

**BC Geological Survey
Assessment Report
37516**



**Assessment Report
Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Drilling, Geological, Geochemical and Geophysical Survey **TOTAL COST:** \$1,514,851

AUTHOR(S): Michael Galicki, Elena Musienko, Roy E. Greig

SIGNATURE(S): _____

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-13-286

YEAR OF WORK: 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5691293, March 28, 2018

PROPERTY NAME: JOY

CLAIM NAME(S) (on which the work was done): 522028, 522029, 522030, 522031, 522032, 522033, 522038, 522039, 522040, 522043
522048, 522118, 522119, 555589, 555590, 555595, 555608, 555609, 555613, 555620, 555622, 1043004, 1052971

COMMODITIES SOUGHT: Copper, Molybdenum, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094E 024,042,063,210,111,293,240,241,242,248,250,252

MINING DIVISION: Omineca

NTS/BCGS: NTS 094E/02,07; BCGS 094E.026,027,036,037

LATITUDE: 57 ° 17 ' " **LONGITUDE:** 126 ° 45 ' " (at centre of work)

OWNER(S):

1) Amarc Resources Ltd. 2)

MAILING ADDRESS:

15th floor - 1040 West Georgia

Vancouver, BC, V6E 4H1

OPERATOR(S) [who paid for the work]:

1) Amarc Resources Ltd. 2)

MAILING ADDRESS:

15th floor - 1040 West Georgia

Vancouver, BC, V6E 4H1

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

Copper, gold, molybdenum, Toodoggone District, porphyry, epithermal, Toodoggone Formation, Jock Creek Pluton,

Geigerich Pluton, Black Lake Intrusive Suite, BLIS, Black Fault, advanced argillic alteration

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 9747, 17457, 18161, 19998, 22873, 27429,
27634, 27790, 36399

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	1:20,000, 50km^2	522028, 522029, 522030, 522031, 522032	~\$20,000
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization	49	522039, 522043, 522031, 522040, 522041	\$800,000
Radiometric			
Seismic			
Other			
Airborne	470	522028, 522029, 522030, 522031, 522032	~\$35,000
GEOCHEMICAL (number of samples analysed for...)			
Soil	638		~\$45,000
Silt			
Rock	21		~\$5,000
Other			
DRILLING (total metres; number of holes, size)			
Core	1527	522028, 522030	~\$609,851
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
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:	\$1,514,851

Assessment Report on
Geological, Geophysical and Geochemical Surveys, and Diamond Drilling
Performed on the JOY Project
Located in the
Omineca Mining Division
NTS: 094E/02,07
BCGS: 094E.026,027,036,037

Work program centred at approximately:
6,351,000 m N and 636,400 m E
UTM NAD 83, Zone 9
57°17'N Latitude, 126°44' W Longitude

Work Done on Tenure Numbers:

**522028, 522029, 522030, 522031, 522032, 522033, 522038, 522039, 522040, 522043, 522048,
522118, 522119, 555589, 555590, 555595, 555608, 555609, 555613, 555620, 555622, 1043004,
1052971**

Owner & Operator: Amarc Resources Ltd.

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Roy E. Greig, B.Sc.

April 23, 2018

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1. Summary

The 2017 exploration program completed by Amarc Resources Ltd. (“Amarc”) on the 471 km² JOY Project, located 20 km north of the Kemess porphyry Au-Cu deposits, identified multiple prospective targets with high potential for porphyry Au-Cu deposit discoveries within the Kemess Toodoggone porphyry Au-Cu district.

The 2017 programs on the JOY claims included 50 km² of geological mapping, collection of 638 soil geochemical samples, completion of 49 line-km of ground Induced Polarization (“IP”) and 470 line-km of airborne geophysical surveys along with the drilling of 1,527 m in three drill holes.

The three exploration holes (JY17001, JY17002 and JY17003) returned strongly anomalous results in gold and zinc over significant intervals such as 88.32m of 5573.5 ppm Zn from 384.58 m to 472.9 m including 15,789.4 ppm Zn and 0.167 g/t Au over 5.6m from 467.3 m to 472.9 m in hole JY17003. The drill holes intersected significant intervals of strong phyllitic and propylitic porphyry style alteration, which are typically above or adjacent to mineralized porphyry centres. The geological mapping of the drill target area and surroundings seems to suggest the observed alteration is a high level signature of buried porphyry Au-Cu systems nearby.

Several open-ended soil geochemical and IP chargeability anomalies were identified to the north of the 2017 drilling. These anomalies have porphyry deposit-scale dimensions and are underlain by the prospective Takla volcanic rocks, which are one of the hosts of the Kemess porphyry Au-Cu deposits. Amarc’s high resolution 2017 regional aeromagnetic survey identified several prospective magnetic high targets.

2. Introduction

This report documents the results of the 2017 exploration program carried out by Amarc on the JOY Project during the 2017 summer field season in the Kemess Toodoggone porphyry Au-Cu district of North Central British Columbia ("B.C."). The JOY Project is located adjacent to the north of Centerra's porphyry copper-gold Kemess East project and Kemess Underground development project. During the latter part of the 2017 field season Amarc acquired the PINE property, that is adjacent to the JOY project claims to the north and Centerra's tenure to south, and which includes the PINE porphyry Au-Cu deposit, from Gold Fields Toodoggone Exploration Corporation and Cascadero Copper Corporation. Furthermore, Amarc extended the JOY Project to the east by staking additional claims in July 2017. The Pine property and the stacked claims are now included as part of the JOY Project.



Figure 2-1: Close up view of the drill area (looking northwest), drill hole JY17001 pad is the lower right corner as indicated by the arrow.

3. Summary of the 2017 JOY exploration program

The 2017 JOY exploration program was carried out between July 3rd and September 13th, 2017, and included geophysical, geological, geochemical surveys and core drilling. Table 3.1 summarizes the completed surveys on the JOY property in 2017. The results of the surveys are discussed in chapter 10.

Table 3.1 Summary of the 2017 JOY exploration program

Survey	
Core Drilling	1,527 m of NQ drilling in 3 holes
IP Geophysical Survey	49 line-km, 200 and 400m line spacing with 50m stations
Airborne Magnetic Survey	470 line-km, 100m flight line spacing, covering 73 km ²
Geochemical Soil Survey	638 samples over 64-line km, 100m spacing
Mapping and Prospecting Survey	50 km ² , 1:20.000 scale

4. Location and Access

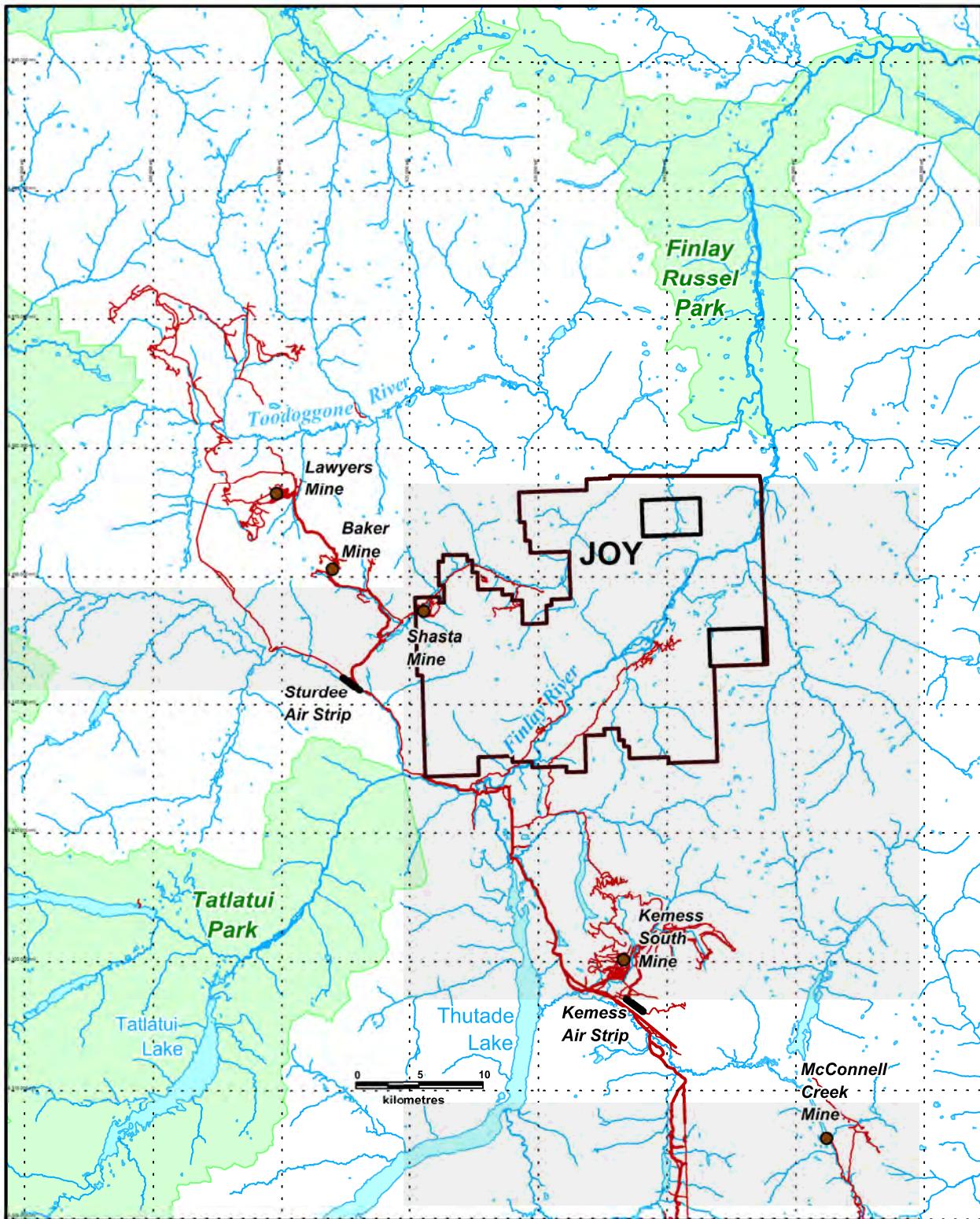
The JOY Project is located in the Omineca Mining Division. The centre of the claim block is approximately 280 km due north of Smithers, in the Toodoggone District of north-central BC. The centre of the property is near coordinates UTM NAD 83, Zone 9, at 6,351,000 m N and 636,400 m E. Parts of the property are accessible by resource roads from north of the Kemess Mine. JOY is an approximate 10 minute helicopter ride from the Kemess Mine, which is located 20 km due south of JOY. The Kemess mine site is an approximate 10 hour drive from Prince George. An electrical transmission line along the Omineca Resource Road services the Kemess mine site and its 400 person camp.

5. Physiography and Climate

Topography on the JOY Project is moderate to steep, except in the extreme eastern and southern sectors where the claims cover gentle terrain around the Finlay River and its tributaries. Several cirques and tarns are present at higher elevations in the central portion of the claims. Elevations range from about 1,020 m ASL along the Finlay River to 2,120 m ASL in the northwestern corner of the claims. Most peaks are just under 2,000 m ASL. Approximately 40% of the property is above tree line. Thick stands of alpine fir occur below tree line on steeper slopes, and a mix of Lodgepole pine and spruce is present at lower elevations.

There are no active weather stations within 180 km of the JOY claims. The closest station, Muncho Lake, is 185 km north-northeast of the property. At Muncho Lake, mean daily temperatures for July and January are 13.9°C and -21°C, respectively. Summer and winter extremes of 34°C and -50.4°C, respectively, have been recorded. Average annual rainfall of 32

cm falls primarily between May and October. Average annual snowfall of 173 cm falls primarily between October and March.



LEGEND

- Claim boundary
- Primary road (gravel)
- Secondary road
- Past producing mine



HDI AMARC

Fig 5-1 JOY Property Location

NTS: 94E/2.7	UTM NAD83, Zone 9
Date: March 28, 2018	Scale: 1 : 160,000
JOY_ClaimMap_Mar2018.wor	Plotted by: JZ, PB

6. Claims

The JOY Project at the time of field activities comprised 28 contiguous mineral claims in the Omineca Mining Division which totalled approximately 47,139.9 hectares or 471.4 km² (Table 6.1 and Figure 6-1). All claims are held by Amarc. The work program described in this report was conducted on 23 claims as indicated in the “Work” column of table 6.1.

The work program was carried out between July 3rd and September 13th, 2017. Claims 1052970, 1052971, 1053212, 1053214, 1053215, 1053217, 1053218, 1053445, 1053446, 1053451, 1053452, 1053453, 1053454 were staked at the beginning of the work program (after July 3rd, 2017) and for the purpose of registering the work performed on these claims with Mineral Titles Online, the “Work Start Date” was moved forward to July 27th, 2017.

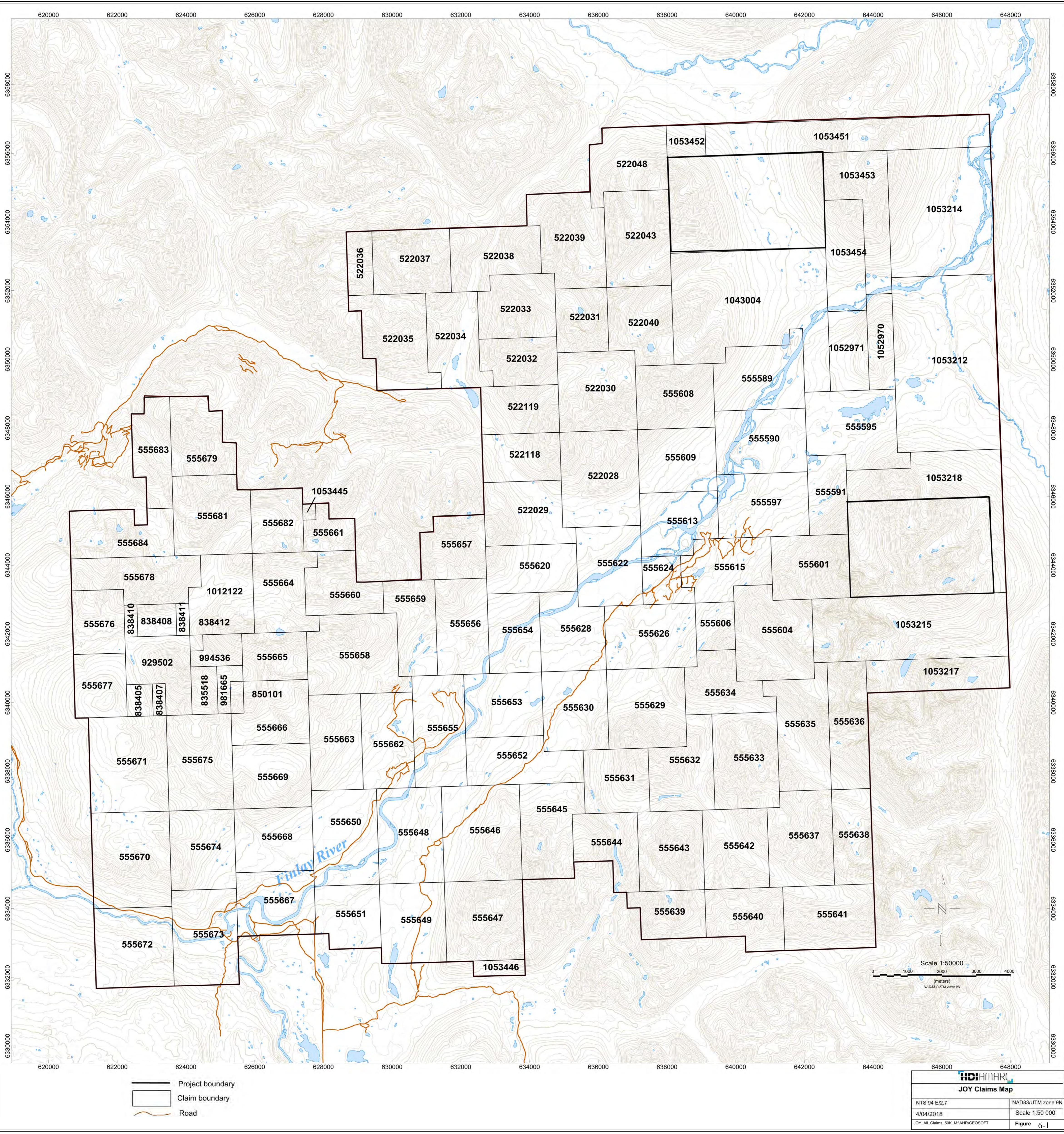
Table 6.1: JOY property mineral claims

Title Number ID	Claim Name	Work	Issue Date	Good To Date	Area In Hectares
522028		x	11/7/2005	5/30/2022	630.416
522029		x	11/7/2005	5/30/2022	437.9
522030		x	11/7/2005	5/30/2022	525.013
522031		x	11/7/2005	5/30/2022	279.869
522032		x	11/7/2005	5/30/2022	297.449
522033		x	11/7/2005	5/30/2022	402.281
522034			11/7/2005	5/30/2022	419.864
522035			11/7/2005	5/30/2022	524.832
522036			11/7/2005	5/30/2022	139.878
522037			11/7/2005	5/30/2022	419.635
522038		x	11/7/2005	5/30/2022	419.619
522039		x	11/7/2005	5/30/2022	524.458
522040		x	11/7/2005	5/30/2022	402.316
522043		x	11/7/2005	5/30/2022	524.446
522048		x	11/7/2005	5/30/2022	419.33
522118		x	11/8/2005	5/30/2022	315.16
522119		x	11/8/2005	5/30/2022	315.052
555589		x	4/3/2007	5/30/2022	489.9728
555590		x	4/3/2007	5/30/2022	490.1985
555591			4/3/2007	5/30/2022	262.7086
555595		x	4/3/2007	5/30/2022	577.6975
555597			4/3/2007	5/30/2022	490.419
555601			4/3/2007	5/30/2022	420.5456
555604			4/3/2007	5/30/2022	578.5232
555606			4/3/2007	5/30/2022	157.7668
555608		x	4/3/2007	5/30/2022	420.0263

Title Number ID	Claim Name	Work	Issue Date	Good To Date	Area In Hectares
555609		x	4/3/2007	5/30/2022	420.2203
555613		x	4/3/2007	5/30/2022	385.37
555615			4/3/2007	5/30/2022	403.0156
555620		x	4/3/2007	5/30/2022	367.9781
555622		x	4/3/2007	5/30/2022	438.0578
555624			4/3/2007	5/30/2022	175.2417
555626			4/3/2007	5/30/2022	490.8638
555628			4/3/2007	5/30/2022	403.2113
555629			4/3/2007	5/30/2022	526.1896
555630			4/3/2007	5/30/2022	438.5097
555631			4/3/2007	5/30/2022	350.9675
555632			4/3/2007	5/30/2022	421.1336
555633			4/3/2007	5/30/2022	526.3862
555634			4/3/2007	5/30/2022	350.7431
555635			4/3/2007	5/30/2022	526.2845
555636			4/3/2007	5/30/2022	421.012
555637			4/3/2007	5/30/2022	509.132
555638			4/3/2007	5/30/2022	316.0077
555639			4/3/2007	5/30/2022	281.0361
555640			4/3/2007	5/30/2022	368.8753
555641			4/3/2007	5/30/2022	491.844
555642			4/3/2007	5/30/2022	438.9262
555643			4/3/2007	5/30/2022	438.9252
555644			4/3/2007	5/30/2022	333.5691
555645			4/3/2007	5/30/2022	456.4104
555646			4/3/2007	5/30/2022	631.9524
555647			4/3/2007	5/30/2022	526.9501
555648			4/3/2007	5/30/2022	526.6333
555649			4/3/2007	5/30/2022	439.1316
555650			4/3/2007	5/30/2022	526.6292
555651			4/3/2007	5/30/2022	333.7164
555652			4/3/2007	5/30/2022	421.1116
555653			4/3/2007	5/30/2022	420.9462
555654			4/3/2007	5/30/2022	350.6121
555655			4/3/2007	5/30/2022	491.1824
555656			4/3/2007	5/30/2022	420.7084
555657			4/3/2007	5/30/2022	332.8773
555658			4/3/2007	5/30/2022	613.656
555659			4/3/2007	5/30/2022	350.5887
555660			4/3/2007	5/30/2022	332.965

Title Number ID	Claim Name	Work	Issue Date	Good To Date	Area In Hectares
555661			4/3/2007	5/30/2022	157.6587
555662			4/3/2007	5/30/2022	421.0461
555663			4/3/2007	5/30/2022	421.0403
555664			4/3/2007	5/30/2022	385.5414
555665			4/3/2007	5/30/2022	262.9873
555666			4/3/2007	5/30/2022	385.8696
555667			4/3/2007	5/30/2022	421.4846
555668			4/3/2007	5/30/2022	421.2951
555669			4/3/2007	5/30/2022	421.1196
555670			4/3/2007	5/30/2022	632.0193
555671			4/3/2007	5/30/2022	631.6132
555672			4/3/2007	5/30/2022	527.0077
555673			4/3/2007	5/30/2022	526.9751
555674			4/3/2007	5/30/2022	438.8753
555675			4/3/2007	5/30/2022	526.346
555676			4/3/2007	5/30/2022	280.4413
555677			4/3/2007	5/30/2022	280.5653
555678			4/3/2007	5/30/2022	438.0612
555679			4/3/2007	5/30/2022	367.6353
555681			4/3/2007	5/30/2022	507.9438
555682			4/3/2007	5/30/2022	280.2519
555683			4/3/2007	5/30/2022	315.1345
555684			4/3/2007	5/30/2022	402.8929
835518	BLACK LAKE		10/9/2010	5/30/2022	105.2189
838405	TDG01		11/16/2010	5/30/2022	70.1493
838407	TDG02		11/16/2010	5/30/2022	35.0748
838408	LEGHORN		11/16/2010	5/30/2022	105.1662
838410	TDG03		11/16/2010	5/30/2022	35.0554
838411	LH		11/16/2010	5/30/2022	35.0555
838412	TDG04		11/16/2010	5/30/2022	17.5307
850101			3/30/2011	5/30/2022	35.0748
929502	STARS		11/17/2011	5/30/2022	333.1379
981665			4/22/2012	5/30/2022	70.1442
994536			6/6/2012	5/30/2022	122.7225
1012122			8/19/2012	5/30/2022	403.0775
1043004	WFM	x	3/24/2016	5/30/2022	1416.7034
1052970			7/5/2017	5/30/2022	209.946
1052971		x	7/5/2017	5/30/2022	262.4456
1053212			7/18/2017	5/30/2022	1539.9027

Title Number ID	Claim Name	Work	Issue Date	Good To Date	Area In Hectares
1053214			7/18/2017	5/30/2022	1118.7213
1053215			7/18/2017	5/30/2022	1051.8369
1053217			7/18/2017	5/30/2022	385.8045
1053218			7/18/2017	5/30/2022	648.0091
1053445	FS1		7/27/2017	5/30/2022	17.5149
1053446	FS2		7/27/2017	5/30/2022	70.2837
1053451			7/18/2017	5/30/2022	768.6613
1053452			7/18/2017	5/30/2022	104.818
1053453			7/18/2017	5/30/2022	471.9166
1053454			7/18/2017	5/30/2022	367.1713



7. Exploration History

Gold was first discovered in the Toodoggone mining district in placer deposits in 1925 (Diakow, et al., 1993). Base metal prospecting was conducted in the 1930's. Porphyry copper exploration in the mid 1960's led to the discovery of the Kemess North porphyry Au-Cu deposit in 1967, and the subsequent discovery of epithermal lode gold at Chappelle (later Baker Mine) in 1968, Shasta in 1972 and Lawyers in 1973. Production history from past producers in closest proximity to the JOY claims is presented in Table 7.1.

Table 7.1: Past Producing Mines Proximal to JOY Claims

Mine*	Au (oz)	Ag (oz)	Cu (lbs)	Production Years
Baker	41,281	765,592	28,828	1981-1983; 1996-1997
Lawyers	173,678	3,638,954		1989-1992
Shasta	19,381	1,061,577		1989-1991; 2000
Kemess South	2,954,763	156,606	783,633,852	1998-2010
TOTALS	3,189,103	5,622,729	783,662,680	

*All data on recovered metals and production years from MINFILE.

Historical exploration on the original JOY claims was predominantly reconnaissance scale soil and rock sampling followed by small localized soil grids with close sample spacing. No drilling was completed. Trenching in 1988 failed to reach bedrock. A summary of recorded historical work encountered in assessment reports for the original JOY claims is presented in Table 7.2.

Table 7.2: Exploration History on the JOY claims

ARIS	Work Year	Owner	Operator	Claims /Zone	Work Done	Report Conclusions
1888	1968	Cominco Ltd.	Cominco Ltd.	PIL	geology	Targeted Cu mineralization in intrusive rocks and their contacts along Jock Creek, but encountered only very weak, discontinuous mineralization.
2035	1969	Kennco Explorations , (Western) Limited	Kennco Explorations , (Western) Limited	PINE	soils	Soil survey in Finlay River valley could not be located, although ARIS 22873 reports that their WEST grid intended to cover the same ground as the Cominco survey. This survey encountered small, erratic Cu, Mo and Zn anomalies; no large, well-defined anomalies for any metals present. Unusually high background Zn.
9747	1980, 81	Serem Ltd.	Serem Ltd.	NUB MTN	soils, silts, rocks, geology	Quartz vein stockworks common in both intrusive and volcanic rocks, and may contain up to 10% combined pyrite,

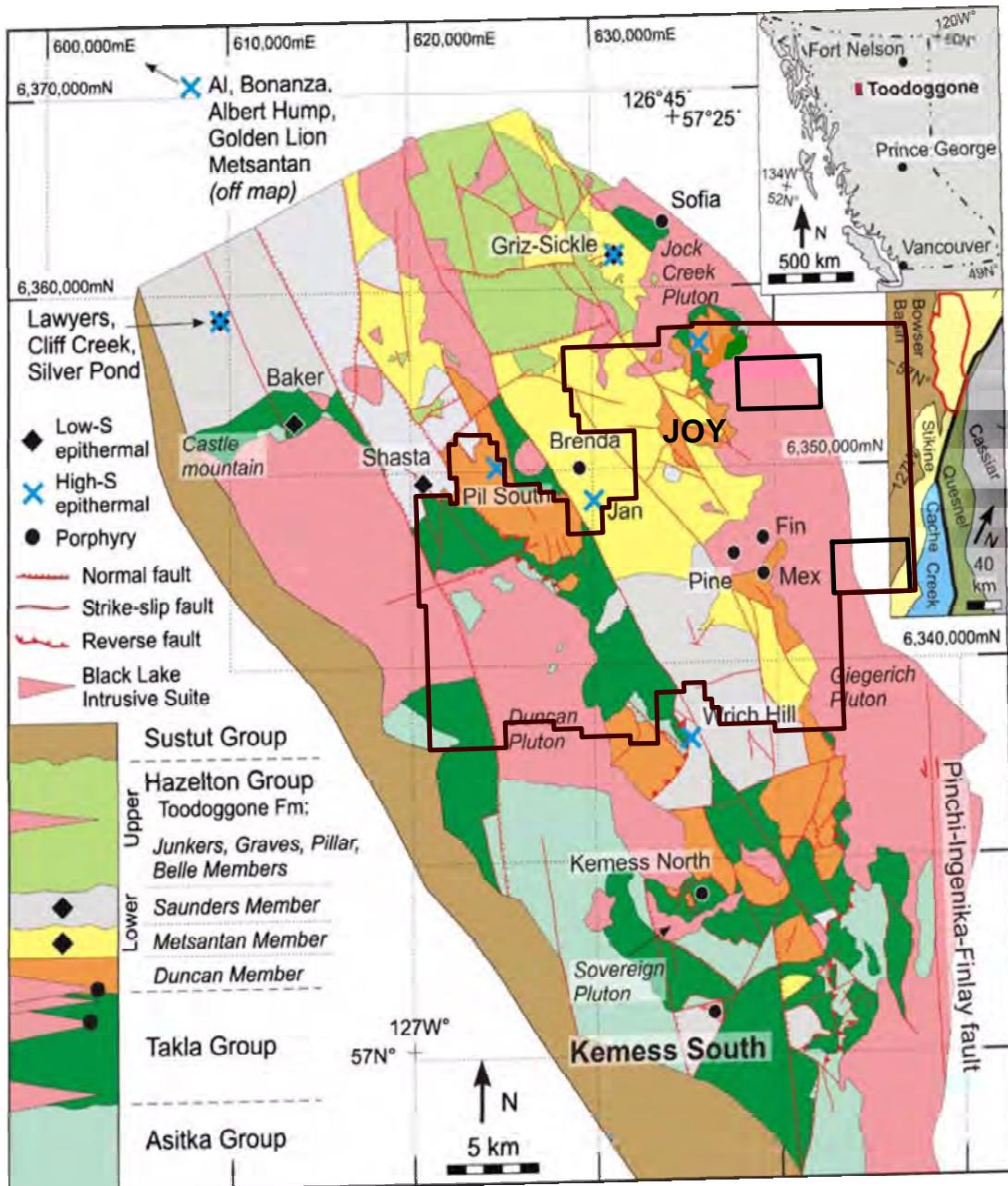
ARIS	Work Year	Owner	Operator	Claims /Zone	Work Done	Report Conclusions
						chalcopyrite, galena and sphalerite. Veining is too sparse and too low grade to be of economic value.
17451	1987	John Mirko	Skylark Resources Ltd.	PIL, LAR	soils, rocks, geology	Reconnaissance prospecting yielded a few elevated/ anomalous rock and soil samples. The Black Cu-Zn showing (MINFILE 094E 042) found to be localized and discontinuous. Only a portion of this work occurs on the original JOY claims.
18161	1988	Toodoggone Gold Inc.	Tecucomp Geological Inc.	FINE (NUB)	soils, silts, rocks, trenching	One km long shear zone with scattered Au,Ag,Zn,Cu, Ba in soil and rocks (NUB4, MINFILE 094E 210), but only small showings with little immediate economic potential elsewhere. Trenching at site of 1150 ppb Au in soil sample did not reach bedrock.
19998	1989	Toodoggone Gold Inc.	White Geophysical	FINE (NUB)	soils, rocks, geology	Grid extensions and detail sampling around 1988 work areas. Additional trenching with backhoe failed to reach bedrock, but rock chips suggest a sulphidic silicified shear zone in volcanics.
22873	1992	Romulus Resources Ltd.	Romulus Resources Ltd.	PINE	soils, geology	WEST soil grid intended to see if anomalous Au soils are present in the area of Kennco's 1969 grid where anomalous Cu and Mo were present. The Northwest Grid (NWB, MINFILE 094E 241) intended to test the large gossan. Strong Au-Mo anomaly in Northwest Grid underlain by intensely kaolinized, somewhat porous brecciated rocks. Porphyry-style zone suggested outward from this showing, believed to represent a high-level pipe-like body emanating from a buried porphyry Au-Cu-Mo system.
27429	2003	Stealth Minerals Limited & Electrum Resource Corp.	Stealth Minerals Limited	NWB,B G, NUB West	soils, silts, rocks, geology	Primarily prospecting and rock sampling in the JOY claim area. A 1 x 5-6 km advanced argillic zone associated with strong NNW regional structures is present between NWB and Nub

ARIS	Work Year	Owner	Operator	Claims /Zone	Work Done	Report Conclusions
						West quartz-alunite zone to north. Concluded that the area hosts potential for an intermediate sulphidation epithermal to transitional porphyry Cu-Au system in proximity to argillic to advanced argillic alteration zones.
27634	2004	Stealth Minerals Limited	Stealth Minerals Limited	NUB	soils, rocks, geology	Contour soils and rock sampling over a 90 km ² area. Property hosts large-scale epithermal targets probably driven by large-scale monzonite-hosted Cu-Au porphyry systems at depth.
27790	2004	Stealth Minerals Limited	Stealth Minerals Limited	BG	soils, rocks, geology	Soil and rock sampling on claims adjacent to those covered in ARIS 27634, above. Operator's attention largely focused on ground north of JOY claims, but 287 soils and 58 rocks from this report were added to the current compilation. The results of a 1:20,000 scale geological mapping program were incorporated into BCGM 2006-6.
36399	2016	Amarc Resources Ltd.	Amarc Resources Ltd.	JOY	soils	Better defined and expanded multi-element soil anomalies.
	2017	Amarc Resources Ltd.	Amarc Resources Ltd.	JOY	drilling, mapping, IP, soils, aeromagnetic survey	This report.

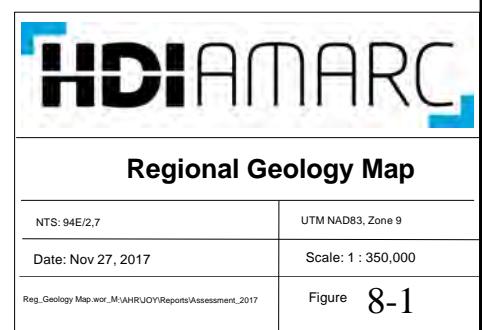
8. Regional Geology

The Toodoggone district comprises Upper Triassic to Lower Jurassic Hazelton Group Toodoggone Formation volcanic and sedimentary rocks, which unconformably overlie submarine island-arc volcanic and sedimentary rocks of the Lower Permian Asitka Group and Middle Triassic Takla Group, some of which are intruded by Upper Triassic to Lower Jurassic plutons and dykes of the Black Lake Intrusive Suite, or BLIS (Duuring, et al., 2009(1)). The plutons are exposed along the margins of the Toodoggone volcanic-sedimentary depression but also occur internally within the depression as elongate, northwest to northeast - trending plutons (Figure 8-1). These intrusions are temporally and probably genetically related to rocks of the Toodoggone Formation. A consequence of their shared tectonic histories is that porphyry and epithermal deposits, which are frequently located in the same district are approximately the same age (Arribas, et al., 1995). In the Toodoggone District, younger cover rocks have resulted in the preservation of complete mineralized and altered sequences ranging from the causative Cu- Au porphyry systems up through undeformed stratigraphy which hosts the upwardly evolving low to high sulphidation epithermal systems with their attendant clay-rich alteration caps still intact. High sulphidation epithermal Au- Ag deposits represent the tops or sides of porphyry Cu- Au systems (Rowins, 2012; Sillitoe, et al., 2016).

Within the Toodoggone district, several proximal porphyry and epithermal deposits have mineralization ages that are broadly coeval with early Jurassic calc-alkaline plutonism and volcanism (Diakow, et al. 1991). Although plutonism occurred episodically from ca. 218 to 191 Ma, the largest porphyry Cu-Au±Mo systems known formed from ca. 202 to 197 Ma, with some mineralization also occurring from ca. 197-194. Porphyry mineralization is hosted by small-volume (< 1 km³), single phase, porphyritic igneous stocks or dykes that have high potassium calc-alkaline compositions and are comparable with volcanic arc granites. All porphyry systems are spatially restricted to exposed Asitka and Takla Group basement rocks, and the lowest members of the Hazelton Group (i.e., the Duncan and Metsantan members of the Toodoggone Formation). The basement rocks to intrusions are best exposed in the southern half of the district, where rates of erosion and uplift have resulted in their preferential exposure. In contrast, low and high- sulphidation epithermal systems are more numerous in the northern half of the district where overlying Hazelton Group rocks dominate exposures (Duuring, et al., 2009(1)). However, cogenetic porphyry systems also exist in the northern areas where they occur in Lower Toodoggone Formation Duncan and Metsantan members. High-sulphidation epithermal systems formed at ca. 201 to 182 Ma, whereas low- sulphidation systems were active at ca. 192 to 162 Ma.



From: Duuring, P., et al., 2009. Examining potential genetic links between Jurassic porphyry Cu-Au+Mo and epithermal Au+Ag mineralization in the Toodoggone district of North-Central British Columbia, Canada; Mineralium Deposita, published online January 16, 2009; 34 pages.

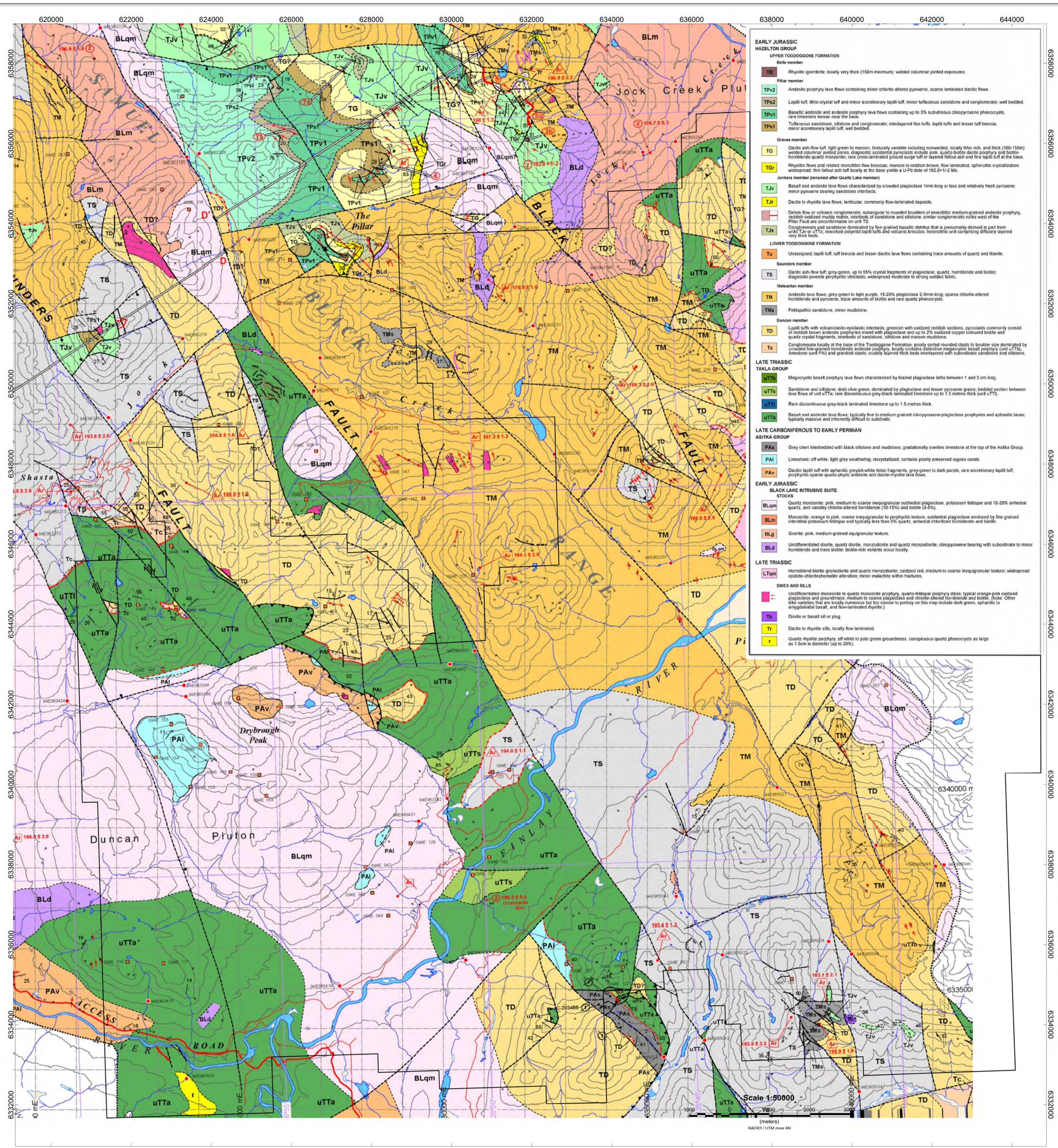


9. Property Geology

The geology of the JOY claims is shown on BC Geoscience Map 2006-6 (Figure 9-1). Late Triassic Giegerich pluton quartz monzonite and Early Jurassic Jock Creek pluton hornblende phryic monzonite of the BLIS intrude Asitka, Takla and Hazelton Group Toodoggone Formation Duncan and Metsantan members along the eastern side of the property. These plutons are projected to shallowly underlie the central-western part of the property where small stocks and dykes intrude the Duncan and Metsantan members. In the northeast, erosion has exposed Takla Group basalt and andesite flows and unconformably overlying Duncan member volcaniclastic-epiclastic rocks intruded by the Jock Creek Pluton monzonite.

The northwest-trending Black Fault and related splays bisect the centre of the property. These faults and other northwesterly, northerly and northeasterly striking faults form horst and graben fault-bounded blocks. These extensional structures host swarms of parallel monzonite, basalt and younger latite dykes and have been active conduits over time. The monzonite dykes and dyke swarms are locally proximal to and associated with copper-gold mineralization as at the Brenda porphyry deposit. Similar mineralized dykes occur in mineralized Takla volcanic rocks that lie above the Kemess North stock and are host to the Kemess Underground and Kemess East deposits. Numerous large gossans mark the location of extensive hydrothermal alteration zones, such as at the DT-1/NWB and NUB West occurrences.

