



Ministry of Energy & Mines
 Energy & Minerals Division
 Geological Survey Branch

ASSESSMENT REPORT
 TITLE PAGE AND SUMMARY

317,321⁴⁰

TITLE OF REPORT [type of survey(s)] TOTAL COST
 2014 ASSESSMENT REPORT ON THE 2013 DIAMOND DRILLING PROGRAM

AUTHOR(S) J. W. MURTON P. ENG. SIGNATURE(S)

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) MX-4-462 YEAR OF WORK 2013

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) _____

PROPERTY NAME MAN PRIME

CLAIM NAME(S) (on which work was done) 512854

COMMODITIES SOUGHT COPPER/GOLD

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 92HNE043, 92HNE056

MINING DIVISION SIMILKAMEEN NTS 92H09N, 15E, 16W

LATITUDE 49° 44' " LONGITUDE 120° 29' " (at centre

of work)

OWNER(S)

1) SUNRISE RESOURCES LTD. 2) _____

MAILING ADDRESS

650 ST ANNES ROAD
ARMSTRONG B.C. V0E 1B5

OPERATOR(S) [who paid for the work]

1) AS ABOVE 2) _____

MAILING ADDRESS

AS ABOVE

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

UPPER TRIASSIC NICOLA GROUP VOLCANICS & INTRUSIVES.
ANDESITE PORPHYRY, DIORITE TO MONZONITE. CHALCOPYRITE,
PYRITE, BORNITE

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 30033, 29381, 25189, 22611

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne			
GEOCHEMICAL			
(number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock _____			
Other _____			
DRILLING			
(total metres; number of holes, size)			
Core <u>1289.9 m, 2 HOLES, NQ</u>		512854	\$ 300,632 ⁴⁰
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying <u>699 SPLIT CORE SAMPLES</u>		512854	\$ 16,689 ⁴⁰
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) _____			
PREPARATORY/PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
TOTAL COST			\$ <u>317,321.40</u>



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: SUNRISE RESOURCES LTD. (133509)

Submitter: SUNRISE RESOURCES LTD. (133509)

Recorded: 2014/MAY/28

Effective: 2014/MAY/28

D/E Date: 2014/MAY/28

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: 5506142

Work Type: Technical Work
Technical Items: Drilling

Work Start Date: 2013/JUN/01
Work Stop Date: 2013/JUL/30
Total Value of Work: \$ 317321.40
Mine Permit No: MX-4-462

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
512854		2005/may/17	2020/jul/24	2024/JUL/24	1461	1022.76	\$ 30682.68	\$ 0.00
552632	PRIME COPPER	2007/feb/24	2020/feb/24	2024/JUL/24	1612	521.56	\$ 18874.37	\$ 0.00
612403	MAN 2	2009/jul/27	2014/jul/27	2024/JUL/24	3650	522.04	\$ 72999.45	\$ 0.00
612404	MAN 3	2009/jul/27	2014/jul/27	2024/JUL/24	3650	522.09	\$ 73007.36	\$ 0.00

Financial Summary:

Total applied work value: \$ 195563.86

PAC name: Sunrise Resources Ltd.
Debited PAC amount: \$ 0.0
Credited PAC amount: \$ 121757.54

Total Submission Fees: \$ 0.0

Total Paid: \$ 0.0

Please print this page for your records.

The event was successfully saved.

2014 ASSESSMENT REPORT

on the

2013 DIAMOND DRILLING PROGRAM

on the

MAN PRIME PROPERTY

Similkameen Mining Division

BCGS 92H.078

NTS 92H/09W,15E, 16W

Lat. 49°44'N, Long. 120°29'W

Work completed on Tenure # 512854

for

SUNRISE RESOURCES LTD.

650 St Annes Road

Armstrong, B.C., V0E1B5

by

J.W.Murton & Associates

1567 McNaughton Road

West Kelowna, B.C. V1Z2S2

J.W. Murton P. Eng.

Aug. 25, 2014

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1.0 INTRODUCTION

This assessment report has been prepared at the request of Mr Irvin Eisler, President of Sunrise Resources Ltd. It describes the two diamond drill holes completed on the Man Prime property (north of Princeton, B.C.) during the period June 1- July 16, 2013. A total of 1289.9 metres of drilling were completed under the direct supervision of J.W. Murton P. Eng. of J.W. Murton & Associates.

2.0 LOCATION, ACCESS & PHYSIOGRAPHY

The Man Prime property is located in southern B.C. approximately 30 km south of Merritt, B.C. and approximately 50 m north from Princeton B.C. It lies southeast from Missezula Lake at coordinates 49°44' to 49° 46' north and 120° 27' to 120° 31' west. Geographic coordinates for the location of the drilling are 5515885N, 681947E on NAD 83, Zone 10.

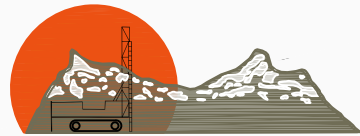
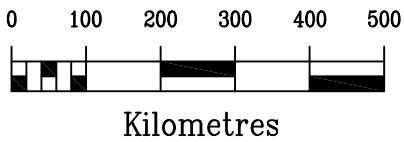
The property may be best accessed via the Princeton – Summerland road northeast from Princeton, then north on the Jura forest service road (FSR), west on the East Ketchan FSR to the north portion of the property where the drilling took place. Additional good access is from Hwy 97C (the Connector), south at the Loon Lake turnoff and then west on the Dillard Creek FSR.

The region is characterized by well forested rolling hills of the Thompson plateau. Elevations range from 970 m – 1600 m. The property is drained to the west by Dillard and Galois Creeks which drain into Summers Creek at the south end of Missezula Lake.

The property has been partially clear cut logged with scattered remaining stands of lodge pole pine and fir. Rock outcrop is scarce comprising <5% of the property.

3.0 CLAIMS / TENURES

The property comprises 4 contiguous tenures totalling 2,588.45 hct. All tenures are owned 100% by Sunrise Resources Ltd. subject to a 1.25% NSR to Bearclaw Capital Corp.



Sunrise Resources Ltd. SHI-V

Man - Prime Property

Property Location

To accompany a report by : JW.Murton, PEng.

Base map after : BC-1:2,000,000

Dwg. by	RM	Scale	1:10,000,000
Date	Aug.25, 2014	Figure:	1

TABLE 1 : TENURE DESCRIPTION

Tenure #	Claim Name	Owner	Map Sheet	Issue Date	Good to Date	Filing Date	Event	Area
512854		133509	092H078	2005.05.17	2024.07.24	2014.05.28	5506142	1022.76
552632	PRIME COPPER	133509	092H078	2007.02.24	2024.07.24	2014.05.28	5506142	521.56
612403	MAN 2	133509	092H078	2009.07.27	2024.07.24	2014.05.28	5506142	522.04
612404	MAN 3	133509	092H078	2009.07.27	2024.07.24	2014.05.28	5506142	522.09
TOTAL								2588.44

*Tenure in red is where work was completed.

4.0 HISTORY

The exploration history of the property has involved many companies over a number of years beginning in the early 1930's when the first recorded exploration occurred on what was then known as the King George claims and showing. A brief summary follows:

Primer Group Minerals Ltd. acquired the Primer Group claims in 1961 and optioned the property to McIntyre Porcupine Minerals Ltd in 1962. McIntyre conducted various geological, soil geochemical and geophysical surveys and then returned the claims to Primer.

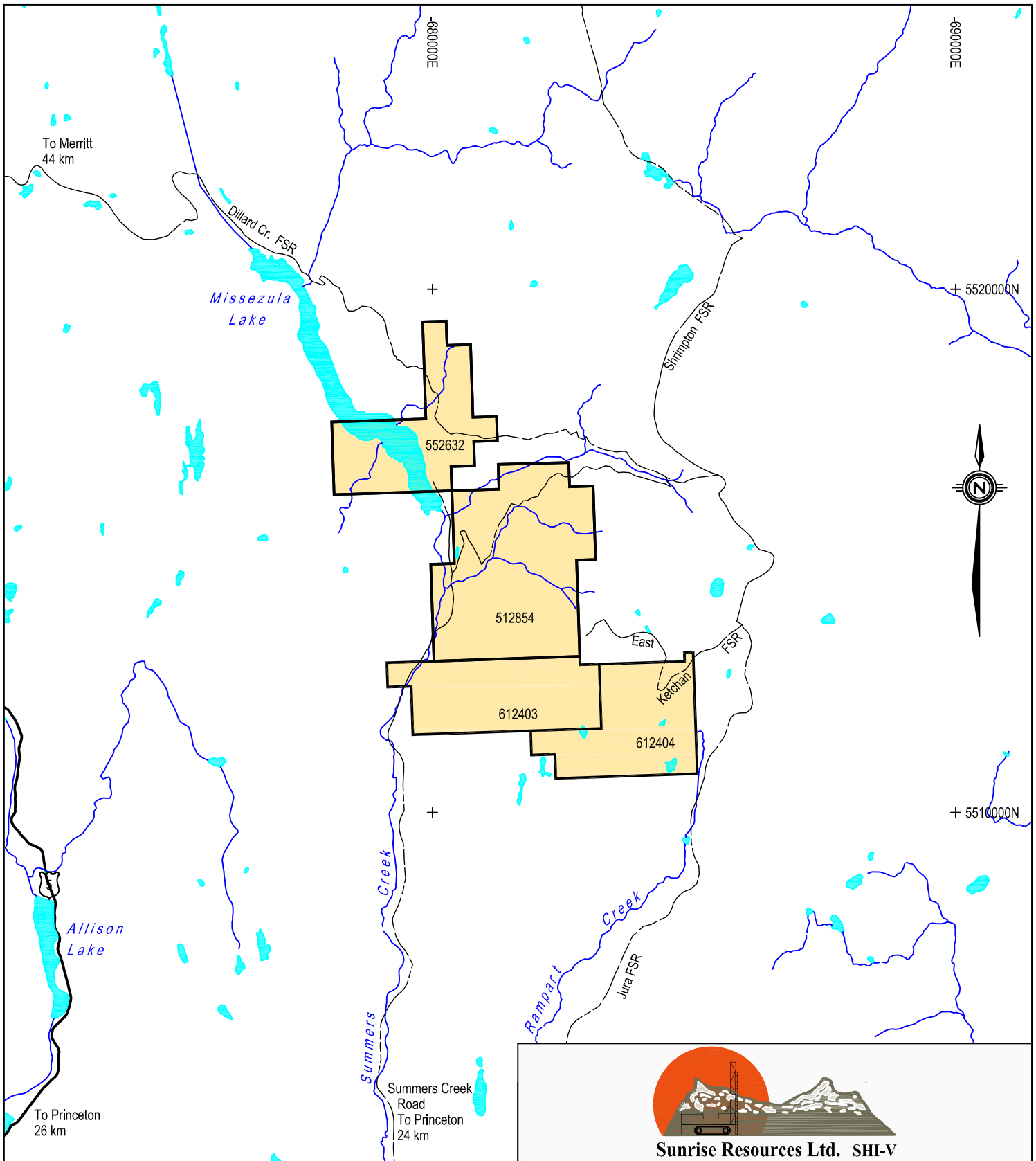
Primer Group and Pageant Mines Ltd continued to explore the Prime North zone (now called the Prime zone) as well as the Prime South zone (now called the Dill showing), some 1.5 km the south east. Between 1965 and 1968 the Primer Group drilled 15 ddh's totalling 1,402 m and 7 percussion holes (pdh's) totalling 390 m. In 1969 additional geological, soil geochemical and magnetometer surveys were completed.

Rio Tinto Canadian Exploration Ltd optioned the property from 1972 – 1973 and conducted geophysical surveys and completed 5 ddh's totalling 641 m.

The Prime 1 claim and the Prime claim were staked in 1976 and 1979 for Piper Petroleum Ltd. to cover the Prime North and Dill zones. From 1978 – 1980 the company performed magnetometer and EM surveys plus geological mapping and trenching.

In 1979 Newmont Exploration of Canada Ltd. optioned the Prime property along with the adjoining HG and MS claims located at the southern boundary of the Prime property. Newmont explored the property from 1979 – 1981 focussing their work on a copper / gold occurrence located on the Prime – HG claim boundary now known as the Man zone. A major exploration program consisting of geological, geophysical and geochemical surveys was completed plus a 12 hole dd program totalling 2,550 m. Newmont then dropped the option.

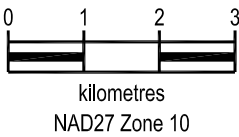
P. Christopher optioned the property in 1984 – 1985 from Giant Piper Exploration (formerly Piper Petroleum Ltd.) and performed magnetic, EM, geological and soil geochemical surveys.



Man-Prime Property

Claim Locations

Dwg. by: RM	Scale: 1:100,000
Date: Aug.25, 2014	Figure: 2



To accompany a report by : JW. Murton, PEng
 Base map after : NM10_BCGS - 1:250,000

In 1987, Giant Piper Exploration optioned the Prime property to Consolidated Silver Butte Moines Ltd. who conducted a soil sampling program covering the historic Prime showing.

In 1987 the Man claim was staked on the south boundary of the Prime claim block by D. Mehner and subsequently optioned to Brican Resources Ltd. An IP survey was completed on the property the following year along with an 8 hole dd program totalling 1,508 m. Drilling was focussed over the area of the old Newmont ddh's.

Austar Resources in 1991 consolidated the Prime and Man claim blocks and then optioned the property to Noranda Exploration Company Ltd. Geological and soil geochemical surveys were completed in 1992.

The area previously covered by the Prime claims was acquired in 1996 by staking the Prime 1 – 11 claims for the Phoenix Syndicate of Vernon B.C.

In 1997, Discovery Consultants carried out a small soil sampling program on behalf of the Phoenix Syndicate.

In 2004, Bearclaw Capital Corp. acquired the Prime 1-11 claims which host the Prime zone from Phoenix and later that year acquired the Man claim hosting the Man zone. Through further staking, consolidation and conversion to MTO cell claims, Bearclaw achieved the current land position know as tenure 512584.

Candorado (now Sunrise Resources Ltd.) optioned tenure 512584 from Bearclaw in 2007. Magnetometer and IP surveys were conducted over 56.1 line kms by Peter Walcott and Assoc. in 2007. Geochemical surveys were conducted on the northern portion of the IP grid on the Prime zone which hosted an IP chargeability anomaly. In 2007 Candorado also conducted a 19 hole dd program totalling 4,042 m. 15 holes were drilled on the Man zone with 8 holes encountering copper gold mineralization while of the 4 holes drilled on the Prime zone, 2 encountered copper mineralization.

In 2008 Candorado purchased tenure 512854 from Bearclaw giving it 100% ownership subject to a 1.25% NSR.

GWR Resources Inc. optioned tenure 512854 in 2008 and conducted an 11 hole dd program totalling 1,870 m plus surface rock sampling. GWR allowed the option to lapse in 2009.

In 2010, Candorado completed a 5 hole dd program totalling 849 m on the Prime zone area.

5.0 GEOLOGY

Detailed regional mapping at a scale of 1:50,000, was carried out by the British Columbia Geological Survey ("BCGS") to the east as far as 120° 30' 00" W, located just east of the north-south trending Summers Creek Fault (Preto, 1979). Only limited regional mapping by government geologists has occurred east of this area, including the area underlying the Property. A 1:250,000 geological compilation map by Monger (1989) includes the area east of the fault. A compilation of the regional geology of the area is shown on Figure 3.

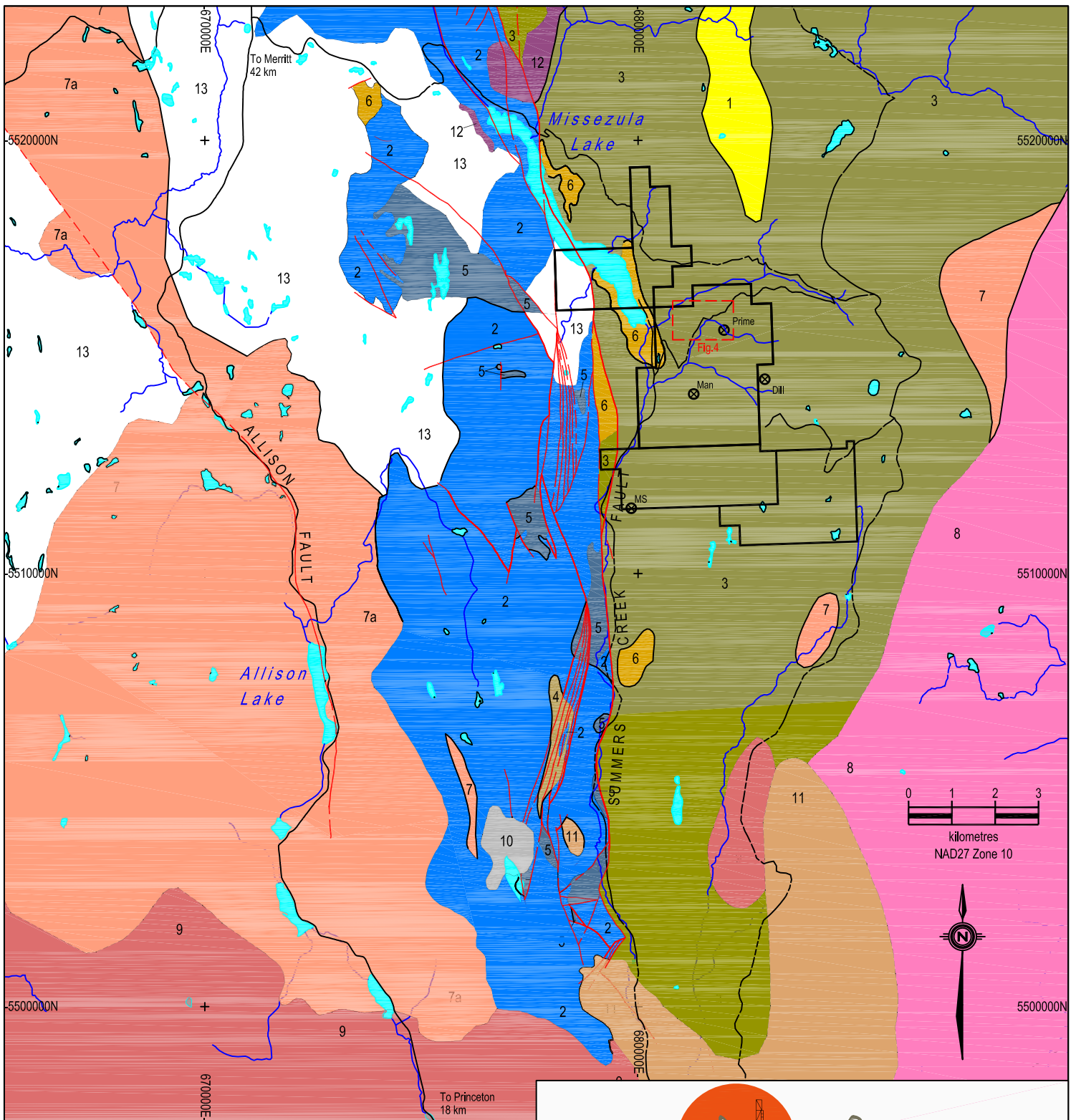
The regional geology and Property scale geology has been described by V. Preto in an internal report on the property (Preto and Koffyberg, 2009).

5.1 Regional Geology

The Property is located within the southern portion of the Quesnel Terrane, or Quesnellia, of the Intermontane Tectonic Belt of British Columbia. Quesnellia is a northwesterly trending belt of Upper Triassic to Lower Jurassic submarine and subaerial alkalic and calc-alkalic volcanic rocks, related sedimentary rocks, and comagmatic intrusive rocks some 40 to 50 kilometres wide and traceable from the 49° parallel along the full length of the Intermontane Belt into northern British Columbia.

In the southern part of the Province this assemblage of volcano-plutonic arc rocks is known as the Nicola Group. The central part of the Nicola Group between Merritt and Princeton has been subdivided into three sub-parallel structural belts, referred to as the Western, Central, and Eastern Belt, on the basis of physical and chemical differences of the rock assemblages (Figure 3). The three belts are separated by two northerly trending high-angle fault systems (Preto, 1979).

The Summers Creek Fault, less than one kilometre west of the Property, separates rocks of the Central Belt from those of the Eastern Belt which underlie the Property. Farther west, the Allison Fault system separates Central Belt from Western Belt rocks (Preto, 1979).

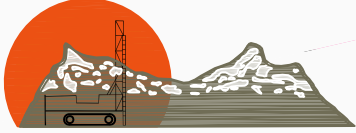


LEGEND

- - - Fault	○ Prime	— Geological boundary
□ 13 Quaternary cover	○ Mineral occurrence	
■ 12 Pleistocene Valley basalt		
■ 11 Cretaceous Summers Creek stock	■ 7a Triassic - Jurassic Allison Lake Pluton, 7b-stock	
■ 10 Kingsvale volcanic sediments	■ 6 Monzonite±porphyritic dacite	
■ 9 Kingsvale volcanic flows/tuff	■ 5 Diorite, quartz diorite	
■ 8 Middle Jurassic Osprey Lake Batholith	■ 4 Leucocratic quartz porphyry	
	■ 3 Upper Triassic (Nicola Group) Eastern Belt	
	■ 2 Central Belt	
	■ 1 Sedimentary facies	

To accompany a report by : JW Murton, PEng.

Base map after : Bulletin 69 (1979), Monger (1989)

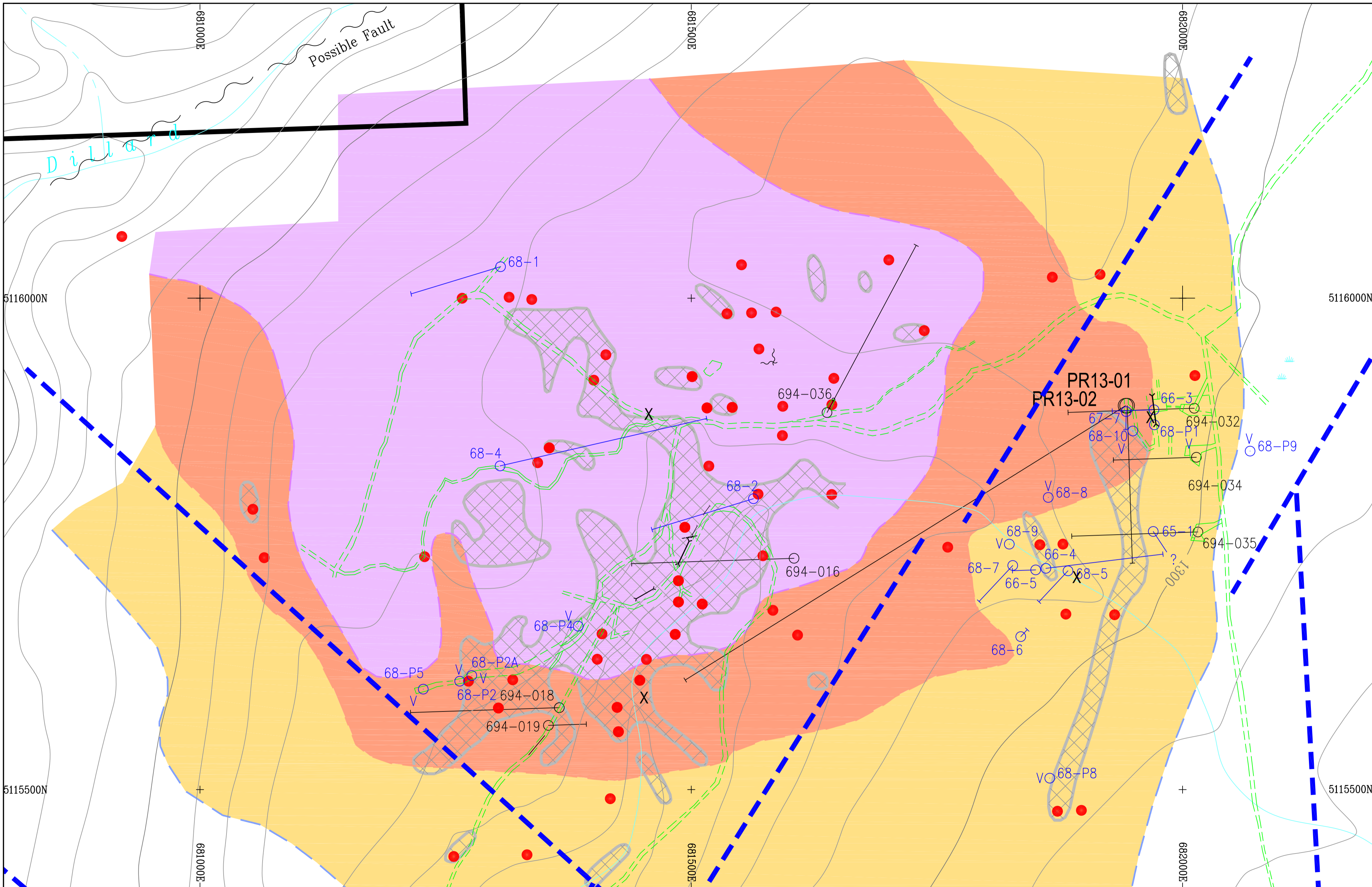


Sunrise Resources Ltd. SHI-V

Man-Prime Property

Regional/Property Geology

Dwg. by:	RM	Scale: 1:125,000
Date:	Aug.25, 2014	Figure: 3

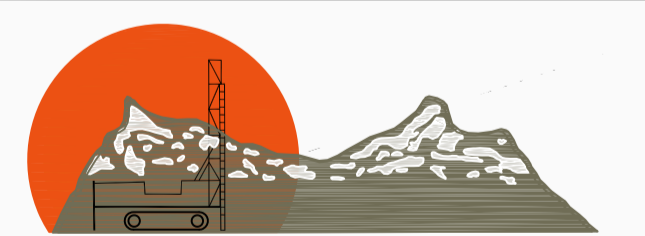


LEGEND

- IP Chargeability >5 ms
- IP Chargeability >9 ms
- IP Chargeability >14 ms
- Structure from Resistivity interp.
- Copper in soils >131 ppm
- Gold in soils >35 ppb
- PR13-01 Sunrise drill hole location
- 694-016 Candorado drill hole location
- 68-7 Drill hole location, pre-2007
- Area of anomalous trench or road cut channel sampling
- Anomalous rock grab or float
- Access roads



topographic contour interval = 20m



Sunrise Resources Ltd. SHI-V

**Man-Prime Property
Compilation Map - Prime Area
Plan - Drill Hole Locations**

Location: Dillard Cr.		Mining Jurisdiction: Similkameen	
Datum: NAD83	Map Ref.: 092H.078	Scale: 1:2500	UTM: 10
Project: ManPrime	Date: Oct.1, 2013	Drawn By: RM	Figure: 4

Eastern Belt rocks consist of an assemblage of westerly-facing volcanic siltstone, sandstone, conglomerate, tuff, laharic deposits, and distinctly alkaline trachybasalt flows which are intruded by numerous stocks of micromonzonite porphyry which may have associated copper-gold porphyry style mineralization such as at the Property.

Central Belt rocks are dominated by massive pyroxene and plagioclase-rich andesitic and basaltic flows of alkalic and calc-alkalic composition, breccia and lahar deposits and subordinate amounts of conglomerate and finer grained pyroclastic and sedimentary rocks. Comagmatic intrusive rocks are mostly diorite with subordinate syenite and occur mostly along major faults in the eastern half of the Belt.

Western Belt rocks include andesite to rhyolite flows of distinctly calc-alkalic composition and tuff, which are interbedded with limestone of Lower to Middle Norian age, volcanic conglomerate and sandstone.

The large northerly-trending fault systems such as Allison and Summers Creek Faults, are believed (Preto, 1979) to represent deep-seated crustal fractures which dominated the geology direction, thus producing a central zone of dominantly volcanic and intrusive rocks [Central Belt and part of the Eastern Belt], flanked to the west and east by sedimentary basins. Some of these eruptive centres can be identified with stocks or clusters of stocks of micromonzonite or microdiorite.

5.2 Property Geology

The Property is extensively covered by glacial and fluvio-glacial deposits. It is underlain by massive and brecciated pyroxene and feldspar phyric basalt and basaltic andesite flows, lahar deposits of similar composition and locally fine-grained volcanic siltstone, sandstone or tuff. These rocks are part of the Eastern Belt assemblage (Preto, 1979) of the Upper Triassic Nicola Group.

The volcanic rocks are cut by irregular bodies and dykes of variably altered medium-grained porphyritic monzonite and diorite which are believed to be coeval and comagmatic with the volcanic rocks and related to the copper-gold mineralization. Dykes of micromonzonite and microsyenite porphyry, post-mineral in age and not visibly altered, cut the volcanic and intrusive rocks.

The Property contains two separate zones of copper-gold porphyry style mineralization: the Man Zone in the south-central part of the Property, and the Prime Zone some 1,800 metres to the north.

Man Zone

Copper-gold mineralization on the Man Zone is mostly hosted by variably to intensely altered, medium-grained, porphyritic monzodiorite, with lesser amounts found in variably altered volcanic rocks. While a 1981 geological map by Newmont (Visagie, 1981) shows a central stock of syenomonzonite and breccia surrounded by volcanic rocks, a 1989 re-interpretation by Wynne (1989), who integrated surface and sub-surface information from drilling, shows the intrusive rocks as irregular, northwest trending dyke-like bodies cutting variably altered volcanic rocks. Sericite-anhydrite-carbonate alteration may enclose a potassically altered core.

Mineralization on the Man Zone is irregularly and discontinuously distributed over an area of moderate chargeability (≥ 5 milliseconds ("ms")) and low resistivity ("ohm-m") 350 by 300 metres in size. Within this area is a zone of 200 m by 10 to 30 m in size and estimated to average 0.3 to 0.4 percent copper, identified to a depth of 100 metres by drilling and trenching in 1979-1981 by Newmont (Visagie, 1981).

A petrographic study (Le Couteur, 2008) has confirmed the host rock for the copper mineralization is a shallow level monzodiorite intrusion. Lithology, alteration and mineralization on six samples from core taken from drill hole 694-008 were described. The report is included as Appendix I and discussed in Section 12.

Prime Zone

Copper mineralization in the eastern half of the Prime zone is hosted by variably altered volcanic rocks and to a lesser extent by medium-grained monzonite or diorite over an area of approximately 250 by 200 m, which coincides with a northerly trending soil geochemical anomaly and a zone of moderate chargeability (5 to 10 ms) and a weak resistivity low.

The western half of the Prime Zone is a zone of higher chargeability and resistivity (>14 ms and >575 ohm-m) approximately 500 by 300 metres in size of extensive and locally strong pyritic alteration in altered volcanic and intrusive rocks, with only sporadic high copper-gold mineralization.

Some historic drilling on the northern half of the Property indicated copper mineralization to a depth of 100 metres.

Recent drilling (this report) revealed a significant increase in copper / gold mineralization at depth in the north western portion of the property.

6.0 DIAMOND DRILL PROGRAM

A diamond drilling program consisting of two NQ size holes totalling 1,289.9 metres was completed during the period June 1- July 16, 2013. Drilling was contracted to Xplorecore Diamond Drilling Ltd. of Armstrong, B.C.

Core was logged on site by the writer and subsequently transferred to secure storage at Sunrise Resources office / warehouse location in Armstrong, B .C. Sample intervals were marked during logging and subsequently split/sawn in half at the Armstrong facility by Sunrise personnel. A total of 482 samples were sawn and submitted to Actlabs facilities in Kamloops, B.C.

Complete holes were split in 1 m intervals except for several selected shorter intervals where better mineralization was observed. Blanks, commercial standards and duplicate sample assays were inserted in the sample stream approximately every 20-30 samples.

TABLE 2
MAN PRIME 2013 DIAMOND DRILL HOLE DATA

HOLE #	UTM N	COORD E	AZM	DIP	ELEV	LENGTH m	START DATE	END DATE
PR13-01	5515885	681947	180	Collar -70.0	1278m	468.6	June 1/13	June 17/13
				93m -69.75				
				184m -69.0				
				275m -70.5				
				366m -70.5				
				456m -69.75				
PR13-02	5515885	6819477	240	Collar -50.0	1278m	821.3	June 18/13	July 16/13
				185m -49.0				
				276m -45.75				
				368m -45.50				
				459m -46.75				
				551m -47.50				
				642m -49.0				
				734m -50.0				
				819m -50.0				

Coordinates for core storage are 50°23'08", 119°17'31".

Figure 5a and 5b shows drill hole locations while Figures 6 and 7 depict cross sections plots of the diamond drill holes.

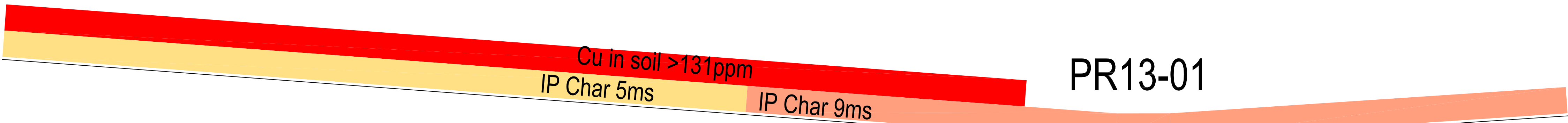
5515700N

5515800N

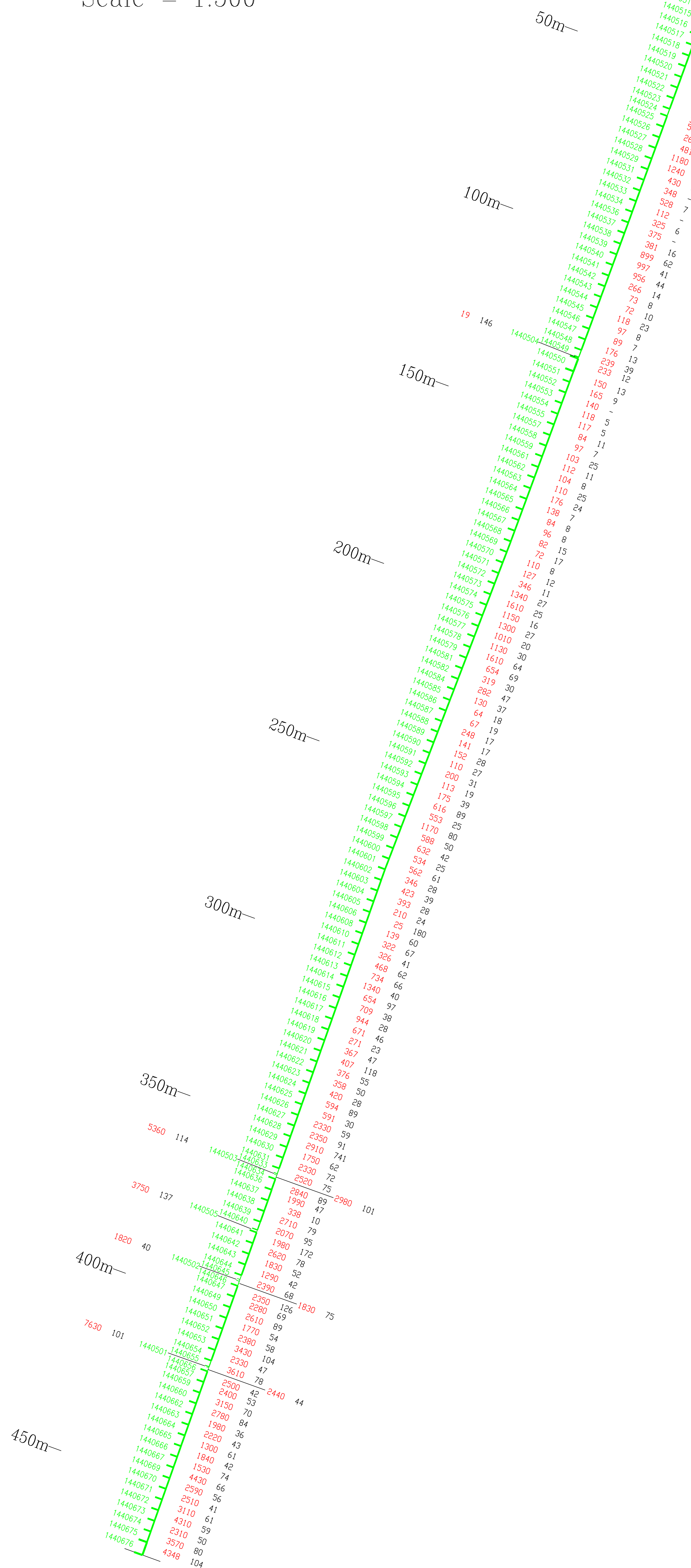
5515900N

5516000N

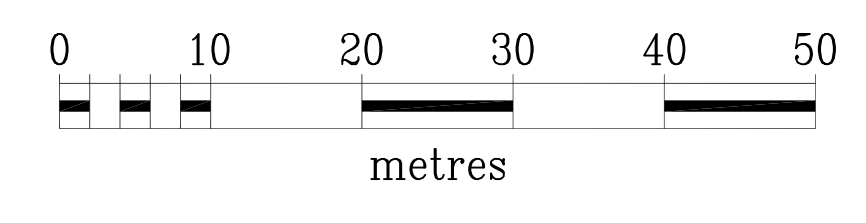
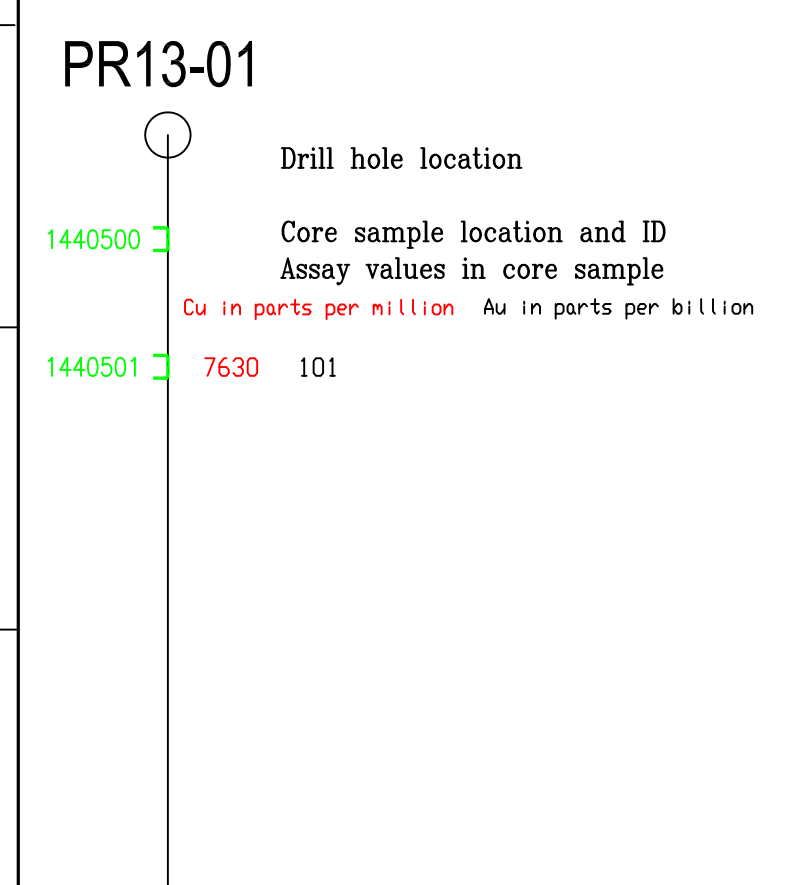
1320m
1300m
1280m
1260m
1240m
1220m
1200m
1180m
1160m
1140m
1120m
1100m
1080m
1060m
1040m
1020m
1000m
980m
960m
940m
920m
900m
880m
860m
840m
820m



681947E
XSec Facing 270°
Scale = 1:500



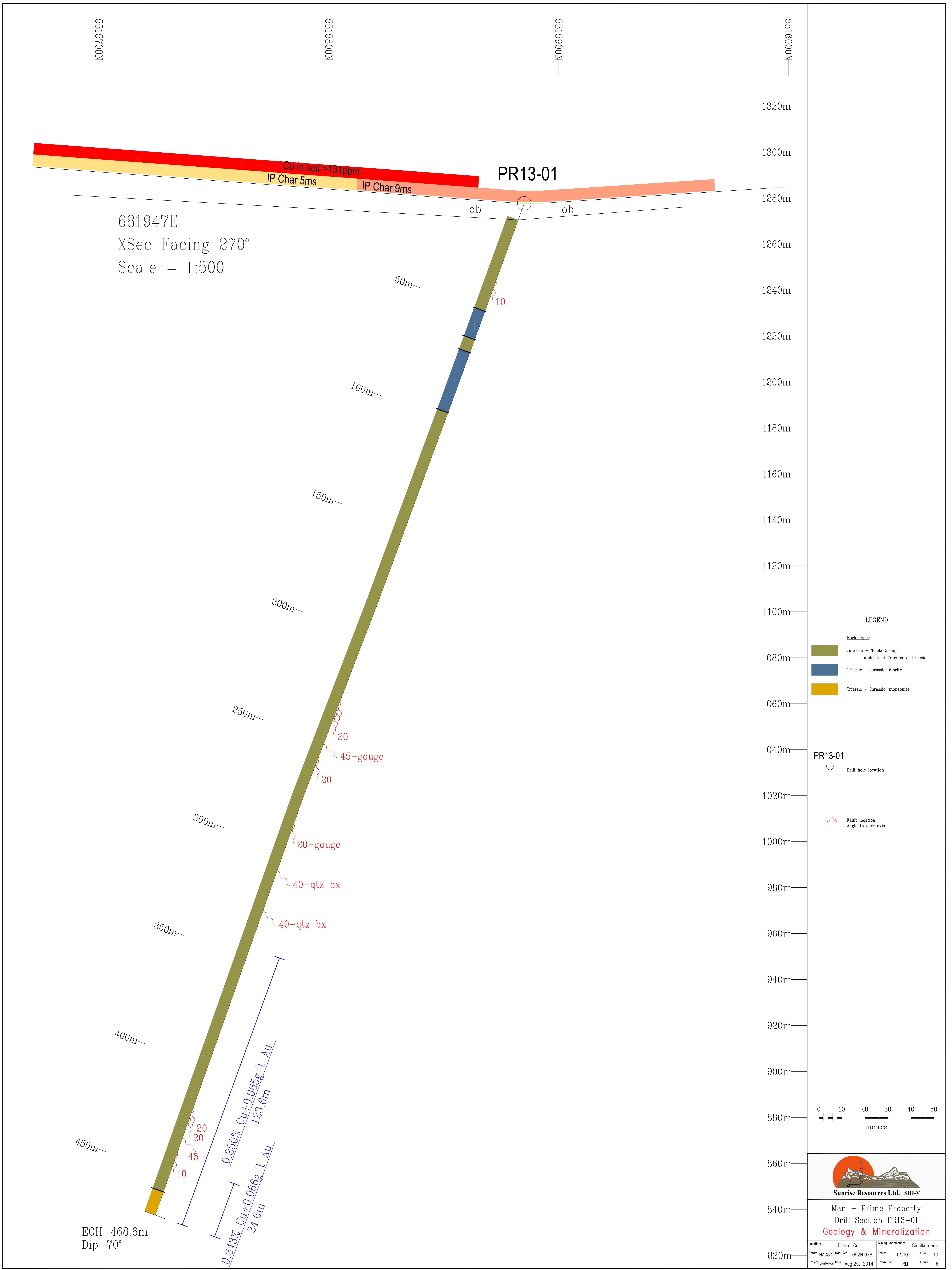
LEGEND



Sunrise Resources Ltd. SH-V
Man - Prime Property
Drill Section PR13-01
Copper-Gold Values

EOH=468.6m
Dip=70°

Location:	Dillard Cr.	Mining Jurisdiction:	Similkameen
Datum:	NAD83	Map Ref.:	092H.078
Project:	ManPrime	Date:	Aug. 25, 2014
Scale:	1:500	Drawn By:	RM
U/M:	10	Figure:	5



5515700N

5515800N

5515900N

5516000N

1320m
1300m
1280m
1260m
1240m
1220m
1200m
1180m
1160m
1140m
1120m
1100m
1080m
1060m
1040m
1020m
1000m
980m
960m
940m
920m
900m
880m
860m
840m
820m

681947E
XSec Facing 270°
Scale = 1:500

PR13-01

Cu in soil >131ppm
IP Char 5ms IP Char 9ms

ob ob

50m

100m

150m

200m

250m

300m

350m

400m

450m

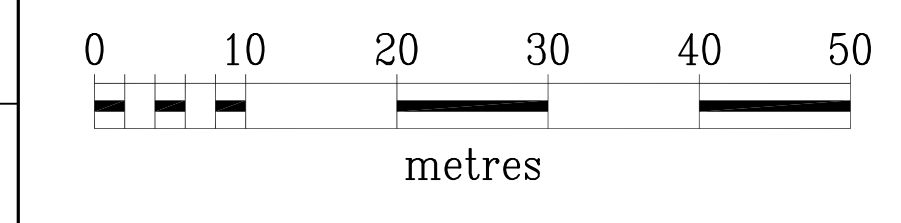
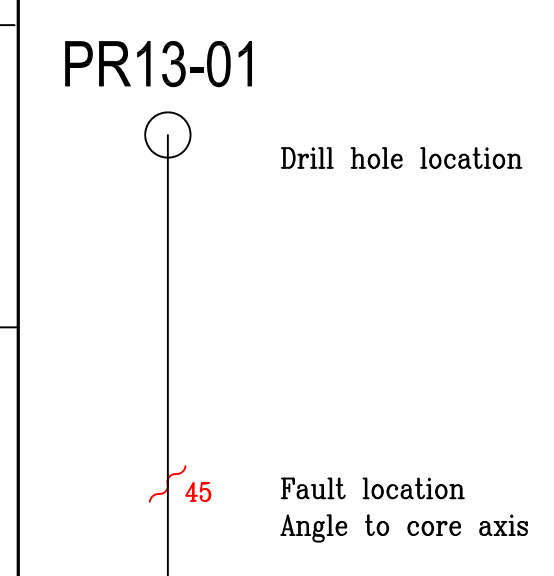
EOH=468.6m
Dip=70°

0.250% Cu+0.085g/t Au
123.6m
0.343% Cu+0.066g/t Au
24.6m

20
45-gouge
20
20-gouge
40-qtz bx
40-qtz bx

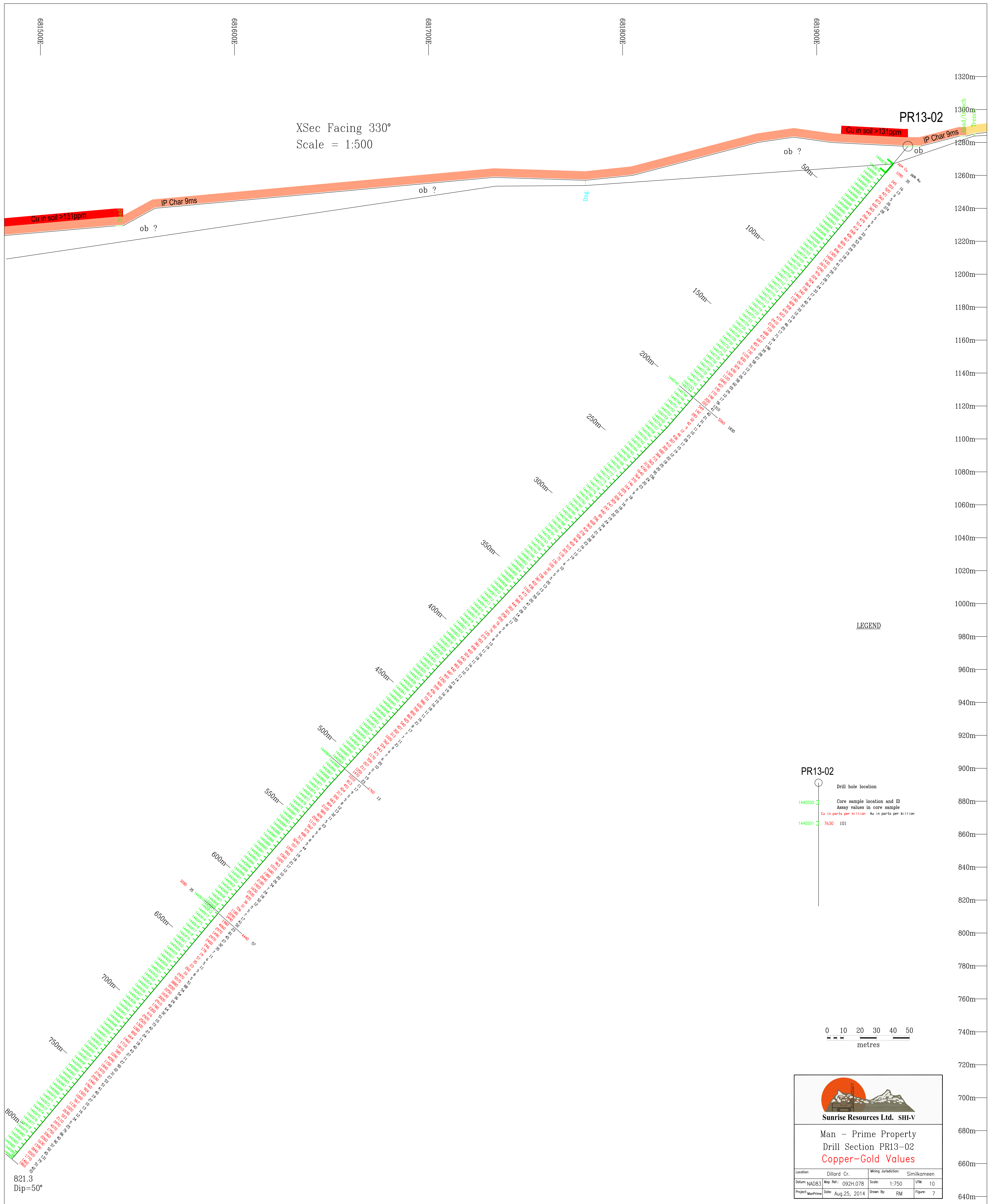
LEGEND

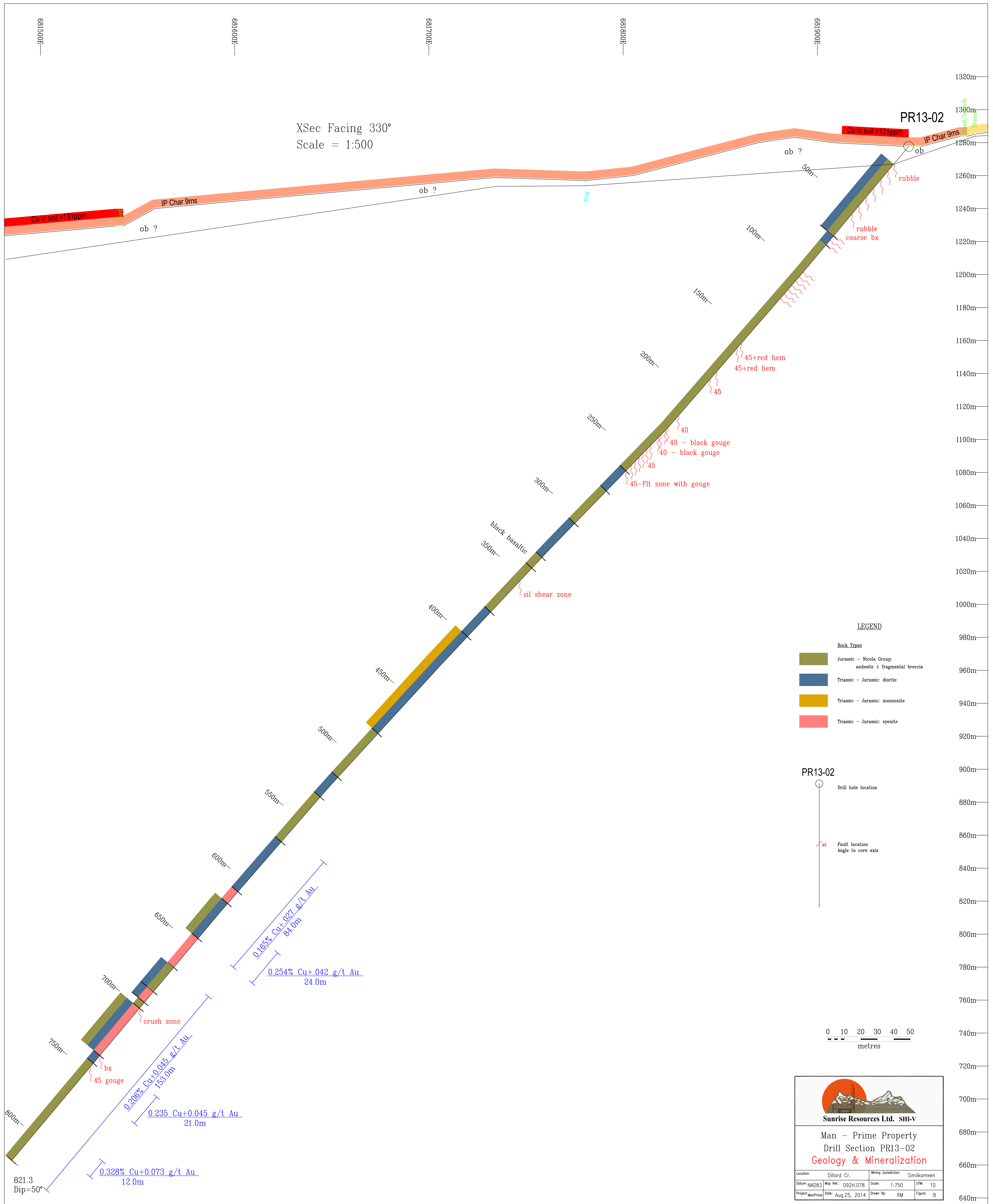
- Rock Types**
- Jurassic - Nicola Group: andesite ± fragmental breccia
 - Triassic - Jurassic: diorite
 - Triassic - Jurassic: monzonite



Man - Prime Property
Drill Section PR13-01
Geology & Mineralization

Location:	Dillard Cr.	Mining Jurisdiction:	Similkameen
Datum:	NAD83	Map Ref.:	092H.078
Scale:	1:500	URN:	10
Project:	ManPrime	Date:	Aug. 25, 2014
Drawn By:	RM	Figure:	6





The Company undertook a re-evaluation of all data covering the Man-Prime property and as a result, selected an area in the northern portion of the claims as having the potential for possible deep mineralization. Earlier diamond drilling completed in the late 1960's returned a number of diamond drill intersections averaging 0.2% - 0.5% copper from shallow drill holes, mostly ending around 30 - 50 m depth. The presence of a large, strong and complex IP anomaly with dimensions of approximately 1200 m x 1500 m coupled with highly anomalous copper values in rock samples on surface added to the attractiveness of the area. An overall structural fabric in the immediate area was interpreted as possibly trending 330° with a steep NE dip.

Drill hole PR13-01 was targeted at attempting to confirm an earlier diamond drill hole (67-7) that reported 0.55% copper over the total hole depth of approximately 44 m. The hole was spotted in a best approximation of the earlier drill hole location and was drilled on an azimuth of 180° and a dip of -70° to twin the earlier hole. While the hole encountered very encouraging fracturing , alteration and weak mineralization in the upper portion of the hole, it became apparent that the deeper the hole advanced, the better the mineralization / alteration became. The hole encountered very fractured, faulted and broken rock, and was finally terminated at 468.6 m when further drill advance became impossible. This was unfortunate, as the last rock type encountered in the hole (after drilling in andesite / diorite for the complete hole), consisted of a highly K feldspar altered monzonite assaying 0.43% copper and 0.104 g/t gold. The entire length of PR13-01 from 7.7 m to 468.6 m averaged 460.9 m of 0.10% copper and 0.043 g/t gold. The deepest section of the hole from 345.0 m - 468.6 m averaged 123.6 m of 0.25% copper and 0.085 g/t gold with the bottom 24.6 m averaging 0.34% copper and 0.066 g/t gold. Interestingly,

the upper portion of the hole that had attracted Sunrise' interest was not repeated in assays.

Drill hole PR13-02 was drilled from the same location as PR13-01 at an azimuth of 240° and a dip of -50°. A plot of the proposed extension of the deep intersection from the newly revealed deep mineralization in hole PR13-01 targeted a horizontal spread of approximately 140 m at a somewhat similar depth below surface. Once again, the hole encountered extremely fractured, faulted and broken ground with sections of poor core recovery. The hole was drilled in a similar andesite / diorite (dioritized andesite) as hole PR13-01 until 400 m when it intersected a weakly mineralized monzodiorite to 480 m. Subsequent andesite / diorite became better mineralized as the hole progressed with additional monzodiorite sections. The final 83 m was in andesite / diorite. The presence of disseminated bornite became evident from approximately 400 m in the hole and continued to the end at 821.3 m. The entire length of PR13-02 from 14.0 m to 821.3 m averaged 807.3 m of 0.08% copper and 0.016 g/t gold. Included within this interval are 621.0 – 645.0 m (24.0 m) averaging 0.25% copper and 0.042 g/t gold and 668.3 – 821.3 m (153.0 m) averaging 0.21% copper and 0.045 g/t gold. This last interval includes 735.0 – 756.0 (21.0 m) averaging 0.24 % copper and 0.045 g/t gold, and 786.0 – 798.0 (12.0 m) averaging 0.33% copper and 0.073 g/t gold.

TABLE 3 DDH ASSAY INTERVAL AVERAGES

PR 13-01								
		FROM	TO	INTERVAL		GRADE		
		metres	metres	metres		Cu %	Au g/t	
		7.7	468.6	460.9		0.100	0.043	
	incl	345.0	468.6	123.6		0.250	0.085	
	incl	444.0	468.6	24.6		0.343	0.066	

PR 13-02								
		FROM	TO	INTERVAL		GRADE		
		metres	metres	metres		Cu %	Au g/t	
		72.0	96.0	24.0		0.132	0.009	
		111.0	120.0	9.0		0.105	0.037	
		132.0	138.0	6.0		0.210	0.021	
		200.3	201.0	0.7		0.642	1.830	
		249.0	258.0	9.0		0.283	0.092	
		426.0	462.0	36.0		0.076	0.026	
		504.0	516.0	12.0		0.109	0.017	
		531.0	549.0	18.0		0.127	0.015	
		561.0	645.0	84.0		0.165	0.027	
	incl	621.0	645.0	24.0		0.254	0.042	
		668.3	821.3	153.0		0.206	0.045	
	incl	735.0	756.0	21.0		0.235	0.045	
	incl	786.0	798.0	12.0		0.328	0.073	
		14.0	821.3	807.3		0.075	0.016	

7.0 ASSAY PROCEDURE

All samples were analyzed by Actlabs in Kamloops, B.C. Copper values were first determined by ICP methods using Actlabs 1E3 procedure which reports values in ppm. Subsequent to the receipt of the ICP data, all samples with copper values > 800 ppm were analysed by Actlabs assay procedure 8-AR with values reported as % copper. Gold results were determined using Actlabs fire assay procedure 1A2-50 with results reported in ppb / g/t gold.

At Actlabs laboratory in Kamloops, the core was crushed to -10 mesh and then riffle split to a 250 g sample. This was then pulverized to -150 mesh. (Actlabs procedure RX-1.) After acid (aqua regia) digestion, the 0.5 g sub sample underwent ICP emission spectrometry analyses for a suite of 35 elements. (Actlabs procedure IE3).

A separate analysis for gold was performed on all samples involving a 50 gram subsample analysed by fire assay with AA finish. (Actlabs procedure 1A2-50).

200 samples that returned copper values >800 ppm Cu from ICP were subject to an additional assay procedure to report copper in %. (Actlabs procedure 8-AR-ICP). This assay data is depicted in the DD logs as bold print in a separate column adjacent to the ICP results.

QA/QC

Field blanks, commercial standards and duplicate sample analyses were inserted into the sample stream approximately every 20-30 samples.

Quality control samples from the lab were included as lab standards for the core samples in approximately every 40 samples, blanks in approximately every 30-40 samples and duplicates in approximately every 30 samples. These standards, blanks and duplicates go through the same preparation and analysis as the regular samples. The analysis of the blanks shows no contamination in the sample preparation. Similarly the analysis of the standards indicates no problems with the analysis.

Assay data is listed in Appendix 2 at the back of the report.

8.0 DISCUSSION AND CONCLUSIONS

The two diamond drill holes tested a small portion of a large and complex IP anomaly measuring approximately 1200 x 1500 m that has proven from earlier drilling and with this just completed program to host important concentrations of copper and gold.

The company is very encouraged by the consistent mineralization encountered at depth over significant intervals in both holes as well as the presence of bornite in recordable amounts in hole PR13-02. The indications of a well mineralized monzonite intrusive at the bottom of hole PR13-01 plus a similar well mineralized monzonite in hole PR13-02, 250 m to the west, lends size potential to this newly discovered mineralization. The mineralized structure remains open in all directions and most importantly, to depth.

9.0 RECOMMENDATIONS

A program of additional diamond drilling is warranted on this property, especially in the areas surrounding and on strike with the newly revealed deep mineralization. A possible deep IP survey could be warranted to attempt to define the better mineralized portions of the volcanic / intrusive complex. The presence of bornite development lends increased importance to this mineralized system.

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11.0 STATEMENT OF COSTS

PERSONNEL	FIELD DAYS - PERIOD	DAYS	RATE	SUBTOTAL	TOTAL
D Shandruk - Excav.operator	June18-July17	3	\$250.00	\$750.00	
M Landers - core splitter	June 25-July30	15	\$150.00	\$2,250.00	
W. Murton Proj. Super.	June 1-July16	46	\$800.00	\$36,800.00	
W. Murton Proj. Core Super.	Log	11	\$800.00	<u>\$8,800.00</u>	
				\$48,600.00	\$48,600.00
OFFICE STUDIES	PERSONNEL	DAYS	RATE	SUBTOTAL	
Project planning, setup,data assess	W. Murton	6	\$800.00	\$4,800.00	
Report Preparation	W. Murton	6	\$800.00	\$4,800.00	
Drafting	Discovery	3	\$350.00	<u>\$1,050.00</u>	
				\$10,650.00	\$10,650.00
GEOCHEMICAL SURVEYING	TYPE OF SAMPLES	NO.	RATE	SUBTOTAL	
699 split dd core samples	core	699	\$23.87	\$16,689.00	\$16,689.00
DRILLING	No. Holes, Core size,	Metres	RATE	SUBTOTAL	
Xplorecore Diamond Drilling	2 NQ holes	1290	\$153.19	\$197,620.00	\$197,620.00
OTHER OPERATIONS	Clarify	NO.	RATE	SUBTOTAL	
Drill pad access / site prep	Excav. Rental hours	26	\$140.00	\$3,640.00	
	Mobe/Demobe hours	10	\$250.00	<u>\$2,500.00</u>	
				\$6,140.00	\$6,140.00
TRANSPORTATION		NO.	RATE	SUBTOTAL	
Truck Rental	1 @ \$50/day-6 days	6	\$50.00	\$300.00	
Truck Rental	1 @ \$50/day-57 days	57	\$50.00	\$2,850.00	
Fuel	2 @ \$30/day (57+6)	63	\$60.00	<u>\$3,780.00</u>	
				\$6,930.00	\$6,930.00
ACCOMODATION & FOOD	Rate / Day	NO.	RATE	SUBTOTAL	
Motel / Food	1 man 6 days/\$100	6	\$100.00	\$600.00	\$600.00
Super stayed at home - no charge					
EQUIPMENT RENTALS		NO.	RATE	SUBTOTAL	
Field Gear	Bags,Tags,Flagging			\$300.00	
Telephones/communication	63 days	63	\$15.00	<u>\$945.00</u>	
				\$1,245.00	\$1,245.00
SUBTOTAL					\$288,474.00
MISCELLANEOUS					
Corp. Management @ +/- 10%					<u>\$28,847.40</u>
TOTAL EXPENDITURE					\$317,321.40

12.0 STATEMENT OF QUALIFICATIONS

I, James Wayne Murton of 1567 McNaughton Road, West Kelowna B.C., V1Z 2S2, President of J.W. Murton & Associates, do hereby certify that:

I am a graduate of the University of Manitoba in 1961 with a BSc. in Geology.

