0.016	0.54	1.21	10.5	<0.2	<10	1400	0.75	0.23	0.42	6.04	40.1	21.6	23
ZZ46867		0.28	0.011	0.54	1.40	13.1	<0.2	<10	1370	0.95	0.29	0.41	7.54	41.1	25.7	23



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CERTIFICATE OF ANALYSIS WH12206330

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	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ46861		2.49	807	4.37	3.06	0.19	0.14	0.23	0.073	0.09	24.8	14.8	0.28	2660	5.64
ZZ46862		1.34	92.5	2.51	4.07	0.13	0.04	0.05	0.020	0.13	31.6	13.4	0.40	2320	2.46
ZZ46863		1.53	276	2.87	2.80	0.12	0.06	0.12	0.033	0.08	19.5	11.1	0.38	1400	3.78
ZZ46864		1.81	409	3.35	2.94	0.15	0.07	0.14	0.044	0.08	21.3	13.0	0.37	1840	4.13
ZZ46865		1.85	450	3.40	2.92	0.16	0.09	0.14	0.048	0.08	21.2	12.7	0.35	2000	4.12
ZZ46866		1.56	186.5	2.59	2.87	0.12	0.06	0.16	0.028	0.08	19.9	12.1	0.40	870	2.86
ZZ46867		1.61	283	2.93	2.78	0.14	0.08	0.16	0.040	0.08	20.3	12.1	0.36	1480	3.39



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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	ME- MS41
		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
		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
ZZ46861		0.30	213	1240	29.9	7.7	0.001	0.10	2.57	11.9	4.1	0.3	122.0	0.02	0.11	4.3
ZZ46862		0.31	34.9	560	38.1	8.4	<0.001	0.03	0.99	2.5	0.9	0.3	32.0	<0.01	0.10	2.8
ZZ46863		0.27	103.0	960	21.7	5.8	0.001	0.07	1.78	5.2	2.1	0.2	63.1	0.01	0.09	3.2
ZZ46864		0.27	136.5	1030	23.3	6.5	0.001	0.08	1.95	7.3	2.7	0.2	88.3	0.01	0.09	3.8
ZZ46865		0.27	142.5	1050	24.2	6.4	0.001	0.08	1.94	8.0	2.8	0.2	83.6	0.01	0.10	3.7
ZZ46866		0.32	113.0	1000	21.3	6.8	0.001	0.06	1.54	4.6	2.0	0.2	67.7	0.01	0.08	3.2
ZZ46867		0.30	120.5	1040	20.8	6.5	0.001	0.06	1.65	5.9	2.5	0.2	67.8	0.01	0.09	3.3



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CERTIFICATE OF ANALYSIS WH12206330

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ46861		0.009	0.53	8.32	38	0.12	53.3	2440	2.3
ZZ46862		0.011	0.12	1.11	26	0.12	10.85	96	0.7
ZZ46863		0.011	0.26	3.21	31	0.10	21.3	851	1.0
ZZ46864		0.011	0.33	3.95	34	0.14	29.5	1320	1.2
ZZ46865		0.010	0.33	4.65	33	0.10	32.3	1450	1.5
ZZ46866		0.013	0.25	1.88	30	0.10	18.75	915	1.1
ZZ46867		0.012	0.28	2.38	31	0.11	24.0	1100	1.4



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Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

APPENDIX IV
STATEMENT OF EXPENDITURES

Total	<u>\$25,451.84</u>
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