Gold-copper mineralization at PINE is hosted in potassically altered (K-feldspar + magnetite), porphyritic quartz monzonite (Dickinson, 2006). Locally underlying the quartz monzonite is a phase of weakly mineralized granodiorite. Three generations of monzonite-syenite dykes and two generations of "mafic" dykes cut the mineralized quartz monzonite. Importantly, the oldest monzonite and diorite dykes are locally mineralized indicating that Au-Cu mineralization is syn-magmatic. The host quartz monzonite is 197.6 ± 0.5 Ma, an age similar to that of other proximal felsic intrusions of the Black Lake suite, but slightly younger than the intrusions that host the Kemess South (199.6 ± 0.6 Ma) and Kemess North (202.7 ± 1.9 Ma) Au-Cu deposits. The oldest monzonite dykes at Pine are 193.8 ± 0.5 Ma thereby constraining the age of the mineralization event to between this age and 197.6 ± 0.5 Ma, the age of the host quartz monzonite intrusion. Ash flow tuff of the Toodoggone Formation hosts all the plutonic rocks associated with the Pine deposit



10. 2017 JOY Exploration Programs

10.1 Diamond Drilling Program

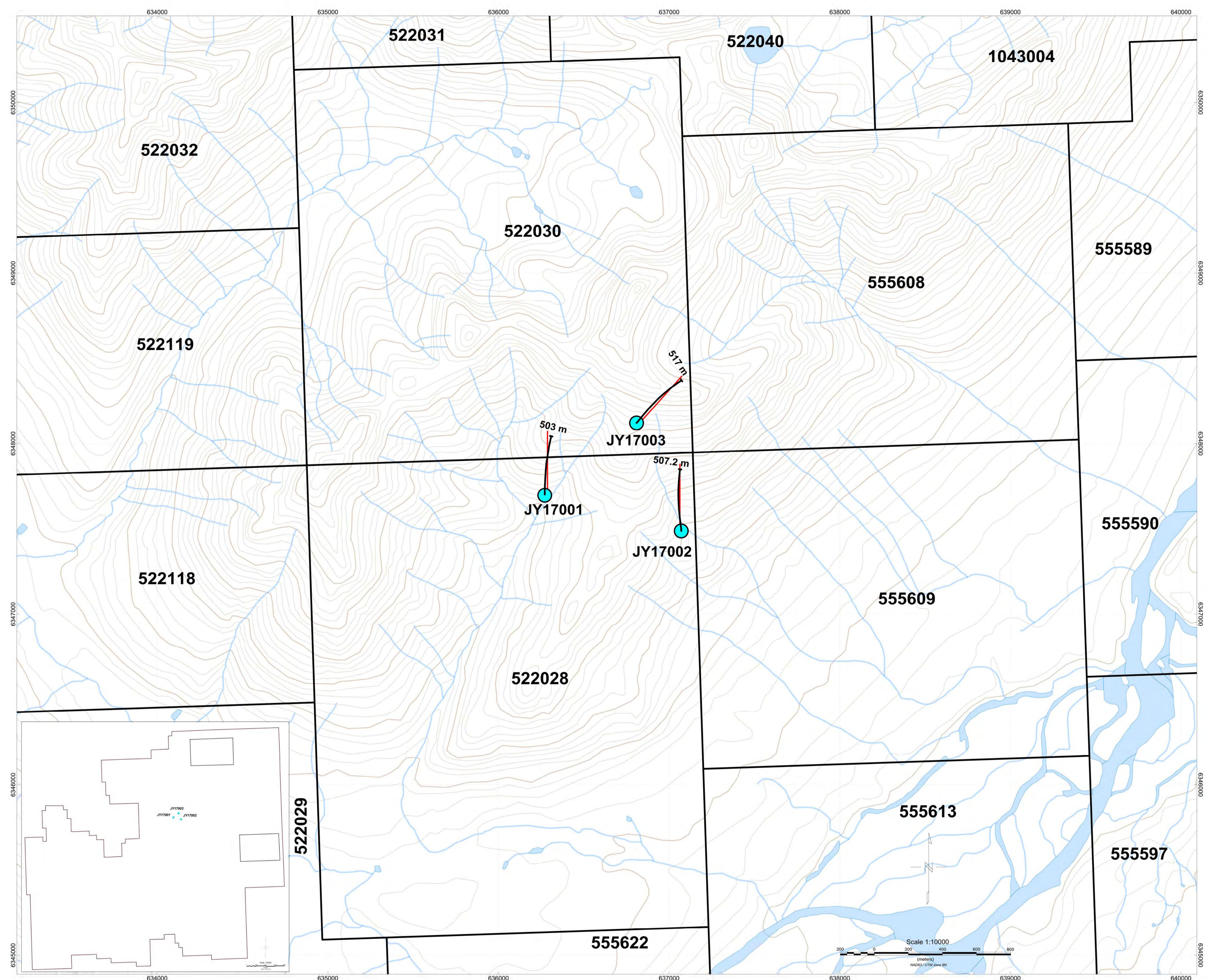
Amarc completed 1,527.2 m of NQ drilling in three diamond drill holes at JOY between August 13th and September 4th, 2017 (Table 10.1). The drill hole geology, alteration, mineralization and results are discussed in chapters 10.1 for each drill hole. Drill hole locations are noted in figure 10-1. In addition, tables with the drill hole geology logs, drill hole sample logs, assay certificates and cross-sections are provided in Appendix A through D.

Table 10.1: 2017 JOY drill holes

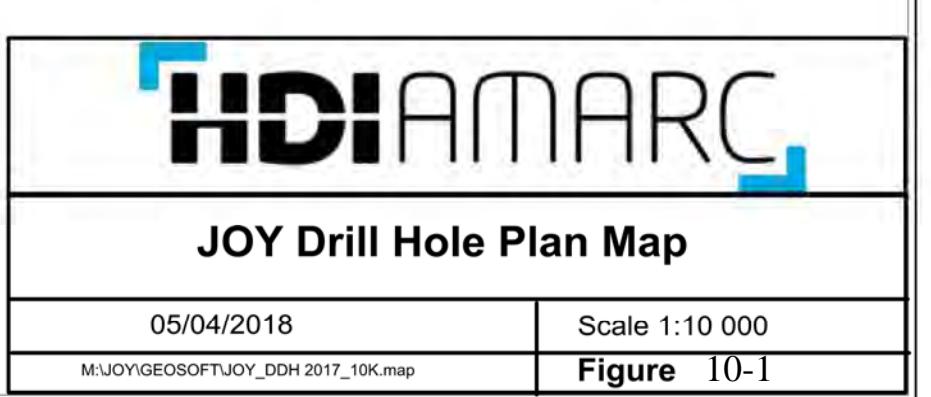
Drill Hole	Azimuth	Dip	Total depth (m)	Easting (NAD83)	Northing (NAD83)	Elevation (m)
JY17001	000	-45	503	636271	6347697	1421
JY17002	000	-45	507.2	637071	6347488	1423
JY17003	42	-45	517	636809	6348121	1710

10.1.1 Drill hole JY17001

Lithology: The top of the hole JY17001 at 14.00-149.00 m represents a volcanic pile characterized by: (a) a maroon coloured andesite flows (IVF1) with up to 40% feldspar phenocrysts (mostly plagioclase and possibly minor pink/orange alkali feldspar), ranging in size from 1-2 mm and 6-10 mm, and 5-40% mafic phenocrysts (hornblende>biotite>augite?) that range in size from <1-4 mm, set in a dark red to maroon aphanitic groundmass; and (b) grey interbedded intermediate ash tuff with characteristic broken feldspar (plagioclase) crystals (IVC1). The abundance of phenocrysts in the flows is highly variable. This section of drill core is extremely broken with gouge intensities of up to 20%. Core recoveries (79.3%) were better than might be anticipated for these ground condition.



- Diamond Drill Hole with Trace
- Cross section line
- Claim Boundary
- Project Boundary



From 149.00-380.34m JY17001 cored a sequence of intermediate porphyritic dykes (IPD1) and intermediate porphyry dykes (IDP1) that intrude the volcanic pile (IVC1) described above. This sequence of intrusions likely represents a system of feeder dykes that is genetically linked to the volcanic extrusive rocks at the top of the hole. IPD1 is characterized by a maroon to tan coloured fine to aphanitic groundmass hosting 25-35 % plagioclase (2-5 mm, locally glomerocrystic), and up to 15 % ferromagnesian phenocrysts (mostly hornblende needles ranging in size from 2-4 mm) that are replaced by epidote-chlorite. In contrast, IDP1 has a higher phenocryst abundance, is finer grained and characterized by an aphanitic, maroon to glassy-grey groundmass hosting 40-50% 1-3 mm plagioclase and up to 15-20% <1-2 mm hornblende. This section is intruded by narrow, dark green to maroon, unaltered feldspar-phyric mafic dykes (MDX1).

Most of the lower half of JY17001 cored non-porphyritic intrusions that range in composition from granodiorite (GDI1) to quartz-monzonite (QMI1). GDI1 is characterized by interlocking: (a) 20-30% 1-30 mm quartz; (b) 55-70% 1-15 mm feldspar; and (c) 10-15% 1-10 mm ferromagnesian minerals, which are for the most part replaced by epidote-chlorite-magnetite; some remnant shapes resemble hornblende and potentially biotite. Locally, GDI1 displays a sub-porphyritic texture with very fine grained to aphanitic groundmass. QMI1 is a fine grained, equigranular quartz-monzonite characterized by interlocking 5-15% 3-5 mm quartz, 10-15% 1-3 mm hornblende and up to 70% 2-6 mm feldspar, predominantly plagioclase. This unit is intruded by a series of fine pinkish aplite dykes and contains inclusions of GDI1.

Alteration and mineralization: The two main alteration types in JY17001 are quartz-pyrite and epidote-chlorite-pyrite (Figure 10-2 and 9-3). The top of the hole is often dominated by quartz-pyrite alteration, which transitions into more epidote-chlorite-pyrite dominated towards the bottom of the hole. Rock strength correlates directly with the type of alteration. At the top of the hole, which is strongly faulted, intervals of quartz-pyrite alteration consist of hard, sharp, angular pieces of rock where as more epidote-chlorite-pyrite altered intervals are fairly soft and can contain significant fault gouge. Varying degrees of hematization/oxidation (?) can be seen throughout the hole where many of the lithologies appear to be red to dark red stained. Rare quartz-magnetite veinlets are locally present in quartz-pyrite altered sections.

Quartz-pyrite alteration is typically characterized by pale grey silicification of the rock mass with addition of disseminated to patchy pyrite and minor replacement of ferromagnesian sites by pyrite. The intensity of quartz-pyrite alteration is often high resulting in poor primary texture preservation. Locally, pyritic quartz-veinlets with hard, sometimes pinkish, envelopes, as well as magnetite pseudomorphs after ferromagnesian minerals are present. Trace chalcopyrite was noted as disseminations associated with quartz-pyrite alteration as well as trace fracture coatings of molybdenite (Figure 10-2).

Epidote-chlorite-pyrite alteration is a later alteration event than quartz-pyrite alteration and characterized by epidote (+piemontite)/chlorite/pyrite pseudomorphs of ferromagnesian sites and some of the finer feldspar, as well as chlorite-epidote±magnetite±pyrite±chalcopyrite veinlets (Figure 10-3). In addition, there might be an albite component to this alteration

assemblage characterized by bone-white to orange hard groundmass alteration. Further, <1-4 mm pyrite patches are common. Intervals of strong epidote-chlorite-pyrite alterations locally have 2-10 mm patches of honey coloured sphalerite rimming galena as well as black sphalerite veinlets.

Summary and results: JY17001 cored a sequence of intermediate volcanic and volcaniclastic rocks that have been intruded by a series of porphyry dykes. A summary of the encountered lithologies in JY17001 are summarized in table 10.2. This rock package is consistent with Metsantan and Duncan members of the Early Jurassic Toodoggone Formation. The hole terminated in granodiorite to quartz-monzonite intrusions, which are interpreted to be part of the Late Triassic Giegerich pluton.

The Au-Mo soil geochemical is only partly explained by the drill results of JY17001. Fine intermediate volcaniclastics at the top of JY17001 at 14-149 m and short intercepts further downhole are most anomalous in Au, however the concentrations of Au in JY17001 (30-50 ppb) are much less than in the overlying soil anomaly (up to 1,000 ppb). IDP1 porphyry dykes are anomalous with respect to Cu (0.1% Cu) and Mo (0.01% Mo) over their entire length. In absence of significant base metal sulphides the overall pyrite abundance of 2.3% only partially explains the IP chargeability anomaly.

The area targeted with JY17001 remains prospective as the main cause of the soil and geophysical anomalies is only partially explained with the results of JY17001. The alteration style and intensity is consistent with proximity to a magmatic-hydrothermal system.



Figure 10-2: JY17001 @ 248.7 m, strong to intense quartz-pyrite altered intermediate dyke porphyry (IDP1) with dark quartz-magnetite veinlets. The 3 m long interval (248-251 m) hosting this sample returned 0.088% Cu, 63 ppb Au, 1.6 ppm Ag, 150 ppm Mo and 140 ppm Zn

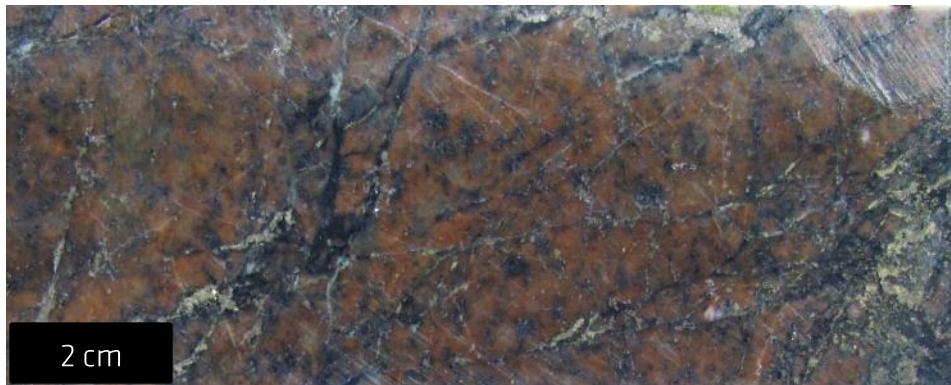


Figure 10-3: JY17001 @ 360.5 m, hematitized, strong to intense epidote-pyrite±dark chlorite (and potentially albite) altered intermediate porphyry dyke (IDP1) with chlorite-magnetite-pyriote±chalcopyrite stringers and patches. The 3 m long interval (359-362 m) hosting this sample yielded 0.182% Cu, 6 ppb Au, 1.9 ppm Ag, 45.5 ppm Mo and 110 ppm Zn.

Table 10.2 JY17001 overview of intercepted lithologies

From (m)	To (m)	Length (m)	Litho code	Comment
0	14.00	14.00	OVB1	Overburden/Casing
14.00	56.00	42.00	IVF1	Feldspar porphyritic andesite flows and interbedded tuffs
56.00	149.00	93.00	IVC1	Fine intermediate volcaniclastics
149.00	160.50	11.50	IDP1	Intermediate porphyritic dyke
160.50	278.30	117.8	IDP1	Intermediate porphyry dyke
278.30	298.25	19.95	IDP1	Intermediate porphyritic dyke
298.25	301.84	3.59	IDP1	Intermediate porphyry dyke
301.84	332.00	30.16	IDP1	Intermediate porphyritic dyke
332.00	344.59	12.59	IVC1IDP1	Fine intermediate volcaniclastics intruded by Intermediate porphyry dyke
344.59	353.78	9.19	IDP1	Intermediate porphyritic dyke
353.78	370.63	16.85	IVC1IDP1	Fine intermediate volcaniclastics intruded by Intermediate porphyry dyke
370.63	375.25	4.62	MDX1	Mafic dykes
375.25	380.34	5.09	IPD1IVC1	Intermediate porphyritic dyke intruding fine intermediate volcaniclastics
380.34	386.37	6.03	GDI1	In-equigranular granodiorite
386.37	407.26	20.89	IDP1	Intermediate porphyritic dyke
407.26	477.82	70.56	GDI1	In-equigranular granodiorite to quartz-monzonite
477.82	487.12	9.30	IDP1MDX1	Intermediate porphyry dyke intruded by mafic dyke
487.12	503.00	15.88	QMI1	Equigranular quartz-monzonite to quartz-monzodiorite

10.1.2 Drill hole JY17002

Lithology: At 21.20-81.48 m JY17003 cored interbedded intermediate ash tuff with characteristic broken feldspar (plagioclase) crystals (IVC1) that were locally intruded by narrow, green to black, weakly feldspar porphyritic, unaltered mafic dykes (MDX1). This section is strongly faulted at 21.2-48.2 m. The remainder of the hole cored interbedded IVC1 and feldspar porphyritic andesite flows and interbedded tuffs (IVF1). IVF1 rocks are characterized by up to 40% (variable, commonly 15-25%) feldspar phenocrysts (mostly plagioclase and possibly minor pink/orange alkali feldspar), ranging in size from 1-2 mm and 6-10 mm, and 5-40% mafic phenocrysts (hornblende>biotite>augite?) that range in size from <1-4 mm, set in a dark red to maroon aphanitic groundmass. IVF1 often contain volcanic xenoliths and the abundance of phenocrysts in the flows is highly variable.

Alteration and Mineralization: Similar to JY17001, in JY17002 the two main alteration types are quartz-pyrite and epidote-chlorite-pyrite. JY17001 is somewhat weakly quartz-pyrite and epidote-chlorite-pyrite altered down to 84.48 m. From 84.48-363.30 m the dominant alteration type is moderate to intense quartz-pyrite. Quartz-pyrite alteration weakens from 363.3 m towards the bottom of JY17002 where epidote-chlorite-pyrite alteration increases in intensity and is the dominant alteration type. Epidote-chlorite-pyrite altered sections are often more magnetic and more reddish in colour.

Quartz-pyrite alteration is typically characterized by pale grey silicification of the rock mass with addition of disseminated to patchy pyrite and replacement of ferromagnesian sites by pyrite. The intensity of quartz-pyrite alteration is somewhat stronger compared to JY17001 and often results with poor primary texture preservation. Pyrite patches can be up to 3 cm in size, likely replacing mafic rich xenoliths in addition to ferromagnesian minerals. Pyrite abundance in JY17002 is much higher than in JY17001 (5.6% vs 2.3% calculated pyrite) and is mostly associated with the broader distribution and higher intensity of quartz-pyrite alteration. Locally, fine disseminated sphalerite can be present in strongly quartz-pyrite altered rocks.

Post-dating quartz-pyrite alteration is epidote-chlorite-pyrite alteration, which is characterized by epidote/chlorite/pyrite/magnetite pseudomorphs of ferromagnesian sites and often pistachio green staining of feldspars, as well as chlorite-magnetite-epidote±pyrite veinlets. Compared to JY17001, the epidote and magnetite abundance is more variable with locally strong chlorite-magnetite with minor epidote alteration. Fine disseminated to patchy black sphalerite is often associated with the envelopes of epidote-rich veinlets. Locally, there might be an albite component to this alteration assemblage characterized by bone-white to orange hard groundmass alteration.

Post-dating quartz-pyrite and epidote-chlorite-pyrite alteration is minor quartz-sericite-pyrite alteration that is characterized by pyritic quartz veinlets with sericitic and pyritic envelopes. Pyritic quartz veinlets are in turn cut by sporadic (Fe-) carbonate veinlets.

Summary and results: JY17002 cored a similar sequence of intermediate volcanic and volcaniclastic rocks of the Early Jurassic Toodoggone Formation as JY17001. However, JY17002 did not intersect the porphyritic feeder dykes to the Toodoggone Formation or the underlying batholith. Locally, sections of the strongly quartz-pyrite altered volcanics in JY17002, where the primary textures are obscured, share some similarities to the porphyry dykes in JY17001. A summary of the encountered lithologies in JY17001 are summarized in table 10.3.

Anomalous concentrations of Au, Ag, and Zn were intersected over significant intervals in strongly quartz-pyrite altered feldspar porphyritic andesite flows and interbedded tuffs (Figures 10-4 and 10-5) in the lower half of JY17002 including 27.30 m of 0.14 g/t Au, 1.9 g/t Ag and 513 ppm Zn from 432.20-459.5 m.

The long intervals of anomalous Au, Ag and Zn as well as alteration style and intensity are consistent with proximity to a mineralized magmatic-hydrothermal system.



Figure 10-4: JY17002 @ 444.20 m, strong to intense quartz-pyrite altered fine intermediate volcanics (IVC1) hosting a set of pyrite stringers. The 3 m interval (444.2-447.2 m) yielded 0.010% Cu, 152 ppb Au, 5.5 ppm Ag, 45.7 ppm Mo and 600 ppm Zn



Figure 10-5: JY17002 @ 462.23 m, strong quartz-pyrite and epidote-chlorite-pyrite altered fine intermediate volcanics (IVC1) hosting a set of pyrite stringers. The 3 m interval (462.2-465.2 m) yielded 0.010% Cu, 95 ppb Au, 1.2 ppm Ag, 7 ppm Mo and 160 ppm Zn.

Table 10.3 JY17002 overview of intercepted lithologies

From (m)	To (m)	Length (m)	Litho code	Comment
0	21.20	21.20	OVB1	Overburden/Casing
21.20	60.38	39.18	IVC1	Fine intermediate volcaniclastics
60.38	67.13	6.75	MDX1	Mafic dykes
67.13	75.51	8.38	IVC1	Fine intermediate volcaniclastics
75.51	81.48	5.97	MDX1	Mafic dykes
81.48	84.28	2.80	IVF1	Feldspar porphyritic andesite flows and interbedded tuffs
84.28	159.00	74.72	IVC1	Fine intermediate volcaniclastics
159.00	166.00	7.00	IVC1IVF1	Fine intermediate volcaniclastics, and feldspar porphyritic andesite flows and interbedded tuffs
166.00	400.05	234.05	IVF1	Feldspar porphyritic andesite flows and interbedded tuffs
400.05	474.20	74.15	IVF1IVC1	Feldspar porphyritic andesite flows and fine intermediate volcaniclastics
474.2	507.20	33.00	IVC1IVF1	Fine intermediate volcaniclastics, and feldspar porphyritic andesite flows and interbedded tuffs

10.1.3 Drill hole JY17003

Lithology: JY17003 intersected a similar rock package of the Early Jurassic Toodoggone Formation in JY17001 and JY17002 (described above). From 10.00-384.58m the core consists of fine intermediate volcaniclastics (IVC1), and feldspar porphyritic andesite flows and interbedded tuffs (IVF1). Near the top of the hole (10-113.96m) more felsic volcaniclastics (FVC1) are noted that are characterized by faulted, dacite to rhyolite ash tuffs and flowbanded flows. FVC1 has a very fine-grained to aphanitic, grey to white, locally glassy, matrix hosting up to 15% plagioclase as angular fragments and euhedral laths ranging in size from <1-3mm and up to 3% <1mm quartz eyes.

A short interval of intermediate, flowbanded flows and pyroclastics rocks (IVF2) is present at 345.48-358.68m. The light coloured flows are characterized by a fine-grained groundmass consisting of plagioclase (80%) microtoliths (and quartz?) hosting up to 3% of 1-2mm stubby, glomerocrystic oligoclase, up to 1-2% <1cm long acicular hornblende needles and rare <1mm biotite. Pyroclastics rocks of the same composition are present at the base of the IVF2 interval.

IDP2 porphyry dykes, similar to IDP1 feeder dykes to the volcanic sequence of the Metsantan and Duncan members of the Toodoggone Formation, were intersected at 384.58-517.00 m and are intruded by narrow, green to black, weakly feldspar porphyritic, unaltered mafic dykes (MDX1). IDP2 is characterized by an aphanitic cream-white to pale-mauve coloured groundmass (40-45%) hosting 25-30% <1-2 mm feldspar, 15-25% 1-3 mm ferromagnesian minerals (mostly acicular hornblende) and trace (<1%) 1-2 mm quartz phenocrysts. Intrusion breccia as well as very fine-grained mafic xenoliths are common.

Alteration and Mineralization: FVC1 felsic volcanics at the top of JY17003 (10.00-113.96 m) are epidote-chlorite-pyrite altered as well as quartz-sericite altered. The remainder of the hole displays varying degrees of epidote-chlorite-pyrite alteration. Abundance of quartz-magnetite veinlets, post-dating epidote-chlorite-pyrite alteration, increases towards the bottom of the hole.

Quartz-sericite alteration in FVC1 felsic volcanics has converted all feldspar to sericite and white clays while mafic fragments and phenocrysts are replaced by pyrite. Rare bladed gypsum veinlets are noted within strong quartz-sericite altered parts of FVC1.

Epidote-chlorite-pyrite alteration in JY17003 is often moderate to strong in intensity and characterized by: (a) disseminated pyrite and dark chlorite-epidote pseudomorphs of hornblende and locally magnetite-hematite pseudomorphs of biotite(?); (b) poorly defined epidote and feldspar veinlets associated with patches of sphalerite and galena in the veinlet envelope; and (c) epidote altered xenoliths (especially in IDP2). Locally, 5mm sphalerite-galena veinlets are noted with trace pyrite and chalcopyrite as well as fine patches of sphalerite rimmed by galena. There is likely an albite component to this alteration assemblage characterized by bone-white to orange hard groundmass alteration.

Summary and results: Similarly to JY17001, JY17003 intersected volcanic rocks and porphyritic feeder dykes of the Early Jurassic Toodoggone Formation. Table 10.4 summarizes the encountered lithologies in JY17003. The quartz-sericite altered felsic volcanics at the top of the hole (10.00-113.96 m) are strongly pyritic averaging 11% (calculated) pyrite compared to the rest of the hole, which averages 1.2%. Anomalous concentrations of Cu, Mo, Ag and Zn increase towards the bottom of the hole. Strongly epidote-chlorite-pyrite altered porphyry dykes at the bottom of the hole are strongly anomalous in Zn and averaged 5,573.5 ppm Zn over 88.32 m from 384.58 m to 472.90 m (Figure 10-7) including 15,789.4 ppm Zn and 0.167 g/t Au over 5.6 m from 467.3 m to 472.90 m (Figure 10-8).

The long intervals of anomalous Zn as well as alteration style and intensity are consistent with proximity to a mineralized magmatic-hydrothermal system. The decrease in pyrite and increase in concentrations of Cu, Mo, Zn and Ag might be indicative of a porphyry system at depth or laterally.



Figure 10-6: JY17003 @ 442.2 m, hematized, epidote-dark chlorite-magnetite altered intermediate dyke porphyry (IDP2) with disseminated honey coloured sphalerite and irregular quartz-magnetite veinlets with honey coloured sphalerite. The 3 m interval (442-445 m) hosting this sample yielded 7,080 ppm Zn



Figure 10-7: 17003 @ 469.2 m, moderate dark chlorite-epidote-magnetite altered intermediate porphyry dyke (IDP2 hosting stringers and blebs of sphalerite and pyrite. The 3 m interval (467.63-470 m) hosting this sample yielded 160 ppb Au and 1.7% Zn.

Table 10.4 JY17003 overview of intercepted lithologies

From (m)	To (m)	Length (m)	Litho code	Comment
0	10.00	10.00	OVB1	Overburden/Casing
10.00	22.00	12.00	IVC1FVC1	Fine intermediate volcaniclastics, and intermediate to felsic volcaniclastics
22.00	113.96	91.96	FVC1	Intermediate to felsic volcaniclastics
113.96	145.00	31.04	IVC1IVF1	Fine intermediate volcaniclastics, and feldspar porphyritic andesite flows and interbedded tuffs
145.00	211.43	66.43	IVC1	Fine intermediate volcaniclastics
211.43	345.48	134.05	IVF1	Feldspar porphyritic andesite flows and interbedded tuffs
345.48	358.68	13.20	IVF2	Intermediate volcani-/pyroclastics
358.68	367.8	9.12	IVF1IVC1	Feldspar porphyritic andesite flows and fine intermediate volcaniclastics
367.80	384.58	16.78	IVC1	Fine intermediate volcaniclastics
384.58	467.63	69.42	IDP2	Intermediate porphyry dyke
467.63	472.9	5.27	IDP2MDX1	Intermediate porphyry dyke intruded by mafic dyke
472.9	480.3	7.40	MDX1	Mafic dyke
480.30	517.00	36.70	IDP2	Intermediate porphyry dyke

10.1.4 Drill core sample preparation and analytical procedures

Amarc completed 1,527.2 m of drilling in three holes averaging 509 m in length in the 2017 program. Of this total, 1,482 m was cored bedrock and the remaining 45 m was cased. Drill holes averaged 15 m in depth of overburden and 494 m of core for this drilling. Overburden was not recovered or sampled.

Full chain of custody control was maintained for all analytical samples in the 2017 drill program, from collection at the drill rig through to delivery at the analytical laboratory.

Downhole assay samples were assigned by Amarc geological staff. Assay samples were typically laid out in 3 m lengths. Samples did not span lithological boundaries, core diameter reduction points, or other major logging intervals defined by the geologist. The beginning of each sample interval was marked (for the core cutters) by a transverse red line on the core and core box, and a sample tag marked with the sample interval ‘from’ and ‘to’ depths was stapled into the core box at the same position. Tags indicating the position of certified pulp standards or duplicate analytical samples were inserted every ten regular core samples i.e. every 10th sample is a QA/QC sample.

Upon completion of all core logging procedures, the core was transferred to a secure cutting facility for processing and sampling by Amarc core cutters trained and supervised by senior Amarc technical staff. Using a rock saw, the individual samples were cut lengthwise within the guidelines marked by a geologist. The sampling procedure involved placing the bottom tab of the sample tag from the sample book into a pre-marked plastic sample bag and stapling the stub from the tag book to the core box at the beginning of each sample interval. One half of the cut core was then placed into the appropriate bag, and the cutters were instructed to always select the sample from the same side of the whole core, to avoid sample bias. This also ensured that the remaining half-core pieces fit together when placed back in the core box for storage. Once a sample was completed, the sample bag was securely closed with a plastic cable tie. At the end of each shift, the sample bags were placed into labelled rice bags (3 to 4 samples per bag), which were also securely closed with cable ties and made ready for transport to the analytical laboratory. The rice bags and sample shipment paperwork were shipped by commercial surface freight carrier to Activation Laboratories Ltd (Actlabs) laboratory facility in Kamloops, BC. Throughout this process, drill core and samples were stored in locked and secured conditions to maintain control and ensure chain of custody.

All drill core samples were digested and analyzed by three separate analytical methods at Actlabs, Kamloops: (1) a 36 element four acid (total) digestion ICP-OES method (TD-ICP or 1F2); (2) a 63 element Aqua Regia digestion ICP-MS method (AR-MS or UT1); and (3) a precious metals 30 g fire assay fusion method FA-ICP (1C-OES), were employed. In all, 65 elements were determined.

A summary flow chart outlining the procedures used for drill core handling, sample processing and assay protocol is provided in figure 12.2.

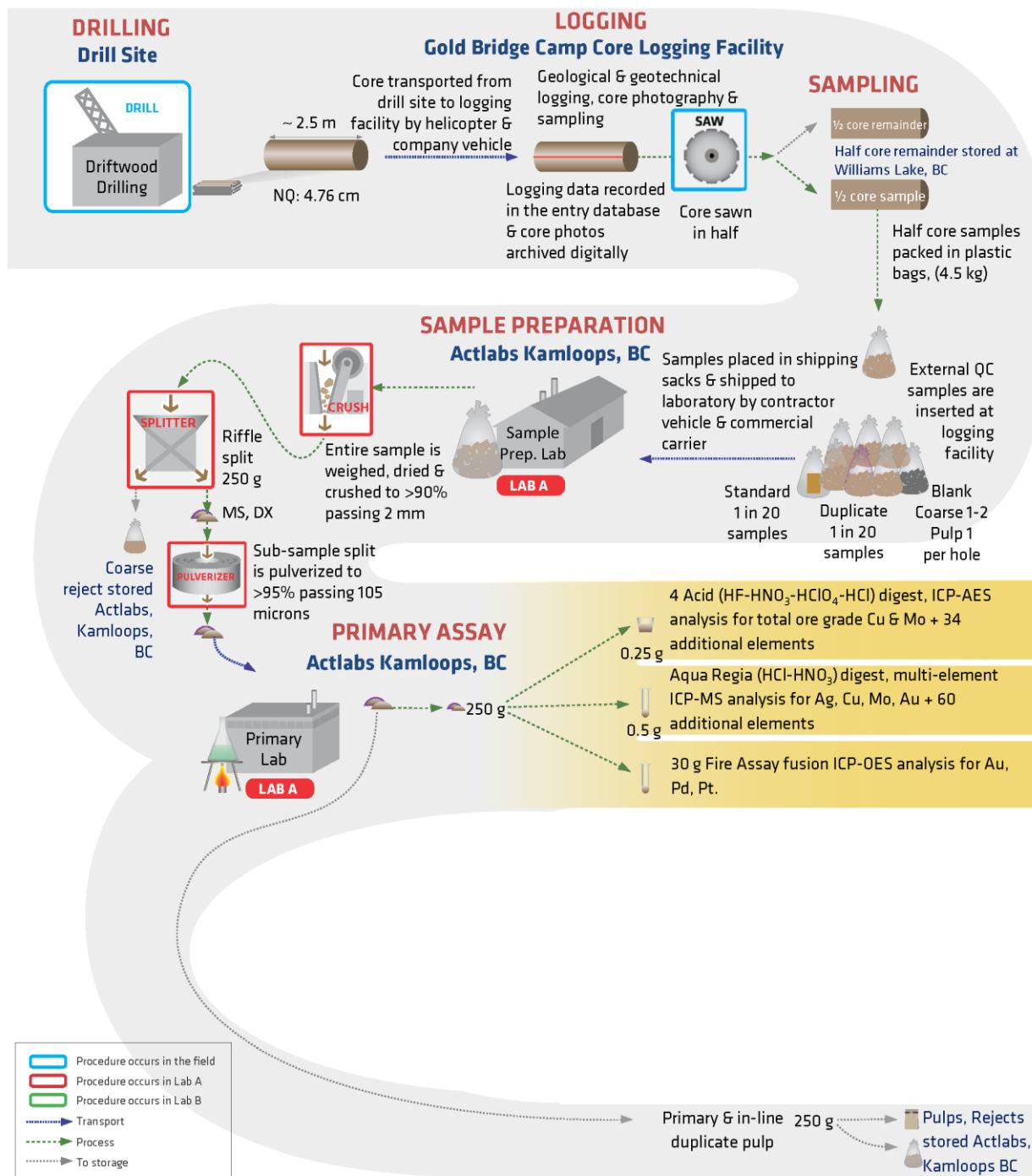


Figure 10-8: JOY 2017 Sampling, Sample Preparation, Security & Analytical Flow Chart

10.2 Induced Polarization Survey

The IP survey covered 49 line-km on eight lines with a nominal line spacing between 200-400 m utilizing a 100 m a-spacing measuring the 1st to 10th separations. Additional levels were also read.

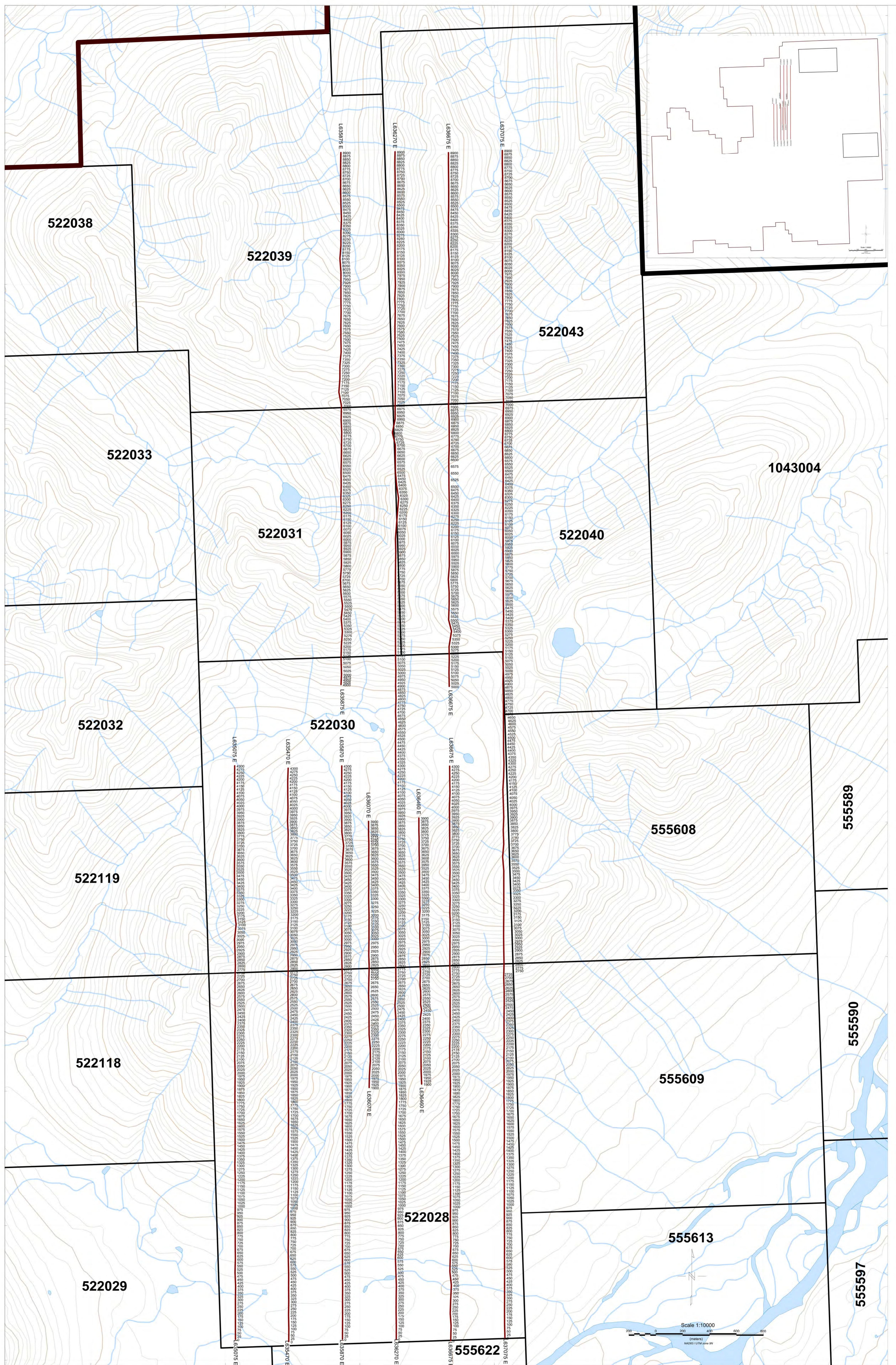
The location of the surveyed lines is shown on figure 10-9. More detailed survey specifications and pseudo cross-sections for IP chargeability and resistivity are included in Appendix E.

Significant, deposit-sized IP chargeability anomalies were identified on IP survey lines L635870, L635875 and L636070. The anomalies are coincident with IP resistivity highs.

Drill hole JY17001 tested the IP chargeability anomalies on L636270 and identified mineralization and alteration consistent with the peripheral expression of a porphyry system. A second IP chargeability anomaly and coincident resistivity high was identified on line L636270 at its northern limit. This open-ended anomaly is at least 1.25 km long and extends beyond the surveyed area at station 8,900. Overlying this IP chargeability anomaly is a high contrast Cu in soil anomaly. The identified coincident geochemical and IP anomalies are located in an area where prospective Takla volcanic rocks are mapped.

Two extensive IP chargeability anomalies and coincident IP resistivity highs were identified on line L636675. The southern IP anomaly is 1.7 km long, starts at station 2,400 and extends to station 4,100 m. Most of this IP anomaly is overlain by a significant Cu (\pm Mo) soil anomaly that was partially tested by JY17003. A second, deeper seated IP anomaly is present at the northern edge of line L636675 and extends beyond the surveyed area at station 8,900.

Drill hole JY17002 tested an IP chargeability anomaly on line L637075 and the long intervals of anomalous Au, Ag and Zn as well as alteration style and intensity are consistent with proximity to a mineralized porphyry system. A second, 400 m long, IP chargeability anomaly at the northern extend of L637075 is associated with an IP resistivity high and overlain by a Cu soil anomaly indicating the potential for a mineralized porphyry stock at depth.

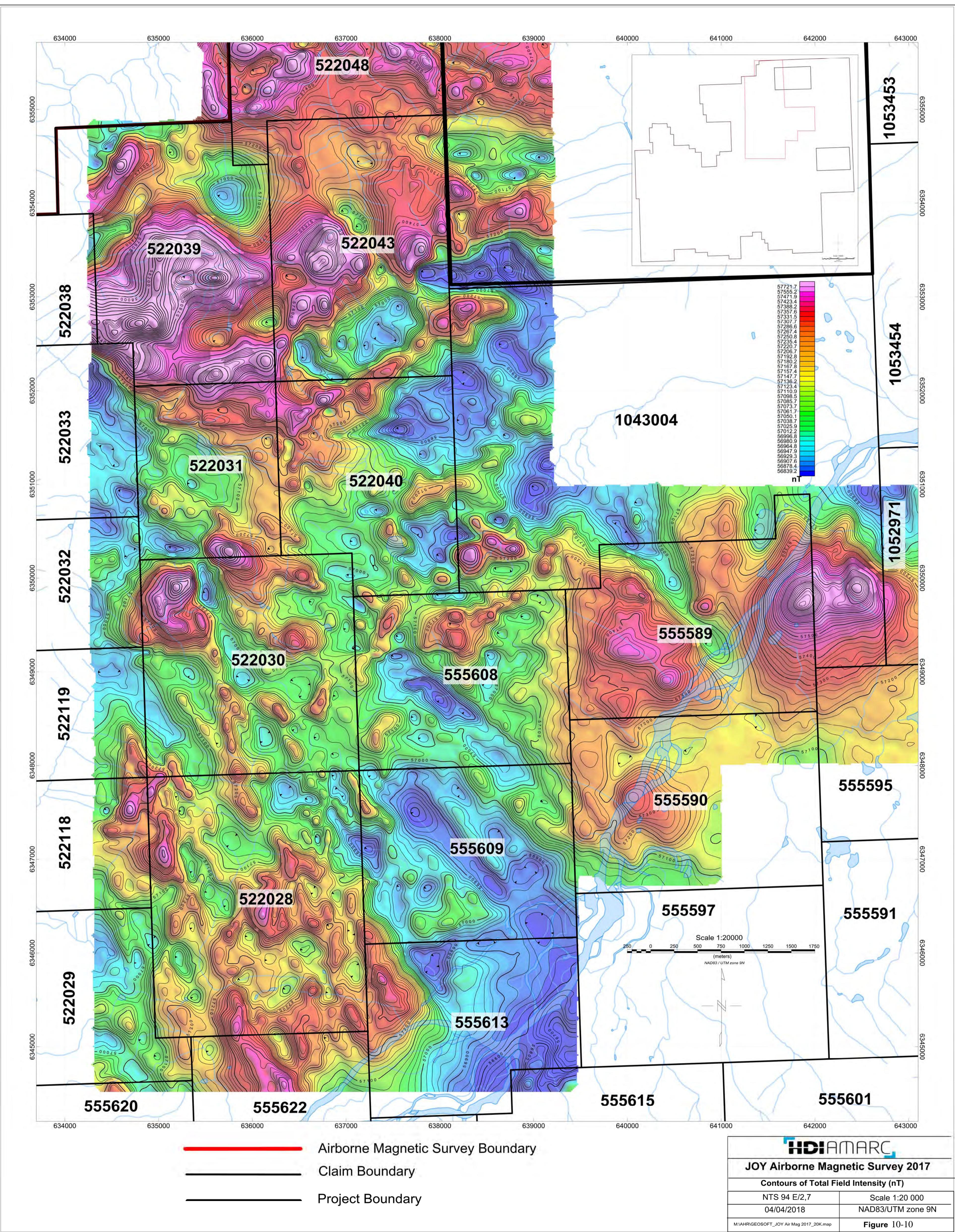


IP Survey Line
Claim Boundary
Project Boundary

HDI AMARC
Induced Polarization Survey
Line Location Map
04/04/2018 Scale 1:10 000
MAHROJOGEOSOFUOY_IP Survey Lines 2017_10K.map
Figure 10-9

10.3 Airborne Magnetic Survey

A helicopter-borne magnetic survey was completed over 73 km² of the JOY claims. The survey was flown at a 100 m line spacing for a total of 470 line-km. Figure 10-10 shows the outline and total magnetic intensity data of the 2017 survey. A detailed logistics report of the 2017 magnetic survey is provided in Appendix F including surveys specifics, flight lights and additional maps.