I am a member of the Association of Professional Engineers and Geoscientists of the Province of B.C., registered in 1972, No. 8324.

I have been a practicing Engineer and Geologist since 1961 in Ontario, Manitoba, Saskatchewan, British Columbia, Yukon, Southwestern U.S.A., Alaska, Ghana, Venezuela, Ecuador, Brazil and Peru.

I have been a Manager for construction, development and production on small underground mines and mills in Alaska, Arizona, British Columbia and Ecuador.

I have managed and operated numerous exploration programs for base and precious metals.

As the author of this Aug. 25, 2014 Assessment Report on the 2013 Diamond Drilling Program on the Man Prime Property, I was directly involved and responsible for all aspects of the program.

As of the date of this certification, to the best of the writer's knowledge, information and belief, this Report contains all scientific and technical information that is required to be disclosed to make the report not misleading.

Dated this 25th day of August, 2014

Signed J.W. Murton

J.W. Murton P. Eng.
J.W. Murton and Associates

APPENDIX 1

DIAMOND DRILL HOLE LOGS

J.W.MURTON & ASSOC.														Azimuth:		180.0		HOLE PR 13 - 01		Page 1 of 5			
Hole ID: PR 13-01		Easting: 681947		DIAMOND DRILL LOG										Dip: collar -70		Start Date: June 1, 2013							
TEN. # 512854		Northing: 5515885		Project Name: MAN PRIME		acid 93m -69.75		End Date: June 17, 2013															
Target: IP anomaly		Elev: 1278m		Project No.:		acid 184m -69		Logged by: W.MURTON															
		Depth: 468.6 m		Client Name: SUNRISE RESOURCES		acid 275m -70.50		Core size: NQ															
						acid 366m -70.50																	
						acid 456m -69.75																	
Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results							
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
0.0	7.7	CAS	Mixed sand, rubble																				
7.7	50.0	AND	Blue, fg-mg. Short dio sections, high core loss.												7.7	10.0	2.3	1440506	core	916	0.092	17	1
			chl alt, strong fract 10-20 / m. +/- 1% py and v fg cpy diss throughout												10.0	13.0	3.0	1440507	core	464	0.046	9	< 1
			2 mm cpy str @ 32.8. Low angle (10deg) quartz filled flt zone 36-38 m with sl py / pyrr												13.0	16.0	3.0	1440508	core	501	0.05	14	2
			and 1mm cpy blob.												16.0	19.0	3.0	1440509	core	581	0.058	13	< 1
			Sl - med magnetic to 27 m. Well min section 41.5 - 44.8 m - strs fracture with 10-20% sulphides												19.0	22.0	3.0	1440510	core	317	0.032	7	1
			and from 47.8 - 50.5 m. 1 cm NSS str @ 30 deg @ +/- 43.4 m												22.0	25.0	3.0	1440511	core	416	0.042	12	< 1
			Recovery	from	to	int	%								25.0	28.0	3.0	1440512	core	367	0.037	12	2
				7.7	11.2	0.5	14%								28.0	31.0	3.0	1440513	core	541	0.054	28	< 1
				11.2	14.3	0.7	23%								31.0	34.0	3.0	1440514	core	1170	0.117	94	1
				14.3	17.3	0.6	20%								34.0	37.0	3.0	1440515	core	537	0.054	41	< 1
				17.3	37.2	1.5	8%								37.0	40.0	3.0	1440516	core	1060	0.106	30	1
				37.2	38.7	0.7	47%								40.0	43.0	3.0	1440517	core	451	0.045	12	2
				38.7	41.8	0.7	23%								43.0	46.0	3.0	1440518	core	748	0.075	19	< 1
				41.8	44.8	2.4	80%								46.0	49.0	3.0	1440519	core	928	0.093	9	< 1
				44.8	47.8	1.2	40%								49.0	52.0	3.0	1440520	core	537	0.053	7	< 1
				47.8	50.9	1.7	55%								52.0	55.0	3.0	1440521	core	407	0.041	7	< 1
				50.9	54.5	2.9	81%								55.0	58.0	3.0	1440522	core	508	0.051	6	< 1
				54.5	63.9	9.4	100%								58.0	61.0	3.0	1440523	core	516	0.052	7	1
50.0	63.1	DIO	Mg, bleached pale grey, variably sl mag, sparse sulphides, increasing towards end of section.												61.0	63.0	2.0	1440524	core	344	0.034	8	< 1
			Frac 5-10 / m from 62 on.												63.0	66.0	3.0	1440525	core	523	0.052	13	2
63.1	69.2	AND	Fg, sl brownish cast to the overall blue. Non mag, fract 5-10 / m.												66.0	69.0	3.0	1440526	core	261	0.026	< 5	< 1
			Py / cpy 1-2% up to 5% as strs and blebs.												69.0	72.0	3.0	1440527	core	481	0.048	6	< 1
69.2	97.0	DIO	Sl-med mag, unmineralized, core all broken heavy loss. Occasional speck/bleb cpy, v sl py.												72.0	75.0	3.0	1440528	core	1180	0.118	8	< 1
			Minor pink K feldspar starting @ 93 on fract and slight flooding in core frags.												75.0	78.0	3.0	1440529	core	1240	0.124	9	< 1
			Recovery	from	to	int	%											1440530	std	3630		354	761
				63.9	66.0	1.1	52%								78.0	81.0	3.0	1440531	core	430	0.043	5	4
				66.0	69.0	3.0	100%								81.0	84.0	3.0	1440532	core	348	0.035	< 5	2
				69.0	72.0	1.5	50%								84.0	87.0	3.0	1440533	core	528	0.053	7	2
				72.0	75.0	1.7	57%								87.0	90.0	3.0	1440534	core	112	0.011	< 5	2
				75.0	78.0	1.0	33%											1440535	blk	29		< 5	< 1
				78.0	81.0	1.0	33%								90.0	93.0	3.0	1440536	core	325	0.033	6	1
				81.0	87.0	2.3	38%								93.0	96.0	3.0	1440537	core	375	0.038	< 5	1
				87.0	90.0	2.0	67%								96.0	99.0	3.0	1440538	core	381	0.038	16	< 1
				90.0	93.0	1.5	50%								99.0	102.0	3.0	1440539	core	899	0.09	62	1
				93.0	96.0	2.0	67%								102.0	105.0	3.0	1440540	core	997	0.099	41	1
				96.0	96.6	0.6	100%								105.0	108.0	3.0	1440541	core	956	0.096	44	3

		J.W.MURTON & ASSOC.			Azimuth:	180.0				HOLE PR 13 - 01	Page 2 of 5
Hole ID:	PR 13-01	Easting:	681947	DIAMOND DRILL LOG			Dip:	collar -70	Start Date:		June 1, 2013
TEN. #	512854	Northing:	5515885	Project Name:	MAN PRIME	acid	93m -69.75	End Date:		June 17, 2013	
Target:	IP anomaly	Elev:	1278 m	Project No.:		acid	184m -69	Logged by:		W.MURTON	
		Depth:	468.6 m	Client Name:	SUNRISE RESOURCES	acid	275m -70.50	Core size:		NQ	
						acid	366m -70.50				
						acid	456m -69.75				

Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results			
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From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
97.0	457.9	AND	Grey, fg. Poorly min to 105 v sl	py.											108.0	111.0	3.0	1440542	core	266	0.027	14	<1
			Strong flt zone 97.5 - 103 @ 45	deg. Sl mag											111.0	114.0	3.0	1440543	core	73	0.007	8	<1
			Heavy micro frac throughout to 118 (>20 / m), then less (10-20 / m)												114.0	117.0	3.0	1440544	core	72	0.007	10	<1
			Well min from 105 - 118 vv fg py + cpy. After 118 less sulphides (1%). Blotchy, patchy epid from												117.0	120.0	3.0	1440545	core	118	0.012	23	<1
			118. Sl carb in fract, many @ 90 deg. Few low angle .5 cm str py + v sl cpy continue.												120.0	123.0	3.0	1440546	core	97	0.01	8	<1
			Red hem on fract starting @ 138 with more carb from 142 on. Epid decreasing at 150 from												123.0	126.0	3.0	1440547	core	89	0.009	7	<1
			clots to occasional str, and gone @ 170. A lot of brass on core 173-175 (Cu assay?).												126.0	129.0	3.0	1440548	core	176	0.018	13	<1
			Pale beige K spar starting as str and fract coatings from 170 (1-2%).												129.0	131.0	2.0	1440549	core	239	0.024	39	<1
			And. becoming more mg and dioritic, pale grey 181-183. fg py / cpy 1-2%.												131.0	131.4	0.4	1440504	core	146	0.015	19	<1
			0.5 cm carb / qtz str (5-10 / m) @ 60 deg from 201, all with 1% py + v sl cpy. All micro fract.												131.4	135.0	3.6	1440550	core	233	0.023	12	<1
			All good core recovery from 105 on.												135.0	138.0	3.0	1440551	core	150	0.015	13	<1
			Recovery	<u>from</u>	<u>to</u>	<u>int</u>	<u>%</u>								138.0	141.0	3.0	1440552	core	165	0.017	9	<1
				96.6	99.7	1.6	52%								141.0	144.0	3.0	1440553	core	140	0.014	<5	<1
				99.7	102.7	1.5	50%								144.0	147.0	3.0	1440554	core	118	0.012	5	<1
				102.7	104.9	1.4	64%								147.0	150.0	3.0	1440555	core	117	0.012	5	<1
				104.9	215.5	110.6	100%											1440556	std	3720		341	753
				215.5	217.4	1.5	79%								150.0	153.0	3.0	1440557	core	84	0.008	11	2
				217.4	221.6	1.9	45%								153.0	156.0	3.0	1440558	core	97	0.01	7	<1
				221.6	438.1	216.5	100%								156.0	159.0	3.0	1440559	core	103	0.01	25	<1
				438.1	441.1	2.6	87%											1440560	blk	28		7	<1
				441.1	468.6	27.5	100%								159.0	162.0	3.0	1440561	core	112	0.011	11	<1
			Min increasing from 225 on. 1-2% py + cpy as fg diss and str. Heavy fract 20-30 / m carb												162.0	165.0	3.0	1440562	core	104	0.01	8	<1
			and qtz filled with sl K spar. Fltng 231-233, 236-238, all at +/- 20 deg.												165.0	168.0	3.0	1440563	core	110	0.011	25	<1
			Becoming non mag after faults until 258. Sections breccia (.5 m frags) in and around faults.												168.0	171.0	3.0	1440564	core	176	0.018	24	<1
			1 - 2 m sections beige (K spar?) flooding with better cpy ending at 258. Flts 251-5 cm gouge @												171.0	174.0	3.0	1440565	core	138	0.014	7	<1
			45 deg, 288 with 10 cm gouge at 20 deg.												174.0	177.0	3.0	1440566	core	84	0.008	8	<1
			From 258 And. Becoming darker blue grey, less fract (random) 10 - 20 / m with pink												177.0	180.0	3.0	1440567	core	96	0.01	8	<1
			K spar / qtz, carb filling. Many @ 45 deg. From 291 on, red hem starting on random frac.												180.0	183.0	3.0	1440568	core	82	0.008	15	<1
			Py 1-2 % diss and in fract with vv fg v slight cpy. At 310 - 345 is almost dust size cpy.												183.0	186.0	3.0	1440569	core	72	0.007	17	<1
			309.9 - 310.7 qtz filled breccia / shear zone at 40 deg. Same 328.0 - 328.3.												186.0	189.0	3.0	1440570	core	110	0.011	8	<1
			Red / pink K spar in str starting @ 403, 1 per m. 10 cm vein at 408. 10 cm sections sl												189.0	192.0	3.0	1440571	core	127	0.013	12	<1
			flooding. Blotchy cpy @ 415, 2 - 5 mm blobs and str. At 415.7 is 3mm cpy str parallel to core												192.0	195.0	3.0	1440572	core	346	0.035	11	<1
			with diss cpy surrounding str. Flt zones 419.0 - 420.0, 423.5 - 424.6 at 20 deg, 433.0 - 433.5 @												195.0	198.0	3.0	1440573	core	1340	0.134	27	1
			45 deg. Core all shattered and broken but not much loss. Patchy pale brown alt (bio?) sections												198.0	201.0	3.0	1440574	core	1610	0.161	25	1
			from 434 on. Strong flt 440.0 - 441.0 @ 10 deg. Core all broken. Fw epidote splashes and blobs												201.0	204.0	3.0	1440575	core	1150	0.115	16	<1
			434.0 - 450.0. Fg cpy throughout. 5 mm SS py str @ 45 deg @ 449.1 with 2mm blob cpy before.												204.0	207.0	3.0	1440576	core	1300	0.13	27	<1
															207.0	210.0	3.0	1440577	core	1010	0.101	20	<1

J.W.MURTON & ASSOC.										Azimuth: 180.0		HOLE PR 13 - 01		Page 3 of 5	
Hole ID: PR 13-01	Easting: 681947		DIAMOND DRILL LOG								Dip: collar -70		Start Date: June 1, 2013		
TEN. # 512854	Northing: 5515885		Project Name: MAN PRIME		acid 93m -69.75		End Date: June 17, 2013								
Target: IP anomaly	Elev: 1278 m		Project No.:		acid 184m -69		Logged by: W.MURTON								
	Depth: 468.6 m		Client Name: SUNRISE RESOURCES		acid 275m -70.50		Core size: NQ								
					acid 366m -70.50										
					acid 456m -69.75										

Primary Interval	Alteration Type / Intensity	Mineralization	Assay Interval	Analytical Results
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From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
97.0	457.9	AND	Strong flting has moved sections of brown volcs into contact with "unaltered" volcs. All magnetic.												210.0	213.0	3.0	1440578	core	1130	0.113	30	< 1
															213.0	216.0	3.0	1440579	core	1610	0.161	64	2
																		1440580	std	3690		395	766
			Cpy increasing as 1=2 mm strcs with calcite. Brown (bio?) alt sections contain greater cpy as diss and strcs. Patches of blood red hem and coating calcite.												216.0	219.0	3.0	1440581	core	654	0.065	69	3
			From 450 on, increase in K spar on vein margins and filling - up to 50%. All in addition to pervasive brown (bio?) alt.												219.0	222.0	3.0	1440582	core	319	0.032	30	< 1
																		1440583	blk	254		13	< 1
															222.0	225.0	3.0	1440584	core	282	0.028	47	< 1
457.9	468.6	MONZ	Final 0.7 m becoming monzonitic? Fg - mg. Hb phenos alt to chl. Well min cpy / py.												225.0	228.0	3.0	1440585	core	130	0.013	37	< 1
		EOH													228.0	231.0	3.0	1440586	core	64	0.006	18	< 1
															231.0	234.0	3.0	1440587	core	67	0.007	19	< 1
															234.0	237.0	3.0	1440588	core	248	0.0245	17	< 1
															237.0	240.0	3.0	1440589	core	141	0.014	17	< 1
															240.0	243.0	3.0	1440590	core	152	0.015	28	< 1
															243.0	246.0	3.0	1440591	core	110	0.011	27	< 1
															246.0	249.0	3.0	1440592	core	200	0.02	31	< 1
															249.0	252.0	3.0	1440593	core	113	0.011	19	< 1
															252.0	255.0	3.0	1440594	core	175	0.018	39	1
															255.0	258.0	3.0	1440595	core	616	0.062	89	< 1
															258.0	261.0	3.0	1440596	core	553	0.055	25	< 1
															261.0	264.0	3.0	1440597	core	1170	0.117	80	< 1
															264.0	267.0	3.0	1440598	core	588	0.059	50	< 1
															267.0	270.0	3.0	1440599	core	632	0.063	42	< 1
															270.0	273.0	3.0	1440600	core	534	0.053	25	< 1
															273.0	276.0	3.0	1440601	core	562	0.056	61	< 1
															276.0	279.0	3.0	1440602	core	346	0.035	28	< 1
															279.0	282.0	3.0	1440603	core	423	0.042	39	< 1
															282.0	285.0	3.0	1440604	core	393	0.039	28	< 1
															285.0	288.0	3.0	1440605	core	210	0.021	24	< 1
															288.0	291.0	3.0	1440606	core	180	0.018	25	< 1
																		1440607	std	3500		362	727
															291.0	294.0	3.0	1440608	core	139	0.014	60	3
																		1440609	blk	37		< 5	< 1
															294.0	297.0	3.0	1440610	core	322	0.032	67	< 1
															297.0	300.0	3.0	1440611	core	326	0.033	41	< 1
															300.0	303.0	3.0	1440612	core	468	0.047	62	< 1
															303.0	306.0	3.0	1440613	core	734	0.077	66	< 1
															306.0	309.0	3.0	1440614	core	1340	0.124	40	< 1

				J.W.MURTON & ASSOC.				Azimuth: 180.0		HOLE PR 13 - 01		Page 4 of 5					
Hole ID	PR 13-01			Easting:	681947			DIAMOND DRILL LOG				Dip:	collar -70		Start Date:	June 1, 2013	
TEN. #	512854			Northing:	5515885			Project Name:	MAN PRIME			acid	93m -69.75		End Date:	June 17, 2013	
Target:	IP anomaly			Elev:	1278 m			Project No.:				acid	184m -69		Logged by:	W.MURTON	
				Depth:	468.6 m			Client Name:	SUNRISE RESO URCES			acid	275m -70.50		Core size:	NQ	
												acid	366m -70.50				
												acid	456m -69.75				

Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results			
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From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
															309.0	312.0	3.0	1440615	core	654	0.065	97	< 1
															312.0	315.0	3.0	1440616	core	709	0.069	38	< 1
															315.0	318.0	3.0	1440617	core	944	0.095	28	< 1
															318.0	321.0	3.0	1440618	core	671	0.065	46	< 1
															321.0	324.0	3.0	1440619	core	271	0.027	23	< 1
															324.0	327.0	3.0	1440620	core	367	0.037	47	< 1
															327.0	330.0	3.0	1440621	core	407	0.041	118	< 1
															330.0	333.0	3.0	1440622	core	376	0.038	55	< 1
															333.0	336.0	3.0	1440623	core	358	0.036	50	2
															336.0	339.0	3.0	1440624	core	420	0.042	28	< 1
															339.0	342.0	3.0	1440625	core	594	0.059	89	1
															342.0	345.0	3.0	1440626	core	591	0.059	30	< 1
															345.0	348.0	3.0	1440627	core	2330	0.249	59	< 1
															348.0	351.0	3.0	1440628	core	2350	0.248	91	< 1
															351.0	354.0	3.0	1440629	core	2910	0.280	741	1
															354.0	357.0	3.0	1440630	core	1750	0.169	62	< 1
															357.0	360.0	3.0	1440631	core	2330	0.211	72	2
																		1440632	std	3670		358	761
															360.0	361.5	1.5	1440633	core	2520	0.254	75	3
															361.5	361.9	0.4	1440503	core	5360	0.529	114	< 1
															361.9	363.0	1.1	1440634	core	2890	0.296	101	2
																		1440635	blk	53		< 5	< 1
															363.0	366.0	3.0	1440636	core	2840	0.294	89	2
															366.0	369.0	3.0	1440637	core	1990	0.207	47	1
															369.0	372.0	3.0	1440638	core	338	0.033	10	< 1
															372.0	375.0	3.0	1440639	core	2710	0.278	79	3
															375.0	377.3	2.3	1440640	core	2070	0.214	95	3
															377.3	378.0	0.7	1440505	core	3750	0.358	137	2
															378.0	381.0	3.0	1440641	core	1980	0.197	172	2
															381.0	384.0	3.0	1440642	core	2620	0.273	78	< 1
															384.0	387.0	3.0	1440643	core	1830	0.170	52	< 1
															387.0	390.0	3.0	1440644	core	1290	0.126	42	< 1
															390.0	391.2	1.2	1440645	core	2390	0.239	68	1
															391.2	391.7	0.5	1440502	core	1820	0.170	40	2
															391.7	393.0	1.3	1440646	core	1830	0.178	75	< 1
															393.0	396.0	3.0	1440647	core	2530	0.248	126	1
																		1440648	dup	2440		127	2

						J.W.MURTON & ASSOC.		Azimuth: 180.0				HOLE PR 13 - 01		Page 5 of 5		
Hole ID	PR 13-01	Easting:	681947	DIAMOND DRILL LOG				Dip:	collar -70			Start Date:	June 1, 2013			
TEN. #	512854	Northing:	5515885	Project Name:		MAN PRIME		acid	93m	-69.75		End Date:	June 17, 2013			
Target:	IP anomaly	Elev:	1278 m	Project No.:				acid	184m	-69		Logged by:	W.MURTON			
		Depth:	468.6 m	Client Name:		SUNRISE RESO URCES		acid	275m	-70.50		Core size:	NQ			
								acid	366m	-70.50						
								acid	456m	-69.75						

Primary Interval	Alteration Type / Intensity	Mineralization	Assay Interval	Analytical Results
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From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
															396.0	399.0	3.0	1440649	core	2280	0.233	69	2
															399.0	402.0	3.0	1440650	core	2610	0.259	89	1
															402.0	405.0	3.0	1440651	core	1770	0.179	54	2
															405.0	408.0	3.0	1440652	core	2380	0.223	58	3
															408.0	411.0	3.0	1440653	core	3430	0.363	104	3
															411.0	414.0	3.0	1440654	core	2330	0.224	47	< 1
															414.0	415.7	1.7	1440655	core	3610	0.376	78	< 1
															415.7	416.0	0.3	1440501	core	7630	0.781	101	8
															416.0	417.0	1.0	1440656	core	2440	0.241	44	< 1
															417.0	420.0	3.0	1440657	core	2500	0.254	42	2
																		1440658	std	3570		376	722
															420.0	423.0	3.0	1440659	core	2400	0.249	53	4
															423.0	426.0	3.0	1440660	core	3150	0.302	70	< 1
																		1440661	blk	42		< 5	< 1
															426.0	429.0	3.0	1440662	core	2780	0.247	84	2
															429.0	432.0	3.0	1440663	core	1980	0.171	36	1
															432.0	435.0	3.0	1440664	core	2220	0.203	43	2
															435.0	438.0	3.0	1440665	core	1300	0.129	61	1
															438.0	441.0	3.0	1440666	core	1840	0.177	42	< 1
															441.0	444.0	3.0	1440667	core	1530	0.152	74	2
																		1440668	dup	1530		69	2
															444.0	447.0	3.0	1440669	core	4430	0.436	66	< 1
															447.0	450.0	3.0	1440670	core	2590	0.270	56	< 1
															450.0	453.0	3.0	1440671	core	2510	0.278	41	< 1
															453.0	456.0	3.0	1440672	core	3110	0.291	61	< 1
															456.0	459.0	3.0	1440673	core	4310	0.443	59	2
															459.0	462.0	3.0	1440674	core	2310	0.226	50	< 1
															462.0	465.0	3.0	1440675	core	3570	0.350	80	< 1
															465.0	468.6	3.6	1440676	core	4380	0.429	104	1
																			EOH				

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Hole ID:	PR 13-02		Easting:	681947			DIAMOND DRILL LOG					Dip:	collar -50		Start Date:		June 18, 2013							
TEN. #	512854		Northing:	5515885			Project Name: MAN PRIME					acid	185m	-49	acid	551m	-47.50	End Date: July 16, 2013						
Target:	IP anomaly		Elev:	1278 m			Project No.:					acid	276m	-45.75	acid	642m	-49	Logged by: W.MURTON						
			Depth:	821.3m			Client Name: SUNRISE RESOURCES LTD					acid	368m	-45.50	acid	734m	-50	Core size: NQ						
											acid	459m	-46.75	acid	819m	-50								
Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results								
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py	Cp %	Cp	Mg %	Mg	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)	
0.0	14.0	CAS	Mixed sand, rubble																					
14.0	71.0	DIO / AND	Mix of grey / blue feld pphy And. and Dio. Grading in and out. Oxidized to 19.6. 1-2% py throughout. 1 cm qtz/py, sl cpy str @ 14.3. Carb str starting @ 50 with fract increasing to 10-20 / m. Few 2mm cpy blebs 51-54m. 14-54 all rubble, high core loss. Some volc sections have brownish cast (bio?). 54-71 has sections coarse breccia - dio/volc frags to 7 cm. Cpy blebs and str 1%. At 60m is 10 cm qtz, carb,py(5%) str @ 60 deg.												14.0	21.0	7.0	1440678	core	1090	0.109	35	3	
															21.0	24.0	3.0	1440679	core	345	0.035	16	< 1	
															24.0	27.0	3.0	1440680	core	353	0.035	13	1	
															27.0	30.0	3.0	1440681	core	520	0.052	9	< 1	
71.0	78.0	DIO	Mg clay / chl alt with sl brownish K spar? Flood. 1% diss py + cpy. Few 2mm cpy blebs. Core badly broken 67-78m												30.0	33.0	3.0	1440682	core	421	0.042	5	1	
															33.0	36.0	3.0	1440683	core	562	0.056	26	7	
															36.0	39.0	3.0	1440684	core	873	0.087	374	2	
78.0	261.0	AND	Grey / blue hb/plag ppy. Sections sl brownish alt. Well min v fg dusty py / cpy 5%? Cpy bleb @88.2m Core shattered and micro fract 10-30 / m with qtz / carb. Alt bleached zones 90-94 and 96-100 with random qtzy str and up to 10% py. Core all broken (2 cm size frags) from 100-121. Slight epidote starting @ 128 in 1-2 mm str - 1-2% increasing to 2-5% after 133-147m, then increasing to 10-20% in flooded zones. Pink / buff K spar in str and small flood zones starting @ 131. Micro fract density increasing to 30-50 / m from 130m. Increased carb + blue gypsum /selenite? in .5 cm str. 5 cm NSS py @ 139.8 @ 60-65 deg. 2 cm same @ 141.2 and 5 cm qtzy sulphide str @ 142.6 @ 45 deg. Dk blood red hem in faults @157-157.9 and 161- 162 @ 45 deg. Becoming less min. after faults (<1% py, v v sl cpy) not diss, only odd str. Less fract also (10-20 / m). Same little epidote and K spar / hem staining in fract. Core broken by faulting from 180-186 @ 45 deg. Micro fract increase after faults.													39.0	42.0	3.0	1440685	core	600	0.06	28	2
															42.0	45.0	3.0	1440686	core	365	0.037	7	< 1	
															45.0	48.0	3.0	1440687	core	445	0.045	5	< 1	
															48.0	51.0	3.0	1440688	core	266	0.027	5	5	
															51.0	54.0	3.0	1440689	core	479	0.048	8	5	
															54.0	57.0	3.0	1440690	core	514	0.051	7	9	
															57.0	60.0	3.0	1440691	core	414	0.041	33	4	
															60.0	63.0	3.0	1440692	core	268	0.027	30	3	
															63.0	66.0	3.0	1440693	core	406	0.041	53	10	
															66.0	69.0	3.0	1440694	core	467	0.047	25	4	
															69.0	72.0	3.0	1440695	core	826	0.076	29	4	
															72.0	75.0	3.0	1440696	core	927	0.083	15	3	
																		1440697	std	3920		306	776	
																		1440698	core	896	0.081	18	5	
																		1440699	core	1320	0.130	27	2	
																		1440700	core	1680	0.158	41	3	
																		1440701	core	1430	0.132	15	3	
																		1440702	blk	37		5	2	
																		1440703	core	2670	0.260	59	2	
																		1440704	core	1290	0.121	21	< 1	
																		1440705	core	976	0.089	28	< 1	
																		1440706	core	224	0.022	17	< 1	
																		1440707	core	504	0.05	24	< 1	
																		1440708	core	864	0.086	33	1	
																		1440709	core	738	0.074	17	1	
																		1440710	dup	535	0.054	17	1	
																		1440711	core	540	0.054	14	1	
																		1440712	core	1460	0.146	40	< 1	

J.W.MURTON & ASSOC.															Azimuth:		240		HOLE PR 13 - 02		Page 2 of 9			
Hole ID:	PR 13-02		Easting:	681947		DIAMOND DRILL LOG					Dip:	collar -50		Start Date:		June 18, 2013								
TEN. #	512854		Northing:	5515885		Project Name:		MAN PRIME			acid	185m -49		acid	551m -47.50		End Date:		July 16, 2013					
Target:	IP anomaly		Elev:	1278 m		Project No.:					acid	276m -45.75		acid	642m -49		Logged by:		W.MURTON					
			Depth:	821.3m		Client Name:		SUNRISE RESOURCES LTD			acid	368m -45.50		acid	734m -50		Core size:		NQ					
											acid	459m -46.75		acid	819m -50									
Primary Interval			Alteration Type / Intensity					Mineralization					Assay Interval				Analytical Results							
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py	Cp %	Cp	Mg %	Mg	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)	
78.0	261.0	AND	From 186 start of K spar flooding in 1-2 m sections, heavy micro fract with carb / gyp 20-50/m. All variably magnetic. V v fg dusty sulphides py / cpy starting @ 186. 8 cm SS py +/- cpy str @ 196.6 @ 50 deg, and 40 cm quartz / py + cpy str with 50% sulphides @ 200.5 @ 50 deg. Many 2 mm str cpy / py throughout. K spar rimming veinlets and in fract. From 215 - 260 core all shattered, some cemented with carb / gyp / kspar. Fract 100 / m. Strong flt zone @ 225 - 227 @ 40 deg - black gouge (after sulphides), and @ 231 - 233. High core loss - gravel size frags. K spar veining and fract filling increasing from 230m. 240 -261 fault zone (gouge) @ 45 deg. Frags containing py + cpy. 1-5% py, < 1% cpy. Sections grey / black gouge with heavy py in gouge. At 251.6 is +/- 5 x 5 cm frag epidotized And with 2-5 % cpy + py.													114.0	117.0	3.0	1440713	core	1180	0.106	37	1
																117.0	120.0	3.0	1440714	core	828	0.074	33	1
																120.0	123.0	3.0	1440715	core	358	0.038	12	2
																123.0	126.0	3.0	1440716	core	693	0.062	28	< 1
																126.0	129.0	3.0	1440717	core	623	0.056	19	< 1
																129.0	132.0	3.0	1440718	core	419	0.039	46	< 1
																132.0	135.0	3.0	1440719	core	2410	0.223	25	< 1
																135.0	138.0	3.0	1440720	core	2150	0.196	17	1
																138.0	141.0	3.0	1440721	core	739	0.072	71	< 1
																		1440722	std	3910		386	773	
																141.0	144.0	3.0	1440723	core	688	0.066	34	5
																144.0	147.0	3.0	1440724	core	472	472	11	5
																147.0	150.0	3.0	1440725	core	687	0.069	198	3
																		1440726	blk	38		5	< 1	
																150.0	153.0	3.0	1440727	core	857	0.086	39	< 1
																153.0	156.0	3.0	1440728	core	519	0.052	28	< 1
																156.0	159.0	3.0	1440729	core	732	0.073	27	2
																159.0	162.0	3.0	1440730	core	1120	0.112	58	< 1
																		1440731	dup	866		47	< 1	
																162.0	165.0	3.0	1440732	core	830	0.083	51	< 1
																165.0	168.0	3.0	1440733	core	267	0.027	13	< 1
																168.0	171.0	3.0	1440734	core	329	0.033	13	< 1
																171.0	174.0	3.0	1440735	core	690	0.069	26	< 1
																174.0	177.0	3.0	1440736	core	1320	0.126	58	< 1
																177.0	180.0	3.0	1440737	core	1120	0.105	60	< 1
																180.0	183.0	3.0	1440738	core	1840	0.171	55	1
																183.0	186.0	3.0	1440739	core	407	0.041	29	< 1
																186.0	189.0	3.0	1440740	core	195	0.020	12	2
																189.0	192.0	3.0	1440741	core	170	0.017	17	< 1
																192.0	195.0	3.0	1440742	core	198	0.017	56	< 1
																195.0	198.0	3.0	1440743	core	200	0.020	1310	< 1
																198.0	200.3	2.3	1440744	core	222	0.022	41	3
																200.3	201.0	0.7	1440745	core	5060	0.642	1830	1
																201.0	204.0	3.0	1440746	core	549	0.055	40	1
																		1440747	std	3940		352	784	
																204.0	207.0	3.0	1440748	core	142	0.014	21	5

J.W.MURTON & ASSOC.										Azimuth: 240		HOLE PR 13 - 02		Page 3 of 9	
Hole ID:	PR 13-02		Easting:	681947	DIAMOND DRILL LOC					Dip:	collar -50	Start Date:		June 18, 2013	
TEN. #	512854		Northing:	5515885	Project Name: MAN PRIME					acid	185m -49	acid	551m -47.50	End Date:	July 16, 2013
Target:	IP anomaly		Elev:	1278 m	Project No.:					acid	276m -45.75	acid	642m -49	Logged by:	W.MURTON
			Depth:	821.3m	Client Name: SUNRISE RESOURCES LTD					acid	368m -45.50	acid	734m -50	Core size:	NQ
									acid	459m -46.75	acid	819m -50			

Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results			
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From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py	Cp %	Cp	Mg %	Mg	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
															207.0	210.0	3.0	1440749	core	283	0.028	31	< 1
																		1440750	blk	36	0.004	5	< 1
261.0	278.0	DIO	?? Slightly more coarse grained than volcs, chl alt, sheared, fract, carb / K spar filled, 1-2% diss py / cpy.												210.0	213.0	3.0	1440751	core	32	0.003	14	< 1
															213.0	216.0	3.0	1440752	core	42	0.004	11	< 1
278.0	305.5	AND	Feld pphy, green / blue / grey. Fract 20-30 / m. Diss v v fg py / cpy. Speck born @ 282. Scattered 1 cm frags with qtz / carb / gyp @ 70 deg. Sl py. Scattered 5-10 cm sections brownish K spar? flooding. 1 cm low angle (20 deg) py / cpy vein @ 297.												216.0	219.0	3.0	1440753	core	9	0.001	10	< 1
															219.0	222.0	3.0	1440754	core	12	0.001	21	2
															222.0	225.0	3.0	1440755	core	46	0.005	28	8
															225.0	228.0	3.0	1440756	core	436	0.044	17	8
															228.0	231.0	3.0	1440757	core	307	0.031	15	7
															231.0	234.0	3.0	1440758	core	412	0.041	19	15
																		1440759	dup	298	0.029	12	14
															234.0	237.0	3.0	1440760	core	305	0.031	12	24
															237.0	240.0	3.0	1440761	core	682	0.068	22	8
															240.0	243.0	3.0	1440762	core	384	0.038	18	5
															243.0	246.0	3.0	1440763	core	715	0.072	25	17
															246.0	249.0	3.0	1440764	core	565	0.057	20	13
															249.0	252.0	3.0	1440765	core	3150	0.272	95	20
															252.0	255.0	3.0	1440766	core	4740	0.428	156	11
															255.0	258.0	3.0	1440767	core	1640	0.148	24	14
															258.0	261.0	3.0	1440768	core	564	0.056	20	17
															261.0	264.0	3.0	1440769	core	370	0.037	23	6
																		1440770	std	3710		324	712
															264.0	267.0	3.0	1440771	core	146	0.015	9	63
															267.0	270.0	3.0	1440772	core	164	0.016	9	35
																		1440773	blk	37		5	1
															270.0	273.0	3.0	1440774	core	205	0.021	18	13
															273.0	276.0	3.0	1440775	core	164	0.016	5	10
																		1440776	dup	335		11	10
															276.0	279.0	3.0	1440777	core	328	0.033	16	12
															279.0	282.0	3.0	1440778	core	309	0.031	18	21
															282.0	285.0	3.0	1440779	core	247	0.025	22	4
															285.0	288.0	3.0	1440780	core	247	0.025	22	5
															288.0	291.0	3.0	1440781	core	442	0.044	19	6
															291.0	294.0	3.0	1440782	core	89	0.009	24	17
															294.0	297.0	3.0	1440783	core	596	0.060	34	52
															297.0	300.0	3.0	1440784	core	668	0.067	74	25

J.W.MURTON & ASSOC.													Azimuth: 240		HOLE PR 13 - 02		Page 4 of 9						
Hole ID:	PR 13-02		Easting:	DIAMOND DRILL LOC									Dip:	collar	-50	Start Date:	June 18, 2013						
TEN. #	512854		Northing:	5515885									acid	185m	-49	acid	551m	-47.50	End Date:	July 16, 2013			
Target:	IP anomaly		Elev:	1278 m									acid	276m	-45.75	acid	642m	-49	Logged by:	W.MURTON			
			Depth:	821.3m									acid	368m	-45.50	acid	734m	-50	Core size:	NQ			
Primary Interval			Alteration Type / Intensity			Mineralization			Assay Interval			Analytical Results											
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py	Cp %	Cp	Mg %	Mg	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
															300.0	303.0	3.0	1440785	core	365	0.037	21	10
															303.0	306.0	3.0	1440786	core	434	0.043	18	8
305.5	334.0	DIO	Fg - mg lighter grey, sect feld pphy (like the And.). Fract 5-10 / m. Less <.5% cpy in dio, 2-5% py and decreasing to 0% cpy and .5% py @ 330.												306.0	309.0	3.0	1440787	core	278	0.028	28	6
															309.0	312.0	3.0	1440788	core	506	0.051	23	6
334.0	343.0	BAS	Black basaltic And. Fract 5-10 / m. 2 mm carb amygdules.												312.0	315.0	3.0	1440789	core	304	0.030	16	13
															315.0	318.0	3.0	1440790	core	409	0.041	17	56
															318.0	321.0	3.0	1440791	core	315	0.032	13	18
															321.0	324.0	3.0	1440792	core	325	0.033	19	15
															324.0	327.0	3.0	1440793	core	118	0.012	7	21
															327.0	330.0	3.0	1440794	core	75	0.008	6	30
																		1440795	std	3900	0.390	315	775
															330.0	333.0	3.0	1440796	core	130	0.013	10	13
															333.0	336.0	3.0	1440797	core	100	0.010	5	< 1
																		1440798	blk	23	0.002	5	< 1
															336.0	339.0	3.0	1440799	core	32	0.003	5	< 1
																		1440800	dup	28	0.003	5	1
															339.0	342.0	3.0	1440801	core	30	0.003	5	5
															342.0	345.0	3.0	1440802	core	158	0.016	20	9
343.0	379.5	AND	Feld pphy, dk grey, mixed with sections dio. Fract 10-20 / m increasing to 20-50 / m 348 - 360. Almost a "crackle zone" to 355. 5% py, 0% cpy. (Py very yellow). 1 cm broken vein of NSS py in qtz shear @ 354. Fract from 360 on 10-20 / m. Sections bleached / silicified. Bornite diss starting +/- 378m with 5% py.												345.0	348.0	3.0	1440803	core	387	0.039	13	11
															348.0	351.0	3.0	1440804	core	422	0.042	13	5
															351.0	354.0	3.0	1440805	core	438	0.044	12	13
															354.0	357.0	3.0	1440806	core	1160	0.116	59	11
															357.0	360.0	3.0	1440807	core	473	0.047	20	19
379.5	400.0	DIO	Usual grey, fg-mg with 1-2% py/cpy plus bornite, all as micro fract fillings and diss.												360.0	363.0	3.0	1440808	core	416	0.042	47	11
															363.0	366.0	3.0	1440809	core	389	0.039	15	10
															366.0	369.0	3.0	1440810	core	444	0.044	28	18
															369.0	372.0	3.0	1440811	core	303	0.030	14	22
															372.0	375.0	3.0	1440812	core	321	0.032	155	19
															375.0	378.0	3.0	1440813	core	258	0.026	11	23
															378.0	381.0	3.0	1440814	core	200	0.020	8	66
															381.0	384.0	3.0	1440815	core	76	0.008	5	8
															384.0	387.0	3.0	1440816	core	82	0.008	6	11
															387.0	390.0	3.0	1440817	core	76	0.008	5	7
															390.0	393.0	3.0	1440818	core	125	0.013	8	27
															393.0	396.0	3.0	1440819	core	279	0.028	13	4
																		1440820	std	3790	0.379	342	718
															396.0	399.0	3.0	1440821	core	353	0.035	19	8

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Hole ID:	PR 13-02		Easting:	DIAMOND DRILL LOG						Dip:	collar	-50	Start Date:	June 18, 2013									
TEN. #	512854		Northing:	5515885		Project Name:	MAN PRIME		acid	185m	-49	acid	551m	-47.50	End Date:	July 16, 2013							
Target:	IP anomaly		Elev:	1278 m		Project No.:			acid	276m	-45.75	acid	642m	-49	Logged by:	W.MURTON							
			Depth:	821.3m		Client Name:	SUNRISE RESOURCES LTD		acid	368m	-45.50	acid	734m	-50	Core size:	NQ							
									acid	459m	-46.75	acid	819m	-50									
Primary Interval			Alteration Type / Intensity				Mineralization				Assay Interval			Analytical Results									
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
															399.0	402.0	3.0	1440822	core	381	0.038	11	< 1
															402.0	405.0	3.0	1440823	core	498	0.050	16	9
400.0	480.0	MONZO	?? Gradual change from Dio. Sections Dio and feld pphy And. All fg - mg mix.														1440824	blk	30	0.003	5	1	
		DIO	Grey, pale blue / green. 2-3 cm qtz / py / born vein @ 412m @ 60 deg. All diss 2-5 % py / cpy.														1440825	core	422	0.042	18	4	
			A lot of pale "purple flood" showing up, usually near bornite. Fluorite or anhydrite?														1440826	core	324	0.032	11	24	
			Sections with 1 cm qtz / cpy / py veining. From +/- 400m presence of brown clots / diss - siderite?														1440827	core	642	0.064	16	13	
			Soft. +/- 5% by volume. Sections variably fract and vaiable mag with few epidote patches.														1440828	dup	721	0.072	13	13	
			1-2 m scattered sections K spar flooded, usually with good cpy and born.														1440829	core	685	0.069	13	11	
			469.0 - 474.0K spar flood Monz? Fract 10-20 / m, qtz filled, less sulphides (1%). At 479 is 10-15 cm														1440830	core	483	0.048	10	9	
			frag (xenolith?) Dio within Monz.														1440831	core	442	0.044	11	13	
480.0	516.0	AND	Feld ppy, dk grey / blue. Fract 10-20 / m. Well min 5% py +/- bornite. 1 mm bornite or anhydrite?/ veinlets														1440832	core	687	0.069	14	26	
			ubiquitous but especailly around 495.3. From 490 on a lot of pink carb on fract. Hem stained carb.														1440833	core	997	0.094	21	37	
			Random 1 m Dio sections, all well min cpy.														1440834	core	1350	0.125	38	11	
															432.0	435.0	3.0	1440835	core	900	0.081	19	7
															435.0	438.0	3.0	1440836	core	599	0.060	16	15
															438.0	441.0	3.0	1440837	core	456	0.046	10	43
															441.0	444.0	3.0	1440838	core	814	0.076	15	18
															444.0	447.0	3.0	1440839	core	731	0.067	16	27
															447.0	450.0	3.0	1440840	core	986	0.092	118	17
															450.0	453.0	3.0	1440841	core	600	0.052	11	34
															453.0	456.0	3.0	1440842	core	592	0.061	11	43
															456.0	459.0	3.0	1440843	core	800	0.083	16	35
																		1440844	std	3920		366	782
															459.0	462.0	3.0	1440845	core	865	0.081	21	14
															462.0	465.0	3.0	1440846	core	425	0.043	8	14
																		1440847	blk	38	0.004	5	1
															465.0	468.0	3.0	1440848	core	540	0.054	17	5
															468.0	471.0	3.0	1440849	core	407	0.041	7	8
																		1440850	dup	289	0.029	11	9
															471.0	474.0	3.0	1440851	core	302	0.030	7	6
															474.0	477.0	3.0	1440852	core	613	0.061	11	19
															477.0	480.0	3.0	1440853	core	1220	0.112	21	18
															480.0	483.0	3.0	1440854	core	562	0.056	9	8
															483.0	486.0	3.0	1440855	core	334	0.033	6	10
															486.0	489.0	3.0	1440856	core	443	0.044	7	6
															489.0	492.0	3.0	1440857	core	471	0.047	6	19
															492.0	495.0	3.0	1440858	core	1170	0.111	20	18

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Hole ID:	PR 13-02			Easting:	681947			DIAMOND DRILL LOC							Dip:	collar	-50		Start Date:		June 18, 2013		
TEN. #	512854			Northing:	5515885			Project Name:		MAN PRIME		acid	185m	-49	acid	551m	-47.50	End Date:		July 16, 2013			
Target:	IP anomaly			Elev:	1278 m			Project No.:				acid	276m	-45.75	acid	642m	-49	Logged by:		W.MURTON			
				Depth:	821.3m			Client Name:		SUNRISE RESOURCES LTD		acid	368m	-45.50	acid	734m	-50	Core size:		NQ			
											acid	459m	-46.75	acid	819m	-50							
Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results							
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)
608.1	617.6	SYEN	Frozen chilled contact with alt Dio / (breccia?).												591.0	594.0	3.0	1440896	core	2840	0.256	54	16
617.6	645.4	DIO / AND	Mix of Dio. and And. breccia? Py 5% 1% cpy.															1440897	blk	43		5	1
			K spar in strs and small flood zones. Heavy fract 20-40 / m 623 - 625. Qtz / carb filled.												594.0	597.0	3.0	1440898	core	2180	0.206	27	7
			7 cm NSS py,cpy,born str @ 625.7 @ 65 deg to core. 5-10% py and 1-2% cpy from 624-645.												597.0	600.0	3.0	1440899	core	1920	0.180	24	7
			Diss and strs and fine dusty fine. 2-5% born / cpy @ 628 - core is pink /purple color.(born or anhydrite?).															1440900	dup	1600		17	7
			Bornite veinlet @ 638.7.												600.0	603.0	3.0	1440901	core	1650	0.148	18	9
															603.0	606.0	3.0	1440902	core	2530	0.235	52	4
															606.0	609.0	3.0	1440903	core	835	0.078	12	< 1
															609.0	612.0	3.0	1440904	core	36	0.004	5	< 1
															612.0	615.0	3.0	1440905	core	31	0.003	5	< 1
															615.0	618.0	3.0	1440906	core	706	0.066	7	6
															618.0	621.0	3.0	1440907	core	1180	0.113	17	16
															621.0	624.0	3.0	1440908	core	2290	0.205	41	20
															624.0	625.7	1.7	1440909	core	3490	0.334	52	10
															625.7	625.9	0.2	1440910	core	3280	0.326	35	39
															625.9	627.0	1.1	1440911	core	4440	0.412	57	39
															627.0	630.0	3.0	1440912	core	1980	0.184	23	58
															630.0	633.0	3.0	1440913	core	4060	0.366	81	47
															633.0	636.0	3.0	1440914	core	2970	0.265	45	21
															636.0	639.0	3.0	1440915	core	1490	0.135	27	35
															639.0	642.0	3.0	1440916	core	2970	0.286	32	43
															642.0	645.0	3.0	1440917	core	2400	0.227	35	7
															645.0	648.0	3.0	1440918	core	246	0.025	7	3
															648.0	651.0	3.0	1440919	core	178	0.018	11	3
																		1440920	std	3790		401	740
															651.0	654.0	3.0	1440921	core	19	0.002	6	7
															654.0	657.0	3.0	1440922	core	57	0.006	5	8
																		1440923	blk	33		5	1
															657.0	660.0	3.0	1440924	core	35	0.004	11	11
															660.0	663.0	3.0	1440925	core	23	0.002	5	8
																		1440926	dup	302		5	7
															663.0	666.0	3.0	1440927	core	260	0.026	8	17
															666.0	669.0	3.0	1440928	core	33	0.003	5	30
															669.0	672.0	3.0	1440929	core	2970	0.282	51	60
															672.0	675.0	3.0	1440930	core	5570	0.577	88	56
															675.0	678.0	3.0	1440931	core	3880	0.378	54	54
															678.0	681.0	3.0	1440932	core	3550	0.354	57	51

J.W.MURTON & ASSOC.										Azimuth: 240		HOLE PR 13 - 02		Page 9 of 9				
Hole ID:	PR 13-02		Easting:	681947		DIAMOND DRILL LOC				Dip:	collar -50		Start Date:	June 18, 2013				
TEN. #	512854		Northing:	5515885		Project Name: MAN PRIME				acid	185m -49		acid	551m -47.50		End Date:	July 16, 2013	
Target:	IP anomaly		Elev:	1278 m		Project No.:				acid	276m -45.75		acid	642m -49		Logged by:	W.MURTON	
			Depth:	821.3m		Client Name: SUNRISE RESOURCES LTD				acid	368m -45.50		acid	734m -50		Core size:	NQ	
										acid	459m -46.75		acid	819m -50				

Primary Interval			Alteration Type / Intensity			Mineralization			Assay Interval			Analytical Results			
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From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py	Cp %	Cp	Mg %	Mg	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)	
744.1	821.3	AND	feld pphy + DIO sections. Bleached with silicified skarny zones. 2% born / cpy veinlets. Purple / black drill mud on and in fault gouge. Faults at 45 deg. Fract 20-50 / m. 1-2 cm patches of jasper starting at 747.4 - brown / orange. 1-2 / m. Weak K spar starting on vein walls and weak flooding over 1-2 cm. Bornite? / black purple mud @ 778. Core has 1 mm purple spots - bornite or anhydrite? 3-5% v v fg cpy ubiquitous and especially at 778 and 794. .5 cm cpy / born str @ 778.6 @ 30 deg to core. Same type str qtzy, cpy, py, born @ 788 @ 45 deg. This section from around 778 - 798 is almost a "bornite pphy" AND /DIO. Low angle fract (15 deg) @ 802.7, all coated with bornite. Core has a very pale purple cast. Low angle cpy,py,born str @ 805.5 - 807 in patchy skarn. Diss born throughout. Increase in 1 m jasper / epidote skarny sections from 804 to EOH. Plag phenos altered to jasper. Heavy skarn development from 810 on in 1-3 m sections - jasper / epidote with increased cpy in skarn. Some low angle cpy / skarn str.													774.0	777.0	3.0	1440970	core	1020	0.102	12	3
															777.0	780.0	3.0	1440971	core	2690	0.267	34	1	
															780.0	783.0	3.0	1440972	core	523	0.052	5	1	
															783.0	786.0	3.0	1440973	core	2110	0.219	25	2	
															786.0	789.0	3.0	1440974	core	3970	0.406	76	4	
															789.0	792.0	3.0	1440975	core	4070	0.406	86	1	
															792.0	795.0	3.0	1440976	core	1750	0.164	40	< 1	
															795.0	798.0	3.0	1440977	core	3360	0.335	90	11	
															798.0	801.0	3.0	1440978	core	2060	0.202	57	4	
															801.0	804.0	3.0	1440979	core	1630	0.167	52	21	
															804.0	807.0	3.0	1440980	core	1590	0.165	45	18	
																		1440981	std	3630		360	705	
															807.0	810.0	3.0	1440982	core	3840	0.371	131	8	
	821.3	EOH													810.0	813.0	3.0	1440983	core	2020	0.198	79	10	
																		1440984	blk	49		5	< 1	
															813.0	816.0	3.0	1440985	core	1770	0.169	51	10	
															816.0	819.0	3.0	1440986	core	1460	0.139	42	7	
																		1440987	dup	1900		67	7	
															819.0	821.3	2.3	1440988	core	1860	0.183	70	7	
																		EOH						

J.W.MURTON & ASSOC.														Azimuth: 240		HOLE PR 13 - 02		Page 6 of 9						
Hole ID:	PR 13-02			Easting:	DIAMOND DRILL LOC										Dip:	collar -50		Start Date:		June 18, 2013				
TEN. #	512854			Northing:	5515885										acid	185m -49		acid	551m -47.50		End Date:		July 16, 2013	
Target:	IP anomaly			Elev:	1278 m										acid	276m -45.75		acid	642m -49		Logged by:		W.MURTON	
				Depth:	821.3m										acid	368m -45.50		acid	734m -50		Core size:		NQ	
															acid	459m -46.75		acid	819m -50					
Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results								
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)	
516.0	532.0	DIO	Fg - mg, grey,unaltered,fract <10 / m, Less K spar alt than above section.												495.0	498.0	3.0	1440859	core	558	0.056	10	6	
															498.0	501.0	3.0	1440860	core	207	0.021	5	4	
532.0	568.0	AND	Feld pphy dk blue grey as earlier section. Gradual transition from Dio above. Fract 20 / m containing py / cpy. Diss py 5%, cpy 2%. Occasional born bleb. 1-3 m Dio sections. Minor K spar on fract(<1%).												501.0	504.0	3.0	1440861	core	211	0.021	5	23	
			Sl bornite on fract and clots around 561. A lot of fine dusty cpy.												504.0	507.0	3.0	1440862	core	1250	0.116	19	31	
															507.0	509.4	2.4	1440863	core	1470	0.142	23	54	
568.0	608.1	DIO	Sl pphy and mixed with And. Transitional back and forth. Fract 20-30 / m. Carb / qtz in fract plus sl bornite / cpy. Diss bornite throughout (or possibly anhydrite?). Slight "purple wash" in silicious sections.1-2mm bornite veinlets @ random. Blue / grey And. 586.8 - 587.7 and continuing mixed with Dio. thru sections. K spar starting @ 589.5 as str and small 2-5 cm flood zones.												509.4	509.7	0.3	1440864	core	1760	0.178	13	18	
			Heavy fract 20-50 / m. 5 cm Syen? dykes @ 590.5, 593.3, 598 and then every 2-3 m to 608.												509.7	513.0	3.3	1440865	core	1010	0.101	11	24	
			Mineral decreasing from +/- 595 - no more bornite and +/- 1% cpy, 2% py. Blob cpy in str @ 591												513.0	516.0	3.0	1440866	core	813	0.076	17	25	
			with +/- 5% diss cpy surrounding str for .5 m. Good fg cpy in brown / tan alt And. mixed with Dio @ 603.												516.0	519.0	3.0	1440867	core	451	0.045	9	6	
			Sl epid starting at 600.												519.0	522.0	3.0	1440868	core	404	0.040	5	15	
															522.0	525.0	3.0	1440869	core	317	0.032	5	55	
																		1440870	std	3590	0.359	374	699	
															525.0	528.0	3.0	1440871	core	350	0.035	8	14	
																		1440872	blk	32	0.003	5	2	
															528.0	531.0	3.0	1440873	core	663	0.066	12	6	
															531.0	534.0	3.0	1440874	core	804	0.079	13	10	
																		1440875	dup	2140		31	10	
															534.0	537.0	3.0	1440876	core	2120	0.212	32	17	
															537.0	540.0	3.0	1440877	core	989	0.094	11	24	
															540.0	543.0	3.0	1440878	core	828	0.079	5	25	
															543.0	546.0	3.0	1440879	core	2040	0.192	23	21	
															546.0	549.0	3.0	1440880	core	1110	0.104	8	9	
															549.0	552.0	3.0	1440881	core	562	0.055	5	6	
															552.0	555.0	3.0	1440882	core	375	0.037	6	11	
															555.0	558.0	3.0	1440883	core	488	0.051	8	7	
															558.0	561.0	3.0	1440884	core	511	0.050	5	23	
															561.0	564.0	3.0	1440885	core	3240	0.311	44	13	
															564.0	567.0	3.0	1440886	core	707	0.069	7	16	
															567.0	570.0	3.0	1440887	core	1240	0.120	19	24	
															570.0	573.0	3.0	1440888	core	950	0.088	18	9	
															573.0	576.0	3.0	1440889	core	1560	0.155	21	18	
															576.0	579.0	3.0	1440890	core	1020	0.095	17	16	
															579.0	582.0	3.0	1440891	core	963	0.087	12	20	
															582.0	585.0	3.0	1440892	core	1010	0.102	10	11	
															585.0	588.0	3.0	1440893	core	1680	0.152	20	29	
															588.0	591.0	3.0	1440894	core	1380	0.132	26	26	
																		1440895	std	3580		393	694	

J.W.MURTON & ASSOC.														Azimuth: 240		HOLE PR 13 - 02		Page 6 of 9						
Hole ID:	PR 13-02			Easting:	DIAMOND DRILL LOC										Dip:	collar -50		Start Date:		June 18, 2013				
TEN. #	512854			Northing:	5515885										acid	185m -49		acid	551m -47.50		End Date:		July 16, 2013	
Target:	IP anomaly			Elev:	1290 m										acid	276m -45.75		acid	642m -49		Logged by:		W.MURTON	
				Depth:	821.3m										acid	368m -45.50		acid	734m -50		Core size:		NQ	
															acid	459m -46.75		acid	819m -50					
Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results								
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)	
516.0	532.0	DIO	Fg - mg, grey,unaltered,fract <10 / m, Less K spar alt than above section.												495.0	498.0	3.0	1440859	core	558	0.056	10	6	
															498.0	501.0	3.0	1440860	core	207	0.021	5	4	
532.0	568.0	AND	Feld pphy dk blue grey as earlier section. Gradual transition from Dio above. Fract 20 / m containing py / cpy. Diss py 5%, cpy 2%. Occasional born bleb. 1-3 m Dio sections. Minor K spar on fract(<1%).												501.0	504.0	3.0	1440861	core	211	0.021	5	23	
			Sl bornite on fract and clots around 561. A lot of fine dusty cpy.												504.0	507.0	3.0	1440862	core	1250	0.116	19	31	
															507.0	509.4	2.4	1440863	core	1470	0.142	23	54	
568.0	608.1	DIO	Sl pphy and mixed with And. Transitional back and forth. Fract 20-30 / m. Carb / qtz in fract plus sl bornite / cpy. Diss bornite throughout (or possibly anhydrite?). Slight "purple wash" in silicious sections.1-2mm bornite veinlets @ random. Blue / grey And. 586.8 - 587.7 and continuing mixed with Dio. thru sections. K spar starting @ 589.5 as str and small 2-5 cm flood zones.												509.4	509.7	0.3	1440864	core	1760	0.178	13	18	
			Heavy fract 20-50 / m. 5 cm Syen? dykes @ 590.5, 593.3, 598 and then every 2-3 m to 608.												509.7	513.0	3.3	1440865	core	1010	0.101	11	24	
			Mineral decreasing from +/- 595 - no more bornite and +/- 1% cpy, 2% py. Blob cpy in str @ 591												513.0	516.0	3.0	1440866	core	813	0.076	17	25	
			with +/- 5% diss cpy surrounding str for .5 m. Good fg cpy in brown / tan alt And. mixed with Dio @ 603.												516.0	519.0	3.0	1440867	core	451	0.045	9	6	
			Sl epid starting at 600.												519.0	522.0	3.0	1440868	core	404	0.040	5	15	
															522.0	525.0	3.0	1440869	core	317	0.032	5	55	
																		1440870	std	3590	0.359	374	699	
															525.0	528.0	3.0	1440871	core	350	0.035	8	14	
																		1440872	blk	32	0.003	5	2	
															528.0	531.0	3.0	1440873	core	663	0.066	12	6	
															531.0	534.0	3.0	1440874	core	804	0.079	13	10	
																		1440875	dup	2140		31	10	
															534.0	537.0	3.0	1440876	core	2120	0.212	32	17	
															537.0	540.0	3.0	1440877	core	989	0.094	11	24	
															540.0	543.0	3.0	1440878	core	828	0.079	5	25	
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															546.0	549.0	3.0	1440880	core	1110	0.104	8	9	
															549.0	552.0	3.0	1440881	core	562	0.055	5	6	
															552.0	555.0	3.0	1440882	core	375	0.037	6	11	
															555.0	558.0	3.0	1440883	core	488	0.051	8	7	
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															570.0	573.0	3.0	1440888	core	950	0.088	18	9	
															573.0	576.0	3.0	1440889	core	1560	0.155	21	18	
															576.0	579.0	3.0	1440890	core	1020	0.095	17	16	
															579.0	582.0	3.0	1440891	core	963	0.087	12	20	
															582.0	585.0	3.0	1440892	core	1010	0.102	10	11	
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J.W.MURTON & ASSOC.														Azimuth: 240		HOLE PR 13 - 02		Page 6 of 9						
Hole ID:	PR 13-02			Easting:	DIAMOND DRILL LOC										Dip:	collar -50		Start Date:		June 18, 2013				
TEN. #	512854			Northing:	5515885										acid	185m -49		acid	551m -47.50		End Date:		July 16, 2013	
Target:	IP anomaly			Elev:	1290 m										acid	276m -45.75		acid	642m -49		Logged by:		W.MURTON	
				Depth:	821.3m										acid	368m -45.50		acid	734m -50		Core size:		NQ	
															acid	459m -46.75		acid	819m -50					
Primary Interval				Alteration Type / Intensity				Mineralization				Assay Interval				Analytical Results								
From (m)	To (m)	Lith Code	Description	Biot	Ep/Chl	Kspar	Sil	Calc	Py %	Py %	Cp %	Cp %	Mg %	Mg %	From (m)	To (m)	Int. (m)	Sample ID	Type	Cu (ppm)	Cu (%)	Au (ppb)	Mo (ppm)	
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532.0	568.0	AND	Feld pphy dk blue grey as earlier section. Gradual transition from Dio above. Fract 20 / m containing py / cpy. Diss py 5%, cpy 2%. Occasional born bleb. 1-3 m Dio sections. Minor K spar on fract(<1%).												501.0	504.0	3.0	1440861	core	211	0.021	5	23	
			Sl bornite on fract and clots around 561. A lot of fine dusty cpy.												504.0	507.0	3.0	1440862	core	1250	0.116	19	31	
															507.0	509.4	2.4	1440863	core	1470	0.142	23	54	
568.0	608.1	DIO	Sl pphy and mixed with And. Transitional back and forth. Fract 20-30 / m. Carb / qtz in fract plus sl bornite / cpy. Diss bornite throughout (or possibly anhydrite?). Slight "purple wash" in silicious sections.1-2mm bornite veinlets @ random. Blue / grey And. 586.8 - 587.7 and continuing mixed with Dio. thru sections. K spar starting @ 589.5 as str and small 2-5 cm flood zones.												509.4	509.7	0.3	1440864	core	1760	0.178	13	18	
			Heavy fract 20-50 / m. 5 cm Syen? dykes @ 590.5, 593.3, 598 and then every 2-3 m to 608.												509.7	513.0	3.3	1440865	core	1010	0.101	11	24	
			Mineral decreasing from +/- 595 - no more bornite and +/- 1% cpy, 2% py. Blob cpy in str @ 591												513.0	516.0	3.0	1440866	core	813	0.076	17	25	
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															531.0	534.0	3.0	1440874	core	804	0.079	13	10	
																		1440875	dup	2140		31	10	
															534.0	537.0	3.0	1440876	core	2120	0.212	32	17	
															537.0	540.0	3.0	1440877	core	989	0.094	11	24	
															540.0	543.0	3.0	1440878	core	828	0.079	5	25	
															543.0	546.0	3.0	1440879	core	2040	0.192	23	21	
															546.0	549.0	3.0	1440880	core	1110	0.104	8	9	
															549.0	552.0	3.0	1440881	core	562	0.055	5	6	
															552.0	555.0	3.0	1440882	core	375	0.037	6	11	
															555.0	558.0	3.0	1440883	core	488	0.051	8	7	
															558.0	561.0	3.0	1440884	core	511	0.050	5	23	
															561.0	564.0	3.0	1440885	core	3240	0.311	44	13	
															564.0	567.0	3.0	1440886	core	707	0.069	7	16	
															567.0	570.0	3.0	1440887	core	1240	0.120	19	24	
															570.0	573.0	3.0	1440888	core	950	0.088	18	9	
															573.0	576.0	3.0	1440889	core	1560	0.155	21	18	
															576.0	579.0	3.0	1440890	core	1020	0.095	17	16	
															579.0	582.0	3.0	1440891	core	963	0.087	12	20	
															582.0	585.0	3.0	1440892	core	1010	0.102	10	11	
															585.0	588.0	3.0	1440893	core	1680	0.152	20	29	
															588.0	591.0	3.0	1440894	core	1380	0.132	26	26	
																		1440895	std	3580		393	694	