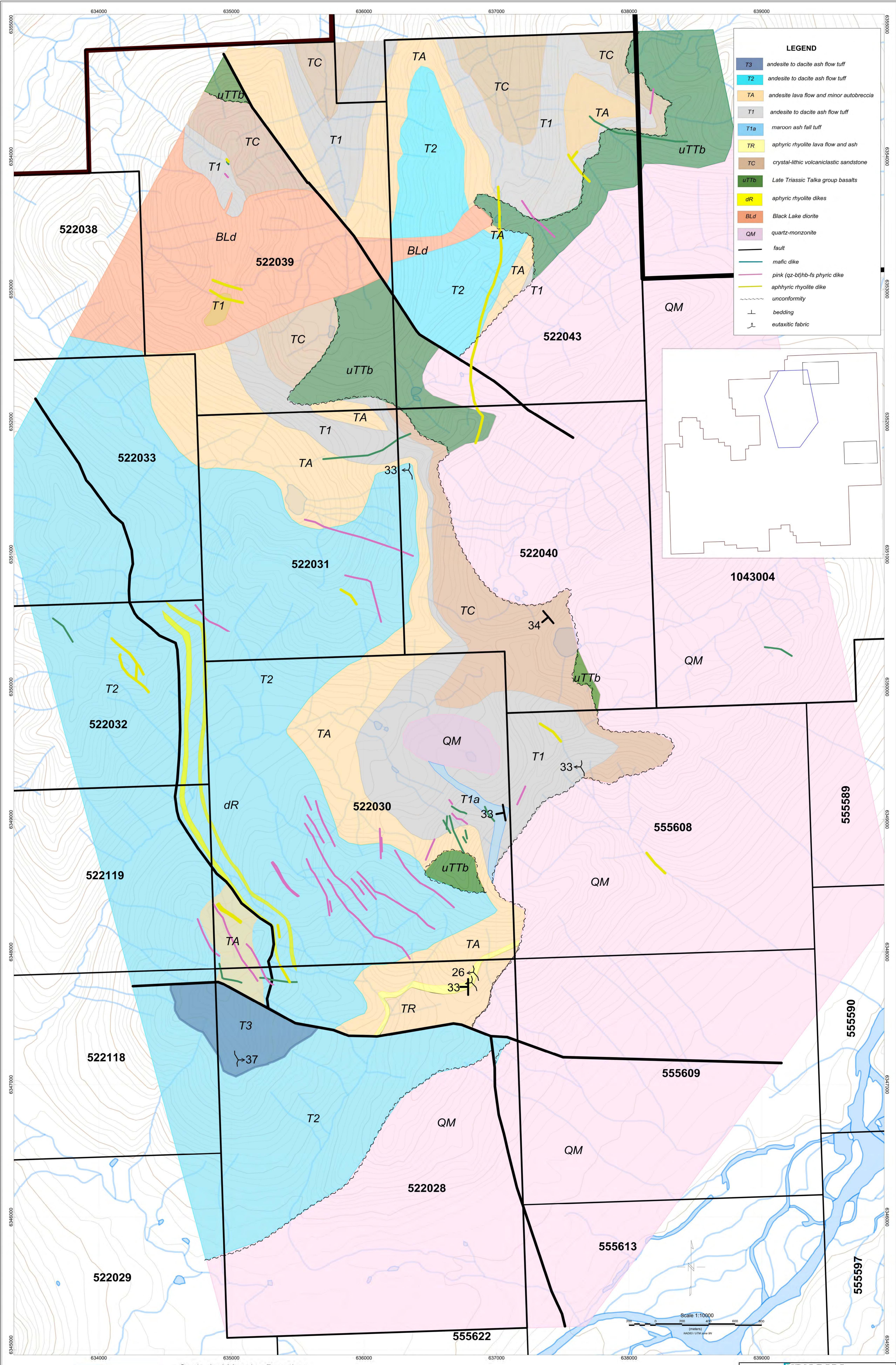
10.4 Geological Mapping

Approximately 40 km² were mapped during July 2017 at a scale of 1:20,000 (Figure 10-11). The mapping focusing on the area of the 2017 IP and soil geochemical surveys and extended towards the Finlay River to the southeast.

The JOY Project is predominantly underlain by Triassic and early Jurassic volcanic and intrusive rocks of the Quesnel Terrane, and encompasses large (2 x 8 km) alteration zones which may be associated with a porphyry system or systems. These may be shallowly buried below high ground or very near surface in poorly-exposed valley bottoms. The NW-SE elongate zones of quartz-sericite-pyrite±clay (QSP) and enclosing epidote-chlorite-pyrite alteration are interpreted to represent high-level alteration related to porphyry system(s) beneath them. The alteration and potentially the porphyry systems beneath may be focused along, and are locally cut by a major NW-trending structure.

The 2017 drilling tested a multi-element soil geochemical anomaly (Au-Mo), which occurs within the QSP alteration zone, and a surrounding halo of Mn and Zn, which suggests the high level signature of a buried porphyry Au-Cu system centered beneath the Au-Mo anomaly.

These alteration and geochemical zones are likely modified by post-mineral normal faulting which may have displaced the SW portion of the hydrothermal system downwards, partially masking its surface expression in that area. Limited geological constraints make it difficult to infer precisely the offset and geometry of these faults.



Geological Mapping Boundary
Claim Boundary
Project Boundary

HDIAMARC
JOY Geological Mapping Program 2017
04/04/2018 Scale 1:10 000
JOY_Geological Mapping 2017_10K_M_AHRIEGESEOTT
Figure 10-11

10.5 Geochemical Surveys

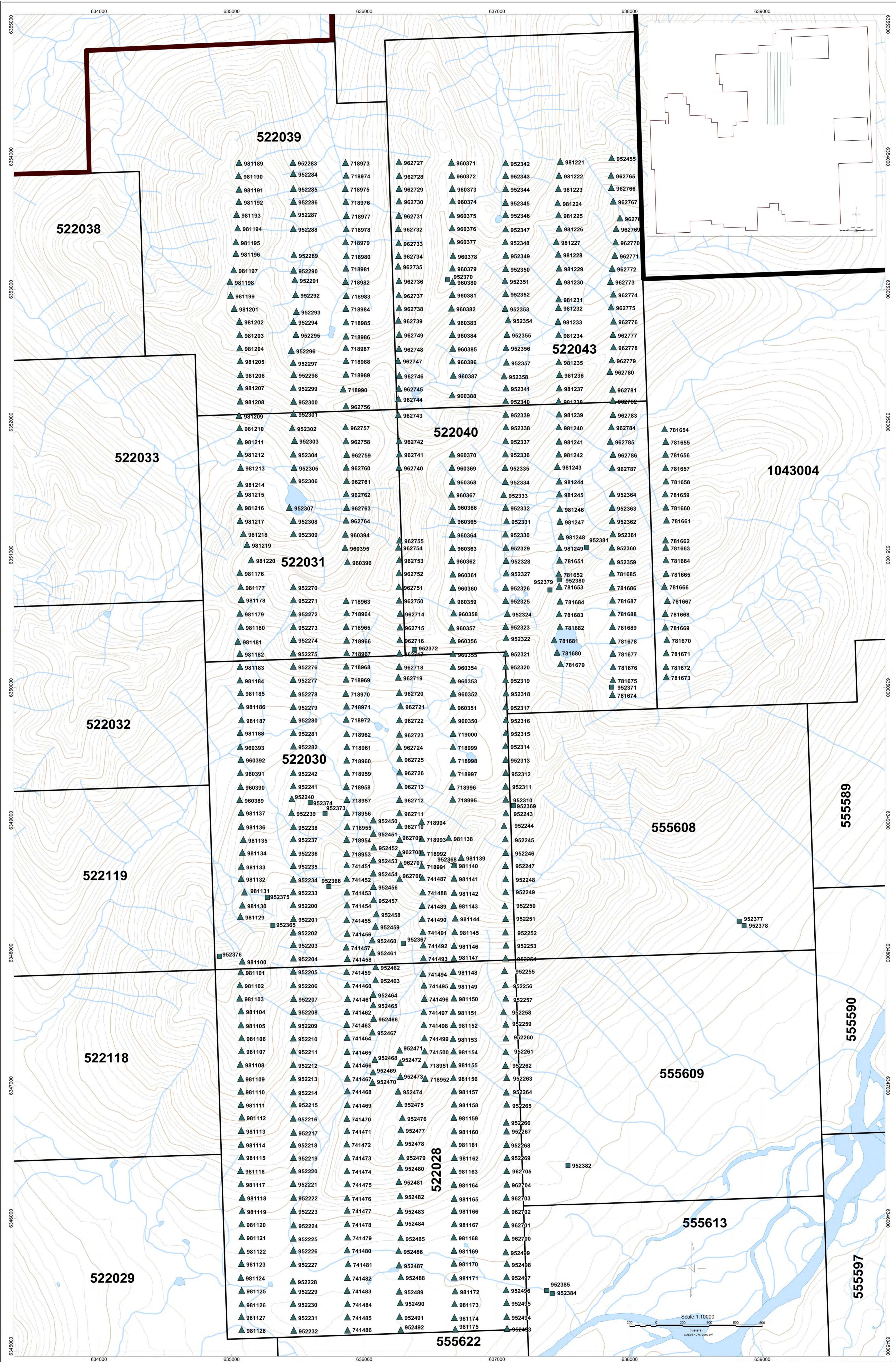
The 2017 soil geochemical survey entailed collecting soil samples every 100 m along the 2017 IP survey lines, as well as extending the sample lines on some of the 2017 IP survey lines to the north. In total 638 soil samples were collected over 64 line-km. Samples were collected from the B horizon, which was typically found at depths of 5-30 cm; locally the A or C horizon was sampled (whichever was present in the absence of B horizon).

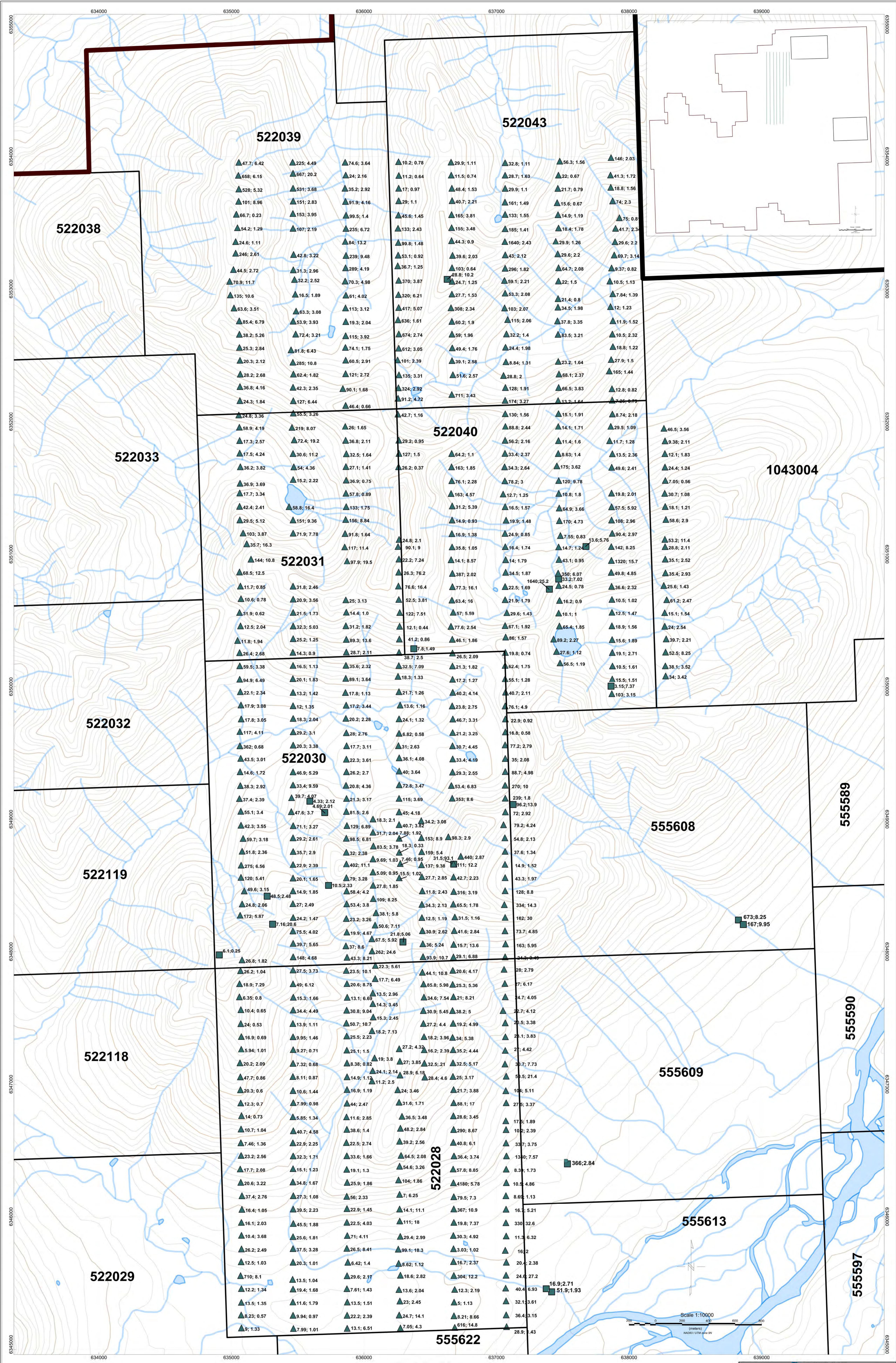
Sample locations and numbers for soil and rocks samples are plotted on figures 10-12. Cu and Mo concentrations for the samples are plotted on figure 10-13. Sample location coordinates are provided in Appendix G.

At the northwestern boundary of the soil geochemical survey and approximately 4 km north of IP survey lines L635075 and L635470, an open-ended Cu±Au anomaly, measuring 150 m on two samples lines separated by 400 m, was identified. This area is in close proximity to the prospective Takla volcanic rocks and Jock Creek Pluton, which generally yield elevated Cu concentrations in soils in the northern part of the IP and soil surveys.

A high contrast Cu±Au soil anomaly, measuring roughly 800 m, is present in the northern part of IP line L636270 in an area underlain the prospective Takla volcanic rocks. The IP survey identified a co-incident IP chargeability and resistivity anomaly that measures at least 1.25 km and remains open to depth and to the north. The geochemical and geophysical anomalies in this area are suggestive of mineralized porphyry intrusions hosted within the Takla volcanic rocks, which overlie and host some of the Kemess mineralization.

A roughly 650 m long Au soil anomaly is present in the northern part of IP line L637075 with concentrations ranging up 171 ppb Au. This anomaly is associated with a moderate to high Cu concentrations ranging up to 1,640 ppm Cu and is underlain by a 400 m long moderate IP chargeability and resistivity (high) anomaly indicating the potential for a mineralized porphyry stock at depth.





Cu; Mo ppm Rock Sample
Cu; Mo ppm Soil Sample

Claim Boundary
Project Boundary

11. Conclusions and Recommendations

The 2017 exploration programs on the original JOY claims in the Kemess Toodoggone Au-Cu porphyry district collectively emphasize the high potential for major Au-Cu porphyry deposit discoveries.

The three drill holes (JY17001 through JY17003) returned strongly anomalous results in Au and Zn over significant intervals, hosted mainly within highly altered quartz monzonite porphyry dykes and volcanic rocks of the Toodoggone Formation. In addition, the drill holes intersected significant intervals of strong phyllitic and propylitic porphyry style alteration, which are typically above or adjacent to mineralized porphyry centres. Of particular note is hole JY17003 where 5,573.5 ppm Zn over 88.32 m from 384.58 m to 472.90 m including 15,789.4 ppm Zn and 167.2 g/t Au over 5.60 m from 467.30 m to 472.90 m were intersected in highly altered porphyry dykes. The extensive hydrothermal alteration and metal signatures are compatible with proximity to a substantial magmatic-hydrothermal system. Furthermore, strongly hematized rocks in the three drill holes are indicative of interaction with oxidized hydrothermal fluids, which are an important component in the formation of Au-Cu porphyry deposits.

The soil geochemical and IP surveys identified several deposit-scale porphyry targets, many of them are located in areas where Takla volcanic rocks are mapped, which are a prospective rock unit in the district and one of the hosts of the Kemess Au-Cu deposits.

The geological mapping revealed extensive alteration zones that represent high-level alteration associated with a porphyry system or systems. The area of the drilling may represent a high level signature of a buried porphyry Au-Cu system nearby. The alteration and potentially the porphyry systems beneath may be focused along, and are locally cut by a major NW-trending structure.

Amarc's detailed regional aeromagnetic survey and an historical survey outlined multiple magnetic deposit-scale targets. that occur in the 20 km long, northeast trending Finlay Magnetic Corridor ("FMC"). The FMC is orientated parallel to the Finlay River valley and may reflect a magmatic corridor intruded by porphyry deposit-forming stocks such as the Pine intrusion, which hosts most of the mineralization of the Pine porphyry Au-Cu deposit (Dickinson, 2006).

The magnetic targets within and adjacent to the prospective FMC require IP surveying, geochemical sampling and geological mapping/prospecting to assess their porphyry target potential for drilling.

Additional IP and soil geochemical surveying to the north of 2017 work program is required to fully determine the size and potential of the various open-ended soil geochemical and IP anomalies that were identified during the 2017 exploration program. In addition, geological mapping of these areas is necessary to confirm the presence of the prospective Takla volcanic rocks.

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13. Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, **Michael Galicki, M.Sc., P.Geo.** of Vancouver, British Columbia, do hereby certify:

1. I am Manager – Project Services working for Hunter Dickinson Services Inc., with offices located at 15th floor 1040 West Georgia St, Vancouver, BC.
2. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, holding License Number 43571.
3. I am a graduate of Laurentian University, Sudbury ON, (B.Sc. Hons. Geology, 2008) and Simon Fraser University, Burnaby BC (M.Sc. Geology, 2011) and have been working as an exploration geologist since June 2009 in Canada and USA.
4. I am the Project Geologist on the JOY Project.
5. I am an author of this report.

Signed on the 23rd day of April, 2018.



Michael Galicki, M.Sc., P.Geo.

STATEMENT OF QUALIFICATIONS

I, **Elena Musienko, Ph.D., P.Geo.**, of Vancouver, British Columbia, do hereby certify:

1. That I am a Professional Geoscientist (P.Geo.) registered with Engineers and Geoscientists British Columbia (Member ID No. 161236, License No. 36293).
2. That I completed a Doctorate degree (Geology and Mineralogy) from the Institute of Seismology, Bishkek, Kyrgyzstan, in December 1998.
3. That I have been employed in the mineral exploration industry since 2006.
4. That I am employed by Amarc Resources Ltd. with a head office located at 15th Floor - 1040 West Georgia Street, Vancouver, BC Canada, V6E 4H1.
5. That I carried out generation of maps and cross sections for assessment reporting while under contract with Amarc Resources Ltd.

Signed on the 23rd day of April, 2018.

/s/ Elena Musienko
Elena Musienko, Ph.D., P.Geo.

Statement of Qualifications

I, Roy Edward Greig, of 250 Farrell St., Penticton, British Columbia, Canada, hereby certify that:

1. I am a graduate of the University of British Columbia with a B.Sc. (Honours) (Geological Sciences, 2012) and have practiced my profession continuously from 2011 to present.
2. I have been employed in the geoscience industry for 11 years, and have explored for base and precious metals in North America, South America, and Africa for a number of junior mining companies.
3. I have been certified as a Professional Geoscientist (P.Geo.) by the Association of Professional Engineers and Geoscientists of British Columbia (license #171943), though I do not currently maintain active status.
4. I am the author of the "Geological Mapping" section of this work program report.
5. I was a consulting geologist on the JOY project and completed the geological mapping part of the work program.

Dated at Penticton, British Columbia, this 23rd day of April, 2018.

Respectfully submitted,

"Roy E. Greig"

Roy E. Greig, B.Sc.

14. Statement of Costs

Exploration Work Type	Comment			
Field Program Preparation and Mobilization				
Personnel (Name) / Position	Field Days (list actual days)	Days	Rate	Subtotal
Michael Galicki, Project Manager, Geologist	Jul 04 - Jul 06	3	\$1,120	\$3,360.00
Richard Roe, Field Technician	Jul 01 - 02	1.5	\$400	\$600.00
Chris Roe, Field Technician	Jul 01 - 02	1.5	\$260	\$390.00
	person-days:	6		\$4,350.00
Field Program				
Personnel (Name) / Position	Field Days (list actual days)	Days	Rate	Subtotal
Michael Galicki, Project Manager, Geologist	Jul 07 - Jul 12, Aug 06 - Sep 06	38	\$1,120	\$42,560.00
Roy Greig, Mapping Geologist	Jul 07 - Jul 19	13	\$600	\$7,800.00
Mark Rebagliati, Exploration Manager	Aug 17 - 18	2	\$2,160	\$4,320.00
Alexandra Schroeder, Field Technician and First Aider	Aug 06 - Sep 07	33	\$425	\$14,025.00
Richard Roe, Field Technician	Jul 03 - Jul 07	5	\$400	\$2,000.00
Chris Roe, Field Technician	Jul 03 - Jul 19, Sep 03 - Sep 11	28	\$260	\$7,280.00
Geoff Krawchuk, Field Technician	Jul 07 - Jul 19	13	\$560	\$7,280.00
Jordan Lewis, Field Technician	Jul 07 - Jul 19	13	\$450	\$5,850.00
Brendon Lenkart, Field Technician	Jul 07 - Jul 19	13	\$450	\$5,850.00
Carlos Porter, Core Cutter	Aug 23 - Sep 08	17	\$200	\$3,400.00
Sonny Alexander, Core Cutter & Field Technician	Sep 04 - Sep 13	10	245	\$2,450.00
Phillip Charlie, Core Cutter	Aug 12 - Aug 21	10	\$200	\$2,000.00
	person-days:	195		\$104,815.00
Accommodation & Food			Rate	Subtotal
Room & Board & Meals for entire program and all surveys	Black Lake Camp		\$200.00	\$178,000.00
Camp generator rental	United Rentals of Canada Inc., Prince George, BC			\$9,154.50
Misc. accommodation expenses relating to travel to site	From Expense Reports			\$1,870.74
Misc. meal expenses	From Expense Reports			\$1,610.16
				\$190,635.40
Transportation				Subtotal
Airfare	Return flights to Prince George/Smithers			\$4,763.11
	Tsayta Aviation Ltd., flights into Sturdee airstrip			\$10,017.00
Truck Rental	Driving Force, Prince George, BC			\$10,751.15

Fuel	From Expense Reports			\$5,754.27
	BJ Mobile Fuels			\$9,258.20
	Mustang Helicopters, Blackfalds, AB			\$81,749.41
	Silver King Helicopters, Smithers, BC			\$2,585.96
Helicopter	Mustang Helicopters, Blackfalds, AB			\$450,097.09
				\$574,976.19
Diamond Drilling		NQ	Rate	Subtotal
Drill Contractor	Driftwood Drilling, Smithers, BC	1527	\$116.56	\$177,981.50
Pad Builders, Fallers	P&R Exploration, Smithers, BC			\$45,800.00
Drill Pad Lumber	P&R Exploration, Smithers, BC			\$10,052.12
				\$233,833.62
Geochemical Analyses, drill core and soil samples		Sampl es		Subtotal
Analyses	Actlabs, Kamloops, BC			\$41,133.32
QA/QC Standards	Analytical Solutions Ltd., Mulmur, ON			\$417.34
				\$41,550.66
Freight				Subtotal
Shipping (Miscellaneous)	Greyhound			\$116.63
Shipping (Lumber, Fuel)	ChuCho Industries L.P.			\$14,865.00
Shipping (Drill Core)	Bandstra Transportation, Smithers, BC			\$171.41
Shipping (Camp Trailer)	Lepka Holdings Ltd.			\$18,825.00
				\$33,978.04
Geophysical Contractor				Subtotal
Induced Polarization Survey	Peter E. Walcott & Associates Ltd.			\$260,487.66
Airborne Magnetic Survey	Peter E. Walcott & Associates Ltd.			\$29,966.24
				\$290,453.90
Miscellaneous				Subtotal
Field supplies	From Expense Reports			\$11,553.54
	Deakin Industries, Vancouver, BC			\$3,572.18
	IRL Supplies, Prince George, BC			\$750.96
	Treeline Wood Products Inc., Smithers, BC			\$6,890.80
Health & Safety Supplies	From Expense Reports			\$2,209.99
	Deakin Industries, Vancouver, BC			\$640.93
Telecommunications	Satellite internet			\$939.94
Drill Core Storage	Mueller Electric, Williams Lake, BC			\$1,500.00
				\$28,058.34
Assessment Report and Map Preparation	List Personnel			
	Michael Galicki (Author)	5	\$1,120.00	\$5,600.00

	C. Mark Rebagliati (Author)	1	\$2,160.00	\$2,160.00
	Eric Titley (QA/QC)	1.5	\$1,360.00	\$2,040.00
	Elena Musienko (Maps and Figures)	2	\$300.00	\$600.00
	Roy Greig (Author, Geological Map Compilation)	3	\$600.00	\$1,800.00
				\$12,200.00
<i>TOTAL Expenditures</i>				<i>\$1,514,851.15</i>

Geology Log (JOY) - Amarc Resources Ltd.

Project:

Hole ID: JY17001



Drill Core Samples		UTM NAD 83 Zone 9		Direction/Length		Drill Hole Information					
Logged By	Michael Galicki	Easting	636,271.00	Azimuth	0.00°	Date Start	13-Aug-2017				
Laboratory	Actlabs Kamloops	Northing	6,347,697.00	Inclination	-45.00°	Date End	21-Aug-2017				
File No.	A17-09418, A17-09680	Elevation	1,421.00	Length	503.00m	Operator	Amarc Resources Ltd.				
Comment	JY17001 is testing the Au-Mo anomaly and coincident IP chargeability anomaly on L636270. Collar is located around station 2600.										

Collar and Down Hole Survey						
Depth	Azimuth	Dip	Temp	Mag.	Roll	Method
0.000	0.00	-45.00				Collar
25.000	1.40	-45.90	10.1	5732		EZ-Shot
50.000	0.90	-45.90	11.8	5728		EZ-Shot
100.000	2.50	-46.20	9.7	5678		EZ-Shot
150.000	3.40	-46.90	8.7	5717		EZ-Shot
200.000	3.60	-47.40	9.3	5722		EZ-Shot
250.000	4.90	-47.80	11.2	5727		EZ-Shot
300.000	9.60	-47.20	12.4	5651		EZ-Shot
377.000	9.00	-46.20	11	5661		EZ-Shot
400.000	8.30	-44.80	7.9	5648		EZ-Shot
452.000	12.40	-43.70	15.1	5714		EZ-Shot
500.000	13.00	-42.10	15.8	5698	319	EZ-Shot

Drilling Bit Size			
Bit Size	From	Tom	Length
Casing	.00	14.00	14.00
NQ	14.00	503.00	489.00

Alteration Code	LithoCode 1
QPX1: Quartz-pyrite	OVB1: Casing
ECS1: Epidote-Chlorite-Pyrite	IVF1: Porphyritic andesite flows with interbed
Alteration Intensity	IVC1: Ash- to lapilli-ash tuffaceous andesite
1: Incipient	IPD1: Intermediate porphyritic dyke
2: Weak	IDP1: Intermediate porphyry dyke
3: Moderate	GDI1: Inequigranular granodiorite to quartz-mo
4: Strong	MDX1: Mafic dykes
5: Intense	QMI1: Equigranular quartz-monzonite to quartz-
Colour	FVC1: Intermediate to felsic volcanics
Black: Black	IVF2: Intermediate volcani/pyroclastics
Dk Grey: Dark Grey	IDP2: Intermediate porphyry dyke
Md Grey: Medium Grey	LithologyFac1
Lt Grey: Light Grey	PORP: Porphyry (>50% phenocrysts)
Dk Grn: Dark Green	PTEX: Porphyritic (<50% phenocrysts)
Md Grn: Medium Green	SERI: Seriate
Lt Grn: Light Green	HIAT: Hiatal
Tan: Tan or buff	EQUI: Equigranular
White: White	APHA: Aphanitic
Dk Brn: Dark Brown	PEGM: Pegmatitic
Md Brn: Medium Brown	Weathering
Lt Brn: Light Brown	Fresh: No visible weathering
SnP: 'Salt and pepper'	WkFrac: Some fractures; no pervasive
Pink: Pink	StFrac: Most fractures; no pervasive
Purple: Purple	WkPerv: Weak pervasive + fractures
Blue: Blue	MdPerv: Moderate pervasive + fractures
Maroon: Maroon	StPerv: Strong pervasive + fractures
Structure Gouge	Leached: Completely leached
0: Not applicable	
1: (0-20%)	
2: (21-40%)	
3: (41-60%)	
4: (>60%)	
Structure Type	
Bfl: Brittle fault	
Hfl: Healed fault	
Rub: Rubble	
HS: High-Strain Zone	
Brx: Breccia	
Slk: Slickensides	
Cnt: Contact	
Bed: Bedding	
Jnt: Joint	
Fol: Foliation	
Cat: Cataclasite	
MyI: Mylonite	
Vein Modifier	
IREG: irregular	
STRA: straight	
SINE: sineous, undulated	

From: 0.000	To: 14.000	Length: 14.000											
Geology		Primary	Secondary	Colour		Weathering							
Casing.		OVB1											
Alteration													
Mineralization		Minstyle	Chalcopyrite	Pyrite	Molybdenite								
Veining		Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing					
From: 14.000	To: 29.000	Length: 15.000											
Geology		Primary	Secondary	Colour		Weathering							
IVF1													
Moderately oxidized, epidote-chlorite and quartz-pyrite altered, feldspar porphyritic andesite flows and interbedded tuffs.													
Unit is characterized by: (a) maroon coloured andesite flows with up to 30-40% feldspar phenocrysts (1-2mm and 6-10mm) and up to 30-40% mafic phenocrysts (hbl>bt>aug) (1-4mm); and (b) interbedded fine volcaniclastic layers (ash tuffs).													
Interval is broken, locally faulted with overall decent recovery considering the broken nature of the rock.													
Alteration		Altcode	Intensity										
ECS1				3.00									
Rare biotite is preserved and relatively unaltered, pyroxene (?) and hornblende are chlorite and epidote altered, often entirely replaced by chlorite and epidote. Spatially associated pyrite patches with epidote-chlorite alteration. Also, epidote+/-piedmontite pseudomorphs of feldspars (mainly plagioclase, possibly some alkali feldspars?); larger feldspars are preserved. Unit is reddish, especially the feldspar porphyritic flows, possibly hematization.													
Mineralization		Minstyle	Chalcopyrite	Pyrite	Molybdenite								
				1.000									
Mineralization is disseminated and consists of pyrite blebs and patches ranging from sub- to 4mm, spatially associated with epidote-chlorite alteration.													
Veining		Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing					
Locally networks of remanent veinlets, possibly carbonaceous (dissolved).													

From: 29.000

To: 56.000

Length: 27.000

Geology	Primary	Secondary	Colour	Weathering			
	IVF1						
Epidote-chlorite altered, feldspar porphyritic andesite flows and interbedded tuffs.							
Unit is characterized by: (a) maroon coloured andesite flows with up to 30-40% feldspar phenocrysts (1-2mm and 6-10mm) and up to 30-40% mafic phenocrysts (hbl>bt>aug); and (b) interbedded fine volcaniclastic layers (ash tuffs). Biotite is typically <1-mm, hornblende up to 4-5 mm needles and pyroxene/stubby hornblende 2-4 mm (due to replacement by epidote-chlorite it is challenging to tell). Flows contain plagioclase and possibly alkali feldspars which appear orange to slight pink.							
Some maroon coloured zones might represent ash flow tuffs? With broken, angular fragments of plagioclase.							
Alteration	Altcode	Intensity					
	QPX1		1.00				
	ECS1		3.00				
Rare biotite is preserved and relatively unaltered, pyroxene (?) and hornblende are chlorite and epidote altered, often entirely replaced by chlorite and epidote. Spatially associated pyrite patches with epidote-chlorite alteration. Also, epidote+/-piedmontite pseudomorphs of feldspars (mainly plagioclase, possibly some alkali feldspars?); larger feldspars are preserved. Unit is reddish, especially the feldspar porphyritic flows, possibly hematization. With depth, this interval gets more quartz-pyrite altered with increasing pyrite content (silicification?). Rock strength appears to correlate with alteration with soft clay alteration around faults in epidote-chlorite altered zones vs. Minimal gouge with sharp, angular pieces of quartz-pyrite altered rock mass.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			1.500				
Mineralization is disseminated and consists of pyrite blebs and patches ranging from sub- to 4mm, spatially associated with epidote-chlorite alteration. Slightly more pyrite, mostly associated with qtz-pyrite alteration (pale grey bleaching). At 53-56m, broken interval with poor recovery, Cu-Pb-Zn+/Mo mineralization; black sphalerite, chalcopyrite, galena in patches and in irregular quartz veinlets; possibly cov? (black to dark purple Cu-bearing sulphide); all pieces are broken and appear to be potassically altered (pink kspar, quartz, maybe bt? But uncertain).							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing

From: 56.000

To: 149.000

Length: 93.000

Geology	Primary	Secondary	Colour	Weathering			
	IVC1						
Quartz-pyrite altered, fine intermediate volcaniclastics. Rock mass is very broken and chippy. Black basalt flow at 74-75, post dating alteration at 45 deg TCA at upper contact. hard unit to decipher. Where not structurally deformed or quartz-pyrite altered, there are abundant black to green mafic fragments hosted in a very fine/tuffaceous groundmass. Rock is for the most part grey-green. Potentially some fs-porphyritic flows within this sequence, or potentially IDP1 (?).							
Alteration	Altcode	Intensity					
	ECS1		1.00				
	QPX1		4.00				
Alteration is characterized by hardening/silicification of the rock and associated 1-2mm blebs of pyrite, locally coarser patches. Often cubic pyrite. Some of mafic relicts are replaced by pyrite and magnetite. ECS1 postdates QPX1 alteration (ep-chl veinlets cutting py or mag replaced mafics).							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			0.100	4.000			
Mineralization is disseminated and consists of pyrite blebs and patches ranging from sub- to 4mm, spatially associated with quartz-pyrite alteration. No obvious vein type. Cpy intergrown with pyrite. Mo present along slippage or adjust fault planes, most abundant where structurally deformed. Coarser cubic pyrite along fractures. Black sphalerite is present mostly in the upper part of the interval along black fractures and veinlets. Rare bornite towards lower contact, along fractures with coarse pyrite.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing

From: 149.000	To: 160.500	Length: 11.500							
Geology		Primary	Secondary	Colour		Weathering			
		IDP1		Purple					
Epidote-chlorite altered, hbl-fsp porphyritic dyke. Maroon to tan coloured porphyritic dyke, 25-35% plagioclase (2-5mm), locally glomerocrystic, and up to 15% ferromagnesian phenocrysts that are replaced by epidote-chlorite (mostly hbl needles that are 2-4mm). Subvolc intrusion (feeder dykes intruding volc pile?), however with the maroon colouration, especially of feldspar phenocrysts and some of the groundmass, it is difficult to distinguish.									
Alteration	Altcode		Intensity						
		ECS1			2.00				
		QPX1			1.00				
Epidote-chlorite pseudomorphs of hbl, also epi-chl veinlets and veins at 60 deg TCA, locally with coarse pyrite and chalcopyrite. Appears as if maroon colour is fading into the background as intensity of epi-chl, or mostly dark chlorite, alteration increases. Locally fine fsp? Envelopes to epidote veinlets. Locally hematized magnetite replacing hbl (red rims around magnetic core).									
Mineralization	Minstyle		Chalcopyrite		Pyrite	Molybdenite			
					0.100	2.000			
Disseminated mineralization, mostly replacing chl-ep pseudomorphs of hbl. Also, fracture coatings with coarser (2mm+) pyrite than disseminations.									
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing		
From: 160.500	To: 218.000	Length: 57.500							
Geology		Primary	Secondary	Colour		Weathering			
		IDP1							
Epidote-chlorite and quartz-pyrite altered, fine hbl-fsp porphyry dyke. Finer in grain size than unit above. Contact faulted. Locally, some reddish/maroon colour. More feldspar charged with finer euhedral phenocryst size. 50% 1-3 mm plagioclase, up to 20% fine hbl-bt?. Groundmass is aphanitic, maroon to glassy-grey.									
Alteration	Altcode		Intensity						
		ECS1			2.00				
		QPX1			3.00				
Epidote-chlorite pseudomorphs of hbl, locally ep-chl veinlets cutting magnetite pseudomorphs of hbl. Dissolved carb veinlets cut epi-chl alteration. Locally pinkish envelopes to qtz-py veinlets.									
Mineralization	Minstyle		Chalcopyrite		Pyrite	Molybdenite			
					0.050	3.000			
Disseminated mineralization, mostly replacing chl-ep pseudomorphs of hbl. Also, fracture coatings with coarser (2mm+) pyrite than disseminations. 15 deg TCA fault planes with grounded up pyrite, mo and locally black sph; some slippage planes Mo-only.									
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing		
random oriented qtz-py veinlets with pinkish kfsp envelopes (veinlets 2 mm, env. 2mm). mo-only veinlets, 1mm, no envl. No qtz									

From: 218.000	To: 245.000	Length: 27.000					
Geology	Primary	Secondary	Colour	Weathering			
IDP1 Strongly faulted, epidote-chlorite and quartz-pyrite altered, fine hbl-fsp porphyry dyke, strongly variable sulphide content. It is assumed this is the same rock unit as above, less faulted areas have fine porphyritic texture preserved. A lot of the contorted/whispy textures are represented by fine black pyrite and ep-chl alteration. White fsp? porphyritic dyke at 217-217.6m							
Alteration	Altcode	Intensity					
QPX1 1.00 ECS1 2.00							
Dissolved carb veinlets cut epi-chl alteration where possible to determine. Much of the primary texture seems to be destroyed by the structural deformation, which is emphasized by ep-chl veinlets. Potentially qtz-py altered sections are less soft/more competent and manifest themselves as abundant sharp, hard fragments vs more soft, 'gougy' ep-chl alteration.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
0.100 1.500							
Disseminated mineralization, mostly replacing chl-ep pseudomorphs of hbl. Also, fracture coatings with coarser (2mm+) pyrite than disseminations. 15 deg TCA fault planes with ground up pyrite, mo and locally black sph; some slippage planes Mo-only. Most sulphide is in qtz-py altered sections.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
qtz-py veinlets with ser envelopes at 215, post dating ep-chl alt.							
From: 245.000	To: 278.300	Length: 33.300					
Geology	Primary	Secondary	Colour	Weathering			
IDP1 Quartz-pyrite altered, fine hbl-fsp porphyry dyke. Same as above, significantly less faulted. Alteration intensity is texture destructive.							
Alteration	Altcode	Intensity					
ECS1 1.00 QPX1 4.00							
Dissolved carb veinlets cut epi-chl alteration, also possibly gypsum veins, white, powdery non-reactive to diluted hcl (bladed mineral appearance). Possibly QSP over print characterized by pyritic quartz veins with bleached soft veinlets?							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
0.200 3.500 0.020							
for the most part disseminated pyrite +/- cpy. Some vein hosted py associated with pyritic quartz veins with ser envelopes. Ferromagnesian minerals are replaced either by ep-chl or pyrite. Sulphide highly variable, locally rock appears glassy, quartz rich with abundant (>5% pyrite and trace chalcopyrite).							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
pyritic veinlets (1-2mm); halo 2-4mm, no sulphides in envelopes at 70-80 deg TCA. Vein density 1%, env 5%							

From: 278.300	To: 298.250	Length: 19.950					
Geology	Primary	Secondary	Colour	Weathering			
IPD1 Epidote-chlorite altered, hbl-fsp porphyritic dyke. Maroon to tan coloured porphyritic dyke, 15-30% plagioclase (2-15mm), locally glomerocrystic, and up to 25% ferromagnesian phenocrysts that are replaced by epidote-chlorite (mostly hbl needles that are 2-4mm). 0.5-2cm big patches that are epidote altered. The fsp phenocrysts in this IPD1 are slightly coarser than in IPD1 further uphole. IPD1 is typically a hard unit, uncertain why at this point. This interval potentially contains flow features that are being exaggerated by the alteration. Contains a black mafic dyke at 294.5-295.6m.							
Locally, rounded to subangular fragments of equigranular granodiorite (non-min\$). Upper contact appears to be 5-10cm wide tectonic breccia interval; no chilled margin on either side; sulphide content drops; contact zone has broken fragments of unit below. Both units are extremely hard, potentially IDP1 more conducive to quartz-py alteration and min\$? Epi-Chl affected both units.							
Alteration	Altcode	Intensity					
	ECS1		2.00				
Epidote-chlorite pseudomorphs of hbl, locally with coarse pyrite and chalcopyrite. Appears as if maroon colour is fading into the background as intensity of epi-chl, or mostly dark chlorite, alteration increases. Locally fine fsp? Envelopes to epidote veinlets. Locally hematized magnetite replacing hbl (red rims around magnetic core). Some of the magnetite could be primary. Cut by gypsum veinlets.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
		0.100	1.500				
Disseminations and locally as patches and blebs associated with green and dark chloritic quartz veins; rare chalcopyrite intergrown with pyrite.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing
From: 298.250	To: 301.840	Length: 3.590					
Geology	Primary	Secondary	Colour	Weathering			
	IPD1		Dk Grn				
Strongly quartz-pyrite altered, fine hbl-fsp porphyry dyke. Primary textures are challenging to identify. Possibly IDP1, some chl-altered angular fragments (ferromagnesian phenocrysts) and fsp porphyritic sections. Same IDP1 as above IPD1 of the preceding interval.							
Alteration	Altcode	Intensity					
	QPX1		4.00				
	ECS1		1.00				
Dissolved carb veinlets cut epi-chl alteration, also possibly gypsum veins, white, powdery non-reactive to diluted hcl (bladed mineral appearance). Possibly QSP over print characterized by pyritic quartz veins with bleached soft veinlets?							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
		0.200	3.500	0.020			
for the most part disseminated pyrite +/- cpy. Some vein hosted py associated with pyritic quartz veins with ser envelopes. Ferromagnesian minerals are replaced either by ep-chl or pyrite. Sulphide content highly variable, locally rock appears glassy, quartz rich with abundant (>5% pyrite and trace chalcopyrite).							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing

From: 301.840	To: 332.000	Length: 30.160												
Geology		Primary	Secondary		Colour		Weathering							
		IPD1												
		Epidote-chlorite altered, hbl-fsp porphyritic dyke. Maroon to tan coloured porphyritic dyke, 15-30% plagioclase (2-15mm), locally glomerocrystic, and up to 25% ferromagnesian phenocrysts that are replaced by epidote-chlorite (mostly hbl needles that are 2-4mm). 0.5-2cm big patches that are epidote altered. The fsp phenocrysts in this IPD1 are slightly coarser than in IPD1 further uphole. IPD1 is typically a hard unit, uncertain why at this point. This interval potentially contains flow features that are being exaggerated by the alteration. Locally, contains narrow black, plag phryic mafic dykes.												
Alteration		Altcode	Intensity											
		ECS1												
		Epidote-chlorite pseudomorphs of hbl, locally with coarse pyrite and chalcopyrite. Appears as if maroon colour is fading into the background as intensity of epi-chl, or mostly dark chlorite, alteration increases. Locally fine fsp? Envelopes to epidote veinlets. Locally hematized magnetite replacing hbl (red rims around magnetic core). Some of the magnetite could be primary. Cut by gypsum veinlets.												
Mineralization		Minstyle	Chalcopyrite		Pyrite	Molybdenite								
						0.750								
		Disseminations and locally as patches and blebs associated with green and dark chloritic quartz veins; rare chalcopyrite intergrown with pyrite.												
Veining		Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing						
From: 332.000	To: 344.590	Length: 12.590												
Geology		Primary	Secondary		Colour		Weathering							
		IVC1	IDP1											
		Quartz-pyrite altered, fine intermediate volcanoclastics. Abundant black to green mafic fragments hosted in a very fine/tuffaceous groundmass. Rock is for the most part grey-green. Potentially intruded by dykes IDP1 (?).												
Alteration		Altcode	Intensity											
		ECS1												
		QPX1												
		Alteration is characterized by hardening/silicification of the rock and associated 1-2mm blebs of pyrite, locally coarser patches. Often cubic pyrite. Some of mafic relicts are replaced by pyrite and magnetite. ECS1 postdates QPX1 alteration (ep-chl veinlets cutting py or mag replaced mafics).												
Mineralization		Minstyle	Chalcopyrite		Pyrite	Molybdenite								
					0.200	4.000	0.010							
		Mineralization is disseminated and consists of pyrite blebs and patches ranging from sub- to 4mm, spatially associated with quartz-pyrite alteration and QSP? Alteration. Py+-cpy in quartz veins with bleaching sericite envelopes. Cpy intergrown with pyrite.												
Veining		Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing						

From: 344.590	To: 353.780	Length: 9.190		
Geology	Primary IPD1	Secondary	Colour	Weathering
Epidote-chlorite altered, hbl-fsp porphyritic dyke. Maroon to tan coloured porphyritic dyke, 15-30% plagioclase (2-15mm), locally glomerocrystic, and up to 25% ferromagnesian phenocrysts that are replaced by epidote-chlorite (mostly hbl needles that are 2-4mm). 0.5-2cm big patches that are epidote altered. May contain fgr granodiorite xenoliths and larger feldspars with ferromagnesian mineral inclusion; also possibly rounded fragments of ivc1.				
Alteration	Altcode ECS1	Intensity	2.00	
Epidote-chlorite pseudomorphs of hbl, locally with coarse pyrite. Appears as if maroon colour is fading into the background as intensity of epi-chl, or mostly dark chlorite, alteration increases. Locally fine fsp? Envelopes to epidote veinlets. Locally hematized magnetite replacing hbl (red rims around magnetic core). Some of the magnetite could be primary. Cut by gypsum veinlets.				
Mineralization	Minstyle IVC1	Chalcopyrite	Pyrite 0.100	Molybdenite 1.500
for the most part disseminated pyrite +/- cpy. Some vein hosted py associated with pyritic quartz veins with chl-ep envelopes. Ferromagnesian minerals are replaced either by ep-chl or pyrite. Sulphide content highly variable.				
Veining	Veincode	Percent	Mineralogy	Angleta
From: 353.780	To: 370.630	Length: 16.850		
Geology	Primary IVC1	Secondary IDP1	Colour	Weathering
Quartz-pyrite altered, fine intermediate volcanoclastics. Abundant black to green mafic fragments hosted in a very fine/tuffaceous groundmass. Rock is for the most part grey-green. Potentially intruded by dykes IDP1 (?), and/or faulted GDI1 where quartz phenocrysts can be observed.				
Alteration	Altcode	Intensity		
Mineralization	Minstyle	Chalcopyrite	Pyrite 0.250	Molybdenite 4.000
Mineralization is disseminated and consists of pyrite blebs and patches ranging from sub- to 4mm, spatially associated with quartz-pyrite alteration and QSP? Alteration. Py+/-cpy in quartz veins with bleaching sericite envelopes. Cpy intergrown with pyrite.				
Veining	Veincode	Percent	Mineralogy	Angleta
From: 370.630	To: 375.250	Length: 4.620		
Geology	Primary MDX1	Secondary	Colour	Weathering
Feldspar-phyric mafic dyke. Post-mineral, chilled margins, maroon coloured.				
Alteration	Altcode	Intensity		
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
non min\$ noted.				
Veining	Veincode	Percent	Mineralogy	Angleta

From: 375.250	To: 380.340	Length: 5.090					
Geology	Primary	Secondary	Colour	Weathering			
Epidote-chlorite altered, intermediate porphyry dyke. The top of this unit is a maroon coloured fsp phric (10-15% 1-2mm) andesite, that transitions into a tuffaceous horizon that is intruded by a fsp porphyry of similar composition as the fine grained andesite at the top (30-45% plagioclase 1-20 mm, 15%-20% ferromagnesian minerals, 1-3 mm, that are replaced by chlorite+/-epidote, hornblende+/-bt?+/-px). The section is maroon coloured (hematite staining?), with depth epi-chl alteration increases, but lacks sulphide which is more common further up in the hole. Potentially magma-mixing textures towards base of interval?, sineous, irregular, discontinuous hematite-ep-chl at 60-45 deg TCA; similar textures uphole which were inferred to be related to deformation?. Gypsum veinlets are abundant at random orientations.							
Alteration	Altcode	Intensity					
Epidote-chlorite pseudomorphs of hbl, locally with coarse pyrite. Appears as if maroon colour is fading into the background as intensity of epi-chl, or mostly dark chlorite, alteration increases. Locally fine fsp? Envelopes to epidote veinlets. Locally hematized magnetite replacing hbl (red rims around magnetic core). Some of the magnetite could be primary. Cut by gypsum veinlets.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
trace disseminated py, either in ep-chl pseudomorphs of ferromagnesian minerals or in epi-chl veinlets.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
Abundant gypsum veinlets, often fracture fills (1-2%) or random orientated. 50 deg epi+chl vein fillings, varying in thickness							
From: 380.340	To: 386.370	Length: 6.030					
Geology	Primary	Secondary	Colour	Weathering			
Epidote-chlorite-magnetite/hematite, and locally quartz-pyrite altered, inequigranular granodiorite intrusion. This unit is characterized by interlocking: (a) 20-30% 1-30mm quartz; (b) 55-70% 1-15mm feldspar; and (c) 10-15% 1-10mm ferromagnesian minerals, which are for the most part replaced by epi-chl-mag; some remanent shapes resemble hbl and potentially biotite. Locally sub-porphyritic with vfgr/aphanitic groundmass. Sharp contact with above interval.							
Alteration	Altcode	Intensity					
all ferromagnesian minerals are epi-chl altered, veinlets and fracture fill consists of epi-chl with locally hematitic envelopes.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
rare pyrite associated with epi-chl veinlets and alteration.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing

From: 386.370	To: 407.260	Length: 20.890					
Geology	Primary	Secondary	Colour	Weathering			
Epidote-chlorite altered, hbl-fsp porphyritic dyke. Maroon to tan coloured porphyritic dyke, 15-30% plagioclase (2-15mm), locally glomerocrystic, and up to 25% ferromagnesian phenocrysts that are replaced by epidote-chlorite (mostly hbl needles that are 2-4mm). 0.5-2cm big patches that are epidote altered. May contain fgr granodiorite xenoliths and larger feldspars with ferromagnesian mineral inclusion							
Alteration	Altcode	Intensity					
ECS1 2.00 Epidote-chlorite pseudomorphs of hbl, locally with coarse pyrite. Appears as if maroon colour is fading into the background as intensity of epi-chl, or mostly dark chlorite, alteration increases. Locally fine fsp? Envelopes to epidote veinlets. Locally hematized magnetite replacing hbl (red rims around magnetic core). Some of the magnetite could be primary. Cut by gypsum veinlets. Unit appears somewhat broken up healed by a fine network of epi-chl with locally 1-3 cm wide epi-chl veins with pyrite.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
0.500 Pyrite content very variable. No disseminations and only present where up to 3cm wide epi-chl alteration zones or fine networks of veinlets are present.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
epi-chl alteration and veinlets are cut by clear irregular 3mm wide quartz only veinlets.							
From: 407.260	To: 452.000	Length: 44.740					
Geology	Primary	Secondary	Colour	Weathering			
GDI1 Epidote-chlorite-magnetite/hematite, inequigranular, medium grained granodiorite intrusion; sulphides are restricted to a few quartz-veins. This unit is characterized by interlocking: (a) 20-30% 1-30mm quartz; (b) 55-70% 1-15mm feldspar; and (c) 10-15% 1-10mm ferromagnesian minerals, which are for the most part replaced by epi-chl-mag; some remanent shapes resemble hbl and potentially biotite. Locally sub-porphyritic with vfgr/aphanitic groundmass.							
Alteration	Altcode	Intensity					
ECS1 1.00 in addition to epi-chl+/-magnetite alteration of ferromagnesian minerals, there is a fine network of epi-chl-magn veinlets. There is also a weak, alteration assemblage characterized by poorly defined magnetite or quartz-magnetite veinlets.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
0.500 0.010 Mineralization is confined to areas of up to 3 cm wide quartz veins, that are irregular, discontinuous. Within these veins there are blebs or pyrite and locally molybdenite, rare chalcopyrite.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
most observed veins or rather veinlets are magneite and epi-chl-magnetite; highly irregular; 60-80 deg TCA; locally culminating in up to 5cm areas of quartz-magnetite; also random orientated magnetite-epi-chl veinlets, post-dating magnetite (-quartz) vein							
From: 452.000	To: 477.820	Length: 25.820					
Geology	Primary	Secondary	Colour	Weathering			
GDI1 Epidote-chlorite-magnetite, inequigranular, medium grained granodiorite intrusion. Same as above, no sulphide.							
Alteration	Altcode	Intensity					
ECS1 3.00 in addition to epi-chl+/-magnetite alteration of ferromagnesian minerals, there is a fine network of epi-chl-magn veinlets. There is also an alteration assemblage characterized by (poorly) defined magnetite or quartz-magnetite veinlets and alteration bands, which might be overprinted by epi-chl-magnetite. Stronger magnetite alteration in either alteration assemblage as opposed to interval above. Rock is hard, dense, and locally magnetite-quartz alteration is texture destructive; possibly some fine brown biotite? But rare.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
No sulphide noted.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing

From: 477.820	To: 487.120	Length: 9.300		
Geology	Primary	Secondary	Colour	Weathering
Epidote-chlorite-magnetite altered, hbl-fsp porphyry dyke. 50-60% 1-3mm fsp (mostly plag?), 15-25% <1-2mm ferromagnesian minerals (hornblende >> bt); set in a aphanatic groundmass. Rock is maroon/reddish coloured. Intruded by dark, fsp phryic dyke at 480.08-484.27m, irregular shaped, locally broken, fsp (1-3mm) 10-15%; includes fragments of QMI1; intruded at 35-45 deg TCA.				
Alteration	Altcode	Intensity		
Weak epi-chl-magnetite alteration, epi-chl-mag pseudomorphs after hornblende. Also fine veinlets of epi+-chl veinlets.				
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
none noted				
Veining	Veincode	Percent	Mineralogy	Angletca
From: 487.120	To: 503.000	Length: 15.880		
Geology	Primary	Secondary	Colour	Weathering
Weak chorite-magnetite+/-epidote altered, fine grained, equigranular quartz-monzonite to quartz-monzodiorite intrusion. This unit is intruded by a series of fine pinkish aplite dykes, and a unit of the same colour that has 5% very fine feldspar phenocrysts; sharp contacts; possibly up to 20cm inclusions of GDI1.				
Alteration	Altcode	Intensity		
Weak chl-magnetite+/-epi alteration, chl-mag pseudomorphs after hornblende. Also fine veinlets of epi+-chl veinlets.				
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
Veining	Veincode	Percent	Mineralogy	Angletca

Geology Log (JOY) - Amarc Resources Ltd.

Project:

Hole ID: JY17002



Drill Core Samples		UTM NAD 83 Zone 9		Direction/Length		Drill Hole Information					
Logged By	Michael Galicki	Easting	637,071.00	Azimuth	0.00°	Date Start	22-Aug-2017				
Laboratory	Actlabs Kamloops	Northing	6,347,488.00	Inclination	-45.00°	Date End	28-Aug-2017				
File No.	A17-09876	Elevation	1,423.00	Length	507.20m	Operator	Amarc Resources Ltd.				
Comment											

Collar and Down Hole Survey						
Depth	Azimuth	Dip	Temp	Mag.	Roll	Method
0.000	0.00	-45.00				Collar
30.200	352.50	-45.20	14.8	5766	97.3	EZ-Shot
51.200	352.50	-45.30	20.4	5701	95.6	EZ-Shot
102.200	353.10	-45.40	13.5	5715	121	EZ-Shot
150.200	354.60	-45.30	13.9	5698	272.3	EZ-Shot
201.200	355.90	-45.30	21.8	5714	12.5	EZ-Shot
252.200	358.40	-44.50	15.1	5726	355.8	EZ-Shot
300.200	359.40	-43.90	11.4	5690	350.5	EZ-Shot
351.200	1.90	-43.50	14.4	5694	354.1	EZ-Shot
402.200	3.90	-43.30	11	5692	65.4	EZ-Shot
450.200	5.70	-42.30	17.3	5708	52.8	EZ-Shot
501.200	6.70	-42.50	9.7	5713	54.4	EZ-Shot

Drilling Bit Size			
Bit Size	From	Tom	Length
Casing	.00	21.20	21.20
NQ	21.20	507.20	486.00

Alteration Code	LithoCode 1
QPX1: Quartz-pyrite	OVB1: Casing
ECS1: Epidote-Chlorite-Pyrite	IVF1: Porphyritic andesite flows with interbed
Alteration Intensity	IVC1: Ash- to lapilli-ash tuffaceous andesite
1: Incipient	IPD1: Intermediate porphyritic dyke
2: Weak	IDP1: Intermediate porphyry dyke
3: Moderate	GDI1: Inequigranular granodiorite to quartz-mo
4: Strong	MDX1: Mafic dykes
5: Intense	QMI1: Equigranular quartz-monzonite to quartz-
Colour	FVC1: Intermediate to felsic volcanics
Black: Black	IVF2: Intermediate volcani/pyroclastics
Dk Grey: Dark Grey	IDP2: Intermediate porphyry dyke
Md Grey: Medium Grey	LithologyFac1
Lt Grey: Light Grey	PORP: Porphyry (>50% phenocrysts)
Dk Grn: Dark Green	PTEX: Porphyritic (<50% phenocrysts)
Md Grn: Medium Green	SERI: Seriate
Lt Grn: Light Green	HIAT: Hiatal
Tan: Tan or buff	EQUI: Equigranular
White: White	APHA: Aphanitic
Dk Brn: Dark Brown	PEGM: Pegmatitic
Md Brn: Medium Brown	Weathering
Lt Brn: Light Brown	Fresh: No visible weathering
SnP: 'Salt and pepper'	WkFrac: Some fractures; no pervasive
Pink: Pink	StFrac: Most fractures; no pervasive
Purple: Purple	WkPerv: Weak pervasive + fractures
Blue: Blue	MdPerv: Moderate pervasive + fractures
Maroon: Maroon	StPerv: Strong pervasive + fractures
Structure Gouge	Leached: Completely leached
0: Not applicable	
1: (0-20%)	
2: (21-40%)	
3: (41-60%)	
4: (>60%)	
Structure Type	
Bfl: Brittle fault	
Hfl: Healed fault	
Rub: Rubble	
HS: High-Strain Zone	
Brx: Breccia	
Slk: Slickensides	
Cnt: Contact	
Bed: Bedding	
Jnt: Joint	
Fol: Foliation	
Cat: Cataclasite	
Myl: Mylonite	
Vein Modifier	
IREG: irregular	
STRA: straight	
SINE: sineous, undulated	

From: 0.000	To: 21.200	Length: 21.200												
Geology	Primary OVB1	Secondary	Colour		Weathering									
Casing.														
Alteration	Altcode	Intensity												
Mineralization	Minstyle	Chalcopyrite		Pyrite	Molybdenite									
Veining	Veincode	Percent	Mineralogy	Angleca	EnvPct	EnvMin	Timing							
From: 21.200	To: 48.200	Length: 27.000												
Geology	Primary IVC1	Secondary	Colour		Weathering									
Strongly faulted, chlorite-magnetite altered, intermediate volcaniclastics. Primary texture are for the most part destroyed; locally green 2-3mm fragmental clasts are noted. In some broken pieces a fsp phryic/porphyritic texture might be preserved.														
Alteration	Altcode	Intensity												
Rockmass is chlorite altered and consists in large parts of broken small chunks with locally significant gouge/clay. Fracture coatings are black to purple and are magnetic (hematite after magnetite).														
Mineralization	Minstyle	Chalcopyrite		Pyrite	Molybdenite									
Fine (<1-2mm) fine disseminations of pyrite, no apparent association with ferromagnesian minerals.														
Veining	Veincode	Percent	Mineralogy	Angleca	EnvPct	EnvMin	Timing							
From: 48.200	To: 60.380	Length: 12.180												
Geology	Primary IVC1	Secondary	Colour		Weathering									
Chlorite+/-magnetite+/-epodote altered, intermediate volcaniclastics. Ash to lapilli-ash tuff; potential welding texture emphasized by deformation (unit is remarkably competent)? Unit has a grey-green fgr groundmass hosting 1-3 mm black, chlorite altered fragments; locally feldspar crystals or potential interbeds of fsp-porphyritic andesite?														
Alteration	Altcode ECS1	Intensity												
ferromagnesian sites/minerals are chlorite altered, locally/rare with epidote. Unit is magnetic, some is veinlet hosted (chlorite veinlets with magnetite), some appears to be either a function of primary composition or replacement of ferromagnesian sites by magnetite. Carbonate+/-gypsum veinlets are somewhat abundant (1%) with no sulphide; irregular, discontinuous and contorted.														
Mineralization	Minstyle	Chalcopyrite		Pyrite	Molybdenite									
disseminated pyrite in groundmass and locally in black ferromagnesian sites, but less common.														
Veining	Veincode	Percent	Mineralogy	Angleca	EnvPct	EnvMin	Timing							

From: 60.380	To: 67.130	Length: 6.750					
Geology	Primary MDX1	Secondary	Colour	Weathering			
Maroon coloured, mafic dyke. Does not exhibit the same deformation as unit above and below. Upper irregular intrusive chilled contact at 45 TCA; lower sharp faulted contact at 60 TCA. Hbl <1-2mm, <1%; 1mm <1% biotite; fsp (white plag?) 2% , <1-3mm; set in red to maroon coloured vfgr groundmass.							
Alteration	Altcode	Intensity					
locally carbonate veinlets with narrow (few mm) rare epidote halos.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
none noted.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing
From: 67.130	To: 75.510	Length: 8.380					
Geology	Primary IVC1	Secondary	Colour	Weathering			
Chlorite+/-magnetite+/-epodite altered, intermediate volcaniclastics. Ash to lapilli-ash tuff; potential welding texture emphasized by deformation (unit is remarkably competent)? Unit has a grey-green fgr groundmass hosting 1-3 mm black, chlorite altered fragments; locally feldspar crystals or potential interbeds of fsp-porphyritic andesite?							
Alteration	Altcode	Intensity					
QPX1							
ECS1							
ferromagnesian sites/minerals are chlorite altered, locally/rare with epidote. Unit is magnetic, some is veinlet hosted (chlorite veinlets with magnetite), some appears to be either a function of primary composition or replacement of ferromagnesian sites by magnetite. Carbonate+/-gypsum veinlets are somewhat abundant (1%) with no sulphide; irregular, discontinuous and contorted. Rare, randomly orientated white veinlets locally reddish in colour with orange envelopes. Locally quartz-pyrite altered where rockmass becomes dark grey, no primary texture preservation							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
disseminated pyrite in groundmass and locally in black ferromagnesian sites, but less common.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing
1%							
From: 75.510	To: 81.480	Length: 5.970					
Geology	Primary MDX1	Secondary	Colour	Weathering			
Maroon coloured, mafic dyke. Does not exhibit the same deformation as unit above and below. Upper and lower contact at 60 deg TCA, faulted with minor gouge. Hbl <1-2mm, <1%; 1mm <1% biotite; fsp (white plag?) 2% , <1-3mm; set in red to maroon coloured vfgr groundmass.							
Alteration	Altcode	Intensity					
locally carbonate veinlets with narrow (few mm) rare epidote halos.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
none noted.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing

From: 81.480	To: 84.280	Length: 2.800									
Geology		Primary	Secondary	Colour	Weathering						
		IVF1									
Faulted, chlorite+/-magnetite altered, intermediate volcanic flow. Appears similar to IDP1 in J17001, seriate fsp porphyritic (5-10%, 1-10mm); however upon further investigations this is likely a phryic flow as found further downhole. Unit is faulted, primary textures are masked, many rotated rock fragments with green chlorite-clay cement.											
Alteration	Altcode	Intensity									
	ECS1				2.00						
ferromagnesian sites/minerals are chlorite altered. Unit is magnetic, some is veinlet hosted (chlorite veinlets with magnetite), some appears to be either a function of primary composition or replacement of ferromagnesian sites by magnetite. Carbonate+/-gypsum veinlets are somewhat abundant (1%) with no sulphide; irregular, discontinuous and contorted. R											
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite							
				1.500							
disseminated pyrite in groundmass and locally in black ferromagnesian sites, but less common.											
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing				
From: 84.280	To: 137.780	Length: 53.500									
Geology		Primary	Secondary	Colour	Weathering						
		IVC1				Md Grey					
Weak to moderate quartz-pyrite altered, intermediate volcanics. Primary texture are locally preserved with chlorite altered and/or pyritized 2-3mm fragmentals. In some broken pieces a fsp phryic/porphyritic texture might be preserved; potentially flow interbeds or porphyritic intrusions? Locally faulted with contorted white carbonate veins (random 1-5mm; discontinuous). Ash to lapilli ash tuffaceous section (Duncan member?). Towards lower contact quartz-veinlets+/-pyrite and brown to dark orange (kspar?) at 40 deg TCA, similar orientation to deformation.											
Alteration	Altcode	Intensity									
	QPX1				3.00						
vein abundance is low however the alteration intensity is moderate with >2% disseminated or patchy pyrite and very minor amounts of vein-hosted pyrite (associated with some QSP alteration?). Ferromagnesian sites are for the most part chlorite altered.											
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite							
				3.000							
disseminated pyrite in groundmass and in bck ferromagnesian sites; locally pyritic quartz veinlets with sericite envelopes.											
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing				
0.5% straight pyrite-quartz veinlets with sericite veinlets (env%=1.5%).											

From: 137.780

To: 159.000

Length: 21.220

Geology	Primary	Secondary	Colour	Weathering			
	IVC1						
Weak to moderate chlorite-epidote altered, intermediate volcanics. Upper depositional contact at 45 deg TCA. Unit is more darker green in colour, with occasional patches of epidote and thicker quartz veins. Fgr rockmass, locally appears as if there are rounded and angular more green clasts (~148-150m) that are more pyritic than the rest (alteration texture?). May contain either orange coloured fsp phryic flows or narrow dykelets with no well defined contacts.							
Alteration	Altcode	Intensity					
	ECS1		2.00				
in comparison to the unit above, the alteration might reflect a change in primary composition of the rock; this unit is possibly slight more mafic?; however there appear to be harder/silicified sections as well, commonly associated with light brown to tan envelopes to quartz veinlets or generally tan to light brown alteration patches or section with no obvious vein association. what appear to be irregular shaped dark green fragments are chlorite altered and typically contain pyrite. Locally there are irregular, sineous quartz-carb veinlets with epidote and coarse pyrite in the vein and in the vein envelope. Abundant random oriented hairline carbonate veinlets, that are locally reddish/purple (anhydrite?). Locally up to 3% coarse pyrite in quartz veins with sericite-pyrite envelopes (good example at 155.45m).							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			3.000				
disseminated pyrite (<1-1mm) in groundmass or in dark green chloritized fragments. In somewhat more prominent quartz veins pyrite is much coarser (2mm+).							
Veining	Veincode	Percent	Mineralogy	Angleca	EnvPct	EnvMin	Timing

From: 159.000

To: 166.000

Length: 7.000

Geology	Primary	Secondary	Colour	Weathering			
	IVC1	IVF1					
Quartz-pyrite and epidote-chlorite-magnetite altered, intermediate volcanics. Fgr rockmass, locally appears as if there are rounded and angular more green clasts (~164-166m) that are more pyritic than the rest and also contain magnetite. Middle of this interval is characterized by a strongly coarse pyritic zone with quartz-sericite; no well defined vein. Top of interval contains fsp phryic IVF1 variety with seriate fsp porphyritic texture (<20% fsp, 2-10m); no clear defined contacts, transitions into what appears to be IVC1 in area of pyritic (quartz-) epidote veins.							
Alteration	Altcode	Intensity					
	QPX1		4.00				
	ECS1		2.00				
texture destructive quartz-pyrite alteration of the rockmass grading into more ep-chl-magn-py alteration towards lower contact (ep-chl-magn+py pseudomorphs of mafic fragments? Set in a red fgr groundmass together with feldspar fragments and crystals).							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			3.500				
disseminated pyrite (<1-1mm) in groundmass or in dark green chloritized fragments. In somewhat more prominent quartz veins pyrite is much coarser (2mm+).							
Veining	Veincode	Percent	Mineralogy	Angleca	EnvPct	EnvMin	Timing

From: 166.000	To: 224.300	Length: 58.300		
Geology	Primary	Secondary	Colour	Weathering
IVF1 Red to pink, epidote-chlorite altered, strongly magnetic fsp-hbl phryic intermediate flow. 1-10mm; 25-40% fsp, mostly plag; 10-20% ferromagnesian minerals: <1-1% bt 1-2mm, 15-20% hbl 2-10mm; set in a fine quartz-feldspar matrix. Unit is magnetic, epi-chl-magn pseudomorphs after hbl. Appeared originally as IDP1, but more likely to be flow.				
Alteration	Altcode	Intensity		
ECS1 Ferromagnesian minerals are for the most part chlorite+/-epidote altered, locally magnetite (hbl); bt intact?				
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
none noted.				
Veining	Veincode	Percent	Mineralogy	Angleca
EnvPct EnvMin Timing				
From: 224.300	To: 303.200	Length: 78.900		
Geology	Primary	Secondary	Colour	Weathering
IVF1 Weak epidote-chlorite and strong quartz-pyrite altered, non-magnetic fsp-hbl phryic intermediate flow. Unit is likely the same as logged above, it transitions from a red colour to grey-green to dark dark grey where the primary textures have been washed out. Just below upper interval boundary unit potentially finer grained with intermittent coarser grained patches. Upper intercept also less quartz-pyrite altered. Section is intruded by rare narrow (<1m, mostly 10-20cm) dark green mafic dykes. Over long stretches the primary textures are masked by intense quartz-pyrite alteration; it is assumed the andesite?porphyry is present throughout the entire section; ghostly feldspar phenocryst shapes are preserved in almost every box, however there might be tuffaceous intermediate volcanics (or finer variaty of the porphyry, border/edge?).				
Alteration	Altcode	Intensity		
QPX1 ECS1 4.00 1.00				
Compared to interval above, this section is not red and magnetic. It transitions into a dark green to grey rockmass with texture destructive alteration that is characterized by a hard, dark grey to glassy 'wash' associated with fine pyrite disseminations and patches (up to 1-2 cm). Ghostly feldspar shapes in abundance similar to less altered IVF1 above, resembling the porphyritic/porphyry texture, can be found in every box; thus it is inferred that the entire section is the same unit. Within the grey-pyritic wash are irregular to rounded chloritized patches with disseminated pyrite.				
Post-dating all alteration are white, glassy, soft, non-fizzing, veinlets (anhydrite?), that locally are darker/purplish lacking any apparent envelopes and sulphides. Commonly they form a 'crackle' network in the altered rockmass. Best preserved at 250-260m.				
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
4.000 Fine disseminated pyrite (<1mm) within either remanent chlorite replaced (mafic?) fragments and disseminated to patchy (up to 2-3 cm patches with <1mm 10-15% vol pyrite) in quartz-pyrite altered sections.				
Veining	Veincode	Percent	Mineralogy	Angleca
EnvPct EnvMin Timing				

From: 303.200	To: 363.300	Length: 60.100					
Geology	Primary	Secondary	Colour	Weathering			
IVF1 Weak epidote-chlorite and strong quartz-pyrite altered, non-magnetic fsp-hbl phryic intermediate flow. Unit is likely the same as logged above. Section is intruded by rare narrow (<1m, mostly 10-20cm) dark green mafic dykes. Over long stretches the primary textures are masked by intense quartz-pyrite alteration; it is assumed the andesite? Porphyry (Metsantan?) is present throughout the entire section; ghostly feldspars phenocryst shapes are preserved in almost every box, however there might be tuffaceous intermediate volcanics (or finer variaty of the porphyry, border/edge?).							
Alteration							
Altcode	Intensity						
QPX1	4.00						
ECS1	1.00						
Compared to interval above, this section is not red and magnetic. It transitions into a dark green to grey rockmass with texture destructive alteration that is characterized by a hard, dark grey to glassy 'wash' associated with fine pyrite disseminations and patches (up to 1-2 cm). Ghostly feldspar shapes in abundance similar to less altered IVF1 above, resembling the porphyritic/porphyry texture, can be found in every box; thus it is inferred that the entire section is the same unit. Within the grey-pyritic wash are irregular to rounded chloritized patches with disseminated pyrite.							
Post-dating all alteration are white, glassy, soft, non-fizzing, veinlets (anhydrite?), that locally are darker/purplish lacking any apparent envelopes and sulphides. Commonly they form a 'crackle' network in the altered rockmass. Abundance is less than in previous interval.							
Locally pale brown to orange coloured patches interwoven with quartz-pyrite 'wash'; it is somewhat harder than the quartz-pyrite alteration, which potentially might have some sericite associated with it.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
		0.050	4.000	0.010			
Fine disseminated pyrite (<1mm) within either remanent chlorite replaced (mafic?) fragments and disseminated to patchy (up to 2-3 cm patches with <1mm 10-15% vol pyrite) in quartz-pyrite altered sections. Also fine disseminated pyrite in chloritized 1-5cm patches. Locally, fine disseminated black sphalerite associated with fine pyrite (both <1-1mm grains). Mo occurs in either poorly defined pyrite-quartz veins that have been faulted or as rare disseminations rimming strongly pyritic and chloritized patches with no clear vein association (photo taken with iphone).							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
From: 363.300	To: 400.050	Length: 36.750					
Geology	Primary	Secondary	Colour	Weathering			
IVF1 Epidote-chlorite altered, fsp-hbl phryic intermediate flow. Unit is likely the same as logged above. Less texture destructive alteration, red to maroon colour, change in colour and alteration is gradational and associated with less pyrite.							
Alteration							
Altcode	Intensity						
ECS1	2.00						
QPX1	1.00						
Compared to interval above, this section is more red and magnetic. It transitions into a red to purple rockmass where the primary texture is preserved. Ghostly feldspar shapes in abundance similar to less altered IVF1 above, resembling the porphyritic/porphyry texture, can be found in every box; some are red coloured. This rock resembles rocks at surface between JY17002 and JY17003. Epi-chl+/-magn alteration of ferromagnesian minerals (mostly hbl). Post-dating the epi-chl+/-magn altn are pyritic quartz veins (15-30 deg TCA) with bleached, potentially sericitic, envelopes; ferromagnesian minerals are chlorite altered in the envelopes (QSP alteration). Cross-cutting all aforementioned veins and alteration are carbonate veinlets, often appear to be tension cracks, but dominant sets are at 60-80 deg TCA.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			2.500	0.010			
Fine disseminated pyrite (<1mm) within either remanent chlorite replaced (mafic?) fragments and disseminated to patchy (up to 2-3 cm patches with <1mm 10-15% vol pyrite) in more quartz-pyrite altered sections. Locally up to 1% galena present as small slivers or patchea rimming calcitic fragments.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing

From: 400.050

To: 420.200

Length: 20.150

Geology	Primary	Secondary	Colour	Weathering		
	IVF1	IVC1				
Weak epidote-chlorite and strong quartz-pyrite altered, non-magnetic fsp-hbl phryic intermediate flow. Over long stretches the primary textures are masked by intense quartz-pyrite alteration; it is assumed the andesite? Porphyry (Metsantan?) is present throughout the entire section; ghostly feldspars phenocryst shapes are preserved in almost every box, however there might be tuffaceous intermediate volcanics (or finer variaty of the porphyry, border/edge?). e as above.						
Alteration	Altcode	Intensity				
Compared to interval above, this section is not red and magnetic. It transitions into a dark green to grey rockmass with texture destructive alteration that is characterized by a hard, dark grey to glassy 'wash' associated with fine pyrite disseminations and patches (up to 1-2 cm). Ghostly feldspar shapes in abundance similar to less altered IVF1 above, resembling the porphyritic/po						
Post-dating all alteration are white, glassy, soft, weakly-fizzing, veinlets (calcite, potentially ankerite?), that locally are darker/purplish lacking any apparent envelopes and sulphides. Commonly they form a 'crackle' network in the altered rockmass. Abundance is less than in previous interval.						
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite		
			3.500			
Fine disseminated pyrite (<1-1mm) within either remanent chlorite replaced (mafic?) fragments and disseminated to patchy (up to 2-3 cm patches with <1mm 10-15% vol pyrite) in quartz-pyrite altered sections. Also fine disseminated pyrite in chloritized 1-5cm patches.						
Locally, fine disseminated black sphalerite associated with fine pyrite (both <1-1mm grains). Mo occurs in either poorly defined pyrite-quartz veins that have been faulted or as rare disseminations rimming strongly pyritic and chloritized patches with no clear vein association (photo taken with iphone).						
Veining	Veincode	Percent	Mineralogy	Angletca		
EnvPct	EnvMin	Timing				

From: 420.200

To: 474.200

Length: 54.000

Geology	Primary	Secondary	Colour	Weathering		
	IVF1	IVC1				
Weak to moderate chlorite-magnetite+/-epidote and quartz-pyrite altered, intermediate volcanic flows and volcaniclastics. This interval represents a volcanic pile of intermediate volcanic flows interbedded with fine volcaniclastics. The flows are weakly fsp phryic (5-10%) with 20-30% ferromagnesian minerals, which are replaec by chlorite-magnetite+/- epidote, hosted in an aphanatic groundmass. Locally strong texture destructive quartz-pyrite alteration. Volcaniclastics are ash to lapilli-asg tuffs, mostly non-welded with a grey vgr matrix hosting <1-2 mm broken chloritized fragments or fsp crystals and up to 6cm rounded or angular fragments of flows or other volcaniclastics (good example at 466.5m). (Pseudo-) bedding at 60-70 deg TCA.						
Alteration	Altcode	Intensity				
	QPX1	2.00				
	ECS1	3.00				
Interval was altered by at least two events; (1) chlorite-magnetite+/-epidote; and (2) quartz?-pyrite.						
Ferromagnesian minerals (mostly hbl, possibly some px) are poorly preserved and replaced by dark chlorite and magnetite, locally epidote. Fsp quite often replaced by epidote. Groundmass has a grey to pale brown colour.						
Post-dating chlorite-magnetite+/-epidote is quartz-pyrite, characterized by a grey, locally glassy, 'wash' associated with hard rock and higher abundance of disseminated pyrite.						
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite		
			3.000			
Fine disseminated pyrite (<1-1mm) within either remanent chlorite replaced (mafic?) fragments and disseminated to patchy (up to 2-3 cm patches with <1mm 10-15% vol pyrite) in quartz-pyrite altered sections. Also fine disseminated pyrite in chloritized 1-5cm patches.						
Locally, fine disseminated black sphalerite associated with fine pyrite (both <1-1mm grains). Mo occurs in either poorly defined pyrite-quartz veins that have been faulted or as rare disseminations rimming strongly pyritic and chloritized patches with no clear vein association (photo taken with iphone). Some late carbonate veinlets (1-2mm) have patches of black to honey brown sphalerite.						
Veining	Veincode	Percent	Mineralogy	Angletca		
EnvPct	EnvMin	Timing				

From: 474.200

To: 507.200

Length: 33.000

Geology	Primary	Secondary	Colour	Weathering			
	IVC1	IVF1					
			Weak to moderate chlorite-magnetite+/-epidote and quartz-pyrite altered, intermediate volcanic flows and volcaniclastics. Same as above but more volcaniclastics. This interval represents a volcanic pile of intermediate volcanic flows interbedded with fine volcaniclastics. The flows are weakly fsp phryic (5-10%) with 20-30% ferromagnesian minerals, which are replaced by chlorite-magnetite+/- epidote, hosted in an aphanitic groundmass. Locally strong texture destructive quartz-pyrite alteration. Volcaniclastics are ash to lapilli-asg tuffs, mostly non-welded with a grey vfgr matrix hosting <1-2 mm broken chloritized fragments or fsp crystals and up to 6cm rounded or angular fragments of flows or other volcaniclastics. Primary bedding features at 45-55 deg TCA.				
Alteration	Altcode	Intensity					
	ECS1		3.00				
		Interval was altered by at least two events; (1) chlorite-magnetite+/-epidote; and (2) quartz?-pyrite. Ferromagnesian minerals (mostly hbl, possibly some px) are poorly preserved and replaced by dark chlorite and magnetite, locally epidote. Fsp quite often replaced by epidote. Groundmass has a grey to pale brown colour. Pale pistachio green veinlets (<1-2cm) with carbonate and quartz and rare pyrite-sphalerite. Post-dating chlorite-magnetite+/-epidote is quartz-pyrite, characterized by a grey, locally glassy, 'wash' associated with hard rock and higher abundance of disseminated pyrite.					
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			2.000	0.005			
		Fine disseminated pyrite (<1mm) within either remanent chlorite replaced (mafic?) fragments and disseminated to patchy (up to 2-3 cm patches with <1mm 10-15% vol pyrite) in quartz-pyrite altered sections. Also fine disseminated pyrite in chloritized 1-5cm patches.					
		Locally, fine disseminated black sphalerite associated with fine pyrite (both <1mm grains). Mo occurs in either poorly defined pyrite-quartz veins that have been faulted or as rare disseminations rimming strongly pyritic and chloritized patches with no clear vein association (photo taken with iphone). Some late carbonate veinlets (1-2mm) have patches of black to honey brown sphalerite.					
		Most prominent veins are pale pistachio green veinlets (<1-2cm) with carbonate and quartz and rare pyrite; most disseminated to patchy sphalerite is associated with these veinlets and often found along the contact with the wall rock. Rare Mo and Cp as fine disseminations associated with epidote-carbonate+/-quartz veinlets.					
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing

Geology Log (JOY) - Amarc Resources Ltd.

Project:

Hole ID: JY17003



Drill Core Samples		UTM NAD 83 Zone 9		Direction/Length		Drill Hole Information					
Logged By	Michael Galicki	Easting	636,809.00	Azimuth	42.00°	Date Start	29-Aug-2017				
Laboratory	Actlabs Kamloops	Northing	6,348,121.00	Inclination	-45.00°	Date End	29-Aug-2017				
File No.	A17-10227	Elevation	1,710.00	Length	517.00m	Operator	Amarc Resources Ltd.				
Comment	JY17003 is coring rocks that underlie an area of anomalous Cu concentrations in soils and is targeting an IP chargeability at depth on IP line 7075.										