APPENDIX 2

Assay Data



Date Submitted: 02-Jul-13
Invoice No.: A13-07415
Invoice Date: 12-Jul-13
Your Reference: MAN-PRIME

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

165 Core samples and 6 Pulp samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-50-Kamloops Au - Fire Assay AA (QOP AA-Au)
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A13-07415**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	10	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440506	17	0.4	< 0.5	916	481	1	14	< 2	42	2.83	11	11	152	< 0.5	< 2	2.43	16	26	5.90	< 10	< 1	0.22	< 10	1.92
1440507	9	< 0.2	< 0.5	464	487	< 1	19	< 2	36	2.65	5	< 10	237	< 0.5	< 2	2.00	16	25	6.33	< 10	< 1	0.22	< 10	2.31
1440508	14	< 0.2	< 0.5	501	650	2	20	< 2	57	3.46	< 2	< 10	353	< 0.5	< 2	2.96	19	27	6.49	< 10	3	0.37	< 10	3.00
1440509	13	< 0.2	< 0.5	581	648	< 1	19	< 2	49	3.11	2	< 10	234	< 0.5	< 2	3.38	20	23	6.06	< 10	2	0.33	< 10	2.63
1440510	7	0.2	< 0.5	317	871	1	20	< 2	49	3.46	< 2	< 10	44	< 0.5	< 2	5.83	23	20	5.60	< 10	< 1	0.30	< 10	2.60
1440511	12	< 0.2	< 0.5	416	807	< 1	21	< 2	48	3.86	3	< 10	40	< 0.5	< 2	3.80	21	23	6.22	< 10	3	0.34	< 10	3.08
1440512	12	0.4	< 0.5	367	823	2	19	< 2	53	3.57	< 2	< 10	46	< 0.5	< 2	5.45	21	20	5.81	< 10	< 1	0.36	< 10	2.70
1440513	28	0.5	< 0.5	541	937	< 1	18	2	55	2.80	5	< 10	44	< 0.5	< 2	6.66	20	16	4.76	< 10	< 1	0.40	< 10	2.04
1440514	94	1.3	0.9	1170	1130	1	16	< 2	62	2.60	6	< 10	45	< 0.5	< 2	6.58	17	11	4.77	< 10	< 1	0.44	< 10	1.81
1440515	41	0.8	0.8	537	1120	< 1	19	6	61	2.43	6	14	42	< 0.5	< 2	7.10	18	11	5.14	< 10	1	0.53	< 10	1.52
1440516	30	0.6	< 0.5	1060	1060	1	13	3	67	2.90	5	11	34	< 0.5	< 2	6.66	18	7	5.01	< 10	< 1	0.41	< 10	1.65
1440517	12	0.5	1.3	451	923	2	10	8	92	2.48	17	11	23	< 0.5	< 2	5.32	19	5	5.25	< 10	< 1	0.50	< 10	1.16
1440518	19	0.5	< 0.5	748	1110	< 1	9	10	94	3.04	< 2	< 10	37	< 0.5	< 2	5.81	15	6	4.98	< 10	< 1	0.43	< 10	1.69
1440519	9	0.3	< 0.5	928	1190	< 1	8	< 2	70	3.17	3	< 10	80	< 0.5	< 2	4.77	14	9	5.32	< 10	1	0.40	< 10	1.97
1440520	7	< 0.2	0.7	537	924	< 1	9	< 2	63	3.11	4	< 10	472	< 0.5	< 2	4.41	13	8	5.10	< 10	1	0.51	< 10	1.70
1440521	7	0.3	< 0.5	407	957	< 1	6	< 2	79	3.51	9	< 10	35	< 0.5	< 2	5.16	18	6	6.19	< 10	3	0.39	< 10	1.61
1440522	6	< 0.2	< 0.5	508	1060	< 1	8	2	74	3.48	< 2	< 10	152	< 0.5	< 2	5.04	21	7	5.15	< 10	< 1	0.51	< 10	1.79
1440523	7	< 0.2	< 0.5	516	965	1	9	< 2	72	2.91	4	< 10	99	< 0.5	< 2	3.88	18	9	5.49	< 10	< 1	0.63	< 10	1.94
1440524	8	0.3	< 0.5	344	742	< 1	9	4	64	2.85	< 2	< 10	110	< 0.5	< 2	4.20	13	8	5.55	< 10	< 1	0.43	< 10	1.80
1440525	13	0.4	< 0.5	523	816	2	10	5	68	3.01	< 2	< 10	217	< 0.5	< 2	4.35	12	8	4.24	< 10	< 1	0.47	< 10	1.98
1440526	< 5	< 0.2	< 0.5	261	627	< 1	9	< 2	64	2.39	< 2	< 10	347	< 0.5	< 2	1.82	11	9	4.92	< 10	< 1	0.24	< 10	2.17
1440527	6	0.3	< 0.5	481	657	< 1	9	3	64	2.40	5	< 10	133	< 0.5	< 2	2.20	15	9	5.47	< 10	< 1	0.25	< 10	2.26
1440528	8	0.3	0.7	1180	726	< 1	11	< 2	70	2.60	4	< 10	70	< 0.5	< 2	1.97	19	10	5.52	< 10	< 1	0.23	< 10	2.45
1440529	9	0.3	< 0.5	1240	722	< 1	10	3	71	2.60	5	< 10	69	< 0.5	< 2	1.97	18	10	5.58	< 10	< 1	0.23	< 10	2.45
1440530	354	24.8	< 0.5	3630	406	761	16	44	46	0.43	33	< 10	107	< 0.5	< 2	1.35	4	23	1.81	< 10	< 1	0.16	< 10	0.11
1440531	5	< 0.2	< 0.5	430	801	4	10	< 2	67	2.48	< 2	< 10	120	< 0.5	< 2	1.86	16	10	6.27	< 10	< 1	0.24	< 10	2.27
1440532	< 5	< 0.2	< 0.5	348	652	2	9	< 2	63	2.43	2	< 10	84	< 0.5	< 2	1.58	14	10	5.59	< 10	< 1	0.17	< 10	2.23
1440533	7	< 0.2	< 0.5	528	928	2	11	< 2	69	2.37	< 2	< 10	242	< 0.5	2	2.40	16	11	5.76	< 10	< 1	0.23	< 10	2.26
1440534	< 5	< 0.2	< 0.5	112	900	2	11	< 2	66	2.55	< 2	< 10	245	< 0.5	< 2	1.85	14	10	5.71	< 10	< 1	0.34	< 10	2.27
1440535	< 5	< 0.2	< 0.5	29	633	< 1	15	5	65	1.61	2	< 10	70	< 0.5	3	2.09	15	19	3.51	< 10	< 1	0.18	15	0.90
1440536	6	< 0.2	0.7	325	815	1	8	< 2	61	2.40	2	< 10	378	< 0.5	< 2	2.42	16	11	5.28	< 10	< 1	0.22	< 10	2.31
1440537	< 5	< 0.2	< 0.5	375	689	1	9	2	58	2.52	8	< 10	384	< 0.5	< 2	3.54	13	8	4.59	< 10	< 1	0.36	< 10	1.92
1440538	16	0.4	< 0.5	381	1090	< 1	14	9	116	3.24	7	< 10	68	< 0.5	< 2	4.89	16	9	4.66	< 10	< 1	0.48	< 10	1.72
1440539	62	0.9	< 0.5	899	1290	1	19	6	107	3.04	11	< 10	56	< 0.5	< 2	6.43	21	18	5.04	< 10	< 1	0.36	< 10	1.76
1440540	41	0.7	< 0.5	997	1500	1	21	6	126	3.30	14	< 10	55	< 0.5	< 2	7.43	19	21	5.34	< 10	< 1	0.31	< 10	1.92
1440541	44	1.0	0.7	956	1300	3	25	4	110	2.64	20	11	62	< 0.5	< 2	6.99	22	10	5.06	< 10	1	0.33	< 10	1.28
1440542	14	0.3	< 0.5	266	1470	< 1	21	5	103	2.73	11	< 10	44	< 0.5	< 2	6.60	25	17	5.44	< 10	2	0.32	< 10	1.93
1440543	8	< 0.2	< 0.5	73	1340	< 1	23	5	96	3.46	12	< 10	41	< 0.5	5	5.12	24	30	5.08	< 10	< 1	0.30	< 10	2.55
1440544	10	< 0.2	0.6	72	1560	< 1	27	< 2	158	3.63	< 2	< 10	105	< 0.5	3	5.07	20	36	5.24	< 10	< 1	0.27	< 10	2.71
1440545	23	< 0.2	< 0.5	118	1650	< 1	25	< 2	156	3.46	7	< 10	73	< 0.5	< 2	4.97	24	33	5.37	< 10	< 1	0.25	< 10	2.60
1440546	8	< 0.2	< 0.5	97	1420	< 1	25	3	110	3.05	6	< 10	91	< 0.5	< 2	4.95	18	31	4.95	< 10	< 1	0.32	< 10	2.32
1440547	7	< 0.2	< 0.5	89	1470	< 1	24	3	103	2.92	6	< 10	201	< 0.5	< 2	4.15	17	35	4.56	< 10	< 1	0.18	< 10	2.35
1440548	13	< 0.2	< 0.5	176	1570	< 1	25	< 2	97	3.21	< 2	< 10	83	< 0.5	< 2	4.64	21	38	5.34	< 10	< 1	0.28	< 10	2.70
1440549	39	0.4	< 0.5	239	1420	< 1	20	< 2	89	2.81	6	< 10	43	< 0.5	< 2	5.99	20	21	5.15	< 10	< 1	0.25	< 10	2.13
1440550	12	< 0.2	< 0.5	233	1400	< 1	23	< 2	100	3.09	< 2	< 10	179	< 0.5	< 2	4.87	21	30	5.25	< 10	< 1	0.31	< 10	2.56
1440551	13	< 0.2	< 0.5	150	1320	< 1	24	3	89	3.05	9	< 10	66	< 0.5	< 2	3.53	20	34	5.27	< 10	< 1	0.06	< 10	2.87
1440552	9	< 0.2	0.7	165	1400	< 1	22	< 2	101	3.25	7	< 10	108	< 0.5	< 2	3.54	19	34	5.35	< 10	< 1	0.09	< 10	2.73
1440553	< 5	< 0.2	< 0.5	140	1330	< 1	23	< 2	102	3.80	9	< 10	348	< 0.5	< 2	4.46	18	37	5.44	< 10	< 1	0.05	< 10	2.83
1440554	5	< 0.2	< 0.5	118	1420	< 1	28	3	123	3.35	11	< 10	178	< 0.5	< 2	3.14	20	41	5.15	< 10	< 1	0.11	< 10	2.77
1440555	5	< 0.2	< 0.5	117	1410	< 1	23	2	122	3.27	6	< 10	176	< 0.5	< 2	3.14	20	41	5.06	< 10	< 1	0.09	< 10	2.76
1440556	341	24.6	< 0.5	3720	406	753	16	44	46	0.43	33	< 10	144	< 0.5	< 2	1.34	3	23	1.83	< 10	1	0.16	< 10	0.11
1440557	11	< 0.2	0.5	84	1410	2	28	< 2	130	3.35	6	< 10	112	< 0.5	< 2	3.60	22	45	5.12	< 10	< 1	0.09	< 10	2.78

Activation Laboratories Ltd. Report: A13-07415

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440558	7	< 0.2	1.0	97	1250	< 1	25	< 2	94	3.08	2	< 10	157	< 0.5	< 2	3.24	19	44	4.79	< 10	< 1	0.10	< 10	2.71
1440559	25	< 0.2	< 0.5	103	1380	< 1	25	3	108	2.90	4	< 10	96	< 0.5	< 2	5.77	16	32	4.65	< 10	< 1	0.33	< 10	2.29
1440560	7	< 0.2	< 0.5	28	658	< 1	16	5	65	1.86	3	< 10	77	< 0.5	< 2	2.37	15	18	3.79	< 10	< 1	0.19	14	1.00
1440561	11	< 0.2	< 0.5	112	1160	< 1	27	< 2	70	3.47	< 2	< 10	69	< 0.5	< 2	4.06	20	41	5.07	< 10	< 1	0.21	< 10	2.78
1440562	8	< 0.2	< 0.5	104	1100	< 1	27	< 2	79	3.37	4	< 10	89	< 0.5	< 2	3.38	20	43	5.08	< 10	< 1	0.11	< 10	2.92
1440563	25	< 0.2	< 0.5	110	797	< 1	25	3	74	3.42	9	< 10	36	< 0.5	< 2	3.56	23	37	5.14	< 10	< 1	0.18	< 10	2.77
1440564	24	0.2	< 0.5	176	807	< 1	27	4	79	3.47	6	< 10	36	< 0.5	< 2	3.84	21	37	5.07	< 10	< 1	0.24	< 10	2.65
1440565	7	< 0.2	< 0.5	138	862	< 1	25	< 2	68	3.26	< 2	< 10	90	< 0.5	< 2	2.88	19	41	4.71	< 10	< 1	0.12	< 10	2.77
1440566	8	< 0.2	< 0.5	84	961	< 1	23	< 2	82	2.78	8	< 10	99	< 0.5	< 2	3.05	20	39	4.58	< 10	< 1	0.15	< 10	2.42
1440567	8	< 0.2	< 0.5	96	838	< 1	25	< 2	69	2.92	7	< 10	118	< 0.5	< 2	2.64	18	39	4.68	< 10	< 1	0.11	< 10	2.65
1440568	15	< 0.2	0.5	82	779	< 1	22	< 2	72	2.91	3	53	93	< 0.5	< 2	3.26	19	35	4.27	< 10	< 1	0.12	< 10	2.34
1440569	17	< 0.2	< 0.5	72	815	< 1	24	6	67	2.60	15	< 10	97	< 0.5	< 2	2.93	22	36	4.24	< 10	< 1	0.15	< 10	2.12
1440570	8	< 0.2	< 0.5	110	871	< 1	19	4	63	2.77	11	< 10	72	< 0.5	< 2	2.81	16	36	4.66	< 10	< 1	0.13	< 10	2.42
1440571	12	< 0.2	< 0.5	127	794	< 1	20	< 2	64	2.81	5	< 10	76	< 0.5	< 2	2.16	19	36	4.88	< 10	< 1	0.13	< 10	2.57
1440572	11	< 0.2	< 0.5	346	962	< 1	20	7	77	2.75	7	< 10	81	< 0.5	< 2	2.36	18	33	5.37	< 10	< 1	0.11	< 10	2.66
1440573	27	0.4	1.1	1340	1050	1	25	3	88	2.69	10	< 10	79	< 0.5	< 2	3.17	20	42	6.06	< 10	< 1	0.13	< 10	2.51
1440574	25	0.6	< 0.5	1610	1040	1	26	< 2	76	2.42	3	< 10	106	< 0.5	< 2	3.07	21	37	6.24	< 10	< 1	0.14	< 10	2.06
1440575	16	0.5	1.4	1150	1180	< 1	19	< 2	90	2.18	9	< 10	113	< 0.5	< 2	6.10	19	31	5.94	< 10	< 1	0.11	< 10	1.65
1440576	27	0.5	< 0.5	1300	1150	< 1	24	< 2	86	2.25	6	< 10	75	< 0.5	< 2	3.57	19	39	5.82	< 10	< 1	0.14	< 10	2.11
1440577	20	0.5	0.8	1010	1110	< 1	26	5	150	2.66	8	< 10	69	< 0.5	< 2	3.12	20	43	5.63	< 10	< 1	0.15	< 10	2.19
1440578	30	0.4	0.6	1130	1130	< 1	25	< 2	102	2.61	< 2	< 10	82	< 0.5	< 2	3.07	20	42	5.67	< 10	< 1	0.19	< 10	2.11
1440579	64	0.8	< 0.5	1610	1140	2	22	< 2	75	2.78	6	11	41	< 0.5	< 2	6.38	19	31	5.56	< 10	< 1	0.34	< 10	1.86
1440580	395	24.3	< 0.5	3690	413	766	17	45	46	0.44	34	< 10	127	< 0.5	< 2	1.37	4	23	1.86	< 10	1	0.16	< 10	0.11
1440581	69	0.6	1.0	654	1100	3	25	< 2	93	2.75	2	< 10	54	< 0.5	< 2	4.27	24	31	6.29	< 10	< 1	0.24	< 10	2.37
1440582	30	< 0.2	0.6	319	1150	< 1	23	< 2	71	2.90	7	< 10	83	< 0.5	< 2	4.04	22	30	5.94	< 10	< 1	0.19	< 10	2.38
1440583	13	< 0.2	< 0.5	254	1240	< 1	22	< 2	86	2.86	< 2	< 10	78	< 0.5	< 2	3.75	19	28	5.92	< 10	< 1	0.23	< 10	2.53
1440584	47	0.3	1.3	282	1410	< 1	24	< 2	162	3.33	6	< 10	27	< 0.5	< 2	5.05	23	29	6.23	< 10	< 1	0.24	< 10	2.82
1440585	37	< 0.2	< 0.5	130	842	< 1	23	< 2	61	3.04	3	< 10	41	< 0.5	< 2	4.59	22	32	5.48	< 10	< 1	0.29	< 10	2.73
1440586	18	< 0.2	< 0.5	64	844	< 1	26	2	56	3.22	3	< 10	38	< 0.5	< 2	5.76	19	33	5.40	< 10	< 1	0.26	< 10	2.38
1440587	19	< 0.2	0.6	67	808	< 1	26	2	69	3.08	< 2	< 10	46	< 0.5	< 2	4.24	19	37	5.12	< 10	< 1	0.23	< 10	2.68
1440588	17	< 0.2	< 0.5	248	868	< 1	28	3	62	3.16	< 2	< 10	32	< 0.5	< 2	3.05	21	42	5.31	< 10	< 1	0.22	< 10	2.99
1440589	17	0.2	1.0	141	720	< 1	28	3	71	2.90	< 2	< 10	37	< 0.5	< 2	4.45	21	36	5.08	< 10	2	0.31	< 10	2.84
1440590	28	< 0.2	< 0.5	152	578	< 1	25	< 2	51	2.42	4	< 10	35	< 0.5	< 2	5.09	21	31	4.49	< 10	< 1	0.25	< 10	2.56
1440591	27	< 0.2	< 0.5	110	915	< 1	29	< 2	43	3.10	4	< 10	26	< 0.5	< 2	4.92	26	40	5.32	< 10	< 1	0.29	< 10	3.07
1440592	31	< 0.2	0.5	200	964	< 1	29	< 2	58	3.50	7	< 10	27	< 0.5	< 2	4.06	21	42	5.77	< 10	< 1	0.21	< 10	2.94
1440593	19	< 0.2	< 0.5	113	863	< 1	28	< 2	53	3.67	3	< 10	43	< 0.5	< 2	3.49	23	43	5.63	< 10	< 1	0.22	< 10	2.95
1440594	39	< 0.2	< 0.5	175	840	1	25	< 2	44	2.53	3	< 10	22	< 0.5	< 2	5.11	33	24	4.98	< 10	< 1	0.34	< 10	2.35
1440595	89	0.4	< 0.5	616	970	< 1	24	4	61	2.89	5	< 10	52	< 0.5	< 2	2.64	17	29	6.00	< 10	< 1	0.22	< 10	2.63
1440596	25	0.3	< 0.5	553	891	< 1	21	< 2	50	3.16	8	< 10	43	< 0.5	< 2	3.09	20	26	5.39	< 10	< 1	0.16	< 10	2.46
1440597	80	0.5	< 0.5	1170	809	< 1	23	< 2	46	3.26	10	< 10	38	< 0.5	< 2	3.50	23	26	5.55	< 10	< 1	0.12	< 10	2.57
1440598	50	0.4	< 0.5	588	837	< 1	19	< 2	50	3.13	5	< 10	36	< 0.5	< 2	3.36	17	24	5.08	< 10	< 1	0.15	< 10	2.28
1440599	42	0.4	< 0.5	632	1020	< 1	24	< 2	68	3.08	6	< 10	58	< 0.5	< 2	3.17	23	28	5.97	< 10	< 1	0.17	< 10	2.51
1440600	25	0.3	< 0.5	534	931	< 1	23	< 2	59	3.02	4	< 10	84	< 0.5	< 2	2.64	21	28	5.88	< 10	1	0.20	< 10	2.69
1440601	61	0.3	< 0.5	562	947	< 1	22	5	68	3.47	12	< 10	44	< 0.5	< 2	3.95	24	31	6.84	< 10	2	0.25	< 10	3.02
1440602	28	< 0.2	< 0.5	346	985	< 1	25	< 2	57	3.45	7	< 10	87	< 0.5	< 2	3.26	19	29	6.84	< 10	2	0.24	< 10	3.08
1440603	39	0.3	0.6	423	1020	< 1	22	< 2	66	3.24	5	< 10	39	< 0.5	< 2	4.51	21	27	6.43	< 10	< 1	0.23	< 10	2.72
1440604	28	0.3	0.5	393	970	< 1	22	< 2	59	3.68	4	< 10	81	< 0.5	< 2	4.36	24	29	6.35	< 10	2	0.25	< 10	2.70
1440605	24	< 0.2	0.6	210	870	< 1	24	< 2	52	3.46	6	< 10	42	< 0.5	< 2	3.15	17	28	5.72	< 10	< 1	0.15	< 10	2.44
1440606	25	< 0.2	< 0.5	180	808	< 1	19	< 2	50	3.31	10	< 10	44	< 0.5	< 2	3.31	17	26	5.33	< 10	< 1	0.17	< 10	2.27
1440607	362	24.2	< 0.5	3500	394	727	15	46	45	0.41	33	< 10	112	< 0.5	< 2	1.30	3	22	1.77	< 10	< 1	0.16	< 10	0.10
1440608	60	< 0.2	< 0.5	139	451	3	9	< 2	37	1.60	4	< 10	17	< 0.5	< 2	1.30	10	12	2.31	< 10	< 1	0.07	< 10	1.18
1440609	< 5	< 0.2	< 0.5	37	561	< 1	18	5	65	2.15														

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	10	0.01	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440610	67	0.2	< 0.5	322	1280	< 1	25	< 2	81	3.82	12	< 10	41	< 0.5	< 2	2.45	24	30	6.70	< 10	< 1	0.21	< 10	3.51
1440611	41	0.4	0.5	326	1190	< 1	27	< 2	76	3.89	5	< 10	82	< 0.5	< 2	2.16	21	33	6.55	< 10	2	0.27	< 10	3.57
1440612	62	0.3	< 0.5	468	983	< 1	26	< 2	63	3.31	4	< 10	53	< 0.5	< 2	2.27	25	28	6.67	< 10	< 1	0.24	< 10	3.24
1440613	66	0.4	< 0.5	734	1000	< 1	22	< 2	68	3.40	8	< 10	57	< 0.5	< 2	3.33	20	33	5.87	< 10	< 1	0.20	< 10	2.58
1440614	40	0.9	0.6	1340	1040	< 1	24	< 2	68	3.13	7	< 10	52	< 0.5	< 2	3.47	23	37	6.38	< 10	2	0.15	< 10	2.62
1440615	97	0.9	0.6	654	1310	< 1	19	7	77	2.69	31	< 10	53	< 0.5	< 2	9.12	17	23	5.32	< 10	< 1	0.26	< 10	1.90
1440616	38	0.5	0.5	709	955	< 1	23	< 2	71	3.41	7	< 10	51	< 0.5	< 2	2.44	20	31	6.06	< 10	< 1	0.17	< 10	2.64
1440617	28	0.5	< 0.5	944	935	< 1	24	< 2	61	3.15	3	< 10	58	< 0.5	< 2	2.85	18	34	5.96	< 10	< 1	0.18	< 10	2.47
1440618	46	0.2	< 0.5	671	984	< 1	25	< 2	68	3.35	15	< 10	51	< 0.5	< 2	4.35	26	31	6.58	< 10	< 1	0.22	< 10	3.02
1440619	23	0.2	< 0.5	271	988	< 1	25	< 2	64	3.32	4	< 10	40	< 0.5	< 2	3.73	23	40	6.32	< 10	< 1	0.18	< 10	2.95
1440620	47	0.2	1.0	367	963	< 1	25	< 2	54	3.51	6	< 10	48	< 0.5	< 2	4.05	22	27	6.75	< 10	< 1	0.18	< 10	3.15
1440621	118	0.4	0.5	407	698	< 1	23	4	43	2.92	11	< 10	38	< 0.5	< 2	5.55	20	22	5.99	< 10	< 1	0.37	< 10	2.65
1440622	55	0.3	0.5	376	847	< 1	25	< 2	44	2.99	5	< 10	50	< 0.5	< 2	3.76	17	30	6.19	< 10	< 1	0.18	< 10	2.86
1440623	50	< 0.2	< 0.5	358	821	2	22	< 2	50	3.26	9	< 10	53	< 0.5	< 2	5.52	23	27	5.57	< 10	< 1	0.24	< 10	2.64
1440624	28	0.2	< 0.5	420	931	< 1	26	< 2	53	3.27	3	< 10	76	< 0.5	< 2	3.02	20	36	6.54	< 10	< 1	0.23	< 10	3.17
1440625	89	0.4	< 0.5	594	1040	1	24	4	55	2.92	4	< 10	55	< 0.5	< 2	4.72	20	31	5.58	< 10	< 1	0.20	< 10	2.74
1440626	30	0.4	< 0.5	591	977	< 1	20	< 2	48	3.06	6	< 10	75	< 0.5	< 2	3.66	17	32	5.30	< 10	< 1	0.18	< 10	2.24
1440627	59	0.8	0.6	2330	1060	< 1	27	3	56	3.13	6	< 10	80	< 0.5	< 2	3.78	21	36	6.31	< 10	< 1	0.18	< 10	2.63
1440628	91	1.0	< 0.5	2350	820	< 1	24	< 2	49	2.91	3	< 10	31	< 0.5	< 2	4.05	21	33	6.15	< 10	2	0.25	< 10	2.82
1440629	741	2.2	< 0.5	2910	959	1	24	3	55	2.91	15	< 10	21	< 0.5	< 2	4.88	28	33	6.97	< 10	1	0.22	< 10	2.41
1440630	62	1.2	0.5	1750	1050	< 1	23	5	72	2.87	10	< 10	50	< 0.5	< 2	5.78	20	32	5.91	< 10	< 1	0.22	< 10	2.29
1440631	72	1.9	< 0.5	2330	990	2	24	3	79	2.53	10	< 10	44	< 0.5	< 2	4.63	21	37	6.32	< 10	< 1	0.21	< 10	2.29
1440632	358	24.9	< 0.5	3670	410	761	15	45	46	0.43	31	< 10	96	< 0.5	< 2	1.35	4	24	1.85	< 10	1	0.16	< 10	0.11
1440633	75	1.2	< 0.5	2520	963	3	24	3	68	2.28	4	< 10	25	< 0.5	< 2	3.10	20	33	5.45	< 10	< 1	0.13	< 10	2.29
1440634	101	1.2	0.7	2890	971	2	23	< 2	58	2.35	8	< 10	42	< 0.5	< 2	3.76	21	32	5.77	< 10	< 1	0.13	< 10	2.29
1440635	< 5	< 0.2	< 0.5	53	511	< 1	15	5	62	1.90	< 2	< 10	55	< 0.5	< 2	1.40	15	18	3.51	< 10	< 1	0.08	13	1.10
1440636	89	1.3	< 0.5	2840	928	2	22	4	62	2.35	9	< 10	45	< 0.5	< 2	3.52	20	34	5.63	< 10	< 1	0.12	< 10	2.23
1440637	47	0.8	0.7	1990	1080	1	22	< 2	69	2.68	5	< 10	55	< 0.5	< 2	4.35	19	30	5.74	< 10	< 1	0.15	< 10	2.17
1440638	10	< 0.2	0.5	338	1020	< 1	10	7	80	2.83	5	< 10	115	< 0.5	< 2	4.64	19	5	6.52	< 10	< 1	0.17	< 10	2.05
1440639	79	1.1	0.7	2710	843	3	24	4	71	2.44	7	< 10	43	< 0.5	< 2	3.86	20	35	5.15	< 10	< 1	0.21	< 10	1.97
1440640	95	1.0	< 0.5	2070	876	3	20	3	60	2.23	3	< 10	27	< 0.5	< 2	5.21	19	28	5.17	< 10	< 1	0.16	< 10	1.69
1440641	172	1.1	< 0.5	1980	1050	2	22	< 2	67	2.40	6	< 10	39	< 0.5	< 2	4.99	20	30	5.57	< 10	< 1	0.14	< 10	2.21
1440642	78	1.3	< 0.5	2620	1010	< 1	24	5	55	2.42	9	< 10	33	< 0.5	< 2	4.11	19	34	5.48	< 10	3	0.19	< 10	2.24
1440643	52	1.1	0.6	1830	915	< 1	23	< 2	66	2.41	< 2	< 10	60	< 0.5	< 2	3.30	17	39	5.53	< 10	< 1	0.17	< 10	2.33
1440644	42	0.9	< 0.5	1290	950	< 1	21	3	64	2.07	6	< 10	50	< 0.5	< 2	3.66	15	35	5.38	< 10	< 1	0.13	< 10	1.96
1440645	68	2.0	0.6	2390	842	1	24	3	69	2.14	4	< 10	50	< 0.5	< 2	3.98	20	44	5.71	< 10	< 1	0.16	< 10	1.99
1440646	75	4.0	0.7	1830	978	< 1	23	8	68	1.99	30	< 10	39	< 0.5	< 2	5.22	19	33	5.37	< 10	< 1	0.18	< 10	1.65
1440647	126	2.8	1.9	2530	942	1	23	6	231	2.17	46	< 10	25	< 0.5	< 2	4.72	18	31	5.87	< 10	2	0.23	< 10	1.81
1440648	127	2.7	2.6	2440	938	2	22	12	225	2.11	43	< 10	28	< 0.5	< 2	4.73	18	29	5.60	< 10	< 1	0.20	< 10	1.75
1440649	69	1.4	< 0.5	2280	825	2	21	< 2	78	2.37	7	< 10	47	< 0.5	< 2	3.06	17	32	5.14	< 10	< 1	0.17	< 10	2.32
1440650	89	0.9	0.5	2610	625	1	22	4	45	2.28	4	< 10	51	< 0.5	< 2	3.30	16	33	5.18	< 10	< 1	0.14	< 10	2.17
1440651	54	0.8	< 0.5	1770	694	2	23	< 2	55	2.37	6	< 10	54	< 0.5	< 2	3.55	16	36	5.73	< 10	< 1	0.15	< 10	2.28
1440652	58	0.7	0.7	2380	674	3	24	< 2	49	2.44	8	< 10	44	< 0.5	< 2	3.43	21	35	5.34	< 10	< 1	0.13	< 10	2.20
1440653	104	1.2	< 0.5	3430	584	3	23	5	40	2.45	7	< 10	43	< 0.5	< 2	4.92	22	34	5.00	< 10	< 1	0.15	< 10	2.15
1440654	47	0.9	< 0.5	2330	711	< 1	24	7	42	2.58	7	< 10	42	< 0.5	< 2	3.52	18	37	5.54	< 10	< 1	0.14	< 10	2.44
1440655	78	1.3	< 0.5	3610	790	< 1	25	4	45	2.69	5	< 10	33	< 0.5	< 2	4.30	20	36	5.91	< 10	< 1	0.12	< 10	2.45
1440656	44	0.8	< 0.5	2440	800	< 1	26	< 2	49	2.73	4	< 10	34	< 0.5	< 2	3.32	17	37	5.43	< 10	< 1	0.13	< 10	2.74
1440657	42	0.7	< 0.5	2500	718	2	22	< 2	41	2.54	3	< 10	54	< 0.5	< 2	4.18	19	33	5.30	< 10	< 1	0.14	< 10	2.55
1440658	376	24.6	< 0.5	3570	400	722	15	47	45	0.42	31	< 10	90	< 0.5	< 2	1.32	3	22	1.80	< 10	2	0.15	< 10	0.11
1440659	53	1.0	< 0.5	2400	644	4	20	4	42	2.54	5	< 10	52	< 0.5	< 2	3.43	14	26	5.78	< 10	< 1	0.23	< 10	2.42
1440660	70	1.4	< 0.5	3150	722	< 1	23	5	48	2.46	12	< 10	54	< 0.5	< 2	4.25	18	26	5.92	< 10	< 1	0.20	< 10	2.37
1440661	< 5	< 0.2	< 0.5	42	524	< 1	17	5	66	2.06	3	< 10	57	< 0.5	< 2	1.44	16	20	3.83	< 10	< 1	0.08	14	1.23

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440662	84	0.9	0.8	2780	975	2	24	11	76	2.68	11	<10	31	<0.5	<2	4.68	21	32	5.73	<10	<1	0.18	<10	2.68
1440663	36	0.6	<0.5	1980	967	1	24	4	52	2.58	<2	<10	51	<0.5	<2	3.93	22	36	5.41	<10	<1	0.10	<10	2.57
1440664	43	0.7	<0.5	2220	990	2	25	<2	49	2.68	4	<10	43	<0.5	<2	6.10	19	35	5.46	<10	<1	0.14	<10	2.42
1440665	61	0.8	0.6	1300	919	1	24	2	48	2.70	8	<10	48	<0.5	<2	5.74	20	28	5.06	<10	<1	0.27	<10	2.15
1440666	42	0.6	0.6	1840	924	<1	21	4	48	2.61	6	<10	54	<0.5	<2	6.88	17	28	4.94	<10	2	0.18	<10	2.22
1440667	74	1.0	<0.5	1530	814	2	22	<2	63	2.41	5	<10	48	<0.5	<2	5.13	17	25	5.53	<10	<1	0.20	<10	2.17
1440668	69	1.0	<0.5	1530	796	2	21	<2	62	2.42	5	<10	53	<0.5	<2	4.93	19	25	5.29	<10	<1	0.20	<10	2.11
1440669	66	1.3	0.5	4430	784	<1	26	<2	43	2.71	<2	<10	34	<0.5	<2	4.70	17	34	5.71	<10	1	0.14	<10	2.60
1440670	56	0.9	<0.5	2590	686	<1	21	<2	39	2.45	<2	<10	43	<0.5	<2	3.67	18	33	6.00	<10	<1	0.15	<10	2.38
1440671	41	0.6	<0.5	2510	640	<1	19	<2	37	2.44	5	<10	83	<0.5	<2	4.22	16	28	5.37	<10	3	0.15	<10	2.48
1440672	61	0.7	<0.5	3110	585	<1	22	<2	38	2.44	<2	<10	50	<0.5	<2	2.95	18	32	5.86	<10	<1	0.15	<10	2.55
1440673	59	0.6	<0.5	4310	474	2	19	<2	33	2.40	6	<10	44	<0.5	<2	3.35	18	27	5.15	<10	<1	0.18	<10	2.50
1440674	50	0.5	<0.5	2310	535	<1	21	6	44	2.74	4	<10	41	<0.5	<2	3.56	17	28	5.07	<10	1	0.13	<10	2.58
1440675	80	0.8	0.8	3570	620	<1	21	<2	44	2.96	2	<10	56	<0.5	<2	3.30	17	29	5.84	<10	2	0.15	<10	2.63
1440676	104	1.2	<0.5	4380	677	1	22	3	46	2.44	15	<10	44	<0.5	<2	4.03	16	29	5.86	<10	<1	0.12	<10	2.54

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440506	0.086	0.107	0.24	2	8	55	0.25	<1	<2	<10	275	<10	8	7
1440507	0.074	0.112	0.21	3	14	34	0.23	4	<2	<10	285	<10	11	7
1440508	0.043	0.119	0.17	4	14	36	0.07	<1	<2	<10	267	<10	12	5
1440509	0.053	0.113	0.25	<2	14	44	0.06	<1	<2	<10	246	<10	12	5
1440510	0.025	0.122	1.07	3	10	48	0.01	<1	<2	<10	193	<10	11	3
1440511	0.028	0.119	1.30	3	11	43	0.01	<1	<2	<10	214	<10	10	4
1440512	0.027	0.114	1.29	4	11	54	0.02	<1	<2	<10	199	<10	10	3
1440513	0.018	0.111	1.50	3	9	67	0.02	<1	<2	<10	130	<10	9	3
1440514	0.015	0.098	2.40	3	7	74	<0.01	<1	<2	<10	83	<10	8	3
1440515	0.017	0.101	2.83	3	8	85	<0.01	<1	2	<10	86	<10	9	3
1440516	0.016	0.110	1.97	4	6	75	<0.01	<1	<2	<10	98	<10	9	4
1440517	0.019	0.117	2.35	4	4	54	<0.01	<1	<2	<10	91	<10	9	6
1440518	0.016	0.117	1.40	4	5	57	<0.01	<1	<2	<10	114	<10	10	5
1440519	0.020	0.114	0.51	3	7	55	<0.01	<1	<2	<10	157	<10	12	5
1440520	0.029	0.127	0.13	5	6	61	<0.01	<1	3	<10	168	<10	11	5
1440521	0.020	0.115	1.23	3	6	61	<0.01	<1	<2	<10	134	<10	10	5
1440522	0.021	0.124	0.37	4	6	70	<0.01	<1	<2	<10	146	<10	10	4
1440523	0.033	0.123	0.53	2	7	51	0.02	<1	<2	<10	174	<10	12	6
1440524	0.036	0.114	0.50	3	7	56	<0.01	2	<2	<10	153	<10	11	5
1440525	0.043	0.116	0.30	3	7	70	<0.01	<1	<2	<10	145	<10	12	4
1440526	0.070	0.127	0.16	2	10	46	0.12	4	<2	<10	198	<10	12	8
1440527	0.060	0.130	0.56	2	10	36	0.12	1	<2	<10	218	<10	13	9
1440528	0.064	0.118	0.76	2	12	32	0.21	<1	<2	<10	226	<10	14	9
1440529	0.064	0.119	0.77	<2	12	32	0.21	<1	<2	<10	226	<10	14	9
1440530	0.037	0.045	0.56	59	<1	172	<0.01	5	<2	<10	12	<10	4	2
1440531	0.096	0.133	0.47	3	12	49	0.19	<1	<2	<10	242	<10	14	10
1440532	0.090	0.129	0.11	3	14	53	0.25	<1	<2	<10	257	<10	13	11
1440533	0.082	0.134	0.26	2	12	46	0.12	<1	<2	<10	242	<10	14	9
1440534	0.144	0.129	0.03	4	13	49	0.19	5	<2	<10	262	<10	13	9
1440535	0.063	0.089	<0.01	2	4	31	0.06	<1	<2	<10	68	<10	15	11
1440536	0.089	0.126	0.19	3	11	65	0.15	<1	<2	<10	228	<10	14	9
1440537	0.042	0.121	0.15	3	7	92	0.03	2	<2	<10	162	<10	13	5
1440538	0.029	0.108	1.07	4	6	153	<0.01	<1	3	<10	127	<10	9	5
1440539	0.022	0.103	1.33	3	8	219	<0.01	<1	<2	<10	120	<10	9	3
1440540	0.024	0.101	1.21	2	8	175	<0.01	<1	<2	<10	124	<10	9	3
1440541	0.021	0.115	1.92	3	7	143	<0.01	<1	<2	<10	83	<10	8	3
1440542	0.022	0.097	2.04	4	6	135	<0.01	2	<2	<10	80	<10	8	3
1440543	0.024	0.094	1.93	3	6	96	<0.01	<1	<2	<10	107	<10	7	2
1440544	0.030	0.101	0.77	3	7	111	<0.01	<1	<2	<10	131	<10	8	2
1440545	0.026	0.097	1.13	<2	6	97	<0.01	<1	<2	<10	117	<10	7	2
1440546	0.034	0.099	0.95	2	7	115	<0.01	<1	<2	<10	105	<10	7	3
1440547	0.066	0.093	0.26	3	8	202	0.03	<1	<2	<10	123	<10	7	3
1440548	0.036	0.101	0.98	4	8	115	0.01	<1	<2	<10	125	<10	7	3
1440549	0.059	0.097	1.22	2	7	113	0.03	5	<2	<10	104	<10	7	3
1440550	0.073	0.101	0.44	3	8	122	0.05	7	<2	<10	135	<10	9	4
1440551	0.078	0.106	0.81	3	11	90	0.17	2	<2	<10	179	<10	7	8
1440552	0.103	0.109	0.27	4	12	149	0.22	<1	<2	<10	194	<10	8	10
1440553	0.067	0.102	0.17	3	12	140	0.18	<1	<2	<10	186	<10	7	10
1440554	0.099	0.102	0.29	4	12	112	0.20	<1	<2	<10	190	<10	7	10
1440555	0.075	0.101	0.31	2	12	105	0.20	<1	<2	<10	186	<10	7	9
1440556	0.036	0.046	0.56	61	<1	173	<0.01	7	<2	<10	12	<10	4	2
1440557	0.076	0.104	0.59	5	11	112	0.19	4	<2	<10	179	<10	6	8

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440558	0.098	0.100	0.43	2	10	232	0.17	<1	<2	<10	174	<10	7	7
1440559	0.049	0.097	0.79	3	7	157	0.03	<1	<2	<10	108	<10	8	4
1440560	0.089	0.086	<0.01	3	4	41	0.10	1	<2	<10	72	<10	15	14
1440561	0.093	0.100	0.87	2	10	152	0.14	<1	<2	<10	166	<10	7	7
1440562	0.095	0.103	0.80	3	11	95	0.20	<1	<2	<10	188	<10	7	8
1440563	0.062	0.102	2.06	<2	8	76	0.17	<1	<2	<10	149	<10	6	6
1440564	0.071	0.099	1.97	3	8	94	0.13	<1	<2	<10	149	<10	6	6
1440565	0.111	0.101	0.44	3	10	132	0.18	2	<2	<10	165	<10	7	7
1440566	0.144	0.105	0.53	3	10	130	0.19	5	<2	<10	166	<10	7	9
1440567	0.117	0.112	0.45	<2	10	147	0.20	9	<2	<10	167	<10	7	10
1440568	0.124	0.099	0.64	<2	9	146	0.18	5	<2	<10	159	<10	7	9
1440569	0.142	0.098	0.56	4	10	133	0.16	<1	<2	<10	153	<10	7	8
1440570	0.150	0.107	0.28	<2	10	143	0.17	<1	<2	<10	166	<10	7	8
1440571	0.157	0.109	0.36	<2	11	175	0.16	<1	<2	<10	180	<10	7	7
1440572	0.136	0.106	0.67	2	12	231	0.18	<1	<2	<10	183	<10	8	8
1440573	0.080	0.109	0.81	2	14	74	0.21	<1	<2	<10	214	<10	11	10
1440574	0.086	0.131	0.57	2	13	74	0.21	6	<2	<10	220	<10	10	10
1440575	0.053	0.092	0.88	4	9	97	0.18	<1	<2	<10	188	<10	7	9
1440576	0.075	0.100	1.00	2	10	91	0.20	<1	<2	<10	194	<10	7	9
1440577	0.072	0.099	1.27	2	10	67	0.28	<1	<2	<10	224	<10	7	12
1440578	0.096	0.106	0.88	<2	10	94	0.27	2	<2	<10	221	<10	8	12
1440579	0.043	0.095	1.50	2	8	122	0.01	<1	<2	<10	132	<10	9	4
1440580	0.036	0.046	0.56	57	<1	169	<0.01	4	<2	<10	12	<10	4	2
1440581	0.072	0.125	1.33	3	11	82	0.14	2	<2	<10	229	<10	8	6
1440582	0.079	0.122	0.64	3	14	88	0.21	<1	<2	<10	265	<10	8	8
1440583	0.077	0.122	0.52	4	14	70	0.18	<1	<2	<10	262	<10	8	7
1440584	0.051	0.115	1.95	3	10	83	0.10	<1	<2	<10	203	<10	7	5
1440585	0.045	0.106	2.33	3	7	63	0.03	1	<2	<10	142	<10	7	4
1440586	0.060	0.096	1.87	<2	7	90	0.05	<1	<2	<10	125	<10	7	5
1440587	0.042	0.099	1.76	3	7	60	0.03	<1	<2	<10	129	<10	7	4
1440588	0.054	0.102	1.95	<2	10	71	0.11	<1	<2	<10	159	<10	6	6
1440589	0.041	0.105	2.77	3	7	55	<0.01	3	<2	<10	127	<10	7	5
1440590	0.035	0.095	2.84	3	6	50	<0.01	2	<2	<10	110	<10	7	4
1440591	0.062	0.104	2.41	2	8	67	0.06	<1	<2	<10	144	<10	7	5
1440592	0.052	0.109	2.14	<2	9	68	0.04	<1	<2	<10	139	<10	7	5
1440593	0.061	0.109	2.18	<2	9	64	0.05	5	<2	<10	156	<10	7	6
1440594	0.039	0.101	3.50	2	7	58	0.05	2	<2	<10	126	<10	7	5
1440595	0.070	0.126	1.49	3	11	63	0.21	<1	<2	<10	234	<10	7	6
1440596	0.065	0.116	1.43	<2	10	68	0.22	<1	<2	<10	238	<10	6	6
1440597	0.058	0.118	1.96	5	9	59	0.21	4	<2	<10	227	<10	5	5
1440598	0.057	0.105	1.87	2	10	68	0.17	<1	<2	<10	210	<10	6	5
1440599	0.075	0.142	1.40	3	9	79	0.23	2	<2	<10	252	<10	7	6
1440600	0.071	0.132	0.87	3	11	73	0.21	<1	<2	<10	250	<10	8	6
1440601	0.072	0.135	1.90	3	13	77	0.23	<1	<2	<10	270	<10	8	6
1440602	0.077	0.132	0.96	2	16	75	0.23	<1	<2	<10	285	<10	10	7
1440603	0.067	0.120	1.75	3	12	81	0.21	2	<2	<10	234	<10	8	6
1440604	0.071	0.124	1.27	2	13	95	0.20	<1	<2	<10	248	<10	8	6
1440605	0.065	0.110	1.13	3	12	78	0.17	1	<2	<10	223	<10	7	4
1440606	0.064	0.106	1.41	9	12	75	0.20	<1	<2	<10	220	<10	7	5
1440607	0.035	0.046	0.55	59	<1	162	<0.01	3	<2	<10	12	<10	4	2
1440608	0.036	0.053	0.93	<2	6	45	0.09	3	<2	<10	113	<10	4	2
1440609	0.245	0.086	<0.01	3	6	85	0.30	<1	<2	<10	91	<10	12	14

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440610	0.062	0.130	1.31	3	14	83	0.27	2	<2	<10	282	<10	9	6
1440611	0.056	0.126	0.65	3	16	74	0.27	<1	<2	<10	276	<10	9	5
1440612	0.052	0.125	1.33	3	12	57	0.17	<1	4	<10	229	<10	9	4
1440613	0.059	0.113	0.94	3	11	70	0.19	<1	<2	<10	235	<10	8	6
1440614	0.057	0.135	0.76	5	13	77	0.26	<1	<2	<10	276	<10	8	8
1440615	0.049	0.100	2.37	3	9	84	0.19	<1	<2	<10	177	<10	6	5
1440616	0.075	0.122	1.31	<2	11	78	0.25	<1	<2	<10	251	<10	6	7
1440617	0.081	0.132	0.53	3	11	106	0.26	<1	<2	<10	263	<10	8	8
1440618	0.061	0.116	2.17	4	13	70	0.23	<1	<2	<10	233	<10	7	6
1440619	0.061	0.123	1.90	4	13	62	0.22	<1	<2	<10	220	<10	7	6
1440620	0.076	0.119	1.98	3	14	70	0.23	<1	<2	<10	262	<10	8	6
1440621	0.076	0.106	3.22	5	11	68	0.24	7	<2	<10	205	<10	8	5
1440622	0.078	0.132	1.90	3	12	66	0.27	<1	<2	<10	266	<10	8	6
1440623	0.055	0.113	1.48	3	12	75	0.24	<1	<2	<10	223	<10	9	5
1440624	0.055	0.129	0.99	3	15	55	0.26	<1	<2	<10	255	<10	10	7
1440625	0.063	0.111	1.39	4	13	68	0.21	2	<2	<10	238	<10	9	6
1440626	0.065	0.111	0.43	3	13	75	0.24	<1	<2	<10	254	<10	8	7
1440627	0.063	0.126	0.91	2	16	68	0.21	<1	<2	<10	255	<10	10	7
1440628	0.059	0.114	1.83	5	11	66	0.04	5	<2	<10	194	<10	8	4
1440629	0.050	0.106	2.88	3	10	79	0.02	<1	<2	<10	188	<10	9	4
1440630	0.055	0.110	1.58	3	13	64	0.10	<1	<2	<10	215	<10	9	4
1440631	0.059	0.112	1.71	<2	12	59	0.15	1	<2	<10	213	<10	9	5
1440632	0.035	0.047	0.57	61	<1	170	<0.01	4	<2	<10	12	<10	4	2
1440633	0.064	0.111	2.06	2	12	68	0.23	<1	<2	<10	207	<10	8	6
1440634	0.062	0.103	1.58	3	14	67	0.23	<1	<2	<10	217	<10	9	6
1440635	0.189	0.083	0.01	2	6	69	0.29	2	<2	<10	88	<10	12	16
1440636	0.055	0.104	1.46	<2	12	63	0.22	5	<2	<10	217	<10	8	6
1440637	0.053	0.101	1.03	3	13	62	0.22	<1	<2	<10	201	<10	10	8
1440638	0.053	0.147	0.30	3	9	124	0.17	<1	<2	<10	187	<10	11	11
1440639	0.069	0.102	1.60	2	11	75	0.14	<1	<2	<10	188	<10	8	6
1440640	0.064	0.096	2.15	3	9	72	0.16	<1	<2	<10	165	<10	8	6
1440641	0.061	0.106	2.01	<2	10	63	0.21	<1	<2	<10	209	<10	8	5
1440642	0.051	0.107	1.48	2	11	60	0.18	<1	<2	<10	199	<10	10	5
1440643	0.072	0.114	0.94	3	13	59	0.13	<1	<2	<10	214	<10	11	5
1440644	0.073	0.110	1.24	3	11	48	0.21	<1	<2	<10	214	<10	9	7
1440645	0.084	0.107	1.51	3	11	51	0.25	<1	<2	<10	232	<10	9	7
1440646	0.067	0.112	1.99	3	11	62	0.23	<1	<2	<10	211	<10	8	6
1440647	0.062	0.111	2.30	3	11	65	0.21	<1	<2	<10	197	<10	8	6
1440648	0.060	0.108	2.20	4	11	65	0.21	<1	<2	<10	193	<10	7	6
1440649	0.074	0.107	1.52	2	9	67	0.25	<1	<2	<10	206	<10	8	5
1440650	0.070	0.114	1.28	<2	8	76	0.26	<1	<2	<10	223	<10	8	5
1440651	0.073	0.109	1.22	<2	11	63	0.25	2	<2	<10	224	<10	9	6
1440652	0.062	0.097	1.44	<2	11	66	0.26	8	<2	<10	219	<10	8	6
1440653	0.067	0.096	1.58	2	12	64	0.25	7	<2	<10	215	<10	8	4
1440654	0.069	0.100	1.35	<2	12	62	0.28	2	<2	<10	237	<10	8	6
1440655	0.060	0.099	1.54	3	14	73	0.26	<1	<2	<10	237	<10	8	7
1440656	0.063	0.108	1.11	3	17	72	0.28	4	<2	<10	241	<10	9	8
1440657	0.050	0.098	1.08	2	15	101	0.19	6	<2	<10	213	<10	9	6
1440658	0.035	0.045	0.55	61	<1	164	<0.01	3	<2	<10	12	<10	4	2
1440659	0.045	0.109	1.39	2	10	51	0.06	<1	<2	<10	178	<10	9	3
1440660	0.052	0.131	1.50	3	12	50	0.11	<1	3	<10	209	<10	9	4
1440661	0.189	0.089	<0.01	3	6	71	0.30	1	<2	<10	94	<10	13	14

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440662	0.062	0.128	2.47	3	13	54	0.22	< 1	< 2	< 10	229	< 10	9	5
1440663	0.063	0.125	1.38	3	13	94	0.15	2	< 2	< 10	214	< 10	10	5
1440664	0.058	0.114	1.51	3	12	165	0.02	< 1	< 2	< 10	190	< 10	9	3
1440665	0.051	0.100	1.47	3	10	115	< 0.01	< 1	< 2	< 10	145	< 10	11	2
1440666	0.049	0.089	1.17	< 2	11	445	0.01	< 1	< 2	< 10	166	< 10	10	3
1440667	0.049	0.100	1.43	3	10	178	0.02	< 1	< 2	< 10	170	< 10	9	3
1440668	0.049	0.097	1.46	< 2	10	179	0.02	< 1	< 2	< 10	172	< 10	9	3
1440669	0.061	0.112	1.36	< 2	12	73	0.04	< 1	< 2	< 10	198	< 10	9	3
1440670	0.065	0.105	0.55	3	14	70	0.17	< 1	< 2	< 10	229	< 10	10	5
1440671	0.065	0.111	0.89	4	12	141	0.13	< 1	< 2	< 10	201	< 10	10	4
1440672	0.059	0.105	1.53	2	11	70	0.05	< 1	< 2	< 10	212	< 10	8	3
1440673	0.063	0.116	1.89	2	10	51	0.07	< 1	< 2	< 10	177	< 10	8	3
1440674	0.056	0.097	1.27	3	12	214	0.11	< 1	< 2	< 10	221	< 10	8	3
1440675	0.065	0.123	1.22	4	13	76	0.09	< 1	< 2	< 10	235	< 10	9	3
1440676	0.044	0.105	1.57	3	12	56	0.13	< 1	< 2	< 10	219	< 10	8	4

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Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		28.2	2.8	1170	737	13	26	592	687	0.34	407	< 10	208	0.8	1390	0.70	5	6	21.1	< 10	3	0.03	< 10	0.12
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-1 Meas		29.1	2.8	1210	758	14	37	609	714	0.34	425	12	193	0.8	1420	0.73	5	6	21.9	< 10	2	0.03	< 10	0.13
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-4 Meas		3.2	< 0.5	6170	133	290	41	42	67	2.86	100	< 10	53	1.4	10	0.81	13	52	2.92	< 10	3	1.56	39	1.54
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-4 Meas		3.3	< 0.5	6480	142	315	44	45	71	3.04	114	< 10	40	1.4	10	0.84	14	56	3.01	< 10	< 1	1.60	39	1.59
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-6 Meas		0.2	< 0.5	79	1030	1	27	98	121	7.42	266	< 10	756	0.8	< 2	0.10	14	82	6.17	10	1	0.97	< 10	0.38
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
GXR-6 Meas		0.2	< 0.5	79	1060	1	30	96	126	7.59	276	< 10	770	0.8	< 2	0.11	15	85	6.24	10	< 1	1.01	< 10	0.39
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
SAR-M (U.S.G.S.) Meas		2.7	4.7	317	3920	11	44	1050	942	1.00	39		179	1.1	< 2	0.28	10	92	2.50	< 10		0.20	48	0.32
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
SAR-M (U.S.G.S.) Meas		2.7	5.0	314	4000	12	44	1080	974	1.02	41		185	1.1	< 2	0.29	11	93	2.58	< 10		0.21	49	0.33
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
SE58 Meas	606																							
SE58 Cert	607.00																							
SE58 Meas	578																							
SE58 Cert	607.00																							
SE58 Meas	623																							
SE58 Cert	607.00																							
SE58 Meas	607																							
SE58 Cert	607.00																							
SE58 Meas	615																							
SE58 Cert	607.00																							
SF57 Meas	755																							
SF57 Cert	848.000																							
1440513 Orig	22																							
1440513 Dup	34																							
1440518 Orig		0.4	< 0.5	750	1110	< 1	9	10	94	3.02	< 2	< 10	37	< 0.5	< 2	5.79	15	6	4.95	< 10	1	0.43	< 10	1.68
1440518 Dup		0.5	< 0.5	745	1110	< 1	9	10	95	3.06	3	< 10	37	< 0.5	< 2	5.82	15	6	5.01	< 10	< 1	0.44	< 10	1.70
1440528 Orig	7																							
1440528 Dup	8																							
1440532 Orig		< 0.2	< 0.5	354	655	3	9	< 2	63	2.45	3	< 10	84	< 0.5	< 2	1.59	14	10	5.63	< 10	< 1	0.17	< 10	2.25
1440532 Dup		< 0.2	< 0.5	342	649	2	9	< 2	62	2.40	2	< 10	83	< 0.5	< 2	1.58	14	10	5.56	< 10	< 1	0.17	< 10	2.21
1440535 Orig	< 5	< 0.2	< 0.5	29	633	< 1	15	5	65	1.61	2	< 10	70	< 0.5	3	2.09	15	19	3.51	< 10	< 1	0.18	15	0.90
1440535 Split	< 5	< 0.2	< 0.5	30	621	< 1	14	3	64	1.57	< 2	< 10	70	< 0.5	< 2	2.04	14	18	3.41	< 10	< 1	0.18	15	0.88
1440545 Orig		0.2	< 0.5	120	1650	< 1	25	4	156	3.49	7	< 10	67	< 0.5	< 2	4.97	25	33	5.39	< 10	< 1	0.25	< 10	2.60
1440545 Dup		< 0.2	< 0.5	116	1640	< 1	24	< 2	156	3.44	7	< 10	79	< 0.5	< 2	4.97	22	34	5.35	< 10	< 1	0.25	< 10	2.60
1440549 Orig	42																							
1440549 Dup	36																							
1440555 Orig	5	< 0.2	< 0.5	117	1410	< 1	23	2	122	3.27	6	< 10	176	< 0.5	< 2	3.14	20	41	5.06	< 10	< 1	0.09	< 10	2.76
1440555 Split	< 5	< 0.2	0.6	120	1430	< 1	25	5	123	3.32	7	< 10	165	< 0.5	< 2	3.18	21	42	5.12	< 10	< 1	0.08	< 10	2.82
1440559 Orig		< 0.2	< 0.5	102	1360	< 1	25	2	108	2.87	4	< 10	97	< 0.5	< 2	5.71	16	32	4.67	< 10	< 1	0.33	< 10	2.28
1440559 Dup		< 0.2	< 0.5	104	1400	< 1	25	3	109	2.92	3	< 10	95	< 0.5	< 2	5.84	17	33	4.64	< 10	1	0.33	< 10	2.30
1440564 Orig	24																							
1440564 Dup	24																							
1440565 Orig	7	< 0.2	< 0.5	138	862	< 1	25	< 2	68	3.26	< 2	< 10	90	< 0.5	< 2	2.88	19	41	4.71	< 10	< 1	0.12	< 10	2.77
1440565 Split	6	< 0.2	< 0.5	138	879	< 1	25	< 2	69	3.19	4	< 10	90	< 0.5	< 2	2.91	18	41	4.71	< 10	< 1	0.12	< 10	2.80
1440582 Orig		< 0.2	0.6	329	1150	< 1	23	2	72	2.93	7	< 10	85	< 0.5	< 2	4.07	21	30	5.99	< 10	< 1	0.19	< 10	2.40
1440582 Dup		< 0.2	0.7	310	1150	< 1	23	< 2	70	2.88	6	< 10	82	< 0.5	< 2	4.02	22	31	5.89	< 10	< 1	0.19	< 10	2.35
1440585 Orig	38																							
1440585 Dup	37																							
1440595 Orig	89	0.4	< 0.5	616	970	< 1	24	4	61	2.89	5	< 10	52	< 0.5	< 2	2.64	17	29	6.00	< 10	< 1	0.22	< 10	2.63
1440595 Split	95	0.4	0.6	627	989	< 1	20	< 2	63	2.95	8	< 10	49	< 0.										

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Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440596 Dup		0.4	< 0.5	547	886	< 1	20	< 2	51	3.18	8	< 10	43	< 0.5	< 2	3.09	20	26	5.42	< 10	< 1	0.16	< 10	2.46
1440600 Orig	25																							
1440600 Dup	25																							
1440605 Orig	24	< 0.2	0.6	210	870	< 1	24	< 2	52	3.46	6	< 10	42	< 0.5	< 2	3.15	17	28	5.72	< 10	< 1	0.15	< 10	2.44
1440605 Split	24	< 0.2	< 0.5	185	837	< 1	21	< 2	52	3.49	3	< 10	44	< 0.5	< 2	3.42	18	27	5.61	< 10	< 1	0.19	< 10	2.40
1440609 Orig		< 0.2	< 0.5	37	559	< 1	18	6	64	2.16	< 2	< 10	63	< 0.5	< 2	1.45	16	20	3.73	< 10	< 1	0.11	13	1.12
1440609 Dup		0.4	< 0.5	37	564	< 1	18	4	65	2.13	3	< 10	62	< 0.5	< 2	1.47	17	20	3.70	< 10	< 1	0.11	13	1.11
1440615 Orig	97	0.9	0.6	654	1310	< 1	19	7	77	2.69	31	< 10	53	< 0.5	< 2	9.12	17	23	5.32	< 10	< 1	0.26	< 10	1.90
1440615 Split	102	0.8	< 0.5	630	1260	< 1	19	6	76	2.56	32	< 10	51	< 0.5	< 2	8.93	15	22	5.08	< 10	2	0.25	< 10	1.84
1440621 Orig	118																							
1440621 Dup	118																							
1440623 Orig		< 0.2	< 0.5	363	817	3	21	2	49	3.25	10	< 10	58	< 0.5	< 2	5.53	23	27	5.56	< 10	< 1	0.24	< 10	2.63
1440623 Dup		0.2	0.5	353	826	2	23	< 2	51	3.26	9	< 10	49	< 0.5	< 2	5.50	23	26	5.58	< 10	< 1	0.24	< 10	2.64
1440636 Orig	88																							
1440636 Dup	90																							
1440641 Orig		1.1	< 0.5	1970	1040	2	22	6	66	2.39	7	< 10	39	< 0.5	< 2	4.98	20	29	5.50	< 10	< 1	0.14	< 10	2.18
1440641 Dup		1.1	0.5	1990	1060	2	23	< 2	67	2.40	5	< 10	40	< 0.5	< 2	5.00	20	30	5.64	< 10	< 1	0.14	< 10	2.25
1440645 Orig	68	2.0	0.6	2390	842	1	24	3	69	2.14	4	< 10	50	< 0.5	< 2	3.98	20	44	5.71	< 10	< 1	0.16	< 10	1.99
1440645 Split	64	1.8	< 0.5	2260	818	1	22	9	69	2.07	8	< 10	52	< 0.5	< 2	3.88	18	44	5.54	< 10	1	0.16	< 10	1.96
1440655 Orig	78	1.3	< 0.5	3610	790	< 1	25	4	45	2.69	5	< 10	33	< 0.5	< 2	4.30	20	36	5.91	< 10	< 1	0.12	< 10	2.45
1440655 Split	81	1.3	< 0.5	3640	794	< 1	27	< 2	42	2.64	8	< 10	30	< 0.5	< 2	4.41	19	37	5.84	< 10	< 1	0.10	< 10	2.45
1440655 Orig		1.3	< 0.5	3530	795	< 1	27	4	46	2.68	5	< 10	33	< 0.5	< 2	4.29	20	37	5.94	< 10	< 1	0.12	< 10	2.46
1440655 Dup		1.3	< 0.5	3680	785	< 1	22	4	43	2.69	4	< 10	33	< 0.5	< 2	4.32	20	36	5.88	< 10	< 1	0.11	< 10	2.44
1440657 Orig	43																							
1440657 Dup	41																							
1440668 Orig		0.9	0.7	1560	806	2	21	< 2	63	2.42	6	< 10	50	< 0.5	< 2	5.01	18	25	5.38	< 10	< 1	0.20	< 10	2.14
1440668 Dup		1.0	< 0.5	1490	786	2	21	< 2	62	2.42	3	< 10	57	< 0.5	< 2	4.84	19	25	5.21	< 10	1	0.20	< 10	2.08
1440672 Orig	62																							
1440672 Dup	60																							
1440676 Orig	104	1.2	< 0.5	4380	677	1	22	3	46	2.44	15	< 10	44	< 0.5	< 2	4.03	16	29	5.86	< 10	< 1	0.12	< 10	2.54
1440676 Split	101	1.1	0.7	4150	663	< 1	21	< 2	43	2.37	12	< 10	43	< 0.5	< 2	3.96	15	26	5.57	< 10	< 1	0.11	< 10	2.46
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							

Quality Control															
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
GXR-1 Meas	0.038	0.035	0.17	72	< 1	128		7	< 2	31	76	119	25	16	
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0	
GXR-1 Meas	0.040	0.035	0.17	75	< 1	130		15	< 2	31	79	128	26	16	
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0	
GXR-4 Meas	0.115	0.115	1.50	4	5	68		2	< 2	< 10	75	18	10	10	
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186	
GXR-4 Meas	0.119	0.118	1.60	5	5	70		6	2	< 10	80	19	10	11	
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186	
GXR-6 Meas	0.065	0.033	0.01	2	12	22		< 1	< 2	< 10	166	< 10	4	9	
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	0.067	0.033	0.01	4	12	22		< 1	< 2	< 10	171	< 10	4	10	
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110	
SAR-M (U.S.G.S.) Meas	0.026	0.064		5	3	28	0.05	2	< 2	< 10	32	< 10	22		
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00		
SAR-M (U.S.G.S.) Meas	0.027	0.065		5	3	28	0.05	< 1	< 2	< 10	32	< 10	23		
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00		
SE58 Meas															
SE58 Cert															
SE58 Meas															
SE58 Cert															
SE58 Meas															
SE58 Cert															
SE58 Meas															
SE58 Cert															
SE58 Meas															
SE58 Cert															
SF57 Meas															
SF57 Cert															
1440513 Orig															
1440513 Dup															
1440518 Orig	0.016	0.118	1.40	4	5	57	< 0.01	< 1	< 2	< 10	115	< 10	10	5	
1440518 Dup	0.016	0.117	1.40	3	5	57	< 0.01	< 1	< 2	< 10	114	< 10	10	5	
1440528 Orig															
1440528 Dup															
1440532 Orig	0.092	0.130	0.11	3	14	53	0.25	< 1	< 2	< 10	259	< 10	14	11	
1440532 Dup	0.089	0.129	0.11	2	14	53	0.25	< 1	< 2	< 10	255	< 10	13	11	
1440535 Orig	0.063	0.089	< 0.01	2	4	31	0.06	< 1	< 2	< 10	68	< 10	15	11	
1440535 Split	0.064	0.087	< 0.01	2	4	30	0.06	4	< 2	< 10	66	< 10	14	11	
1440545 Orig	0.026	0.096	1.12	< 2	6	96	< 0.01	< 1	< 2	< 10	117	< 10	7	2	
1440545 Dup	0.026	0.098	1.14	3	7	97	< 0.01	2	< 2	< 10	117	< 10	7	2	
1440549 Orig															
1440549 Dup															
1440555 Orig	0.075	0.101	0.31	2	12	105	0.20	< 1	< 2	< 10	186	< 10	7	9	
1440555 Split	0.075	0.106	0.31	4	12	105	0.19	3	< 2	< 10	186	< 10	7	8	
1440559 Orig	0.048	0.097	0.78	4	7	155	0.03	< 1	< 2	< 10	106	< 10	7	4	
1440559 Dup	0.049	0.097	0.80	2	7	160	0.03	5	< 2	< 10	111	< 10	8	4	
1440564 Orig															
1440564 Dup															
1440565 Orig	0.111	0.101	0.44	3	10	132	0.18	2	< 2	< 10	165	< 10	7	7	
1440565 Split	0.115	0.104	0.44	3	9	129	0.17	< 1	< 2	< 10	162	< 10	7	7	
1440582 Orig	0.080	0.123	0.64	3	14	89	0.22	< 1	< 2	< 10	267	< 10	8	8	
1440582 Dup	0.078	0.121	0.64	3	13	88	0.21	2	< 2	< 10	264	< 10	8	7	
1440585 Orig															
1440585 Dup															
1440595 Orig	0.070	0.126	1.49	3	11	63	0.21	< 1	< 2	< 10	234	< 10	7	6	
1440595 Split	0.070	0.131	1.54	5	11	63	0.21	< 1	< 2	< 10	238	< 10	7	6	
1440596 Orig	0.065	0.116	1.44	< 2	10	68	0.22	< 1	< 2	< 10	240	< 10	6	6	

Quality Control															
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440596 Dup	0.066	0.116	1.42	3	10	68	0.22	3	<2	<10	237	<10	6	6	
1440600 Orig															
1440600 Dup															
1440605 Orig	0.065	0.110	1.13	3	12	78	0.17	1	<2	<10	223	<10	7	4	
1440605 Split	0.068	0.111	1.44	5	12	76	0.20	<1	<2	<10	226	<10	7	5	
1440609 Orig	0.247	0.086	<0.01	2	6	84	0.30	<1	<2	<10	90	<10	12	14	
1440609 Dup	0.244	0.086	<0.01	3	6	85	0.31	1	<2	<10	91	<10	12	14	
1440615 Orig	0.049	0.100	2.37	3	9	84	0.19	<1	<2	<10	177	<10	6	5	
1440615 Split	0.048	0.098	2.17	<2	9	79	0.18	<1	<2	<10	165	<10	6	5	
1440621 Orig															
1440621 Dup															
1440623 Orig	0.055	0.113	1.48	3	12	75	0.24	2	<2	<10	224	<10	9	5	
1440623 Dup	0.055	0.113	1.49	3	11	74	0.23	<1	<2	<10	223	<10	9	5	
1440636 Orig															
1440636 Dup															
1440641 Orig	0.060	0.105	1.99	<2	10	63	0.21	1	<2	<10	206	<10	8	5	
1440641 Dup	0.063	0.108	2.04	3	10	64	0.22	<1	<2	<10	211	<10	8	5	
1440645 Orig	0.084	0.107	1.51	3	11	51	0.25	<1	<2	<10	232	<10	9	7	
1440645 Split	0.083	0.104	1.42	3	10	48	0.24	1	<2	<10	220	<10	9	7	
1440655 Orig	0.060	0.099	1.54	3	14	73	0.26	<1	<2	<10	237	<10	8	7	
1440655 Split	0.054	0.100	1.51	5	14	73	0.25	3	<2	<10	233	<10	8	7	
1440655 Orig	0.061	0.099	1.53	3	14	73	0.26	<1	<2	<10	234	<10	8	7	
1440655 Dup	0.059	0.099	1.55	2	14	73	0.26	<1	<2	<10	240	<10	8	7	
1440657 Orig															
1440657 Dup															
1440668 Orig	0.049	0.099	1.48	<2	10	180	0.02	<1	<2	<10	172	<10	9	3	
1440668 Dup	0.050	0.096	1.44	4	10	178	0.02	3	<2	<10	172	<10	9	3	
1440672 Orig															
1440672 Dup															
1440676 Orig	0.044	0.105	1.57	3	12	56	0.13	<1	<2	<10	219	<10	8	4	
1440676 Split	0.042	0.102	1.48	3	12	54	0.12	2	<2	<10	209	<10	7	4	
Method Blank	0.008	<0.001	<0.01	<2	<1	<1	<0.01	3	<2	<10	<1	<10	<1	<1	
Method Blank	0.008	<0.001	<0.01	<2	<1	<1	<0.01	<1	<2	<10	<1	<10	<1	<1	
Method Blank	0.008	<0.001	<0.01	<2	<1	<1	<0.01	<1	<2	<10	<1	<10	<1	<1	
Method Blank															
Method Blank															
Method Blank															
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Method Blank															
Method Blank															



Date Submitted: 12-Jun-13
Invoice No.: A13-06577
Invoice Date: 13-Jun-13
Your Reference:

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

5 Rock samples were submitted for analysis.

The following analytical package was requested: Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A13-06577**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
+1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd. Report: A13-06577

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%
Detection Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440501	1.8	< 0.5	7630	807	8	22	3	48	2.56	26	< 10	25	< 0.5	2	6.54	24	36	5.17	< 10	< 1	0.09	< 10	2.46	0.041
1440502	0.8	< 0.5	1820	974	2	24	3	58	2.55	8	< 10	57	< 0.5	< 2	2.80	22	43	5.56	< 10	< 1	0.12	< 10	2.71	0.087
1440503	2.4	< 0.5	5360	994	< 1	27	10	64	2.19	4	< 10	28	< 0.5	< 2	3.90	23	34	5.69	< 10	< 1	0.08	< 10	2.32	0.049
1440504	0.3	< 0.5	146	1100	< 1	27	8	80	2.90	11	< 10	44	< 0.5	3	3.71	25	27	5.23	< 10	< 1	0.28	< 10	2.14	0.022
1440505	1.6	< 0.5	3760	898	2	16	6	56	2.12	5	< 10	40	< 0.5	< 2	4.66	19	30	5.59	< 10	1	0.11	< 10	1.85	0.064

Activation Laboratories Ltd. Report: A13-06577

Analyte Symbol	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440501	0.083	2.19	4	13	74	0.27	1	< 2	< 10	207	< 10	7	199
1440502	0.110	1.13	3	13	57	0.29	< 1	< 2	< 10	256	< 10	8	236
1440503	0.118	2.23	< 2	12	84	0.22	< 1	< 2	< 10	214	< 10	7	210
1440504	0.106	2.09	4	6	81	< 0.01	4	2	< 10	79	< 10	6	105
1440505	0.095	1.90	3	9	105	0.18	< 1	< 2	< 10	191	< 10	7	221

Activation Laboratories Ltd. Report: A13-06577

Quality Control																								
Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%
Detection Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	28.0	1.8	1130	791	14	30	587	703	0.36	383	12	199	0.8	1370	0.73	5	17	20.2	< 10	< 1	0.03	< 10	0.13	0.037
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520
GXR-4 Meas	3.4	< 0.5	6290	147	303	37	46	75	2.99	108	< 10	96	1.4	29	0.81	14	55	3.08	< 10	< 1	1.59	34	1.53	0.125
GXR-4 Cert	4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564
SAR-M (U.S.G.S.) Meas	2.5	4.1	305	4030	12	37	970	923	1.02	39		175	1.1	2	0.28	10	93	2.37	< 10		0.21	46	0.32	0.028
SAR-M (U.S.G.S.) Cert	3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50	1.140
1440502 Orig	0.9	< 0.5	1860	976	2	24	4	59	2.56	5	< 10	58	< 0.5	< 2	2.83	22	43	5.57	< 10	< 1	0.12	< 10	2.72	0.087
1440502 Dup	0.8	< 0.5	1790	972	2	24	3	58	2.54	10	< 10	56	< 0.5	< 2	2.77	21	43	5.55	< 10	< 1	0.12	< 10	2.71	0.086
1440505 Orig	1.6	< 0.5	3760	898	2	16	6	56	2.12	5	< 10	40	< 0.5	< 2	4.66	19	30	5.59	< 10	1	0.11	< 10	1.85	0.064
1440505 Split	1.7	< 0.5	3780	894	3	17	11	57	2.13	9	< 10	41	< 0.5	< 2	4.69	19	31	5.78	< 10	< 1	0.11	< 10	1.88	0.065

Quality Control													
Analyte Symbol	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.035	0.17	72	< 1	132		6	< 2	62	76	128	27	627
GXR-1 Cert	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	0.114	1.48	4	4	69		< 1	5	< 10	77	21	9	365
GXR-4 Cert	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186
SAR-M (U.S.G.S.) Meas	0.061		6	3	27	0.05	< 1	< 2	< 10	32	< 10	21	
SAR-M (U.S.G.S.) Cert	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00	
1440502 Orig	0.111	1.14	3	13	58	0.29	< 1	< 2	< 10	259	< 10	8	239
1440502 Dup	0.109	1.12	3	13	57	0.28	1	< 2	< 10	253	< 10	8	233
1440505 Orig	0.095	1.90	3	9	105	0.18	< 1	< 2	< 10	191	< 10	7	221
1440505 Split	0.096	1.95	5	9	106	0.18	< 1	< 2	< 10	195	< 10	7	228



Date Submitted: 12-Jun-13
Invoice No.: A13-06577 (i)
Invoice Date: 19-Jun-13
Your Reference:

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

5 Rock samples were submitted for analysis.

The following analytical package was requested: Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A13-06577 (i)**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Analyte Symbol	Au
Unit Symbol	ppb
Detection Limit	5
Analysis Method	FA-AA

1440501	101
1440502	40
1440503	114
1440504	19
1440505	137

Quality Control

Analyte Symbol	Au
Unit Symbol	ppb
Detection Limit	5
Analysis Method	FA-AA

SE58 Meas	592
SE58 Cert	607.00
SF57 Meas	858
SF57 Cert	848.000
1440501 Orig	102
1440501 Dup	99
1440505 Orig	137
1440505 Split	123
Method Blank	< 5
Method Blank	< 5



Date Submitted: 12-Jul-13
Invoice No.: A13-08000 (i)
Invoice Date: 24-Jul-13
Your Reference: MAN-PRIME

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

7 Pulp samples and 174 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-50-Kamloops Au - Fire Assay AA (QOP AA-Au)
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)
Code 8-AR Kamloops Code 8-Assays Kamloops

REPORT **A13-08000 (i)**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A13-08000 (i)

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440701	59	1.3	< 0.5	2670	559	3	21	5	57	2.79	12	< 10	45	< 0.5	< 2	3.26	19	29	4.37	< 10	< 1	0.19	< 10	2.76
1440702	< 5	< 0.2	< 0.5	37	651	2	15	5	67	2.43	< 2	< 10	70	< 0.5	< 2	2.08	17	20	3.89	< 10	< 1	0.12	13	1.27
1440703	21	0.3	< 0.5	1290	438	2	18	3	40	2.30	5	< 10	40	< 0.5	< 2	5.07	22	25	3.79	< 10	< 1	0.28	< 10	2.02
1440704	28	0.5	< 0.5	976	859	< 1	20	< 2	84	2.60	5	< 10	58	< 0.5	< 2	3.62	21	54	5.71	< 10	< 1	0.22	< 10	2.52
1440705	17	< 0.2	< 0.5	224	638	< 1	20	2	67	2.28	3	< 10	44	< 0.5	< 2	5.98	22	45	3.93	< 10	< 1	0.13	< 10	2.05
1440706	24	< 0.2	< 0.5	504	579	< 1	21	3	45	3.25	3	< 10	34	< 0.5	< 2	5.47	23	42	4.63	< 10	< 1	0.13	< 10	2.51
1440707	33	0.8	< 0.5	864	561	< 1	20	< 2	63	2.79	4	< 10	51	< 0.5	< 2	2.53	20	35	5.50	< 10	< 1	0.22	< 10	2.58
1440708	17	0.4	0.5	738	611	1	22	7	48	2.83	3	< 10	43	< 0.5	< 2	3.07	19	34	4.83	< 10	< 1	0.17	< 10	2.18
1440709	17	0.5	< 0.5	540	887	1	21	< 2	64	3.06	3	< 10	59	< 0.5	< 2	4.21	24	35	4.91	< 10	< 1	0.14	< 10	2.32
1440710	14	0.4	< 0.5	535	909	1	20	< 2	65	3.16	3	< 10	58	< 0.5	< 2	4.17	24	35	5.02	< 10	< 1	0.15	< 10	2.42
1440711	40	1.9	0.6	1460	1030	1	18	3	121	2.89	5	< 10	43	< 0.5	< 2	3.25	20	28	5.85	< 10	< 1	0.14	< 10	2.50
1440712	37	0.8	< 0.5	1180	822	< 1	13	< 2	77	2.83	9	< 10	55	< 0.5	< 2	3.11	15	17	5.38	< 10	3	0.17	< 10	2.30
1440713	33	0.6	< 0.5	828	631	1	13	< 2	60	3.31	< 2	17	64	< 0.5	< 2	2.58	21	15	4.99	< 10	< 1	0.19	< 10	2.54
1440714	12	< 0.2	< 0.5	358	527	1	12	3	42	3.26	4	124	73	< 0.5	< 2	3.34	18	15	4.49	< 10	< 1	0.18	< 10	2.00
1440715	28	0.4	< 0.5	693	639	2	12	< 2	54	3.33	5	71	56	< 0.5	< 2	4.82	18	16	4.75	< 10	< 1	0.18	< 10	2.21
1440716	19	0.5	0.8	623	875	< 1	11	< 2	177	3.34	6	20	68	< 0.5	< 2	4.17	19	17	4.84	< 10	< 1	0.23	< 10	2.04
1440717	46	< 0.2	< 0.5	419	539	< 1	11	< 2	41	3.26	5	42	70	< 0.5	< 2	3.14	16	11	4.34	< 10	< 1	0.19	< 10	1.78
1440718	25	0.6	< 0.5	2410	567	< 1	15	< 2	43	3.75	2	10	78	< 0.5	< 2	3.93	22	18	5.16	< 10	< 1	0.27	< 10	2.04
1440719	17	0.5	< 0.5	2150	499	< 1	16	3	41	2.97	< 2	< 10	53	< 0.5	< 2	3.39	20	22	5.50	< 10	< 1	0.23	< 10	2.04
1440720	71	0.3	< 0.5	739	522	1	13	< 2	45	2.96	3	< 10	59	< 0.5	< 2	3.97	20	17	5.46	< 10	< 1	0.26	< 10	1.93
1440721	34	0.5	< 0.5	688	834	< 1	17	4	90	3.24	7	< 10	38	< 0.5	< 2	3.92	21	20	4.81	< 10	< 1	0.16	< 10	2.20
1440722	386	27.3	< 0.5	3910	422	773	15	44	48	0.40	31	< 10	159	< 0.5	< 2	1.39	4	24	1.91	< 10	1	0.15	< 10	0.11
1440723	11	0.2	< 0.5	472	1010	5	16	< 2	81	3.43	3	< 10	31	< 0.5	< 2	3.59	22	21	4.99	< 10	< 1	0.09	< 10	2.39
1440724	198	0.4	< 0.5	687	847	5	15	< 2	74	3.09	< 2	< 10	58	< 0.5	< 2	3.19	20	22	4.71	< 10	< 1	0.11	< 10	2.26
1440725	39	0.5	< 0.5	857	759	3	16	< 2	68	3.38	4	< 10	33	< 0.5	< 2	4.13	21	20	4.61	< 10	< 1	0.10	< 10	2.22
1440726	< 5	< 0.2	< 0.5	38	666	< 1	14	6	66	2.21	2	< 10	58	< 0.5	< 2	2.07	17	20	3.85	< 10	< 1	0.09	13	1.25
1440727	28	< 0.2	< 0.5	519	700	< 1	17	< 2	63	3.20	< 2	< 10	38	< 0.5	< 2	3.53	19	23	4.66	< 10	< 1	0.09	< 10	2.37
1440728	27	0.3	< 0.5	732	630	< 1	18	4	61	4.00	7	< 10	29	< 0.5	< 2	4.32	19	23	4.72	10	< 1	0.07	< 10	2.56
1440729	58	0.6	< 0.5	1120	655	2	18	< 2	59	3.08	3	< 10	32	< 0.5	< 2	3.91	21	23	4.43	< 10	< 1	0.09	< 10	2.57
1440730	51	0.4	< 0.5	830	766	< 1	17	< 2	51	4.34	7	< 10	51	< 0.5	< 2	4.26	17	26	4.59	< 10	< 1	0.08	< 10	2.26
1440731	47	0.5	< 0.5	866	758	< 1	18	< 2	51	4.38	7	< 10	51	< 0.5	< 2	4.18	16	26	4.64	< 10	< 1	0.08	< 10	2.25
1440732	13	< 0.2	< 0.5	267	629	< 1	16	< 2	40	3.25	13	180	42	< 0.5	< 2	3.83	18	23	4.38	< 10	< 1	0.10	< 10	2.00
1440733	13	< 0.2	< 0.5	329	698	< 1	17	< 2	42	3.42	9	11	34	< 0.5	< 2	4.15	20	24	5.00	< 10	< 1	0.10	< 10	2.23
1440734	26	0.4	< 0.5	690	857	< 1	20	< 2	47	3.28	7	13	36	< 0.5	< 2	4.09	21	31	5.65	< 10	< 1	0.10	< 10	2.61
1440735	58	0.8	< 0.5	1320	821	< 1	16	2	38	2.61	3	< 10	26	< 0.5	< 2	7.66	21	26	4.44	< 10	< 1	0.07	< 10	2.15
1440736	60	0.6	< 0.5	1120	694	< 1	21	< 2	45	3.16	2	< 10	38	< 0.5	< 2	4.12	24	29	4.73	< 10	< 1	0.07	< 10	2.51
1440737	55	0.9	< 0.5	1840	914	< 1	17	4	48	2.88	3	< 10	37	< 0.5	< 2	3.69	21	33	5.01	< 10	< 1	0.09	< 10	2.36
1440738	29	0.3	< 0.5	407	515	1	17	< 2	42	2.93	< 2	< 10	42	< 0.5	< 2	3.78	17	26	4.03	< 10	< 1	0.19	< 10	2.05
1440739	12	< 0.2	< 0.5	195	372	< 1	18	< 2	33	2.53	< 2	< 10	49	< 0.5	< 2	3.47	13	21	3.22	< 10	< 1	0.35	< 10	1.64
1440740	17	< 0.2	< 0.5	170	413	2	16	< 2	35	3.53	< 2	< 10	59	< 0.5	< 2	3.13	19	26	4.15	< 10	< 1	0.24	< 10	2.09
1440741	56	< 0.2	< 0.5	198	586	< 1	20	< 2	49	3.74	2	< 10	37	< 0.5	< 2	2.93	27	35	5.80	< 10	< 1	0.28	< 10	2.89
1440742	1310	0.3	< 0.5	200	699	< 1	25	< 2	68	3.43	2	< 10	23	< 0.5	9	3.15	26	46	7.21	< 10	8	0.23	< 10	3.04
1440743	41	0.2	< 0.5	222	806	< 1	30	< 2	71	3.74	4	< 10	31	< 0.5	< 2	3.91	26	63	6.55	< 10	2	0.33	< 10	3.40
1440744	1830	9.8	0.8	5060	700	3	20	6	41	1.73	14	< 10	22	< 0.5	94	7.05	9	27	10.7	< 10	16	0.21	< 10	1.27
1440745	40	1.0	< 0.5	549	414	1	13	< 2	51	3.05	< 2	< 10	49	< 0.5	3	3.47	14	18	4.14	< 10	1	0.34	< 10	2.11
1440746	21	< 0.2	< 0.5	142	392	1	12	< 2	42	2.59	< 2	< 10	29	< 0.5	< 2	3.20	16	16	3.71	< 10	< 1	0.37	< 10	1.82
1440747	352	26.8	< 0.5	3940	419	784	15	45	47	0.41	30	< 10	119	< 0.5	< 2	1.39	4	23	1.93	< 10	1	0.15	< 10	0.11
1440748	31	< 0.2	< 0.5	283	412	5	14	< 2	47	3.17	3	< 10	31	< 0.5	< 2	3.22	18	18	4.31	< 10	< 1	0.29	< 10	2.02
1440749	14	< 0.2	< 0.5	32	380	< 1	13	< 2	45	2.92	2	< 10	52	< 0.5	< 2	3.16	13	18	3.78	< 10	< 1	0.32	< 10	2.09
1440750	< 5	< 0.2	< 0.5	36	518	< 1	15	5	67	2.02	< 2	< 10	62	< 0.5	< 2	1.42	15	20	3.65	< 10	< 1	0.10	13	1.14
1440751	11	< 0.2	< 0.5	42	383	< 1	13	< 2	48	2.83	< 2	< 10	48	< 0.5	3	2.58	13	19	4.10	< 10	< 1	0.32	< 10	2.22
1440752	10	< 0.2	< 0.5	9	326	< 1	10	< 2	35	2.88	3	< 10	20	< 0.5	< 2	2.41	13	18	3.52	< 10	< 1	0.15		

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440753	21	< 0.2	< 0.5	12	320	< 1	11	< 2	33	3.55	< 2	< 10	15	< 0.5	< 2	2.86	13	15	3.58	< 10	< 1	0.16	< 10	1.63
1440754	28	< 0.2	< 0.5	46	391	2	17	3	35	3.54	12	< 10	37	< 0.5	3	3.44	15	24	3.84	< 10	< 1	0.23	< 10	1.89
1440755	17	0.2	< 0.5	436	376	8	11	< 2	31	3.92	5	< 10	30	< 0.5	< 2	3.09	19	14	4.25	10	< 1	0.10	< 10	2.01
1440756	15	< 0.2	< 0.5	307	324	8	13	< 2	29	3.30	< 2	< 10	30	< 0.5	< 2	2.51	15	18	4.29	< 10	< 1	0.11	< 10	2.00
1440757	19	< 0.2	< 0.5	412	343	7	12	< 2	31	3.84	< 2	< 10	29	0.6	< 2	2.90	19	13	4.60	10	< 1	0.12	< 10	2.13
1440758	12	0.3	< 0.5	305	330	15	12	< 2	33	3.47	< 2	< 10	28	< 0.5	< 2	2.54	18	14	4.67	10	< 1	0.13	< 10	2.20
1440759	12	< 0.2	< 0.5	298	332	14	13	< 2	32	3.46	3	< 10	28	< 0.5	< 2	2.55	19	13	4.78	10	< 1	0.13	< 10	2.22
1440760	22	0.3	< 0.5	682	310	24	14	< 2	34	3.37	5	< 10	25	< 0.5	< 2	2.85	33	17	5.28	< 10	< 1	0.18	< 10	2.00
1440761	18	1.1	< 0.5	384	564	8	31	< 2	40	4.73	5	< 10	36	0.6	< 2	4.74	23	53	6.77	10	2	0.18	< 10	2.42
1440762	25	3.9	< 0.5	715	467	5	34	4	35	4.15	4	11	26	0.6	< 2	4.50	28	73	6.32	< 10	< 1	0.13	< 10	2.16
1440763	20	0.3	< 0.5	565	619	17	28	< 2	37	4.06	6	< 10	20	< 0.5	< 2	3.80	24	54	6.06	10	2	0.12	< 10	2.75
1440764	95	2.3	< 0.5	3150	450	13	31	4	43	3.86	13	< 10	21	< 0.5	< 2	3.27	34	48	7.52	10	< 1	0.12	< 10	2.77
1440765	156	2.6	< 0.5	4740	421	20	25	< 2	47	3.65	13	< 10	22	< 0.5	2	3.37	28	35	5.80	10	< 1	0.11	< 10	2.40
1440766	24	0.6	< 0.5	1640	672	11	21	< 2	49	3.71	6	< 10	49	< 0.5	< 2	4.04	19	38	6.17	< 10	< 1	0.22	< 10	2.53
1440767	20	0.3	< 0.5	564	480	14	16	< 2	43	3.14	6	< 10	41	< 0.5	< 2	3.73	20	20	4.77	< 10	< 1	0.31	< 10	2.01
1440768	23	0.2	< 0.5	370	200	17	9	< 2	22	3.17	< 2	< 10	20	< 0.5	3	2.21	20	11	3.78	< 10	1	0.08	< 10	1.38
1440769	9	< 0.2	< 0.5	146	296	6	8	< 2	26	3.28	3	< 10	22	< 0.5	3	2.58	11	12	3.84	< 10	< 1	0.10	< 10	1.58
1440770	324	27.0	< 0.5	3710	404	712	14	40	46	0.38	26	< 10	143	< 0.5	< 2	1.31	3	23	1.85	< 10	2	0.15	< 10	0.11
1440771	9	< 0.2	< 0.5	164	328	63	11	< 2	27	3.08	6	< 10	35	< 0.5	< 2	2.31	13	16	4.03	< 10	< 1	0.11	< 10	1.90
1440772	18	< 0.2	< 0.5	205	212	35	8	< 2	23	2.95	3	< 10	34	< 0.5	< 2	2.11	12	13	4.20	< 10	< 1	0.14	< 10	1.67
1440773	< 5	< 0.2	< 0.5	37	509	1	15	5	64	1.91	< 2	< 10	55	< 0.5	< 2	1.38	15	20	3.61	< 10	< 1	0.09	13	1.13
1440774	< 5	< 0.2	< 0.5	164	344	13	10	< 2	33	3.35	5	< 10	68	< 0.5	< 2	2.37	15	17	4.62	10	< 1	0.20	< 10	1.89
1440775	16	< 0.2	< 0.5	328	278	10	11	< 2	29	3.12	< 2	< 10	50	< 0.5	< 2	2.26	16	17	4.92	10	< 1	0.13	< 10	1.98
1440776	11	< 0.2	< 0.5	335	277	10	11	< 2	30	3.17	3	< 10	51	< 0.5	< 2	2.27	15	17	4.91	10	< 1	0.14	< 10	1.98
1440777	18	< 0.2	< 0.5	309	260	12	12	< 2	30	3.27	4	< 10	44	< 0.5	< 2	2.29	14	19	4.97	< 10	< 1	0.18	< 10	1.97
1440778	22	< 0.2	< 0.5	247	161	21	9	< 2	20	2.54	4	< 10	29	< 0.5	< 2	2.58	18	15	5.30	< 10	< 1	0.20	< 10	1.54
1440779	22	0.3	< 0.5	247	305	4	12	< 2	27	2.48	2	< 10	41	< 0.5	< 2	2.35	19	15	4.91	< 10	< 1	0.30	< 10	1.66
1440780	19	0.2	< 0.5	442	262	5	11	< 2	29	2.73	3	< 10	29	< 0.5	< 2	2.14	13	16	4.32	< 10	< 1	0.16	< 10	1.84
1440781	24	< 0.2	< 0.5	89	171	6	11	< 2	22	2.79	3	< 10	35	< 0.5	< 2	2.00	16	17	4.25	< 10	< 1	0.17	< 10	1.71
1440782	34	< 0.2	< 0.5	596	161	17	11	< 2	22	2.56	< 2	< 10	33	< 0.5	< 2	1.92	24	18	4.62	< 10	< 1	0.17	< 10	1.68
1440783	74	0.3	< 0.5	668	151	52	12	< 2	20	2.32	3	< 10	28	< 0.5	< 2	1.93	29	15	4.81	< 10	< 1	0.32	< 10	1.49
1440784	21	0.2	< 0.5	365	177	25	11	< 2	21	2.40	3	< 10	32	< 0.5	< 2	1.84	23	17	4.13	< 10	< 1	0.23	< 10	1.62
1440785	18	< 0.2	< 0.5	434	210	10	11	< 2	25	2.54	< 2	< 10	43	< 0.5	< 2	1.67	24	17	4.16	< 10	< 1	0.17	< 10	1.83
1440786	28	< 0.2	< 0.5	278	138	8	6	< 2	19	2.34	< 2	< 10	18	< 0.5	< 2	2.04	12	10	2.55	< 10	< 1	0.12	< 10	1.19
1440787	23	0.3	< 0.5	506	345	6	36	< 2	35	3.22	< 2	< 10	28	< 0.5	< 2	2.29	21	69	5.83	10	< 1	0.20	< 10	2.64
1440788	16	< 0.2	< 0.5	304	308	6	27	< 2	32	2.92	< 2	< 10	34	< 0.5	< 2	2.39	18	33	4.99	< 10	< 1	0.22	< 10	2.03
1440789	17	< 0.2	< 0.5	409	302	13	23	2	37	2.91	3	< 10	39	< 0.5	< 2	2.02	18	43	5.00	10	< 1	0.28	< 10	2.07
1440790	13	< 0.2	< 0.5	315	176	56	11	< 2	20	2.20	4	< 10	39	< 0.5	< 2	2.29	22	15	4.11	< 10	< 1	0.28	< 10	1.61
1440791	19	< 0.2	< 0.5	325	148	18	10	5	15	2.16	4	< 10	45	< 0.5	< 2	2.07	21	14	3.71	< 10	< 1	0.35	< 10	1.64
1440792	7	< 0.2	< 0.5	118	115	15	11	3	12	1.87	2	< 10	36	< 0.5	< 2	1.49	23	14	4.24	< 10	< 1	0.33	< 10	1.49
1440793	6	< 0.2	< 0.5	75	161	21	11	3	15	2.16	3	< 10	30	< 0.5	< 2	1.57	23	15	4.23	< 10	< 1	0.33	< 10	1.66
1440794	10	< 0.2	< 0.5	130	172	30	12	< 2	17	2.25	4	< 10	28	< 0.5	< 2	1.50	26	17	4.19	< 10	< 1	0.25	< 10	1.75
1440795	315	27.4	< 0.5	3900	418	775	14	43	47	0.41	27	< 10	122	< 0.5	2	1.38	4	24	1.93	< 10	1	0.15	< 10	0.11
1440796	5	< 0.2	< 0.5	100	582	13	4	2	60	2.58	9	< 10	42	< 0.5	< 2	2.92	18	6	4.33	< 10	< 1	0.32	< 10	1.23
1440797	< 5	< 0.2	< 0.5	23	714	< 1	< 1	< 2	79	2.21	< 2	< 10	53	< 0.5	< 2	3.36	10	1	3.78	< 10	< 1	0.45	12	0.68
1440798	< 5	< 0.2	< 0.5	32	643	< 1	14	4	69	2.06	< 2	< 10	62	< 0.5	< 2	1.77	17	21	3.92	< 10	< 1	0.10	13	1.19
1440799	< 5	< 0.2	< 0.5	30	905	< 1	< 1	< 2	86	2.06	4	< 10	45	< 0.5	< 2	2.70	12	< 1	4.19	< 10	< 1	0.28	12	0.91
1440800	< 5	< 0.2	< 0.5	28	797	1	2	2	78	1.79	5	< 10	43	< 0.5	< 2	2.47	11	1	3.77	< 10	< 1	0.25	11	0.80
1440801	20	< 0.2	< 0.5	158	593	5	8	< 2	53	2.31	< 2	< 10	55	< 0.5	< 2	2.08	17	12	4.48	< 10	< 1	0.27	< 10	1.58
1440802	13	0.2	< 0.5	387	331	9	11	7	30	2.67	3	< 10	55	< 0.5	< 2	1.65	20	17	5.16	< 10	< 1	0.30	< 10	1.94
1440803	13	0.2	< 0.5	422	294	11	12	< 2	28	3.01	< 2	< 10	49	< 0.5	< 2	2.46	20	18	4.88	10	< 1	0.22	< 10	2.03
1440804	12	< 0.2	< 0.5	438	284	5	10	< 2	30	2.99	< 2	< 10	43	< 0.5	< 2	1.92	15	17	4.45	< 10	< 1</			

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440805	59	1.0	< 0.5	1160	236	13	14	< 2	35	2.61	3	< 10	34	< 0.5	3	2.84	38	15	5.31	< 10	< 1	0.22	< 10	1.71
1440806	20	0.3	< 0.5	473	242	11	13	< 2	31	2.72	< 2	< 10	55	< 0.5	< 2	1.87	18	17	4.51	< 10	< 1	0.27	< 10	1.93
1440807	47	< 0.2	< 0.5	416	255	19	11	4	30	2.63	4	< 10	53	< 0.5	18	1.80	18	17	4.74	< 10	< 1	0.29	< 10	1.90
1440808	15	< 0.2	< 0.5	389	272	11	10	< 2	34	2.59	< 2	< 10	31	< 0.5	< 2	1.99	13	16	4.83	< 10	< 1	0.21	< 10	1.93
1440809	28	< 0.2	< 0.5	444	247	10	13	< 2	30	2.99	< 2	< 10	55	< 0.5	< 2	2.12	16	17	5.00	< 10	< 1	0.23	< 10	1.90
1440810	14	< 0.2	< 0.5	303	189	18	10	< 2	24	2.57	< 2	< 10	36	< 0.5	< 2	1.96	21	17	4.40	< 10	< 1	0.17	< 10	1.86
1440811	155	< 0.2	< 0.5	321	151	22	12	< 2	19	2.56	2	< 10	36	< 0.5	< 2	1.77	21	18	4.15	< 10	< 1	0.18	< 10	1.85
1440812	11	< 0.2	< 0.5	258	145	19	11	< 2	18	2.34	< 2	< 10	42	< 0.5	< 2	2.19	20	15	3.43	< 10	< 1	0.27	< 10	1.67
1440813	8	< 0.2	< 0.5	200	114	23	11	< 2	13	2.28	< 2	< 10	40	< 0.5	< 2	1.85	26	13	3.51	< 10	< 1	0.35	< 10	1.53
1440814	5	< 0.2	< 0.5	76	134	66	13	< 2	16	2.56	< 2	< 10	39	< 0.5	< 2	1.87	18	17	3.47	< 10	< 1	0.35	< 10	1.82
1440815	6	< 0.2	< 0.5	82	108	8	10	3	14	2.00	< 2	< 10	29	< 0.5	< 2	2.06	27	11	3.35	< 10	< 1	0.41	< 10	1.34
1440816	< 5	< 0.2	< 0.5	76	157	11	16	< 2	20	2.55	< 2	< 10	44	< 0.5	< 2	1.87	23	16	3.21	< 10	< 1	0.39	< 10	1.98
1440817	8	< 0.2	< 0.5	125	192	7	8	< 2	20	2.95	3	< 10	48	< 0.5	< 2	1.93	18	14	2.93	< 10	< 1	0.26	< 10	1.67
1440818	13	< 0.2	< 0.5	279	306	27	10	< 2	30	2.92	< 2	< 10	51	< 0.5	< 2	2.07	12	17	3.99	< 10	< 1	0.22	< 10	1.97
1440819	26	< 0.2	< 0.5	353	288	4	11	5	29	2.71	< 2	< 10	53	< 0.5	< 2	2.03	15	16	4.36	< 10	< 1	0.41	< 10	1.97
1440820	342	26.8	< 0.5	3790	409	718	14	47	48	0.40	27	< 10	117	< 0.5	< 2	1.34	4	22	1.89	< 10	< 1	0.15	< 10	0.11
1440821	11	< 0.2	< 0.5	381	275	8	16	5	30	2.96	< 2	< 10	58	< 0.5	< 2	1.81	19	20	4.35	< 10	< 1	0.47	< 10	2.07
1440822	16	< 0.2	< 0.5	498	313	< 1	11	< 2	37	3.21	< 2	< 10	57	< 0.5	< 2	2.18	19	17	5.50	10	< 1	0.25	< 10	2.12
1440823	18	< 0.2	< 0.5	422	286	9	11	< 2	31	2.83	4	< 10	55	< 0.5	< 2	2.37	16	18	5.10	< 10	< 1	0.28	< 10	1.94
1440824	< 5	< 0.2	< 0.5	30	600	1	15	9	67	2.12	9	< 10	75	< 0.5	< 2	1.57	16	20	3.81	< 10	< 1	0.11	13	1.14
1440825	11	< 0.2	< 0.5	324	309	4	11	< 2	43	2.92	3	< 10	40	< 0.5	< 2	1.70	12	19	5.03	< 10	< 1	0.34	< 10	2.04
1440826	16	0.2	< 0.5	642	219	24	10	< 2	29	2.60	< 2	< 10	28	< 0.5	< 2	1.94	22	15	4.42	< 10	< 1	0.33	< 10	1.79
1440827	13	< 0.2	< 0.5	685	226	13	12	< 2	25	2.72	2	< 10	34	< 0.5	< 2	2.70	24	14	3.42	< 10	< 1	0.20	< 10	1.72
1440828	13	< 0.2	< 0.5	721	230	13	12	< 2	26	2.81	4	< 10	35	< 0.5	< 2	2.77	24	15	3.53	< 10	< 1	0.21	< 10	1.77
1440829	10	< 0.2	< 0.5	483	241	11	12	< 2	27	2.75	< 2	< 10	42	< 0.5	< 2	2.46	17	15	3.30	< 10	< 1	0.22	< 10	1.77
1440830	11	< 0.2	< 0.5	442	196	9	8	3	22	2.04	3	< 10	54	< 0.5	< 2	1.95	18	15	2.83	< 10	< 1	0.34	< 10	1.28
1440831	14	< 0.2	< 0.5	687	251	13	12	< 2	28	2.64	< 2	< 10	38	< 0.5	< 2	1.87	16	17	3.63	< 10	< 1	0.44	< 10	1.90
1440832	21	0.2	< 0.5	997	237	26	11	< 2	26	2.58	< 2	< 10	47	< 0.5	< 2	1.68	20	18	3.34	< 10	< 1	0.45	< 10	1.87
1440833	38	0.3	< 0.5	1350	204	37	11	< 2	29	2.31	4	< 10	58	< 0.5	< 2	1.53	26	17	3.13	< 10	< 1	0.31	< 10	1.66
1440834	19	< 0.2	< 0.5	900	282	11	13	2	38	2.70	< 2	< 10	59	< 0.5	< 2	1.79	19	19	3.32	< 10	< 1	0.37	< 10	1.89
1440835	16	< 0.2	< 0.5	599	276	7	13	< 2	39	2.55	2	< 10	34	< 0.5	< 2	1.67	17	17	4.04	< 10	< 1	0.30	< 10	1.92
1440836	10	< 0.2	< 0.5	456	218	15	11	< 2	30	2.43	< 2	< 10	49	< 0.5	< 2	1.84	16	18	3.72	< 10	< 1	0.23	< 10	1.61
1440837	15	< 0.2	< 0.5	814	161	43	14	< 2	18	1.96	3	< 10	45	< 0.5	< 2	1.99	23	22	2.98	< 10	< 1	0.35	< 10	1.45
1440838	16	0.3	< 0.5	731	175	18	11	< 2	23	2.44	< 2	< 10	36	< 0.5	< 2	1.64	22	17	3.60	< 10	< 1	0.35	< 10	1.80
1440839	118	0.3	< 0.5	986	166	27	12	3	23	2.96	< 2	< 10	56	< 0.5	< 2	1.82	19	27	3.48	< 10	< 1	0.38	< 10	2.06
1440840	11	< 0.2	< 0.5	600	195	17	10	< 2	21	2.43	< 2	< 10	57	< 0.5	< 2	2.02	14	19	3.26	< 10	< 1	0.30	< 10	1.46
1440841	11	< 0.2	< 0.5	592	167	34	12	< 2	19	2.31	3	< 10	56	< 0.5	< 2	1.86	18	20	2.76	< 10	< 1	0.25	< 10	1.57
1440842	16	< 0.2	< 0.5	800	171	43	10	< 2	19	2.26	< 2	< 10	53	< 0.5	< 2	2.22	13	16	2.68	< 10	< 1	0.26	< 10	1.23
1440843	21	< 0.2	< 0.5	865	192	35	12	< 2	21	2.52	< 2	< 10	68	< 0.5	< 2	2.22	18	18	3.19	< 10	< 1	0.41	< 10	1.33
1440844	366	26.9	< 0.5	3920	421	782	16	43	48	0.44	29	< 10	74	< 0.5	< 2	1.37	4	23	1.95	< 10	2	0.16	< 10	0.11
1440845	8	< 0.2	< 0.5	425	201	14	11	5	25	2.69	< 2	< 10	58	< 0.5	< 2	1.67	18	18	3.86	< 10	< 1	0.48	< 10	1.81
1440846	17	< 0.2	< 0.5	540	209	14	10	7	27	2.51	< 2	< 10	68	< 0.5	< 2	1.99	17	18	3.77	< 10	< 1	0.34	< 10	1.63
1440847	< 5	< 0.2	< 0.5	38	562	1	13	4	61	2.21	< 2	< 10	67	< 0.5	< 2	1.70	15	19	3.53	< 10	< 1	0.12	12	1.12
1440848	7	< 0.2	< 0.5	407	195	5	6	3	21	1.78	< 2	< 10	99	< 0.5	< 2	2.17	11	17	2.13	< 10	< 1	0.35	< 10	0.88
1440849	7	< 0.2	< 0.5	302	157	8	5	2	18	1.60	< 2	< 10	120	0.5	< 2	1.71	9	16	1.84	< 10	< 1	0.32	11	0.61
1440850	11	< 0.2	< 0.5	289	153	9	5	< 2	17	1.61	< 2	< 10	129	0.5	< 2	1.68	9	16	1.80	< 10	< 1	0.33	10	0.61
1440851	11	< 0.2	< 0.5	613	186	6	11	3	24	2.82	6	< 10	76	< 0.5	< 2	1.98	12	17	3.34	< 10	1	0.35	< 10	1.70
1440852	21	0.3	< 0.5	1220	160	19	10	< 2	24	2.43	< 2	< 10	53	< 0.5	< 2	1.68	14	16	3.43	< 10	< 1	0.34	< 10	1.53
1440853	9	< 0.2	< 0.5	562	249	18	5	< 2	24	2.56	< 2	< 10	83	< 0.5	< 2	2.39	16	17	3.20	< 10	< 1	0.44	< 10	1.62
1440854	6	< 0.2	< 0.5	334	242	8	10	< 2	24	2.67	2	< 10	105	< 0.5	< 2	2.14	14	18	3.21	< 10	< 1	0.40	< 10	1.66
1440855	7	< 0.2	< 0.5	443	237	10	9	< 2	23	2.57	5	< 10	83	< 0.5	< 2	1.92	11	17	3.28	< 10	< 1	0.31	< 10	1.60
1440856	6	< 0.2	< 0.5	471	208	6	11	< 2	24	2.70														

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440857	20	< 0.2	< 0.5	1170	188	19	11	3	25	2.64	5	< 10	62	< 0.5	< 2	1.95	17	18	3.42	< 10	1	0.34	< 10	1.68
1440677	35	0.8	< 0.5	1090	895	7	9	2	62	2.23	5	14	17	< 0.5	< 2	5.51	21	4	4.47	< 10	< 1	0.63	< 10	1.20
1440678	16	< 0.2	< 0.5	345	650	3	10	4	45	2.82	7	16	37	< 0.5	< 2	4.15	16	9	3.62	< 10	< 1	0.76	< 10	1.45
1440679	13	< 0.2	< 0.5	353	819	< 1	7	< 2	50	2.87	5	< 10	139	< 0.5	< 2	2.02	18	10	5.18	< 10	< 1	0.31	< 10	2.25
1440680	9	< 0.2	< 0.5	520	583	1	8	< 2	50	3.21	3	< 10	99	< 0.5	< 2	1.62	20	11	4.57	< 10	< 1	0.34	< 10	2.42
1440681	< 5	< 0.2	< 0.5	421	549	< 1	8	< 2	51	3.15	< 2	< 10	98	< 0.5	< 2	1.41	15	11	5.60	< 10	< 1	0.31	< 10	2.33
1440682	26	< 0.2	< 0.5	562	1350	1	10	< 2	113	3.14	< 2	< 10	135	< 0.5	< 2	1.84	17	11	5.54	< 10	< 1	0.45	< 10	2.24
1440683	374	1.0	8.1	873	1100	7	9	14	675	2.82	< 2	< 10	24	< 0.5	< 2	3.00	27	7	5.09	< 10	< 1	0.60	< 10	1.83
1440684	28	0.5	0.9	600	967	2	12	9	181	3.30	2	< 10	44	< 0.5	< 2	1.97	23	10	4.92	< 10	< 1	0.47	< 10	2.24
1440685	7	< 0.2	0.6	365	687	2	9	2	75	3.17	3	< 10	108	< 0.5	< 2	1.77	15	11	5.15	< 10	< 1	0.33	< 10	2.33
1440686	< 5	< 0.2	< 0.5	445	527	< 1	10	< 2	42	3.46	5	< 10	118	< 0.5	< 2	1.95	16	11	6.34	< 10	< 1	0.24	< 10	2.25
1440687	< 5	< 0.2	< 0.5	266	673	< 1	9	2	44	3.20	4	< 10	246	< 0.5	< 2	2.51	12	10	5.47	< 10	< 1	0.30	< 10	2.02
1440688	8	0.3	< 0.5	479	898	5	7	6	69	3.10	< 2	< 10	46	< 0.5	< 2	5.17	17	9	4.44	< 10	< 1	0.58	< 10	1.89
1440689	7	< 0.2	< 0.5	514	825	5	9	6	80	2.82	4	< 10	33	< 0.5	< 2	4.74	16	8	4.34	< 10	< 1	0.49	< 10	1.98
1440690	33	0.4	< 0.5	414	961	9	8	5	63	3.05	5	< 10	35	< 0.5	< 2	5.72	15	8	4.42	< 10	< 1	0.66	< 10	1.70
1440691	30	0.4	< 0.5	268	1210	4	7	6	70	2.80	3	< 10	40	< 0.5	< 2	4.71	17	8	5.00	< 10	< 1	0.37	< 10	1.70
1440692	53	0.4	< 0.5	406	1080	3	13	9	73	2.54	6	< 10	30	< 0.5	< 2	4.95	23	7	5.08	< 10	< 1	0.39	< 10	1.61
1440693	25	0.4	< 0.5	467	912	10	9	7	70	2.36	6	< 10	38	< 0.5	2	5.57	34	6	5.53	< 10	< 1	0.33	< 10	1.38
1440694	29	0.5	< 0.5	826	1060	4	8	< 2	62	2.74	< 2	< 10	27	< 0.5	< 2	4.16	22	7	5.08	< 10	< 1	0.38	< 10	1.90
1440695	15	0.4	< 0.5	927	921	4	10	3	84	2.62	< 2	< 10	36	< 0.5	< 2	2.45	22	9	4.77	< 10	< 1	0.43	< 10	2.02
1440696	18	< 0.2	< 0.5	896	793	3	10	< 2	66	2.65	< 2	< 10	144	< 0.5	< 2	3.31	16	9	5.59	< 10	< 1	0.39	< 10	2.00
1440697	306	28.4	< 0.5	3920	424	776	15	41	47	0.44	29	< 10	95	< 0.5	< 2	1.38	4	23	1.97	< 10	< 1	0.16	< 10	0.12
1440698	27	0.7	< 0.5	1320	807	5	20	5	68	2.60	7	< 10	64	< 0.5	< 2	3.14	18	29	5.66	< 10	< 1	0.15	< 10	2.71
1440699	41	0.9	< 0.5	1680	817	2	19	5	71	2.84	6	< 10	41	< 0.5	< 2	4.49	18	39	5.50	< 10	< 1	0.16	< 10	2.51
1440700	15	0.6	< 0.5	1430	621	3	19	3	47	2.89	< 2	< 10	39	< 0.5	< 2	3.60	22	26	5.29	< 10	< 1	0.16	< 10	2.49

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440701	0.071	0.116	1.23	< 2	13	40	0.26	< 1	< 2	< 10	258	< 10	9	8	
1440702	0.242	0.087	< 0.01	4	7	86	0.31	2	< 2	< 10	99	< 10	12	23	
1440703	0.056	0.096	2.72	3	9	42	0.19	< 1	< 2	< 10	187	< 10	9	7	
1440704	0.070	0.127	1.16	2	14	44	0.22	< 1	< 2	< 10	242	< 10	11	9	
1440705	0.062	0.096	1.90	3	10	44	0.19	2	< 2	< 10	195	< 10	9	6	
1440706	0.056	0.113	1.74	3	10	67	0.26	7	< 2	< 10	222	< 10	9	7	
1440707	0.080	0.116	1.05	3	11	45	0.26	2	< 2	< 10	240	< 10	9	9	
1440708	0.071	0.114	0.68	3	8	66	0.24	< 1	< 2	< 10	211	< 10	7	10	
1440709	0.069	0.106	0.93	2	9	75	0.25	7	2	< 10	214	< 10	7	9	
1440710	0.074	0.110	0.91	3	10	74	0.26	9	< 2	< 10	217	< 10	8	9	
1440711	0.066	0.126	0.80	< 2	12	51	0.25	1	< 2	< 10	256	< 10	9	8	
1440712	0.074	0.126	0.95	2	10	66	0.23	2	< 2	< 10	236	< 10	8	8	
1440713	0.104	0.127	0.92	< 2	11	86	0.26	< 1	< 2	< 10	255	< 10	9	6	
1440714	0.150	0.115	1.03	2	7	235	0.23	4	< 2	< 10	235	< 10	7	5	
1440715	0.093	0.117	1.71	2	7	192	0.24	< 1	< 2	< 10	219	< 10	7	5	
1440716	0.115	0.116	1.15	3	9	190	0.25	1	< 2	< 10	234	< 10	8	6	
1440717	0.119	0.121	0.82	< 2	6	153	0.22	< 1	< 2	< 10	205	< 10	6	7	
1440718	0.063	0.123	0.90	3	10	122	0.24	2	< 2	< 10	216	< 10	8	6	
1440719	0.055	0.127	0.81	< 2	10	119	0.23	11	< 2	< 10	222	< 10	9	6	
1440720	0.040	0.114	1.53	2	10	84	0.26	2	< 2	< 10	184	< 10	10	5	
1440721	0.043	0.108	1.84	< 2	9	81	0.26	7	< 2	< 10	190	< 10	7	6	
1440722	0.037	0.047	0.56	62	< 1	174	< 0.01	< 1	< 2	< 10	13	< 10	4	2	
1440723	0.041	0.132	0.98	4	8	121	0.25	< 1	< 2	< 10	234	< 10	7	7	
1440724	0.047	0.125	1.06	3	7	159	0.24	1	< 2	< 10	212	< 10	7	6	
1440725	0.040	0.117	1.49	< 2	8	116	0.23	< 1	< 2	< 10	193	< 10	7	5	
1440726	0.193	0.088	0.01	2	7	76	0.30	3	< 2	< 10	96	< 10	12	22	
1440727	0.039	0.132	1.36	< 2	7	126	0.25	4	< 2	< 10	201	< 10	7	5	
1440728	0.040	0.119	1.98	3	8	147	0.28	6	< 2	< 10	208	< 10	8	4	
1440729	0.040	0.115	2.14	3	7	84	0.29	2	< 2	< 10	190	< 10	7	5	
1440730	0.041	0.106	1.11	3	8	161	0.24	6	< 2	< 10	197	< 10	6	5	
1440731	0.040	0.105	1.13	3	8	160	0.24	7	< 2	< 10	199	< 10	6	5	
1440732	0.059	0.118	0.95	3	6	149	0.24	< 1	< 2	< 10	199	< 10	6	7	
1440733	0.047	0.112	1.06	< 2	9	134	0.24	< 1	< 2	< 10	213	< 10	7	7	
1440734	0.052	0.111	1.71	3	11	123	0.26	< 1	< 2	< 10	222	< 10	7	6	
1440735	0.033	0.092	2.51	3	5	80	0.22	3	< 2	< 10	153	< 10	5	5	
1440736	0.038	0.114	2.08	2	5	114	0.26	4	< 2	< 10	157	< 10	5	7	
1440737	0.039	0.110	1.59	3	9	85	0.22	< 1	< 2	< 10	166	< 10	7	9	
1440738	0.039	0.109	1.82	< 2	6	68	0.12	< 1	< 2	< 10	132	< 10	8	4	
1440739	0.051	0.110	1.68	< 2	5	52	0.17	4	< 2	< 10	116	< 10	7	5	
1440740	0.040	0.117	1.21	< 2	9	79	0.20	< 1	< 2	< 10	158	< 10	9	4	
1440741	0.045	0.128	2.24	2	12	61	0.28	2	< 2	< 10	206	< 10	10	4	
1440742	0.060	0.110	4.32	4	11	60	0.17	12	< 2	< 10	182	< 10	7	5	
1440743	0.028	0.120	3.40	4	12	55	0.19	2	< 2	< 10	197	< 10	6	6	
1440744	0.015	0.069	9.54	6	5	57	0.05	109	< 2	< 10	81	< 10	5	6	0.642
1440745	0.038	0.119	2.19	< 2	5	54	0.10	6	< 2	< 10	119	< 10	5	4	
1440746	0.038	0.120	2.08	< 2	4	42	0.06	2	< 2	< 10	99	< 10	6	3	
1440747	0.036	0.047	0.56	60	< 1	175	< 0.01	7	< 2	< 10	12	< 10	4	2	
1440748	0.048	0.119	2.11	< 2	5	60	0.10	< 1	< 2	< 10	121	< 10	6	3	
1440749	0.046	0.118	1.75	< 2	5	51	0.07	< 1	< 2	< 10	122	< 10	6	3	
1440750	0.203	0.087	0.02	3	6	70	0.31	2	< 2	< 10	100	< 10	12	23	
1440751	0.060	0.119	1.84	< 2	5	39	0.12	< 1	< 2	< 10	132	< 10	6	4	
1440752	0.047	0.100	1.84	2	6	65	0.09	< 1	< 2	< 10	125	< 10	5	3	

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440753	0.039	0.104	2.06	< 2	4	85	0.04	< 1	< 2	< 10	101	< 10	5	3	
1440754	0.030	0.102	2.06	< 2	5	87	< 0.01	< 1	< 2	< 10	99	< 10	5	3	
1440755	0.043	0.096	1.86	3	8	105	0.04	< 1	< 2	< 10	138	< 10	6	4	
1440756	0.049	0.092	1.76	3	9	86	0.06	< 1	< 2	< 10	153	< 10	7	4	
1440757	0.056	0.099	1.48	2	10	79	0.05	< 1	< 2	< 10	172	< 10	8	5	
1440758	0.056	0.097	1.96	2	9	79	0.06	< 1	< 2	< 10	165	< 10	7	5	
1440759	0.055	0.098	1.97	3	10	78	0.06	< 1	< 2	< 10	162	< 10	7	5	
1440760	0.080	0.101	2.87	2	10	97	0.12	3	< 2	< 10	165	< 10	8	7	
1440761	0.074	0.112	2.14	2	15	95	0.18	< 1	< 2	< 10	269	< 10	7	7	
1440762	0.056	0.102	2.72	5	11	107	0.14	4	< 2	< 10	211	< 10	6	6	
1440763	0.051	0.093	2.10	< 2	15	110	0.11	7	2	< 10	215	< 10	8	7	
1440764	0.061	0.118	4.32	3	14	97	0.14	1	< 2	< 10	250	< 10	8	6	
1440765	0.061	0.115	3.10	3	13	102	0.14	< 1	< 2	< 10	239	< 10	8	6	
1440766	0.056	0.107	1.06	3	14	85	0.13	< 1	< 2	< 10	230	< 10	8	6	
1440767	0.063	0.116	2.13	< 2	8	71	0.02	< 1	< 2	< 10	157	< 10	8	5	
1440768	0.034	0.083	2.05	< 2	6	90	0.02	5	3	< 10	104	< 10	6	4	
1440769	0.041	0.091	1.14	3	7	88	0.04	< 1	< 2	< 10	115	< 10	6	4	
1440770	0.036	0.045	0.55	61	< 1	168	< 0.01	4	< 2	< 10	12	< 10	3	2	
1440771	0.049	0.102	1.15	< 2	8	71	0.13	5	< 2	< 10	144	< 10	6	5	
1440772	0.061	0.091	2.24	< 2	8	70	0.16	< 1	< 2	< 10	141	< 10	6	6	
1440773	0.187	0.085	0.01	2	6	65	0.30	3	< 2	< 10	95	< 10	12	22	
1440774	0.116	0.105	1.10	< 2	9	100	0.19	< 1	< 2	< 10	164	< 10	7	7	
1440775	0.063	0.113	0.96	< 2	9	64	0.18	6	2	< 10	166	< 10	7	7	
1440776	0.063	0.114	0.98	3	9	67	0.18	< 1	< 2	< 10	172	< 10	7	7	
1440777	0.094	0.109	2.00	< 2	9	86	0.18	3	< 2	< 10	160	< 10	7	7	
1440778	0.068	0.100	3.90	2	8	52	0.15	6	< 2	< 10	141	< 10	8	8	
1440779	0.076	0.099	2.97	< 2	7	55	0.12	1	< 2	< 10	119	< 10	8	7	
1440780	0.067	0.101	2.15	3	8	67	0.16	4	< 2	< 10	143	< 10	7	6	
1440781	0.095	0.108	2.90	3	10	63	0.17	8	< 2	< 10	158	< 10	8	7	
1440782	0.122	0.128	3.38	< 2	9	60	0.13	< 1	< 2	< 10	151	< 10	8	7	
1440783	0.091	0.147	3.72	2	6	52	0.05	2	< 2	< 10	111	< 10	9	8	
1440784	0.076	0.105	2.74	< 2	8	53	0.14	2	< 2	< 10	138	< 10	8	8	
1440785	0.083	0.095	2.42	< 2	9	61	0.17	4	< 2	< 10	157	< 10	8	9	
1440786	0.058	0.075	1.61	< 2	6	62	0.10	< 1	< 2	< 10	105	< 10	5	4	
1440787	0.066	0.108	2.13	< 2	12	54	0.25	< 1	< 2	< 10	195	< 10	9	7	
1440788	0.101	0.107	2.15	< 2	9	64	0.21	5	< 2	< 10	165	< 10	9	7	
1440789	0.085	0.106	2.02	< 2	10	59	0.22	3	< 2	< 10	174	< 10	9	6	
1440790	0.077	0.107	2.73	< 2	8	49	0.16	< 1	< 2	< 10	125	< 10	9	8	
1440791	0.090	0.117	2.59	< 2	8	46	0.16	< 1	< 2	< 10	127	< 10	10	9	
1440792	0.071	0.130	3.32	2	8	42	0.17	1	< 2	< 10	110	< 10	9	10	
1440793	0.096	0.109	3.36	< 2	8	61	0.17	< 1	< 2	< 10	130	< 10	10	10	
1440794	0.101	0.112	3.10	< 2	9	66	0.18	< 1	< 2	< 10	146	< 10	9	10	
1440795	0.036	0.047	0.57	60	< 1	175	< 0.01	8	< 2	< 10	12	< 10	4	2	
1440796	0.070	0.126	0.99	2	6	70	0.17	< 1	< 2	< 10	93	< 10	13	8	
1440797	0.065	0.124	0.02	3	4	48	0.17	< 1	< 2	< 10	57	< 10	14	9	
1440798	0.144	0.089	< 0.01	3	6	53	0.29	< 1	< 2	< 10	93	< 10	14	22	
1440799	0.055	0.133	0.04	< 2	5	48	0.17	3	< 2	< 10	67	< 10	16	10	
1440800	0.045	0.121	0.04	2	5	34	0.15	< 1	< 2	< 10	61	< 10	13	9	
1440801	0.098	0.129	0.78	3	8	49	0.20	3	< 2	< 10	107	< 10	11	8	
1440802	0.116	0.117	1.63	< 2	10	80	0.20	< 1	< 2	< 10	165	< 10	8	7	
1440803	0.089	0.120	1.94	2	9	79	0.21	3	< 2	< 10	167	< 10	7	7	
1440804	0.091	0.116	2.06	< 2	9	65	0.21	2	< 2	< 10	162	< 10	8	7	