Collar and Down Hole Survey						
Depth	Azimuth	Dip	Temp	Mag.	Roll	Method
0.000	42.00	-45.00				Collar
40.000	38.90	-44.80	15	5799	344.1	EZ-Shot
52.000	40.10	-45.50	11.6	5748	51.5	EZ-Shot
100.000	40.00	-45.90	7.5	5735	259.9	EZ-Shot
151.000	41.20	-46.80	5.9	5738	241.6	EZ-Shot
202.000	44.40	-46.50	15.5	5738	97.1	EZ-Shot
250.000	43.50	-45.40	15.7	5696	359.7	EZ-Shot
301.000	48.20	-45.10	13.5	5723	73.8	EZ-Shot
352.000	50.30	-44.80	12.3	5690	191.5	EZ-Shot
400.000	51.20	-44.00	15.2	5716	28.4	EZ-Shot
451.000	54.20	-43.30	8.4	5708	68.3	EZ-Shot
499.000	55.90	-42.80	14.4	5720	41.4	EZ-Shot

Drilling Bit Size			
Bit Size	From	To	Length
Casing	.00	10.00	10.00
NQ	10.00	500.00	490.00

Alteration Code	LithoCode 1
QPX1: Quartz-pyrite	OVB1: Casing
ECS1: Epidote-Chlorite-Pyrite	IVF1: Porphyritic andesite flows with interbed
Alteration Intensity	IVC1: Ash- to lapilli-ash tuffaceous andesite
1: Incipient	IPD1: Intermediate porphyritic dyke
2: Weak	IDP1: Intermediate porphyry dyke
3: Moderate	GDI1: Inequigranular granodiorite to quartz-mo
4: Strong	MDX1: Mafic dykes
5: Intense	QMI1: Equigranular quartz-monzonite to quartz-
Colour	FVC1: Intermediate to felsic volcaniclastics
Black: Black	IVF2: Intermediate volcani/pyroclastics
Dk Grey: Dark Grey	IDP2: Intermediate porphyry dyke
Md Grey: Medium Grey	LithologyFac1
Lt Grey: Light Grey	PORP: Porphyry (>50% phenocrysts)
Dk Grn: Dark Green	PTEX: Porphyritic (<50% phenocrysts)
Md Grn: Medium Green	SERI: Seriate
Lt Grn: Light Green	HIAT: Hiatal
Tan: Tan or buff	EQUI: Equigranular
White: White	APHA: Aphanitic
Dk Brn: Dark Brown	PEGM: Pegmatitic
Md Brn: Medium Brown	Weathering
Lt Brn: Light Brown	Fresh: No visible weathering
SnP: 'Salt and pepper'	WkFrac: Some fractures; no pervasive
Pink: Pink	StFrac: Most fractures; no pervasive
Purple: Purple	WkPerv: Weak pervasive + fractures
Blue: Blue	MdPerv: Moderate pervasive + fractures
Maroon: Maroon	StPerv: Strong pervasive + fractures
Structure Gouge	Leached: Completely leached
0: Not applicable	
1: (0-20%)	
2: (21-40%)	
3: (41-60%)	
4: (>60%)	
Structure Type	
Bfl: Brittle fault	
Hfl: Healed fault	
Rub: Rubble	
HS: High-Strain Zone	
Brx: Breccia	
Slk: Slickensides	
Cnt: Contact	
Bed: Bedding	
Jnt: Joint	
Fol: Foliation	
Cat: Cataclasite	
MyI: Mylonite	
Vein Modifier	
IREG: irregular	
STRA: straight	
SINE: sineous, undulated	

From: 0.000	To: 10.000	Length: 10.000								
Geology		Primary	Secondary	Colour		Weathering				
		OVB1								
Overburden. Casing depth is 30.5 as per drillers, however there is evidence to suggest that bed-rock starts at 10m.										
Alteration	Altcode		Intensity							
Mineralization	Minstyle		Chalcopyrite		Pyrite		Molybdenite			
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing			
From: 10.000	To: 22.000	Length: 12.000								
Geology		Primary	Secondary	Colour		Weathering				
		IVC1	FVC1	Dk Grn		WkFrac				
Faulted, chlorite+/-epidote altered, maroon coloured, intermediate volcaniclastics. Around the drill colour for JY17003 angular boulders maroon coloured, fsp phryic dacite and associated volcaniclastics are very similar to what is present in this interval. Interval is faulted and includes are more felsic volcaniclastic unit around 17.5-19m and will be sampled separately. Unit has a maroon coloured vfgr green to maroon coloured to locally almost aphanitic maroon coloured groundmass hosting chl+/-ep+/-magnetite pseudomorphs of hbl and ghostly shapes of plagioclase that are slightly brownish coloured; abundance varies. Magnetite pseudomorphs of biotite are purple.										
Alteration	Altcode		Intensity							
		ECS1			3.00					
hbl is chlorite+/-epidote altered, locally pseudomorphs also include magnetite. Rare biotite is altered to magnetite (purple). Groundmass is a mix of a green to maroon coloured 'wash'; brown to light colour might stem from magnetite alteration?										
Mineralization	Minstyle		Chalcopyrite		Pyrite	Molybdenite				
				0.100	0.500					
<1mm disseminations of pyrite in the groundmass, often associated with ferromagnesian minerals (or the pseudomorphs of).										
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing			

From: 22.000	To: 113.960	Length: 91.960						
Geology	Primary	Secondary	Colour		Weathering			
	FVC1		Lt Grey		Fresh			
Sericite-pyrite altered, faulted, felsic volcaniclastics (ash to lapilli-ash tuffs). This section represents dacitic to rhyolitic ash to lapilli ash tuffs that are faulted; this section is very similar to felsic tuffs and pyroclastic rocks at the Newton Au-deposit. Interval has a vfgr to aphanitic, grey to white, locally glassy, matrix hosting up to 15% plagioclase as angular fragments and euhedral laths ranging in size from <1-3mm; potentially up to a 2% fine quartz eyes locally; locally up to 10mm feldspar (plagioclase) crystals. Potential sinuous flow fabric that is emphasized by faulting?								
Potentially some fsp-phyric felsic flows interbedded within this sequence where fsp abundance is larger with equal sized phenocrysts.								
Section has consistent 20 deg TCA, narrow clay-rich/gouge fault zones with black fine-grained smeared out pyrite, creating black pyritic seams in white clay fault zones. Lower contact is faulted at 20 deg TCA.								
Locally up to 10% gypsum veins, no sulphide association, apart from potentially utilizing same weakzones as faulted pyritic veinlets (that are now narrow fault planes); most gypsum veinlets are 35-60 deg TCA. Non-reactive to HCl, white, soft, locally up to 1mm acicular blades.								
Alteration	Altcode	Intensity						
Sericite-pyrite alteration intensity is 3-4. Rockmass is pervasively altered by sericite-pyrite prior to faulting and thorough coarse (bladed, acicular) gypsum veining? (non-fizzing). Plagioclase is altered to a white, soft clay.								
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite				
			5.000					
<1-2mm dissemination of pyrite, filling void space?, locally elongated pyrite patches (replacement of hbl?).								
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing	
From: 113.960	To: 145.000	Length: 31.040						
Geology	Primary	Secondary	Colour		Weathering			
	IVC1	IVF1	Lt Grn		Fresh			
Epidote-chlorite altered, faulted intermediate volcanic flows and volcaniclastics. Interval is strongly faulted, with 15-25 deg TCA 1-3cm fault-'smears' consisting of white to grey clay and fine, often black pyrite; locally up to 30cm of rock that has been reduced to fault gouge. Top of interval potentially fsp-phyric flow in fault contact with fine to medium grained volcaniclastics containing up to 5% <1-3cm angular to rounded fragments of fgr or fsp phyric mafic volcanics and 10-20% 1-5mm feldspar fragments (subhedral to anhedral); hosted in a fgr-mgr groundmass fsp+hbl? Groundmass.								
Alteration	Altcode	Intensity						
	ECS1	2.00						
hbl is chlorite+/-epidote altered, locally pseudomorphs also include magnetite. Rare biotite is altered to magnetite (purple). Groundmass is a mix of a green to maroon coloured 'wash'. Many feldspars appear to have an epidote dusting (epidote pseudomorphs after feldspar?).								
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite				
			1.500					
fine disseminations, locally more abundant in fault gouge								
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing	

From: 145.000	To: 211.430	Length: 66.430												
Geology	Primary	Secondary		Colour			Weathering							
	IVC1													
Epidote-chlorite altered, intermediate volcaniclastics. Maroon to green coloured, non-welded, ash and lapilli-ash tuffs with interbedded epiclastic deposits. Larger, lapilli-sized, fragments are commonly surrounded to rounded. Bedding at roughly 40 deg TCA (coarser volcaniclastic at base of sequence, getting finer uphole). Unit is characterized by a gritty, ash-sized, matrix texture with chl-ep-magn altered crystals hosting lapilli sized fragments of volcanic flows and volcaniclastics. Rare euhedral quartz crystals.														
Alteration	Altcode	Intensity												
	ECS1				1.00									
hbl is chlorite+/-epidote altered, locally pseudomorphs also include magnetite. Rare biotite is altered to magnetite (purple). Groundmass is a mix of a green to maroon coloured 'wash'. Many feldspars appear to have an epidote dusting (epidote pseudomorphs after feldspar?).														
Mineralization	Minstyle	Chalcopyrite		Pyrite		Molybdenite								
				0.500										
Fine disseminations of pyrite, locally fine pyrite rimming ash sized fragments.														
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin		Timing						
From: 211.430	To: 345.480	Length: 134.050												
Geology	Primary	Secondary			Colour			Weathering						
	IVF1													
Epidote-chlorite altered, intermediate fsp-hbl phryic flows. Contact with above volcaniclastics is at 60 deg TCA; groundmass has a similar appearance to the volcaniclastic unit, however this unit is more feldspar charged (20-30% phenocrysts, 3-10mm, locally glomerocrystic) with 5-10% hbl phenocrysts (2-3mm, locally up to 10mm) and hosted in a reddish to mauve-coloured glassy/aphanatic groundmass. Contains abundant angular or broken feldspar and mafic volcanic fragments. <1% 2mm euhedral quartz phenocrsts. Hosts rounded lapilli sized rock fragments as unit above.														
Alteration	Altcode	Intensity												
	ECS1				1.00									
hbl is chlorite+/-epidote altered, locally pseudomorphs also include magnetite. Rare biotite is altered to magnetite (purple). Groundmass is a mix of a green to maroon coloured 'wash'. Many feldspars appear to have an epidote dusting (epidote pseudomorphs after feldspar?). From 226-255.8m more mauve coloured, ghosting much of the primary texture, unit also becomes harder/more scratch resistant. 246-247m veinlet network of dissolved carbonate.														
Mineralization	Minstyle	Chalcopyrite		Pyrite		Molybdenite								
				0.250										
very minor amounts of disseminated pyrite, locally primary? 2mm cubic pyrite.														
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin		Timing						

From: 345.480	To: 358.680	Length: 13.200					
Geology	Primary IVF2	Secondary	Colour	Weathering			
Intermediate, flowbanded, fsp-hbl phric flows and pyroclastics. This light coloured unit is characterized by fgr groundmass consisting of plagioclase (80%) microliths (and quartz?) hosting up to 1-2% <1 long acicular hornblende needles, rare <1mm biotite and up to 3% of 1-2mm stubby, glomerocrystic oligoclase? Which commonly occurs in small clusters surrounded by a cream coloured groundmass. Flow banding is locally at 40 deg TCA and characterized by different (darker/lighter) coloured bands. Locally, chl-altered angular fragments of fsp-hbl phric andesite.							
Alteration	Altcode no apparent alteration	Intensity					
Mineralization							
Mineralization	Minstyle none noted.	Chalcopyrite	Pyrite 0.000	Molybdenite			
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
From: 358.680	To: 367.800	Length: 9.120					
Geology	Primary IVF1	Secondary IVC1	Colour	Weathering			
Weakly epidote-chlorite altered, hbl-fsp phric intermediate flows and volcaniclastics. Majority of this interval is a porphyritic flow (?), same IFV1 as above (glomerocrystic feldspar) with narrow sections of more pyritic volcaniclastics (at 60 deg TCA).							
Alteration	Altcode ECS1	Intensity		1.00			
weak to very weak epidote-chlorite alteration of ferromagnesian minerals; feldspars are mauve coloured.							
Mineralization	Minstyle Disseminated cubic 1mm pyrite in the flow and finer and/or patchy pyrite in the volcaniclastic interbed.	Chalcopyrite	Pyrite 0.500	Molybdenite			
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing
From: 367.800	To: 384.580	Length: 16.780					
Geology	Primary IVC1	Secondary	Colour	Weathering			
Epidote-chlorite altered, intermediate volcaniclastics. Lower contact at 85-90 deg TCA.							
Section cores a volcanic pile containing ash to lapilli tuffs and locally epiclastic interbeds. Locally it appears as if there are bone-white to pale mauve dykelets of fine quartz-porphyritic rhyolite intruding the pile as well as hbl-fsp ifv 1.							
Alteration	Altcode ECS1	Intensity		2.00			
hbl is chlorite+/-epidote altered, locally pseudomorphs also include magnetite. Rare biotite is altered to magnetite (purple). Groundmass is a mix of a green to maroon coloured 'wash'. Many feldspars appear to have an epidote dusting (epidote pseudomorphs after feldspar?).							
Mineralization	Minstyle Pyrite occurs mostly disseminated, often 1mm cubes throughout the section. Finer pyrite replacing ferromagnesian minerals and mafic fragments in the volcanic fragmental units. Very minor pyrite in quartz-veinlets (rare). Trace <1-1mm black sphalerite, and even more rare galena as disseminations, often associated with stronger epidote-chlorite altered parts of this section.	Chalcopyrite	Pyrite 3.000	Molybdenite			
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing

From: 384.580

To: 454.000

Length: 69.420

Geology	Primary	Secondary	Colour	Weathering			
IDP2							
Chlorite-epidote+/-hematite and quartz-magnetite altered, fine-grained porphyritic intrusion ((quartz-) monzonite). Post-mineral, mafic weakly hbl porphyritic dyke from 389.55-391.76 at 20 deg TCA. Characteristic of this rock unit is the gritty (almost coarse sandstone like) texture where an aphanitic cream-white to pale-mauve coloured groundmass (40-45%) hosts 25-30% <1-2mm feldspar and 15-25% 1-3mm ferromagnesian minerals; many accicular hbl shapes are preserved. Rare (<1%) quartz phenocrysts. The alteration intensity of this rock type is often strong enough to mask may primary textures.							
Alteration	Altcode	Intensity					
	ECS1		4.00				
The alteration intensity of this rock type is often strong enough to mask may primary textures. Much of the ferromagnesian minerals are replaced by chlorite+/-epidote and locally hematite+/-magnetite; rare sph+gal. Many feldspars are either pale-mauve coloured or are glassy/transparent with a fuzzy pale brown tint. The result of the alteration is a gritty mauve-green-pistacho green-black texture. Potentially albite as part of the pale white to pale-mauve coloured alteration that is hard.							
There are poorly defined epidote veinlets or up to 2 cm irregular feldspar?-quartz veins with up to 3-4cm patches of sphalerite-galena (honey coloured sphalerite rimming galena); feldspathic part of vein or poorly defined band is epidote altered. Some veins have a 1mm rind of orange to red colour. Better examples display a core of sphalerite and or galena with quartz and feldspar with epidote and disseminated sphalerite in the envelope. This veintype constitutes roughly <1-2% with an envelope vol% of 3-5% and commonly at 70-90 deg TCA.							
There is a high abundance of irregular shaped, apparent epidote altered 5-60mm patches that typically do not have sulfide associated with it.							
Apparent post-dating epi-chl alteration is quartz-magnetite alteration. This alteration is characterized by: (a) 1-10cm wide zones or bands of dark alteration, which upon closer inspection is a complex mix of fine irregular quartz veinlets and black, fine grained masses magnetite; this alteration is getting stronger in intensity downhole; and (b) <1cm grey to black bands with a hairline thin quartz-veinlet in the center and chlorite and magnetite within this narrow band.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			0.050	0.750			
0.5-1% galena, often associated with sphalerite and rimmed by galena. Sph-gal often associated with epi-chl alteration or as thin (<5mm) base-metal veins with locally patches of py or cpy (no alteration in the envelope); locally with magnetite. Rare quartz-carbonate veinlets with trace chalcopyrite. Pyrite is disseminated through the rockmass.							
Veining	Veincode	Percent	Mineralogy	Angletca	EnvPct	EnvMin	Timing

From: 454.000

To: 467.630

Length: 13.630

Geology	Primary	Secondary	Colour	Weathering			
IDP2							
Chlorite-epidote+/-hematite, fine-grained porphyritic intrusion ((quartz-) monzonite). Same as above. Characteristic of this rock unit is the gritty (almost coarse sandstone like) texture where an aphanitic cream-white to pale-mauve coloured groundmass (40-45%) hosts 25-30% <1-2mm feldspar and 15-25% 1-3mm ferromagnesian minerals; many acicular hbl shapes are preserved. Rare (<1%) quartz phenocrysts. The alteration intensity of this rock type is often strong enough to mask may primary textures.							
Alteration	Altcode	Intensity					
ECS1		3.00					
The alteration intensity of this rock type is often strong enough to mask may primary textures. Much of the ferromagnesian minerals are replaced by chlorite+/-epidote and locally hematite+/-magnetite; rare sph+gal. Many feldspars are either pale-mauve coloured or are glassy/transparent with a fuzzy pale brown tint. The result of the alteration is a gritty mauve-green-pistachio green-black texture. Potentially albite as part of the pale white to pale-mauve coloured alteration that is hard.							
There are poorly defined epidote veinlets or up to 2 cm irregular feldspar?-quartz veins with up to 3-4cm patches of sphalerite-galena (honey coloured sphalerite rimming galena); feldspathic part of vein or poorly defined band is epidote altered. Some veins have a 1mm rind of orange to red colour. Better examples display a core of sphalerite and or galena with quartz and feldspar with epidote and disseminated sphalerite in the envelope. Significantly less veining than in interval above.							
There is a high abundance of irregular shaped, apparent epidote altered 5-60mm patches that typically do not have sulfide associated with it.							
Apparent post-dating epi-chl alteration is quartz-magnetite alteration. This alteration is characterized by: (a) 1-10cm wide zones or bands of dark alteration, which upon closer inspection is a complex mix of fine irregular quartz veinlets and black, fine grained masses magnetite; this alteration is getting stronger in intensity downhole; and (b) <1cm grey to black bands with a hairline thin quartz-veinlet in the center and chlorite and magnetite within this narrow band.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			0.500				
Trace galena, locally associated with sphalerite and rimmed by galena. Sph-gal locally associated with epi-chl alteration or as thin (<5mm) base-metal veins with locally patches of py or cpy (no alteration in the envelope); locally with magnetite. Pyrite is disseminated through the rockmass.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing

From: 467.630

To: 472.900

Length: 5.270

Geology	Primary	Secondary	Colour	Weathering			
IDP2		MDX1	Dk Grn				
Chlorite-epidote+/-hematite, fine-grained porphyritic intrusion ((quartz-) monzonite). Upper contact between IDP2 and MDX1 at 10 deg TCA and includes fragments of IDP2 in MDX1 dyke. This interval is coring along the contact between IDP2 and MDX1. There are fragments of each in this section;							
Alteration	Altcode	Intensity					
ECS1		3.00					
The alteration intensity of this rock type is often strong enough to mask may primary textures. Much of the ferromagnesian minerals are replaced by chlorite+/-epidote and locally hematite+/-magnetite; rare sph+gal. Many feldspars are either pale-mauve coloured or are glassy/transparent with a fuzzy pale brown tint. The result of the alteration is a gritty mauve-green-pistachio green-black texture. Potentially albite as part of the pale white to pale-mauve coloured alteration that is hard.							
Similar alteration to interval above, except it is missing the mauve to orange colour.							
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite			
			1.500				
0.5-1% galena, often associated with sphalerite and rimmed by galena. Sph-gal often associated with epi-chl alteration or as thin (<5mm) base-metal veins with locally patches of py or cpy (no alteration in the envelope); locally with magnetite. Pyrite is disseminated through the rockmass.							
Veining	Veincode	Percent	Mineralogy	Angleta	EnvPct	EnvMin	Timing

From: 472.900	To: 480.300	Length: 7.400		
Geology	Primary	Secondary	Colour	Weathering
Chlorite-epidote+/-hematite, fsp-hbl porphyritic mafic dyke. <5-10% <1-4mm accicular hornblende needles (most are ~1mm) and 5-15% <1-3mm plagioclase needles set in vgfr dark green groundmass; epidote alteration appears to over emphasize size of plagioclase. Intrudes IDP2 30 deg TCA at lower contact; includes xenoliths of IDP2 at contact; locally sph-gal mineralized fragments.				
Alteration	Altcode	Intensity		
epi pseudomorphs after/staining of fsps. All hornblende is chlorite altered.				
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
disseminated 1mm cubic pyrite				
Veining	Veincode	Percent	Mineralogy	Angleca
From: 480.300	To: 517.000	Length: 36.700		
Geology	Primary	Secondary	Colour	Weathering
Chlorite-epidote+/-hematite, fine-grained porphyritic intrusion ((quartz-) monzonite). Same unit as above, but with lesser abundance of base metals and pyrite. Characteristic of this rock unit is the gritty (almost coarse sandstone like) texture where an aphanitic cream-white to pale-mauve coloured groundmass (40-45%) hosts 25-30% <1-2mm feldspar and 15-25% 1-3mm ferromagnesian minerals; many accicular hbl shapes are preserved. Rare (<1%) quartz phenocrysts. The alteration intensity of this rock type is often strong enough to mask may primary textures.				
Alteration	Altcode	Intensity		
The alteration intensity of this rock type is often strong enough to mask may primary textures. Much of the ferromagnesian minerals are replaced by chlorite+/-epidote and locally hematite+/-magnetite; rare sph+gal. Many feldspars are either pale-mauve coloured or are glassy/transparent with a fuzzy pale brown tint. The result of the alteration is a gritty mauve-green-pistachio green-black texture. Potentially albite as part of the pale white to pale-mauve coloured alteration that is hard.				
There are poorly defined epidote veinlets or up to 2 cm irregular feldspar?-quartz veins with up to 3-4cm patches of sphalerite-galena (honey coloured sphalerite rimming galena); feldspathic part of vein or poorly defined band is epidote altered. Some veins have a 1mm rind of orange to red colour. Better examples display a core of sphalerite and or galena with quartz and feldspar with epidote and disseminated sphalerite in the envelope.				
There is a high abdunance of irregular shaped, apparent epidote altered 5-60mm patches that typically do not have sulfide associated with it.				
Apparent post-dating epi-chl alteration is quartz-magnetite alteration, but less so than in IDP2 above. This alteration is characterized by rare 1-5cm wide zones or bands of dark alteration, which upon closer inspection is a complex mix of fine irregular quartz veinlets and black, fine grained masses magnetite; this alteration is getting stronger in intensity downhole; and (b) <1cm grey to black bands with a hairline thin quartz-veinlet in the center and chlorite and magnetite within this narrow band. Much of the magnetite appears to have been partially replaced by purple hematite. Irregular, core axis parallel set of veinlets with hematized magneite in the envelope are common.				
Locally somewhat poorly developed network of irregular quartz veins with no envelopes or min\$, postdating eqi-chl+/-mag alteration. From 506-516, set of these veins at 50 deg TCA, no envelopes/alteration/min\$.				
Mineralization	Minstyle	Chalcopyrite	Pyrite	Molybdenite
Trace galena, locally associated with sphalerite and rimmed by galena. Sph-gal locally associated with epi-chl alteration or as thin (<5mm) base-metal veins with locally patches of py or cpy (no alteration in the envelope); locally with magnetite. Pyrite is disseminated through the rockmass.				
Veining	Veincode	Percent	Mineralogy	Angleca

Appendix B

HOLE-ID	FROM	TO	SAMPLE
JY17001	14.00	17.00	742002
JY17001	17.00	20.00	742003
JY17001	20.00	23.00	742004
JY17001	23.00	29.00	742005
JY17001	29.00	32.00	742007
JY17001	32.00	35.00	742008
JY17001	35.00	38.00	742009
JY17001	38.00	41.00	742011
JY17001	41.00	44.00	742012
JY17001	44.00	47.00	742013
JY17001	47.00	50.00	742014
JY17001	50.00	53.00	742015
JY17001	53.00	56.00	742016
JY17001	56.00	59.00	742017
JY17001	59.00	62.00	742018
JY17001	62.00	65.00	742019
JY17001	65.00	68.00	742021
JY17001	68.00	71.00	742022
JY17001	71.00	74.00	742023
JY17001	74.00	77.00	742024
JY17001	77.00	80.00	742025
JY17001	80.00	83.00	742026
JY17001	83.00	86.00	742027
JY17001	86.00	89.00	742028
JY17001	89.00	92.00	742029
JY17001	92.00	95.00	742031
JY17001	95.00	98.00	742032
JY17001	98.00	101.00	742033
JY17001	101.00	104.00	742034
JY17001	104.00	107.00	742035
JY17001	107.00	110.00	742036
JY17001	110.00	113.00	742037
JY17001	113.00	116.00	742038
JY17001	116.00	119.00	742039
JY17001	119.00	122.00	742041
JY17001	122.00	125.00	742042
JY17001	125.00	128.00	742043
JY17001	128.00	131.00	742044
JY17001	131.00	134.00	742045
JY17001	134.00	137.00	742046
JY17001	137.00	140.00	742047
JY17001	140.00	143.00	742048
JY17001	143.00	146.00	742049
JY17001	146.00	149.00	742051
JY17001	149.00	152.00	742052
JY17001	152.00	155.00	742053

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HOLE-ID	FROM	TO	SAMPLE
JY17001	155.00	158.00	742054
JY17001	158.00	160.50	742055
JY17001	160.50	164.00	742056
JY17001	164.00	167.00	742057
JY17001	167.00	170.00	742058
JY17001	170.00	173.00	742059
JY17001	173.00	176.00	742061
JY17001	176.00	179.00	742062
JY17001	179.00	182.00	742063
JY17001	182.00	185.00	742064
JY17001	185.00	188.00	742065
JY17001	188.00	191.00	742066
JY17001	191.00	194.00	742067
JY17001	194.00	197.00	742068
JY17001	197.00	200.00	742069
JY17001	200.00	203.00	742071
JY17001	203.00	206.00	742072
JY17001	206.00	209.00	742073
JY17001	209.00	212.00	742074
JY17001	212.00	215.00	742075
JY17001	215.00	218.00	742076
JY17001	218.00	221.00	742077
JY17001	221.00	224.00	742078
JY17001	224.00	227.00	742079
JY17001	227.00	230.00	742081
JY17001	230.00	233.00	742082
JY17001	233.00	236.00	742083
JY17001	236.00	239.00	742084
JY17001	239.00	242.00	742085
JY17001	242.00	245.00	742086
JY17001	245.00	248.00	742088
JY17001	248.00	251.00	742089
JY17001	251.00	254.00	742091
JY17001	254.00	257.00	742092
JY17001	257.00	260.00	742093
JY17001	260.00	263.00	742094
JY17001	263.00	266.00	742095
JY17001	266.00	269.00	742096
JY17001	269.00	272.00	742097
JY17001	272.00	275.00	742098
JY17001	275.00	278.30	742099
JY17001	278.30	281.00	742101
JY17001	281.00	284.00	742102
JY17001	284.00	287.30	742103
JY17001	287.30	290.00	742104
JY17001	290.00	293.00	742105

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HOLE-ID	FROM	TO	SAMPLE
JY17001	293.00	296.00	742106
JY17001	296.00	298.25	742107
JY17001	298.25	301.84	742108
JY17001	301.84	305.00	742109
JY17001	305.00	308.00	742111
JY17001	308.00	311.00	742112
JY17001	311.00	314.00	742113
JY17001	314.00	317.00	742114
JY17001	317.00	320.00	742115
JY17001	320.00	323.00	742116
JY17001	323.00	326.00	742117
JY17001	326.00	329.00	742118
JY17001	329.00	332.00	742119
JY17001	332.00	335.00	742121
JY17001	335.00	338.00	742122
JY17001	338.00	341.00	742123
JY17001	341.00	344.59	742124
JY17001	344.59	347.00	742125
JY17001	347.00	350.00	742126
JY17001	350.00	352.00	742127
JY17001	352.00	353.78	742128
JY17001	353.78	356.00	742129
JY17001	356.00	359.00	742131
JY17001	359.00	362.00	742132
JY17001	362.00	365.00	742133
JY17001	365.00	368.00	742134
JY17001	368.00	370.63	742135
JY17001	370.63	373.00	742136
JY17001	373.00	375.25	742137
JY17001	375.25	378.00	742138
JY17001	378.00	380.34	742139
JY17001	380.34	383.00	742141
JY17001	383.00	386.37	742142
JY17001	386.37	389.00	742143
JY17001	389.00	392.00	742144
JY17001	392.00	395.00	742145
JY17001	395.00	398.00	742146
JY17001	398.00	401.00	742147
JY17001	401.00	404.00	742148
JY17001	404.00	407.26	742149
JY17001	407.26	410.00	742151
JY17001	410.00	413.00	742152
JY17001	413.00	416.00	742153
JY17001	416.00	419.00	742154
JY17001	419.00	422.00	742155
JY17001	422.00	425.00	742156

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HOLE-ID	FROM	TO	SAMPLE
JY17001	425.00	428.00	742157
JY17001	428.00	431.00	742158
JY17001	431.00	434.00	742159
JY17001	434.00	437.00	742161
JY17001	437.00	440.00	742162
JY17001	440.00	443.00	742163
JY17001	443.00	446.00	742164
JY17001	446.00	449.00	742165
JY17001	449.00	452.00	742166
JY17001	452.00	455.00	742167
JY17001	455.00	458.00	742168
JY17001	458.00	461.00	742169
JY17001	461.00	464.00	742171
JY17001	464.00	467.00	742172
JY17001	467.00	470.00	742173
JY17001	470.00	473.00	742174
JY17001	473.00	476.00	742175
JY17001	476.00	477.82	742176
JY17001	477.82	480.08	742177
JY17001	480.08	484.27	742178
JY17001	484.27	487.12	742179
JY17001	487.12	491.00	742181
JY17001	491.00	494.00	742182
JY17001	494.00	497.00	742183
JY17001	497.00	500.00	742184
JY17001	500.00	503.00	742185
JY17002	21.20	24.20	742186
JY17002	24.20	27.20	742187
JY17002	27.20	30.20	742188
JY17002	30.20	33.20	742189
JY17002	33.20	36.20	742191
JY17002	36.20	39.20	742192
JY17002	39.20	42.20	742193
JY17002	42.20	45.20	742194
JY17002	45.20	48.20	742195
JY17002	48.20	51.20	742196
JY17002	51.20	54.20	742197
JY17002	54.20	57.20	742198
JY17002	57.20	60.38	742199
JY17002	60.38	63.20	742201
JY17002	63.20	67.13	742202
JY17002	67.13	69.20	742203
JY17002	69.20	72.20	742204
JY17002	72.20	75.57	742205
JY17002	75.57	78.20	742206
JY17002	78.20	81.48	742207

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HOLE-ID	FROM	TO	SAMPLE
JY17002	81.48	84.28	742208
JY17002	84.28	87.20	742209
JY17002	87.20	90.20	742211
JY17002	90.20	93.20	742212
JY17002	93.20	96.20	742213
JY17002	96.20	99.20	742214
JY17002	99.20	102.20	742215
JY17002	102.20	105.20	742216
JY17002	105.20	106.90	742217
JY17002	106.90	108.20	742218
JY17002	108.20	110.70	742219
JY17002	110.70	114.20	742221
JY17002	114.20	117.20	742222
JY17002	117.20	120.20	742223
JY17002	120.20	123.20	742224
JY17002	123.20	126.20	742225
JY17002	126.20	129.20	742226
JY17002	129.20	132.20	742227
JY17002	132.20	135.20	742228
JY17002	135.20	137.78	742229
JY17002	137.78	141.20	742231
JY17002	141.20	144.20	742232
JY17002	144.20	147.20	742233
JY17002	147.20	150.20	742234
JY17002	150.20	153.20	742235
JY17002	153.20	156.20	742236
JY17002	156.20	159.00	742237
JY17002	159.00	162.20	742238
JY17002	162.20	166.00	742239
JY17002	166.00	168.20	742241
JY17002	168.20	171.20	742242
JY17002	171.20	174.20	742243
JY17002	174.20	177.20	742244
JY17002	177.20	180.20	742245
JY17002	180.20	183.20	742246
JY17002	183.20	186.20	742247
JY17002	186.20	189.20	742248
JY17002	189.20	192.20	742249
JY17002	192.20	195.20	742251
JY17002	195.20	198.20	742252
JY17002	198.20	201.20	742253
JY17002	201.20	204.20	742254
JY17002	204.20	207.20	742255
JY17002	207.20	210.20	742256
JY17002	210.20	211.63	742257
JY17002	211.63	216.13	742258

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HOLE-ID	FROM	TO	SAMPLE
JY17002	216.13	219.20	742259
JY17002	219.20	222.20	742261
JY17002	222.20	224.30	742262
JY17002	224.30	226.00	742263
JY17002	226.00	229.20	742264
JY17002	229.20	233.72	742265
JY17002	233.72	237.20	742266
JY17002	237.20	240.20	742267
JY17002	240.20	243.20	742268
JY17002	243.20	246.20	742269
JY17002	246.20	249.20	742271
JY17002	249.20	252.20	742272
JY17002	252.20	255.20	742273
JY17002	255.20	258.20	742274
JY17002	258.20	261.20	742275
JY17002	261.20	264.20	742276
JY17002	264.20	267.20	742277
JY17002	267.20	270.20	742278
JY17002	270.20	273.20	742279
JY17002	273.20	276.20	742281
JY17002	276.20	279.20	742282
JY17002	279.20	282.20	742283
JY17002	282.20	285.20	742284
JY17002	285.20	288.20	742285
JY17002	288.20	291.20	742286
JY17002	291.20	294.20	742287
JY17002	294.20	297.57	742288
JY17002	297.57	301.03	742289
JY17002	301.03	303.20	742291
JY17002	303.20	306.20	742292
JY17002	306.20	309.20	742293
JY17002	309.20	312.20	742294
JY17002	312.20	315.20	742295
JY17002	315.20	318.20	742296
JY17002	318.20	321.20	742297
JY17002	321.20	324.20	742298
JY17002	324.20	327.20	742299
JY17002	327.20	330.20	742301
JY17002	330.20	333.20	742302
JY17002	333.20	336.20	742303
JY17002	336.20	339.20	742304
JY17002	339.20	342.20	742305
JY17002	342.20	345.20	742306
JY17002	345.20	348.20	742307
JY17002	348.20	351.20	742308
JY17002	351.20	354.20	742309

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HOLE-ID	FROM	TO	SAMPLE
JY17002	354.20	357.20	742311
JY17002	357.20	360.20	742312
JY17002	360.20	363.20	742313
JY17002	363.20	366.20	742314
JY17002	366.20	369.20	742315
JY17002	369.20	372.20	742316
JY17002	372.20	375.20	742317
JY17002	375.20	378.20	742318
JY17002	378.20	381.20	742319
JY17002	381.20	384.20	742321
JY17002	384.20	387.20	742322
JY17002	387.20	390.20	742323
JY17002	390.20	393.20	742324
JY17002	393.20	396.20	742325
JY17002	396.20	399.00	742326
JY17002	399.00	400.05	742327
JY17002	400.05	402.20	742329
JY17002	402.20	405.20	742331
JY17002	405.20	408.20	742332
JY17002	408.20	411.20	742333
JY17002	411.20	414.20	742334
JY17002	414.20	417.20	742335
JY17002	417.20	420.20	742336
JY17002	420.20	423.20	742337
JY17002	423.20	426.20	742338
JY17002	426.20	429.20	742339
JY17002	429.20	432.20	742341
JY17002	432.20	435.20	742342
JY17002	435.20	438.20	742343
JY17002	438.20	441.20	742344
JY17002	441.20	444.20	742345
JY17002	444.20	447.20	742346
JY17002	447.20	450.20	742347
JY17002	450.20	453.20	742348
JY17002	453.20	456.20	742349
JY17002	456.20	459.20	742351
JY17002	459.20	462.20	742352
JY17002	462.20	465.20	742353
JY17002	465.20	468.20	742354
JY17002	468.20	471.20	742355
JY17002	471.20	474.20	742356
JY17002	474.20	477.20	742357
JY17002	477.20	480.20	742358
JY17002	480.20	483.20	742359
JY17002	483.20	486.20	742361
JY17002	486.20	489.20	742362

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HOLE-ID	FROM	TO	SAMPLE
JY17002	489.20	492.20	742363
JY17002	492.20	495.20	742364
JY17002	495.20	498.20	742365
JY17002	498.20	501.20	742366
JY17002	501.20	504.20	742367
JY17002	504.20	507.20	742368
JY17003	10.00	16.00	742369
JY17003	16.00	17.80	742371
JY17003	17.80	19.00	742372
JY17003	19.00	22.00	742373
JY17003	22.00	25.00	742374
JY17003	25.00	28.00	742375
JY17003	28.00	31.00	742376
JY17003	31.00	34.00	742377
JY17003	34.00	37.00	742378
JY17003	37.00	40.00	742379
JY17003	40.00	43.00	742381
JY17003	43.00	46.00	742382
JY17003	46.00	49.00	742383
JY17003	49.00	52.00	742384
JY17003	52.00	55.00	742385
JY17003	55.00	58.00	742386
JY17003	58.00	61.00	742387
JY17003	61.00	64.00	742388
JY17003	64.00	67.00	742389
JY17003	67.00	70.00	742391
JY17003	70.00	73.00	742392
JY17003	73.00	76.00	742393
JY17003	76.00	79.00	742394
JY17003	79.00	82.00	742395
JY17003	82.00	85.00	742396
JY17003	85.00	88.00	742397
JY17003	88.00	91.00	742398
JY17003	91.00	94.00	742399
JY17003	94.00	97.00	742401
JY17003	97.00	100.00	742402
JY17003	100.00	103.00	742403
JY17003	103.00	106.00	742404
JY17003	106.00	109.00	742405
JY17003	109.00	112.00	742406
JY17003	112.00	113.96	742407
JY17003	113.96	117.78	742408
JY17003	117.78	121.00	742409
JY17003	121.00	124.00	742411
JY17003	124.00	127.00	742412
JY17003	127.00	130.00	742413

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HOLE-ID	FROM	TO	SAMPLE
JY17003	130.00	133.00	742414
JY17003	133.00	136.00	742415
JY17003	136.00	139.00	742416
JY17003	139.00	142.00	742417
JY17003	142.00	145.00	742418
JY17003	145.00	148.00	742419
JY17003	148.00	151.00	742421
JY17003	151.00	154.00	742422
JY17003	154.00	157.00	742423
JY17003	157.00	160.00	742424
JY17003	160.00	163.00	742425
JY17003	163.00	166.00	742426
JY17003	166.00	169.00	742427
JY17003	169.00	172.00	742428
JY17003	172.00	175.00	742429
JY17003	175.00	178.00	742431
JY17003	178.00	181.00	742432
JY17003	181.00	184.00	742433
JY17003	184.00	187.00	742434
JY17003	187.00	190.00	742435
JY17003	190.00	193.00	742436
JY17003	193.00	196.00	742437
JY17003	196.00	199.00	742438
JY17003	199.00	202.00	742439
JY17003	202.00	205.00	742441
JY17003	205.00	208.00	742442
JY17003	208.00	211.43	742443
JY17003	211.43	214.00	742444
JY17003	214.00	217.00	742445
JY17003	217.00	220.00	742446
JY17003	220.00	223.00	742448
JY17003	223.00	226.00	742449
JY17003	226.00	229.00	742451
JY17003	229.00	232.00	742452
JY17003	232.00	235.00	742453
JY17003	235.00	238.00	742454
JY17003	238.00	241.00	742455
JY17003	241.00	244.00	742456
JY17003	244.00	247.00	742457
JY17003	247.00	250.00	742458
JY17003	250.00	253.00	742459
JY17003	253.00	255.80	742461
JY17003	255.80	257.97	742462
JY17003	257.97	260.17	742463
JY17003	260.17	262.00	742464
JY17003	262.00	265.00	742465

Appendix B

HOLE-ID	FROM	TO	SAMPLE
JY17003	265.00	268.00	742466
JY17003	268.00	271.00	742467
JY17003	271.00	274.00	742468
JY17003	274.00	277.00	742469
JY17003	277.00	280.00	742471
JY17003	280.00	283.00	742472
JY17003	283.00	286.00	742473
JY17003	286.00	289.00	742474
JY17003	289.00	292.00	742475
JY17003	292.00	295.00	742476
JY17003	295.00	298.00	742477
JY17003	298.00	301.00	742478
JY17003	301.00	304.00	742479
JY17003	304.00	307.00	742481
JY17003	307.00	310.00	742482
JY17003	310.00	313.00	742483
JY17003	313.00	316.00	742484
JY17003	316.00	319.00	742485
JY17003	319.00	322.00	742486
JY17003	322.00	325.00	742487
JY17003	325.00	328.00	742488
JY17003	328.00	331.00	742489
JY17003	331.00	334.00	742491
JY17003	334.00	337.00	742492
JY17003	337.00	340.00	742493
JY17003	340.00	343.00	742494
JY17003	343.00	345.48	742495
JY17003	345.48	349.00	742496
JY17003	349.00	352.00	742497
JY17003	352.00	355.00	742498
JY17003	355.00	358.68	742499
JY17003	358.68	361.00	718901
JY17003	361.00	364.00	718902
JY17003	364.00	367.80	718903
JY17003	367.80	370.00	718904
JY17003	370.00	373.00	718905
JY17003	373.00	376.00	718906
JY17003	376.00	379.00	718907
JY17003	379.00	382.00	718908
JY17003	382.00	384.58	718909
JY17003	384.58	387.00	718911
JY17003	387.00	389.35	718912
JY17003	389.35	391.76	718913
JY17003	391.76	394.00	718914
JY17003	394.00	397.00	718915
JY17003	397.00	400.00	718917

Appendix B

HOLE-ID	FROM	TO	SAMPLE
JY17003	400.00	403.00	718918
JY17003	403.00	406.00	718919
JY17003	406.00	409.00	718921
JY17003	409.00	412.00	718922
JY17003	412.00	415.00	718923
JY17003	415.00	418.00	718924
JY17003	418.00	421.00	718925
JY17003	421.00	424.00	718926
JY17003	424.00	427.00	718927
JY17003	427.00	430.00	718928
JY17003	430.00	433.00	718929
JY17003	433.00	436.00	718931
JY17003	436.00	439.00	718932
JY17003	439.00	442.00	718933
JY17003	442.00	445.00	718934
JY17003	445.00	448.00	718935
JY17003	448.00	451.00	718936
JY17003	451.00	454.00	718937
JY17003	454.00	457.00	718938
JY17003	457.00	460.00	718939
JY17003	460.00	463.00	718941
JY17003	463.00	465.00	718942
JY17003	465.00	467.63	718943
JY17003	467.63	470.00	718944
JY17003	470.00	472.90	718945
JY17003	472.90	475.00	718946
JY17003	475.00	478.00	718947
JY17003	478.00	480.30	718948
JY17003	480.30	484.00	718949
JY17003	484.00	487.00	741401
JY17003	487.00	490.00	741402
JY17003	490.00	493.00	741403
JY17003	493.00	496.00	741404
JY17003	496.00	499.00	741405
JY17003	499.00	502.00	741406
JY17003	502.00	505.00	741407
JY17003	505.00	508.00	741408
JY17003	508.00	511.00	741409
JY17003	511.00	514.00	741411
JY17003	514.00	517.00	741412

Quality Analysis ...



Innovative Technologies

Date Submitted: 30-Aug-17
Invoice No.: A17-09418Final
Invoice Date: 27-Sep-17
Your Reference: ECSTASY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

89 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1C-OES-Kamloops Fire Assay ICPOES
 Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)
 Code Sieve Report-Kamloops Internal Sieve Report Internal
 Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-09418Final

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Results

Activation Laboratories Ltd.