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440805	0.074	0.118	3.35	3	7	65	0.12	6	<2	<10	140	<10	8	6	
1440806	0.127	0.109	2.14	4	9	71	0.19	2	<2	<10	165	<10	8	7	
1440807	0.115	0.096	1.90	<2	9	84	0.19	23	<2	<10	157	<10	7	6	
1440808	0.061	0.116	1.47	2	8	51	0.19	4	<2	<10	148	<10	8	6	
1440809	0.121	0.117	1.71	<2	10	108	0.21	6	<2	<10	179	<10	8	6	
1440810	0.079	0.097	2.47	2	10	50	0.21	3	<2	<10	174	<10	7	7	
1440811	0.086	0.081	2.56	3	11	61	0.18	1	<2	<10	168	<10	8	8	
1440812	0.081	0.111	2.22	2	8	53	0.14	<1	<2	<10	129	<10	9	8	
1440813	0.069	0.121	2.62	3	7	59	0.17	<1	<2	<10	115	<10	9	9	
1440814	0.076	0.117	2.48	<2	8	56	0.18	3	<2	<10	135	<10	9	8	
1440815	0.053	0.114	2.70	<2	6	43	0.15	<1	<2	<10	97	<10	10	10	
1440816	0.071	0.120	2.04	<2	8	70	0.17	3	<2	<10	127	<10	10	7	
1440817	0.082	0.098	1.70	2	8	159	0.13	<1	<2	<10	141	<10	7	6	
1440818	0.090	0.106	1.48	<2	9	62	0.22	<1	<2	<10	165	<10	7	6	
1440819	0.137	0.114	2.05	<2	9	100	0.20	<1	<2	<10	157	<10	8	6	
1440820	0.035	0.045	0.54	56	<1	172	<0.01	<1	<2	<10	12	<10	3	2	
1440821	0.142	0.117	1.76	<2	10	208	0.22	5	<2	<10	186	<10	8	5	
1440822	0.124	0.126	1.46	3	10	93	0.23	<1	<2	<10	186	<10	8	7	
1440823	0.104	0.126	1.85	3	9	64	0.22	9	<2	<10	163	<10	8	6	
1440824	0.169	0.085	0.01	6	7	60	0.29	<1	<2	<10	95	<10	13	18	
1440825	0.126	0.116	1.35	2	10	91	0.22	2	<2	<10	173	<10	8	6	
1440826	0.137	0.098	2.35	2	9	67	0.19	2	<2	<10	154	<10	8	6	
1440827	0.079	0.109	1.51	<2	7	66	0.15	<1	<2	<10	143	<10	8	5	
1440828	0.081	0.114	1.57	3	7	68	0.16	4	<2	<10	149	<10	8	5	
1440829	0.111	0.105	1.33	<2	8	78	0.20	6	<2	<10	145	<10	7	5	
1440830	0.128	0.092	1.26	<2	7	55	0.18	<1	<2	<10	119	<10	8	8	
1440831	0.145	0.111	1.49	<2	10	69	0.21	<1	<2	<10	167	<10	8	7	
1440832	0.169	0.104	1.34	2	10	72	0.22	1	<2	<10	169	<10	8	5	
1440833	0.156	0.116	1.34	<2	10	62	0.22	2	4	<10	157	<10	9	7	
1440834	0.174	0.104	1.12	<2	10	73	0.22	<1	<2	<10	170	<10	8	6	
1440835	0.141	0.108	1.77	<2	10	65	0.22	2	<2	<10	160	<10	8	6	
1440836	0.150	0.105	1.40	<2	8	66	0.21	<1	<2	<10	146	<10	8	7	
1440837	0.136	0.102	1.50	<2	8	44	0.09	1	2	<10	132	<10	9	6	
1440838	0.153	0.111	1.99	<2	10	87	0.20	6	<2	<10	166	<10	9	7	
1440839	0.191	0.108	1.33	<2	11	301	0.24	6	<2	<10	185	<10	9	7	
1440840	0.161	0.094	1.07	<2	8	78	0.19	10	<2	<10	139	<10	8	8	
1440841	0.159	0.099	1.03	<2	9	69	0.20	3	<2	<10	162	<10	8	6	
1440842	0.184	0.107	1.08	2	6	72	0.21	3	<2	<10	140	<10	8	7	
1440843	0.208	0.100	0.99	<2	7	99	0.21	3	2	<10	146	<10	9	7	
1440844	0.037	0.047	0.56	60	<1	177	<0.01	4	<2	<10	13	<10	4	2	
1440845	0.202	0.107	1.03	3	10	101	0.23	<1	<2	<10	164	<10	9	6	
1440846	0.150	0.104	0.84	2	9	83	0.22	<1	<2	<10	156	<10	9	6	
1440847	0.253	0.082	0.01	4	7	86	0.29	4	<2	<10	91	<10	12	18	
1440848	0.124	0.074	0.52	<2	5	53	0.17	4	<2	<10	91	<10	7	11	
1440849	0.116	0.064	0.42	<2	4	42	0.16	5	<2	<10	80	<10	6	13	
1440850	0.125	0.064	0.40	<2	4	42	0.15	<1	<2	<10	81	<10	6	12	
1440851	0.191	0.106	0.80	<2	8	165	0.23	2	<2	<10	170	<10	7	6	
1440852	0.183	0.109	1.13	<2	6	184	0.21	4	<2	<10	150	<10	7	6	
1440853	0.163	0.105	0.65	3	8	110	0.20	<1	<2	<10	144	<10	10	5	
1440854	0.194	0.104	0.60	<2	9	128	0.22	<1	<2	<10	149	<10	9	6	
1440855	0.200	0.102	0.40	2	8	107	0.22	2	<2	<10	157	<10	8	5	
1440856	0.171	0.103	0.52	<2	10	88	0.22	<1	<2	<10	163	<10	9	5	

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440857	0.188	0.105	1.02	< 2	9	138	0.24	7	< 2	< 10	170	< 10	9	6	
1440677	0.018	0.123	2.85	3	6	72	< 0.01	6	< 2	< 10	70	< 10	9	7	
1440678	0.043	0.117	0.99	2	8	56	0.05	< 1	< 2	< 10	142	< 10	11	9	
1440679	0.100	0.126	0.33	3	14	38	0.25	5	< 2	< 10	262	< 10	13	11	
1440680	0.111	0.126	0.45	< 2	13	45	0.25	5	< 2	< 10	258	< 10	11	11	
1440681	0.118	0.123	0.40	3	13	55	0.25	1	< 2	< 10	275	< 10	10	13	
1440682	0.107	0.121	0.35	2	12	65	0.21	2	< 2	< 10	254	< 10	10	13	
1440683	0.061	0.114	1.98	2	8	32	0.13	< 1	< 2	< 10	164	< 10	10	12	
1440684	0.086	0.123	0.96	2	10	49	0.21	3	< 2	< 10	229	< 10	10	13	
1440685	0.113	0.118	0.36	< 2	13	66	0.27	5	< 2	< 10	271	< 10	10	13	
1440686	0.191	0.128	0.15	3	14	151	0.25	< 1	< 2	< 10	274	< 10	11	14	
1440687	0.143	0.125	0.08	3	11	87	0.21	3	< 2	< 10	251	< 10	10	12	
1440688	0.068	0.145	1.31	3	6	55	0.07	< 1	< 2	< 10	148	< 10	10	11	
1440689	0.055	0.119	1.54	2	6	39	0.09	< 1	< 2	< 10	138	< 10	10	11	
1440690	0.055	0.119	1.66	< 2	6	52	0.06	< 1	< 2	< 10	136	< 10	10	9	
1440691	0.127	0.118	1.50	3	6	92	0.04	< 1	< 2	< 10	150	< 10	9	9	
1440692	0.049	0.113	2.25	4	5	50	0.02	< 1	< 2	< 10	109	< 10	10	9	
1440693	0.035	0.115	3.57	3	5	48	0.01	3	< 2	< 10	103	< 10	9	9	
1440694	0.050	0.123	1.85	3	6	75	0.02	< 1	< 2	< 10	129	< 10	9	9	
1440695	0.048	0.125	1.21	4	6	41	< 0.01	< 1	< 2	< 10	157	< 10	10	8	
1440696	0.039	0.122	0.31	< 2	6	48	< 0.01	< 1	< 2	< 10	162	< 10	11	7	
1440697	0.038	0.047	0.56	61	< 1	173	< 0.01	4	< 2	< 10	13	< 10	4	2	
1440698	0.072	0.105	0.66	3	15	49	0.24	2	< 2	< 10	253	< 10	10	10	
1440699	0.056	0.105	1.47	4	13	60	0.20	< 1	< 2	< 10	228	< 10	9	9	
1440700	0.058	0.111	0.80	3	14	57	0.25	< 1	< 2	< 10	241	< 10	11	10	

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Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		27.7	2.7	1170	799	14	21	602	688	0.33	337	11	176	0.8	1340	0.71	8	6	20.8	< 10	< 1	0.03	< 10	0.12
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-1 Meas		28.4	2.7	1210	790	12	24	619	713	0.34	330	< 10	240	0.8	1360	0.72	8	6	20.6	< 10	< 1	0.03	< 10	0.13
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-4 Meas		3.4	< 0.5	6430	143	314	37	43	65	2.96	99	< 10	40	1.5	23	0.85	14	52	2.94	< 10	< 1	1.64	41	1.58
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-4 Meas		3.5	< 0.5	6620	140	315	37	45	69	3.00	102	< 10	39	1.5	19	0.85	14	53	2.92	< 10	< 1	1.61	39	1.57
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-6 Meas		0.2	0.7	80	1070	2	23	103	127	7.74	240	< 10	802	0.9	< 2	0.11	14	85	5.99	10	2	0.99	< 10	0.38
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
GXR-6 Meas		0.2	0.5	80	1050	2	26	104	128	7.67	247	< 10	780	0.9	< 2	0.12	16	85	5.87	10	3	0.96	< 10	0.38
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
PTC-1a Meas																								
PTC-1a Cert																								
MP-1b Meas																								
MP-1b Cert																								
SAR-M (U.S.G.S.) Meas		3.2	5.0	346	4170	13	43	1100	999	1.05	35		189	1.1	< 2	0.30	11	98	2.73	< 10		0.21	51	0.35
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
SAR-M (U.S.G.S.) Meas		3.4	5.4	352	4260	13	41	1120	1040	1.06	40		194	1.1	< 2	0.30	11	102	2.75	< 10		0.21	51	0.35
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
CCu-1d Meas																								
CCu-1d Cert																								
CZN-4 Meas																								
CZN-4 Cert																								
SE58 Meas	588																							
SE58 Cert	607.00																							
SE58 Meas	591																							
SE58 Cert	607.00																							
SE58 Meas	602																							
SE58 Cert	607.00																							
SE58 Meas	592																							
SE58 Cert	607.00																							
SE58 Meas	659																							
SE58 Cert	607.00																							
SF57 Meas	814																							
SF57 Cert	848.000																							
SF57 Meas	845																							
SF57 Cert	848.000																							
SF57 Meas	757																							
SF57 Cert	848.000																							
SF57 Meas	754																							
SF57 Cert	848.000																							
SF57 Meas	785																							
SF57 Cert	848.000																							
SF57 Meas	851																							
SF57 Cert	848.000																							
SF57 Meas	844																							
SF57 Cert	848.000																							
SF57 Meas	742																							
SF57 Cert	848.000																							
1440708 Orig	17																							
1440708 Dup	17																							
1440713 Orig		0.6	< 0.5	805	622	1	13	< 2	59	3.24	4	16	63	< 0.5	< 2	2.56	21	15	4.84	< 10	< 1	0.19	< 10	2.48
1440713 Dup		0.5	0.6	850	639	2	14	< 2	60	3.39	< 2	17	64	< 0.5	< 2	2.61	22	15	5.14	< 10	< 1	0.20	< 10	2.59
1440723 Orig	11																							
1440723 Dup	11																							
1440727 Orig		< 0.2	< 0.5	511	695	< 1	16	< 2	61	3.18	2	< 10	38	< 0.5	< 2	3.51	19	23	4.66	< 10	< 1	0.09	< 10	2.38

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Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440727 Dup		0.2	< 0.5	527	704	< 1	17	< 2	64	3.23	< 2	< 10	37	< 0.5	< 2	3.54	20	23	4.66	< 10	< 1	0.09	< 10	2.36
1440732 Orig	13	< 0.2	< 0.5	267	629	< 1	16	< 2	40	3.25	13	180	42	< 0.5	< 2	3.83	18	23	4.38	< 10	< 1	0.10	< 10	2.00
1440732 Split	15	< 0.2	< 0.5	258	614	< 1	16	< 2	41	3.18	9	172	42	< 0.5	< 2	3.78	18	23	4.32	< 10	< 1	0.10	< 10	1.95
1440740 Orig		< 0.2	< 0.5	170	414	2	16	< 2	35	3.55	6	< 10	58	< 0.5	< 2	3.13	19	26	4.16	< 10	< 1	0.24	< 10	2.10
1440740 Dup		< 0.2	< 0.5	170	412	2	16	< 2	35	3.51	< 2	< 10	59	< 0.5	< 2	3.12	19	25	4.13	< 10	< 1	0.24	< 10	2.08
1440742 Dup	1310																							
1440744 Orig	1870																							
1440744 Dup	1800																							
1440750 Orig	< 5	< 0.2	< 0.5	36	518	< 1	15	5	67	2.02	< 2	< 10	62	< 0.5	< 2	1.42	15	20	3.65	< 10	< 1	0.10	13	1.14
1440750 Split	< 5	< 0.2	< 0.5	35	516	< 1	13	< 2	65	2.11	< 2	< 10	68	< 0.5	< 2	1.44	16	20	3.64	< 10	< 1	0.11	13	1.15
1440754 Orig		< 0.2	< 0.5	48	399	2	17	2	35	3.62	11	< 10	36	< 0.5	3	3.50	15	24	3.95	< 10	< 1	0.23	< 10	1.94
1440754 Dup		< 0.2	< 0.5	44	384	2	16	5	34	3.46	12	< 10	38	< 0.5	4	3.38	15	24	3.74	< 10	< 1	0.22	< 10	1.85
1440759 Orig	12																							
1440759 Dup	13																							
1440760 Orig	22	0.3	< 0.5	682	310	24	14	< 2	34	3.37	5	< 10	25	< 0.5	< 2	2.85	33	17	5.28	< 10	< 1	0.18	< 10	2.00
1440760 Split	29	0.3	< 0.5	566	278	21	12	< 2	35	2.93	2	< 10	16	< 0.5	< 2	2.55	31	16	4.59	< 10	< 1	0.16	< 10	1.76
1440777 Orig		< 0.2	< 0.5	306	258	12	12	< 2	30	3.27	5	< 10	44	< 0.5	< 2	2.28	14	19	4.95	< 10	< 1	0.18	< 10	1.97
1440777 Dup		< 0.2	< 0.5	312	262	12	12	< 2	30	3.27	3	< 10	44	< 0.5	< 2	2.29	15	19	4.98	10	< 1	0.18	< 10	1.98
1440780 Orig	20																							
1440780 Dup	18																							
1440790 Orig	13	< 0.2	< 0.5	315	176	56	11	< 2	20	2.20	4	< 10	39	< 0.5	< 2	2.29	22	15	4.11	< 10	< 1	0.28	< 10	1.61
1440790 Split	14	< 0.2	< 0.5	316	175	56	11	< 2	19	2.18	3	< 10	31	< 0.5	< 2	2.27	22	15	4.06	< 10	< 1	0.28	< 10	1.57
1440791 Orig		< 0.2	< 0.5	323	147	18	8	3	15	2.14	6	< 10	45	< 0.5	< 2	2.07	21	14	3.71	< 10	2	0.35	< 10	1.64
1440791 Dup		< 0.2	< 0.5	327	148	18	12	6	15	2.17	2	< 10	46	< 0.5	< 2	2.07	21	14	3.72	< 10	< 1	0.35	< 10	1.65
1440802 Orig	13	0.2	< 0.5	387	331	9	11	7	30	2.67	3	< 10	55	< 0.5	< 2	1.65	20	17	5.16	< 10	< 1	0.30	< 10	1.94
1440802 Split	14	< 0.2	< 0.5	369	279	8	12	< 2	27	2.58	< 2	< 10	34	< 0.5	< 2	1.56	20	16	4.63	< 10	< 1	0.29	< 10	1.83
1440804 Orig		0.2	< 0.5	430	282	5	10	< 2	30	2.97	< 2	< 10	43	< 0.5	< 2	1.90	14	17	4.42	10	< 1	0.25	< 10	2.08
1440804 Dup		< 0.2	< 0.5	446	286	5	10	< 2	30	3.01	< 2	< 10	43	< 0.5	< 2	1.95	15	17	4.49	< 10	< 1	0.26	< 10	2.11
1440816 Orig	< 5																							
1440816 Dup	< 5																							
1440818 Orig		< 0.2	< 0.5	286	311	27	11	< 2	30	2.97	< 2	< 10	51	< 0.5	< 2	2.09	12	17	4.07	< 10	< 1	0.23	< 10	2.01
1440818 Dup		< 0.2	< 0.5	272	301	27	10	< 2	30	2.87	< 2	< 10	51	< 0.5	< 2	2.04	12	16	3.91	< 10	< 1	0.22	< 10	1.92
1440821 Orig	11	< 0.2	< 0.5	381	275	8	16	5	30	2.96	< 2	< 10	58	< 0.5	< 2	1.81	19	20	4.35	< 10	< 1	0.47	< 10	2.07
1440821 Split	10	< 0.2	< 0.5	371	275	4	12	< 2	29	3.01	5	< 10	45	< 0.5	< 2	1.81	19	20	4.37	< 10	< 1	0.48	< 10	2.08
1440831 Orig	13																							
1440831 Dup	15																							
1440836 Orig		< 0.2	< 0.5	461	219	15	11	< 2	30	2.44	< 2	< 10	48	< 0.5	< 2	1.86	16	18	3.72	< 10	< 1	0.24	< 10	1.63
1440836 Dup		< 0.2	< 0.5	452	217	15	10	6	30	2.43	< 2	< 10	50	< 0.5	< 2	1.82	16	18	3.72	< 10	< 1	0.23	< 10	1.60
1440850 Orig		< 0.2	< 0.5	280	153	8	5	< 2	17	1.60	< 2	< 10	126	0.5	< 2	1.68	9	16	1.81	< 10	< 1	0.33	10	0.61
1440850 Dup		< 0.2	< 0.5	298	153	9	5	3	18	1.62	< 2	< 10	132	0.5	< 2	1.67	9	16	1.80	< 10	< 1	0.34	10	0.61
1440852 Orig	21	0.3	< 0.5	1220	160	19	10	< 2	24	2.43	< 2	< 10	53	< 0.5	< 2	1.68	14	16	3.43	< 10	< 1	0.34	< 10	1.53
1440852 Split	21	0.3	< 0.5	1120	163	19	12	< 2	23	2.44	8	< 10	63	< 0.5	< 2	1.67	14	15	3.40	< 10	< 1	0.35	< 10	1.53
1440852 Dup	21																							
1440852 Split	21																							
1440682 Orig		< 0.2	< 0.5	563	1340	1	9	< 2	113	3.10	< 2	< 10	133	< 0.5	< 2	1.83	17	11	5.53	< 10	< 1	0.45	< 10	2.24
1440682 Dup		0.3	< 0.5	560	1350	1	10	3	113	3.19	3	< 10	136	< 0.5	< 2	1.85	16	12	5.55	< 10	< 1	0.46	< 10	2.24
1440686 Orig	5																							
1440686 Dup	< 5																							
1440696 Orig		0.2	< 0.5	887	787	3	11	6	65	2.63	3	< 10	147	< 0.5	2	3.26	16	10	5.56	< 10	< 1	0.39	< 10	2.00
1440696 Dup		< 0.2	< 0.5	905	799	3	9	< 2	67	2.68	< 2	< 10	141	< 0.5	< 2	3.37	17	9	5.61	< 10	< 1	0.40	< 10	2.00
1440699 Orig	41	0.9	< 0.5	1680	817	2	19	5	71	2.84	6	< 10	41	< 0.5	< 2	4.49	18	39	5.50	< 10	< 1	0.16	< 10	2.51
1440699 Split	48	1.0	0.6	1670	826	2	19	5	71	2.79	10	< 10	54	< 0.5	< 2	4.51	18	39	5.53	< 10	< 1	0.16	< 10	2.54
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 5																							

Quality Control																									
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
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Activation Laboratories Ltd. Report: A13-08000 (i)

Quality Control																
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
GXR-1 Meas	0.038	0.034	0.15	72	< 1	124		10	< 2	31	78	132	22	17		
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0		
GXR-1 Meas	0.041	0.034	0.15	68	< 1	126		12	< 2	33	74	124	22	17		
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0		
GXR-4 Meas	0.118	0.118	1.45	4	5	71		3	6	< 10	84	21	10	13		
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186		
GXR-4 Meas	0.116	0.117	1.54	2	5	72		5	< 2	< 10	84	21	10	13		
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186		
GXR-6 Meas	0.067	0.034	0.01	3	14	24		< 1	< 2	< 10	181	< 10	4	15		
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	0.066	0.034	0.01	3	14	25		< 1	< 2	< 10	182	< 10	4	13		
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
PTC-1a Meas																13.5
PTC-1a Cert																13.51
MP-1b Meas																3.01
MP-1b Cert																3.069
SAR-M (U.S.G.S.) Meas	0.028	0.066		5	3	29	0.05	5	< 2	< 10	35	< 10	21			
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00			
SAR-M (U.S.G.S.) Meas	0.028	0.068		5	3	31	0.05	1	< 2	< 10	35	< 10	22			
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00			
CCu-1d Meas																23.9
CCu-1d Cert																23.93
CZN-4 Meas																0.399
CZN-4 Cert																0.403
SE58 Meas																
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1440708 Orig																
1440708 Dup																
1440713 Orig	0.102	0.126	0.91	< 2	11	84	0.26	< 1	< 2	< 10	250	< 10	8	6		
1440713 Dup	0.107	0.129	0.94	4	11	88	0.27	2	4	< 10	260	< 10	9	6		
1440723 Orig																
1440723 Dup																
1440727 Orig	0.039	0.132	1.35	< 2	7	125	0.24	4	< 2	< 10	199	< 10	7	5		

Activation Laboratories Ltd. Report: A13-08000 (i)

Quality Control															
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440727 Dup	0.040	0.132	1.38	3	7	127	0.25	3	<2	<10	202	<10	8	5	
1440732 Orig	0.059	0.118	0.95	3	6	149	0.24	<1	<2	<10	199	<10	6	7	
1440732 Split	0.060	0.113	1.00	<2	6	148	0.23	<1	<2	<10	194	<10	6	6	
1440740 Orig	0.040	0.118	1.21	<2	9	80	0.20	2	<2	<10	159	<10	9	4	
1440740 Dup	0.040	0.116	1.21	<2	9	78	0.19	<1	<2	<10	157	<10	9	4	
1440742 Dup															
1440744 Orig															0.641
1440744 Dup															0.642
1440750 Orig	0.203	0.087	0.02	3	6	70	0.31	2	<2	<10	100	<10	12	23	
1440750 Split	0.226	0.088	0.02	3	6	75	0.31	2	<2	<10	97	<10	12	17	
1440754 Orig	0.030	0.105	2.13	<2	5	90	<0.01	<1	<2	<10	102	<10	6	3	
1440754 Dup	0.029	0.100	1.99	3	5	84	<0.01	8	<2	<10	97	<10	5	2	
1440759 Orig															
1440759 Dup															
1440760 Orig	0.080	0.101	2.87	2	10	97	0.12	3	<2	<10	165	<10	8	7	
1440760 Split	0.072	0.087	2.45	<2	9	85	0.10	<1	<2	<10	147	<10	7	6	
1440777 Orig	0.093	0.108	2.01	2	9	86	0.18	3	<2	<10	159	<10	7	7	
1440777 Dup	0.094	0.110	1.99	<2	9	86	0.18	3	<2	<10	160	<10	7	7	
1440780 Orig															
1440780 Dup															
1440790 Orig	0.077	0.107	2.73	<2	8	49	0.16	<1	<2	<10	125	<10	9	8	
1440790 Split	0.076	0.105	2.67	2	8	50	0.16	3	<2	<10	126	<10	9	8	
1440791 Orig	0.090	0.117	2.62	<2	8	45	0.16	2	<2	<10	128	<10	10	9	
1440791 Dup	0.091	0.116	2.56	<2	8	46	0.16	<1	<2	<10	125	<10	10	9	
1440802 Orig	0.116	0.117	1.63	<2	10	80	0.20	<1	<2	<10	165	<10	8	7	
1440802 Split	0.113	0.108	1.83	3	9	70	0.18	5	<2	<10	152	<10	7	7	
1440804 Orig	0.090	0.116	2.05	<2	9	65	0.21	2	<2	<10	161	<10	8	7	
1440804 Dup	0.093	0.116	2.07	2	9	65	0.21	2	<2	<10	164	<10	8	8	
1440816 Orig															
1440816 Dup															
1440818 Orig	0.092	0.109	1.50	<2	10	63	0.22	<1	<2	<10	168	<10	7	6	
1440818 Dup	0.089	0.104	1.47	<2	9	62	0.22	7	<2	<10	162	<10	7	6	
1440821 Orig	0.142	0.117	1.76	<2	10	208	0.22	5	<2	<10	186	<10	8	5	
1440821 Split	0.159	0.117	1.75	2	10	206	0.22	5	<2	<10	181	<10	8	6	
1440831 Orig															
1440831 Dup															
1440836 Orig	0.151	0.105	1.36	<2	8	64	0.20	1	<2	<10	142	<10	8	7	
1440836 Dup	0.149	0.106	1.44	<2	8	69	0.21	<1	<2	<10	151	<10	8	7	
1440850 Orig	0.122	0.064	0.40	<2	4	41	0.15	5	<2	<10	81	<10	6	12	
1440850 Dup	0.128	0.064	0.40	<2	4	42	0.16	<1	<2	<10	81	<10	6	12	
1440852 Orig	0.183	0.109	1.13	<2	6	184	0.21	4	<2	<10	150	<10	7	6	
1440852 Split	0.186	0.109	1.14	<2	6	191	0.22	<1	<2	<10	152	<10	7	6	
1440852 Dup															
1440852 Split															
1440682 Orig	0.106	0.121	0.35	3	12	65	0.21	2	<2	<10	253	<10	10	13	
1440682 Dup	0.108	0.120	0.35	2	12	65	0.21	2	<2	<10	255	<10	10	13	
1440686 Orig															
1440686 Dup															
1440696 Orig	0.039	0.121	0.30	<2	6	47	<0.01	<1	<2	<10	161	<10	11	7	
1440696 Dup	0.040	0.123	0.33	3	6	49	<0.01	<1	<2	<10	162	<10	11	7	
1440699 Orig	0.056	0.105	1.47	4	13	60	0.20	<1	<2	<10	228	<10	9	9	
1440699 Split	0.057	0.105	1.45	3	14	61	0.21	<1	<2	<10	220	<10	9	10	
Method Blank	0.008	<0.001	<0.01	<2	<1	<1	<0.01	<1	<2	<10	<1	<10	<1	<1	<1
Method Blank	0.009	<0.001	<0.01	<2	<1	<1	<0.01	<1	<2	<10	<1	<10	<1	<1	<1
Method Blank	0.008	<0.001	<0.01	<2	<1	<1	<0.01	<1	<2	<10	<1	<10	<1	<1	<1
Method Blank	0.008	<0.001	<0.01	<2	<1	<1	<0.01	<1	<2	<10	<1	<10	<1	<1	<1

Quality Control															
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES

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Date Submitted: 17-Jul-13
Invoice No.: A13-08201
Invoice Date: 31-Jul-13
Your Reference: MAN-PRIME

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

4 Pulp samples and 91 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-50-Kamloops Au - Fire Assay AA (QOP AA-Au)
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)
Code 8-AR Kamloops Code 8-Assays Kamloops

REPORT **A13-08201**

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Notes:

If value exceeds upper limit we recommend re-assay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

Footnote: Sample 1440947 re-analysed as QC check and new data consistent with previous data reported.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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Activation Laboratories Ltd. Report: A13-08201 rev 3

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440858	10	< 0.2	< 0.5	558	204	18	12	< 2	23	2.22	9	< 10	56	< 0.5	< 2	1.63	14	19	3.42	< 10	< 1	0.20	< 10	1.60
1440859	< 5	< 0.2	< 0.5	207	349	6	4	< 2	28	1.65	3	< 10	87	< 0.5	< 2	1.86	9	13	2.80	< 10	< 1	0.17	11	0.85
1440860	< 5	< 0.2	< 0.5	211	279	4	4	< 2	23	1.63	< 2	< 10	94	< 0.5	< 2	1.79	10	12	2.68	< 10	< 1	0.14	11	0.73
1440861	19	0.4	< 0.5	1250	279	23	12	< 2	23	1.86	< 2	< 10	38	< 0.5	< 2	1.98	17	15	3.14	< 10	< 1	0.17	< 10	1.37
1440862	23	0.4	< 0.5	1470	173	31	12	< 2	23	2.19	3	< 10	36	< 0.5	< 2	2.02	15	18	3.14	< 10	< 1	0.15	< 10	1.40
1440863	13	0.3	< 0.5	1760	192	54	10	< 2	17	1.64	< 2	< 10	28	< 0.5	< 2	2.56	24	12	4.81	< 10	< 1	0.13	< 10	1.02
1440864	11	< 0.2	< 0.5	1010	159	18	10	< 2	19	1.90	< 2	< 10	38	< 0.5	< 2	1.75	17	17	3.19	< 10	< 1	0.15	< 10	1.33
1440865	17	< 0.2	< 0.5	813	210	24	10	< 2	23	2.38	4	< 10	47	< 0.5	< 2	2.07	16	18	3.52	< 10	< 1	0.18	< 10	1.65
1440866	9	< 0.2	< 0.5	451	245	25	7	< 2	23	1.72	< 2	< 10	67	< 0.5	< 2	1.87	10	16	2.50	< 10	< 1	0.16	< 10	1.07
1440867	< 5	< 0.2	< 0.5	404	237	6	5	3	20	1.67	2	< 10	82	< 0.5	< 2	2.10	10	15	2.68	< 10	< 1	0.15	13	0.75
1440868	< 5	< 0.2	< 0.5	317	294	15	6	< 2	26	1.85	2	< 10	89	< 0.5	< 2	2.11	12	14	2.93	< 10	< 1	0.16	14	0.81
1440869	8	< 0.2	< 0.5	350	326	55	7	< 2	27	1.98	3	< 10	70	< 0.5	< 2	2.28	11	15	3.25	< 10	< 1	0.16	11	1.12
1440870	374	30.9	< 0.5	3590	388	699	13	41	44	0.41	26	< 10	105	< 0.5	8	1.28	3	22	1.82	< 10	2	0.14	< 10	0.10
1440871	12	0.2	< 0.5	663	242	14	9	< 2	27	2.06	< 2	< 10	64	< 0.5	< 2	1.98	12	19	3.07	< 10	< 1	0.18	< 10	1.39
1440872	< 5	< 0.2	< 0.5	32	583	2	15	4	64	2.01	< 2	< 10	71	< 0.5	< 2	1.51	16	21	3.80	< 10	< 1	0.10	15	1.10
1440873	13	< 0.2	< 0.5	804	217	6	11	< 2	29	2.70	< 2	< 10	51	< 0.5	< 2	2.38	10	14	2.70	< 10	< 1	0.25	< 10	1.67
1440874	32	0.4	< 0.5	2120	182	10	11	3	31	2.14	< 2	< 10	64	< 0.5	< 2	1.66	11	16	2.39	< 10	< 1	0.25	< 10	1.70
1440875	31	0.4	< 0.5	2140	185	10	11	< 2	31	2.19	< 2	< 10	64	< 0.5	2	1.69	11	16	2.47	< 10	< 1	0.26	< 10	1.74
1440876	11	0.2	< 0.5	989	187	17	11	< 2	28	2.25	< 2	< 10	62	< 0.5	< 2	1.71	15	19	3.20	< 10	< 1	0.29	< 10	1.89
1440877	< 5	< 0.2	< 0.5	828	199	24	13	< 2	26	2.27	< 2	< 10	53	< 0.5	< 2	1.92	15	16	4.43	< 10	< 1	0.25	< 10	1.78
1440878	23	0.3	< 0.5	2040	152	25	12	< 2	25	2.02	< 2	< 10	35	< 0.5	< 2	1.84	16	17	4.04	< 10	< 1	0.17	< 10	1.44
1440879	8	< 0.2	< 0.5	1110	165	21	12	< 2	19	2.05	< 2	< 10	46	< 0.5	< 2	1.92	17	20	3.51	< 10	< 1	0.18	< 10	1.32
1440880	< 5	< 0.2	< 0.5	562	219	9	8	< 2	20	1.67	3	< 10	69	< 0.5	< 2	1.66	11	17	2.86	< 10	< 1	0.21	< 10	1.07
1440881	6	< 0.2	< 0.5	375	256	6	6	< 2	21	1.71	< 2	< 10	82	< 0.5	< 2	1.98	12	24	2.82	< 10	< 1	0.17	11	0.99
1440882	8	< 0.2	< 0.5	488	218	11	12	< 2	23	2.21	< 2	< 10	63	< 0.5	< 2	2.09	10	17	2.80	< 10	< 1	0.25	< 10	1.54
1440883	< 5	< 0.2	< 0.5	511	192	7	11	< 2	20	2.43	< 2	< 10	61	< 0.5	< 2	2.15	10	19	2.75	< 10	< 1	0.25	< 10	1.76
1440884	44	1.0	< 0.5	3240	184	23	12	< 2	29	2.24	< 2	< 10	46	< 0.5	< 2	2.03	13	18	2.87	< 10	< 1	0.24	< 10	1.49
1440885	7	< 0.2	< 0.5	707	186	13	11	< 2	23	2.41	< 2	< 10	63	< 0.5	< 2	1.98	9	19	2.68	< 10	< 1	0.31	< 10	1.68
1440886	19	0.4	< 0.5	1240	176	16	10	< 2	24	3.24	< 2	< 10	100	< 0.5	< 2	2.01	7	22	2.15	< 10	< 1	0.45	< 10	1.82
1440887	18	0.3	< 0.5	950	166	24	11	< 2	21	3.42	< 2	25	136	< 0.5	< 2	1.93	10	23	2.31	< 10	< 1	0.46	< 10	1.87
1440888	21	0.3	< 0.5	1560	156	9	10	< 2	21	2.99	< 2	< 10	97	< 0.5	< 2	2.14	9	18	2.41	< 10	< 1	0.41	< 10	1.63
1440889	17	0.3	< 0.5	1020	196	18	10	< 2	23	3.02	10	< 10	90	< 0.5	< 2	2.34	9	20	3.51	< 10	< 1	0.41	< 10	1.69
1440890	12	< 0.2	< 0.5	963	170	16	9	< 2	23	3.30	< 2	< 10	109	< 0.5	< 2	2.27	9	19	2.90	< 10	< 1	0.34	< 10	1.70
1440891	10	< 0.2	< 0.5	1010	162	20	10	< 2	23	3.34	4	< 10	85	< 0.5	< 2	2.09	10	21	2.91	< 10	< 1	0.32	< 10	1.77
1440892	20	0.5	< 0.5	1680	148	11	12	< 2	21	2.46	6	< 10	37	< 0.5	< 2	2.18	11	17	3.20	< 10	< 1	0.14	< 10	1.41
1440893	26	0.4	< 0.5	1380	146	29	11	< 2	24	3.27	3	17	72	< 0.5	< 2	2.51	11	18	2.63	< 10	< 1	0.22	< 10	1.86
1440894	54	1.0	< 0.5	2840	158	26	13	3	28	3.00	< 2	< 10	48	< 0.5	< 2	2.82	13	20	3.24	10	< 1	0.20	< 10	1.66
1440895	393	29.9	< 0.5	3580	383	694	13	41	43	0.41	25	< 10	119	< 0.5	5	1.27	3	22	1.80	< 10	1	0.14	< 10	0.10
1440896	27	0.6	< 0.5	2180	175	16	10	< 2	27	2.58	5	< 10	50	< 0.5	< 2	2.09	14	21	3.23	< 10	< 1	0.14	< 10	1.42
1440897	< 5	< 0.2	< 0.5	43	596	1	15	5	65	2.16	< 2	< 10	68	< 0.5	< 2	1.74	16	20	3.82	< 10	< 1	0.08	14	1.24
1440898	24	0.5	< 0.5	1920	161	7	9	< 2	25	2.83	< 2	< 10	58	< 0.5	< 2	2.13	13	16	3.11	< 10	< 1	0.17	< 10	1.58
1440899	18	0.4	< 0.5	1650	160	7	9	< 2	20	3.26	4	< 10	73	< 0.5	< 2	2.53	10	17	2.60	< 10	< 1	0.20	< 10	1.71
1440900	17	0.3	< 0.5	1600	161	7	9	< 2	19	3.30	10	< 10	75	< 0.5	< 2	2.49	10	17	2.63	10	2	0.20	< 10	1.71
1440901	52	1.0	< 0.5	2530	190	9	8	< 2	28	2.63	< 2	< 10	94	< 0.5	< 2	2.07	11	22	2.36	< 10	< 1	0.16	< 10	1.67
1440902	12	< 0.2	< 0.5	835	229	4	8	< 2	23	2.43	4	< 10	111	< 0.5	< 2	2.22	8	19	2.62	< 10	< 1	0.27	< 10	1.43
1440903	< 5	< 0.2	< 0.5	36	165	< 1	< 1	4	10	0.95	< 2	< 10	118	< 0.5	< 2	2.47	1	12	1.11	< 10	< 1	0.29	< 10	0.32
1440904	< 5	< 0.2	< 0.5	31	172	< 1	< 1	5	10	1.18	2	< 10	141	< 0.5	< 2	2.60	3	12	1.63	< 10	< 1	0.33	< 10	0.37
1440905	7	< 0.2	< 0.5	706	192	< 1	8	< 2	17	1.47	< 2	< 10	198	< 0.5	2	2.87	4	13	1.54	< 10	< 1	0.28	< 10	0.82
1440906	17	0.2	< 0.5	1180	222	6	10	< 2	28	2.87	< 2	< 10	57	< 0.5	< 2	1.99	17	17	3.28	< 10	< 1	0.26	< 10	2.08
1440907	41	1.0	< 0.5	2290	255	16	11	3	41	3.30	< 2	< 10	33	< 0.5	< 2	1.68	23	24	4.89	< 10	< 1	0.27	< 10	2.78
1440908	52	1.1	< 0.5	3490	167	20	10	< 2	40	2.73	2	< 10	38	< 0.5	< 2	2.33	17	18	3.31	< 10	< 1	0.12	< 10	1.54
1440909	35	0.8	< 0.5	3280	247	10	8	< 2	43	2.10	2	< 10	29											

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	10	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440910	57	1.4	< 0.5	4440	160	39	12	2	42	2.86	< 2	< 10	46	< 0.5	4	2.12	17	18	3.12	< 10	< 1	0.15	< 10	1.90
1440911	23	0.5	< 0.5	1980	160	39	11	< 2	30	2.68	< 2	< 10	58	< 0.5	< 2	1.99	11	16	2.61	< 10	< 1	0.18	< 10	1.84
1440912	81	1.7	< 0.5	4060	368	58	9	6	57	2.57	7	< 10	43	< 0.5	4	2.98	17	17	4.64	< 10	2	0.17	< 10	1.67
1440913	45	23.2	4.7	395	533	47	18	27	40	1.96	10	< 10	67	17.2	14	2.58	18	37	4.09	< 10	< 1	0.22	23	1.74
1440914	27	0.4	< 0.5	1490	216	21	12	< 2	26	2.77	< 2	< 10	95	< 0.5	< 2	2.24	11	15	3.50	< 10	< 1	0.46	< 10	1.72
1440915	32	0.7	< 0.5	2970	194	35	12	5	30	2.84	< 2	< 10	69	< 0.5	< 2	2.08	13	19	3.56	< 10	< 1	0.28	< 10	1.82
1440916	35	0.7	< 0.5	2400	207	43	13	3	33	2.76	2	< 10	55	< 0.5	< 2	2.01	19	19	3.48	< 10	< 1	0.51	< 10	1.77
1440917	7	< 0.2	< 0.5	246	235	7	3	< 2	11	1.15	< 2	< 10	226	< 0.5	< 2	2.87	3	21	1.67	< 10	< 1	0.44	< 10	0.34
1440918	11	< 0.2	< 0.5	178	208	3	< 1	4	8	1.07	3	< 10	115	< 0.5	< 2	2.89	4	10	1.67	< 10	< 1	0.41	< 10	0.24
1440919	6	< 0.2	< 0.5	19	215	3	4	2	10	1.17	< 2	< 10	544	< 0.5	< 2	2.27	3	22	1.68	< 10	< 1	0.44	< 10	0.29
1440920	401	30.5	< 0.5	3790	408	740	15	45	46	0.43	28	< 10	114	< 0.5	3	1.35	4	23	1.92	< 10	1	0.15	< 10	0.11
1440921	< 5	< 0.2	< 0.5	57	173	7	< 1	3	9	0.78	6	< 10	220	< 0.5	< 2	2.48	4	9	1.25	< 10	< 1	0.30	< 10	0.26
1440922	11	< 0.2	< 0.5	35	191	8	2	< 2	9	0.98	8	< 10	607	< 0.5	< 2	2.59	2	18	1.25	< 10	< 1	0.39	< 10	0.25
1440923	< 5	< 0.2	< 0.5	33	563	1	15	6	65	1.95	2	< 10	55	< 0.5	< 2	1.59	17	20	3.72	< 10	< 1	0.07	14	1.18
1440924	< 5	< 0.2	< 0.5	23	228	11	3	< 2	11	1.55	< 2	< 10	630	< 0.5	< 2	2.39	2	23	1.66	< 10	< 1	0.61	< 10	0.30
1440925	8	< 0.2	< 0.5	260	214	8	3	3	10	1.08	< 2	< 10	154	< 0.5	< 2	2.36	4	10	1.80	< 10	< 1	0.38	< 10	0.30
1440926	5	< 0.2	< 0.5	302	213	7	1	3	11	1.06	< 2	< 10	165	< 0.5	< 2	2.32	3	10	1.79	< 10	< 1	0.38	< 10	0.30
1440927	< 5	< 0.2	< 0.5	33	246	17	3	< 2	7	1.20	< 2	< 10	236	< 0.5	< 2	2.85	2	22	1.44	< 10	< 1	0.52	< 10	0.19
1440928	51	1.1	< 0.5	2970	234	30	8	< 2	44	1.72	< 2	< 10	48	< 0.5	< 2	2.23	13	15	3.09	< 10	< 1	0.26	< 10	1.17
1440929	88	2.1	< 0.5	5570	179	60	11	< 2	62	2.18	< 2	< 10	49	< 0.5	3	1.68	18	23	3.50	< 10	< 1	0.22	< 10	1.38
1440930	54	1.0	< 0.5	3880	159	56	11	3	35	2.63	3	< 10	50	< 0.5	3	2.16	16	16	3.26	< 10	< 1	0.22	< 10	1.55
1440931	57	1.6	< 0.5	3550	151	54	10	< 2	50	1.98	3	< 10	42	< 0.5	4	2.06	18	17	2.92	< 10	< 1	0.19	< 10	1.20
1440932	36	0.7	< 0.5	2250	156	51	13	< 2	33	2.29	< 2	< 10	51	< 0.5	< 2	1.82	19	20	3.41	< 10	< 1	0.30	< 10	1.58
1440933	24	0.5	< 0.5	1630	146	43	14	< 2	30	2.83	3	10	60	< 0.5	< 2	2.06	14	19	3.20	< 10	< 1	0.21	< 10	1.66
1440934	48	0.9	< 0.5	3000	152	22	11	< 2	35	2.68	< 2	21	65	< 0.5	< 2	1.83	11	19	3.26	< 10	< 1	0.30	< 10	1.62
1440935	64	1.1	< 0.5	2910	161	17	12	5	38	2.84	< 2	15	54	< 0.5	< 2	2.00	12	20	2.98	< 10	< 1	0.19	< 10	1.77
1440936	32	0.7	< 0.5	1780	200	8	10	< 2	41	2.52	3	< 10	38	< 0.5	< 2	2.17	9	16	3.07	< 10	< 1	0.20	< 10	1.67
1440937	51	1.1	< 0.5	2300	178	4	10	2	38	2.77	< 2	< 10	36	< 0.5	< 2	2.29	9	16	3.44	10	< 1	0.25	< 10	1.66
1440938	10	< 0.2	< 0.5	616	147	13	9	< 2	25	3.09	< 2	< 10	50	< 0.5	< 2	2.79	9	17	2.26	< 10	< 1	0.13	< 10	1.63
1440939	173	0.8	< 0.5	2920	162	4	12	< 2	31	3.61	2	12	61	< 0.5	< 2	2.78	12	20	3.25	< 10	< 1	0.16	< 10	1.82
1440940	381	31.0	< 0.5	3830	395	694	14	39	45	0.43	27	< 10	117	< 0.5	8	1.31	3	23	1.87	< 10	< 1	0.15	< 10	0.11
1440941	42	0.8	< 0.5	2520	131	15	10	< 2	23	2.91	5	25	58	< 0.5	< 2	2.11	11	17	3.48	< 10	< 1	0.20	< 10	1.62
1440942	27	0.4	< 0.5	1300	157	4	10	< 2	27	2.60	< 2	< 10	48	< 0.5	< 2	2.25	9	16	3.17	< 10	< 1	0.25	< 10	1.59
1440943	24	0.7	< 0.5	1280	185	6	10	< 2	32	2.78	5	27	73	< 0.5	< 2	2.14	9	18	3.48	< 10	< 1	0.39	< 10	1.90
1440944	< 5	< 0.2	< 0.5	46	611	< 1	15	4	66	2.03	3	< 10	60	< 0.5	< 2	2.06	16	20	3.59	< 10	< 1	0.14	16	1.02
1440945	11	< 0.2	< 0.5	800	173	17	11	< 2	26	2.69	10	20	61	< 0.5	< 2	1.99	10	19	2.99	< 10	< 1	0.25	< 10	1.81
1440946	18	< 0.2	< 0.5	664	188	14	10	< 2	23	2.58	< 2	< 10	62	< 0.5	< 2	1.90	10	18	3.05	< 10	< 1	0.25	< 10	1.74
1440947	13	< 0.2	< 0.5	628	207	15	10	< 2	24	2.44	< 2	< 10	79	< 0.5	< 2	2.04	12	19	3.61	< 10	< 1	0.43	< 10	1.70
1440948	40	0.6	< 0.5	1460	167	7	9	< 2	28	2.27	< 2	< 10	68	< 0.5	< 2	1.91	10	17	2.89	< 10	< 1	0.46	< 10	1.62
1440949	43	0.4	< 0.5	1710	177	12	12	5	28	3.44	< 2	38	111	< 0.5	< 2	2.26	10	23	2.68	< 10	< 1	0.28	< 10	1.93
1440950	27	0.4	< 0.5	1810	161	5	11	2	25	3.73	< 2	11	77	< 0.5	< 2	2.66	10	18	3.11	10	< 1	0.24	< 10	1.93
1440951	11	< 0.2	< 0.5	585	163	10	12	< 2	20	3.19	8	30	91	< 0.5	< 2	2.24	10	17	3.20	< 10	3	0.29	< 10	1.94

1440952 (missing)

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440858	0.120	0.112	1.10	<2	8	98	0.24	<1	<2	<10	166	<10	8	4	
1440859	0.120	0.094	0.62	<2	5	90	0.17	4	<2	<10	88	<10	7	11	
1440860	0.135	0.087	0.70	3	4	89	0.16	<1	<2	<10	86	<10	7	11	
1440861	0.093	0.113	1.29	<2	6	58	0.20	3	<2	<10	136	<10	8	4	
1440862	0.091	0.108	1.30	<2	6	67	0.22	5	<2	<10	142	<10	8	3	
1440863	0.081	0.100	3.01	3	5	79	0.17	2	<2	<10	113	<10	9	4	
1440864	0.096	0.102	1.37	<2	6	69	0.21	5	<2	<10	142	<10	7	3	
1440865	0.094	0.106	1.28	2	8	74	0.24	9	<2	<10	165	<10	8	3	
1440866	0.096	0.089	0.58	<2	6	58	0.19	3	<2	<10	119	<10	8	4	
1440867	0.107	0.099	0.83	<2	4	78	0.17	4	<2	<10	102	<10	8	5	
1440868	0.113	0.097	0.62	2	5	72	0.17	2	<2	<10	102	<10	8	6	
1440869	0.096	0.104	0.54	<2	7	63	0.18	<1	<2	<10	127	<10	9	5	
1440870	0.033	0.044	0.55	55	<1	160	<0.01	4	<2	<10	12	<10	3	1	
1440871	0.097	0.094	0.66	<2	8	66	0.22	5	<2	<10	134	<10	9	4	
1440872	0.154	0.086	<0.01	4	6	56	0.30	4	<2	<10	94	<10	13	12	
1440873	0.079	0.097	0.29	<2	8	56	0.20	5	<2	<10	138	<10	9	2	
1440874	0.100	0.100	0.55	<2	9	61	0.22	2	<2	<10	140	<10	9	2	
1440875	0.104	0.101	0.55	<2	9	61	0.23	2	<2	<10	142	<10	9	2	
1440876	0.108	0.096	1.08	<2	9	63	0.23	<1	<2	<10	182	<10	8	3	
1440877	0.084	0.105	1.31	2	9	65	0.23	<1	<2	<10	165	<10	10	3	
1440878	0.105	0.082	2.11	<2	7	85	0.21	6	<2	<10	156	<10	8	3	
1440879	0.143	0.107	1.61	<2	6	82	0.21	2	<2	<10	158	<10	8	3	
1440880	0.155	0.091	0.97	<2	6	84	0.18	<1	<2	<10	120	<10	8	5	
1440881	0.117	0.086	0.81	<2	5	76	0.18	5	<2	<10	100	<10	7	6	
1440882	0.120	0.093	0.74	<2	8	59	0.22	2	<2	<10	137	<10	9	3	
1440883	0.154	0.098	0.74	<2	9	75	0.23	<1	<2	<10	153	<10	9	2	
1440884	0.149	0.103	1.14	<2	8	70	0.21	<1	<2	<10	136	<10	9	3	
1440885	0.153	0.073	0.75	3	9	68	0.22	3	<2	<10	150	<10	8	3	
1440886	0.232	0.098	0.46	<2	9	293	0.22	4	<2	<10	158	<10	7	2	
1440887	0.218	0.105	0.48	<2	9	352	0.23	<1	<2	<10	168	<10	7	2	
1440888	0.195	0.105	0.79	<2	9	267	0.23	2	<2	<10	168	<10	9	2	
1440889	0.182	0.100	0.97	<2	8	261	0.22	2	<2	<10	148	<10	9	2	
1440890	0.193	0.095	0.74	<2	8	295	0.23	5	<2	<10	152	<10	8	2	
1440891	0.214	0.100	0.85	<2	9	230	0.24	<1	<2	<10	166	<10	8	2	
1440892	0.093	0.111	1.69	<2	7	89	0.21	2	<2	<10	150	<10	8	3	
1440893	0.137	0.104	0.77	3	9	222	0.23	<1	<2	<10	170	<10	7	2	
1440894	0.121	0.095	1.47	2	10	140	0.21	1	<2	<10	172	<10	8	3	
1440895	0.033	0.044	0.55	57	<1	159	<0.01	6	<2	<10	11	<10	3	1	
1440896	0.120	0.101	1.31	2	8	222	0.20	2	<2	<10	147	<10	8	3	
1440897	0.176	0.086	<0.01	3	7	67	0.29	2	<2	<10	94	<10	13	12	
1440898	0.115	0.095	0.90	3	9	200	0.19	2	<2	<10	144	<10	8	3	
1440899	0.129	0.088	0.68	<2	8	321	0.20	<1	3	<10	139	<10	8	3	
1440900	0.131	0.089	0.68	<2	8	323	0.21	2	<2	<10	140	<10	8	3	
1440901	0.112	0.094	0.75	<2	8	290	0.17	<1	<2	<10	142	<10	8	3	
1440902	0.107	0.087	0.59	2	6	192	0.10	<1	<2	<10	109	<10	7	2	
1440903	0.071	0.047	0.04	2	1	51	0.01	<1	<2	<10	27	<10	4	2	
1440904	0.074	0.053	0.39	2	1	53	<0.01	<1	<2	<10	30	<10	4	2	
1440905	0.065	0.061	0.29	<2	3	76	0.02	<1	<2	<10	56	<10	7	2	
1440906	0.120	0.112	1.09	3	8	191	0.11	3	<2	<10	136	<10	9	2	
1440907	0.085	0.106	2.13	3	13	127	0.23	1	<2	<10	217	<10	8	2	
1440908	0.069	0.100	1.53	2	7	63	0.21	4	<2	<10	147	<10	7	3	
1440909	0.092	0.095	2.59	<2	6	72	0.17	<1	<2	<10	129	<10	7	5	

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Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440910	0.116	0.109	1.43	< 2	8	89	0.22	< 1	< 2	< 10	165	< 10	7	2	
1440911	0.115	0.106	0.87	< 2	8	107	0.19	< 1	< 2	< 10	151	< 10	7	2	
1440912	0.122	0.104	1.82	2	8	157	0.17	< 1	< 2	< 10	156	< 10	8	3	
1440913	0.056	0.126	0.34	19	19	89	0.15	7	< 2	< 10	124	40	15	2	
1440914	0.122	0.108	0.86	< 2	7	200	0.08	2	< 2	< 10	114	< 10	9	2	
1440915	0.112	0.100	1.09	2	8	132	0.21	< 1	< 2	< 10	139	< 10	9	2	
1440916	0.194	0.118	1.30	< 2	9	210	0.22	4	< 2	< 10	160	< 10	9	2	
1440917	0.080	0.055	0.31	< 2	2	95	0.01	5	< 2	< 10	32	< 10	5	3	
1440918	0.073	0.048	0.51	2	1	96	< 0.01	< 1	< 2	< 10	20	< 10	5	3	
1440919	0.106	0.045	0.13	< 2	1	79	< 0.01	7	3	< 10	26	< 10	4	3	
1440920	0.035	0.046	0.57	54	< 1	171	< 0.01	8	< 2	< 10	13	< 10	4	1	
1440921	0.054	0.049	0.29	< 2	1	57	< 0.01	3	< 2	< 10	19	< 10	4	2	
1440922	0.075	0.046	0.10	< 2	1	93	< 0.01	2	2	< 10	21	< 10	4	2	
1440923	0.176	0.087	< 0.01	3	7	67	0.30	7	< 2	< 10	96	< 10	13	11	
1440924	0.146	0.044	0.04	3	1	90	0.03	1	3	< 10	27	< 10	4	3	
1440925	0.086	0.049	0.38	< 2	1	89	< 0.01	< 1	< 2	< 10	26	< 10	5	3	
1440926	0.085	0.047	0.38	< 2	1	90	0.01	< 1	< 2	< 10	25	< 10	4	3	
1440927	0.082	0.047	0.30	< 2	< 1	89	< 0.01	< 1	< 2	< 10	17	< 10	4	2	
1440928	0.113	0.101	1.34	< 2	7	60	0.09	< 1	< 2	< 10	117	< 10	10	2	
1440929	0.151	0.087	1.76	2	9	167	0.17	1	< 2	< 10	153	< 10	9	3	0.577
1440930	0.110	0.102	1.31	< 2	9	114	0.19	3	< 2	< 10	142	< 10	9	3	
1440931	0.119	0.106	1.59	2	8	161	0.21	< 1	< 2	< 10	132	< 10	9	3	
1440932	0.105	0.107	1.62	4	9	116	0.24	< 1	< 2	< 10	146	< 10	9	3	
1440933	0.123	0.109	1.19	< 2	9	175	0.23	< 1	< 2	< 10	154	< 10	8	3	
1440934	0.143	0.099	1.28	< 2	10	181	0.22	< 1	< 2	< 10	178	< 10	9	3	
1440935	0.111	0.088	1.06	< 2	10	145	0.23	3	< 2	< 10	172	< 10	9	2	
1440936	0.078	0.091	1.14	3	9	95	0.22	< 1	2	< 10	159	< 10	8	2	
1440937	0.067	0.090	1.11	3	9	58	0.22	2	< 2	< 10	147	< 10	8	3	
1440938	0.127	0.096	0.71	< 2	9	240	0.20	< 1	< 2	< 10	149	< 10	7	2	
1440939	0.138	0.108	0.76	3	9	249	0.22	5	< 2	< 10	168	< 10	7	2	
1440940	0.035	0.045	0.56	60	< 1	165	< 0.01	4	< 2	< 10	12	< 10	4	1	
1440941	0.125	0.096	1.43	2	10	261	0.21	6	< 2	< 10	168	< 10	8	2	
1440942	0.100	0.101	0.63	2	8	146	0.18	< 1	< 2	< 10	140	< 10	9	2	
1440943	0.132	0.114	0.76	3	10	236	0.21	< 1	< 2	< 10	167	< 10	10	3	
1440944	0.141	0.086	0.01	3	5	57	0.18	5	< 2	< 10	86	< 10	13	10	
1440945	0.101	0.100	0.42	< 2	10	186	0.22	< 1	< 2	< 10	169	< 10	8	11	
1440946	0.100	0.099	0.42	< 2	10	146	0.23	3	< 2	< 10	163	< 10	10	11	
1440947	0.119	0.100	0.65	< 2	10	148	0.23	< 1	< 2	< 10	164	< 10	10	11	
1440948	0.103	0.099	1.09	< 2	9	74	0.21	< 1	< 2	< 10	141	< 10	10	2	
1440949	0.182	0.102	0.39	< 2	10	312	0.22	5	< 2	< 10	169	< 10	8	2	
1440950	0.151	0.092	0.41	2	9	194	0.23	1	< 2	< 10	170	< 10	8	3	
1440951	0.152	0.104	0.55	< 2	10	227	0.23	< 1	< 2	< 10	172	< 10	9	3	

1440952 (missing)

Quality Control	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Analyte Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.5	2.3	1160	799	14	32	604	704	0.34	374	< 10	217	0.8	1400	0.73	5	6	19.6	< 10	4	0.03	< 10	0.12
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-1 Meas		27.6	2.2	1120	773	12	28	599	692	0.33	390	10	214	0.8	1310	0.74	8	7	19.5	< 10	5	0.03	< 10	0.12
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-1 Meas		33.6	2.1	1210	767	13	28	649	709	0.35	352	< 10	249	0.8	1370	0.74	6	6	21.4	< 10	4	0.03	< 10	0.13
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-4 Meas		3.4	< 0.5	6200	147	336	37	51	73	2.96	107	< 10	55	1.4	9	0.86	14	59	2.93	< 10	< 1	1.54	40	1.59
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-4 Meas		3.1	< 0.5	6000	129	295	33	39	65	2.85	102	< 10	73	1.4	16	0.79	12	51	2.72	< 10	< 1	1.49	36	1.46
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-4 Meas		4.0	< 0.5	6540	142	305	38	45	69	3.03	98	< 10	45	1.3	36	0.84	13	55	2.97	< 10	< 1	1.63	45	1.60
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-6 Meas		0.3	< 0.5	76	1060	2	23	107	120	6.89	244	< 10	724	0.7	< 2	0.10	13	86	6.08	10	< 1	0.91	< 10	0.37
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
GXR-6 Meas		0.3	< 0.5	66	994	2	21	92	115	6.55	246	< 10	687	0.8	< 2	0.10	13	78	5.26	10	< 1	0.80	< 10	0.34
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
GXR-6 Meas		0.3	< 0.5	75	1050	3	24	100	123	7.32	230	< 10	792	0.8	< 2	0.11	13	84	5.67	10	3	0.94	< 10	0.37
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
PTC-1a Meas																								
PTC-1a Cert																								
MP-1b Meas																								
MP-1b Cert																								
SAR-M (U.S.G.S.) Meas		2.4	4.5	300	4400	13	33	1160	1050	0.78	41		166	1.0	< 2	0.25	10	90	1.95	< 10		0.15	45	0.28
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
SAR-M (U.S.G.S.) Meas		4.3	4.9	331	4100	12	41	1070	957	1.08	38		201	1.0	< 2	0.30	11	97	2.73	< 10		0.22	57	0.34
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
CCu-1d Meas																								
CCu-1d Cert																								
CZN-4 Meas																								
CZN-4 Cert																								
SE58 Meas	609																							
SE58 Cert	607.00																							
SE58 Meas	587																							
SE58 Cert	607.00																							
SE58 Meas	617																							
SE58 Cert	607.00																							
SE58 Meas	624																							
SE58 Cert	607.00																							
SF57 Meas	849																							
SF57 Cert	848.000																							
SF57 Meas	918																							
SF57 Cert	848.000																							
SF57 Meas	820																							
SF57 Cert	848.000																							
SF57 Meas	874																							
SF57 Cert	848.000																							
1440865 Orig	14																							
1440865 Dup	20																							
1440870 Orig		30.9	< 0.5	3530	387	696	12	42	43	0.41	27	< 10	97	< 0.5	9	1.29	3	23	1.81	< 10	2	0.14	< 10	0.10
1440870 Dup		31.0	< 0.5	3640	389	702	14	40	45	0.41	26	< 10	113	< 0.5	7	1.28	3	22	1.82	< 10	1	0.14	< 10	0.10
1440880 Orig	< 5																							
1440880 Dup	5																							
1440884 Orig		1.0	< 0.5	3250	186	23	12	3	29	2.26	< 2	< 10	47	< 0.5	2	2.04	13	18	2.90	< 10	< 1	0.24	< 10	1.50
1440884 Dup		1.0	< 0.5	3230	182	23	11	< 2	28	2.22	< 2	< 10	46	< 0.5	< 2	2.02	13	17	2.85	< 10	1	0.24	< 10	1.48
1440887 Orig	18	0.3	< 0.5	950	166	24	11	< 2	21	3.42	< 2	25	136	< 0.5	< 2	1.93	10	23	2.31	< 10	< 1	0.46	< 10	1.87
1440887 Split	17	< 0.2	< 0.5	986	171	25	12	< 2	22	3.64	8	27	135	< 0.5	< 2	2.00	10	25	2.46	< 10	< 1	0.49	< 10	1.97
1440897 Orig		< 0.2	< 0.5	43	588	2	15	4	65	2.14	3	< 10	67	< 0.5	< 2	1.73	16	20	3.80	< 10	< 1	0.08	14	1.22

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Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440897 Dup		< 0.2	< 0.5	43	604	1	16	6	66	2.18	< 2	< 10	69	< 0.5	< 2	1.75	16	21	3.84	< 10	< 1	0.08	14	1.26
1440901 Orig	51																							
1440901 Dup	53																							
1440907 Orig	41	1.0	< 0.5	2290	255	16	11	3	41	3.30	< 2	< 10	33	< 0.5	< 2	1.68	23	24	4.89	< 10	< 1	0.27	< 10	2.78
1440907 Split	44	1.0	< 0.5	2260	255	16	14	< 2	40	3.36	2	< 10	31	< 0.5	< 2	1.72	22	24	4.88	< 10	< 1	0.27	< 10	2.77
1440911 Orig		0.5	< 0.5	1940	157	39	10	< 2	30	2.65	3	< 10	57	< 0.5	< 2	1.97	11	16	2.59	< 10	< 1	0.18	< 10	1.82
1440911 Dup		0.5	< 0.5	2020	163	39	11	< 2	30	2.71	< 2	< 10	58	< 0.5	< 2	2.02	11	16	2.64	< 10	< 1	0.18	< 10	1.86
1440916 Orig	34																							
1440916 Dup	35																							
1440917 Orig	7	< 0.2	< 0.5	246	235	7	3	< 2	11	1.15	< 2	< 10	226	< 0.5	< 2	2.87	3	21	1.67	< 10	< 1	0.44	< 10	0.34
1440917 Split	8	< 0.2	< 0.5	250	237	7	2	3	11	1.17	< 2	< 10	274	< 0.5	< 2	2.88	3	22	1.71	< 10	< 1	0.44	< 10	0.35
1440929 Orig																								
1440929 Dup																								
1440934 Orig		0.9	< 0.5	3030	154	22	12	< 2	35	2.69	< 2	21	65	< 0.5	< 2	1.84	11	19	3.27	< 10	< 1	0.30	< 10	1.64
1440934 Dup		0.9	< 0.5	2980	150	22	10	< 2	35	2.67	< 2	21	64	< 0.5	< 2	1.81	11	19	3.24	< 10	< 1	0.29	< 10	1.61
1440937 Orig	52																							
1440937 Dup	51																							
1440946 Orig	12	< 0.2	< 0.5	656	187	13	10	< 2	23	2.58	< 2	< 10	82	< 0.5	< 2	1.89	11	18	3.63	< 10	< 1	0.45	< 10	1.73
1440946 Dup	23	< 0.2	< 0.5	671	189	14	10	< 2	23	2.58	< 2	< 10	83	< 0.5	< 2	1.91	12	18	3.70	< 10	< 1	0.45	< 10	1.76
1440947 Orig	12	< 0.2	< 0.5	650	183	13	13	< 2	22	2.54	< 2	< 10	82	< 0.5	< 2	1.91	11	18	3.60	< 10	< 1	0.44	< 10	1.70
1440947 Split	14	< 0.2	< 0.5	644	184	13	12	< 2	24	2.58	< 2	< 10	83	< 0.5	< 2	1.91	11	18	3.70	< 10	< 1	0.46	< 10	1.74
1440947 Orig		< 0.2	< 0.5	637	207	15	11	< 2	24	2.45	< 2	< 10	79	< 0.5	< 2	2.04	12	20	3.63	< 10	< 1	0.42	< 10	1.70
1440947 Dup		< 0.2	< 0.5	620	206	15	9	< 2	24	2.43	4	< 10	79	< 0.5	< 2	2.03	12	19	3.58	< 10	< 1	0.43	< 10	1.71
1440948 Orig		0.7	< 0.5	1460	168	8	9	< 2	29	2.30	< 2	< 10	68	< 0.5	< 2	1.93	10	17	2.92	< 10	< 1	0.47	< 10	1.63
1440948 Dup		0.6	< 0.5	1460	165	7	8	< 2	28	2.25	3	< 10	68	< 0.5	< 2	1.90	10	17	2.87	< 10	< 1	0.46	< 10	1.61
Method Blank		< 0.2	< 0.5	2	< 5	< 1	< 1	< 2	3	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01

Quality Control																
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
GXR-1 Meas	0.038	0.035	0.17	69	< 1	131		11	< 2	30	81	122	32	55		
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0		
GXR-1 Meas	0.036	0.033	0.16	64	< 1	121		16	< 2	28	74	116	22	11		
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0		
GXR-1 Meas	0.041	0.036	0.17	71	< 1	135		3	< 2	30	78	143	23	11		
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0		
GXR-4 Meas	0.117	0.121	1.61	3	5	72		< 1	< 2	< 10	82	21	10	30		
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186		
GXR-4 Meas	0.113	0.110	1.43	4	5	67		3	3	< 10	76	16	9	8		
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186		
GXR-4 Meas	0.120	0.122	1.60	4	5	71		3	< 2	< 10	82	20	10	8		
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186		
GXR-6 Meas	0.059	0.032	0.01	4	12	19		< 1	< 2	< 10	164	< 10	4	29		
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	0.055	0.030	0.01	5	12	21		< 1	2	< 10	145	< 10	4	9		
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
GXR-6 Meas	0.064	0.033	0.01	3	13	22		< 1	< 2	< 10	164	< 10	4	7		
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110		
PTC-1a Meas																13.2
PTC-1a Cert																13.51
MP-1b Meas																3.16
MP-1b Cert																3.069
SAR-M (U.S.G.S.) Meas	0.021	0.061		5	2	27	0.03	8	< 2	< 10	29	< 10	21			
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00			
SAR-M (U.S.G.S.) Meas	0.028	0.066		4	3	29	0.05	3	< 2	< 10	34	< 10	22			
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00			
CCu-1d Meas																23.2
CCu-1d Cert																23.93
CZN-4 Meas																0.396
CZN-4 Cert																0.403
SE58 Meas																
SE58 Cert																
SE58 Meas																
SE58 Cert																
SE58 Meas																
SE58 Cert																
SE58 Meas																
SE58 Cert																
SF57 Meas																
SF57 Cert																
SF57 Meas																
SF57 Cert																
SF57 Meas																
SF57 Cert																
1440865 Orig																
1440865 Dup																
1440870 Orig	0.033	0.043	0.54	55	< 1	159	< 0.01	4	< 2	< 10	12	< 10	3	1		
1440870 Dup	0.033	0.044	0.55	55	< 1	160	< 0.01	3	< 2	< 10	12	< 10	3	1		
1440880 Orig																
1440880 Dup																
1440884 Orig	0.150	0.104	1.13	< 2	8	72	0.22	< 1	< 2	< 10	137	< 10	9	3		
1440884 Dup	0.148	0.102	1.15	< 2	8	69	0.21	8	< 2	< 10	135	< 10	9	3		
1440887 Orig	0.218	0.105	0.48	< 2	9	352	0.23	< 1	< 2	< 10	168	< 10	7	2		
1440887 Split	0.241	0.112	0.51	< 2	10	367	0.24	< 1	< 2	< 10	175	< 10	7	2		
1440897 Orig	0.173	0.086	< 0.01	3	7	67	0.29	4	< 2	< 10	94	< 10	13	12		

Quality Control																
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	
1440897 Dup	0.180	0.087	< 0.01	3	7	67	0.29	1	<2	< 10	94	< 10	13	12		
1440901 Orig																
1440901 Dup																
1440907 Orig	0.085	0.106	2.13	3	13	127	0.23	1	<2	< 10	217	< 10	8	2		
1440907 Split	0.085	0.106	2.18	<2	13	130	0.23	<1	<2	< 10	219	< 10	8	2		
1440911 Orig	0.114	0.105	0.88	<2	8	106	0.19	<1	<2	< 10	150	< 10	7	2		
1440911 Dup	0.115	0.107	0.87	<2	8	109	0.19	6	<2	< 10	153	< 10	7	2		
1440916 Orig																
1440916 Dup																
1440917 Orig	0.080	0.055	0.31	<2	2	95	0.01	5	<2	< 10	32	< 10	5	3		
1440917 Split	0.082	0.056	0.32	<2	2	97	0.01	3	<2	< 10	33	< 10	5	3		
1440929 Orig																0.600
1440929 Dup																0.554
1440934 Orig	0.143	0.100	1.28	<2	10	181	0.23	<1	<2	< 10	178	< 10	9	3		
1440934 Dup	0.143	0.099	1.28	2	10	180	0.22	<1	<2	< 10	178	< 10	9	3		
1440937 Orig																
1440937 Dup																
1440946 Orig	0.143	0.099	0.64	<2	10	145	0.23	9	<2	< 10	162	< 10	10	3		
1440946 Dup	0.142	0.099	0.65	2	10	148	0.23	5	<2	< 10	163	< 10	10	3		
1440947 Orig	0.125	0.098	0.65	3	10	143	0.22	2	<2	< 10	161	< 10	10	3		
1440947 Split	0.126	0.099	0.67	<2	10	148	0.23	2	<2	< 10	162	< 10	10	3		
1440947 Orig	0.120	0.100	0.65	2	10	149	0.23	<1	<2	< 10	165	< 10	10	11		
1440947 Dup	0.118	0.099	0.64	<2	10	147	0.23	2	3	< 10	162	< 10	10	11		
1440948 Orig	0.105	0.101	1.11	<2	9	74	0.22	4	<2	< 10	143	< 10	10	2		
1440948 Dup	0.102	0.098	1.08	<2	9	73	0.21	<1	<2	< 10	139	< 10	10	2		
Method Blank	0.008	< 0.001	< 0.01	<2	<1	<1	< 0.01	<1	<2	< 10	<1	< 10	<1	<1		
Method Blank	0.008	< 0.001	< 0.01	<2	<1	<1	< 0.01	3	<2	< 10	<1	< 10	<1	<1		
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																< 0.001
Method Blank	0.007	< 0.001	< 0.01	<2	<1	<1	< 0.01	<1	<2	< 10	<1	< 10	<1	<1		
Method Blank																
Method Blank																
Method Blank	0.008	< 0.001	< 0.01	<2	<1	<1	< 0.01	<1	<2	< 10	<1	< 10	<1	<1		



Date Submitted: 22-Jul-13
Invoice No.: A13-08328 (i)
Invoice Date: 31-Jul-13
Your Reference: MAN-PRIME

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

35 Core samples and 2 Pulp samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-50-Kamloops Au - Fire Assay AA (QOP AA-Au)
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A13-08328 (i)**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Activation Laboratories Ltd. Report: A13-08328 (i)

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440952	27	0.4	< 0.5	1090	176	1	10	6	29	3.05	5	11	75	< 0.5	< 2	2.02	10	18	3.44	< 10	< 1	0.34	< 10	1.99
1440953	90	0.9	< 0.5	4090	139	10	15	< 2	35	3.09	< 2	36	76	< 0.5	4	1.91	10	24	3.42	< 10	< 1	0.36	< 10	1.81
1440954	22	0.3	< 0.5	1150	171	< 1	9	4	31	3.21	3	11	97	< 0.5	< 2	2.00	11	17	3.79	< 10	< 1	0.31	< 10	1.83
1440955	31	0.5	< 0.5	1840	150	7	12	< 2	31	3.46	3	41	91	< 0.5	< 2	2.24	11	20	3.37	< 10	< 1	0.29	< 10	1.81
1440956	27	0.8	< 0.5	1970	176	6	8	< 2	52	2.27	4	58	38	< 0.5	< 2	2.05	13	16	3.30	< 10	< 1	0.14	< 10	1.43
1440957	53	1.2	< 0.5	2740	153	10	11	< 2	49	2.67	< 2	66	46	< 0.5	< 2	2.63	11	14	3.06	< 10	< 1	0.14	< 10	1.22
1440958	51	1.1	< 0.5	2590	170	3	9	4	54	2.39	4	73	37	< 0.5	< 2	2.17	11	13	3.09	< 10	< 1	0.13	< 10	1.30
1440959	41	0.7	< 0.5	1940	174	3	10	2	40	2.12	2	12	27	< 0.5	< 2	1.96	10	14	2.89	< 10	< 1	0.20	< 10	1.60
1440960	40	0.8	< 0.5	1960	177	2	12	< 2	37	1.92	< 2	< 10	25	< 0.5	< 2	1.86	8	14	2.54	< 10	< 1	0.13	< 10	1.64
1440961	338	25.6	< 0.5	3680	397	722	13	38	46	0.37	30	< 10	129	< 0.5	7	1.30	4	22	1.82	< 10	2	0.15	< 10	0.10
1440962	19	0.4	< 0.5	904	163	6	8	4	26	1.90	< 2	< 10	31	< 0.5	< 2	2.14	6	14	1.77	< 10	< 1	0.10	< 10	1.52
1440963	27	0.9	< 0.5	1920	148	4	9	3	35	2.30	< 2	< 10	42	< 0.5	< 2	2.14	10	16	2.76	< 10	< 1	0.15	< 10	1.80
1440964	< 5	< 0.2	< 0.5	36	573	< 1	11	4	62	1.82	< 2	< 10	46	< 0.5	< 2	1.89	15	19	3.40	< 10	< 1	0.10	12	1.02
1440965	10	0.3	< 0.5	973	168	2	7	2	26	2.20	4	< 10	49	< 0.5	< 2	2.33	15	14	2.97	< 10	< 1	0.25	< 10	1.75
1440966	10	0.3	< 0.5	1000	172	2	8	6	27	2.22	< 2	< 10	50	< 0.5	< 2	2.38	15	14	3.07	< 10	< 1	0.26	< 10	1.79
1440967	13	< 0.2	< 0.5	567	172	2	10	< 2	23	2.71	< 2	11	43	< 0.5	< 2	1.93	11	15	3.13	< 10	< 1	0.21	< 10	2.00
1440968	16	0.3	< 0.5	1130	172	4	11	< 2	22	2.39	7	32	47	< 0.5	< 2	2.04	11	15	3.43	< 10	< 1	0.22	< 10	1.83
1440969	12	< 0.2	< 0.5	1020	167	2	11	9	20	2.73	4	80	41	< 0.5	< 2	2.10	13	16	3.11	< 10	< 1	0.21	< 10	1.95
1440970	34	0.4	< 0.5	2690	121	3	10	< 2	20	2.52	< 2	38	36	< 0.5	4	2.17	14	14	2.57	< 10	< 1	0.23	< 10	1.77
1440971	< 5	< 0.2	< 0.5	523	144	1	10	< 2	19	2.59	2	161	40	< 0.5	< 2	2.19	13	19	3.24	< 10	< 1	0.15	< 10	1.70
1440972	25	0.4	< 0.5	2110	168	1	11	8	28	2.31	< 2	182	36	< 0.5	< 2	1.71	11	17	2.58	< 10	< 1	0.14	< 10	1.80
1440973	76	1.2	< 0.5	3970	169	2	8	< 2	41	2.11	8	11	31	< 0.5	< 2	2.35	13	15	3.24	< 10	< 1	0.13	< 10	1.64
1440974	86	1.7	< 0.5	4070	149	4	11	< 2	42	1.85	5	23	26	< 0.5	< 2	2.50	10	15	2.31	< 10	< 1	0.11	< 10	1.38
1440975	40	0.5	< 0.5	1750	166	1	10	< 2	26	2.29	3	135	36	< 0.5	< 2	2.20	11	16	2.70	< 10	< 1	0.19	< 10	1.63
1440976	90	1.3	< 0.5	3360	177	< 1	10	6	41	2.21	< 2	13	51	< 0.5	< 2	2.65	11	15	3.03	< 10	< 1	0.15	< 10	1.66
1440977	57	0.8	< 0.5	2060	176	11	9	< 2	30	2.49	6	18	24	< 0.5	< 2	2.51	15	15	2.89	< 10	1	0.15	< 10	1.59
1440978	52	0.6	< 0.5	1630	161	4	10	< 2	31	2.77	8	11	65	< 0.5	< 2	2.34	11	16	2.84	< 10	< 1	0.10	< 10	1.55
1440979	45	0.6	< 0.5	1590	154	21	10	< 2	23	1.91	4	18	23	< 0.5	< 2	2.47	27	13	3.93	< 10	1	0.10	< 10	1.23
1440980	131	2.2	< 0.5	3840	152	18	10	< 2	37	1.90	2	29	30	< 0.5	< 2	2.35	11	13	2.69	< 10	< 1	0.11	< 10	1.22
1440981	360	25.3	< 0.5	3630	392	705	12	44	44	0.36	27	< 10	117	< 0.5	7	1.29	3	21	1.79	< 10	2	0.14	< 10	0.10
1440982	79	0.9	< 0.5	2020	163	8	11	< 2	25	1.92	3	29	35	< 0.5	< 2	2.53	13	13	3.92	< 10	< 1	0.10	< 10	1.32
1440983	51	0.8	< 0.5	1770	145	10	12	3	27	2.05	< 2	< 10	30	< 0.5	< 2	2.00	10	21	3.44	< 10	< 1	0.12	< 10	1.71
1440984	< 5	< 0.2	< 0.5	49	595	< 1	13	6	69	1.96	3	< 10	65	< 0.5	< 2	1.64	15	19	3.52	< 10	1	0.10	12	1.10
1440985	42	0.4	< 0.5	1460	148	10	10	9	25	2.40	3	< 10	27	< 0.5	< 2	2.01	22	17	3.61	< 10	< 1	0.12	< 10	1.75
1440986	67	0.4	< 0.5	1900	157	7	10	< 2	27	2.23	3	< 10	26	< 0.5	< 2	1.92	23	16	2.98	< 10	< 1	0.11	< 10	1.68
1440987	70	0.3	< 0.5	1860	155	7	10	4	27	2.24	6	< 10	25	< 0.5	< 2	1.91	23	17	2.99	< 10	< 1	0.11	< 10	1.68

1440988 (missing)

Activation Laboratories Ltd. Report: A13-08328 (i)

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440952	0.134	0.098	1.32	< 2	10	196	0.21	7	< 2	< 10	158	< 10	8	3
1440953	0.165	0.097	1.46	< 2	10	277	0.21	2	< 2	< 10	154	< 10	9	3
1440954	0.161	0.090	0.88	3	10	230	0.22	< 1	< 2	< 10	174	< 10	8	3
1440955	0.166	0.106	1.31	< 2	10	381	0.21	< 1	< 2	< 10	167	< 10	8	3
1440956	0.097	0.123	1.55	< 2	6	94	0.21	3	< 2	< 10	143	< 10	7	3
1440957	0.122	0.099	1.67	< 2	6	164	0.19	< 1	2	< 10	125	< 10	7	3
1440958	0.105	0.098	1.58	2	6	133	0.19	2	3	< 10	131	< 10	7	3
1440959	0.076	0.094	1.12	< 2	7	62	0.16	< 1	2	< 10	132	< 10	8	2
1440960	0.095	0.097	0.72	< 2	8	58	0.20	< 1	< 2	< 10	143	< 10	9	2
1440961	0.035	0.044	0.56	58	< 1	164	< 0.01	< 1	< 2	< 10	11	< 10	3	1
1440962	0.097	0.063	0.46	2	7	65	0.22	2	< 2	< 10	124	< 10	8	2
1440963	0.105	0.103	1.04	< 2	8	141	0.19	< 1	< 2	< 10	144	< 10	9	2
1440964	0.122	0.083	< 0.01	3	5	50	0.20	8	< 2	< 10	84	< 10	12	14
1440965	0.074	0.106	0.70	3	7	57	0.12	3	< 2	< 10	115	< 10	10	2
1440966	0.075	0.109	0.73	< 2	7	58	0.13	2	3	< 10	120	< 10	10	2
1440967	0.082	0.109	0.39	< 2	8	64	0.20	2	< 2	< 10	143	< 10	8	2
1440968	0.088	0.107	0.71	3	7	76	0.18	2	< 2	< 10	141	< 10	9	3
1440969	0.095	0.114	0.41	< 2	8	79	0.22	4	< 2	< 10	155	< 10	8	3
1440970	0.081	0.105	0.61	< 2	8	82	0.20	3	< 2	< 10	131	< 10	9	2
1440971	0.103	0.106	0.60	< 2	7	135	0.20	4	< 2	< 10	158	< 10	7	2
1440972	0.088	0.102	0.56	2	9	106	0.20	4	< 2	< 10	151	< 10	8	2
1440973	0.071	0.102	1.41	2	8	47	0.17	3	< 2	< 10	135	< 10	7	3
1440974	0.077	0.108	0.95	< 2	7	41	0.19	7	< 2	< 10	136	< 10	8	3
1440975	0.106	0.095	1.02	2	7	73	0.18	< 1	< 2	< 10	133	< 10	8	2
1440976	0.069	0.106	1.29	< 2	7	46	0.12	6	< 2	< 10	126	< 10	7	2
1440977	0.072	0.108	1.10	< 2	8	48	0.18	4	< 2	< 10	140	< 10	8	3
1440978	0.073	0.106	1.01	3	6	99	0.17	3	< 2	< 10	130	< 10	6	2
1440979	0.077	0.103	2.04	< 2	5	64	0.15	9	< 2	< 10	115	< 10	6	3
1440980	0.087	0.113	1.20	< 2	5	62	0.17	3	< 2	< 10	121	< 10	7	3
1440981	0.033	0.044	0.55	57	< 1	162	< 0.01	4	< 2	< 10	11	< 10	3	1
1440982	0.076	0.097	1.94	3	5	75	0.16	5	< 2	< 10	120	< 10	7	3
1440983	0.080	0.112	1.65	< 2	8	53	0.19	6	< 2	< 10	152	< 10	7	3
1440984	0.160	0.082	0.01	3	6	58	0.26	10	3	< 10	90	< 10	12	13
1440985	0.087	0.112	1.46	2	8	55	0.19	3	< 2	< 10	152	< 10	7	3
1440986	0.085	0.114	0.98	< 2	7	51	0.19	7	< 2	< 10	138	< 10	7	2
1440987	0.084	0.115	0.99	2	7	52	0.20	6	< 2	< 10	141	< 10	7	2
1440988 (missing)														

Activation Laboratories Ltd. Report: A13-08328 (i)

Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		26.4	1.9	1070	743	12	24	581	669	0.31	356	< 10	213	0.8	1250	0.73	6	6	18.3	< 10	5	0.03	< 10	0.12
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-4 Meas		3.2	< 0.5	6200	133	301	35	39	66	2.92	109	< 10	51	1.4	23	0.81	13	52	2.82	< 10	< 1	1.46	37	1.51
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-6 Meas		0.4	< 0.5	71	1030	2	22	92	119	6.90	256	< 10	721	0.8	< 2	0.11	14	80	5.57	10	< 1	0.85	< 10	0.35
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
SAR-M (U.S.G.S.) Meas		3.0	4.5	320	3950	12	39	1010	928	0.94	37		168	1.0	< 2	0.28	10	92	2.49	< 10		0.20	47	0.33
SAR-M (U.S.G.S.) Cert		3.64	5.27	331	5220	13.10	41.50	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	16.8		2.94	57.4	0.50
SE58 Meas	603																							
SE58 Cert	607.00																							
SF57 Meas	781																							
SF57 Cert	848.000																							
SF57 Meas	817																							
SF57 Cert	848.000																							
1440959 Orig	42																							
1440959 Dup	39																							
1440963 Orig		0.9	< 0.5	1910	148	5	8	3	35	2.27	< 2	< 10	41	< 0.5	< 2	2.14	11	16	2.74	< 10	< 1	0.15	< 10	1.78
1440963 Dup		0.9	< 0.5	1930	149	4	9	2	35	2.33	< 2	< 10	42	< 0.5	< 2	2.14	10	16	2.77	< 10	< 1	0.15	< 10	1.81
1440976 Orig		1.3	< 0.5	3260	174	< 1	10	7	41	2.17	< 2	13	51	< 0.5	< 2	2.62	11	15	2.96	< 10	< 1	0.14	< 10	1.63
1440976 Dup		1.4	< 0.5	3460	181	1	10	5	41	2.25	5	13	51	< 0.5	< 2	2.68	11	15	3.10	< 10	1	0.15	< 10	1.69
1440980 Orig	133																							
1440980 Dup	129																							
1440982 Orig	79	0.9	< 0.5	2020	163	8	11	< 2	25	1.92	3	29	35	< 0.5	< 2	2.53	13	13	3.92	< 10	< 1	0.10	< 10	1.32
1440982 Split	92	0.9	< 0.5	2060	166	7	10	7	26	1.95	7	29	33	< 0.5	< 2	2.55	13	14	4.04	< 10	< 1	0.10	< 10	1.35
1440987 Orig	70	0.3	< 0.5	1860	155	7	10	4	27	2.24	6	< 10	25	< 0.5	< 2	1.91	23	17	2.99	< 10	< 1	0.11	< 10	1.68
1440987 Split	85	0.3	< 0.5	1780	149	7	9	< 2	25	2.15	< 2	< 10	25	< 0.5	< 2	1.84	22	16	2.84	< 10	< 1	0.10	< 10	1.61
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							

Quality Control														
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.035	0.032	0.16	59	< 1	117		17	< 2	27	71	113	21	10
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	0.114	0.114	1.50	3	5	68		2	< 2	< 10	77	19	10	8
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.059	0.032	0.01	3	13	22		< 1	< 2	< 10	157	< 10	4	8
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.025	0.062		4	2	27	0.04	6	< 2	< 10	30	< 10	19	
SAR-M (U.S.G.S.) Cert	1.140	0.070		6.00	7.83	151.0	2.7	0.96	2.88	3.57	67.20	9.78	28.00	
SE58 Meas														
SE58 Cert														
SF57 Meas														
SF57 Cert														
SF57 Meas														
SF57 Cert														
1440959 Orig														
1440959 Dup														
1440963 Orig	0.105	0.103	1.02	< 2	8	139	0.19	< 1	< 2	< 10	144	< 10	9	2
1440963 Dup	0.105	0.104	1.05	< 2	8	143	0.19	5	< 2	< 10	145	< 10	9	2
1440976 Orig	0.067	0.104	1.25	2	7	45	0.12	10	< 2	< 10	123	< 10	7	2
1440976 Dup	0.071	0.109	1.33	< 2	7	46	0.12	2	2	< 10	128	< 10	8	2
1440980 Orig														
1440980 Dup														
1440982 Orig	0.076	0.097	1.94	3	5	75	0.16	5	< 2	< 10	120	< 10	7	3
1440982 Split	0.071	0.100	2.05	< 2	5	76	0.16	5	< 2	< 10	123	< 10	7	3
1440987 Orig	0.084	0.115	0.99	2	7	52	0.20	6	< 2	< 10	141	< 10	7	2
1440987 Split	0.081	0.110	0.95	< 2	6	50	0.19	< 1	< 2	< 10	133	< 10	7	2
Method Blank	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank														
Method Blank														
Method Blank														



Date Submitted: 06-Aug-13
Invoice No.: A13-08981
Invoice Date: 14-Aug-13
Your Reference: MAN-PRIME

Sunrise Resources Ltd.
650 St. Annes Road
Armstrong BC V0E 1B5
Canada

ATTN: Irvin Eisler

CERTIFICATE OF ANALYSIS

199 Pulp samples were submitted for analysis.

The following analytical package was requested: Code 8-AR Kamloops Code 8-Assays Kamloops

REPORT **A13-08981**

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Notes:

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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Analyte Symbol	Cu
Unit Symbol	%
Detection Limit	0.001
Analysis Method	ICP-OES
1440694	0.076
1440695	0.083
1440696	0.081
1440698	0.130
1440699	0.158
1440700	0.132
1440701	0.260
1440703	0.121
1440704	0.089
1440711	0.134
1440712	0.106
1440713	0.074
1440714	0.038
1440715	0.062
1440716	0.056
1440717	0.039
1440718	0.223
1440719	0.196
1440720	0.072
1440721	0.066
1440735	0.126
1440736	0.105
1440737	0.171
1440764	0.272
1440765	0.428
1440766	0.148
1440805	0.104
1440832	0.094
1440833	0.125
1440834	0.081
1440835	0.059
1440836	0.044
1440837	0.076
1440838	0.067
1440839	0.092
1440840	0.052
1440841	0.061
1440842	0.083
1440843	0.081
1440852	0.112
1440857	0.111
1440861	0.116
1440862	0.142
1440863	0.178
1440864	0.101
1440865	0.076
1440873	0.079
1440874	0.212
1440876	0.094
1440877	0.079
1440878	0.192
1440879	0.104

Analyte Symbol	Cu
Unit Symbol	%
Detection Limit	0.001
Analysis Method	ICP-OES
1440880	0.055
1440881	0.037
1440882	0.051
1440883	0.050
1440884	0.311
1440885	0.069
1440886	0.120
1440887	0.088
1440888	0.155
1440889	0.095
1440890	0.087
1440891	0.102
1440892	0.152
1440893	0.132
1440894	0.256
1440895	0.363
1440896	0.206
1440897	0.004
1440898	0.180
1440899	0.148
1440900	0.147
1440901	0.235
1440902	0.078
1440905	0.066
1440906	0.113
1440907	0.205
1440908	0.334
1440909	0.326
1440910	0.412
1440911	0.184
1440912	0.366
1440913	0.265
1440914	0.135
1440915	0.286
1440916	0.227
1440928	0.282
1440929	0.547
1440930	0.378
1440931	0.354
1440932	0.218
1440933	0.165
1440934	0.288
1440935	0.280
1440936	0.167
1440937	0.210
1440938	0.061
1440939	0.270
1440941	0.236
1440942	0.126
1440943	0.118
1440945	0.076
1440946	0.075

Analyte Symbol	Cu
Unit Symbol	%
Detection Limit	0.001
Analysis Method	ICP-OES

1440948	0.141
1440949	0.173
1440950	0.174
1440951	0.060
1440952	0.109
1440953	0.433
1440954	0.119
1440955	0.185
1440956	0.186
1440957	0.271
1440958	0.244
1440959	0.207
1440960	0.192
1440962	0.092
1440963	0.195
1440965	0.099
1440967	0.059
1440968	0.116
1440969	0.102
1440970	0.267
1440971	0.052
1440972	0.219
1440973	0.406
1440974	0.406
1440975	0.164
1440976	0.335
1440977	0.202
1440978	0.167
1440979	0.165
1440980	0.371
1440982	0.198
1440983	0.169
1440985	0.139
1440986	0.183
1440573	0.126
1440574	0.155
1440575	0.112
1440576	0.130
1440577	0.096
1440578	0.112
1440579	0.172
1440613	0.077
1440614	0.124
1440615	0.065
1440616	0.069
1440617	0.095
1440618	0.065
1440627	0.249
1440628	0.248
1440629	0.280
1440630	0.169
1440631	0.211

Analyte Symbol	Cu
Unit Symbol	%
Detection Limit	0.001
Analysis Method	ICP-OES
1440633	0.254
1440634	0.296
1440636	0.294
1440637	0.207
1440638	0.033
1440639	0.278
1440640	0.214
1440641	0.197
1440642	0.273
1440643	0.170
1440644	0.126
1440645	0.239
1440646	0.178
1440647	0.248
1440649	0.233
1440650	0.259
1440651	0.179
1440652	0.223
1440653	0.363
1440654	0.224
1440655	0.376
1440656	0.241
1440657	0.254
1440659	0.249
1440660	0.302
1440662	0.247
1440663	0.171
1440664	0.203
1440665	0.129
1440666	0.177
1440667	0.152
1440669	0.436
1440670	0.270
1440671	0.278
1440672	0.291
1440673	0.443
1440674	0.226
1440675	0.350
1440676	0.429
1440503	0.529
1440505	0.358
1440502	0.170
1440501	0.781

Quality Control

Analyte Symbol	Cu
Unit Symbol	%
Detection Limit	0.001
Analysis Method	ICP-OES

PTC-1a Meas	13.5
PTC-1a Cert	13.51
PTC-1a Meas	13.5
PTC-1a Cert	13.51
MP-1b Meas	3.15
MP-1b Cert	3.069
MP-1b Meas	3.01
MP-1b Cert	3.069
MP-1b Meas	3.08
MP-1b Cert	3.069
CCu-1d Meas	23.9
CCu-1d Cert	23.93
CCu-1d Meas	23.9
CCu-1d Cert	23.93
CCu-1d Meas	23.9
CCu-1d Cert	23.93
CZN-4 Meas	0.401
CZN-4 Cert	0.403
CZN-4 Meas	0.394
CZN-4 Cert	0.403
CZN-4 Meas	0.404
CZN-4 Cert	0.403
1440714 Orig	0.034
1440714 Dup	0.042
1440805 Orig	0.105
1440805 Dup	0.103
1440862 Orig	0.141
1440862 Dup	0.142
1440884 Orig	0.311
1440884 Dup	0.311
1440907 Orig	0.203
1440907 Dup	0.207
1440932 Orig	0.212
1440932 Dup	0.223
1440956 Orig	0.189
1440956 Dup	0.183
1440973 Orig	0.410
1440973 Dup	0.401
1440615 Orig	0.065
1440615 Dup	0.064
1440639 Orig	0.278
1440639 Dup	0.277
1440656 Orig	0.238
1440656 Dup	0.243
1440673 Orig	0.441
1440673 Dup	0.444
Method Blank	0.002

Final Report Activation Laboratories

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440506	17	0.4	< 0.5	916	481	1	14	< 2	42	2.83	11	11	152	< 0.5	< 2	2.43	16	26	5.9	< 10
1440507	9	< 0.2	< 0.5	464	487	< 1	19	< 2	36	2.65	5	< 10	237	< 0.5	< 2	2	16	25	6.33	< 10
1440508	14	< 0.2	< 0.5	501	650	2	20	< 2	57	3.46	< 2	< 10	353	< 0.5	< 2	2.96	19	27	6.49	< 10
1440509	13	< 0.2	< 0.5	581	648	< 1	19	< 2	49	3.11	2	< 10	234	< 0.5	< 2	3.38	20	23	6.06	< 10
1440510	7	0.2	< 0.5	317	871	1	20	< 2	49	3.46	< 2	< 10	44	< 0.5	< 2	5.83	23	20	5.6	< 10
1440511	12	< 0.2	< 0.5	416	807	< 1	21	< 2	48	3.86	3	< 10	40	< 0.5	< 2	3.8	21	23	6.22	< 10
1440512	12	0.4	< 0.5	367	823	2	19	< 2	53	3.57	< 2	< 10	46	< 0.5	< 2	5.45	21	20	5.81	< 10
1440513	28	0.5	< 0.5	541	937	< 1	18	2	55	2.8	5	< 10	44	< 0.5	< 2	6.66	20	16	4.76	< 10
1440514	94	1.3	0.9	1170	1130	1	16	< 2	62	2.6	6	< 10	45	< 0.5	< 2	6.58	17	11	4.77	< 10
1440515	41	0.8	0.8	537	1120	< 1	19	6	61	2.43	6	14	42	< 0.5	< 2	7.1	18	11	5.14	< 10
1440516	30	0.6	< 0.5	1060	1060	1	13	3	67	2.9	5	11	34	< 0.5	< 2	6.66	18	7	5.01	< 10
1440517	12	0.5	1.3	451	923	2	10	8	92	2.48	17	11	23	< 0.5	< 2	5.32	19	5	5.25	< 10
1440518	19	0.5	< 0.5	748	1110	< 1	9	10	94	3.04	< 2	< 10	37	< 0.5	< 2	5.81	15	6	4.98	< 10
1440519	9	0.3	< 0.5	928	1190	< 1	8	< 2	70	3.17	3	< 10	80	< 0.5	< 2	4.77	14	9	5.32	< 10
1440520	7	< 0.2	0.7	537	924	< 1	9	< 2	63	3.11	4	< 10	472	< 0.5	< 2	4.41	13	8	5.1	< 10
1440521	7	0.3	< 0.5	407	957	< 1	6	< 2	79	3.51	9	< 10	35	< 0.5	< 2	5.16	18	6	6.19	< 10
1440522	6	< 0.2	< 0.5	508	1060	< 1	8	2	74	3.48	< 2	< 10	152	< 0.5	< 2	5.04	21	7	5.15	< 10
1440523	7	< 0.2	< 0.5	516	965	1	9	< 2	72	2.91	4	< 10	99	< 0.5	< 2	3.88	18	9	5.49	< 10
1440524	8	0.3	< 0.5	344	742	< 1	9	4	64	2.85	< 2	< 10	110	< 0.5	< 2	4.2	13	8	5.55	< 10
1440525	13	0.4	< 0.5	523	816	2	10	5	68	3.01	< 2	< 10	217	< 0.5	< 2	4.35	12	8	4.24	< 10
1440526	< 5	< 0.2	< 0.5	261	627	< 1	9	< 2	64	2.39	< 2	< 10	347	< 0.5	< 2	1.82	11	9	4.92	< 10
1440527	6	0.3	< 0.5	481	657	< 1	9	3	64	2.4	5	< 10	133	< 0.5	< 2	2.2	15	9	5.47	< 10
1440528	8	0.3	0.7	1180	726	< 1	11	< 2	70	2.6	4	< 10	70	< 0.5	< 2	1.97	19	10	5.52	< 10
1440529	9	0.3	< 0.5	1240	722	< 1	10	3	71	2.6	5	< 10	69	< 0.5	< 2	1.97	18	10	5.58	< 10
1440530	354	24.8	< 0.5	3630	406	761	16	44	46	0.43	33	< 10	107	< 0.5	< 2	1.35	4	23	1.81	< 10
1440531	5	< 0.2	< 0.5	430	801	4	10	< 2	67	2.48	< 2	< 10	120	< 0.5	< 2	1.86	16	10	6.27	< 10
1440532	< 5	< 0.2	< 0.5	348	652	2	9	< 2	63	2.43	2	< 10	84	< 0.5	< 2	1.58	14	10	5.59	< 10
1440533	7	< 0.2	< 0.5	528	928	2	11	< 2	69	2.37	< 2	< 10	242	< 0.5	2	2.4	16	11	5.76	< 10
1440534	< 5	< 0.2	< 0.5	112	900	2	11	< 2	66	2.55	< 2	< 10	245	< 0.5	< 2	1.85	14	10	5.71	< 10
1440535	< 5	< 0.2	< 0.5	29	633	< 1	15	5	65	1.61	2	< 10	70	< 0.5	3	2.09	15	19	3.51	< 10
1440536	6	< 0.2	0.7	325	815	1	8	< 2	61	2.4	2	< 10	378	< 0.5	< 2	2.42	16	11	5.28	< 10
1440537	< 5	< 0.2	< 0.5	375	689	1	9	2	58	2.52	8	< 10	384	< 0.5	< 2	3.54	13	8	4.59	< 10
1440538	16	0.4	< 0.5	381	1090	< 1	14	9	116	3.24	7	< 10	68	< 0.5	< 2	4.89	16	9	4.66	< 10
1440539	62	0.9	< 0.5	899	1290	1	19	6	107	3.04	11	< 10	56	< 0.5	< 2	6.43	21	18	5.04	< 10
1440540	41	0.7	< 0.5	997	1500	1	21	6	126	3.3	14	< 10	55	< 0.5	< 2	7.43	19	21	5.34	< 10
1440541	44	1	0.7	956	1300	3	25	4	110	2.64	20	11	62	< 0.5	< 2	6.99	22	10	5.06	< 10
1440542	14	0.3	< 0.5	266	1470	< 1	21	5	103	2.73	11	< 10	44	< 0.5	< 2	6.6	25	17	5.44	< 10
1440543	8	< 0.2	< 0.5	73	1340	< 1	23	5	96	3.46	12	< 10	41	< 0.5	5	5.12	24	30	5.08	< 10
1440544	10	< 0.2	0.6	72	1560	< 1	27	< 2	158	3.63	< 2	< 10	105	< 0.5	3	5.07	20	36	5.24	< 10
1440545	23	< 0.2	< 0.5	118	1650	< 1	25	< 2	156	3.46	7	< 10	73	< 0.5	< 2	4.97	24	33	5.37	< 10
1440546	8	< 0.2	< 0.5	97	1420	< 1	25	3	110	3.05	6	< 10	91	< 0.5	< 2	4.95	18	31	4.95	< 10
1440547	7	< 0.2	< 0.5	89	1470	< 1	24	3	103	2.92	6	< 10	201	< 0.5	< 2	4.15	17	35	4.56	< 10
1440548	13	< 0.2	< 0.5	176	1570	< 1	25	< 2	97	3.21	< 2	< 10	83	< 0.5	< 2	4.64	21	38	5.34	< 10
1440549	39	0.4	< 0.5	239	1420	< 1	20	< 2	89	2.81	6	< 10	43	< 0.5	< 2	5.99	20	21	5.15	< 10
1440550	12	< 0.2	< 0.5	233	1400	< 1	23	< 2	100	3.09	< 2	< 10	179	< 0.5	< 2	4.87	21	30	5.25	< 10
1440551	13	< 0.2	< 0.5	150	1320	< 1	24	3	89	3.05	9	< 10	66	< 0.5	< 2	3.53	20	34	5.27	< 10

Report: A13-07415
 Report Date: 7/12/2013

Final Report Activation Laboratories

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440552	9	< 0.2	0.7	165	1400	< 1	22	< 2	101	3.25	7	< 10	108	< 0.5	< 2	3.54	19	34	5.35	< 10
1440553	< 5	< 0.2	< 0.5	140	1330	< 1	23	< 2	102	3.8	9	< 10	348	< 0.5	< 2	4.46	18	37	5.44	< 10
1440554	5	< 0.2	< 0.5	118	1420	< 1	28	3	123	3.35	11	< 10	178	< 0.5	< 2	3.14	20	41	5.15	< 10
1440555	5	< 0.2	< 0.5	117	1410	< 1	23	2	122	3.27	6	< 10	176	< 0.5	< 2	3.14	20	41	5.06	< 10
1440556	341	24.6	< 0.5	3720	406	753	16	44	46	0.43	33	< 10	144	< 0.5	< 2	1.34	3	23	1.83	< 10
1440557	11	< 0.2	0.5	84	1410	2	28	< 2	130	3.35	6	< 10	112	< 0.5	< 2	3.6	22	45	5.12	< 10
1440558	7	< 0.2	1	97	1250	< 1	25	< 2	94	3.08	2	< 10	157	< 0.5	< 2	3.24	19	44	4.79	< 10
1440559	25	< 0.2	< 0.5	103	1380	< 1	25	3	108	2.9	4	< 10	96	< 0.5	< 2	5.77	16	32	4.65	< 10
1440560	7	< 0.2	< 0.5	28	658	< 1	16	5	65	1.86	3	< 10	77	< 0.5	< 2	2.37	15	18	3.79	< 10
1440561	11	< 0.2	< 0.5	112	1160	< 1	27	< 2	70	3.47	< 2	< 10	69	< 0.5	< 2	4.06	20	41	5.07	< 10
1440562	8	< 0.2	< 0.5	104	1100	< 1	27	< 2	79	3.37	4	< 10	89	< 0.5	< 2	3.38	20	43	5.08	< 10
1440563	25	< 0.2	< 0.5	110	797	< 1	25	3	74	3.42	9	< 10	36	< 0.5	< 2	3.56	23	37	5.14	< 10
1440564	24	0.2	< 0.5	176	807	< 1	27	4	79	3.47	6	< 10	36	< 0.5	< 2	3.84	21	37	5.07	< 10
1440565	7	< 0.2	< 0.5	138	862	< 1	25	< 2	68	3.26	< 2	< 10	90	< 0.5	< 2	2.88	19	41	4.71	< 10
1440566	8	< 0.2	< 0.5	84	961	< 1	23	< 2	82	2.78	8	< 10	99	< 0.5	< 2	3.05	20	39	4.58	< 10
1440567	8	< 0.2	< 0.5	96	838	< 1	25	< 2	69	2.92	7	< 10	118	< 0.5	< 2	2.64	18	39	4.68	< 10
1440568	15	< 0.2	0.5	82	779	< 1	22	< 2	72	2.91	3	53	93	< 0.5	< 2	3.26	19	35	4.27	< 10
1440569	17	< 0.2	< 0.5	72	815	< 1	24	6	67	2.6	15	< 10	97	< 0.5	< 2	2.93	22	36	4.24	< 10
1440570	8	< 0.2	< 0.5	110	871	< 1	19	4	63	2.77	11	< 10	72	< 0.5	< 2	2.81	16	36	4.66	< 10
1440571	12	< 0.2	< 0.5	127	794	< 1	20	< 2	64	2.81	5	< 10	76	< 0.5	< 2	2.16	19	36	4.88	< 10
1440572	11	< 0.2	< 0.5	346	962	< 1	20	7	77	2.75	7	< 10	81	< 0.5	< 2	2.36	18	33	5.37	< 10
1440573	27	0.4	1.1	1340	1050	1	25	3	88	2.69	10	< 10	79	< 0.5	< 2	3.17	20	42	6.06	< 10
1440574	25	0.6	< 0.5	1610	1040	1	26	< 2	76	2.42	3	< 10	106	< 0.5	< 2	3.07	21	37	6.24	< 10
1440575	16	0.5	1.4	1150	1180	< 1	19	< 2	90	2.18	9	< 10	113	< 0.5	< 2	6.1	19	31	5.94	< 10
1440576	27	0.5	< 0.5	1300	1150	< 1	24	< 2	86	2.25	6	< 10	75	< 0.5	< 2	3.57	19	39	5.82	< 10
1440577	20	0.5	0.8	1010	1110	< 1	26	5	150	2.66	8	< 10	69	< 0.5	< 2	3.12	20	43	5.63	< 10
1440578	30	0.4	0.6	1130	1130	< 1	25	< 2	102	2.61	< 2	< 10	82	< 0.5	< 2	3.07	20	42	5.67	< 10
1440579	64	0.8	< 0.5	1610	1140	2	22	< 2	75	2.78	6	11	41	< 0.5	< 2	6.38	19	31	5.56	< 10
1440580	395	24.3	< 0.5	3690	413	766	17	45	46	0.44	34	< 10	127	< 0.5	< 2	1.37	4	23	1.86	< 10
1440581	69	< 0.2	1	654	1100	3	25	< 2	93	2.75	2	< 10	54	< 0.5	< 2	4.27	24	31	6.29	< 10
1440582	30	0.6	0.6	319	1150	< 1	23	< 2	71	2.9	7	< 10	83	< 0.5	< 2	4.04	22	30	5.94	< 10
1440583	13	< 0.2	< 0.5	254	1240	< 1	22	< 2	86	2.86	< 2	< 10	78	< 0.5	< 2	3.75	19	28	5.92	< 10
1440584	47	0.3	1.3	282	1410	< 1	24	< 2	162	3.33	6	< 10	27	< 0.5	< 2	5.05	23	29	6.23	< 10
1440585	37	< 0.2	< 0.5	130	842	< 1	23	< 2	61	3.04	3	< 10	41	< 0.5	< 2	4.59	22	32	5.48	< 10
1440586	18	< 0.2	< 0.5	64	844	< 1	26	2	56	3.22	3	< 10	38	< 0.5	< 2	5.76	19	33	5.4	< 10
1440587	19	< 0.2	0.6	67	808	< 1	26	2	69	3.08	< 2	< 10	46	< 0.5	< 2	4.24	19	37	5.12	< 10
1440588	17	< 0.2	< 0.5	248	868	< 1	28	3	62	3.16	< 2	< 10	32	< 0.5	< 2	3.05	21	42	5.31	< 10
1440589	17	0.2	1	141	720	< 1	28	3	71	2.9	< 2	< 10	37	< 0.5	< 2	4.45	21	36	5.08	< 10
1440590	28	< 0.2	< 0.5	152	578	< 1	25	< 2	51	2.42	4	< 10	35	< 0.5	< 2	5.09	21	31	4.49	< 10
1440591	27	< 0.2	< 0.5	110	915	< 1	29	< 2	43	3.1	4	< 10	26	< 0.5	< 2	4.92	26	40	5.32	< 10
1440592	31	< 0.2	0.5	200	964	< 1	29	< 2	58	3.5	7	< 10	27	< 0.5	< 2	4.06	21	42	5.77	< 10
1440593	19	< 0.2	< 0.5	113	863	< 1	28	< 2	53	3.67	3	< 10	43	< 0.5	< 2	3.49	23	43	5.63	< 10
1440594	39	< 0.2	< 0.5	175	840	1	25	< 2	44	2.53	3	< 10	22	< 0.5	< 2	5.11	33	24	4.98	< 10
1440595	89	0.4	< 0.5	616	970	< 1	24	4	61	2.89	5	< 10	52	< 0.5	< 2	2.64	17	29	6	< 10
1440596	25	0.3	< 0.5	553	891	< 1	21	< 2	50	3.16	8	< 10	43	< 0.5	< 2	3.09	20	26	5.39	< 10
1440597	80	0.5	< 0.5	1170	809	< 1	23	< 2	26	3.26	10	< 10	38	< 0.5	< 2	3.5	23	26	5.55	< 10

Final Report
Activation Laboratories

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440598	50	0.4	< 0.5	588	837	< 1	19	< 2	50	3.13	5	< 10	36	< 0.5	< 2	3.36	17	24	5.08	< 10
1440599	42	0.4	< 0.5	632	1020	< 1	24	< 2	68	3.08	6	< 10	58	< 0.5	< 2	3.17	23	28	5.97	< 10
1440600	25	0.3	< 0.5	534	931	< 1	23	< 2	59	3.02	4	< 10	84	< 0.5	< 2	2.64	21	28	5.88	< 10
1440601	61	0.3	< 0.5	562	947	< 1	22	5	68	3.47	12	< 10	44	< 0.5	< 2	3.95	24	31	6.84	< 10
1440602	28	< 0.2	< 0.5	346	985	< 1	25	< 2	57	3.45	7	< 10	87	< 0.5	< 2	3.26	19	29	6.84	< 10
1440603	39	0.3	0.6	423	1020	< 1	22	< 2	66	3.24	5	< 10	39	< 0.5	< 2	4.51	21	27	6.43	< 10
1440604	28	0.3	0.5	393	970	< 1	22	< 2	59	3.68	4	< 10	81	< 0.5	< 2	4.36	24	29	6.35	< 10
1440605	24	< 0.2	0.6	210	870	< 1	24	< 2	52	3.46	6	< 10	42	< 0.5	< 2	3.15	17	28	5.72	< 10
1440606	25	< 0.2	< 0.5	180	808	< 1	19	< 2	50	3.31	10	< 10	44	< 0.5	< 2	3.31	17	26	5.33	< 10
1440607	362	24.2	< 0.5	3500	394	727	15	46	45	0.41	33	< 10	112	< 0.5	< 2	1.3	3	22	1.77	< 10
1440608	60	< 0.2	< 0.5	139	451	3	9	< 2	37	1.6	4	< 10	17	< 0.5	< 2	1.3	10	12	2.31	< 10
1440609	< 5	< 0.2	< 0.5	37	561	< 1	18	5	65	2.15	< 2	< 10	62	< 0.5	< 2	1.46	16	20	3.72	< 10
1440610	67	0.2	< 0.5	322	1280	< 1	25	< 2	81	3.82	12	< 10	41	< 0.5	< 2	2.45	24	30	6.7	< 10
1440611	41	0.4	0.5	326	1190	< 1	27	< 2	76	3.89	5	< 10	82	< 0.5	< 2	2.16	21	33	6.55	< 10
1440612	62	0.3	< 0.5	468	983	< 1	26	< 2	63	3.31	4	< 10	53	< 0.5	< 2	2.27	25	28	6.67	< 10
1440613	66	0.4	< 0.5	734	1000	< 1	22	< 2	68	3.4	8	< 10	57	< 0.5	< 2	3.33	20	33	5.87	< 10
1440614	40	0.9	0.6	1340	1040	< 1	24	< 2	68	3.13	7	< 10	52	< 0.5	< 2	3.47	23	37	6.38	< 10
1440615	97	0.9	0.6	654	1310	< 1	19	7	77	2.69	31	< 10	53	< 0.5	< 2	9.12	17	23	5.32	< 10
1440616	38	0.5	0.5	709	955	< 1	23	< 2	71	3.41	7	< 10	51	< 0.5	< 2	2.44	20	31	6.06	< 10
1440617	28	0.5	< 0.5	944	935	< 1	24	< 2	61	3.15	3	< 10	58	< 0.5	< 2	2.85	18	34	5.96	< 10
1440618	46	0.2	< 0.5	671	984	< 1	25	< 2	68	3.35	15	< 10	51	< 0.5	< 2	4.35	26	31	6.58	< 10
1440619	23	0.2	< 0.5	271	988	< 1	25	< 2	64	3.32	4	< 10	40	< 0.5	< 2	3.73	23	40	6.32	< 10
1440620	47	0.2	1	367	963	< 1	25	< 2	54	3.51	6	< 10	48	< 0.5	< 2	4.05	22	27	6.75	< 10
1440621	118	0.4	0.5	407	698	< 1	23	4	43	2.92	11	< 10	38	< 0.5	< 2	5.55	20	22	5.99	< 10
1440622	55	0.3	0.5	376	847	< 1	25	< 2	44	2.99	5	< 10	50	< 0.5	< 2	3.76	17	30	6.19	< 10
1440623	50	< 0.2	< 0.5	358	821	2	22	< 2	50	3.26	9	< 10	53	< 0.5	< 2	5.52	23	27	5.57	< 10
1440624	28	0.2	< 0.5	420	931	< 1	26	< 2	53	3.27	3	< 10	76	< 0.5	< 2	3.02	20	36	6.54	< 10
1440625	89	0.4	< 0.5	594	1040	1	24	4	55	2.92	4	< 10	55	< 0.5	< 2	4.72	20	31	5.58	< 10
1440626	30	0.4	< 0.5	591	977	< 1	20	< 2	48	3.06	6	< 10	75	< 0.5	< 2	3.66	17	32	5.3	< 10
1440627	59	0.8	0.6	2330	1060	< 1	27	3	56	3.13	6	< 10	80	< 0.5	< 2	3.78	21	36	6.31	< 10
1440628	91	1	< 0.5	2350	820	< 1	24	< 2	49	2.91	3	< 10	31	< 0.5	< 2	4.05	21	33	6.15	< 10
1440629	741	2.2	< 0.5	2910	959	1	24	3	55	2.91	15	< 10	21	< 0.5	< 2	4.88	28	33	6.97	< 10
1440630	62	1.2	0.5	1750	1050	< 1	23	5	72	2.87	10	< 10	50	< 0.5	< 2	5.78	20	32	5.91	< 10
1440631	72	1.9	< 0.5	2330	990	2	24	3	79	2.53	10	< 10	44	< 0.5	< 2	4.63	21	37	6.32	< 10
1440632	358	24.9	< 0.5	3670	410	761	15	45	46	0.43	31	< 10	96	< 0.5	< 2	1.35	4	24	1.85	< 10
1440633	75	1.2	< 0.5	2520	963	3	24	3	68	2.28	4	< 10	25	< 0.5	< 2	3.1	20	33	5.45	< 10
1440634	101	1.2	0.7	2890	971	2	23	< 2	58	2.35	8	< 10	42	< 0.5	< 2	3.76	21	32	5.77	< 10
1440635	< 5	< 0.2	< 0.5	53	511	< 1	15	5	62	1.9	< 2	< 10	55	< 0.5	< 2	1.4	15	18	3.51	< 10
1440636	89	1.3	< 0.5	2840	928	2	22	4	62	2.35	9	< 10	45	< 0.5	< 2	3.52	20	34	5.63	< 10
1440637	47	0.8	0.7	1990	1080	1	22	< 2	69	2.68	5	< 10	55	< 0.5	< 2	4.35	19	30	5.74	< 10
1440638	10	< 0.2	0.5	338	1020	< 1	10	7	80	2.83	5	< 10	115	< 0.5	< 2	4.64	19	5	6.52	< 10
1440639	79	1.1	0.7	2710	843	3	24	4	71	2.44	7	< 10	43	< 0.5	< 2	3.86	20	35	5.15	< 10
1440640	95	1	< 0.5	2070	876	3	20	3	60	2.23	3	< 10	27	< 0.5	< 2	5.21	19	28	5.17	< 10
1440641	172	1.1	< 0.5	1980	1050	2	22	< 2	67	2.4	6	< 10	39	< 0.5	< 2	4.99	20	30	5.57	< 10
1440642	78	1.3	< 0.5	2620	1010	< 1	24	5	55	2.42	9	< 10	33	< 0.5	< 2	4.11	19	34	5.48	< 10
1440643	52	1.1	0.6	1830	915	< 1	23	< 2	58	2.41	< 2	< 10	60	< 0.5	< 2	3.3	17	39	5.53	< 10

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440644	42	0.9	< 0.5	1290	950	< 1	21	3	64	2.07	6	< 10	50	< 0.5	< 2	3.66	15	35	5.38	< 10
1440645	68	2	0.6	2390	842	1	24	3	69	2.14	4	< 10	50	< 0.5	< 2	3.98	20	44	5.71	< 10
1440646	75	4	0.7	1830	978	< 1	23	8	68	1.99	30	< 10	39	< 0.5	< 2	5.22	19	33	5.37	< 10
1440647	126	2.8	1.9	2530	942	1	23	6	231	2.17	46	< 10	25	< 0.5	< 2	4.72	18	31	5.87	< 10
1440648	127	2.7	2.6	2440	938	2	22	12	225	2.11	43	< 10	28	< 0.5	< 2	4.73	18	29	5.6	< 10
1440649	69	1.4	< 0.5	2280	825	2	21	< 2	78	2.37	7	< 10	47	< 0.5	< 2	3.06	17	32	5.14	< 10
1440650	89	0.9	0.5	2610	625	1	22	4	45	2.28	4	< 10	51	< 0.5	< 2	3.3	16	33	5.18	< 10
1440651	54	0.8	< 0.5	1770	694	2	23	< 2	55	2.37	6	< 10	54	< 0.5	< 2	3.55	16	36	5.73	< 10
1440652	58	0.7	0.7	2380	674	3	24	< 2	49	2.44	8	< 10	44	< 0.5	< 2	3.43	21	35	5.34	< 10
1440653	104	1.2	< 0.5	3430	584	3	23	5	40	2.45	7	< 10	43	< 0.5	< 2	4.92	22	34	5	< 10
1440654	47	0.9	< 0.5	2330	711	< 1	24	7	42	2.58	7	< 10	42	< 0.5	< 2	3.52	18	37	5.54	< 10
1440655	78	1.3	< 0.5	3610	790	< 1	25	4	45	2.69	5	< 10	33	< 0.5	< 2	4.3	20	36	5.91	< 10
1440656	44	0.8	< 0.5	2440	800	< 1	26	< 2	49	2.73	4	< 10	34	< 0.5	< 2	3.32	17	37	5.43	< 10
1440657	42	0.7	< 0.5	2500	718	2	22	< 2	41	2.54	3	< 10	54	< 0.5	< 2	4.18	19	33	5.3	< 10
1440658	376	24.6	< 0.5	3570	400	722	15	47	45	0.42	31	< 10	90	< 0.5	< 2	1.32	3	22	1.8	< 10
1440659	53	1	< 0.5	2400	644	4	20	4	42	2.54	5	< 10	52	< 0.5	< 2	3.43	14	26	5.78	< 10
1440660	70	1.4	< 0.5	3150	722	< 1	23	5	48	2.46	12	< 10	54	< 0.5	< 2	4.25	18	26	5.92	< 10
1440661	< 5	< 0.2	< 0.5	42	524	< 1	17	5	66	2.06	3	< 10	57	< 0.5	< 2	1.44	16	20	3.83	< 10
1440662	84	0.9	0.8	2780	975	2	24	11	76	2.68	11	< 10	31	< 0.5	< 2	4.68	21	32	5.73	< 10
1440663	36	0.6	< 0.5	1980	967	1	24	4	52	2.58	< 2	< 10	51	< 0.5	< 2	3.93	22	36	5.41	< 10
1440664	43	0.7	< 0.5	2220	990	2	25	< 2	49	2.68	4	< 10	43	< 0.5	< 2	6.1	19	35	5.46	< 10
1440665	61	0.8	0.6	1300	919	1	24	2	48	2.7	8	< 10	48	< 0.5	< 2	5.74	20	28	5.06	< 10
1440666	42	0.6	0.6	1840	924	< 1	21	4	48	2.61	6	< 10	54	< 0.5	< 2	6.88	17	28	4.94	< 10
1440667	74	1	< 0.5	1530	814	2	22	< 2	63	2.41	5	< 10	48	< 0.5	< 2	5.13	17	25	5.53	< 10
1440668	69	1	< 0.5	1530	796	2	21	< 2	62	2.42	5	< 10	53	< 0.5	< 2	4.93	19	25	5.29	< 10
1440669	66	1.3	0.5	4430	784	< 1	26	< 2	43	2.71	< 2	< 10	34	< 0.5	< 2	4.7	17	34	5.71	< 10
1440670	56	0.9	< 0.5	2590	686	< 1	21	< 2	39	2.45	< 2	< 10	43	< 0.5	< 2	3.67	18	33	6	< 10
1440671	41	0.6	< 0.5	2510	640	< 1	19	< 2	37	2.44	5	< 10	83	< 0.5	< 2	4.22	16	28	5.37	< 10
1440672	61	0.7	< 0.5	3110	585	< 1	22	< 2	38	2.44	< 2	< 10	50	< 0.5	< 2	2.95	18	32	5.86	< 10
1440673	59	0.6	< 0.5	4310	474	2	19	< 2	33	2.4	6	< 10	44	< 0.5	< 2	3.35	18	27	5.15	< 10
1440674	50	0.5	< 0.5	2310	535	< 1	21	6	44	2.74	4	< 10	41	< 0.5	< 2	3.56	17	28	5.07	< 10
1440675	80	0.8	0.8	3570	620	< 1	21	< 2	44	2.96	2	< 10	56	< 0.5	< 2	3.3	17	29	5.84	< 10
1440676	104	1.2	< 0.5	4380	677	1	22	3	46	2.44	15	< 10	44	< 0.5	< 2	4.03	16	29	5.86	< 10