Report: A17-09418

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																		
742002	37	< 5	< 5	< 3.0	9.2	< 30	1460	< 10	< 20	1.0	< 3	< 10	20	0.011	3.9	30	< 10	2.7	< 10	0.6	0.093	0.001	3.7
742003	17	< 5	< 5	< 3.0	8.8	30	1670	< 10	< 20	1.4	< 3	< 10	10	0.009	3.7	20	< 10	2.9	< 10	0.6	0.105	< 0.001	3.1
742004	42	< 5	< 5	< 3.0	8.6	40	1700	< 10	< 20	1.4	< 3	< 10	20	0.013	3.9	20	< 10	4.0	< 10	0.8	0.128	0.010	1.8
742005	23	< 5	< 5	< 3.0	7.3	< 30	2630	< 10	< 20	1.5	< 3	< 10	20	0.009	3.5	20	< 10	4.5	< 10	0.8	0.132	0.007	1.4
742007	15	< 5	< 5	< 3.0	7.9	< 30	1720	< 10	< 20	1.4	< 3	10	20	0.003	5.1	20	< 10	3.5	< 10	1.0	0.166	0.007	1.6
742008	9	< 5	< 5	< 3.0	6.7	< 30	1900	< 10	< 20	2.6	< 3	10	20	0.006	4.1	20	< 10	3.4	< 10	0.9	0.182	0.005	1.4
742009	3	< 5	< 5	< 3.0	6.7	< 30	2170	< 10	< 20	2.9	< 3	< 10	20	0.006	3.3	20	< 10	3.7	< 10	0.9	0.179	< 0.001	1.6
742010	156	6	< 5	< 3.0	7.9	< 30	1160	< 10	< 20	5.2	< 3	20	50	0.117	6.1	20	< 10	2.2	20	2.1	0.094	0.001	1.9
742011	52	< 5	< 5	< 3.0	6.5	< 30	1050	< 10	< 20	0.8	< 3	< 10	30	0.014	4.3	20	< 10	2.6	< 10	0.9	0.121	0.002	2.5
742012	13	< 5	< 5	< 3.0	8.9	< 30	1330	< 10	< 20	2.8	< 3	< 10	10	0.004	3.9	20	< 10	2.6	< 10	1.0	0.182	0.002	1.8
742013	3	< 5	< 5	< 3.0	7.9	< 30	1840	< 10	< 20	2.9	< 3	10	20	0.017	3.9	< 10	< 10	3.1	< 10	1.0	0.205	0.001	2.1
742014	3	< 5	< 5	< 3.0	7.4	< 30	1370	< 10	< 20	3.2	< 3	< 10	10	0.003	4.0	20	< 10	2.6	< 10	0.9	0.224	0.003	1.3
742015	26	< 5	< 5	< 3.0	7.3	< 30	1890	< 10	< 20	1.6	< 3	10	20	0.011	3.5	10	< 10	4.4	< 10	0.8	0.133	0.002	1.4
742016	12	< 5	< 5	< 3.0	7.8	< 30	1960	< 10	< 20	2.0	50	< 10	10	0.158	4.3	20	< 10	4.2	< 10	1.0	0.196	0.001	1.6
742017	37	< 5	< 5	< 3.0	8.8	40	1190	< 10	< 20	0.9	5	10	10	0.051	4.9	20	< 10	3.8	< 10	0.8	0.109	0.003	1.0
742018	38	< 5	< 5	< 3.0	9.6	< 30	1350	< 10	< 20	1.3	< 3	10	20	0.031	4.9	30	< 10	3.7	< 10	0.7	0.109	0.004	2.0
742019	40	< 5	< 5	< 3.0	9.9	< 30	1410	< 10	< 20	1.1	13	10	10	0.036	4.8	20	< 10	3.5	< 10	0.7	0.109	0.002	2.2
742020	40	< 5	< 5	< 3.0	9.4	< 30	1340	< 10	< 20	1.1	11	< 10	10	0.033	4.4	20	< 10	3.3	< 10	0.6	0.106	0.002	2.2
742021	53	< 5	< 5	< 3.0	9.2	< 30	1160	< 10	< 20	1.0	< 3	< 10	20	0.032	4.8	20	< 10	3.5	< 10	0.6	0.095	0.003	1.6
742022	56	< 5	< 5	< 3.0	9.3	< 30	1020	< 10	< 20	1.6	25	< 10	10	0.010	4.9	30	< 10	2.8	< 10	0.9	0.140	0.002	2.4
742023	44	< 5	< 5	< 3.0	9.3	30	1080	< 10	< 20	1.0	27	< 10	10	0.032	4.8	20	< 10	3.4	< 10	0.9	0.140	0.004	1.8
742024	18	< 5	< 5	< 3.0	9.9	< 30	1410	< 10	< 20	1.6	17	20	< 10	0.017	5.6	20	< 10	2.8	10	1.6	0.188	0.001	2.9
742025	59	< 5	< 5	4.4	9.0	< 30	1090	< 10	< 20	0.6	7	20	10	0.048	4.9	20	< 10	3.7	< 10	0.9	0.118	0.003	1.6
742026	138	< 5	< 5	< 3.0	9.8	< 30	1140	< 10	< 20	1.0	31	< 10	20	0.034	4.9	20	< 10	2.9	< 10	1.0	0.164	0.003	2.8
742027	55	< 5	< 5	< 3.0	9.5	< 30	990	< 10	< 20	0.8	31	< 10	30	0.020	5.0	30	< 10	3.2	< 10	0.9	0.116	0.002	2.1
742028	60	< 5	< 5	< 3.0	9.4	< 30	1510	< 10	< 20	0.7	26	< 10	20	0.075	4.9	20	< 10	4.3	< 10	0.7	0.089	0.001	1.3
742029	39	< 5	< 5	< 3.0	9.4	< 30	1660	< 10	< 20	1.0	8	10	10	0.022	5.3	20	< 10	3.9	< 10	0.7	0.107	0.002	1.7
742030	106	6	< 5	< 3.0	7.8	50	1110	< 10	< 20	5.0	< 3	20	60	0.114	5.8	20	< 10	2.2	20	2.1	0.091	0.002	1.8
742031	37	< 5	< 5	< 3.0	9.7	< 30	1570	< 10	< 20	1.4	< 3	10	10	0.029	5.0	10	< 10	3.4	< 10	0.8	0.150	0.002	1.9
742032	54	< 5	< 5	3.9	9.3	40	1800	< 10	< 20	1.3	4	10	10	0.037	4.9	20	< 10	3.4	< 10	0.8	0.142	< 0.001	2.6
742033	27	< 5	< 5	< 3.0	9.9	< 30	1760	< 10	< 20	1.2	6	10	20	0.032	4.5	30	< 10	3.5	< 10	0.6	0.140	0.002	3.0
742034	54	< 5	< 5	3.7	10.3	< 30	940	< 10	< 20	0.4	4	< 10	10	0.034	4.5	20	< 10	4.0	< 10	0.5	0.064	0.005	1.4
742035	59	< 5	< 5	< 3.0	9.9	< 30	860	< 10	< 20	0.4	7	10	10	0.054	4.9	20	< 10	4.1	< 10	0.6	0.067	0.002	0.9
742036	13	< 5	< 5	< 3.0	8.8	< 30	1280	< 10	< 20	1.3	< 3	10	10	0.014	4.5	20	< 10	3.5	< 10	0.8	0.126	0.003	2.0
742037	36	< 5	< 5	< 3.0	9.1	< 30	980	< 10	< 20	1.2	4	10	10	0.035	4.0	20	< 10	3.8	< 10	0.6	0.127	0.001	2.4
742038	48	< 5	< 5	< 3.0	9.2	< 30	1050	< 10	< 20	1.0	19	< 10	20	0.043	4.7	20	< 10	3.7	< 10	0.6	0.118	0.001	2.4
742039	68	< 5	< 5	< 3.0	9.7	50	930	< 10	< 20	1.6	36	10	10	0.022	5.1	20	< 10	2.9	< 10	0.9	0.164	0.004	2.3
742040	61	< 5	< 5	< 3.0	9.7	50	950	< 10	< 20	1.6	35	10	10	0.022	5.0	30	< 10	3.0	< 10	0.9	0.181	0.003	2.4
742041	33	< 5	< 5	< 3.0	8.4	30	870	< 10	< 20	1.5	5	< 10	10	0.012	4.4	20	< 10	2.8	< 10	0.6	0.133	0.002	2.6
742042	72	< 5	< 5	< 3.0	9.9	150	720	< 10	< 20	1.1	< 3	< 10	20	0.003	4.7	30	< 10	3.1	< 10	0.7	0.134	0.022	2.2
742043	31	< 5	< 5	< 3.0	8.5	50	820	< 10	< 20	0.9	4	10	10	0.014	4.3	20	< 10	3.2	< 10	0.6	0.100	0.007	1.6
742044	11	< 5	< 5	< 3.0	9.9	< 30	940	< 10	< 20	0.3	< 3	< 10	20	0.008	3.0	20	< 10	4.3	< 10	0.4	0.054	0.005	0.8

Results

Activation Laboratories Ltd.

Report: A17-09418

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	%	%														
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																			
742045	28	< 5	< 5	< 3.0	9.4	< 30	680	< 10	< 20	1.1	< 3	< 10	10	0.008	4.0	20	< 10	3.0	< 10	0.5	0.087	0.003	2.0	
742046	34	< 5	< 5	< 3.0	9.5	< 30	1080	< 10	< 20	1.5	< 3	10	10	0.015	4.2	20	< 10	3.1	< 10	0.7	0.123	0.002	2.2	
742047	26	< 5	< 5	< 3.0	9.9	50	1100	< 10	< 20	0.8	3	< 10	20	0.008	4.3	20	< 10	4.0	< 10	0.5	0.095	0.006	1.2	
742048	11	< 5	< 5	< 3.0	10.1	< 30	1050	< 10	< 20	1.0	9	10	10	0.032	4.5	30	< 10	3.4	< 10	0.6	0.106	0.001	2.2	
742049	34	< 5	< 5	< 3.0	10.1	< 30	1060	< 10	< 20	0.9	8	10	10	0.057	4.6	30	< 10	3.6	< 10	0.7	0.123	< 0.001	2.0	
742050	235	< 5	< 5	< 3.0	7.6	< 30	1510	< 10	< 20	2.1	< 3	20	130	0.191	4.5	20	< 10	3.8	10	1.0	0.038	0.018	1.0	
742051	32	< 5	< 5	< 3.0	10.3	40	1080	< 10	< 20	0.5	< 3	20	20	0.059	4.9	20	< 10	4.1	< 10	0.9	0.108	0.001	1.2	
742052	43	< 5	< 5	< 3.0	9.1	< 30	1590	< 10	< 20	2.4	5	10	30	0.015	4.5	20	< 10	3.0	< 10	1.1	0.221	0.004	1.5	
742053	6	< 5	< 5	< 3.0	8.4	< 30	1900	< 10	< 20	2.5	< 3	< 10	20	0.090	4.4	20	< 10	2.7	< 10	1.0	0.211	0.005	1.8	
742054	23	< 5	< 5	< 3.0	6.9	< 30	2010	< 10	< 20	2.0	7	< 10	20	0.009	4.2	20	< 10	3.4	< 10	1.0	0.210	0.003	1.5	
742055	4	< 5	< 5	< 3.0	8.4	< 30	2290	< 10	< 20	1.6	11	< 10	10	0.020	4.3	30	< 10	3.4	< 10	1.1	0.192	0.002	1.6	
742056	7	< 5	< 5	< 3.0	7.9	< 30	790	< 10	< 20	0.3	4	< 10	20	0.039	2.1	30	< 10	3.0	< 10	0.4	0.031	0.002	1.0	
742057	10	< 5	< 5	< 3.0	9.0	< 30	1510	< 10	< 20	0.8	9	< 10	30	0.038	2.4	20	< 10	3.0	< 10	0.5	0.051	< 0.001	2.5	
742058	15	< 5	< 5	< 3.0	9.0	< 30	890	< 10	< 20	0.1	6	< 10	10	0.060	2.3	20	< 10	4.1	< 10	0.4	0.021	0.002	0.4	
742059	34	< 5	< 5	< 3.0	9.3	< 30	790	< 10	< 20	< 0.1	10	< 10	20	0.037	2.7	20	< 10	4.0	< 10	0.3	0.028	0.003	0.5	
742060	27	< 5	< 5	< 3.0	9.2	< 30	780	< 10	< 20	< 0.1	10	< 10	10	0.037	2.7	20	< 10	3.9	< 10	0.3	0.026	0.003	0.5	
742061	13	< 5	< 5	< 3.0	9.2	< 30	710	< 10	< 20	0.2	20	10	20	0.080	2.9	20	< 10	3.4	< 10	0.5	0.039	0.002	0.9	
742062	2	< 5	< 5	< 3.0	8.9	< 30	820	< 10	< 20	0.7	5	< 10	30	0.061	2.4	20	< 10	2.8	< 10	0.6	0.082	0.002	2.3	
742063	4	< 5	< 5	< 3.0	8.9	< 30	750	< 10	< 20	0.7	< 3	10	20	0.046	2.7	30	< 10	2.5	< 10	0.6	0.073	0.001	2.5	
742064	7	< 5	< 5	< 3.0	8.5	< 30	890	< 10	< 20	0.6	< 3	< 10	20	0.015	2.1	30	< 10	3.0	< 10	0.5	0.057	0.008	1.2	
742065	3	< 5	< 5	< 3.0	6.7	< 30	1150	< 10	< 20	0.7	29	< 10	30	0.015	2.3	20	< 10	2.9	< 10	0.6	0.076	0.005	1.4	
742066	4	< 5	< 5	< 3.0	6.9	< 30	920	< 10	< 20	0.5	23	< 10	30	0.039	2.4	20	< 10	3.2	< 10	0.4	0.049	0.004	0.6	
742067	3	< 5	< 5	< 3.0	8.3	< 30	1070	< 10	< 20	0.2	< 3	< 10	20	0.021	1.9	30	< 10	3.7	< 10	0.5	0.033	< 0.001	0.1	
742068	2	< 5	< 5	< 3.0	8.6	< 30	1050	< 10	< 20	0.6	23	< 10	10	0.012	2.0	20	< 10	3.0	< 10	0.5	0.058	0.002	1.7	
742069	< 2	< 5	< 5	< 3.0	8.3	< 30	1370	< 10	< 20	0.8	< 3	< 10	20	0.031	2.1	20	< 10	2.6	< 10	0.5	0.065	< 0.001	2.7	
742070	188	< 5	< 5	< 3.0	7.9	50	1530	< 10	< 20	2.1	< 3	20	110	0.184	4.5	20	< 10	3.9	10	1.0	0.040	0.018	1.0	
742071	3	< 5	< 5	< 3.0	8.7	< 30	1450	< 10	< 20	0.7	3	< 10	20	0.109	2.1	20	< 10	2.6	< 10	0.6	0.066	0.001	3.0	
742072	< 2	< 5	< 5	< 3.0	9.1	< 30	1040	< 10	< 20	2.4	32	< 10	20	0.049	2.7	30	< 10	2.6	< 10	0.5	0.110	< 0.001	2.4	
742073	< 2	< 5	< 5	< 3.0	8.8	< 30	1240	< 10	< 20	0.7	17	< 10	20	0.079	2.4	20	< 10	3.2	< 10	0.6	0.079	< 0.001	2.6	
742074	11	< 5	< 5	< 3.0	8.4	< 30	1030	< 10	< 20	0.6	15	< 10	20	0.196	2.9	20	< 10	3.0	< 10	0.6	0.069	< 0.001	2.4	
742075	5	< 5	< 5	< 3.0	8.5	< 30	990	< 10	< 20	0.5	19	10	20	0.238	2.6	30	< 10	3.1	< 10	0.5	0.051	0.003	2.1	
742076	9	< 5	< 5	< 3.0	9.2	< 30	950	< 10	< 20	0.1	20	< 10	20	0.125	2.2	30	< 10	4.1	< 10	0.3	0.018	0.001	0.3	
742077	< 2	< 5	< 5	< 3.0	8.7	< 30	880	< 10	< 20	0.9	< 3	< 10	20	0.006	2.1	20	< 10	3.1	< 10	0.5	0.073	0.002	1.4	
742078	4	< 5	< 5	< 3.0	7.9	< 30	840	< 10	< 20	0.9	< 3	< 10	20	0.017	2.9	20	< 10	3.0	< 10	0.6	0.090	0.014	1.1	
742079	11	< 5	< 5	< 3.0	8.1	< 30	910	< 10	< 20	0.6	9	10	10	0.078	3.4	20	< 10	3.9	< 10	0.5	0.069	0.039	0.6	
742080	15	< 5	< 5	< 3.0	8.7	30	970	< 10	< 20	0.6	8	< 10	20	0.084	3.7	20	< 10	4.1	< 10	0.6	0.070	0.042	0.7	
742081	8	< 5	< 5	< 3.0	9.4	< 30	1250	< 10	< 20	0.7	24	< 10	20	0.254	2.6	10	< 10	3.4	< 10	0.6	0.065	0.025	2.0	
742082	6	< 5	< 5	< 3.0	7.9	< 30	820	< 10	< 20	0.4	19	< 10	30	0.063	2.6	10	< 10	3.7	< 10	0.5	0.046	0.019	0.5	
742083	9	< 5	< 5	< 3.0	7.4	< 30	860	< 10	< 20	0.3	16	< 10	30	0.134	3.1	30	< 10	3.9	< 10	0.4	0.038	0.007	0.2	
742084	13	< 5	< 5	< 3.0	7.6	30	830	< 10	< 20	0.5	23	< 10	20	0.154	2.6	10	< 10	3.8	< 10	0.4	0.047	0.031	0.4	
742085	5	< 5	< 5	< 3.0	8.1	< 30	990	< 10	< 20	0.3	< 3	< 10	20	0.180	3.7	20	< 10	4.0	< 10	0.5	0.045	0.010	0.1	
742086	5	< 5	< 5	< 3.0	8.0	< 30	1020	< 10	< 20	0.2	< 3	< 10	20	0.013	2.0	10	< 10	4.0	< 10	0.3	0.024	0.018	< 0.1	

Results**Activation Laboratories Ltd.****Report: A17-09418**

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742087	< 2	< 5	< 5	< 3.0	7.1	< 30	290	< 10	< 20	0.4	< 3	< 10	20	< 0.001	1.0	20	< 10	4.3	10	< 0.1	0.023	< 0.001	2.6
742088	21	< 5	< 5	< 3.0	7.6	< 30	940	< 10	< 20	0.3	3	< 10	20	0.095	2.1	10	< 10	3.9	< 10	0.4	0.039	0.022	0.4
742089	63	< 5	< 5	< 3.0	7.0	40	800	< 10	< 20	0.2	< 3	< 10	20	0.088	2.2	20	< 10	3.0	10	0.4	0.036	0.015	0.9
742090	288	5	< 5	< 3.0	8.0	80	510	< 10	< 20	1.5	< 3	20	60	0.303	5.2	20	< 10	4.7	10	1.5	0.055	0.016	1.6
742091	44	< 5	< 5	< 3.0	8.8	< 30	1100	< 10	< 20	0.2	6	< 10	30	0.103	3.4	30	< 10	4.0	< 10	0.5	0.034	0.005	0.5

Results

Activation Laboratories Ltd.

Report: A17-09418

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
742002	< 0.001	0.09	40	0.7	< 50	< 40	370	< 20	0.3	< 50	< 100	60	< 50	10	0.007	50	0.293	1	0.120	3.5	0.3	3	0.123
742003	< 0.001	0.09	50	0.6	< 50	< 40	380	< 20	0.3	< 50	< 100	70	< 50	20	0.006	60	0.364	1	0.140	4.1	0.4	3	0.127
742004	< 0.001	0.10	180	0.9	< 50	< 40	290	< 20	0.3	< 50	< 100	90	< 50	20	0.008	70	0.162	< 1	0.083	3.2	0.2	1	0.043
742005	< 0.001	0.06	160	0.6	< 50	< 40	280	< 20	0.3	< 50	< 100	80	< 50	20	0.008	60	0.147	< 1	0.058	3.7	0.3	< 1	0.044
742007	< 0.001	0.08	60	2.0	< 50	< 40	200	< 20	0.3	< 50	< 100	80	< 50	20	0.009	60	0.149	2	0.067	4.4	0.2	1	0.041
742008	< 0.001	0.07	70	0.8	< 50	< 40	290	< 20	0.3	< 50	< 100	80	< 50	20	0.008	60	0.160	< 1	0.075	4.3	0.3	3	0.053
742009	< 0.001	0.07	50	0.2	< 50	< 40	340	< 20	0.2	< 50	< 100	60	< 50	20	0.008	50	0.170	< 1	0.067	3.9	0.3	2	0.046
742010	0.003	0.13	< 30	1.4	< 50	< 40	350	< 20	0.5	< 50	< 100	230	< 50	20	0.010	70	0.041	1	0.117	12.8	0.5	6	0.106
742011	< 0.001	0.09	50	2.2	< 50	< 40	250	< 20	0.3	< 50	< 100	50	< 50	10	0.011	50	0.110	2	0.117	5.2	0.3	2	0.084
742012	< 0.001	0.07	40	0.7	< 50	< 40	330	< 20	0.3	< 50	< 100	80	< 50	20	0.008	70	0.140	< 1	0.067	4.2	0.3	3	0.053
742013	< 0.001	0.07	210	0.8	< 50	< 40	300	< 20	0.3	< 50	< 100	90	< 50	20	0.014	70	0.169	< 1	0.075	4.2	0.2	3	0.061
742014	< 0.001	0.05	90	0.5	< 50	< 40	320	< 20	0.3	< 50	< 100	90	< 50	20	0.008	60	0.161	< 1	0.050	4.4	0.3	< 1	0.041
742015	< 0.001	0.04	180	1.3	< 50	< 40	230	< 20	0.3	< 50	< 100	70	< 50	20	0.018	60	0.164	1	0.050	3.6	0.2	2	0.050
742016	< 0.001	0.07	1670	1.7	< 50	< 40	280	< 20	0.3	< 50	< 100	90	< 50	20	0.196	70	0.212	2	0.067	4.7	0.3	2	0.044
742017	< 0.001	0.22	70	2.6	< 50	< 40	160	90	0.3	< 50	< 100	80	< 50	20	0.008	60	0.117	2	0.200	3.4	0.4	1	0.035
742018	< 0.001	0.24	70	2.3	< 50	< 40	280	< 20	0.3	< 50	< 100	60	< 50	20	0.007	50	0.114	2	0.233	3.4	0.4	2	0.040
742019	< 0.001	0.26	70	3.0	< 50	< 40	250	< 20	0.3	< 50	< 100	60	< 50	20	0.018	60	0.133	3	0.275	3.7	0.5	2	0.049
742020	< 0.001	0.22	70	2.8	< 50	< 40	260	< 20	0.3	< 50	< 100	50	< 50	20	0.018	50	0.126	3	0.233	3.3	0.4	2	0.046
742021	0.001	0.26	50	2.8	< 50	< 40	230	< 20	0.3	< 50	< 100	50	< 50	20	0.005	50	0.095	3	0.267	2.8	0.5	1	0.043
742022	< 0.001	0.14	110	1.0	< 50	< 40	260	30	0.3	< 50	< 100	50	< 50	20	0.033	< 50	0.134	1	0.158	5.3	0.4	1	0.055
742023	< 0.001	0.16	120	3.0	< 50	< 40	220	30	0.3	< 50	< 100	50	< 50	20	0.018	< 50	0.120	3	0.167	4.7	0.4	1	0.049
742024	< 0.001	0.18	150	1.4	< 50	< 40	320	90	0.5	< 50	< 100	160	< 50	20	0.036	70	0.456	3	0.267	21.8	1.2	19	0.079
742025	< 0.001	0.13	< 30	2.6	< 50	< 40	140	< 20	0.3	< 50	< 100	60	< 50	20	0.017	< 50	0.172	5	0.227	7.0	0.6	7	0.081
742026	< 0.001	0.14	< 30	2.7	< 50	< 40	260	< 20	0.3	< 50	< 100	50	< 50	20	0.094	< 50	0.248	6	0.240	8.7	0.5	7	0.090
742027	< 0.001	0.18	60	2.8	< 50	< 40	190	< 20	0.3	< 50	< 100	60	< 50	20	0.046	< 50	0.102	3	0.183	4.5	0.3	< 1	0.049
742028	< 0.001	0.20	90	3.6	< 50	< 40	170	< 20	0.3	< 50	< 100	60	< 50	20	0.030	50	0.092	3	0.183	2.8	0.4	< 1	0.034
742029	< 0.001	0.17	50	2.8	< 50	< 40	240	< 20	0.3	< 50	< 100	50	< 50	20	0.012	< 50	0.126	3	0.183	3.6	0.4	3	0.047
742030	0.003	0.13	30	1.3	< 50	< 40	340	< 20	0.4	< 50	< 100	210	< 50	20	0.010	70	0.046	1	0.133	15.2	0.6	6	0.126
742031	< 0.001	0.22	60	1.7	< 50	< 40	290	< 20	0.3	< 50	< 100	60	< 50	20	0.009	< 50	0.111	2	0.217	4.2	0.4	< 1	0.038
742032	< 0.001	0.13	40	1.7	< 50	< 40	380	30	0.3	< 50	< 100	60	< 50	20	0.015	< 50	0.195	2	0.142	4.8	0.4	1	0.074
742033	< 0.001	0.12	110	1.2	< 50	< 40	380	< 20	0.3	< 50	< 100	60	< 50	20	0.017	50	0.171	1	0.117	3.4	0.3	1	0.061
742034	< 0.001	0.10	< 30	2.5	< 50	< 40	100	< 20	0.3	< 50	< 100	80	< 50	20	0.011	60	0.051	2	0.092	1.9	0.4	1	0.036
742035	< 0.001	0.14	< 30	3.3	< 50	< 40	60	20	0.3	< 50	< 100	120	< 50	20	0.009	60	0.046	3	0.133	2.6	0.4	< 1	0.030
742036	< 0.001	0.10	< 30	1.3	< 50	< 40	210	< 20	0.3	< 50	< 100	90	< 50	20	0.007	50	0.302	3	0.193	7.7	0.7	7	0.102
742037	< 0.001	0.10	40	2.2	< 50	< 40	230	< 20	0.3	< 50	< 100	100	< 50	20	0.009	60	0.163	2	0.108	2.6	0.3	< 1	0.056
742038	< 0.001	0.10	120	2.8	< 50	< 40	210	50	0.3	< 50	< 100	120	< 50	20	0.054	60	0.143	3	0.100	2.8	0.3	< 1	0.061
742039	< 0.001	0.12	100	2.7	< 50	< 40	260	< 20	0.4	< 50	< 100	130	< 50	20	0.097	60	0.156	3	0.125	4.8	0.4	2	0.055
742040	< 0.001	0.12	130	2.6	< 50	< 40	260	< 20	0.3	< 50	< 100	130	< 50	20	0.094	60	0.160	3	0.133	5.0	0.4	3	0.068
742041	< 0.001	0.12	50	1.1	< 50	< 40	230	20	0.3	< 50	< 100	100	< 50	20	0.014	50	0.144	1	0.125	3.7	0.4	< 1	0.051
742042	< 0.001	0.10	< 30	1.9	< 50	< 40	180	< 20	0.4	< 50	< 100	120	< 50	20	0.008	60	0.100	2	0.083	3.3	0.2	< 1	0.047
742043	< 0.001	0.10	40	2.0	< 50	< 40	140	< 20	0.3	< 50	< 100	110	< 50	20	0.010	50	0.129	2	0.125	3.2	0.4	1	0.039
742044	< 0.001	0.13	70	1.1	< 50	< 40	60	< 20	0.3	< 50	< 100	120	< 50	20	0.008	60	0.074	1	0.142	1.7	0.3	< 1	0.028

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742045	< 0.001	0.10	< 30	1.8	< 50	< 40	170	< 20	0.3	< 50	< 100	120	< 50	20	0.006	50	0.097	2	0.117	2.6	0.3	1	0.043
742046	< 0.001	0.10	< 30	1.8	< 50	< 40	240	< 20	0.4	< 50	< 100	130	< 50	20	0.006	60	0.111	2	0.100	2.5	0.3	1	0.041
742047	< 0.001	0.12	< 30	1.9	< 50	< 40	130	< 20	0.4	< 50	< 100	140	< 50	20	0.008	50	0.269	4	0.200	3.9	0.7	8	0.058
742048	< 0.001	0.10	< 30	1.5	< 50	< 40	190	30	0.4	< 50	< 100	140	< 50	20	0.028	50	0.297	3	0.173	4.8	0.5	6	0.083
742049	< 0.001	0.13	40	2.7	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	20	0.027	50	0.132	3	0.133	2.8	0.4	< 1	0.037
742050	0.001	0.07	30	1.7	< 50	< 40	200	< 20	0.3	< 50	< 100	110	< 50	20	0.006	< 50	0.037	2	0.058	7.0	0.5	6	0.059
742051	< 0.001	0.16	< 30	2.7	< 50	< 40	90	< 20	0.4	< 50	< 100	170	< 50	20	0.011	60	0.105	3	0.150	3.2	0.5	< 1	0.031
742052	< 0.001	0.14	90	1.0	< 50	< 40	330	< 20	0.3	< 50	< 100	100	< 50	20	0.013	80	0.163	1	0.142	4.7	0.5	< 1	0.036
742053	< 0.001	0.11	60	1.4	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	20	0.009	70	0.154	2	0.125	4.0	0.3	< 1	0.042
742054	< 0.001	0.12	150	1.3	< 50	< 40	260	20	0.3	< 50	< 100	90	< 50	20	0.020	70	0.135	1	0.108	3.6	0.3	< 1	0.036
742055	< 0.001	0.22	160	1.2	< 50	< 40	290	< 20	0.3	< 50	< 100	100	< 50	20	0.020	80	0.151	1	0.233	4.7	0.5	< 1	0.044
742056	< 0.001	0.06	< 30	1.3	< 50	< 40	100	< 20	0.2	< 50	< 100	40	< 50	< 10	0.002	< 50	0.028	2	0.067	1.3	0.3	< 1	0.031
742057	< 0.001	0.05	< 30	1.4	< 50	< 40	280	< 20	0.2	< 50	< 100	50	< 50	< 10	0.010	50	0.068	1	0.050	2.5	0.3	2	0.061
742058	< 0.001	0.04	40	1.5	< 50	< 40	60	20	0.2	< 50	< 100	50	< 50	< 10	0.003	50	0.011	2	0.050	0.8	0.3	< 1	0.027
742059	< 0.001	0.04	30	2.1	< 50	< 40	50	< 20	0.2	< 50	< 100	50	< 50	< 10	0.002	60	0.005	2	0.033	0.7	0.2	< 1	0.027
742060	< 0.001	0.03	< 30	2.1	< 50	< 40	50	< 20	0.2	< 50	< 100	50	< 50	< 10	0.002	60	0.004	2	0.033	0.7	0.2	< 1	0.025
742061	< 0.001	0.09	< 30	2.0	< 50	< 40	60	< 20	0.2	< 50	< 100	50	< 50	< 10	0.005	60	0.021	2	0.092	1.3	0.2	1	0.029
742062	< 0.001	0.04	< 30	0.6	< 50	< 40	170	< 20	0.2	< 50	< 100	50	< 50	< 10	0.006	60	0.075	< 1	0.042	2.3	0.3	< 1	0.043
742063	< 0.001	0.03	< 30	0.9	< 50	< 40	180	< 20	0.2	< 50	< 100	50	< 50	< 10	0.005	50	0.068	< 1	0.033	2.2	0.2	< 1	0.050
742064	< 0.001	0.05	< 30	0.5	< 50	< 40	110	< 20	0.2	< 50	< 100	50	< 50	< 10	0.007	< 50	0.057	< 1	0.050	1.9	0.3	2	0.034
742065	< 0.001	0.04	120	0.6	< 50	< 40	130	< 20	0.2	< 50	< 100	40	< 50	< 10	0.015	< 50	0.073	< 1	0.042	2.2	0.2	2	0.035
742066	< 0.001	0.05	180	0.9	< 50	< 40	90	< 20	0.2	< 50	< 100	50	< 50	< 10	0.022	< 50	0.122	2	0.087	2.7	0.6	6	0.045
742067	< 0.001	0.04	40	< 0.1	< 50	< 40	40	30	0.2	< 50	< 100	50	< 50	< 10	0.004	< 50	0.036	< 1	0.038	1.0	0.3	< 1	0.019
742068	< 0.001	0.06	100	0.5	< 50	< 40	190	20	0.2	< 50	< 100	50	< 50	< 10	0.012	< 50	0.080	< 1	0.062	2.2	0.3	< 1	0.038
742069	< 0.001	0.04	< 30	0.3	< 50	< 40	290	< 20	0.2	< 50	< 100	40	< 50	< 10	0.004	< 50	0.116	< 1	0.046	2.6	0.2	< 1	0.079
742070	0.002	0.08	< 30	1.8	< 50	< 40	210	20	0.3	< 50	< 100	110	< 50	20	0.006	< 50	0.045	2	0.069	8.7	0.6	8	0.074
742071	< 0.001	0.05	< 30	0.6	< 50	< 40	280	< 20	0.2	< 50	< 100	40	< 50	< 10	0.004	50	0.108	< 1	0.054	2.9	0.2	< 1	0.071
742072	< 0.001	0.07	130	0.5	< 50	< 40	410	< 20	0.2	< 50	< 100	50	< 50	10	0.015	50	0.117	< 1	0.077	3.0	0.5	1	0.051
742073	< 0.001	0.06	110	1.1	< 50	< 40	240	< 20	0.2	< 50	< 100	40	< 50	< 10	0.010	50	0.093	1	0.069	2.8	0.3	< 1	0.060
742074	< 0.001	0.07	< 30	1.8	< 50	< 40	240	20	0.2	< 50	< 100	40	< 50	< 10	0.006	< 50	0.069	2	0.069	2.2	0.3	< 1	0.062
742075	< 0.001	0.08	< 30	1.6	< 50	< 40	160	< 20	0.2	< 50	< 100	50	< 50	< 10	0.004	< 50	0.059	2	0.085	1.9	0.3	< 1	0.049
742076	< 0.001	0.09	< 30	1.4	< 50	< 40	40	< 20	0.2	< 50	< 100	50	< 50	10	0.002	< 50	0.005	2	0.085	0.8	0.2	< 1	0.024
742077	< 0.001	0.10	< 30	0.3	< 50	< 40	190	< 20	0.2	< 50	< 100	50	< 50	10	0.005	< 50	0.046	< 1	0.092	2.4	0.3	< 1	0.036
742078	< 0.001	0.07	< 30	0.7	< 50	< 40	160	< 20	0.2	< 50	< 100	40	< 50	10	0.005	< 50	0.083	< 1	0.077	3.2	0.4	1	0.033
742079	< 0.001	0.10	40	2.1	< 50	< 40	120	< 20	0.2	< 50	< 100	50	< 50	10	0.010	< 50	0.086	2	0.100	1.6	0.3	< 1	0.019
742080	< 0.001	0.11	60	2.3	< 50	< 40	120	< 20	0.2	< 50	< 100	50	< 50	10	0.011	< 50	0.099	3	0.108	1.9	0.4	1	0.022
742081	< 0.001	0.12	150	1.5	< 50	< 40	290	< 20	0.2	< 50	< 100	50	< 50	10	0.012	< 50	0.081	2	0.131	2.7	0.4	1	0.044
742082	< 0.001	0.09	70	1.2	< 50	< 40	60	< 20	0.2	< 50	< 100	50	< 50	10	0.010	< 50	0.072	1	0.092	1.2	0.4	< 1	0.020
742083	< 0.001	0.06	50	1.2	< 50	< 40	40	20	0.2	< 50	< 100	50	< 50	< 10	0.007	< 50	0.073	2	0.069	1.2	0.2	< 1	0.021
742084	< 0.001	0.09	< 30	0.9	< 50	< 40	90	< 20	0.2	< 50	< 100	40	< 50	10	0.006	< 50	0.068	1	0.108	1.8	0.4	1	0.024
742085	< 0.001	0.10	< 30	0.5	< 50	< 40	60	30	0.2	< 50	< 100	50	< 50	10	0.004	< 50	0.075	< 1	0.100	1.7	0.4	< 1	0.019
742086	< 0.001	0.10	< 30	0.2	< 50	< 40	30	< 20	0.2	< 50	< 100	50	< 50	< 10	0.004	< 50	0.051	< 1	0.100	0.8	0.4	1	0.019

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
742087	< 0.001	0.01	< 30	< 0.1	< 50	< 40	90	< 20	0.1	< 50	< 100	< 20	< 50	20	0.001	70	0.016	< 1	0.015	7.7	0.7	< 1	0.094
742088	< 0.001	0.16	170	1.0	< 50	< 40	70	30	0.2	< 50	< 100	50	< 50	10	0.020	50	0.054	1	0.162	1.0	0.5	< 1	0.021
742089	< 0.001	0.08	90	1.3	< 50	< 40	90	< 20	0.2	< 50	< 100	40	< 50	10	0.014	< 50	0.039	2	0.085	1.5	0.5	4	0.032
742090	0.003	0.11	< 30	2.3	< 50	< 40	280	< 20	0.5	< 50	< 100	240	< 50	20	0.008	60	0.188	3	0.123	9.4	0.7	4	0.103
742091	< 0.001	0.06	< 30	2.7	< 50	< 40	70	< 20	0.2	< 50	< 100	40	< 50	< 10	0.011	< 50	0.008	3	0.054	1.5	0.3	< 1	0.026

Results

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Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742002	0.61	3.00	0.69	1.13	0.39	7.5	52	14	963	5.00	2.4	3.7	111	64.8	10.8	0.1	8.4	24.9	134	10.1	4.1	0.4	16.1
742003	0.76	3.52	0.73	1.67	0.71	8.2	69	15	1270	5.21	6.4	4.6	79.4	64.8	12.5	0.1	11.0	25.1	171	14.7	7.4	0.6	17.3
742004	0.64	1.66	0.34	1.37	0.48	3.1	49	5	1010	2.96	5.5	4.0	125	81.9	5.97	< 0.1	20.5	14.4	87.8	8.17	6.8	0.2	80.3
742005	0.69	1.83	0.37	0.74	0.63	3.2	49	7	1110	2.91	6.9	6.0	89.1	83.8	6.16	< 0.1	16.4	13.3	83.9	8.00	11.4	0.2	64.7
742007	0.78	1.90	0.43	0.49	0.58	2.5	36	5	1230	3.65	10.6	2.7	30.0	82.4	5.59	< 0.1	21.2	15.6	42.7	7.92	10.4	0.2	52.9
742008	0.86	2.45	0.51	0.63	1.13	3.2	43	10	1270	2.97	7.9	7.9	59.2	86.1	6.70	< 0.1	6.3	16.8	82.7	7.98	7.1	0.2	39.2
742009	0.88	1.96	0.23	0.39	1.22	3.2	47	10	1200	2.27	6.7	4.0	52.5	95.0	5.97	< 0.1	3.8	7.0	89.0	7.54	7.7	0.3	5.25
742010	1.58	1.92	0.40	0.29	4.08	9.5	137	35	766	4.84	21.2	26.6	1030	99.0	6.64	< 0.1	36.3	16.7	106	10.6	2.7	< 0.1	12.8
742011	0.88	2.64	0.79	1.33	0.37	4.3	25	6	1050	4.20	8.3	6.2	148	130	6.79	< 0.1	6.7	26.9	71.3	9.16	6.5	0.2	19.0
742012	0.87	2.33	0.39	0.47	1.15	3.0	36	8	1310	2.81	9.8	21.9	40.8	85.2	6.30	< 0.1	3.8	12.5	91.9	7.27	5.3	0.2	18.2
742013	0.94	2.12	0.24	0.51	1.27	3.0	49	9	1590	3.00	9.2	2.4	173	160	6.64	< 0.1	4.6	7.3	74.4	7.19	9.1	0.3	10.3
742014	0.90	2.44	0.33	0.56	1.43	2.0	44	8	1710	2.99	10.7	2.2	32.5	99.2	6.94	< 0.1	3.7	11.2	103	7.16	9.2	0.3	28.9
742015	0.74	1.79	0.35	0.35	0.76	2.3	41	17	1120	2.92	8.4	2.3	83.1	205	5.20	< 0.1	24.0	12.2	52.5	7.67	9.5	0.3	15.5
742016	0.88	1.88	0.28	0.57	0.90	4.1	53	7	1600	3.50	9.1	2.4	1510	2020	5.95	< 0.1	11.4	10.0	65.4	9.19	14.0	0.3	7.75
742017	0.54	2.08	0.57	1.74	0.42	3.5	33	5	991	4.11	11.4	2.2	483	73.0	4.84	< 0.1	39.9	19.6	52.0	10.4	2.7	0.2	18.8
742018	0.46	2.05	0.52	1.30	0.57	3.5	21	7	840	3.72	11.2	5.0	290	62.6	4.84	< 0.1	20.4	18.7	83.5	9.05	4.7	0.4	30.3
742019	0.51	2.35	0.62	1.49	0.56	4.1	23	6	893	4.27	12.7	3.1	376	196	5.40	< 0.1	22.4	21.6	77.7	10.4	7.0	0.5	17.4
742020	0.47	2.02	0.52	1.31	0.51	3.1	20	5	836	3.87	11.6	9.7	334	197	4.77	< 0.1	22.2	17.8	70.6	9.00	6.3	0.4	16.1
742021	0.40	2.17	0.65	1.67	0.47	3.7	21	7	713	4.19	11.4	2.9	322	60.5	4.92	< 0.1	19.7	21.3	81.8	9.66	4.4	0.3	27.5
742022	0.77	2.32	0.53	0.47	0.72	3.8	25	6	1110	4.20	10.9	2.8	109	351	6.42	< 0.1	13.8	18.6	83.1	8.75	3.7	0.3	20.9
742023	0.70	2.33	0.67	1.17	0.49	3.1	22	7	1200	4.24	12.2	2.9	317	184	5.81	< 0.1	15.7	21.9	58.2	8.73	4.0	0.2	33.2
742024	1.88	6.37	0.59	0.87	1.50	23.0	235	13	2380	8.12	30.6	11.3	173	348	17.9	0.1	43.3	18.7	159	18.5	18.0	0.5	21.8
742025	0.98	5.81	1.74	1.96	0.44	6.9	43	18	1830	7.95	22.9	7.1	491	194	11.4	0.1	16.9	50.0	38.1	17.1	1.7	0.2	41.6
742026	1.21	4.84	0.99	1.50	0.64	7.2	44	22	2430	7.88	18.1	7.7	335	948	11.6	0.1	44.6	29.2	49.1	14.1	4.8	0.4	32.6
742027	0.67	2.27	0.62	1.79	0.38	4.0	26	7	1030	4.49	12.8	3.2	216	491	5.96	< 0.1	17.6	22.5	33.0	8.94	3.7	0.2	20.1
742028	0.38	1.92	0.64	1.26	0.34	3.2	19	6	704	4.00	12.4	3.4	694	283	4.11	< 0.1	8.6	23.4	38.4	8.22	3.1	0.2	11.5
742029	0.57	2.26	0.65	1.56	0.54	4.1	24	7	956	4.80	16.2	3.0	228	135	5.67	< 0.1	6.6	22.9	65.0	9.10	6.4	0.3	19.9
742030	1.85	2.22	0.46	0.34	4.57	10.5	155	40	878	5.59	24.0	29.9	1100	110	7.34	< 0.1	39.9	18.3	116	11.9	2.9	< 0.1	14.1
742031	0.63	2.20	0.49	0.92	0.61	3.5	23	6	1170	4.05	14.2	3.0	293	93.6	5.88	< 0.1	12.7	18.4	84.4	9.52	3.3	0.3	19.6
742032	0.72	2.05	0.46	1.61	0.62	4.6	37	8	1230	4.54	14.6	2.9	375	165	6.68	< 0.1	21.9	17.7	88.7	9.21	9.4	0.5	9.93
742033	0.47	1.60	0.40	2.78	0.52	3.9	31	7	1070	3.84	9.3	2.9	311	173	5.51	< 0.1	16.3	14.6	85.7	8.55	5.9	0.4	16.9
742034	0.23	1.71	0.71	2.50	0.21	2.0	22	4	473	3.61	11.0	2.7	330	108	3.93	< 0.1	16.1	24.3	13.8	7.79	2.4	< 0.1	36.6
742035	0.34	1.80	0.64	1.91	0.19	2.0	29	5	567	4.08	13.9	2.9	526	87.7	3.74	< 0.1	19.6	20.4	10.8	7.76	1.5	< 0.1	20.7
742036	1.06	6.47	1.61	1.04	1.10	8.3	80	22	2060	7.34	23.5	8.3	139	86.2	13.5	0.1	29.6	44.7	65.4	18.7	2.6	0.3	45.4
742037	0.40	1.78	0.58	0.64	0.58	3.8	45	6	1030	3.42	10.1	6.3	359	99.0	5.11	< 0.1	16.1	22.1	36.1	8.08	11.2	0.4	14.6
742038	0.44	1.79	0.62	1.05	0.54	4.3	54	5	1070	4.18	10.6	3.1	441	585	5.84	< 0.1	20.5	23.4	31.3	9.35	5.4	0.3	12.7
742039	0.73	2.19	0.53	0.90	0.79	3.8	61	7	1440	4.35	12.0	67.2	220	1030	6.52	< 0.1	49.2	19.5	64.5	9.61	9.2	0.4	33.9
742040	0.77	2.44	0.65	0.91	0.83	4.2	67	7	1530	4.52	11.7	3.5	222	1000	7.14	< 0.1	49.0	22.4	65.7	9.89	7.2	0.3	30.7
742041	0.49	1.76	0.44	0.57	0.69	2.3	54	7	1010	3.67	7.2	2.5	121	140	5.21	< 0.1	34.1	16.1	44.7	8.81	4.6	0.3	16.6
742042	0.43	1.81	0.60	1.25	0.45	2.7	37	4	883	3.24	7.9	2.0	30.0	65.2	4.78	< 0.1	99.7	21.4	31.2	7.60	4.9	0.1	162
742043	0.40	1.83	0.61	1.21	0.53	2.5	41	9	935	3.96	8.4	3.2	159	122	4.36	< 0.1	31.3	20.8	30.5	9.09	4.7	0.3	62.3
742044	0.21	1.52	0.56	0.63	0.21	1.9	27	5	460	2.31	6.1	2.0	75.0	81.2	2.74	< 0.1	12.7	16.1	10.8	8.52	1.3	< 0.1	44.4

Results

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Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742045	0.38	1.79	0.56	0.75	0.49	2.3	37	7	733	3.41	9.7	2.7	90.6	61.1	4.14	< 0.1	31.2	17.0	30.4	7.66	2.6	0.2	25.8
742046	0.43	1.59	0.44	0.92	0.59	2.5	41	6	826	2.89	9.7	2.4	132	52.8	4.15	< 0.1	12.6	13.7	39.8	6.88	2.4	0.2	13.0
742047	0.48	4.79	1.56	1.44	0.66	6.2	74	22	1470	6.23	12.8	6.8	85.1	93.0	8.47	0.1	118	39.0	41.4	17.4	1.6	0.3	59.6
742048	0.63	4.83	1.56	1.40	0.77	6.8	103	26	1610	6.59	20.0	8.9	347	292	10.0	0.1	18.2	39.2	45.1	16.2	1.9	0.3	15.0
742049	0.42	1.74	0.59	1.62	0.42	2.6	42	6	948	3.54	12.5	15.6	527	272	4.39	< 0.1	15.7	19.5	31.0	8.85	4.2	0.2	6.53
742050	0.71	1.67	0.57	1.97	1.57	4.9	58	70	311	3.58	14.9	15.1	1830	58.4	4.76	< 0.1	19.4	29.5	45.2	7.64	3.4	< 0.1	168
742051	0.53	1.95	0.65	1.35	0.30	2.5	42	6	984	3.81	15.2	2.8	540	96.2	4.59	< 0.1	30.2	21.5	17.4	10.9	3.9	0.2	12.5
742052	0.91	2.23	0.33	0.79	1.00	2.3	45	12	1570	3.27	10.9	2.3	144	128	6.42	< 0.1	20.7	11.5	86.5	8.63	6.8	0.5	29.9
742053	0.87	1.96	0.26	3.47	0.95	2.4	43	10	1530	3.54	12.5	2.3	903	106	6.12	< 0.1	4.9	8.2	78.9	7.21	10.1	0.6	40.9
742054	0.76	1.67	0.27	0.98	0.73	2.6	39	10	1440	2.97	10.5	1.8	82.1	188	5.35	< 0.1	29.0	9.3	51.6	7.31	9.2	0.4	20.8
742055	0.96	2.32	0.40	1.26	0.71	2.4	48	9	1600	3.43	13.3	12.1	188	217	6.28	< 0.1	3.8	12.7	67.3	9.89	3.0	0.5	21.8
742056	0.19	1.14	0.46	0.56	0.15	< 0.1	10	7	263	1.81	6.0	1.7	434	28.0	2.79	< 0.1	4.8	12.8	15.7	3.57	4.1	< 0.1	21.1
742057	0.36	1.39	0.43	0.46	0.35	< 0.1	18	12	430	2.00	6.8	2.9	372	95.9	4.34	< 0.1	0.9	12.1	31.8	4.17	6.5	0.1	6.61
742058	0.09	1.17	0.52	0.63	0.08	< 0.1	7	8	96	1.64	7.2	2.0	594	26.3	1.87	< 0.1	0.8	13.6	28.0	3.23	4.4	< 0.1	16.6
742059	0.11	1.03	0.43	0.72	0.04	< 0.1	7	9	168	2.16	9.7	22.9	358	22.7	1.82	< 0.1	1.0	10.9	11.5	2.49	5.0	< 0.1	22.1
742060	0.10	0.95	0.41	0.64	0.04	< 0.1	6	8	152	2.00	8.8	5.6	331	21.3	1.62	< 0.1	0.9	10.2	11.2	2.35	4.2	< 0.1	18.9
742061	0.19	1.27	0.47	0.84	0.11	< 0.1	9	8	268	2.15	9.2	16.8	740	54.2	2.38	< 0.1	3.4	12.8	10.5	3.54	1.7	< 0.1	15.9
742062	0.39	1.34	0.39	0.35	0.28	< 0.1	13	11	603	1.64	6.6	2.5	537	51.8	3.84	< 0.1	1.5	11.9	26.6	3.70	4.7	0.1	17.6
742063	0.40	1.34	0.38	0.36	0.27	< 0.1	14	13	587	2.03	9.1	2.1	434	49.2	4.09	< 0.1	2.0	12.5	26.1	3.78	6.5	< 0.1	8.63
742064	0.31	1.40	0.47	0.46	0.29	< 0.1	13	12	463	1.40	6.6	16.5	155	39.7	3.27	< 0.1	1.5	13.6	28.1	4.01	4.0	< 0.1	69.4
742065	0.38	1.20	0.39	0.52	0.32	< 0.1	15	17	633	1.61	7.8	3.4	141	148	3.57	< 0.1	3.3	11.9	28.8	3.56	4.2	0.1	41.0
742066	0.33	3.27	1.09	1.81	0.48	1.3	24	46	772	3.14	12.3	7.9	386	252	6.23	< 0.1	6.6	26.6	65.1	8.01	3.2	0.2	38.9
742067	0.13	1.07	0.52	0.28	0.14	< 0.1	10	10	231	1.05	2.6	1.7	199	24.2	3.06	< 0.1	0.8	18.9	23.7	3.72	2.4	< 0.1	8.07
742068	0.28	1.24	0.40	0.44	0.27	< 0.1	14	8	487	1.39	5.9	2.5	120	118	3.70	< 0.1	1.7	15.1	40.6	4.92	1.0	< 0.1	17.7
742069	0.40	1.21	0.37	0.21	0.40	< 0.1	22	12	551	1.70	5.1	2.7	317	41.8	5.26	< 0.1	0.8	12.6	57.0	4.40	6.4	0.2	6.16
742070	0.81	1.90	0.72	2.34	1.85	4.7	69	83	389	4.37	18.4	23.7	1820	70.1	5.84	< 0.1	23.8	38.4	58.3	9.67	4.2	< 0.1	146
742071	0.41	1.08	0.26	0.23	0.37	< 0.1	22	12	568	1.76	5.3	3.0	1060	47.7	5.05	< 0.1	1.0	9.5	46.7	4.60	6.1	0.1	4.36
742072	0.39	1.66	0.31	0.51	1.13	< 0.1	23	12	785	1.78	5.5	3.0	484	164	6.40	< 0.1	1.8	10.8	151	5.07	4.2	0.2	3.93
742073	0.42	1.28	0.38	0.42	0.38	< 0.1	20	11	751	2.00	6.0	2.6	774	96.6	5.08	< 0.1	1.5	12.5	44.7	4.84	4.2	0.2	2.50
742074	0.35	1.24	0.43	0.92	0.27	< 0.1	18	9	605	2.37	10.6	35.2	1800	61.4	4.76	< 0.1	4.3	14.0	45.3	4.68	1.5	< 0.1	7.19
742075	0.27	1.26	0.48	0.69	0.24	< 0.1	14	10	479	2.13	9.8	2.8	2320	44.9	3.46	< 0.1	1.9	14.2	32.4	5.10	2.9	< 0.1	22.7
742076	0.11	1.03	0.50	0.65	0.08	< 0.1	8	10	139	1.66	6.3	3.2	1220	26.0	2.06	< 0.1	1.3	12.5	12.9	6.65	1.0	< 0.1	7.88
742077	0.31	1.34	0.42	0.41	0.46	0.3	14	10	631	1.34	6.2	2.1	57.6	46.3	3.87	< 0.1	1.7	14.0	62.7	7.68	0.7	< 0.1	17.7
742078	0.36	1.67	0.54	0.93	0.60	< 0.1	15	10	792	2.11	8.4	2.2	158	51.5	4.19	< 0.1	12.5	19.9	79.0	8.04	2.5	0.1	117
742079	0.20	1.14	0.43	1.71	0.32	< 0.1	12	5	442	2.39	8.5	1.8	715	83.5	2.71	< 0.1	9.7	15.6	48.7	6.53	2.2	0.2	377
742080	0.24	1.41	0.51	1.99	0.37	< 0.1	14	7	495	2.70	9.4	2.2	791	100	3.10	< 0.1	11.0	18.2	55.5	7.48	4.0	0.2	339
742081	0.33	1.64	0.49	1.03	0.45	< 0.1	18	9	572	2.18	10.3	2.6	2520	119	4.09	< 0.1	3.4	14.8	121	7.15	1.8	0.1	210
742082	0.16	1.22	0.52	0.93	0.26	< 0.1	11	7	309	1.58	8.5	8.8	543	86.3	2.62	< 0.1	4.4	18.3	25.1	6.64	0.9	< 0.1	172
742083	0.14	1.03	0.57	0.75	0.25	< 0.1	10	11	303	2.38	6.1	3.0	1500	75.8	2.41	< 0.1	13.3	20.4	19.8	7.18	4.5	0.1	70.3
742084	0.18	1.33	0.62	0.90	0.36	< 0.1	11	14	397	1.84	8.2	2.4	1620	55.8	2.88	< 0.1	17.6	20.6	53.7	8.65	2.0	0.1	268
742085	0.18	1.17	0.57	1.15	0.25	< 0.1	12	11	363	2.62	8.6	2.0	1810	33.6	2.58	< 0.1	12.1	20.7	42.0	7.53	2.0	0.1	83.4
742086	0.08	1.05	0.56	0.85	0.15	< 0.1	9	10	119	0.98	3.9	2.4	120	28.6	1.77	< 0.1	4.1	19.0	22.2	5.36	2.1	< 0.1	144

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Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01
Method Code	AR-MS																						
742087	0.10	0.39	0.25	0.23	0.34	< 0.1	9	12	267	0.98	0.9	1.5	2.70	19.1	2.39	< 0.1	0.3	11.9	12.0	12.8	6.3	1.7	1.31
742088	0.12	1.20	0.61	1.25	0.23	< 0.1	10	10	213	1.36	6.0	3.6	979	204	2.56	< 0.1	8.8	21.4	45.6	8.56	1.0	< 0.1	187
742089	0.20	1.05	0.52	1.24	0.19	< 0.1	9	15	319	1.74	6.8	2.2	866	135	2.34	< 0.1	53.2	17.4	41.2	8.18	6.3	< 0.1	128
742090	1.47	2.36	1.41	0.98	1.36	16.4	202	53	589	5.66	21.2	39.9	3110	69.8	9.25	< 0.1	91.8	63.5	75.9	11.3	4.6	0.2	144
742091	0.18	1.10	0.57	1.29	0.14	< 0.1	9	12	260	2.77	12.6	3.4	972	104	2.47	< 0.1	4.7	17.7	23.9	3.98	6.0	< 0.1	41.3

Results

Activation Laboratories Ltd.

Report: A17-09418

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
742002	0.534	0.16	1.66	0.43	0.67	0.39	98.4	18.2	34.4	0.39	6.7	14.3	2.7	1.4	0.8	2.6	0.3	2.1	0.5	1.1	0.2	1.6	0.2
742003	5.15	0.19	1.85	0.70	1.10	0.40	77.9	16.1	31.3	0.79	6.3	13.9	2.9	1.9	0.9	2.9	0.4	2.6	0.7	1.5	0.3	2.0	0.3
742004	0.949	0.06	0.82	0.35	0.86	0.58	52.5	9.7	17.7	0.35	2.6	10.5	2.0	0.9	0.5	1.9	0.3	1.9	0.3	1.1	0.2	1.1	0.1
742005	0.667	0.07	1.23	0.43	0.44	0.44	63.5	9.5	16.3	0.44	2.3	9.02	1.8	0.8	0.5	1.8	0.3	1.8	0.3	1.1	0.2	1.1	0.1
742007	0.364	0.06	0.64	0.29	0.43	0.38	16.1	7.9	14.1	0.41	2.1	8.51	1.7	0.6	0.5	1.8	0.3	1.8	0.3	1.0	0.2	1.1	0.1
742008	0.322	0.06	0.83	0.38	0.25	0.33	55.0	8.8	15.2	0.70	2.2	9.11	1.8	0.7	0.5	1.9	0.3	1.9	0.3	1.1	0.2	1.2	0.1
742009	0.513	0.03	1.25	0.49	0.13	0.18	94.1	9.1	15.6	0.73	2.2	8.82	1.7	0.4	0.5	1.8	0.3	1.8	0.3	1.0	0.2	1.0	0.1
742010	0.775	0.06	2.64	3.19	0.17	1.30	21.5	7.9	14.5	1.12	2.4	10.4	2.3	3.4	0.7	2.6	0.4	2.4	0.4	1.3	0.2	1.2	0.2
742011	0.758	0.08	1.36	0.23	0.54	0.74	15.9	11.4	20.1	1.15	3.0	12.0	2.5	1.3	0.8	2.5	0.4	2.5	0.4	1.4	0.2	1.4	0.2
742012	0.460	0.07	1.09	0.40	0.18	0.43	75.8	9.2	15.6	0.67	2.3	8.76	1.8	0.6	0.5	1.8	0.3	1.8	0.3	1.0	0.1	1.0	0.1
742013	0.413	0.06	0.53	0.46	0.22	0.22	68.8	8.1	13.7	2.38	2.0	8.04	1.6	0.7	0.4	1.7	0.2	1.7	0.3	1.0	0.1	1.0	0.1
742014	0.323	0.10	0.65	0.42	0.22	0.33	106	7.6	12.9	0.75	1.9	7.40	1.5	0.6	0.5	1.6	0.2	1.7	0.3	1.0	0.1	1.0	0.1
742015	0.585	0.05	0.59	0.38	0.39	0.42	23.1	7.1	12.4	3.12	1.8	7.05	1.5	1.2	0.4	1.5	0.2	1.7	0.3	1.1	0.2	1.2	0.2
742016	1.64	0.07	0.82	0.35	0.98	0.35	21.2	7.1	13.1	43.2	2.0	8.15	1.7	3.9	0.5	2.0	0.3	2.1	0.4	1.3	0.2	1.3	0.2
742017	1.06	0.08	1.18	0.31	0.94	0.89	11.2	8.8	16.4	5.01	2.6	11.8	2.8	1.5	0.8	3.1	0.5	3.2	0.5	1.7	0.2	1.5	0.2
742018	0.635	0.09	0.75	0.28	0.54	0.80	11.4	9.3	17.0	1.01	2.6	11.6	2.8	1.1	0.8	2.9	0.5	2.9	0.5	1.5	0.2	1.4	0.2
742019	0.637	0.08	0.88	0.28	0.58	0.97	8.2	10.0	18.2	12.9	2.9	12.9	3.4	1.2	1.1	3.6	0.6	3.6	0.6	1.8	0.3	1.7	0.2
742020	0.586	0.07	0.74	0.23	0.50	0.84	7.3	9.1	16.4	12.3	2.6	11.4	2.9	1.2	0.9	3.0	0.5	3.1	0.5	1.6	0.2	1.5	0.2
742021	0.796	0.09	1.04	0.25	0.70	0.79	9.4	10.2	18.9	1.40	3.0	13.5	3.4	1.2	1.0	3.5	0.5	3.4	0.6	1.7	0.2	1.6	0.2
742022	0.409	0.10	0.57	0.23	0.25	0.50	34.9	9.8	16.9	23.2	2.5	10.1	2.2	0.7	0.7	2.3	0.3	2.3	0.4	1.3	0.2	1.4	0.2
742023	0.653	0.09	0.68	0.20	0.59	0.57	8.6	9.1	16.3	25.4	2.5	10.1	2.2	1.2	0.7	2.3	0.3	2.4	0.4	1.3	0.2	1.4	0.2
742024	1.18	0.16	1.46	0.40	0.50	0.52	24.0	12.0	25.1	32.4	5.3	12.9	3.3	1.5	1.1	3.7	0.6	4.2	1.1	2.3	0.5	3.7	0.5
742025	1.76	0.21	1.33	0.29	1.02	0.86	2.8	14.5	29.8	18.1	6.3	14.5	3.5	2.2	1.1	3.6	0.5	3.5	0.9	1.9	0.4	2.5	0.3
742026	1.64	0.21	1.19	0.57	0.72	0.70	3.9	11.0	22.2	61.2	4.6	10.8	2.6	1.2	0.8	2.8	0.4	2.8	0.7	1.6	0.4	2.2	0.3
742027	1.13	0.11	0.77	0.25	0.95	0.83	10.6	9.9	18.1	30.1	2.7	11.5	2.6	1.4	0.8	2.6	0.4	2.7	0.5	1.4	0.2	1.5	0.2
742028	1.11	0.10	0.52	0.17	0.76	0.98	7.2	9.7	17.6	22.1	2.6	11.4	2.7	1.6	0.8	2.7	0.4	2.7	0.4	1.4	0.2	1.3	0.2
742029	0.759	0.10	0.89	0.24	0.64	0.62	9.7	10.9	20.1	7.74	3.0	12.3	2.7	1.3	0.8	2.7	0.4	2.7	0.5	1.5	0.2	1.5	0.2
742030	0.955	0.07	2.38	3.82	0.21	1.42	23.9	8.7	15.9	1.28	2.6	11.4	2.5	3.5	0.8	2.9	0.4	2.6	0.5	1.5	0.2	1.3	0.2
742031	0.645	0.09	0.89	0.33	0.35	0.78	14.1	12.3	21.9	2.35	3.2	13.1	2.8	1.0	0.9	2.9	0.4	2.8	0.5	1.5	0.2	1.5	0.2
742032	1.04	0.10	0.65	0.34	0.34	0.44	19.7	11.7	21.4	5.75	3.1	12.3	2.4	1.7	0.7	2.5	0.4	2.5	0.4	1.4	0.2	1.5	0.2
742033	1.29	0.08	0.50	0.26	0.40	0.42	35.3	11.4	19.8	5.98	2.8	11.2	2.1	1.6	0.6	2.1	0.3	2.2	0.4	1.3	0.2	1.3	0.2
742034	0.704	0.05	0.33	0.14	0.86	0.80	12.8	11.4	20.2	4.95	2.9	11.5	2.3	1.1	0.7	2.3	0.3	2.2	0.4	1.2	0.2	1.1	0.1
742035	1.20	0.08	0.64	0.14	0.63	0.77	7.8	9.5	17.4	8.19	2.6	11.1	2.4	2.0	0.7	2.4	0.4	2.4	0.4	1.2	0.2	1.1	0.1
742036	0.830	0.17	18.8	0.52	0.64	0.93	12.0	13.2	26.9	3.95	5.6	13.0	3.0	2.0	0.9	3.3	0.5	3.4	0.9	1.9	0.4	2.8	0.4
742037	0.858	0.04	0.89	0.26	0.47	0.65	13.2	8.3	15.0	5.01	2.2	9.03	1.9	0.8	0.6	2.0	0.3	2.1	0.4	1.2	0.2	1.2	0.1
742038	0.971	0.07	0.49	0.29	0.63	0.61	9.6	9.0	16.1	19.2	2.4	10.0	2.1	1.1	0.6	2.2	0.3	2.3	0.4	1.3	0.2	1.4	0.2
742039	0.816	0.07	0.60	0.58	0.60	0.71	10.5	10.3	18.5	35.6	2.7	11.5	2.3	1.2	0.7	2.4	0.4	2.5	0.4	1.4	0.2	1.5	0.2
742040	0.841	0.08	0.61	0.55	0.63	0.75	11.6	10.3	18.4	34.0	2.7	11.4	2.3	1.1	0.7	2.5	0.4	2.6	0.4	1.4	0.2	1.5	0.2
742041	0.594	0.05	0.48	0.37	0.35	0.48	44.6	8.5	14.8	5.04	2.2	9.21	2.0	0.8	0.6	2.0	0.3	2.2	0.4	1.3	0.2	1.3	0.2
742042	0.567	0.08	0.44	0.54	0.91	0.64	19.7	7.8	13.9	0.15	2.1	8.49	1.8	0.9	0.5	1.9	0.3	1.9	0.3	1.1	0.2	1.1	0.1
742043	0.566	0.06	0.59	0.29	0.63	0.89	12.5	9.6	17.1	4.30	2.5	10.4	2.2	1.1	0.6	2.4	0.4	2.4	0.4	1.4	0.2	1.4	0.2
742044	0.371	0.03	0.48	0.10	0.39	0.81	23.8	10.2	17.8	3.23	2.6	11.2	2.5	0.7	0.7	2.7	0.4	2.6	0.4	1.4	0.2	1.3	0.2

Results

Activation Laboratories Ltd.

Report: A17-09418

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
742045	0.344	0.04	0.36	0.30	0.44	0.61	17.5	9.2	16.4	1.00	2.5	10.1	2.1	1.0	0.6	2.2	0.3	2.2	0.4	1.2	0.2	1.2	0.1
742046	0.288	0.04	0.19	0.24	0.37	0.44	11.5	7.2	13.1	0.90	1.9	8.05	1.7	0.7	0.5	1.7	0.3	1.8	0.3	1.0	0.1	1.0	0.1
742047	0.884	0.10	1.14	0.55	1.32	1.15	5.3	12.7	26.6	7.44	5.7	13.7	3.2	2.1	0.9	3.5	0.5	3.6	0.9	1.9	0.4	2.5	0.3
742048	0.899	0.11	1.05	0.40	0.92	0.78	12.2	11.0	22.5	11.3	4.7	11.1	2.5	1.8	0.8	2.9	0.4	2.8	0.8	1.6	0.4	2.2	0.3
742049	0.650	0.05	0.81	0.23	0.74	1.07	10.0	8.0	14.8	8.63	2.3	9.70	2.2	1.6	0.6	2.3	0.4	2.5	0.4	1.3	0.2	1.4	0.2
742050	1.41	0.05	1.59	4.96	0.26	1.64	15.8	15.3	24.8	0.59	3.4	12.4	2.1	2.5	0.5	2.0	0.3	1.8	0.3	0.9	0.1	0.9	0.1
742051	0.784	0.05	0.68	0.20	0.61	0.66	8.9	11.3	20.7	3.27	3.2	13.6	3.1	1.6	0.9	3.2	0.5	3.2	0.5	1.6	0.2	1.6	0.2
742052	0.500	0.10	0.93	0.39	0.40	0.40	29.1	8.4	14.6	5.70	2.2	9.04	2.0	0.8	0.7	2.3	0.3	2.4	0.4	1.3	0.2	1.3	0.2
742053	0.922	0.13	0.53	0.34	1.66	0.20	14.2	7.2	12.7	3.88	1.9	7.73	1.6	1.2	0.5	1.8	0.3	1.9	0.3	1.0	0.2	1.0	0.1
742054	0.660	0.08	0.75	0.33	0.52	0.33	17.7	7.2	12.6	6.25	1.9	7.78	1.7	0.5	0.5	1.8	0.3	1.9	0.3	1.1	0.2	1.1	0.1
742055	0.625	0.08	1.06	0.25	0.55	0.46	26.9	8.8	15.6	11.1	2.5	11.2	2.9	1.0	0.9	3.1	0.5	3.2	0.5	1.6	0.2	1.6	0.2
742056	0.523	0.03	0.51	0.09	0.27	0.73	20.8	4.8	9.05	6.02	1.4	5.76	1.3	1.0	0.4	1.2	0.2	1.2	0.2	0.5	< 0.1	0.5	< 0.1
742057	0.476	0.03	0.54	0.12	0.19	0.50	22.5	4.3	8.27	9.44	1.3	5.37	1.1	0.9	0.3	1.1	0.2	1.1	0.2	0.6	< 0.1	0.6	< 0.1
742058	0.659	0.03	0.27	0.06	0.25	0.53	21.1	5.8	11.1	6.00	1.7	6.88	1.3	1.3	0.3	1.2	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1
742059	0.614	0.03	0.34	0.05	0.36	0.53	11.6	4.0	8.04	10.0	1.3	5.21	1.1	1.1	0.3	1.0	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1
742060	0.564	0.02	0.17	0.03	0.30	0.42	8.1	3.7	7.42	9.69	1.2	4.72	1.0	1.1	0.3	0.9	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1
742061	0.810	0.05	0.53	0.10	0.31	0.60	10.9	4.2	8.16	18.2	1.3	5.54	1.4	1.3	0.4	1.3	0.2	1.3	0.2	0.6	< 0.1	0.6	< 0.1
742062	0.558	0.05	0.45	0.11	0.10	0.36	72.3	4.5	8.13	5.46	1.2	5.23	1.1	0.5	0.3	1.1	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742063	0.501	0.04	0.50	0.12	0.22	0.31	44.7	4.8	8.63	2.93	1.3	5.41	1.1	0.6	0.3	1.0	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742064	0.380	0.04	0.43	0.11	0.23	0.52	104	5.1	9.18	2.43	1.4	5.73	1.2	0.5	0.3	1.2	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1
742065	0.556	0.05	0.53	0.13	0.28	0.26	72.2	4.2	7.72	26.0	1.2	4.84	1.0	0.5	0.3	1.0	0.1	0.9	0.2	0.5	< 0.1	0.4	< 0.1
742066	1.75	0.15	1.81	0.29	0.82	0.68	21.0	6.8	14.8	51.0	3.2	7.41	1.7	1.9	0.6	1.7	0.3	1.6	0.4	0.8	0.2	1.0	0.1
742067	0.290	0.04	0.51	0.09	0.11	0.51	171	5.6	10.3	0.44	1.5	6.30	1.2	0.3	0.4	1.2	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1
742068	0.228	0.05	0.50	0.13	0.20	0.76	97.4	5.2	9.65	26.2	1.5	5.89	1.3	0.6	0.4	1.3	0.2	1.3	0.2	0.7	0.1	0.6	< 0.1
742069	0.271	0.04	0.65	0.15	0.08	0.30	140	5.3	9.76	0.66	1.5	6.05	1.2	0.5	0.4	1.1	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1
742070	1.65	0.07	1.94	5.69	0.29	2.05	15.0	19.6	31.8	0.77	4.2	15.4	2.6	2.9	0.7	2.6	0.3	2.2	0.4	1.1	0.2	1.0	0.1
742071	0.846	0.04	0.59	0.14	0.12	0.35	97.6	4.5	8.58	4.71	1.3	5.54	1.1	1.0	0.3	1.2	0.2	1.1	0.2	0.6	< 0.1	0.6	< 0.1
742072	0.853	0.06	0.84	0.40	0.22	0.65	98.0	4.8	8.84	34.4	1.3	5.65	1.2	1.1	0.4	1.3	0.2	1.3	0.2	0.7	0.1	0.7	< 0.1
742073	0.825	0.04	0.53	0.14	0.20	0.53	41.2	4.4	8.18	16.9	1.3	5.27	1.1	1.2	0.3	1.2	0.2	1.2	0.2	0.7	< 0.1	0.6	< 0.1
742074	1.54	0.07	0.63	0.13	0.38	0.53	11.2	4.2	8.40	15.4	1.4	5.76	1.2	1.6	0.3	1.2	0.2	1.2	0.2	0.7	< 0.1	0.6	< 0.1
742075	2.06	0.07	0.58	0.09	0.22	0.52	16.1	4.6	9.49	19.9	1.5	6.45	1.4	2.0	0.4	1.5	0.2	1.4	0.2	0.7	0.1	0.7	< 0.1
742076	0.749	0.05	0.30	0.06	0.22	0.55	12.0	5.4	11.3	20.8	1.8	7.92	1.7	1.5	0.5	1.9	0.3	1.7	0.3	0.9	0.1	0.8	0.1
742077	0.358	0.05	0.87	0.28	0.11	0.65	145	6.5	12.2	2.05	1.9	8.37	1.9	0.4	0.6	2.1	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742078	0.385	0.08	0.94	0.29	0.51	0.89	63.5	8.3	15.1	0.66	2.3	9.48	1.9	0.5	0.6	2.1	0.3	2.0	0.4	1.1	0.2	1.1	0.1
742079	1.01	0.08	0.93	0.18	1.30	0.99	10.2	5.9	11.3	8.52	1.8	7.73	1.8	1.1	0.6	1.9	0.3	1.9	0.3	0.9	0.1	0.9	0.1
742080	1.33	0.10	1.05	0.23	1.51	1.24	14.4	6.8	13.0	9.59	2.1	9.19	2.2	1.3	0.7	2.3	0.3	2.2	0.4	1.1	0.2	1.1	0.1
742081	2.52	0.10	1.23	0.16	0.45	1.22	15.3	6.6	13.3	24.8	2.2	9.48	2.0	1.7	0.6	2.2	0.3	2.1	0.3	1.0	0.2	1.0	0.1
742082	1.09	0.08	0.79	0.17	0.59	1.92	23.9	7.1	11.8	16.6	1.8	7.81	1.8	1.0	0.6	2.0	0.3	1.9	0.3	0.9	0.1	0.9	0.1
742083	1.47	0.11	1.00	0.18	0.56	1.05	25.9	6.7	13.5	20.7	2.2	9.52	2.0	1.3	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742084	1.34	0.09	2.90	0.20	0.33	0.96	32.9	7.6	13.9	24.6	2.3	9.98	2.3	1.4	0.7	2.4	0.4	2.3	0.4	1.2	0.2	1.1	0.1
742085	0.994	0.09	0.77	0.14	0.60	1.13	105	7.3	13.2	1.99	2.2	9.57	2.1	1.6	0.7	2.3	0.3	2.0	0.3	1.0	0.1	0.9	0.1
742086	0.511	0.04	0.95	0.09	0.39	1.46	177	6.4	10.5	2.07	1.6	7.04	1.7	0.5	0.5	1.8	0.3	1.6	0.3	0.8	0.1	0.7	< 0.1

Results**Activation Laboratories Ltd.****Report: A17-09418**

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742087	0.210	< 0.02	0.75	0.04	< 0.02	0.47	36.0	58.5	91.4	0.07	11.0	33.4	4.4	0.4	0.4	3.5	0.4	2.7	0.5	1.4	0.2	1.2	0.2
742088	2.75	0.08	0.81	0.13	0.69	1.09	25.8	7.7	14.3	4.60	2.3	10.3	2.5	1.3	0.8	2.7	0.4	2.5	0.4	1.3	0.2	1.1	0.1
742089	1.63	0.06	0.71	0.22	0.64	1.23	29.0	6.8	12.8	1.50	2.1	8.81	1.9	1.4	0.6	1.9	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742090	1.85	0.04	0.75	3.82	0.85	3.31	24.5	11.1	21.3	< 0.01	3.3	13.8	2.9	5.1	0.8	3.1	0.4	2.8	0.5	1.4	0.2	1.2	0.2
742091	1.37	0.08	1.16	0.07	0.42	0.76	9.0	4.1	8.22	7.63	1.3	5.63	1.2	2.4	0.3	1.2	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1

Results

Activation Laboratories Ltd.

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742002	< 0.1	< 0.05	1.6	0.050	55.8	0.24	31.5	4.7	2.5	< 10
742003	0.1	< 0.05	11.3	0.048	12.8	0.21	61.8	4.9	2.6	< 10
742004	0.1	< 0.05	0.8	0.003	31.8	0.10	172	3.0	1.5	20
742005	0.3	< 0.05	0.8	0.003	26.8	0.10	143	3.6	1.6	20
742007	0.3	< 0.05	1.1	0.030	14.7	0.10	33.5	2.0	1.1	< 10
742008	0.2	< 0.05	1.0	0.017	5.9	0.14	41.0	2.8	1.4	20
742009	0.2	< 0.05	0.4	0.006	3.2	0.06	34.8	3.1	1.5	20
742010	< 0.1	< 0.05	< 0.1	0.016	47.7	0.19	12.6	1.0	0.6	130
742011	0.1	< 0.05	0.5	0.077	37.9	0.26	48.6	2.7	1.7	< 10
742012	0.1	< 0.05	0.6	0.030	8.2	0.12	33.5	2.8	1.6	< 10
742013	0.3	< 0.05	1.0	0.007	3.2	0.07	204	2.9	1.5	20
742014	0.3	< 0.05	1.0	0.003	3.0	0.08	98.0	2.8	1.5	10
742015	0.3	< 0.05	0.9	0.010	21.5	0.09	176	3.5	1.6	< 10
742016	0.3	< 0.05	0.9	0.101	11.7	0.09	1590	3.1	1.5	20
742017	< 0.1	< 0.05	1.6	0.103	40.8	0.17	42.1	3.6	1.9	< 10
742018	< 0.1	< 0.05	1.4	0.088	31.5	0.15	58.7	4.5	1.9	20
742019	0.2	< 0.05	1.0	0.200	39.9	0.21	65.7	5.1	2.3	< 10
742020	0.1	< 0.05	1.0	0.187	41.7	0.18	59.4	4.7	2.1	< 10
742021	< 0.1	< 0.05	1.2	0.107	54.5	0.19	69.7	4.9	2.3	< 10
742022	< 0.1	< 0.05	0.8	0.125	59.6	0.18	108	3.5	2.5	< 10
742023	< 0.1	< 0.05	0.7	0.227	13.0	0.21	125	3.2	2.1	< 10
742024	0.6	< 0.05	1.0	0.195	26.6	0.17	161	4.3	2.1	< 10
742025	< 0.1	< 0.05	1.6	0.557	55.1	0.41	21.3	5.5	3.3	< 10
742026	< 0.1	< 0.05	1.4	0.349	115	0.27	28.9	5.5	2.8	10
742027	< 0.1	< 0.05	1.0	0.196	81.3	0.19	56.7	4.0	2.1	< 10
742028	< 0.1	< 0.05	0.6	0.209	70.4	0.20	75.6	3.6	1.8	< 10
742029	0.2	< 0.05	1.6	0.149	29.8	0.20	34.9	3.8	1.8	< 10
742030	< 0.1	< 0.05	< 0.1	0.021	96.5	0.23	16.6	1.1	0.7	160
742031	< 0.1	< 0.05	1.0	0.075	56.0	0.15	33.8	3.9	1.6	< 10
742032	0.3	< 0.05	0.8	0.104	87.0	0.18	48.0	3.9	1.5	10
742033	0.1	< 0.05	0.9	0.058	8.8	0.15	105	4.0	1.4	< 10
742034	< 0.1	< 0.05	0.7	0.176	37.9	0.20	10.4	3.1	1.7	10
742035	< 0.1	< 0.05	0.4	0.251	24.8	0.19	26.8	3.2	1.6	< 10
742036	< 0.1	< 0.05	2.3	0.247	9.5	0.35	26.7	5.5	2.6	< 10
742037	0.3	< 0.05	0.9	0.097	29.6	0.21	40.7	3.5	1.4	< 10
742038	< 0.1	< 0.05	1.1	0.121	36.9	0.22	121	3.4	1.5	< 10
742039	0.2	< 0.05	1.3	0.186	67.4	0.21	110	3.6	2.0	10
742040	0.1	< 0.05	1.0	0.198	146	0.24	120	3.7	2.0	< 10
742041	< 0.1	< 0.05	0.9	0.061	40.4	0.17	46.0	3.9	1.2	< 10
742042	< 0.1	< 0.05	1.2	0.123	102	0.23	13.0	2.8	1.3	< 10
742043	< 0.1	< 0.05	1.5	0.186	9.6	0.21	26.3	3.6	1.6	< 10
742044	< 0.1	< 0.05	1.9	0.232	17.5	0.16	55.8	3.7	1.3	< 10

Activation Laboratories Ltd.

Results

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742045	< 0.1	< 0.05	0.9	0.126	13.1	0.16	11.9	3.5	1.7	< 10
742046	< 0.1	< 0.05	1.0	0.094	7.1	0.14	14.7	2.8	1.5	< 10
742047	< 0.1	< 0.05	4.5	0.347	33.2	0.40	37.5	5.7	2.7	< 10
742048	< 0.1	< 0.05	2.9	0.034	11.9	0.40	12.2	5.1	2.4	< 10
742049	< 0.1	< 0.05	1.1	0.100	33.9	0.21	33.3	3.2	1.9	< 10
742050	0.1	< 0.05	2.6	0.033	151	0.29	23.0	7.2	3.5	60
742051	< 0.1	< 0.05	1.4	0.084	26.0	0.22	16.8	3.8	2.4	< 10
742052	0.1	< 0.05	1.0	0.059	16.4	0.11	69.2	3.8	1.8	< 10
742053	0.3	< 0.05	0.9	0.046	5.4	0.07	50.5	3.3	1.6	< 10
742054	0.2	< 0.05	1.4	0.055	13.3	0.08	137	3.1	1.5	< 10
742055	< 0.1	< 0.05	1.4	0.068	< 0.5	0.11	174	5.7	2.4	< 10
742056	0.1	< 0.05	0.3	0.152	< 0.5	0.13	11.5	1.3	0.6	< 10
742057	0.2	< 0.05	0.3	0.086	< 0.5	0.13	20.9	1.3	0.7	< 10
742058	0.1	< 0.05	0.1	0.093	7.5	0.15	25.2	1.4	0.8	< 10
742059	0.1	< 0.05	< 0.1	0.113	4.6	0.13	11.8	1.1	0.6	< 10
742060	< 0.1	< 0.05	< 0.1	0.107	5.8	0.11	9.31	0.9	0.5	< 10
742061	< 0.1	< 0.05	0.3	0.148	< 0.5	0.14	39.8	1.3	0.7	< 10
742062	0.1	< 0.05	0.7	0.067	< 0.5	0.11	14.6	1.3	0.6	< 10
742063	0.2	< 0.05	1.1	0.057	2.0	0.12	9.59	1.3	0.6	< 10
742064	0.1	< 0.05	0.9	0.038	< 0.5	0.13	10.2	1.3	0.6	< 10
742065	0.1	< 0.05	0.8	0.024	< 0.5	0.10	116	1.1	0.6	< 10
742066	< 0.1	< 0.05	2.2	0.191	3.9	0.23	235	1.9	1.1	< 10
742067	< 0.1	< 0.05	2.1	0.007	< 0.5	0.15	10.4	1.1	0.5	< 10
742068	< 0.1	< 0.05	0.7	0.060	< 0.5	0.13	84.8	1.5	0.7	< 10
742069	0.2	< 0.05	1.0	0.005	< 0.5	0.11	14.2	1.4	0.6	< 10
742070	0.1	< 0.05	2.8	0.043	49.1	0.37	24.3	8.5	4.1	90
742071	0.2	< 0.05	0.6	0.013	2.3	0.10	10.2	1.4	0.6	< 10
742072	0.1	< 0.05	0.8	0.009	< 0.5	0.10	129	1.6	0.6	< 10
742073	0.1	< 0.05	0.6	0.042	< 0.5	0.12	113	1.6	0.7	< 10
742074	< 0.1	< 0.05	0.5	0.040	< 0.5	0.14	16.0	1.4	0.6	< 10
742075	< 0.1	< 0.05	0.5	0.050	3.1	0.15	13.6	1.6	0.7	< 10
742076	< 0.1	< 0.05	0.3	0.048	< 0.5	0.14	8.07	1.6	0.6	< 10
742077	< 0.1	< 0.05	0.6	0.008	3.5	0.12	19.5	2.0	0.7	< 10
742078	< 0.1	< 0.05	1.4	0.046	< 0.5	0.16	19.9	1.9	0.8	< 10
742079	< 0.1	< 0.05	1.8	0.272	4.3	0.14	49.4	1.7	0.8	< 10
742080	< 0.1	< 0.05	2.4	0.309	5.0	0.17	59.2	2.0	0.9	< 10
742081	< 0.1	< 0.05	1.1	0.403	1.0	0.16	130	1.8	1.0	< 10
742082	< 0.1	< 0.05	1.5	0.361	< 0.5	0.18	68.3	1.8	0.9	< 10
742083	0.1	< 0.05	5.7	0.098	< 0.5	0.18	70.3	1.8	0.9	< 10
742084	< 0.1	< 0.05	1.5	0.313	1.1	0.19	27.9	2.7	1.2	< 10
742085	< 0.1	< 0.05	3.9	0.079	< 0.5	0.17	6.63	2.4	0.8	< 10
742086	< 0.1	< 0.05	1.7	0.102	1.0	0.18	13.7	1.7	0.6	< 10

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742087	0.3	< 0.05	< 0.1	< 0.001	< 0.5	0.08	8.18	27.2	3.5	< 10
742088	< 0.1	< 0.05	0.7	0.153	< 0.5	0.20	184	3.0	0.8	< 10
742089	0.2	< 0.05	0.4	0.084	10.1	0.19	77.6	1.6	0.6	< 10
742090	0.1	< 0.05	1.4	0.306	36.8	0.83	17.4	2.0	0.6	130
742091	0.2	< 0.05	< 0.1	0.179	1.4	0.21	24.0	1.1	0.6	< 10

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
MP-1b Meas				50.9		21100				800	2.5	650			3.25	8.3					< 0.1	0.033	
MP-1b Cert				47.0		23000.00				954.00	2.47	527.00	00		3.07	8.19					0.024	0.029	
PK2 Meas	4990	6150	4950																				
PK2 Cert	4790	5918.00	4749.00																				
PK2 Meas	4980	6170	4800																				
PK2 Cert	4790	5918.00	4749.00																				
PK2 Meas	4880	6080	4780																				
PK2 Cert	4790	5918.00	4749.00																				
CDN-PGMS-25 Meas	510	1890	420																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	537	1950	416																				
CDN-PGMS-25 Cert	483	1830	400																				
SDC-1 1F2 Assay (%) Meas					< 30	630	< 10							20	60	0.003				40	0.084		
SDC-1 1F2 Assay (%) Cert					0.220	630	3.00							18	64.0	0.0030				34.0	0.088		
SBC-1 1F2-assay Kamloops (%) Meas					< 30	780	< 10	< 20			< 3	20	100	0.003			20			160	0.110	< 0.001	
SBC-1 1F2-assay Kamloops (%) Cert					25.7	788	3.20	0.700			0.400	22.7	109	0.0031			27.0			163	0.116	0.00024	
DNC-1a 1F2-assay Kamloops (%) Meas					100						60	230	0.010							< 10	0.120		

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
DNC-1a 1F2-assay Kamloops (%) Cert							118					57.0	270	0.01					5.20		0.116		
GXR-6 1F2-assay Kamloops (%) Meas				< 3.0	15.8	310	1560	< 10	< 20	0.2	< 3	10	70	0.008	5.5	40	< 10	1.7	40	0.7	0.100	< 0.001	0.1
GXR-6 1F2-assay Kamloops (%) Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104
GXR-1 1F2-assay Kamloops (%) Meas				31.0	6.4	440	1300	< 10	1380	0.9	< 3	< 10	30	0.112	23.7	20	< 10	< 0.1	10	0.4	0.090	0.002	< 0.1
GXR-1 1F2-assay Kamloops (%) Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520
GXR-4 1F2-assay Kamloops (%) Meas				< 3.0	6.6	100	1530	< 10	< 20	1.0	< 3	10	60	0.652	3.0	20	< 10	4.2	< 10	1.7	0.015	0.035	0.5
GXR-4 1F2-assay Kamloops (%) Cert				4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564
OREAS 14P 1F2-assay Kamloops (%) Meas												730		1.02	35.4								
OREAS 14P 1F2-assay Kamloops (%) Cert												750		0.997	37.2								
GBW 07238 1F2-assay Kamloops (%) Meas						< 30								0.010		20						1.08	1.57
GBW 07238 1F2-assay Kamloops (%) Cert						1.60								0.00936		25.0						1.08	1.51
GBW 07239 1F2-assay Kamloops (%) Meas						60		< 20				20		0.006		10						1.15	0.117
GBW 07239 1F2-assay Kamloops (%) Cert						1.0			1.0			13.5		0.00486		23.1						1.15	0.110
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922																							