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Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440506	<1	0.22	<10	1.92	0.086	0.107	0.24	2	8	55	0.25	<1	<2	<10	275	<10	8	7
1440507	<1	0.22	<10	2.31	0.074	0.112	0.21	3	14	34	0.23	4	<2	<10	285	<10	11	7
1440508	3	0.37	<10	3	0.043	0.119	0.17	4	14	36	0.07	<1	<2	<10	267	<10	12	5
1440509	2	0.33	<10	2.63	0.053	0.113	0.25	<2	14	44	0.06	<1	<2	<10	246	<10	12	5
1440510	<1	0.3	<10	2.6	0.025	0.122	1.07	3	10	48	0.01	<1	<2	<10	193	<10	11	3
1440511	3	0.34	<10	3.08	0.028	0.119	1.3	3	11	43	0.01	<1	<2	<10	214	<10	10	4
1440512	<1	0.36	<10	2.7	0.027	0.114	1.29	4	11	54	0.02	<1	<2	<10	199	<10	10	3
1440513	<1	0.4	<10	2.04	0.018	0.111	1.5	3	9	67	0.02	<1	<2	<10	130	<10	9	3
1440514	<1	0.44	<10	1.81	0.015	0.098	2.4	3	7	74	<0.01	<1	<2	<10	83	<10	8	3
1440515	1	0.53	<10	1.52	0.017	0.101	2.83	3	8	85	<0.01	<1	2	<10	86	<10	9	3
1440516	<1	0.41	<10	1.65	0.016	0.11	1.97	4	6	75	<0.01	<1	<2	<10	98	<10	9	4
1440517	<1	0.5	<10	1.16	0.019	0.117	2.35	4	4	54	<0.01	<1	<2	<10	91	<10	9	6
1440518	<1	0.43	<10	1.69	0.016	0.117	1.4	4	5	57	<0.01	<1	<2	<10	114	<10	10	5
1440519	1	0.4	<10	1.97	0.02	0.114	0.51	3	7	55	<0.01	<1	<2	<10	157	<10	12	5
1440520	1	0.51	<10	1.7	0.029	0.127	0.13	5	6	61	<0.01	<1	3	<10	168	<10	11	5
1440521	3	0.39	<10	1.61	0.02	0.115	1.23	3	6	61	<0.01	<1	<2	<10	134	<10	10	5
1440522	<1	0.51	<10	1.79	0.021	0.124	0.37	4	6	70	<0.01	<1	<2	<10	146	<10	10	4
1440523	<1	0.63	<10	1.94	0.033	0.123	0.53	2	7	51	0.02	<1	<2	<10	174	<10	12	6
1440524	<1	0.43	<10	1.8	0.036	0.114	0.5	3	7	56	<0.01	2	<2	<10	153	<10	11	5
1440525	<1	0.47	<10	1.98	0.043	0.116	0.3	3	7	70	<0.01	<1	<2	<10	145	<10	12	4
1440526	<1	0.24	<10	2.17	0.07	0.127	0.16	2	10	46	0.12	4	<2	<10	198	<10	12	8
1440527	<1	0.25	<10	2.26	0.06	0.13	0.56	2	10	36	0.12	1	<2	<10	218	<10	13	9
1440528	<1	0.23	<10	2.45	0.064	0.118	0.76	2	12	32	0.21	<1	<2	<10	226	<10	14	9
1440529	<1	0.23	<10	2.45	0.064	0.119	0.77	<2	12	32	0.21	<1	<2	<10	226	<10	14	9
1440530	<1	0.16	<10	0.11	0.037	0.045	0.56	59	<1	172	<0.01	5	<2	<10	12	<10	4	2
1440531	<1	0.24	<10	2.27	0.096	0.133	0.47	3	12	49	0.19	<1	<2	<10	242	<10	14	10
1440532	<1	0.17	<10	2.23	0.09	0.129	0.11	3	14	53	0.25	<1	<2	<10	257	<10	13	11
1440533	<1	0.23	<10	2.26	0.082	0.134	0.26	2	12	46	0.12	<1	<2	<10	242	<10	14	9
1440534	<1	0.34	<10	2.27	0.144	0.129	0.03	4	13	49	0.19	5	<2	<10	262	<10	13	9
1440535	<1	0.18	15	0.9	0.063	0.089	<0.01	2	4	31	0.06	<1	<2	<10	68	<10	15	11
1440536	<1	0.22	<10	2.31	0.089	0.126	0.19	3	11	65	0.15	<1	<2	<10	228	<10	14	9
1440537	<1	0.36	<10	1.92	0.042	0.121	0.15	3	7	92	0.03	2	<2	<10	162	<10	13	5
1440538	<1	0.48	<10	1.72	0.029	0.108	1.07	4	6	153	<0.01	<1	3	<10	127	<10	9	5
1440539	<1	0.36	<10	1.76	0.022	0.103	1.33	3	8	219	<0.01	<1	<2	<10	120	<10	9	3
1440540	<1	0.31	<10	1.92	0.024	0.101	1.21	2	8	175	<0.01	<1	<2	<10	124	<10	9	3
1440541	1	0.33	<10	1.28	0.021	0.115	1.92	3	7	143	<0.01	<1	<2	<10	83	<10	8	3
1440542	2	0.32	<10	1.93	0.022	0.097	2.04	4	6	135	<0.01	2	<2	<10	80	<10	8	3
1440543	<1	0.3	<10	2.55	0.024	0.094	1.93	3	6	96	<0.01	<1	<2	<10	107	<10	7	2
1440544	<1	0.27	<10	2.71	0.03	0.101	0.77	3	7	111	<0.01	<1	<2	<10	131	<10	8	2
1440545	<1	0.25	<10	2.6	0.026	0.097	1.13	<2	6	97	<0.01	<1	<2	<10	117	<10	7	2
1440546	<1	0.32	<10	2.32	0.034	0.099	0.95	2	7	115	<0.01	<1	<2	<10	105	<10	7	3
1440547	<1	0.18	<10	2.35	0.066	0.093	0.26	3	8	202	0.03	<1	<2	<10	123	<10	7	3
1440548	<1	0.28	<10	2.7	0.036	0.101	0.98	4	8	115	0.01	<1	<2	<10	125	<10	7	3
1440549	<1	0.25	<10	2.13	0.059	0.097	1.22	2	7	113	0.03	5	<2	<10	104	<10	7	3
1440550	<1	0.31	<10	2.56	0.073	0.101	0.44	3	8	122	0.05	7	<2	<10	135	<10	9	4
1440551	<1	0.06	<10	2.87	0.078	0.106	0.81	3	8	90	0.17	2	<2	<10	179	<10	7	8

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Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440552	<1	0.09	<10	2.73	0.103	0.109	0.27	4	12	149	0.22	<1	<2	<10	194	<10	8	10
1440553	<1	0.05	<10	2.83	0.067	0.102	0.17	3	12	140	0.18	<1	<2	<10	186	<10	7	10
1440554	<1	0.11	<10	2.77	0.099	0.102	0.29	4	12	112	0.2	<1	<2	<10	190	<10	7	10
1440555	<1	0.09	<10	2.76	0.075	0.101	0.31	2	12	105	0.2	<1	<2	<10	186	<10	7	9
1440556	1	0.16	<10	0.11	0.036	0.046	0.56	61	<1	173	<0.01	7	<2	<10	12	<10	4	2
1440557	<1	0.09	<10	2.78	0.076	0.104	0.59	5	11	112	0.19	4	<2	<10	179	<10	6	8
1440558	<1	0.1	<10	2.71	0.098	0.1	0.43	2	10	232	0.17	<1	<2	<10	174	<10	7	7
1440559	<1	0.33	<10	2.29	0.049	0.097	0.79	3	7	157	0.03	<1	<2	<10	108	<10	8	4
1440560	<1	0.19	14	1	0.089	0.086	<0.01	3	4	41	0.1	1	<2	<10	72	<10	15	14
1440561	<1	0.21	<10	2.78	0.093	0.1	0.87	2	10	152	0.14	<1	<2	<10	166	<10	7	7
1440562	<1	0.11	<10	2.92	0.095	0.103	0.8	3	11	95	0.2	<1	<2	<10	188	<10	7	8
1440563	<1	0.18	<10	2.77	0.062	0.102	2.06	<2	8	76	0.17	<1	<2	<10	149	<10	6	6
1440564	<1	0.24	<10	2.65	0.071	0.099	1.97	3	8	94	0.13	<1	<2	<10	149	<10	6	6
1440565	<1	0.12	<10	2.77	0.111	0.101	0.44	3	10	132	0.18	2	<2	<10	165	<10	7	7
1440566	<1	0.15	<10	2.42	0.144	0.105	0.53	3	10	130	0.19	5	<2	<10	166	<10	7	9
1440567	<1	0.11	<10	2.65	0.117	0.112	0.45	<2	10	147	0.2	9	<2	<10	167	<10	7	10
1440568	<1	0.12	<10	2.34	0.124	0.099	0.64	<2	9	146	0.18	5	<2	<10	159	<10	7	9
1440569	<1	0.15	<10	2.12	0.142	0.098	0.56	4	10	133	0.16	<1	<2	<10	153	<10	7	8
1440570	<1	0.13	<10	2.42	0.15	0.107	0.28	<2	10	143	0.17	<1	<2	<10	166	<10	7	8
1440571	<1	0.13	<10	2.57	0.157	0.109	0.36	<2	11	175	0.16	<1	<2	<10	180	<10	7	7
1440572	<1	0.11	<10	2.66	0.136	0.106	0.67	2	12	231	0.18	<1	<2	<10	183	<10	8	8
1440573	<1	0.13	<10	2.51	0.08	0.109	0.81	2	14	74	0.21	<1	<2	<10	214	<10	11	10
1440574	<1	0.14	<10	2.06	0.086	0.131	0.57	2	13	74	0.21	6	<2	<10	220	<10	10	10
1440575	<1	0.11	<10	1.65	0.053	0.092	0.88	4	9	97	0.18	<1	<2	<10	188	<10	7	9
1440576	<1	0.14	<10	2.11	0.075	0.1	1	2	10	91	0.2	<1	<2	<10	194	<10	7	9
1440577	<1	0.15	<10	2.19	0.072	0.099	1.27	2	10	67	0.28	<1	<2	<10	224	<10	7	12
1440578	<1	0.19	<10	2.11	0.096	0.106	0.88	<2	10	94	0.27	2	<2	<10	221	<10	8	12
1440579	<1	0.34	<10	1.86	0.043	0.095	1.5	2	8	122	0.01	<1	<2	<10	132	<10	9	4
1440580	1	0.16	<10	0.11	0.036	0.046	0.56	57	<1	169	<0.01	4	<2	<10	12	<10	4	2
1440581	<1	0.24	<10	2.37	0.072	0.125	1.33	3	11	82	0.14	2	<2	<10	229	<10	8	6
1440582	<1	0.19	<10	2.38	0.079	0.122	0.64	3	14	88	0.21	<1	<2	<10	265	<10	8	8
1440583	<1	0.23	<10	2.53	0.077	0.122	0.52	4	14	70	0.18	<1	<2	<10	262	<10	8	7
1440584	<1	0.24	<10	2.82	0.051	0.115	1.95	3	10	83	0.1	<1	<2	<10	203	<10	7	5
1440585	<1	0.29	<10	2.73	0.045	0.106	2.33	3	7	63	0.03	1	<2	<10	142	<10	7	4
1440586	<1	0.26	<10	2.38	0.06	0.096	1.87	<2	7	90	0.05	<1	<2	<10	125	<10	7	5
1440587	<1	0.23	<10	2.68	0.042	0.099	1.76	3	7	60	0.03	<1	<2	<10	129	<10	7	4
1440588	<1	0.22	<10	2.99	0.054	0.102	1.95	<2	10	71	0.11	<1	<2	<10	159	<10	6	6
1440589	2	0.31	<10	2.84	0.041	0.105	2.77	3	7	55	<0.01	3	<2	<10	127	<10	7	5
1440590	<1	0.25	<10	2.56	0.035	0.095	2.84	3	6	50	<0.01	2	2	<10	110	<10	7	4
1440591	<1	0.29	<10	3.07	0.062	0.104	2.41	2	8	67	0.06	<1	<2	<10	144	<10	7	5
1440592	<1	0.21	<10	2.94	0.052	0.109	2.14	<2	9	68	0.04	<1	<2	<10	139	<10	7	5
1440593	<1	0.22	<10	2.95	0.061	0.109	2.18	<2	9	64	0.05	5	<2	<10	156	<10	7	6
1440594	<1	0.34	<10	2.35	0.039	0.101	3.5	2	7	58	0.05	2	<2	<10	126	<10	7	5
1440595	<1	0.22	<10	2.63	0.07	0.126	1.49	3	11	63	0.21	<1	<2	<10	234	<10	7	6
1440596	<1	0.16	<10	2.46	0.065	0.116	1.43	<2	10	68	0.22	<1	<2	<10	238	<10	6	6
1440597	<1	0.12	<10	2.57	0.058	0.118	1.96	5	5	59	0.21	4	<2	<10	227	<10	5	5

**Final Report
 Activation Laboratories**

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440588	<1	0.15	<10	2.28	0.057	0.105	1.87	2	10	68	0.17	<1	<2	<10	210	<10	6	5
1440599	<1	0.17	<10	2.51	0.075	0.142	1.4	3	9	79	0.23	2	<2	<10	252	<10	7	6
1440600	1	0.2	<10	2.69	0.071	0.132	0.87	3	11	73	0.21	<1	<2	<10	250	<10	8	6
1440601	2	0.25	<10	3.02	0.072	0.135	1.9	3	13	77	0.23	<1	<2	<10	270	<10	8	6
1440602	2	0.24	<10	3.08	0.077	0.132	0.96	2	16	75	0.23	<1	<2	<10	285	<10	10	7
1440603	<1	0.23	<10	2.72	0.067	0.12	1.75	3	12	81	0.21	2	<2	<10	234	<10	8	6
1440604	2	0.25	<10	2.7	0.071	0.124	1.27	2	13	95	0.2	<1	<2	<10	248	<10	8	6
1440605	<1	0.15	<10	2.44	0.065	0.11	1.13	3	12	78	0.17	1	<2	<10	223	<10	7	4
1440606	<1	0.17	<10	2.27	0.064	0.106	1.41	9	12	75	0.2	<1	<2	<10	220	<10	7	5
1440607	<1	0.16	<10	0.1	0.035	0.046	0.55	59	<1	162	<0.01	3	<2	<10	12	<10	4	2
1440608	<1	0.07	<10	1.18	0.036	0.053	0.93	<2	6	45	0.09	3	<2	<10	113	<10	4	2
1440609	<1	0.11	13	1.11	0.245	0.086	<0.01	3	6	85	0.3	<1	<2	<10	91	<10	12	14
1440610	<1	0.21	<10	3.51	0.062	0.13	1.31	3	14	83	0.27	2	<2	<10	282	<10	9	6
1440611	2	0.27	<10	3.57	0.056	0.126	0.65	3	16	74	0.27	<1	<2	<10	276	<10	9	5
1440612	<1	0.24	<10	3.24	0.052	0.125	1.33	3	12	57	0.17	<1	4	<10	229	<10	9	4
1440613	<1	0.2	<10	2.58	0.059	0.113	0.94	3	11	70	0.19	<1	<2	<10	235	<10	8	6
1440614	2	0.15	<10	2.62	0.057	0.135	0.76	5	13	77	0.26	<1	<2	<10	276	<10	8	8
1440615	<1	0.26	<10	1.9	0.049	0.1	2.37	3	9	84	0.19	<1	<2	<10	177	<10	6	5
1440616	<1	0.17	<10	2.64	0.075	0.122	1.31	<2	11	78	0.25	<1	<2	<10	251	<10	6	7
1440617	<1	0.18	<10	2.47	0.081	0.132	0.53	3	11	106	0.26	<1	<2	<10	263	<10	8	8
1440618	<1	0.22	<10	3.02	0.061	0.116	2.17	4	13	70	0.23	<1	<2	<10	233	<10	7	6
1440619	<1	0.18	<10	2.95	0.061	0.123	1.9	4	13	62	0.22	<1	<2	<10	220	<10	7	6
1440620	<1	0.18	<10	3.15	0.076	0.119	1.98	3	14	70	0.23	<1	<2	<10	262	<10	8	6
1440621	<1	0.37	<10	2.65	0.076	0.106	3.22	5	11	68	0.24	7	<2	<10	205	<10	8	5
1440622	<1	0.18	<10	2.86	0.078	0.132	1.9	3	12	66	0.27	<1	<2	<10	266	<10	8	6
1440623	<1	0.24	<10	2.64	0.055	0.113	1.48	3	12	75	0.24	<1	<2	<10	223	<10	9	5
1440624	<1	0.23	<10	3.17	0.055	0.129	0.99	3	15	55	0.26	<1	<2	<10	255	<10	10	7
1440625	<1	0.2	<10	2.74	0.063	0.111	1.39	4	13	68	0.21	2	<2	<10	238	<10	9	6
1440626	<1	0.18	<10	2.24	0.065	0.111	0.43	3	13	75	0.24	<1	<2	<10	254	<10	8	7
1440627	<1	0.18	<10	2.63	0.063	0.126	0.91	2	16	68	0.21	<1	<2	<10	255	<10	10	7
1440628	2	0.25	<10	2.82	0.059	0.114	1.83	5	11	66	0.04	5	<2	<10	194	<10	8	4
1440629	1	0.22	<10	2.41	0.05	0.106	2.88	3	10	79	0.02	<1	<2	<10	188	<10	9	4
1440630	<1	0.22	<10	2.29	0.055	0.11	1.58	3	13	64	0.1	<1	<2	<10	215	<10	9	4
1440631	<1	0.21	<10	2.29	0.059	0.112	1.71	<2	12	59	0.15	1	<2	<10	213	<10	9	5
1440632	1	0.16	<10	0.11	0.035	0.047	0.57	61	<1	170	<0.01	4	<2	<10	12	<10	4	2
1440633	<1	0.13	<10	2.29	0.064	0.111	2.06	2	12	68	0.23	<1	<2	<10	207	<10	8	6
1440634	<1	0.13	<10	2.29	0.062	0.103	1.58	3	14	67	0.23	<1	<2	<10	217	<10	9	6
1440635	<1	0.08	13	1.1	0.189	0.083	0.01	2	6	69	0.29	2	<2	<10	88	<10	12	16
1440636	<1	0.12	<10	2.23	0.055	0.104	1.46	<2	12	63	0.22	5	<2	<10	217	<10	8	6
1440637	<1	0.15	<10	2.17	0.053	0.101	1.03	3	13	62	0.22	<1	<2	<10	201	<10	10	8
1440638	<1	0.17	<10	2.05	0.053	0.147	0.3	3	9	124	0.17	<1	<2	<10	187	<10	11	11
1440639	<1	0.21	<10	1.97	0.069	0.102	1.6	2	11	75	0.14	<1	<2	<10	188	<10	8	6
1440640	<1	0.16	<10	1.69	0.064	0.096	2.15	3	9	72	0.16	<1	<2	<10	165	<10	8	6
1440641	<1	0.14	<10	2.21	0.061	0.106	2.01	<2	10	63	0.21	<1	<2	<10	209	<10	8	5
1440642	3	0.19	<10	2.24	0.051	0.107	1.48	2	11	60	0.18	<1	<2	<10	199	<10	10	5
1440643	<1	0.17	<10	2.33	0.072	0.114	0.94	3	17	59	0.13	<1	<2	<10	214	<10	11	5

Report: A13-07415
 Report Date: 7/1

Final Report
Activation Laboratories

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440644	< 1	0.13	< 10	1.96	0.073	0.11	1.24	3	11	48	0.21	< 1	< 2	< 10	214	< 10	9	7
1440645	< 1	0.16	< 10	1.99	0.084	0.107	1.51	3	11	51	0.25	< 1	< 2	< 10	232	< 10	9	7
1440646	< 1	0.18	< 10	1.65	0.067	0.112	1.99	3	11	62	0.23	< 1	< 2	< 10	211	< 10	8	6
1440647	2	0.23	< 10	1.81	0.062	0.111	2.3	3	11	65	0.21	< 1	< 2	< 10	197	< 10	8	6
1440648	< 1	0.2	< 10	1.75	0.06	0.108	2.2	4	11	65	0.21	< 1	< 2	< 10	193	< 10	7	6
1440649	< 1	0.17	< 10	2.32	0.074	0.107	1.52	2	9	67	0.25	< 1	< 2	< 10	206	< 10	8	5
1440650	< 1	0.14	< 10	2.17	0.07	0.114	1.28	< 2	8	76	0.26	< 1	< 2	< 10	223	< 10	8	5
1440651	< 1	0.15	< 10	2.28	0.073	0.109	1.22	< 2	11	63	0.25	2	< 2	< 10	224	< 10	9	6
1440652	< 1	0.13	< 10	2.2	0.062	0.097	1.44	< 2	11	66	0.26	8	< 2	< 10	219	< 10	8	6
1440653	< 1	0.15	< 10	2.15	0.067	0.096	1.58	2	12	64	0.25	7	< 2	< 10	215	< 10	8	4
1440654	< 1	0.14	< 10	2.44	0.069	0.1	1.35	< 2	12	62	0.28	2	< 2	< 10	237	< 10	8	6
1440655	< 1	0.12	< 10	2.45	0.06	0.099	1.54	3	14	73	0.26	< 1	< 2	< 10	237	< 10	8	7
1440656	< 1	0.13	< 10	2.74	0.063	0.108	1.11	3	17	72	0.28	4	< 2	< 10	241	< 10	9	8
1440657	< 1	0.14	< 10	2.55	0.05	0.098	1.08	2	15	101	0.19	6	< 2	< 10	213	< 10	9	6
1440658	2	0.15	< 10	0.11	0.035	0.045	0.55	61	< 1	164	< 0.01	3	< 2	< 10	12	< 10	4	2
1440659	< 1	0.23	< 10	2.42	0.045	0.109	1.39	2	10	51	0.06	< 1	< 2	< 10	178	< 10	9	3
1440660	< 1	0.2	< 10	2.37	0.052	0.131	1.5	3	12	50	0.11	< 1	3	< 10	209	< 10	9	4
1440661	< 1	0.08	14	1.23	0.189	0.089	< 0.01	3	6	71	0.3	1	< 2	< 10	94	< 10	13	14
1440662	< 1	0.18	< 10	2.68	0.062	0.128	2.47	3	13	54	0.22	< 1	< 2	< 10	229	< 10	9	5
1440663	< 1	0.1	< 10	2.57	0.063	0.125	1.38	3	13	94	0.15	2	< 2	< 10	214	< 10	10	5
1440664	< 1	0.14	< 10	2.42	0.058	0.114	1.51	3	12	165	0.02	< 1	< 2	< 10	190	< 10	9	3
1440665	< 1	0.27	< 10	2.15	0.051	0.1	1.47	3	10	115	< 0.01	< 1	< 2	< 10	145	< 10	11	2
1440666	2	0.18	< 10	2.22	0.049	0.089	1.17	< 2	11	445	0.01	< 1	< 2	< 10	166	< 10	10	3
1440667	< 1	0.2	< 10	2.17	0.049	0.1	1.43	3	10	178	0.02	< 1	< 2	< 10	170	< 10	9	3
1440668	< 1	0.2	< 10	2.11	0.049	0.097	1.46	< 2	10	179	0.02	< 1	< 2	< 10	172	< 10	9	3
1440669	1	0.14	< 10	2.6	0.061	0.112	1.36	< 2	12	73	0.04	< 1	< 2	< 10	198	< 10	9	3
1440670	< 1	0.15	< 10	2.38	0.065	0.105	0.55	3	14	70	0.17	< 1	< 2	< 10	229	< 10	10	5
1440671	3	0.15	< 10	2.48	0.065	0.111	0.89	4	12	141	0.13	< 1	< 2	< 10	201	< 10	10	4
1440672	< 1	0.15	< 10	2.55	0.059	0.105	1.53	2	11	70	0.05	< 1	< 2	< 10	212	< 10	8	3
1440673	< 1	0.18	< 10	2.5	0.063	0.116	1.89	2	10	51	0.07	< 1	< 2	< 10	177	< 10	8	3
1440674	1	0.13	< 10	2.58	0.056	0.097	1.27	3	12	214	0.11	< 1	< 2	< 10	221	< 10	8	3
1440675	2	0.15	< 10	2.63	0.065	0.123	1.22	4	13	76	0.09	< 1	< 2	< 10	235	< 10	9	3
1440676	< 1	0.12	< 10	2.54	0.044	0.105	1.57	3	12	56	0.13	< 1	< 2	< 10	219	< 10	8	4

Report: A13-08000 (i)		Final Report																		
Report Date: 7/24/2013		Activation Laboratories																		
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440701	59	1.3	< 0.5	2670	559	3	21	5	57	2.79	12	< 10	45	< 0.5	< 2	3.26	19	29	4.37	< 10
1440702	< 5	< 0.2	< 0.5	37	651	2	15	5	67	2.43	< 2	< 10	70	< 0.5	< 2	2.08	17	20	3.89	< 10
1440703	21	0.3	< 0.5	1290	438	2	18	3	40	2.3	5	< 10	40	< 0.5	< 2	5.07	22	25	3.79	< 10
1440704	28	0.5	< 0.5	976	859	< 1	20	< 2	84	2.6	5	< 10	58	< 0.5	< 2	3.62	21	54	5.71	< 10
1440705	17	< 0.2	< 0.5	224	638	< 1	20	2	67	2.28	3	< 10	44	< 0.5	< 2	5.98	22	45	3.93	< 10
1440706	24	< 0.2	< 0.5	504	579	< 1	21	3	45	3.25	3	< 10	34	< 0.5	< 2	5.47	23	42	4.63	< 10
1440707	33	0.8	< 0.5	864	561	< 1	20	< 2	63	2.79	4	< 10	51	< 0.5	< 2	2.53	20	35	5.5	< 10
1440708	17	0.4	0.5	738	611	1	22	7	48	2.83	3	< 10	43	< 0.5	< 2	3.07	19	34	4.83	< 10
1440709	17	0.5	< 0.5	540	887	1	21	< 2	64	3.06	3	< 10	59	< 0.5	< 2	4.21	24	35	4.91	< 10
1440710	14	0.4	< 0.5	535	909	1	20	< 2	65	3.16	3	< 10	58	< 0.5	< 2	4.17	24	35	5.02	< 10
1440711	40	1.9	0.6	1460	1030	1	18	3	121	2.89	5	< 10	43	< 0.5	< 2	3.25	20	28	5.85	< 10
1440712	37	0.8	< 0.5	1180	822	< 1	13	< 2	77	2.83	9	< 10	55	< 0.5	< 2	3.11	15	17	5.38	< 10
1440713	33	0.6	< 0.5	828	631	1	13	< 2	60	3.31	< 2	17	64	< 0.5	< 2	2.58	21	15	4.99	< 10
1440714	12	< 0.2	< 0.5	358	527	1	12	3	42	3.26	4	124	73	< 0.5	< 2	3.34	18	15	4.49	< 10
1440715	28	0.4	< 0.5	693	639	2	12	< 2	54	3.33	5	71	56	< 0.5	< 2	4.82	18	16	4.75	< 10
1440716	19	0.5	0.8	623	875	< 1	11	< 2	177	3.34	6	20	68	< 0.5	< 2	4.17	19	17	4.84	< 10
1440717	46	< 0.2	< 0.5	419	539	< 1	11	< 2	41	3.26	5	42	70	< 0.5	< 2	3.14	16	11	4.34	< 10
1440718	25	0.6	< 0.5	2410	567	< 1	15	< 2	43	3.75	2	10	78	< 0.5	< 2	3.93	22	18	5.16	< 10
1440719	17	0.5	< 0.5	2150	499	< 1	16	3	41	2.97	< 2	< 10	53	< 0.5	< 2	3.39	20	22	5.5	< 10
1440720	71	0.3	< 0.5	739	522	1	13	< 2	45	2.96	3	< 10	59	< 0.5	< 2	3.97	20	17	5.46	< 10
1440721	34	0.5	< 0.5	688	834	< 1	17	4	90	3.24	7	< 10	38	< 0.5	< 2	3.92	21	20	4.81	< 10
1440722	386	27.3	< 0.5	3910	422	773	15	44	48	0.4	31	< 10	159	< 0.5	< 2	1.39	4	24	1.91	< 10
1440723	11	0.2	< 0.5	472	1010	5	16	< 2	81	3.43	3	< 10	31	< 0.5	< 2	3.59	22	21	4.99	< 10
1440724	198	0.4	< 0.5	687	847	5	15	< 2	74	3.09	< 2	< 10	58	< 0.5	< 2	3.19	20	22	4.71	< 10
1440725	39	0.5	< 0.5	857	759	3	16	< 2	68	3.38	4	< 10	33	< 0.5	< 2	4.13	21	20	4.61	< 10
1440726	< 5	< 0.2	< 0.5	38	666	< 1	14	6	66	2.21	2	< 10	58	< 0.5	< 2	2.07	17	20	3.85	< 10
1440727	28	< 0.2	< 0.5	519	700	< 1	17	< 2	63	3.2	< 2	< 10	38	< 0.5	< 2	3.53	19	23	4.66	< 10
1440728	27	0.3	< 0.5	732	630	< 1	18	4	61	4	7	< 10	29	< 0.5	< 2	4.32	19	23	4.72	10
1440729	58	0.6	< 0.5	1120	655	2	18	< 2	59	3.08	3	< 10	32	< 0.5	< 2	3.91	21	23	4.43	< 10
1440730	51	0.4	< 0.5	830	766	< 1	17	< 2	51	4.34	7	< 10	51	< 0.5	< 2	4.26	17	26	4.59	< 10
1440731	47	0.5	< 0.5	866	758	< 1	18	< 2	51	4.38	7	< 10	51	< 0.5	< 2	4.18	16	26	4.64	< 10
1440732	13	< 0.2	< 0.5	267	629	< 1	16	< 2	40	3.25	13	180	42	< 0.5	< 2	3.83	18	23	4.38	< 10
1440733	13	< 0.2	< 0.5	329	698	< 1	17	< 2	42	3.42	9	11	34	< 0.5	< 2	4.15	20	24	5	< 10
1440734	26	0.4	< 0.5	690	857	< 1	20	< 2	47	3.28	7	13	36	< 0.5	< 2	4.09	21	31	5.65	< 10
1440735	58	0.8	< 0.5	1320	821	< 1	16	2	38	2.61	3	< 10	26	< 0.5	< 2	7.66	21	26	4.44	< 10
1440736	60	0.6	< 0.5	1120	694	< 1	21	< 2	45	3.16	2	< 10	38	< 0.5	< 2	4.12	24	29	4.73	< 10
1440737	55	0.9	< 0.5	1840	914	< 1	17	4	48	2.88	3	< 10	37	< 0.5	< 2	3.69	21	33	5.01	< 10
1440738	29	0.3	< 0.5	407	515	1	17	< 2	42	2.93	< 2	< 10	42	< 0.5	< 2	3.78	17	26	4.03	< 10
1440739	12	< 0.2	< 0.5	195	372	< 1	18	< 2	33	2.53	< 2	< 10	49	< 0.5	< 2	3.47	13	21	3.22	< 10
1440740	17	< 0.2	< 0.5	170	413	2	16	< 2	35	3.53	< 2	< 10	59	< 0.5	< 2	3.13	19	26	4.15	< 10
1440741	56	< 0.2	< 0.5	198	586	< 1	20	< 2	49	3.74	2	< 10	37	< 0.5	< 2	2.93	27	35	5.8	< 10
1440742	1310	0.3	< 0.5	200	699	< 1	25	< 2	68	3.43	2	< 10	23	< 0.5	9	3.15	26	46	7.21	< 10
1440743	41	0.2	< 0.5	222	806	< 1	30	< 2	71	3.74	4	< 10	31	< 0.5	< 2	3.91	26	63	6.55	< 10
1440744	1830	9.8	0.8	5060	700	3	20	6	41	1.73	14	< 10	22	< 0.5	94	7.05	9	27	10.7	< 10
1440745	40	1.0	< 0.5	549	414	1	13	< 2	51	3.05	< 2	< 10	49	< 0.5	3	3.47	14	18	4.14	< 10
1440746	21	< 0.2	< 0.5	142	392	1	12	< 2	42	3.59	< 2	< 10	29	< 0.5	< 2	3.2	16	16	3.71	< 10

Report: A13-08000 (i)		Final Report																		
Report Date: 7/24/2013		Activation Laboratories																		
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440747	352	26.8	< 0.5	3940	419	784	15	45	47	0.41	30	< 10	119	< 0.5	< 2	1.39	4	23	1.93	< 10
1440748	31	< 0.2	< 0.5	283	412	5	14	< 2	47	3.17	3	< 10	31	< 0.5	< 2	3.22	18	18	4.31	< 10
1440749	14	< 0.2	< 0.5	32	380	< 1	13	< 2	45	2.92	2	< 10	52	< 0.5	< 2	3.16	13	18	3.78	< 10
1440750	< 5	< 0.2	< 0.5	36	518	< 1	15	5	67	2.02	< 2	< 10	62	< 0.5	< 2	1.42	15	20	3.65	< 10
1440751	11	< 0.2	< 0.5	42	383	< 1	13	< 2	48	2.83	< 2	< 10	48	< 0.5	3	2.58	13	19	4.1	< 10
1440752	10	< 0.2	< 0.5	9	326	< 1	10	< 2	35	2.88	3	< 10	20	< 0.5	< 2	2.41	13	18	3.52	< 10
1440753	21	< 0.2	< 0.5	12	320	< 1	11	< 2	33	3.55	< 2	< 10	15	< 0.5	< 2	2.86	13	15	3.58	< 10
1440754	28	< 0.2	< 0.5	46	391	2	17	3	35	3.54	12	< 10	37	< 0.5	3	3.44	15	24	3.84	< 10
1440755	17	0.2	< 0.5	436	376	8	11	< 2	31	3.92	5	< 10	30	< 0.5	< 2	3.09	19	14	4.25	10
1440756	15	< 0.2	< 0.5	307	324	8	13	< 2	29	3.3	< 2	< 10	30	< 0.5	< 2	2.51	15	18	4.29	< 10
1440757	19	< 0.2	< 0.5	412	343	7	12	< 2	31	3.84	< 2	< 10	29	0.6	< 2	2.9	19	13	4.6	10
1440758	12	0.3	< 0.5	305	330	15	12	< 2	33	3.47	< 2	< 10	28	< 0.5	< 2	2.54	18	14	4.67	10
1440759	12	< 0.2	< 0.5	298	332	14	13	< 2	32	3.46	3	< 10	28	< 0.5	< 2	2.55	19	13	4.78	10
1440760	22	0.3	< 0.5	682	310	24	14	< 2	34	3.37	5	< 10	25	< 0.5	< 2	2.85	33	17	5.28	< 10
1440761	18	1.1	< 0.5	384	564	8	31	< 2	40	4.73	5	< 10	36	0.6	< 2	4.74	23	53	6.77	10
1440762	25	3.9	< 0.5	715	467	5	34	4	35	4.15	4	11	26	0.6	< 2	4.5	28	73	6.32	< 10
1440763	20	0.3	< 0.5	565	619	17	28	< 2	37	4.06	6	< 10	20	< 0.5	< 2	3.8	24	54	6.06	10
1440764	95	2.3	< 0.5	3150	450	13	31	4	43	3.86	13	< 10	21	< 0.5	< 2	3.27	34	48	7.52	10
1440765	156	2.6	< 0.5	4740	421	20	25	< 2	47	3.65	13	< 10	22	< 0.5	2	3.37	28	35	5.8	10
1440766	24	0.6	< 0.5	1640	672	11	21	< 2	49	3.71	6	< 10	49	< 0.5	< 2	4.04	19	38	6.17	< 10
1440767	20	0.3	< 0.5	564	480	14	16	< 2	43	3.14	6	< 10	41	< 0.5	< 2	3.73	20	20	4.77	< 10
1440768	23	0.2	< 0.5	370	200	17	9	< 2	22	3.17	< 2	< 10	20	< 0.5	3	2.21	20	11	3.78	< 10
1440769	9	< 0.2	< 0.5	146	296	6	8	< 2	26	3.28	3	< 10	22	< 0.5	3	2.58	11	12	3.84	< 10
1440770	324	27.0	< 0.5	3710	404	712	14	40	46	0.38	26	< 10	143	< 0.5	< 2	1.31	3	23	1.85	< 10
1440771	9	< 0.2	< 0.5	164	328	63	11	< 2	27	3.08	6	< 10	35	< 0.5	< 2	2.31	13	16	4.03	< 10
1440772	18	< 0.2	< 0.5	205	212	35	8	< 2	23	2.95	3	< 10	34	< 0.5	< 2	2.11	12	13	4.2	< 10
1440773	< 5	< 0.2	< 0.5	37	509	1	15	5	64	1.91	< 2	< 10	55	< 0.5	< 2	1.38	15	20	3.61	< 10
1440774	< 5	< 0.2	< 0.5	164	344	13	10	< 2	33	3.35	5	< 10	68	< 0.5	< 2	2.37	15	17	4.62	10
1440775	16	< 0.2	< 0.5	328	278	10	11	< 2	29	3.12	< 2	< 10	50	< 0.5	< 2	2.26	16	17	4.92	10
1440776	11	< 0.2	< 0.5	335	277	10	11	< 2	30	3.17	3	< 10	51	< 0.5	< 2	2.27	15	17	4.91	10
1440777	18	< 0.2	< 0.5	309	260	12	12	< 2	30	3.27	4	< 10	44	< 0.5	< 2	2.29	14	19	4.97	< 10
1440778	22	< 0.2	< 0.5	247	161	21	9	< 2	20	2.54	4	< 10	29	< 0.5	< 2	2.58	18	15	5.3	< 10
1440779	22	0.3	< 0.5	247	305	4	12	< 2	27	2.48	2	< 10	41	< 0.5	< 2	2.35	19	15	4.91	< 10
1440780	19	0.2	< 0.5	442	262	5	11	< 2	29	2.73	3	< 10	29	< 0.5	< 2	2.14	13	16	4.32	< 10
1440781	24	< 0.2	< 0.5	89	171	6	11	< 2	22	2.79	3	< 10	35	< 0.5	< 2	2	16	17	4.25	< 10
1440782	34	< 0.2	< 0.5	596	161	17	11	< 2	22	2.56	< 2	< 10	33	< 0.5	< 2	1.92	24	18	4.62	< 10
1440783	74	0.3	< 0.5	668	151	52	12	< 2	20	2.32	3	< 10	28	< 0.5	< 2	1.93	29	15	4.81	< 10
1440784	21	0.2	< 0.5	365	177	25	11	< 2	21	2.4	3	< 10	32	< 0.5	< 2	1.84	23	17	4.13	< 10
1440785	18	< 0.2	< 0.5	434	210	10	11	< 2	25	2.54	< 2	< 10	43	< 0.5	< 2	1.67	24	17	4.16	< 10
1440786	28	< 0.2	< 0.5	278	138	8	6	< 2	19	2.34	< 2	< 10	18	< 0.5	< 2	2.04	12	10	2.55	< 10
1440787	23	0.3	< 0.5	506	345	6	36	< 2	35	3.22	< 2	< 10	28	< 0.5	< 2	2.29	21	69	5.83	10
1440788	16	< 0.2	< 0.5	304	308	6	27	< 2	32	2.92	< 2	< 10	34	< 0.5	< 2	2.39	18	33	4.99	< 10
1440789	17	< 0.2	< 0.5	409	302	13	23	2	37	2.91	3	< 10	39	< 0.5	< 2	2.02	18	43	5	10
1440790	13	< 0.2	< 0.5	315	176	56	11	< 2	20	2.2	4	< 10	39	< 0.5	< 2	2.29	22	15	4.11	< 10
1440791	19	< 0.2	< 0.5	325	148	18	10	5	15	2.16	4	< 10	45	< 0.5	< 2	2.07	21	14	3.71	< 10
1440792	7	< 0.2	< 0.5	118	115	15	11	3	2	2	< 10	36	< 0.5	< 2	1.49	23	14	4.24	< 10	

Report: A13-08000 (i)		Final Report																		
Report Date: 7/24/2013		Activation Laboratories																		
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440793	6	< 0.2	< 0.5	75	161	21	11	3	15	2.16	3	< 10	30	< 0.5	< 2	1.57	23	15	4.23	< 10
1440794	10	< 0.2	< 0.5	130	172	30	12	< 2	17	2.25	4	< 10	28	< 0.5	< 2	1.5	26	17	4.19	< 10
1440795	315	27.4	< 0.5	3900	418	775	14	43	47	0.41	27	< 10	122	< 0.5	2	1.38	4	24	1.93	< 10
1440796	5	< 0.2	< 0.5	100	582	13	4	2	60	2.58	9	< 10	42	< 0.5	< 2	2.92	18	6	4.33	< 10
1440797	< 5	< 0.2	< 0.5	23	714	< 1	< 1	< 2	79	2.21	< 2	< 10	53	< 0.5	< 2	3.36	10	1	3.78	< 10
1440798	< 5	< 0.2	< 0.5	32	643	< 1	14	4	69	2.06	< 2	< 10	62	< 0.5	< 2	1.77	17	21	3.92	< 10
1440799	< 5	< 0.2	< 0.5	30	905	< 1	< 1	< 2	86	2.06	4	< 10	45	< 0.5	< 2	2.7	12	< 1	4.19	< 10
1440800	< 5	< 0.2	< 0.5	28	797	1	2	2	78	1.79	5	< 10	43	< 0.5	< 2	2.47	11	1	3.77	< 10
1440801	20	< 0.2	< 0.5	158	593	5	8	< 2	53	2.31	< 2	< 10	55	< 0.5	< 2	2.08	17	12	4.48	< 10
1440802	13	0.2	< 0.5	387	331	9	11	7	30	2.67	3	< 10	55	< 0.5	< 2	1.65	20	17	5.16	< 10
1440803	13	0.2	< 0.5	422	294	11	12	< 2	28	3.01	< 2	< 10	49	< 0.5	< 2	2.46	20	18	4.88	10
1440804	12	< 0.2	< 0.5	438	284	5	10	< 2	30	2.99	< 2	< 10	43	< 0.5	< 2	1.92	15	17	4.45	< 10
1440805	59	1.0	< 0.5	1160	236	13	14	< 2	35	2.61	3	< 10	34	< 0.5	3	2.84	38	15	5.31	< 10
1440806	20	0.3	< 0.5	473	242	11	13	< 2	31	2.72	< 2	< 10	55	< 0.5	< 2	1.87	18	17	4.51	< 10
1440807	47	< 0.2	< 0.5	416	255	19	11	4	30	2.63	4	< 10	53	< 0.5	18	1.8	18	17	4.74	< 10
1440808	15	< 0.2	< 0.5	389	272	11	10	< 2	34	2.59	< 2	< 10	31	< 0.5	< 2	1.99	13	16	4.83	< 10
1440809	28	< 0.2	< 0.5	444	247	10	13	< 2	30	2.99	< 2	< 10	55	< 0.5	< 2	2.12	16	17	5	< 10
1440810	14	< 0.2	< 0.5	303	189	18	10	< 2	24	2.57	< 2	< 10	36	< 0.5	< 2	1.96	21	17	4.4	< 10
1440811	155	< 0.2	< 0.5	321	151	22	12	< 2	19	2.56	2	< 10	36	< 0.5	< 2	1.77	21	18	4.15	< 10
1440812	11	< 0.2	< 0.5	258	145	19	11	< 2	18	2.34	< 2	< 10	42	< 0.5	< 2	2.19	20	15	3.43	< 10
1440813	8	< 0.2	< 0.5	200	114	23	11	< 2	13	2.28	< 2	< 10	40	< 0.5	< 2	1.85	26	13	3.51	< 10
1440814	5	< 0.2	< 0.5	76	134	66	13	< 2	16	2.56	< 2	< 10	39	< 0.5	< 2	1.87	18	17	3.47	< 10
1440815	6	< 0.2	< 0.5	82	108	8	10	3	14	2	< 2	< 10	29	< 0.5	< 2	2.06	27	11	3.35	< 10
1440816	< 5	< 0.2	< 0.5	76	157	11	16	< 2	20	2.55	< 2	< 10	44	< 0.5	< 2	1.87	23	16	3.21	< 10
1440817	8	< 0.2	< 0.5	125	192	7	8	< 2	20	2.95	3	< 10	48	< 0.5	< 2	1.93	18	14	2.93	< 10
1440818	13	< 0.2	< 0.5	279	306	27	10	< 2	30	2.92	< 2	< 10	51	< 0.5	< 2	2.07	12	17	3.99	< 10
1440819	26	< 0.2	< 0.5	353	288	4	11	5	29	2.71	< 2	< 10	53	< 0.5	< 2	2.03	15	16	4.36	< 10
1440820	342	26.8	< 0.5	3790	409	718	14	47	48	0.4	27	< 10	117	< 0.5	< 2	1.34	4	22	1.89	< 10
1440821	11	< 0.2	< 0.5	381	275	8	16	5	30	2.96	< 2	< 10	58	< 0.5	< 2	1.81	19	20	4.35	< 10
1440822	16	< 0.2	< 0.5	498	313	< 1	11	< 2	37	3.21	< 2	< 10	57	< 0.5	< 2	2.18	19	17	5.5	10
1440823	18	< 0.2	< 0.5	422	286	9	11	< 2	31	2.83	4	< 10	55	< 0.5	< 2	2.37	16	18	5.1	< 10
1440824	< 5	< 0.2	< 0.5	30	600	1	15	9	67	2.12	9	< 10	75	< 0.5	< 2	1.57	16	20	3.81	< 10
1440825	11	< 0.2	< 0.5	324	309	4	11	< 2	43	2.92	3	< 10	40	< 0.5	< 2	1.7	12	19	5.03	< 10
1440826	16	0.2	< 0.5	642	219	24	10	< 2	29	2.6	< 2	< 10	28	< 0.5	< 2	1.94	22	15	4.42	< 10
1440827	13	< 0.2	< 0.5	685	226	13	12	< 2	25	2.72	2	< 10	34	< 0.5	< 2	2.7	24	14	3.42	< 10
1440828	13	< 0.2	< 0.5	721	230	13	12	< 2	26	2.81	4	< 10	35	< 0.5	< 2	2.77	24	15	3.53	< 10
1440829	10	< 0.2	< 0.5	483	241	11	12	< 2	27	2.75	< 2	< 10	42	< 0.5	< 2	2.46	17	15	3.3	< 10
1440830	11	< 0.2	< 0.5	442	196	9	8	3	22	2.04	3	< 10	54	< 0.5	< 2	1.95	18	15	2.83	< 10
1440831	14	< 0.2	< 0.5	687	251	13	12	< 2	28	2.64	< 2	< 10	38	< 0.5	< 2	1.87	16	17	3.63	< 10
1440832	21	0.2	< 0.5	997	237	26	11	< 2	26	2.58	< 2	< 10	47	< 0.5	< 2	1.68	20	18	3.34	< 10
1440833	38	0.3	< 0.5	1350	204	37	11	< 2	29	2.31	4	< 10	58	< 0.5	< 2	1.53	26	17	3.13	< 10
1440834	19	< 0.2	< 0.5	900	282	11	13	2	38	2.7	< 2	< 10	59	< 0.5	< 2	1.79	19	19	3.32	< 10
1440835	16	< 0.2	< 0.5	599	276	7	13	< 2	39	2.55	2	< 10	34	< 0.5	< 2	1.67	17	17	4.04	< 10
1440836	10	< 0.2	< 0.5	456	218	15	11	< 2	30	2.43	< 2	< 10	49	< 0.5	< 2	1.84	16	18	3.72	< 10
1440837	15	< 0.2	< 0.5	814	161	43	14	< 2	18	1.96	3	< 10	45	< 0.5	< 2	1.99	23	22	2.98	< 10
1440838	16	0.3	< 0.5	731	175	18	11	< 2	44	2.64	< 2	< 10	36	< 0.5	< 2	1.64	22	17	3.6	< 10

Report: A13-08000 (i)		Final Report																		
Report Date: 7/24/2013		Activation Laboratories																		
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440839	118	0.3	< 0.5	986	166	27	12	3	23	2.96	< 2	< 10	56	< 0.5	< 2	1.82	19	27	3.48	< 10
1440840	11	< 0.2	< 0.5	600	195	17	10	< 2	21	2.43	< 2	< 10	57	< 0.5	< 2	2.02	14	19	3.26	< 10
1440841	11	< 0.2	< 0.5	592	167	34	12	< 2	19	2.31	3	< 10	56	< 0.5	< 2	1.86	18	20	2.76	< 10
1440842	16	< 0.2	< 0.5	800	171	43	10	< 2	19	2.26	< 2	< 10	53	< 0.5	< 2	2.22	13	16	2.68	< 10
1440843	21	< 0.2	< 0.5	865	192	35	12	< 2	21	2.52	< 2	< 10	68	< 0.5	< 2	2.22	18	18	3.19	< 10
1440844	366	26.9	< 0.5	3920	421	782	16	43	48	0.44	29	< 10	74	< 0.5	< 2	1.37	4	23	1.95	< 10
1440845	8	< 0.2	< 0.5	425	201	14	11	5	25	2.69	< 2	< 10	58	< 0.5	< 2	1.67	18	18	3.86	< 10
1440846	17	< 0.2	< 0.5	540	209	14	10	7	27	2.51	< 2	< 10	68	< 0.5	< 2	1.99	17	18	3.77	< 10
1440847	< 5	< 0.2	< 0.5	38	562	1	13	4	61	2.21	< 2	< 10	67	< 0.5	< 2	1.7	15	19	3.53	< 10
1440848	7	< 0.2	< 0.5	407	195	5	6	3	21	1.78	< 2	< 10	99	< 0.5	< 2	2.17	11	17	2.13	< 10
1440849	7	< 0.2	< 0.5	302	157	8	5	2	18	1.6	< 2	< 10	120	0.5	< 2	1.71	9	16	1.84	< 10
1440850	11	< 0.2	< 0.5	289	153	9	5	< 2	17	1.61	< 2	< 10	129	0.5	< 2	1.68	9	16	1.8	< 10
1440851	11	< 0.2	< 0.5	613	186	6	11	3	24	2.82	6	< 10	76	< 0.5	< 2	1.98	12	17	3.34	< 10
1440852	21	0.3	< 0.5	1220	160	19	10	< 2	24	2.43	< 2	< 10	53	< 0.5	< 2	1.68	14	16	3.43	< 10
1440853	9	< 0.2	< 0.5	562	249	18	5	< 2	24	2.56	< 2	< 10	83	< 0.5	< 2	2.39	16	17	3.2	< 10
1440854	6	< 0.2	< 0.5	334	242	8	10	< 2	24	2.67	2	< 10	105	< 0.5	< 2	2.14	14	18	3.21	< 10
1440855	7	< 0.2	< 0.5	443	237	10	9	< 2	23	2.57	5	< 10	83	< 0.5	< 2	1.92	11	17	3.28	< 10
1440856	6	< 0.2	< 0.5	471	208	6	11	< 2	24	2.7	3	< 10	77	< 0.5	< 2	2.03	12	17	3.18	< 10
1440857	20	< 0.2	< 0.5	1170	188	19	11	3	25	2.64	5	< 10	62	< 0.5	< 2	1.95	17	18	3.42	< 10
1440677	35	0.8	< 0.5	1090	895	7	9	2	62	2.23	5	14	17	< 0.5	< 2	5.51	21	4	4.47	< 10
1440678	16	< 0.2	< 0.5	345	650	3	10	4	45	2.82	7	16	37	< 0.5	< 2	4.15	16	9	3.62	< 10
1440679	13	< 0.2	< 0.5	353	819	< 1	7	< 2	50	2.87	5	< 10	139	< 0.5	< 2	2.02	18	10	5.18	< 10
1440680	9	< 0.2	< 0.5	520	583	1	8	< 2	50	3.21	3	< 10	99	< 0.5	< 2	1.62	20	11	4.57	< 10
1440681	< 5	< 0.2	< 0.5	421	549	< 1	8	< 2	51	3.15	< 2	< 10	98	< 0.5	< 2	1.41	15	11	5.6	< 10
1440682	26	< 0.2	< 0.5	562	1350	1	10	< 2	113	3.14	< 2	< 10	135	< 0.5	< 2	1.84	17	11	5.54	< 10
1440683	374	1.0	8.1	873	1100	7	9	14	675	2.82	< 2	< 10	24	< 0.5	< 2	3	27	7	5.09	< 10
1440684	28	0.5	0.9	600	967	2	12	9	181	3.3	2	< 10	44	< 0.5	< 2	1.97	23	10	4.92	< 10
1440685	7	< 0.2	0.6	365	687	2	9	2	75	3.17	3	< 10	108	< 0.5	< 2	1.77	15	11	5.15	< 10
1440686	< 5	< 0.2	< 0.5	445	527	< 1	10	< 2	42	3.46	5	< 10	118	< 0.5	< 2	1.95	16	11	6.34	< 10
1440687	< 5	< 0.2	< 0.5	266	673	< 1	9	2	44	3.2	4	< 10	246	< 0.5	< 2	2.51	12	10	5.47	< 10
1440688	8	0.3	< 0.5	479	898	5	7	6	69	3.1	< 2	< 10	46	< 0.5	< 2	5.17	17	9	4.44	< 10
1440689	7	< 0.2	< 0.5	514	825	5	9	6	80	2.82	4	< 10	33	< 0.5	< 2	4.74	16	8	4.34	< 10
1440690	33	0.4	< 0.5	414	961	9	8	5	63	3.05	5	< 10	35	< 0.5	< 2	5.72	15	8	4.42	< 10
1440691	30	0.4	< 0.5	268	1210	4	7	6	70	2.8	3	< 10	40	< 0.5	< 2	4.71	17	8	5	< 10
1440692	53	0.4	< 0.5	406	1080	3	13	9	73	2.54	6	< 10	30	< 0.5	< 2	4.95	23	7	5.08	< 10
1440693	25	0.4	< 0.5	467	912	10	9	7	70	2.36	6	< 10	38	< 0.5	2	5.57	34	6	5.53	< 10
1440694	29	0.5	< 0.5	826	1060	4	8	< 2	62	2.74	< 2	< 10	27	< 0.5	< 2	4.16	22	7	5.08	< 10
1440695	15	0.4	< 0.5	927	921	4	10	3	84	2.62	< 2	< 10	36	< 0.5	< 2	2.45	22	9	4.77	< 10
1440696	18	< 0.2	< 0.5	896	793	3	10	< 2	66	2.65	< 2	< 10	144	< 0.5	< 2	3.31	16	9	5.59	< 10
1440697	306	28.4	< 0.5	3920	424	776	15	41	47	0.44	29	< 10	95	< 0.5	< 2	1.38	4	23	1.97	< 10
1440698	27	0.7	< 0.5	1320	807	5	20	5	68	2.6	7	< 10	64	< 0.5	< 2	3.14	18	29	5.66	< 10
1440699	41	0.9	< 0.5	1680	817	2	19	5	71	2.84	6	< 10	41	< 0.5	< 2	4.49	18	39	5.5	< 10
1440700	15	0.6	< 0.5	1430	621	3	19	3	47	2.89	< 2	< 10	39	< 0.5	< 2	3.6	22	26	5.29	< 10

Report: A13-08000 (i)			Final Report																	
Report Date: 7/2			Activation Laboratories																	
Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440701	< 1	0.19	< 10	2.76	0.071	0.116	1.23	< 2	13	40	0.26	< 1	< 2	< 10	258	< 10	9	8		
1440702	< 1	0.12	13	1.27	0.242	0.087	< 0.01	4	7	86	0.31	2	< 2	< 10	99	< 10	12	23		
1440703	< 1	0.28	< 10	2.02	0.056	0.096	2.72	3	9	42	0.19	< 1	< 2	< 10	187	< 10	9	7		
1440704	< 1	0.22	< 10	2.52	0.07	0.127	1.16	2	14	44	0.22	< 1	< 2	< 10	242	< 10	11	9		
1440705	< 1	0.13	< 10	2.05	0.062	0.096	1.9	3	10	44	0.19	2	< 2	< 10	195	< 10	9	6		
1440706	< 1	0.13	< 10	2.51	0.056	0.113	1.74	3	10	67	0.26	7	< 2	< 10	222	< 10	9	7		
1440707	< 1	0.22	< 10	2.58	0.08	0.116	1.05	3	11	45	0.26	2	< 2	< 10	240	< 10	9	9		
1440708	< 1	0.17	< 10	2.18	0.071	0.114	0.68	3	8	66	0.24	< 1	< 2	< 10	211	< 10	7	10		
1440709	< 1	0.14	< 10	2.32	0.069	0.106	0.93	2	9	75	0.25	7	2	< 10	214	< 10	7	9		
1440710	< 1	0.15	< 10	2.42	0.074	0.11	0.91	3	10	74	0.26	9	< 2	< 10	217	< 10	8	9		
1440711	< 1	0.14	< 10	2.5	0.066	0.126	0.8	< 2	12	51	0.25	1	< 2	< 10	256	< 10	9	8		
1440712	3	0.17	< 10	2.3	0.074	0.126	0.95	2	10	66	0.23	2	< 2	< 10	236	< 10	8	8		
1440713	< 1	0.19	< 10	2.54	0.104	0.127	0.92	< 2	11	86	0.26	< 1	< 2	< 10	255	< 10	9	6		
1440714	< 1	0.18	< 10	2	0.15	0.115	1.03	2	7	235	0.23	4	< 2	< 10	235	< 10	7	5		
1440715	< 1	0.18	< 10	2.21	0.093	0.117	1.71	2	7	192	0.24	< 1	< 2	< 10	219	< 10	7	5		
1440716	< 1	0.23	< 10	2.04	0.115	0.116	1.15	3	9	190	0.25	1	< 2	< 10	234	< 10	8	6		
1440717	< 1	0.19	< 10	1.78	0.119	0.121	0.82	< 2	6	153	0.22	< 1	< 2	< 10	205	< 10	6	7		
1440718	< 1	0.27	< 10	2.04	0.063	0.123	0.9	3	10	122	0.24	2	< 2	< 10	216	< 10	8	6		
1440719	< 1	0.23	< 10	2.04	0.055	0.127	0.81	< 2	10	119	0.23	11	< 2	< 10	222	< 10	9	6		
1440720	< 1	0.26	< 10	1.93	0.04	0.114	1.53	2	10	84	0.26	2	< 2	< 10	184	< 10	10	5		
1440721	< 1	0.16	< 10	2.2	0.043	0.108	1.84	< 2	9	81	0.26	7	< 2	< 10	190	< 10	7	6		
1440722	1	0.15	< 10	0.11	0.037	0.047	0.56	62	< 1	174	< 0.01	< 1	< 2	< 10	13	< 10	4	2		
1440723	< 1	0.09	< 10	2.39	0.041	0.132	0.98	4	8	121	0.25	< 1	< 2	< 10	234	< 10	7	7		
1440724	< 1	0.11	< 10	2.26	0.047	0.125	1.06	3	7	159	0.24	1	< 2	< 10	212	< 10	7	6		
1440725	< 1	0.1	< 10	2.22	0.04	0.117	1.49	< 2	8	116	0.23	< 1	< 2	< 10	193	< 10	7	5		
1440726	< 1	0.09	13	1.25	0.193	0.088	0.01	2	7	76	0.3	3	< 2	< 10	96	< 10	12	22		
1440727	< 1	0.09	< 10	2.37	0.039	0.132	1.36	< 2	7	126	0.25	4	< 2	< 10	201	< 10	7	5		
1440728	< 1	0.07	< 10	2.56	0.04	0.119	1.98	3	8	147	0.28	6	< 2	< 10	208	< 10	8	4		
1440729	< 1	0.09	< 10	2.57	0.04	0.115	2.14	3	7	84	0.29	2	< 2	< 10	190	< 10	7	5		
1440730	< 1	0.08	< 10	2.26	0.041	0.106	1.11	3	8	161	0.24	6	< 2	< 10	197	< 10	6	5		
1440731	< 1	0.08	< 10	2.25	0.04	0.105	1.13	3	8	160	0.24	7	< 2	< 10	199	< 10	6	5		
1440732	< 1	0.1	< 10	2	0.059	0.118	0.95	3	6	149	0.24	< 1	< 2	< 10	199	< 10	6	7		
1440733	< 1	0.1	< 10	2.23	0.047	0.112	1.06	< 2	9	134	0.24	< 1	< 2	< 10	213	< 10	7	7		
1440734	< 1	0.1	< 10	2.61	0.052	0.111	1.71	3	11	123	0.26	< 1	< 2	< 10	222	< 10	7	6		
1440735	< 1	0.07	< 10	2.15	0.033	0.092	2.51	3	5	80	0.22	3	< 2	< 10	153	< 10	5	5		
1440736	< 1	0.07	< 10	2.51	0.038	0.114	2.08	2	5	114	0.26	4	< 2	< 10	157	< 10	5	7		
1440737	< 1	0.09	< 10	2.36	0.039	0.11	1.59	3	9	85	0.22	< 1	< 2	< 10	166	< 10	7	9		
1440738	< 1	0.19	< 10	2.05	0.039	0.109	1.82	< 2	6	68	0.12	< 1	< 2	< 10	132	< 10	8	4		
1440739	< 1	0.35	< 10	1.64	0.051	0.11	1.68	< 2	5	52	0.17	4	< 2	< 10	116	< 10	7	5		
1440740	< 1	0.24	< 10	2.09	0.04	0.117	1.21	< 2	9	79	0.2	< 1	< 2	< 10	158	< 10	9	4		
1440741	< 1	0.28	< 10	2.89	0.045	0.128	2.24	2	12	61	0.28	2	< 2	< 10	206	< 10	10	4		
1440742	8	0.23	< 10	3.04	0.06	0.11	4.32	4	11	60	0.17	12	< 2	< 10	182	< 10	7	5		
1440743	2	0.33	< 10	3.4	0.028	0.12	3.4	4	12	55	0.19	2	< 2	< 10	197	< 10	6	6		
1440744	16	0.21	< 10	1.27	0.015	0.069	9.54	6	5	57	0.05	109	< 2	< 10	81	< 10	5	6	0.642	
1440745	1	0.34	< 10	2.11	0.038	0.119	2.19	< 2	5	54	0.1	6	< 2	< 10	119	< 10	5	4		
1440746	< 1	0.37	< 10	1.82	0.038	0.12	2.08	< 2	5	42	0.06	2	< 2	< 10	99	< 10	6	3		

Report: A13-08000 (i)			Final Report																	
Report Date: 7/2			Activation Laboratories																	
Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440747	1	0.15	< 10	0.11	0.036	0.047	0.56	60	< 1	175	< 0.01	7	< 2	< 10	12	< 10	4	2		
1440748	< 1	0.29	< 10	2.02	0.048	0.119	2.11	< 2	5	60	0.1	< 1	< 2	< 10	121	< 10	6	3		
1440749	< 1	0.32	< 10	2.09	0.046	0.118	1.75	< 2	5	51	0.07	< 1	< 2	< 10	122	< 10	6	3		
1440750	< 1	0.1	13	1.14	0.203	0.087	0.02	3	6	70	0.31	2	< 2	< 10	100	< 10	12	23		
1440751	< 1	0.32	< 10	2.22	0.06	0.119	1.84	< 2	5	39	0.12	< 1	< 2	< 10	132	< 10	6	4		
1440752	< 1	0.15	< 10	1.78	0.047	0.1	1.84	2	6	65	0.09	< 1	< 2	< 10	125	< 10	5	3		
1440753	< 1	0.16	< 10	1.63	0.039	0.104	2.06	< 2	4	85	0.04	< 1	< 2	< 10	101	< 10	5	3		
1440754	< 1	0.23	< 10	1.89	0.03	0.102	2.06	< 2	5	87	< 0.01	< 1	< 2	< 10	99	< 10	5	3		
1440755	< 1	0.1	< 10	2.01	0.043	0.096	1.86	3	8	105	0.04	< 1	< 2	< 10	138	< 10	6	4		
1440756	< 1	0.11	< 10	2	0.049	0.092	1.76	3	9	86	0.06	< 1	< 2	< 10	153	< 10	7	4		
1440757	< 1	0.12	< 10	2.13	0.056	0.099	1.48	2	10	79	0.05	< 1	< 2	< 10	172	< 10	8	5		
1440758	< 1	0.13	< 10	2.2	0.056	0.097	1.96	2	9	79	0.06	< 1	< 2	< 10	165	< 10	7	5		
1440759	< 1	0.13	< 10	2.22	0.055	0.098	1.97	3	10	78	0.06	< 1	< 2	< 10	162	< 10	7	5		
1440760	< 1	0.18	< 10	2	0.08	0.101	2.87	2	10	97	0.12	3	< 2	< 10	165	< 10	8	7		
1440761	2	0.18	< 10	2.42	0.074	0.112	2.14	2	15	95	0.18	< 1	< 2	< 10	269	< 10	7	7		
1440762	< 1	0.13	< 10	2.16	0.056	0.102	2.72	5	11	107	0.14	4	< 2	< 10	211	< 10	6	6		
1440763	2	0.12	< 10	2.75	0.051	0.093	2.1	< 2	15	110	0.11	7	2	< 10	215	< 10	8	7		
1440764	< 1	0.12	< 10	2.77	0.061	0.118	4.32	3	14	97	0.14	1	< 2	< 10	250	< 10	8	6		
1440765	< 1	0.11	< 10	2.4	0.061	0.115	3.1	3	13	102	0.14	< 1	< 2	< 10	239	< 10	8	6		
1440766	< 1	0.22	< 10	2.53	0.056	0.107	1.06	3	14	85	0.13	< 1	< 2	< 10	230	< 10	8	6		
1440767	< 1	0.31	< 10	2.01	0.063	0.116	2.13	< 2	8	71	0.02	< 1	< 2	< 10	157	< 10	8	5		
1440768	1	0.08	< 10	1.38	0.034	0.083	2.05	< 2	6	90	0.02	5	3	< 10	104	< 10	6	4		
1440769	< 1	0.1	< 10	1.58	0.041	0.091	1.14	3	7	88	0.04	< 1	< 2	< 10	115	< 10	6	4		
1440770	2	0.15	< 10	0.11	0.036	0.045	0.55	61	< 1	168	< 0.01	4	< 2	< 10	12	< 10	3	2		
1440771	< 1	0.11	< 10	1.9	0.049	0.102	1.15	< 2	8	71	0.13	5	< 2	< 10	144	< 10	6	5		
1440772	< 1	0.14	< 10	1.67	0.061	0.091	2.24	< 2	8	70	0.16	< 1	< 2	< 10	141	< 10	6	6		
1440773	< 1	0.09	13	1.13	0.187	0.085	0.01	2	6	65	0.3	3	< 2	< 10	95	< 10	12	22		
1440774	< 1	0.2	< 10	1.89	0.116	0.105	1.1	< 2	9	100	0.19	< 1	< 2	< 10	164	< 10	7	7		
1440775	< 1	0.13	< 10	1.98	0.063	0.113	0.96	< 2	9	64	0.18	6	2	< 10	166	< 10	7	7		
1440776	< 1	0.14	< 10	1.98	0.063	0.114	0.98	3	9	67	0.18	< 1	< 2	< 10	172	< 10	7	7		
1440777	< 1	0.18	< 10	1.97	0.094	0.109	2	< 2	9	86	0.18	3	< 2	< 10	160	< 10	7	7		
1440778	< 1	0.2	< 10	1.54	0.068	0.1	3.9	2	8	52	0.15	6	< 2	< 10	141	< 10	8	8		
1440779	< 1	0.3	< 10	1.66	0.076	0.099	2.97	< 2	7	55	0.12	1	< 2	< 10	119	< 10	8	7		
1440780	< 1	0.16	< 10	1.84	0.067	0.101	2.15	3	8	67	0.16	4	< 2	< 10	143	< 10	7	6		
1440781	< 1	0.17	< 10	1.71	0.095	0.108	2.9	3	10	63	0.17	8	< 2	< 10	158	< 10	8	7		
1440782	< 1	0.17	< 10	1.68	0.122	0.128	3.38	< 2	9	60	0.13	< 1	< 2	< 10	151	< 10	8	7		
1440783	< 1	0.32	< 10	1.49	0.091	0.147	3.72	2	6	52	0.05	2	< 2	< 10	111	< 10	9	8		
1440784	< 1	0.23	< 10	1.62	0.076	0.105	2.74	< 2	8	53	0.14	2	< 2	< 10	138	< 10	8	8		
1440785	< 1	0.17	< 10	1.83	0.083	0.095	2.42	< 2	9	61	0.17	4	< 2	< 10	157	< 10	8	9		
1440786	< 1	0.12	< 10	1.19	0.058	0.075	1.61	< 2	6	62	0.1	< 1	< 2	< 10	105	< 10	5	4		
1440787	< 1	0.2	< 10	2.64	0.066	0.108	2.13	< 2	12	54	0.25	< 1	< 2	< 10	195	< 10	9	7		
1440788	< 1	0.22	< 10	2.03	0.101	0.107	2.15	< 2	9	64	0.21	5	< 2	< 10	165	< 10	9	7		
1440789	< 1	0.28	< 10	2.07	0.085	0.106	2.02	< 2	10	59	0.22	3	< 2	< 10	174	< 10	9	6		
1440790	< 1	0.28	< 10	1.61	0.077	0.107	2.73	< 2	8	49	0.16	< 1	< 2	< 10	125	< 10	9	8		
1440791	< 1	0.35	< 10	1.64	0.09	0.117	2.59	< 2	8	46	0.16	< 1	< 2	< 10	127	< 10	10	9		
1440792	< 1	0.33	< 10	1.49	0.071	0.13	3.32	2	42	0.17	1	< 2	< 10	110	< 10	9	10			

Report: A13-08000 (i)		Final Report																		
Report Date: 7/2		Activation Laboratories																		
Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440793	< 1	0.33	< 10	1.66	0.096	0.109	3.36	< 2	8	61	0.17	< 1	< 2	< 10	130	< 10	10	10		
1440794	< 1	0.25	< 10	1.75	0.101	0.112	3.1	< 2	9	66	0.18	< 1	< 2	< 10	146	< 10	9	10		
1440795	1	0.15	< 10	0.11	0.036	0.047	0.57	60	< 1	175	< 0.01	8	< 2	< 10	12	< 10	4	2		
1440796	< 1	0.32	< 10	1.23	0.07	0.126	0.99	2	6	70	0.17	< 1	< 2	< 10	93	< 10	13	8		
1440797	< 1	0.45	12	0.68	0.065	0.124	0.02	3	4	48	0.17	< 1	< 2	< 10	57	< 10	14	9		
1440798	< 1	0.1	13	1.19	0.144	0.089	< 0.01	3	6	53	0.29	< 1	< 2	< 10	93	< 10	14	22		
1440799	< 1	0.28	12	0.91	0.055	0.133	0.04	< 2	5	48	0.17	3	< 2	< 10	67	< 10	16	10		
1440800	< 1	0.25	11	0.8	0.045	0.121	0.04	2	5	34	0.15	< 1	< 2	< 10	61	< 10	13	9		
1440801	< 1	0.27	< 10	1.58	0.098	0.129	0.78	3	8	49	0.2	3	< 2	< 10	107	< 10	11	8		
1440802	< 1	0.3	< 10	1.94	0.116	0.117	1.63	< 2	10	80	0.2	< 1	< 2	< 10	165	< 10	8	7		
1440803	< 1	0.22	< 10	2.03	0.089	0.12	1.94	2	9	79	0.21	3	< 2	< 10	167	< 10	7	7		
1440804	< 1	0.25	< 10	2.09	0.091	0.116	2.06	< 2	9	65	0.21	2	< 2	< 10	162	< 10	8	7		
1440805	< 1	0.22	< 10	1.71	0.074	0.118	3.35	3	7	65	0.12	6	< 2	< 10	140	< 10	8	6		
1440806	< 1	0.27	< 10	1.93	0.127	0.109	2.14	4	9	71	0.19	2	< 2	< 10	165	< 10	8	7		
1440807	< 1	0.29	< 10	1.9	0.115	0.096	1.9	< 2	9	84	0.19	23	< 2	< 10	157	< 10	7	6		
1440808	< 1	0.21	< 10	1.93	0.061	0.116	1.47	2	8	51	0.19	4	< 2	< 10	148	< 10	8	6		
1440809	< 1	0.23	< 10	1.9	0.121	0.117	1.71	< 2	10	108	0.21	6	< 2	< 10	179	< 10	8	6		
1440810	< 1	0.17	< 10	1.86	0.079	0.097	2.47	2	10	50	0.21	3	< 2	< 10	174	< 10	7	7		
1440811	< 1	0.18	< 10	1.85	0.086	0.081	2.56	3	11	61	0.18	1	< 2	< 10	168	< 10	8	8		
1440812	< 1	0.27	< 10	1.67	0.081	0.111	2.22	2	8	53	0.14	< 1	< 2	< 10	129	< 10	9	8		
1440813	< 1	0.35	< 10	1.53	0.069	0.121	2.62	3	7	59	0.17	< 1	< 2	< 10	115	< 10	9	9		
1440814	< 1	0.35	< 10	1.82	0.076	0.117	2.48	< 2	8	56	0.18	3	< 2	< 10	135	< 10	9	8		
1440815	< 1	0.41	< 10	1.34	0.053	0.114	2.7	< 2	6	43	0.15	< 1	< 2	< 10	97	< 10	10	10		
1440816	< 1	0.39	< 10	1.98	0.071	0.12	2.04	< 2	8	70	0.17	3	< 2	< 10	127	< 10	10	7		
1440817	< 1	0.26	< 10	1.67	0.082	0.098	1.7	2	8	159	0.13	< 1	< 2	< 10	141	< 10	7	6		
1440818	< 1	0.22	< 10	1.97	0.09	0.106	1.48	< 2	9	62	0.22	< 1	< 2	< 10	165	< 10	7	6		
1440819	< 1	0.41	< 10	1.97	0.137	0.114	2.05	< 2	9	100	0.2	< 1	< 2	< 10	157	< 10	8	6		
1440820	< 1	0.15	< 10	0.11	0.035	0.045	0.54	56	< 1	172	< 0.01	< 1	< 2	< 10	12	< 10	3	2		
1440821	< 1	0.47	< 10	2.07	0.142	0.117	1.76	< 2	10	208	0.22	5	< 2	< 10	186	< 10	8	5		
1440822	< 1	0.25	< 10	2.12	0.124	0.126	1.46	3	10	93	0.23	< 1	< 2	< 10	186	< 10	8	7		
1440823	< 1	0.28	< 10	1.94	0.104	0.126	1.85	3	9	64	0.22	9	< 2	< 10	163	< 10	8	6		
1440824	< 1	0.11	13	1.14	0.169	0.085	0.01	6	7	60	0.29	< 1	< 2	< 10	95	< 10	13	18		
1440825	< 1	0.34	< 10	2.04	0.126	0.116	1.35	2	10	91	0.22	2	< 2	< 10	173	< 10	8	6		
1440826	< 1	0.33	< 10	1.79	0.137	0.098	2.35	2	9	67	0.19	2	< 2	< 10	154	< 10	8	6		
1440827	< 1	0.2	< 10	1.72	0.079	0.109	1.51	< 2	7	66	0.15	< 1	< 2	< 10	143	< 10	8	5		
1440828	< 1	0.21	< 10	1.77	0.081	0.114	1.57	3	7	68	0.16	4	< 2	< 10	149	< 10	8	5		
1440829	< 1	0.22	< 10	1.77	0.111	0.105	1.33	< 2	8	78	0.2	6	< 2	< 10	145	< 10	7	5		
1440830	< 1	0.34	< 10	1.28	0.128	0.092	1.26	< 2	7	55	0.18	< 1	< 2	< 10	119	< 10	8	8		
1440831	< 1	0.44	< 10	1.9	0.145	0.111	1.49	< 2	10	69	0.21	< 1	< 2	< 10	167	< 10	8	7		
1440832	< 1	0.45	< 10	1.87	0.169	0.104	1.34	2	10	72	0.22	1	< 2	< 10	169	< 10	8	5		
1440833	< 1	0.31	< 10	1.66	0.156	0.116	1.34	< 2	10	62	0.22	2	4	< 10	157	< 10	9	7		
1440834	< 1	0.37	< 10	1.89	0.174	0.104	1.12	< 2	10	73	0.22	< 1	< 2	< 10	170	< 10	8	6		
1440835	< 1	0.3	< 10	1.92	0.141	0.108	1.77	< 2	10	65	0.22	2	< 2	< 10	160	< 10	8	6		
1440836	< 1	0.23	< 10	1.61	0.15	0.105	1.4	< 2	8	66	0.21	< 1	< 2	< 10	146	< 10	8	7		
1440837	< 1	0.35	< 10	1.45	0.136	0.102	1.5	< 2	8	44	0.09	1	2	< 10	132	< 10	9	6		
1440838	< 1	0.35	< 10	1.8	0.153	0.111	1.99	< 2	8	87	0.2	6	< 2	< 10	166	< 10	9	7		

Report: A13-08000 (i)		Final Report																		
Report Date: 7/2		Activation Laboratories																		
Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440839	< 1	0.38	< 10	2.06	0.191	0.108	1.33	< 2	11	301	0.24	6	< 2	< 10	185	< 10	9	7		
1440840	< 1	0.3	< 10	1.46	0.161	0.094	1.07	< 2	8	78	0.19	10	< 2	< 10	139	< 10	8	8		
1440841	< 1	0.25	< 10	1.57	0.159	0.099	1.03	< 2	9	69	0.2	3	< 2	< 10	162	< 10	8	6		
1440842	< 1	0.26	< 10	1.23	0.184	0.107	1.08	2	6	72	0.21	3	< 2	< 10	140	< 10	8	7		
1440843	< 1	0.41	< 10	1.33	0.208	0.1	0.99	< 2	7	99	0.21	3	2	< 10	146	< 10	9	7		
1440844	2	0.16	< 10	0.11	0.037	0.047	0.56	60	< 1	177	< 0.01	4	< 2	< 10	13	< 10	4	2		
1440845	< 1	0.48	< 10	1.81	0.202	0.107	1.03	3	10	101	0.23	< 1	< 2	< 10	164	< 10	9	6		
1440846	< 1	0.34	< 10	1.63	0.15	0.104	0.84	2	9	83	0.22	< 1	< 2	< 10	156	< 10	9	6		
1440847	< 1	0.12	12	1.12	0.253	0.082	0.01	4	7	86	0.29	4	< 2	< 10	91	< 10	12	18		
1440848	< 1	0.35	< 10	0.88	0.124	0.074	0.52	< 2	5	53	0.17	4	< 2	< 10	91	< 10	7	11		
1440849	< 1	0.32	11	0.61	0.116	0.064	0.42	< 2	4	42	0.16	5	< 2	< 10	80	< 10	6	13		
1440850	< 1	0.33	10	0.61	0.125	0.064	0.4	< 2	4	42	0.15	< 1	< 2	< 10	81	< 10	6	12		
1440851	1	0.35	< 10	1.7	0.191	0.106	0.8	< 2	8	165	0.23	2	< 2	< 10	170	< 10	7	6		
1440852	< 1	0.34	< 10	1.53	0.183	0.109	1.13	< 2	6	184	0.21	4	< 2	< 10	150	< 10	7	6		
1440853	< 1	0.44	< 10	1.62	0.163	0.105	0.65	3	8	110	0.2	< 1	< 2	< 10	144	< 10	10	5		
1440854	< 1	0.4	< 10	1.66	0.194	0.104	0.6	< 2	9	128	0.22	< 1	< 2	< 10	149	< 10	9	6		
1440855	< 1	0.31	< 10	1.6	0.2	0.102	0.4	2	8	107	0.22	2	< 2	< 10	157	< 10	8	5		
1440856	< 1	0.41	< 10	1.78	0.171	0.103	0.52	< 2	10	88	0.22	< 1	< 2	< 10	163	< 10	9	5		
1440857	1	0.34	< 10	1.68	0.188	0.105	1.02	< 2	9	138	0.24	7	< 2	< 10	170	< 10	9	6		
1440677	< 1	0.63	< 10	1.2	0.018	0.123	2.85	3	6	72	< 0.01	6	< 2	< 10	70	< 10	9	7		
1440678	< 1	0.76	< 10	1.45	0.043	0.117	0.99	2	8	56	0.05	< 1	< 2	< 10	142	< 10	11	9		
1440679	< 1	0.31	< 10	2.25	0.1	0.126	0.33	3	14	38	0.25	5	< 2	< 10	262	< 10	13	11		
1440680	< 1	0.34	< 10	2.42	0.111	0.126	0.45	< 2	13	45	0.25	5	< 2	< 10	258	< 10	11	11		
1440681	< 1	0.31	< 10	2.33	0.118	0.123	0.4	3	13	55	0.25	1	< 2	< 10	275	< 10	10	13		
1440682	< 1	0.45	< 10	2.24	0.107	0.121	0.35	2	12	65	0.21	2	< 2	< 10	254	< 10	10	13		
1440683	< 1	0.6	< 10	1.83	0.061	0.114	1.98	2	8	32	0.13	< 1	< 2	< 10	164	< 10	10	12		
1440684	< 1	0.47	< 10	2.24	0.086	0.123	0.96	2	10	49	0.21	3	< 2	< 10	229	< 10	10	13		
1440685	< 1	0.33	< 10	2.33	0.113	0.118	0.36	< 2	13	66	0.27	5	< 2	< 10	271	< 10	10	13		
1440686	< 1	0.24	< 10	2.25	0.191	0.128	0.15	3	14	151	0.25	< 1	< 2	< 10	274	< 10	11	14		
1440687	< 1	0.3	< 10	2.02	0.143	0.125	0.08	3	11	87	0.21	3	< 2	< 10	251	< 10	10	12		
1440688	< 1	0.58	< 10	1.89	0.068	0.145	1.31	3	6	55	0.07	< 1	< 2	< 10	148	< 10	10	11		
1440689	< 1	0.49	< 10	1.98	0.055	0.119	1.54	2	6	39	0.09	< 1	< 2	< 10	138	< 10	10	11		
1440690	< 1	0.66	< 10	1.7	0.055	0.119	1.66	< 2	6	52	0.06	< 1	< 2	< 10	136	< 10	10	9		
1440691	< 1	0.37	< 10	1.7	0.127	0.118	1.5	3	6	92	0.04	< 1	< 2	< 10	150	< 10	9	9		
1440692	< 1	0.39	< 10	1.61	0.049	0.113	2.25	4	5	50	0.02	< 1	< 2	< 10	109	< 10	10	9		
1440693	< 1	0.33	< 10	1.38	0.035	0.115	3.57	3	5	48	0.01	3	< 2	< 10	103	< 10	9	9		
1440694	< 1	0.38	< 10	1.9	0.05	0.123	1.85	3	6	75	0.02	< 1	< 2	< 10	129	< 10	9	9		
1440695	< 1	0.43	< 10	2.02	0.048	0.125	1.21	4	6	41	< 0.01	< 1	< 2	< 10	157	< 10	10	8		
1440696	< 1	0.39	< 10	2	0.039	0.122	0.31	< 2	6	48	< 0.01	< 1	< 2	< 10	162	< 10	11	7		
1440697	< 1	0.16	< 10	0.12	0.038	0.047	0.56	61	< 1	173	< 0.01	4	< 2	< 10	13	< 10	4	2		
1440698	< 1	0.15	< 10	2.71	0.072	0.105	0.66	3	15	49	0.24	2	< 2	< 10	253	< 10	10	10		
1440699	< 1	0.16	< 10	2.51	0.056	0.105	1.47	4	13	60	0.2	< 1	< 2	< 10	228	< 10	9	9		
1440700	< 1	0.16	< 10	2.49	0.058	0.111	0.8	3	14	57	0.25	< 1	< 2	< 10	241	< 10	11	10		

Final Report
Activation Laboratories

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440858	10	< 0.2	< 0.5	558	204	18	12	< 2	23	2.22	9	< 10	56	< 0.5	< 2	1.63	14	19	3.42	< 10
1440859	< 5	< 0.2	< 0.5	207	349	6	4	< 2	28	1.65	3	< 10	87	< 0.5	< 2	1.86	9	13	2.8	< 10
1440860	< 5	< 0.2	< 0.5	211	279	4	4	< 2	23	1.63	< 2	< 10	94	< 0.5	< 2	1.79	10	12	2.68	< 10
1440861	19	0.4	< 0.5	1250	279	23	12	< 2	23	1.86	< 2	< 10	38	< 0.5	< 2	1.98	17	15	3.14	< 10
1440862	23	0.4	< 0.5	1470	173	31	12	< 2	23	2.19	3	< 10	36	< 0.5	< 2	2.02	15	18	3.14	< 10
1440863	13	0.3	< 0.5	1760	192	54	10	< 2	17	1.64	< 2	< 10	28	< 0.5	< 2	2.56	24	12	4.81	< 10
1440864	11	< 0.2	< 0.5	1010	159	18	10	< 2	19	1.9	< 2	< 10	38	< 0.5	< 2	1.75	17	17	3.19	< 10
1440865	17	< 0.2	< 0.5	813	210	24	10	< 2	23	2.38	4	< 10	47	< 0.5	< 2	2.07	16	18	3.52	< 10
1440866	9	< 0.2	< 0.5	451	245	25	7	< 2	23	1.72	< 2	< 10	67	< 0.5	< 2	1.87	10	16	2.5	< 10
1440867	< 5	< 0.2	< 0.5	404	237	6	5	3	20	1.67	2	< 10	82	< 0.5	< 2	2.1	10	15	2.68	< 10
1440868	< 5	< 0.2	< 0.5	317	294	15	6	< 2	26	1.85	2	< 10	89	< 0.5	< 2	2.11	12	14	2.93	< 10
1440869	8	< 0.2	< 0.5	350	326	55	7	< 2	27	1.98	3	< 10	70	< 0.5	< 2	2.28	11	15	3.25	< 10
1440870	374	30.9	< 0.5	3590	388	699	13	41	44	0.41	26	< 10	105	< 0.5	8	1.28	3	22	1.82	< 10
1440871	12	0.2	< 0.5	663	242	14	9	< 2	27	2.06	< 2	< 10	64	< 0.5	< 2	1.98	12	19	3.07	< 10
1440872	< 5	< 0.2	< 0.5	32	583	2	15	4	64	2.01	< 2	< 10	71	< 0.5	< 2	1.51	16	21	3.8	< 10
1440873	13	< 0.2	< 0.5	804	217	6	11	< 2	29	2.7	< 2	< 10	51	< 0.5	< 2	2.38	10	14	2.7	< 10
1440874	32	0.4	< 0.5	2120	182	10	11	3	31	2.14	< 2	< 10	64	< 0.5	< 2	1.66	11	16	2.39	< 10
1440875	31	0.4	< 0.5	2140	185	10	11	< 2	31	2.19	< 2	< 10	64	< 0.5	2	1.69	11	16	2.47	< 10
1440876	11	0.2	< 0.5	989	187	17	11	< 2	28	2.25	< 2	< 10	62	< 0.5	< 2	1.71	15	19	3.2	< 10
1440877	< 5	< 0.2	< 0.5	828	199	24	13	< 2	26	2.27	< 2	< 10	53	< 0.5	< 2	1.92	15	16	4.43	< 10
1440878	23	0.3	< 0.5	2040	152	25	12	< 2	25	2.02	< 2	< 10	35	< 0.5	< 2	1.84	16	17	4.04	< 10
1440879	8	< 0.2	< 0.5	1110	165	21	12	< 2	19	2.05	< 2	< 10	46	< 0.5	< 2	1.92	17	20	3.51	< 10
1440880	< 5	< 0.2	< 0.5	562	219	9	8	< 2	20	1.67	3	< 10	69	< 0.5	< 2	1.66	11	17	2.86	< 10
1440881	6	< 0.2	< 0.5	375	256	6	6	< 2	21	1.71	< 2	< 10	82	< 0.5	< 2	1.98	12	24	2.82	< 10
1440882	8	< 0.2	< 0.5	488	218	11	12	< 2	23	2.21	< 2	< 10	63	< 0.5	< 2	2.09	10	17	2.8	< 10
1440883	< 5	< 0.2	< 0.5	511	192	7	11	< 2	20	2.43	< 2	< 10	61	< 0.5	< 2	2.15	10	19	2.75	< 10
1440884	44	1	< 0.5	3240	184	23	12	< 2	29	2.24	< 2	< 10	46	< 0.5	< 2	2.03	13	18	2.87	< 10
1440885	7	< 0.2	< 0.5	707	186	13	11	< 2	23	2.41	< 2	< 10	63	< 0.5	< 2	1.98	9	19	2.68	< 10
1440886	19	0.4	< 0.5	1240	176	16	10	< 2	24	3.24	< 2	< 10	100	< 0.5	< 2	2.01	7	22	2.15	< 10
1440887	18	0.3	< 0.5	950	166	24	11	< 2	21	3.42	< 2	25	136	< 0.5	< 2	1.93	10	23	2.31	< 10
1440888	21	0.3	< 0.5	1560	156	9	10	< 2	21	2.99	< 2	< 10	97	< 0.5	< 2	2.14	9	18	2.41	< 10
1440889	17	0.3	< 0.5	1020	196	18	10	< 2	23	3.02	10	< 10	90	< 0.5	< 2	2.34	9	20	3.51	< 10
1440890	12	< 0.2	< 0.5	963	170	16	9	< 2	23	3.3	< 2	< 10	109	< 0.5	< 2	2.27	9	19	2.9	< 10
1440891	10	< 0.2	< 0.5	1010	162	20	10	< 2	23	3.34	4	< 10	85	< 0.5	< 2	2.09	10	21	2.91	< 10
1440892	20	0.5	< 0.5	1680	148	11	12	< 2	21	2.46	6	< 10	37	< 0.5	< 2	2.18	11	17	3.2	< 10
1440893	26	0.4	< 0.5	1380	146	29	11	< 2	24	3.27	3	17	72	< 0.5	< 2	2.51	11	18	2.63	< 10
1440894	54	1	< 0.5	2840	158	26	13	3	28	3	< 2	< 10	48	< 0.5	< 2	2.82	13	20	3.24	10
1440895	393	29.9	< 0.5	3580	383	694	13	41	43	0.41	25	< 10	119	< 0.5	5	1.27	3	22	1.8	< 10
1440896	27	0.6	< 0.5	2180	175	16	10	< 2	27	2.58	5	< 10	50	< 0.5	< 2	2.09	14	21	3.23	< 10
1440897	< 5	< 0.2	< 0.5	43	596	1	15	5	65	2.16	< 2	< 10	68	< 0.5	< 2	1.74	16	20	3.82	< 10
1440898	24	0.5	< 0.5	1920	161	7	9	< 2	25	2.83	< 2	< 10	58	< 0.5	< 2	2.13	13	16	3.11	< 10
1440899	18	0.4	< 0.5	1650	160	7	9	< 2	20	3.26	4	< 10	73	< 0.5	< 2	2.53	10	17	2.6	< 10
1440900	17	0.3	< 0.5	1600	161	7	9	< 2	19	3.3	10	< 10	75	< 0.5	< 2	2.49	10	17	2.63	10
1440901	52	1	< 0.5	2530	190	9	8	< 2	28	2.63	< 2	< 10	94	< 0.5	< 2	2.07	11	22	2.36	< 10
1440902	12	< 0.2	< 0.5	835	229	4	8	< 2	23	2.43	4	< 10	111	< 0.5	< 2	2.22	8	19	2.62	< 10
1440903	< 5	< 0.2	< 0.5	36	165	< 1	< 1	4	2.95	< 2	< 10	118	< 0.5	< 2	2.47	1	12	1.11	< 10	

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440904	< 5	< 0.2	< 0.5	31	172	< 1	< 1	5	10	1.18	2	< 10	141	< 0.5	< 2	2.6	3	12	1.63	< 10
1440905	7	< 0.2	< 0.5	706	192	< 1	8	< 2	17	1.47	< 2	< 10	198	< 0.5	2	2.87	4	13	1.54	< 10
1440906	17	0.2	< 0.5	1180	222	6	10	< 2	28	2.87	< 2	< 10	57	< 0.5	< 2	1.99	17	17	3.28	< 10
1440907	41	1	< 0.5	2290	255	16	11	3	41	3.3	< 2	< 10	33	< 0.5	< 2	1.68	23	24	4.89	< 10
1440908	52	1.1	< 0.5	3490	167	20	10	< 2	40	2.73	2	< 10	38	< 0.5	< 2	2.33	17	18	3.31	< 10
1440909	35	0.8	< 0.5	3280	247	10	8	< 2	43	2.1	2	< 10	29	< 0.5	2	2.73	17	14	4.78	< 10
1440910	57	1.4	< 0.5	4440	160	39	12	2	42	2.86	< 2	< 10	46	< 0.5	4	2.12	17	18	3.12	< 10
1440911	23	0.5	< 0.5	1980	160	39	11	< 2	30	2.68	< 2	< 10	58	< 0.5	< 2	1.99	11	16	2.61	< 10
1440912	81	1.7	< 0.5	4060	368	58	9	6	57	2.57	7	< 10	43	< 0.5	4	2.98	17	17	4.64	< 10
1440913	45	23.2	4.7	395	533	47	18	27	40	1.96	10	< 10	67	17.2	14	2.58	18	37	4.09	< 10
1440914	27	0.4	< 0.5	1490	216	21	12	< 2	26	2.77	< 2	< 10	95	< 0.5	< 2	2.24	11	15	3.5	< 10
1440915	32	0.7	< 0.5	2970	194	35	12	5	30	2.84	< 2	< 10	69	< 0.5	< 2	2.08	13	19	3.56	< 10
1440916	35	0.7	< 0.5	2400	207	43	13	3	33	2.76	2	< 10	55	< 0.5	< 2	2.01	19	19	3.48	< 10
1440917	7	< 0.2	< 0.5	246	235	7	3	< 2	11	1.15	< 2	< 10	226	< 0.5	< 2	2.87	3	21	1.67	< 10
1440918	11	< 0.2	< 0.5	178	208	3	< 1	4	8	1.07	3	< 10	115	< 0.5	< 2	2.89	4	10	1.67	< 10
1440919	6	< 0.2	< 0.5	19	215	3	4	2	10	1.17	< 2	< 10	544	< 0.5	< 2	2.27	3	22	1.68	< 10
1440920	401	30.5	< 0.5	3790	408	740	15	45	46	0.43	28	< 10	114	< 0.5	3	1.35	4	23	1.92	< 10
1440921	< 5	< 0.2	< 0.5	57	173	7	< 1	3	9	0.78	6	< 10	220	< 0.5	< 2	2.48	4	9	1.25	< 10
1440922	11	< 0.2	< 0.5	35	191	8	2	< 2	9	0.98	8	< 10	607	< 0.5	< 2	2.59	2	18	1.25	< 10
1440923	< 5	< 0.2	< 0.5	33	563	1	15	6	65	1.95	2	< 10	55	< 0.5	< 2	1.59	17	20	3.72	< 10
1440924	< 5	< 0.2	< 0.5	23	228	11	3	< 2	11	1.55	< 2	< 10	630	< 0.5	< 2	2.39	2	23	1.66	< 10
1440925	8	< 0.2	< 0.5	260	214	8	3	3	10	1.08	< 2	< 10	154	< 0.5	< 2	2.36	4	10	1.8	< 10
1440926	5	< 0.2	< 0.5	302	213	7	1	3	11	1.06	< 2	< 10	165	< 0.5	< 2	2.32	3	10	1.79	< 10
1440927	< 5	< 0.2	< 0.5	33	246	17	3	< 2	7	1.2	< 2	< 10	236	< 0.5	< 2	2.85	2	22	1.44	< 10
1440928	51	1.1	< 0.5	2970	234	30	8	< 2	44	1.72	< 2	< 10	48	< 0.5	< 2	2.23	13	15	3.09	< 10
1440929	88	2.1	< 0.5	5570	179	60	11	< 2	62	2.18	< 2	< 10	49	< 0.5	3	1.68	18	23	3.5	< 10
1440930	54	1	< 0.5	3880	159	56	11	3	35	2.63	3	< 10	50	< 0.5	3	2.16	16	16	3.26	< 10
1440931	57	1.6	< 0.5	3550	151	54	10	< 2	50	1.98	3	< 10	42	< 0.5	4	2.06	18	17	2.92	< 10
1440932	36	0.7	< 0.5	2250	156	51	13	< 2	33	2.29	< 2	< 10	51	< 0.5	< 2	1.82	19	20	3.41	< 10
1440933	24	0.5	< 0.5	1630	146	43	14	< 2	30	2.83	3	10	60	< 0.5	< 2	2.06	14	19	3.2	< 10
1440934	48	0.9	< 0.5	3000	152	22	11	< 2	35	2.68	< 2	21	65	< 0.5	< 2	1.83	11	19	3.26	< 10
1440935	64	1.1	< 0.5	2910	161	17	12	5	38	2.84	< 2	15	54	< 0.5	< 2	2	12	20	2.98	< 10
1440936	32	0.7	< 0.5	1780	200	8	10	< 2	41	2.52	3	< 10	38	< 0.5	< 2	2.17	9	16	3.07	< 10
1440937	51	1.1	< 0.5	2300	178	4	10	2	38	2.77	< 2	< 10	36	< 0.5	< 2	2.29	9	16	3.44	10
1440938	10	< 0.2	< 0.5	616	147	13	9	< 2	25	3.09	< 2	< 10	50	< 0.5	< 2	2.79	9	17	2.26	< 10
1440939	173	0.8	< 0.5	2920	162	4	12	< 2	31	3.61	2	12	61	< 0.5	< 2	2.78	12	20	3.25	< 10
1440940	381	31	< 0.5	3830	395	694	14	39	45	0.43	27	< 10	117	< 0.5	8	1.31	3	23	1.87	< 10
1440941	42	0.8	< 0.5	2520	131	15	10	< 2	23	2.91	5	25	58	< 0.5	< 2	2.11	11	17	3.48	< 10
1440942	27	0.4	< 0.5	1300	157	4	10	< 2	27	2.6	< 2	< 10	48	< 0.5	< 2	2.25	9	16	3.17	< 10
1440943	24	0.7	< 0.5	1280	185	6	10	< 2	32	2.78	5	27	73	< 0.5	< 2	2.14	9	18	3.48	< 10
1440944	< 5	< 0.2	< 0.5	46	611	< 1	15	4	66	2.03	3	< 10	60	< 0.5	< 2	2.06	16	20	3.59	< 10
1440945	11	< 0.2	< 0.5	800	173	17	11	< 2	26	2.69	10	20	61	< 0.5	< 2	1.99	10	19	2.99	< 10
1440946	18	< 0.2	< 0.5	664	188	14	10	< 2	23	2.58	< 2	< 10	62	< 0.5	< 2	1.9	10	18	3.05	< 10
1440947	13	< 0.2	< 0.5	628	207	15	10	< 2	24	2.44	< 2	< 10	79	< 0.5	< 2	2.04	12	19	3.61	< 10
1440948	40	0.6	< 0.5	1460	167	7	9	< 2	28	2.27	< 2	< 10	68	< 0.5	< 2	1.91	10	17	2.89	< 10
1440949	43	0.4	< 0.5	1710	177	12	12	5	42	2.44	< 2	38	111	< 0.5	< 2	2.26	10	23	2.68	< 10

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440950	27	0.4	< 0.5	1810	161	5	11	2	25	3.73	< 2	11	77	< 0.5	< 2	2.66	10	18	3.11	10
1440951	11	< 0.2	< 0.5	585	163	10	12	< 2	20	3.19	8	30	91	< 0.5	< 2	2.24	10	17	3.2	< 10
1440952 (missing)																				

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Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440858	<1	0.2	<10	1.6	0.12	0.112	1.1	<2	8	98	0.24	<1	<2	<10	166	<10	8	4	
1440859	<1	0.17	11	0.85	0.12	0.094	0.62	<2	5	90	0.17	4	<2	<10	88	<10	7	11	
1440860	<1	0.14	11	0.73	0.135	0.087	0.7	3	4	89	0.16	<1	<2	<10	86	<10	7	11	
1440861	<1	0.17	<10	1.37	0.093	0.113	1.29	<2	6	58	0.2	3	<2	<10	136	<10	8	4	
1440862	<1	0.15	<10	1.4	0.091	0.108	1.3	<2	6	67	0.22	5	<2	<10	142	<10	8	3	
1440863	<1	0.13	<10	1.02	0.081	0.1	3.01	3	5	79	0.17	2	<2	<10	113	<10	9	4	
1440864	<1	0.15	<10	1.33	0.096	0.102	1.37	<2	6	69	0.21	5	<2	<10	142	<10	7	3	
1440865	<1	0.18	<10	1.65	0.094	0.106	1.28	2	8	74	0.24	9	<2	<10	165	<10	8	3	
1440866	<1	0.16	<10	1.07	0.096	0.089	0.58	<2	6	58	0.19	3	<2	<10	119	<10	8	4	
1440867	<1	0.15	13	0.75	0.107	0.099	0.83	<2	4	78	0.17	4	<2	<10	102	<10	8	5	
1440868	<1	0.16	14	0.81	0.113	0.097	0.62	2	5	72	0.17	2	<2	<10	102	<10	8	6	
1440869	<1	0.16	11	1.12	0.096	0.104	0.54	<2	7	63	0.18	<1	<2	<10	127	<10	9	5	
1440870	2	0.14	<10	0.1	0.033	0.044	0.55	55	<1	160	<0.01	4	<2	<10	12	<10	3	1	
1440871	<1	0.18	<10	1.39	0.097	0.094	0.66	<2	8	66	0.22	5	<2	<10	134	<10	9	4	
1440872	<1	0.1	15	1.1	0.154	0.086	<0.01	4	6	56	0.3	4	<2	<10	94	<10	13	12	
1440873	<1	0.25	<10	1.67	0.079	0.097	0.29	<2	8	56	0.2	5	<2	<10	138	<10	9	2	
1440874	<1	0.25	<10	1.7	0.1	0.1	0.55	<2	9	61	0.22	2	<2	<10	140	<10	9	2	
1440875	<1	0.26	<10	1.74	0.104	0.101	0.55	<2	9	61	0.23	2	<2	<10	142	<10	9	2	
1440876	<1	0.29	<10	1.89	0.108	0.096	1.08	<2	9	63	0.23	<1	<2	<10	182	<10	8	3	
1440877	<1	0.25	<10	1.78	0.084	0.105	1.31	2	9	65	0.23	<1	<2	<10	165	<10	10	3	
1440878	<1	0.17	<10	1.44	0.105	0.082	2.11	<2	7	85	0.21	6	<2	<10	156	<10	8	3	
1440879	<1	0.18	<10	1.32	0.143	0.107	1.61	<2	6	82	0.21	2	<2	<10	158	<10	8	3	
1440880	<1	0.21	<10	1.07	0.155	0.091	0.97	<2	6	84	0.18	<1	<2	<10	120	<10	8	5	
1440881	<1	0.17	11	0.99	0.117	0.086	0.81	<2	5	76	0.18	5	<2	<10	100	<10	7	6	
1440882	<1	0.25	<10	1.54	0.12	0.093	0.74	<2	8	59	0.22	2	<2	<10	137	<10	9	3	
1440883	<1	0.25	<10	1.76	0.154	0.098	0.74	<2	9	75	0.23	<1	<2	<10	153	<10	9	2	
1440884	<1	0.24	<10	1.49	0.149	0.103	1.14	<2	8	70	0.21	<1	<2	<10	136	<10	9	3	
1440885	<1	0.31	<10	1.68	0.153	0.073	0.75	3	9	68	0.22	3	<2	<10	150	<10	8	3	
1440886	<1	0.45	<10	1.82	0.232	0.098	0.46	<2	9	293	0.22	4	<2	<10	158	<10	7	2	
1440887	<1	0.46	<10	1.87	0.218	0.105	0.48	<2	9	352	0.23	<1	<2	<10	168	<10	7	2	
1440888	<1	0.41	<10	1.63	0.195	0.105	0.79	<2	9	267	0.23	2	<2	<10	168	<10	9	2	
1440889	<1	0.41	<10	1.69	0.182	0.1	0.97	<2	8	261	0.22	2	<2	<10	148	<10	9	2	
1440890	<1	0.34	<10	1.7	0.193	0.095	0.74	<2	8	295	0.23	5	<2	<10	152	<10	8	2	
1440891	<1	0.32	<10	1.77	0.214	0.1	0.85	<2	9	230	0.24	<1	<2	<10	166	<10	8	2	
1440892	<1	0.14	<10	1.41	0.093	0.111	1.69	<2	7	89	0.21	2	<2	<10	150	<10	8	3	
1440893	<1	0.22	<10	1.86	0.137	0.104	0.77	3	9	222	0.23	<1	<2	<10	170	<10	7	2	
1440894	<1	0.2	<10	1.66	0.121	0.095	1.47	2	10	140	0.21	1	<2	<10	172	<10	8	3	
1440895	1	0.14	<10	0.1	0.033	0.044	0.55	57	<1	159	<0.01	6	<2	<10	11	<10	3	1	
1440896	<1	0.14	<10	1.42	0.12	0.101	1.31	2	8	222	0.2	2	<2	<10	147	<10	8	3	
1440897	<1	0.08	14	1.24	0.176	0.086	<0.01	3	7	67	0.29	2	<2	<10	94	<10	13	12	
1440898	<1	0.17	<10	1.58	0.115	0.095	0.9	3	9	200	0.19	2	<2	<10	144	<10	8	3	
1440899	<1	0.2	<10	1.71	0.129	0.088	0.68	<2	8	321	0.2	<1	3	<10	139	<10	8	3	
1440900	2	0.2	<10	1.71	0.131	0.089	0.68	<2	8	323	0.21	2	<2	<10	140	<10	8	3	
1440901	<1	0.16	<10	1.67	0.112	0.094	0.75	<2	8	290	0.17	<1	<2	<10	142	<10	8	3	
1440902	<1	0.27	<10	1.43	0.107	0.087	0.59	2	6	192	0.1	<1	<2	<10	109	<10	7	2	
1440903	<1	0.29	<10	0.32	0.071	0.047	0.04	2	51	0.01	<1	<2	<10	27	<10	4	2		

Final Report
Activation Laboratories

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES
1440904	< 1	0.33	< 10	0.37	0.074	0.053	0.39	2	1	53	< 0.01	< 1	< 2	< 10	30	< 10	4	2	
1440905	< 1	0.28	< 10	0.82	0.065	0.061	0.29	< 2	3	76	0.02	< 1	< 2	< 10	56	< 10	7	2	
1440906	< 1	0.26	< 10	2.08	0.12	0.112	1.09	3	8	191	0.11	3	< 2	< 10	136	< 10	9	2	
1440907	< 1	0.27	< 10	2.78	0.085	0.106	2.13	3	13	127	0.23	1	< 2	< 10	217	< 10	8	2	
1440908	< 1	0.12	< 10	1.54	0.069	0.1	1.53	2	7	63	0.21	4	< 2	< 10	147	< 10	7	3	
1440909	< 1	0.15	< 10	1.27	0.092	0.095	2.59	< 2	6	72	0.17	< 1	< 2	< 10	129	< 10	7	5	
1440910	< 1	0.15	< 10	1.9	0.116	0.109	1.43	< 2	8	89	0.22	< 1	< 2	< 10	165	< 10	7	2	
1440911	< 1	0.18	< 10	1.84	0.115	0.106	0.87	< 2	8	107	0.19	< 1	< 2	< 10	151	< 10	7	2	
1440912	2	0.17	< 10	1.67	0.122	0.104	1.82	2	8	157	0.17	< 1	< 2	< 10	156	< 10	8	3	
1440913	< 1	0.22	23	1.74	0.056	0.126	0.34	19	19	89	0.15	7	< 2	< 10	124	40	15	2	
1440914	< 1	0.46	< 10	1.72	0.122	0.108	0.86	< 2	7	200	0.08	2	< 2	< 10	114	< 10	9	2	
1440915	< 1	0.28	< 10	1.82	0.112	0.1	1.09	2	8	132	0.21	< 1	< 2	< 10	139	< 10	9	2	
1440916	< 1	0.51	< 10	1.77	0.194	0.118	1.3	< 2	9	210	0.22	4	< 2	< 10	160	< 10	9	2	
1440917	< 1	0.44	< 10	0.34	0.08	0.055	0.31	< 2	2	95	0.01	5	< 2	< 10	32	< 10	5	3	
1440918	< 1	0.41	< 10	0.24	0.073	0.048	0.51	2	1	96	< 0.01	< 1	< 2	< 10	20	< 10	5	3	
1440919	< 1	0.44	< 10	0.29	0.106	0.045	0.13	< 2	1	79	< 0.01	7	3	< 10	26	< 10	4	3	
1440920	1	0.15	< 10	0.11	0.035	0.046	0.57	54	< 1	171	< 0.01	8	< 2	< 10	13	< 10	4	1	
1440921	< 1	0.3	< 10	0.26	0.054	0.049	0.29	< 2	1	57	< 0.01	3	< 2	< 10	19	< 10	4	2	
1440922	< 1	0.39	< 10	0.25	0.075	0.046	0.1	< 2	1	93	< 0.01	2	2	< 10	21	< 10	4	2	
1440923	< 1	0.07	14	1.18	0.176	0.087	< 0.01	3	7	67	0.3	7	< 2	< 10	96	< 10	13	11	
1440924	< 1	0.61	< 10	0.3	0.146	0.044	0.04	3	1	90	0.03	1	3	< 10	27	< 10	4	3	
1440925	< 1	0.38	< 10	0.3	0.086	0.049	0.38	< 2	1	89	< 0.01	< 1	< 2	< 10	26	< 10	5	3	
1440926	< 1	0.38	< 10	0.3	0.085	0.047	0.38	< 2	1	90	0.01	< 1	< 2	< 10	25	< 10	4	3	
1440927	< 1	0.52	< 10	0.19	0.082	0.047	0.3	< 2	< 1	89	< 0.01	< 1	< 2	< 10	17	< 10	4	2	
1440928	< 1	0.26	< 10	1.17	0.113	0.101	1.34	< 2	7	60	0.09	< 1	< 2	< 10	117	< 10	10	2	
1440929	< 1	0.22	< 10	1.38	0.151	0.087	1.76	2	9	167	0.17	1	< 2	< 10	153	< 10	9	3	0.577
1440930	< 1	0.22	< 10	1.55	0.11	0.102	1.31	< 2	9	114	0.19	3	< 2	< 10	142	< 10	9	3	
1440931	< 1	0.19	< 10	1.2	0.119	0.106	1.59	2	8	161	0.21	< 1	< 2	< 10	132	< 10	9	3	
1440932	< 1	0.3	< 10	1.58	0.105	0.107	1.62	4	9	116	0.24	< 1	< 2	< 10	146	< 10	9	3	
1440933	< 1	0.21	< 10	1.66	0.123	0.109	1.19	< 2	9	175	0.23	< 1	< 2	< 10	154	< 10	8	3	
1440934	< 1	0.3	< 10	1.62	0.143	0.099	1.28	< 2	10	181	0.22	< 1	< 2	< 10	178	< 10	9	3	
1440935	< 1	0.19	< 10	1.77	0.111	0.088	1.06	< 2	10	145	0.23	3	< 2	< 10	172	< 10	9	2	
1440936	< 1	0.2	< 10	1.67	0.078	0.091	1.14	3	9	95	0.22	< 1	2	< 10	159	< 10	8	2	
1440937	< 1	0.25	< 10	1.66	0.067	0.09	1.11	3	9	58	0.22	2	< 2	< 10	147	< 10	8	3	
1440938	< 1	0.13	< 10	1.63	0.127	0.096	0.71	< 2	9	240	0.2	< 1	< 2	< 10	149	< 10	7	2	
1440939	< 1	0.16	< 10	1.82	0.138	0.108	0.76	3	9	249	0.22	5	< 2	< 10	168	< 10	7	2	
1440940	< 1	0.15	< 10	0.11	0.035	0.045	0.56	60	< 1	165	< 0.01	4	< 2	< 10	12	< 10	4	1	
1440941	< 1	0.2	< 10	1.62	0.125	0.096	1.43	2	10	261	0.21	6	< 2	< 10	168	< 10	8	2	
1440942	< 1	0.25	< 10	1.59	0.1	0.101	0.63	2	8	146	0.18	< 1	< 2	< 10	140	< 10	9	2	
1440943	< 1	0.39	< 10	1.9	0.132	0.114	0.76	3	10	236	0.21	< 1	< 2	< 10	167	< 10	10	3	
1440944	< 1	0.14	16	1.02	0.141	0.086	0.01	3	5	57	0.18	5	< 2	< 10	86	< 10	13	10	
1440945	< 1	0.25	< 10	1.81	0.101	0.1	0.42	< 2	10	186	0.22	< 1	< 2	< 10	169	< 10	8	11	
1440946	< 1	0.25	< 10	1.74	0.1	0.099	0.42	< 2	10	146	0.23	3	< 2	< 10	163	< 10	10	11	
1440947	< 1	0.43	< 10	1.7	0.119	0.1	0.65	< 2	10	148	0.23	< 1	< 2	< 10	164	< 10	10	11	
1440948	< 1	0.46	< 10	1.62	0.103	0.099	1.09	< 2	9	74	0.21	< 1	< 2	< 10	141	< 10	10	2	
1440949	< 1	0.28	< 10	1.93	0.182	0.102	0.39	< 2	10	132	0.22	5	< 2	< 10	169	< 10	8	2	

Final Report
Activation Laboratories

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	Cu	
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	0.001	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	ICP-OES	
1440950	< 1	0.24	< 10	1.93	0.151	0.092	0.41	2	9	194	0.23	1	< 2	< 10	170	< 10	8	3		
1440951	3	0.29	< 10	1.94	0.152	0.104	0.55	< 2	10	227	0.23	< 1	< 2	< 10	172	< 10	9	3		
1440952 (missing)																				

Report: A13-08328 (i)		Final Report																		
Report Date: 7/31/2013		Activation Laboratories																		
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1440952	27	0.4	< 0.5	1090	176	1	10	6	29	3.05	5	11	75	< 0.5	< 2	2.02	10	18	3.44	< 10
1440953	90	0.9	< 0.5	4090	139	10	15	< 2	35	3.09	< 2	36	76	< 0.5	4	1.91	10	24	3.42	< 10
1440954	22	0.3	< 0.5	1150	171	< 1	9	4	31	3.21	3	11	97	< 0.5	< 2	2.00	11	17	3.79	< 10
1440955	31	0.5	< 0.5	1840	150	7	12	< 2	31	3.46	3	41	91	< 0.5	< 2	2.24	11	20	3.37	< 10
1440956	27	0.8	< 0.5	1970	176	6	8	< 2	52	2.27	4	58	38	< 0.5	< 2	2.05	13	16	3.30	< 10
1440957	53	1.2	< 0.5	2740	153	10	11	< 2	49	2.67	< 2	66	46	< 0.5	< 2	2.63	11	14	3.06	< 10
1440958	51	1.1	< 0.5	2590	170	3	9	4	54	2.39	4	73	37	< 0.5	< 2	2.17	11	13	3.09	< 10
1440959	41	0.7	< 0.5	1940	174	3	10	2	40	2.12	2	12	27	< 0.5	< 2	1.96	10	14	2.89	< 10
1440960	40	0.8	< 0.5	1960	177	2	12	< 2	37	1.92	< 2	< 10	25	< 0.5	< 2	1.86	8	14	2.54	< 10
1440961	338	25.6	< 0.5	3680	397	722	13	38	46	0.37	30	< 10	129	< 0.5	7	1.30	4	22	1.82	< 10
1440962	19	0.4	< 0.5	904	163	6	8	4	26	1.90	< 2	< 10	31	< 0.5	< 2	2.14	6	14	1.77	< 10
1440963	27	0.9	< 0.5	1920	148	4	9	3	35	2.30	< 2	< 10	42	< 0.5	< 2	2.14	10	16	2.76	< 10
1440964	< 5	< 0.2	< 0.5	36	573	< 1	11	4	62	1.82	< 2	< 10	46	< 0.5	< 2	1.89	15	19	3.40	< 10
1440965	10	0.3	< 0.5	973	168	2	7	2	26	2.20	4	< 10	49	< 0.5	< 2	2.33	15	14	2.97	< 10
1440966	10	0.3	< 0.5	1000	172	2	8	6	27	2.22	< 2	< 10	50	< 0.5	< 2	2.38	15	14	3.07	< 10
1440967	13	< 0.2	< 0.5	567	172	2	10	< 2	23	2.71	< 2	11	43	< 0.5	< 2	1.93	11	15	3.13	< 10
1440968	16	0.3	< 0.5	1130	172	4	11	< 2	22	2.39	7	32	47	< 0.5	< 2	2.04	11	15	3.43	< 10
1440969	12	< 0.2	< 0.5	1020	167	2	11	9	20	2.73	4	80	41	< 0.5	< 2	2.10	13	16	3.11	< 10
1440970	34	0.4	< 0.5	2690	121	3	10	< 2	20	2.52	< 2	38	36	< 0.5	4	2.17	14	14	2.57	< 10
1440971	< 5	< 0.2	< 0.5	523	144	1	10	< 2	19	2.59	2	161	40	< 0.5	< 2	2.19	13	19	3.24	< 10
1440972	25	0.4	< 0.5	2110	168	1	11	8	28	2.31	< 2	182	36	< 0.5	< 2	1.71	11	17	2.58	< 10
1440973	76	1.2	< 0.5	3970	169	2	8	< 2	41	2.11	8	11	31	< 0.5	< 2	2.35	13	15	3.24	< 10
1440974	86	1.7	< 0.5	4070	149	4	11	< 2	42	1.85	5	23	26	< 0.5	< 2	2.50	10	15	2.31	< 10
1440975	40	0.5	< 0.5	1750	166	1	10	< 2	26	2.29	3	135	36	< 0.5	< 2	2.20	11	16	2.70	< 10
1440976	90	1.3	< 0.5	3360	177	< 1	10	6	41	2.21	< 2	13	51	< 0.5	< 2	2.65	11	15	3.03	< 10
1440977	57	0.8	< 0.5	2060	176	11	9	< 2	30	2.49	6	18	24	< 0.5	< 2	2.51	15	15	2.89	< 10
1440978	52	0.6	< 0.5	1630	161	4	10	< 2	31	2.77	8	11	65	< 0.5	< 2	2.34	11	16	2.84	< 10
1440979	45	0.6	< 0.5	1590	154	21	10	< 2	23	1.91	4	18	23	< 0.5	< 2	2.47	27	13	3.93	< 10
1440980	131	2.2	< 0.5	3840	152	18	10	< 2	37	1.90	2	29	30	< 0.5	< 2	2.35	11	13	2.69	< 10
1440981	360	25.3	< 0.5	3630	392	705	12	44	44	0.36	27	< 10	117	< 0.5	7	1.29	3	21	1.79	< 10
1440982	79	0.9	< 0.5	2020	163	8	11	< 2	25	1.92	3	29	35	< 0.5	< 2	2.53	13	13	3.92	< 10
1440983	51	0.8	< 0.5	1770	145	10	12	3	27	2.05	< 2	< 10	30	< 0.5	< 2	2.00	10	21	3.44	< 10
1440984	< 5	< 0.2	< 0.5	49	595	< 1	13	6	69	1.96	3	< 10	65	< 0.5	< 2	1.64	15	19	3.52	< 10
1440985	42	0.4	< 0.5	1460	148	10	10	9	25	2.40	3	< 10	27	< 0.5	< 2	2.01	22	17	3.61	< 10
1440986	67	0.4	< 0.5	1900	157	7	10	< 2	27	2.23	3	< 10	26	< 0.5	< 2	1.92	23	16	2.98	< 10
1440987	70	0.3	< 0.5	1860	155	7	10	4	27	2.24	6	< 10	25	< 0.5	< 2	1.91	23	17	2.99	< 10
1440988 (missing)																				

Report: A13-08328 (i)		Final Report																	
Report Date: 7/3		Activation Laboratories																	
Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr	
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1	
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	
1440952	< 1	0.34	< 10	1.99	0.134	0.098	1.32	< 2	10	196	0.21	7	< 2	< 10	158	< 10	8	3	
1440953	< 1	0.36	< 10	1.81	0.165	0.097	1.46	< 2	10	277	0.21	2	< 2	< 10	154	< 10	9	3	
1440954	< 1	0.31	< 10	1.83	0.161	0.09	0.88	3	10	230	0.22	< 1	< 2	< 10	174	< 10	8	3	
1440955	< 1	0.29	< 10	1.81	0.166	0.106	1.31	< 2	10	381	0.21	< 1	< 2	< 10	167	< 10	8	3	
1440956	< 1	0.14	< 10	1.43	0.097	0.123	1.55	< 2	6	94	0.21	3	< 2	< 10	143	< 10	7	3	
1440957	< 1	0.14	< 10	1.22	0.122	0.099	1.67	< 2	6	164	0.19	< 1	2	< 10	125	< 10	7	3	
1440958	< 1	0.13	< 10	1.3	0.105	0.098	1.58	2	6	133	0.19	2	3	< 10	131	< 10	7	3	
1440959	< 1	0.2	< 10	1.6	0.076	0.094	1.12	< 2	7	62	0.16	< 1	2	< 10	132	< 10	8	2	
1440960	< 1	0.13	< 10	1.64	0.095	0.097	0.72	< 2	8	58	0.2	< 1	< 2	< 10	143	< 10	9	2	
1440961	2	0.15	< 10	0.1	0.035	0.044	0.56	58	< 1	164	< 0.01	< 1	< 2	< 10	11	< 10	3	1	
1440962	< 1	0.1	< 10	1.52	0.097	0.063	0.46	2	7	65	0.22	2	< 2	< 10	124	< 10	8	2	
1440963	< 1	0.15	< 10	1.8	0.105	0.103	1.04	< 2	8	141	0.19	< 1	< 2	< 10	144	< 10	9	2	
1440964	< 1	0.1	12	1.02	0.122	0.083	< 0.01	3	5	50	0.2	8	< 2	< 10	84	< 10	12	14	
1440965	< 1	0.25	< 10	1.75	0.074	0.106	0.70	3	7	57	0.12	3	< 2	< 10	115	< 10	10	2	
1440966	< 1	0.26	< 10	1.79	0.075	0.109	0.73	< 2	7	58	0.13	2	3	< 10	120	< 10	10	2	
1440967	< 1	0.21	< 10	2	0.082	0.109	0.39	< 2	8	64	0.2	2	< 2	< 10	143	< 10	8	2	
1440968	< 1	0.22	< 10	1.83	0.088	0.107	0.71	3	7	76	0.18	2	< 2	< 10	141	< 10	9	3	
1440969	< 1	0.21	< 10	1.95	0.095	0.114	0.41	< 2	8	79	0.22	4	< 2	< 10	155	< 10	8	3	
1440970	< 1	0.23	< 10	1.77	0.081	0.105	0.61	< 2	8	82	0.2	3	< 2	< 10	131	< 10	9	2	
1440971	< 1	0.15	< 10	1.7	0.103	0.106	0.60	< 2	7	135	0.2	4	< 2	< 10	158	< 10	7	2	
1440972	< 1	0.14	< 10	1.8	0.088	0.102	0.56	2	9	106	0.2	4	< 2	< 10	151	< 10	8	2	
1440973	< 1	0.13	< 10	1.64	0.071	0.102	1.41	2	8	47	0.17	3	< 2	< 10	135	< 10	7	3	
1440974	< 1	0.11	< 10	1.38	0.077	0.108	0.95	< 2	7	41	0.19	7	< 2	< 10	136	< 10	8	3	
1440975	< 1	0.19	< 10	1.63	0.106	0.095	1.02	2	7	73	0.18	< 1	< 2	< 10	133	< 10	8	2	
1440976	< 1	0.15	< 10	1.66	0.069	0.106	1.29	< 2	7	46	0.12	6	< 2	< 10	126	< 10	7	2	
1440977	1	0.15	< 10	1.59	0.072	0.108	1.10	< 2	8	48	0.18	4	< 2	< 10	140	< 10	8	3	
1440978	< 1	0.1	< 10	1.55	0.073	0.106	1.01	3	6	99	0.17	3	< 2	< 10	130	< 10	6	2	
1440979	1	0.1	< 10	1.23	0.077	0.103	2.04	< 2	5	64	0.15	9	< 2	< 10	115	< 10	6	3	
1440980	< 1	0.11	< 10	1.22	0.087	0.113	1.20	< 2	5	62	0.17	3	< 2	< 10	121	< 10	7	3	
1440981	2	0.14	< 10	0.1	0.033	0.044	0.55	57	< 1	162	< 0.01	4	< 2	< 10	11	< 10	3	1	
1440982	< 1	0.1	< 10	1.32	0.076	0.097	1.94	3	5	75	0.16	5	< 2	< 10	120	< 10	7	3	
1440983	< 1	0.12	< 10	1.71	0.08	0.112	1.65	< 2	8	53	0.19	6	< 2	< 10	152	< 10	7	3	
1440984	1	0.1	12	1.1	0.16	0.082	0.01	3	6	58	0.26	10	3	< 10	90	< 10	12	13	
1440985	< 1	0.12	< 10	1.75	0.087	0.112	1.46	2	8	55	0.19	3	< 2	< 10	152	< 10	7	3	
1440986	< 1	0.11	< 10	1.68	0.085	0.114	0.98	< 2	7	51	0.19	7	< 2	< 10	138	< 10	7	2	
1440987	< 1	0.11	< 10	1.68	0.084	0.115	0.99	2	7	52	0.2	6	< 2	< 10	141	< 10	7	2	
1440988 (missing)																			