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP																		
(AQUA REGIA) Cert																								
OREAS 922 (AQUA REGIA) Meas																								
OREAS 922 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
SdAR-M2 (U.S.G.S.) Meas							990	< 10	< 20		6	10	50	0.025		30	< 10		20			0.001		
SdAR-M2 (U.S.G.S.) Cert							990	6.6	1.05		5.1	12.4	49.6	0.0236		17.6	1.44		20			0.001		
SdAR-M2 (U.S.G.S.) Meas																								
SdAR-M2 (U.S.G.S.) Cert																								
CCU-1e Meas				213.7	0.1	830				0.1	71	320			30.9		< 10			0.7	0.014			
CCU-1e Cert				205	0.139	1010				0.129	74.2	301			30.7		10.4			0.706	0.00960			
742011 Orig	52	< 5	< 5																					
742011 Dup	53	< 5	< 5																					
742015 Orig				< 3.0	6.9	30	1880	< 10	< 20	1.6	3	10	20	0.012	3.4	10	< 10	4.4	< 10	0.8	0.132	0.002	1.4	
742015 Dup				< 3.0	7.8	< 30	1910	< 10	< 20	1.6	< 3	10	20	0.009	3.5	10	< 10	4.4	< 10	0.8	0.134	0.002	1.4	
742019 Orig	39	< 5	< 5																					
742019 Dup	42	< 5	< 5																					
742029 Orig				< 3.0	9.8	< 30	1700	< 10	< 20	1.1	8	20	10	0.023	5.4	20	< 10	4.0	< 10	0.8	0.109	0.002	1.7	
742029 Dup				< 3.0	9.1	< 30	1620	< 10	< 20	1.0	7	10	10	0.021	5.2	20	< 10	3.8	< 10	0.7	0.105	0.002	1.6	
742032 Orig	54	< 5	< 5																					
742032 Dup	55	< 5	< 5																					
742042 Orig																								
742046 Orig	35	< 5	< 5																					
742046 Dup	32	< 5	< 5																					
742052 Orig	43	< 5	< 5	< 3.0	9.1	< 30	1590	< 10	< 20	2.4	5	10	30	0.015	4.5	20	< 10	3.0	< 10	1.1	0.221	0.004	1.5	
742052 Split PREP DUP	16	< 5	< 5	< 3.0	8.4	< 30	1510	< 10	< 20	2.3	6	< 10	30	0.015	4.1	20	< 10	2.9	< 10	1.0	0.210	0.003	1.4	

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																			
742053 Orig	5	< 5	< 5	< 3.0	8.7	< 30	1960	< 10	< 20	2.5	< 3	< 10	20	0.092	4.5	20	< 10	2.8	< 10	1.0	0.220	0.005	1.9	
742053 Dup	8	< 5	< 5	< 3.0	8.1	< 30	1850	< 10	< 20	2.4	3	< 10	20	0.088	4.2	20	< 10	2.6	< 10	0.9	0.203	0.005	1.8	
742055 Orig																								
742055 Dup																								
742066 Orig	4	< 5	< 5																					
742066 Dup	4	< 5	< 5																					
742067 Orig				< 3.0	8.3	< 30	1060	< 10	< 20	0.2	< 3	< 10	20	0.023	1.9	30	< 10	3.6	< 10	0.5	0.034	< 0.001	0.1	
742067 Dup				< 3.0	8.3	< 30	1070	< 10	< 20	0.2	< 3	< 10	20	0.020	1.9	20	< 10	3.7	< 10	0.4	0.032	< 0.001	0.1	
742078 Orig																								
742080 Orig	11	< 5	< 5																					
742080 Dup	19	< 5	< 5																					
742082 Orig																								
742082 Dup																								
742088 Orig	32	< 5	< 5																					
742088 Dup	11	< 5	< 5																					
Method Blank																								
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank																								

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas																	0.007	< 1	0.038	6.4	0.7	10	0.052	
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	
GXR-1 Meas																								
GXR-1 Cert																								
GXR-4 Meas																	0.142	2	0.133	9.7	1.8	4	0.134	
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564	
GXR-4 Meas																								
GXR-4 Cert																								
GXR-6 Meas																	< 1	0.038	30.1	1.1	6	0.085		
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104		
GXR-6 Meas																								
GXR-6 Cert																								
MP-1b Meas		18700	13.6									780		17.2										
MP-1b Cert		20900	13.79									1100.000		16.7										
PK2 Meas																								
PK2 Cert																								
PK2 Meas																								
PK2 Cert																								
PK2 Meas																								
PK2 Cert																								
CDN-PGMS-25 Meas																								
CDN-PGMS-25 Cert																								
CDN-PGMS-25 Meas																								
CDN-PGMS-25 Cert																								
SDC-1 1F2 Assay (%) Meas	0.003		< 30		< 50	< 40	170					30	< 50		0.009	< 50								
SDC-1 1F2 Assay (%) Cert	0.0038		25.0		0.540	17.0	180					102	0.80		0.0103	290								
SBC-1 1F2-assay Kamloops (%) Meas	0.008		50		< 50	< 40	170			< 50	< 100	220	< 50	40	0.018	130								
SBC-1 1F2-assay Kamloops (%) Cert	0.00828		35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134								
DNC-1a 1F2-assay Kamloops (%) Meas	0.026				< 50	< 40	130					150		20	0.006	< 50								
DNC-1a 1F2-assay Kamloops (%)	0.0247											148.0000		18.0	0.007	38.0								

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
Cert																							
GXR-6 1F2-assay Kamloops (%) Meas	0.002	0.04	110	< 0.1	< 50	< 40	50	< 20		< 50	< 100	120	< 50	10	0.011	90							
GXR-6 1F2-assay Kamloops (%) Cert	0.0027	0.0350	101	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110							
GXR-1 1F2-assay Kamloops (%) Meas	0.004	0.06	790	0.2	< 50	< 40	280	< 20		< 50	< 100	80	200	30	0.074	< 50							
GXR-1 1F2-assay Kamloops (%) Cert	0.0041	0.0650	730	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0							
GXR-4 1F2-assay Kamloops (%) Meas	0.004	0.13	40	1.8	< 50	< 40	220	20		< 50	< 100	80	< 50	20	0.006	< 50							
GXR-4 1F2-assay Kamloops (%) Cert	0.0042	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186							
OREAS 14P 1F2-assay Kamloops (%) Meas	2.02																						
OREAS 14P 1F2-assay Kamloops (%) Cert	2.10																						
GBW 07238 1F2-assay Kamloops (%) Meas	0.004		< 30										2770	10	0.006								
GBW 07238 1F2-assay Kamloops (%) Cert	0.00178		18.7										3600	11.4	0.00655								
GBW 07239 1F2-assay Kamloops (%) Meas	0.003		< 30										1190	40	0.013								
GBW 07239 1F2-assay Kamloops (%) Cert	0.00209		26.1										1000.00	34.2	0.012								
OREAS 922 (AQUA REGIA) Meas																	< 1	0.067	22.3	0.8		0.025	
OREAS 922 (AQUA REGIA) Cert																	0.386	0.063	22.8	0.65		0.021	
OREAS 922																							

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS						
(AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																	< 1	0.054	23.1	0.7			
OREAS 923 (AQUA REGIA) Cert																	0.684	0.061	23.4	0.61			
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas	0.004		860			< 40	140				< 100	20	< 50	30	0.079	130					11.8	4.6	
SdAR-M2 (U.S.G.S.) Cert	0.005		808			4.1	144				2.53	25.2	2.8	32.7	0.076	259					17.9	6.6	
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
CCU-1e Meas			7590	34.2	60			70		< 50					2.99								
CCU-1e Cert			7030	35.3	104			61.8		2.69					3.02								
742011 Orig																							
742011 Dup																							
742015 Orig	< 0.001	0.04	190	1.3	< 50	< 40	230	< 20	0.3	< 50	< 100	70	< 50	20	0.018	60	0.164	1	0.050	3.7	0.2	2	0.051
742015 Dup	< 0.001	0.05	180	1.3	< 50	< 40	230	< 20	0.3	< 50	< 100	70	< 50	20	0.019	60	0.164	1	0.050	3.6	0.2	2	0.049
742019 Orig																							
742019 Dup																							
742029 Orig	< 0.001	0.18	60	2.9	< 50	< 40	240	90	0.3	< 50	< 100	50	< 50	20	0.012	< 50	0.123	3	0.175	3.6	0.4	1	0.045
742029 Dup	< 0.001	0.17	40	2.7	< 50	< 40	230	< 20	0.3	< 50	< 100	50	< 50	20	0.012	< 50	0.128	3	0.192	3.7	0.4	4	0.050
742032 Orig																							
742032 Dup																							
742042 Orig																	0.100	2	0.083	3.3	0.2	< 1	0.047
742046 Orig																							
742046 Dup																							
742052 Orig	< 0.001	0.14	90	1.0	< 50	< 40	330	< 20	0.3	< 50	< 100	100	< 50	20	0.013	80	0.163	1	0.142	4.7	0.5	< 1	0.036
742052 Split PREP DUP	< 0.001	0.12	80	0.9	< 50	< 40	310	< 20	0.3	< 50	< 100	90	< 50	20	0.012	70	0.168	1	0.150	5.1	0.5	1	0.039
742053 Orig	< 0.001	0.12	60	1.4	< 50	< 40	360	< 20	0.3	< 50	< 100	100	< 50	20	0.010	80							
742053 Dup	< 0.001	0.11	60	1.3	< 50	< 40	330	< 20	0.3	< 50	< 100	90	< 50	20	0.009	70							
742055 Orig																	0.154	1	0.242	4.9	0.5	1	0.044

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742055 Dup																	0.148	1	0.225	4.5	0.6	< 1	0.043
742066 Orig																							
742066 Dup																							
742067 Orig	0.001	0.04	50	< 0.1	< 50	< 40	40	40	0.2	< 50	< 100	40	< 50	< 10	0.005	< 50							
742067 Dup	< 0.001	0.05	40	< 0.1	< 50	< 40	40	30	0.2	< 50	< 100	50	< 50	< 10	0.002	< 50							
742078 Orig																	0.083	< 1	0.077	3.2	0.4	1	0.033
742080 Orig																							
742080 Dup																							
742082 Orig																							
742082 Dup																							
742088 Orig																							
742088 Dup																							
Method Blank																	< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.009
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo		
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm														
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01		
Method Code	AR-MS																								
GXR-1 Meas	0.14	0.50	0.03	1400	0.80	1.0	67	6	782	21.5	7.1	33.2	986	717	4.88		355	2.3	181	23.8	12.6	< 0.1	16.0		
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0		
GXR-1 Meas													1010											15.8	
GXR-1 Cert													1110												18.0
GXR-4 Meas	1.60	2.90	1.82	19.3	0.97	5.4	85	57	142	3.17	15.5	39.5	6380	74.4	10.9		95.7	90.7	65.7	10.8	8.7	0.3	321		
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310		
GXR-4 Meas													6680												304
GXR-4 Cert													6520												310
GXR-6 Meas	0.41	7.49	1.35	0.17	0.21	25.3	172	81	1090	5.69	13.8	24.2	72.6	123	15.9		181	60.2	34.0	6.02	5.5	< 0.1	3.07		
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50		2.40	
GXR-6 Meas													64.6												1.36
GXR-6 Cert													66.0												2.40
MP-1b Meas																									
MP-1b Cert																									
PK2 Meas																									
PK2 Cert																									
PK2 Meas																									
PK2 Cert																									
CDN-PGMS-25 Meas																									
CDN-PGMS-25 Cert																									
CDN-PGMS-25 Meas																									
CDN-PGMS-25 Cert																									
SDC-1 1F2 Assay (%) Meas																									
SDC-1 1F2 Assay (%) Cert																									
SBC-1 1F2-assay Kamloops (%) Meas																									
SBC-1 1F2-assay Kamloops (%) Cert																									
DNC-1a 1F2-assay Kamloops (%) Meas																									
DNC-1a 1F2-assay Kamloops (%) Cert																									

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm													
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01	
Method Code	AR-MS																							
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-1 1F2-assay Kamloops (%) Meas																								
GXR-1 1F2-assay Kamloops (%) Cert																								
GXR-4 1F2-assay Kamloops (%) Meas																								
GXR-4 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas																								
GBW 07238 1F2-assay Kamloops (%) Cert																								
GBW 07239 1F2-assay Kamloops (%) Meas																								
GBW 07239 1F2-assay Kamloops (%) Cert																								
OREAS 922 (AQUA REGIA) Meas	1.36	2.72	0.47	12.4	0.39	3.8	33	45	784	5.39	20.4	36.8	1950	273	7.98	0.1	6.2	28.3	14.8	19.7	14.7	0.5	0.63	
OREAS 922 (AQUA REGIA) Cert	1.33	2.72	0.376	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	
OREAS 922 (AQUA REGIA)														2270										0.81

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
Meas																								
OREAS 922 (AQUA REGIA) Cert														2176										0.69
OREAS 923 (AQUA REGIA) Meas	1.41	2.74	0.41	26.6	0.41	3.7	36	44	906	6.05	22.7	34.1	4210	353	8.05		7.6	25.3	13.7	17.9	23.7		0.83	
OREAS 923 (AQUA REGIA) Cert	1.43	2.80	0.322	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	
OREAS 923 (AQUA REGIA) Meas														4460										0.79
OREAS 923 (AQUA REGIA) Cert														4248										0.84
SdAR-M2 (U.S.G.S.) Meas				0.95		1.4	15	9			11.1	41.4	239	690	2.79			15.6	16.5	13.5	5.0	1.7	13.1	
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3	
SdAR-M2 (U.S.G.S.) Meas														209										10.6
SdAR-M2 (U.S.G.S.) Cert														236.00 00										13.3
CCU-1e Meas																								
CCU-1e Cert																								
742011 Orig																								
742011 Dup																								
742015 Orig	0.73	1.77	0.35	0.35	0.74	2.3	40	25	1120	2.93	8.5	2.1	83.1	206	5.20	< 0.1	24.3	12.2	52.1	7.70	10.8	0.3	16.3	
742015 Dup	0.74	1.81	0.35	0.36	0.78	2.4	42	10	1120	2.91	8.3	2.4	83.0	205	5.21	< 0.1	23.8	12.2	52.9	7.64	8.2	0.3	14.8	
742019 Orig																								
742019 Dup																								
742029 Orig	0.55	2.18	0.63	1.49	0.53	4.2	23	7	936	4.71	15.9	2.8	224	133	5.66	< 0.1	6.5	22.8	64.7	9.08	6.1	0.3	19.9	
742029 Dup	0.60	2.33	0.68	1.63	0.55	4.0	25	7	975	4.89	16.6	3.2	231	137	5.69	< 0.1	6.7	23.0	65.3	9.11	6.8	0.4	19.8	
742032 Orig																								
742032 Dup																								
742042 Orig	0.43	1.81	0.60	1.25	0.45	2.7	37	4	883	3.24	7.9	2.0	30.0	65.2	4.78	< 0.1	99.7	21.4	31.2	7.60	4.9	0.1	162	
742046 Orig																								
742046 Dup																								
742052 Orig	0.91	2.23	0.33	0.79	1.00	2.3	45	12	1570	3.27	10.9	2.3	144	128	6.42	< 0.1	20.7	11.5	86.5	8.63	6.8	0.5	29.9	
742052 Split PREP DUP	0.99	2.41	0.34	0.82	1.00	2.2	48	13	1610	3.37	11.2	2.2	150	133	6.64	< 0.1	20.8	11.3	84.8	8.56	7.2	0.5	28.5	
742053 Orig																								
742053 Dup																								
742055 Orig	0.99	2.42	0.41	1.27	0.73	2.5	49	9	1650	3.50	13.7	2.9	189	219	6.38	< 0.1	3.9	13.0	68.9	10.1	3.0	0.6	20.0	
742055 Dup	0.93	2.23	0.39	1.25	0.69	2.4	47	9	1560	3.37	13.0	21.2	187	215	6.19	< 0.1	3.7	12.4	65.8	9.70	2.9	0.5	23.6	

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742066 Orig																								
742066 Dup																								
742067 Orig																								
742067 Dup																								
742078 Orig	0.36	1.67	0.54	0.93	0.60	< 0.1	15	10	792	2.11	8.4	2.2	158	51.5	4.19	< 0.1	12.5	19.9	79.0	8.04	2.5	0.1	117	
742080 Orig																								
742080 Dup																								
742082 Orig																								173
742082 Dup																								172
742088 Orig																								
742088 Dup																								
Method Blank	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	0.2	0.15	0.3	< 0.02	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	0.06	
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
															0.17									0.03

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	29.8	0.66	25.1	79.0	13.2	2.53	199	5.3	9.15	2.51		6.24	1.9	13.1	0.4	3.2	0.6	4.0			0.3	1.9	0.2
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-1 Meas	30.0																						
GXR-1 Cert	31.0																						
GXR-4 Meas	3.15	0.20	5.97	3.28	0.98	2.41	16.7	46.6	80.5	< 0.01		37.4	5.2	5.3	1.2	4.2	0.5	2.7			0.2	0.9	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-4 Meas	3.19																						
GXR-4 Cert	4.00																						
GXR-6 Meas	0.399	0.06	0.90	1.44	0.04	3.52	1150	11.1	27.5	0.12		11.4	2.0	0.4	0.5	1.9	0.2	1.5				0.7	< 0.1
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330
GXR-6 Meas	0.368																						
GXR-6 Cert	1.30																						
MP-1b Meas																							
MP-1b Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							
GXR-4 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas	0.511	0.24	4.81	0.62		1.99	90.7	39.5	68.4	0.31	9.7	34.8	5.7	3.5		5.2	0.7						
OREAS 922 (AQUA REGIA) Cert	0.851	0.24	3.83	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62						
OREAS 922 (AQUA REGIA)	0.658																						

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
Meas																							
OREAS 922 (AQUA REGIA) Cert	0.851																						
OREAS 923 (AQUA REGIA) Meas	2.14	0.45	7.59	0.61		1.78	66.8	35.8	62.0	0.42	8.9	31.4	5.3	5.9		4.9	0.7						
OREAS 923 (AQUA REGIA) Cert	1.62	0.45	5.99	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						
OREAS 923 (AQUA REGIA) Meas	1.59																						
OREAS 923 (AQUA REGIA) Cert	1.62																						
SdAR-M2 (U.S.G.S.) Meas						0.70	105	36.2	68.8	4.60	8.9	31.5	4.8		0.5	4.0	0.5	3.2	0.5	1.7	0.2	1.5	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
CCU-1e Meas																							
CCU-1e Cert																							
742011 Orig																							
742011 Dup																							
742015 Orig	0.401	0.05	0.54	0.38	0.40	0.42	22.2	7.1	12.4	3.18	1.8	7.01	1.5	1.3	0.4	1.5	0.2	1.6	0.3	1.0	0.2	1.2	0.1
742015 Dup	0.768	0.05	0.63	0.39	0.39	0.42	23.9	7.1	12.5	3.06	1.8	7.09	1.5	1.2	0.4	1.5	0.2	1.7	0.3	1.1	0.2	1.2	0.2
742019 Orig																							
742019 Dup																							
742029 Orig	0.755	0.10	0.87	0.24	0.62	0.61	9.0	10.9	20.0	7.70	3.0	12.3	2.7	1.3	0.8	2.7	0.4	2.6	0.5	1.4	0.2	1.5	0.2
742029 Dup	0.763	0.11	0.91	0.24	0.65	0.63	10.5	10.9	20.2	7.79	3.1	12.3	2.7	1.3	0.8	2.7	0.4	2.8	0.5	1.5	0.2	1.5	0.2
742032 Orig																							
742032 Dup																							
742042 Orig	0.567	0.08	0.44	0.54	0.91	0.64	19.7	7.8	13.9	0.15	2.1	8.49	1.8	0.9	0.5	1.9	0.3	1.9	0.3	1.1	0.2	1.1	0.1
742046 Orig																							
742046 Dup																							
742052 Orig	0.500	0.10	0.93	0.39	0.40	0.40	29.1	8.4	14.6	5.70	2.2	9.04	2.0	0.8	0.7	2.3	0.3	2.4	0.4	1.3	0.2	1.3	0.2
742052 Split PREP DUP	0.413	0.10	0.76	0.40	0.36	0.41	26.6	8.2	14.2	5.77	2.1	9.04	2.1	0.8	0.7	2.3	0.4	2.4	0.4	1.3	0.2	1.3	0.2
742053 Orig																							
742053 Dup																							
742055 Orig	0.661	0.09	0.86	0.24	0.56	0.46	27.3	9.0	15.9	11.4	2.5	11.4	2.9	1.0	0.9	3.2	0.5	3.3	0.5	1.6	0.2	1.6	0.2
742055 Dup	0.589	0.08	1.27	0.26	0.53	0.46	26.5	8.7	15.4	10.8	2.4	11.0	2.8	0.9	0.9	3.0	0.5	3.1	0.5	1.6	0.2	1.5	0.2

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742066 Orig																							
742066 Dup																							
742067 Orig																							
742067 Dup																							
742078 Orig	0.385	0.08	0.94	0.29	0.51	0.89	63.5	8.3	15.1	0.66	2.3	9.48	1.9	0.5	0.6	2.1	0.3	2.0	0.4	1.1	0.2	1.1	0.1
742080 Orig																							
742080 Dup																							
742082 Orig																							
742082 Dup																							
742088 Orig																							
742088 Dup																							
Method Blank	0.022	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	< 0.5	< 0.5	0.03	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.056																						

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.2	< 0.05	143		2710	0.31	664	2.0	27.7	3400
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas										
GXR-1 Cert										
GXR-4 Meas	0.3	< 0.05	12.6		238	2.67	49.6	15.3	4.6	90
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-4 Meas										
GXR-4 Cert										
GXR-6 Meas	< 0.1	< 0.05	< 0.1		24.4	1.73	106	3.9	0.8	60
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas										
GXR-6 Cert										
MP-1b Meas										
MP-1b Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
CDN-PGMS-25 Meas										
CDN-PGMS-25 Cert										
CDN-PGMS-25 Meas										
CDN-PGMS-25 Cert										
SDC-1 1F2 Assay (%) Meas										
SDC-1 1F2 Assay (%) Cert										
SBC-1 1F2-assay Kamloops (%) Meas										
SBC-1 1F2-assay Kamloops (%) Cert										
DNC-1a 1F2-assay Kamloops (%) Meas										
DNC-1a 1F2-assay Kamloops (%) Cert										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS									
GXR-6 1F2-assay Kamloops (%) Meas										
GXR-6 1F2-assay Kamloops (%) Cert										
GXR-1 1F2-assay Kamloops (%) Meas										
GXR-1 1F2-assay Kamloops (%) Cert										
GXR-4 1F2-assay Kamloops (%) Meas										
GXR-4 1F2-assay Kamloops (%) Cert										
OREAS 14P 1F2-assay Kamloops (%) Meas										
OREAS 14P 1F2-assay Kamloops (%) Cert										
GBW 07238 1F2-assay Kamloops (%) Meas										
GBW 07238 1F2-assay Kamloops (%) Cert										
GBW 07239 1F2-assay Kamloops (%) Meas										
GBW 07239 1F2-assay Kamloops (%) Cert										
OREAS 922 (AQUA REGIA) Meas	0.2		1.2		0.16	67.4	14.7	2.4		
OREAS 922 (AQUA REGIA) Cert	0.61		1.12		0.14	60	14.5	1.98		
OREAS 922 (AQUA REGIA)										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Meas										
OREAS 922 (AQUA REGIA) Cert										
OREAS 923 (AQUA REGIA) Meas	0.4		1.8			0.14	88.8	14.5	2.4	
OREAS 923 (AQUA REGIA) Cert	0.60		1.96			0.12	81	14.3	1.80	
OREAS 923 (AQUA REGIA) Meas										
OREAS 923 (AQUA REGIA) Cert										
SdAR-M2 (U.S.G.S.) Meas	0.1	< 0.05	0.7				705	9.2	1.3	990
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas										
SdAR-M2 (U.S.G.S.) Cert										
CCU-1e Meas										
CCU-1e Cert										
742011 Orig										
742011 Dup										
742015 Orig	0.3	< 0.05	1.0	0.010	14.8	0.09	174	3.4	1.5	< 10
742015 Dup	0.2	< 0.05	0.9	0.010	28.2	0.10	179	3.6	1.6	< 10
742019 Orig										
742019 Dup										
742029 Orig	0.1	< 0.05	1.6	0.147	36.0	0.20	34.0	3.7	1.8	< 10
742029 Dup	0.2	< 0.05	1.6	0.151	23.6	0.21	35.8	3.9	1.9	< 10
742032 Orig										
742032 Dup										
742042 Orig	< 0.1	< 0.05	1.2	0.123	102	0.23	13.0	2.8	1.3	< 10
742046 Orig										
742046 Dup										
742052 Orig	0.1	< 0.05	1.0	0.059	16.4	0.11	69.2	3.8	1.8	< 10
742052 Split PREP DUP	0.2	< 0.05	1.0	0.056	17.7	0.10	69.9	3.9	1.8	< 10
742053 Orig										
742053 Dup										
742055 Orig	< 0.1	< 0.05	1.3	0.071	3.1	0.11	174	5.8	2.4	< 10
742055 Dup	< 0.1	< 0.05	1.6	0.064	< 0.5	0.11	174	5.7	2.3	< 10

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742066 Orig										
742066 Dup										
742067 Orig										
742067 Dup										
742078 Orig	< 0.1	< 0.05	1.4	0.046	< 0.5	0.16	19.9	1.9	0.8	< 10
742080 Orig										
742080 Dup										
742082 Orig										
742082 Dup										
742088 Orig										
742088 Dup										
Method Blank	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	< 0.01	< 0.1	< 0.1	< 10
Method Blank										
Method Blank										
Method Blank										
Method Blank										
Method Blank										
Method Blank										
Method Blank										

Quality Analysis ...



Innovative Technologies

Date Submitted: 06-Sep-17
Invoice No.: A17-09680
Invoice Date: 10-Oct-17
Your Reference: ECSTASY-CJED-2

Amarc Resources Ltd.
1500-1040 W Georgia St.,
Vancouver
BC V6E 4H1 Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

95 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1C-OES-Kamloops Fire Assay ICPOES
 Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)
 Code Sieve Report-Kamloops Internal Sieve Report Internal
 Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-09680

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
 Quality Control

ACTIVATION LABORATORIES LTD.

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Results

Activation Laboratories Ltd.

Report: A17-09680

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742092	13	< 5	< 5	< 3.0	8.8	< 30	1220	< 10	< 20	0.2	18	20	20	0.171	2.6	< 10	< 10	4.4	< 10	0.4	0.024	0.018	0.2
742093	15	< 5	< 5	< 3.0	8.9	< 30	1180	< 10	< 20	0.3	19	10	20	0.158	2.9	10	< 10	4.3	< 10	0.5	0.035	0.012	0.5
742094	6	< 5	< 5	< 3.0	9.5	< 30	1020	< 10	< 20	0.4	4	< 10	20	0.080	2.7	20	< 10	4.5	< 10	0.5	0.051	0.008	0.5
742095	29	< 5	< 5	< 3.0	8.9	< 30	1180	< 10	< 20	0.2	< 3	10	20	0.128	3.1	20	< 10	4.5	< 10	0.4	0.023	0.007	0.4
742096	22	< 5	< 5	< 3.0	8.9	< 30	1220	< 10	< 20	0.6	8	10	20	0.096	3.6	20	< 10	3.6	< 10	0.7	0.069	0.001	1.4
742097	8	< 5	< 5	< 3.0	8.6	< 30	1310	< 10	< 20	1.8	< 3	< 10	20	0.072	2.8	20	< 10	3.3	< 10	0.5	0.058	< 0.001	2.1
742098	12	< 5	< 5	< 3.0	8.9	< 30	1190	< 10	< 20	2.2	< 3	< 10	20	0.043	2.7	20	< 10	3.2	< 10	0.5	0.064	< 0.001	1.9
742099	2	< 5	< 5	< 3.0	8.7	< 30	1170	< 10	< 20	2.2	< 3	< 10	10	0.035	2.5	10	< 10	3.5	< 10	0.6	0.067	0.002	1.7
742100D	3	< 5	< 5	< 3.0	8.2	< 30	1320	< 10	< 20	2.1	< 3	< 10	20	0.033	2.4	20	< 10	2.8	< 10	0.5	0.074	0.002	1.7
742101	39	< 5	< 5	< 3.0	8.5	< 30	1650	< 10	< 20	3.6	< 3	< 10	20	0.024	3.7	< 10	< 10	2.4	< 10	0.9	0.148	< 0.001	2.4
742102	3	< 5	< 5	< 3.0	8.8	< 30	1440	< 10	< 20	3.6	< 3	< 10	10	0.003	3.6	10	< 10	2.9	< 10	0.9	0.145	< 0.001	2.1
742103	30	< 5	< 5	< 3.0	8.5	< 30	1580	< 10	< 20	3.4	< 3	< 10	10	0.008	3.6	20	< 10	3.3	< 10	0.8	0.145	< 0.001	2.2
742104	14	< 5	< 5	< 3.0	8.7	< 30	1510	< 10	< 20	3.4	< 3	< 10	20	0.005	3.6	< 10	< 10	3.3	< 10	0.9	0.159	< 0.001	2.2
742105	< 2	< 5	< 5	< 3.0	8.6	< 30	1380	< 10	< 20	3.6	< 3	10	10	0.006	3.7	10	< 10	2.8	< 10	0.9	0.155	< 0.001	2.5
742106	< 2	< 5	< 5	< 3.0	9.4	< 30	1660	< 10	< 20	3.9	< 3	10	30	0.002	5.2	10	< 10	2.5	10	1.4	0.174	< 0.001	2.8
742107	11	< 5	< 5	< 3.0	8.6	< 30	2480	< 10	< 20	3.8	< 3	< 10	20	0.016	3.7	< 10	< 10	3.8	< 10	0.9	0.169	< 0.001	1.7
742108	14	< 5	< 5	< 3.0	8.3	< 30	840	< 10	< 20	2.1	< 3	< 10	20	0.105	3.3	20	< 10	3.1	< 10	0.8	0.075	0.004	1.3
742109	< 2	< 5	< 5	< 3.0	9.0	< 30	1450	< 10	< 20	4.5	< 3	< 10	10	0.002	3.7	< 10	< 10	2.5	< 10	0.9	0.148	0.003	2.1
742110	161	6	< 5	< 3.0	8.4	< 30	1010	< 10	< 20	5.2	3	30	60	0.114	6.1	10	< 10	2.2	20	2.1	0.095	0.002	1.9
742111	< 2	< 5	< 5	< 3.0	9.1	40	2110	< 10	< 20	4.5	< 3	< 10	20	0.001	4.3	20	< 10	2.3	< 10	1.1	0.159	0.003	2.2
742112	< 2	< 5	< 5	< 3.0	8.8	< 30	1830	< 10	< 20	3.9	< 3	< 10	20	< 0.001	3.7	< 10	< 10	2.9	< 10	0.9	0.160	< 0.001	2.5
742113	< 2	< 5	< 5	< 3.0	7.9	< 30	1680	< 10	< 20	3.3	< 3	< 10	20	0.004	3.2	10	< 10	2.8	< 10	0.8	0.145	< 0.001	2.1
742114	8	< 5	< 5	< 3.0	8.8	< 30	1540	< 10	< 20	4.6	< 3	< 10	20	< 0.001	3.6	< 10	10	2.4	< 10	0.9	0.156	< 0.001	2.1
742115	5	< 5	< 5	< 3.0	8.5	< 30	1770	< 10	< 20	4.1	< 3	< 10	10	0.001	3.9	10	< 10	2.6	< 10	0.9	0.153	0.001	2.0
742116	< 2	< 5	< 5	< 3.0	8.6	< 30	1350	< 10	< 20	4.2	< 3	< 10	< 10	< 0.001	3.6	< 10	< 10	2.7	< 10	0.9	0.132	< 0.001	1.8
742117	< 2	< 5	< 5	< 3.0	8.5	< 30	1220	< 10	< 20	3.7	< 3	< 10	< 10	< 0.001	4.0	20	< 10	2.4	< 10	1.0	0.113	< 0.001	2.2
742118	7	< 5	< 5	< 3.0	8.7	< 30	1300	< 10	< 20	4.6	< 3	< 10	10	< 0.001	3.9	20	< 10	2.7	10	1.0	0.136	0.002	1.8
742119	< 2	< 5	< 5	< 3.0	8.5	< 30	1460	< 10	< 20	4.2	< 3	< 10	< 10	0.005	3.3	20	< 10	2.5	< 10	0.8	0.121	< 0.001	2.0
742120D	< 2	< 5	< 5	< 3.0	8.5	< 30	1530	< 10	< 20	4.2	< 3	< 10	20	0.009	3.5	< 10	< 10	2.6	< 10	0.8	0.135	< 0.001	2.0
742121	67	< 5	< 5	< 3.0	8.8	< 30	860	< 10	< 20	3.3	< 3	10	< 10	0.014	4.1	20	< 10	3.1	< 10	0.7	0.104	< 0.001	1.8
742122	53	< 5	< 5	< 3.0	8.4	< 30	930	< 10	< 20	4.1	< 3	10	< 10	0.015	4.4	10	< 10	3.4	< 10	0.7	0.102	0.001	1.1
742123	83	< 5	< 5	4.4	7.8	< 30	920	< 10	< 20	3.3	< 3	10	10	0.025	4.5	20	< 10	3.7	< 10	0.6	0.081	0.003	0.6
742124	107	< 5	< 5	3.6	8.8	< 30	1160	< 10	< 20	2.9	< 3	10	10	0.071	2.7	20	< 10	3.6	< 10	0.5	0.059	0.003	1.5
742125	2	< 5	< 5	4.1	9.0	< 30	1870	< 10	< 20	3.3	< 3	< 10	20	0.052	4.1	20	< 10	3.6	10	1.0	0.157	< 0.001	1.9
742126	3	< 5	< 5	< 3.0	8.7	30	1890	< 10	< 20	2.4	< 3	< 10	20	0.063	4.0	< 10	< 10	3.3	< 10	1.0	0.155	< 0.001	2.1
742127	6	< 5	< 5	< 3.0	8.7	< 30	2120	< 10	< 20	2.8	< 3	< 10	20	0.043	3.7	< 10	< 10	3.6	< 10	0.9	0.143	< 0.001	2.1
742128	4	< 5	< 5	< 3.0	8.7	< 30	2840	< 10	< 20	2.6	< 3	10	10	0.055	3.6	20	< 10	3.8	< 10	0.9	0.140	< 0.001	1.8
742129	6	6	< 5	< 3.0	8.8	< 30	1190	< 10	< 20	2.3	< 3	< 10	20	0.129	2.5	20	10	3.0	< 10	0.5	0.068	< 0.001	2.2
742130	62	12	< 5	< 3.0	8.6	< 30	190	< 10	< 20	2.1	< 3	10	40	0.186	3.6	10	< 10	1.2	< 10	1.6	0.034	0.006	2.2
742131	7	7	< 5	< 3.0	8.3	< 30	1140	< 10	< 20	2.1	< 3	< 10	20	0.172	2.1	10	< 10	2.9	< 10	0.5	0.070	0.002	2.5
742132	6	< 5	< 5	< 3.0	7.5	< 30	1320	< 10	< 20	5.0	< 3	< 10	20	0.182	3.1	< 10	< 10	3.4	< 10	0.6	0.110	0.005	0.9
742133	9	7	< 5	< 3.0	8.1	< 30	1200	< 10	< 20	3.0	< 3	< 10	20	0.145	2.7	20	< 10	3.3	< 10	0.6	0.087	0.004	1.4

Results

Activation Laboratories Ltd.

Report: A17-09680

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742134	9	10	< 5	3.7	8.0	< 30	1280	< 10	< 20	2.2	5	< 10	20	0.352	2.3	< 10	< 10	3.0	< 10	0.5	0.051	0.010	1.7
742135	5	< 5	< 5	< 3.0	8.8	< 30	1110	< 10	< 20	3.0	< 3	10	20	0.115	2.8	20	< 10	3.3	10	0.8	0.090	0.003	1.9
742136	< 2	< 5	< 5	< 3.0	8.9	< 30	1720	< 10	< 20	1.9	< 3	< 10	10	0.003	3.0	10	< 10	3.4	< 10	0.6	0.096	< 0.001	3.9
742137	< 2	< 5	< 5	< 3.0	9.2	< 30	1790	< 10	< 20	1.8	< 3	< 10	< 10	0.001	2.9	20	< 10	3.4	< 10	0.7	0.093	< 0.001	3.9
742138	< 2	< 5	< 5	< 3.0	8.6	< 30	1070	< 10	< 20	3.8	< 3	< 10	10	0.002	3.2	10	< 10	2.5	< 10	0.8	0.089	< 0.001	1.9
742139	< 2	< 5	< 5	< 3.0	8.6	< 30	500	< 10	< 20	4.4	< 3	< 10	20	< 0.001	3.2	20	< 10	1.4	< 10	0.8	0.072	< 0.001	2.5
742140D	< 2	< 5	< 5	< 3.0	8.4	< 30	500	< 10	< 20	4.3	< 3	< 10	10	< 0.001	3.1	20	< 10	1.3	< 10	0.8	0.070	< 0.001	2.5
742141	< 2	< 5	< 5	< 3.0	8.7	< 30	290	< 10	< 20	3.4	< 3	< 10	30	< 0.001	2.0	20	< 10	0.8	< 10	0.5	0.054	< 0.001	3.9
742142	< 2	< 5	< 5	< 3.0	8.7	< 30	420	< 10	< 20	3.6	< 3	< 10	30	< 0.001	2.4	20	< 10	0.8	< 10	0.7	0.066	< 0.001	3.3
742143	< 2	< 5	< 5	< 3.0	9.4	< 30	820	< 10	< 20	5.1	< 3	< 10	20	< 0.001	3.6	10	< 10	1.3	< 10	0.9	0.081	< 0.001	2.9
742144	< 2	< 5	< 5	< 3.0	9.3	< 30	390	< 10	< 20	4.5	< 3	< 10	10	0.002	3.6	10	< 10	1.2	< 10	0.9	0.082	< 0.001	2.5
742145	< 2	< 5	< 5	< 3.0	8.9	< 30	1120	< 10	< 20	3.8	< 3	< 10	20	< 0.001	2.8	< 10	20	1.4	< 10	0.7	0.068	< 0.001	3.0
742146	< 2	< 5	< 5	< 3.0	8.9	< 30	1720	< 10	< 20	4.4	< 3	< 10	30	< 0.001	3.6	< 10	< 10	1.7	< 10	0.9	0.098	< 0.001	2.4
742147	< 2	< 5	< 5	< 3.0	8.8	< 30	690	< 10	< 20	3.7	< 3	< 10	20	< 0.001	3.6	10	< 10	1.2	< 10	0.9	0.086	< 0.001	3.0
742148	< 2	< 5	< 5	< 3.0	8.4	< 30	810	< 10	< 20	4.3	< 3	< 10	20	< 0.001	3.0	< 10	< 10	1.1	< 10	0.9	0.080	< 0.001	2.9
742149	< 2	< 5	< 5	< 3.0	8.6	< 30	1210	< 10	< 20	3.7	< 3	< 10	10	0.001	3.8	20	< 10	1.9	< 10	0.9	0.090	< 0.001	2.6
742150	150	< 5	< 5	< 3.0	8.3	60	1080	< 10	< 20	5.2	< 3	< 10	30	0.110	6.1	< 10	< 10	2.3	20	2.1	0.095	0.001	1.9
742151	< 2	< 5	< 5	< 3.0	8.3	< 30	1080	< 10	< 20	2.3	< 3	< 10	20	0.002	2.2	< 10	< 10	2.3	< 10	0.5	0.054	< 0.001	3.1
742152	4	< 5	< 5	< 3.0	8.0	< 30	1540	< 10	< 20	2.8	< 3	< 10	20	0.004	2.9	10	< 10	3.6	< 10	0.4	0.044	0.007	2.0
742153	3	< 5	< 5	< 3.0	7.9	< 30	1400	< 10	< 20	1.7	< 3	< 10	30	0.004	2.1	10	< 10	3.7	< 10	0.4	0.047	0.001	1.9
742154	9	< 5	< 5	< 3.0	8.1	< 30	1150	< 10	< 20	1.3	< 3	< 10	40	0.015	2.8	10	< 10	3.7	< 10	0.5	0.057	0.001	1.6
742155	< 2	< 5	< 5	< 3.0	8.4	< 30	1070	< 10	< 20	1.9	< 3	< 10	20	0.004	1.7	< 10	< 10	2.5	< 10	0.4	0.047	< 0.001	3.2
742156	< 2	< 5	< 5	< 3.0	8.3	< 30	400	< 10	< 20	1.9	< 3	< 10	20	< 0.001	1.7	10	< 10	0.8	< 10	0.4	0.049	< 0.001	4.2
742157	< 2	< 5	< 5	< 3.0	8.5	< 30	610	< 10	< 20	2.1	< 3	< 10	20	< 0.001	1.6	10	< 10	1.1	< 10	0.4	0.043	0.011	4.2
742158	< 2	< 5	< 5	< 3.0	7.8	< 30	1120	< 10	< 20	1.8	< 3	< 10	40	< 0.001	1.9	10	< 10	1.6	< 10	0.5	0.051	< 0.001	3.9
742159	< 2	< 5	< 5	< 3.0	8.5	< 30	620	< 10	< 20	2.9	< 3	< 10	20	< 0.001	1.4	10	< 10	1.3	< 10	0.4	0.046	0.001	3.3
742160D	< 2	< 5	< 5	< 3.0	8.3	< 30	630	< 10	< 20	2.8	< 3	< 10	20	< 0.001	1.4	10	< 10	1.3	< 10	0.4	0.045	0.001	3.3
742161	9	< 5	< 5	< 3.0	8.8	< 30	350	< 10	< 20	4.3	< 3	< 10	20	< 0.001	1.9	20	< 10	0.8	< 10	0.4	0.065	< 0.001	3.0
742162	3	< 5	< 5	< 3.0	8.6	< 30	1170	< 10	< 20	2.1	< 3	< 10	20	< 0.001	1.6	10	< 10	2.0	< 10	0.4	0.047	0.001	3.6
742163	< 2	< 5	< 5	< 3.0	8.6	< 30	1130	< 10	< 20	2.0	< 3	< 10	20	0.004	1.8	20	< 10	2.3	< 10	0.5	0.047	< 0.001	3.5
742164	< 2	< 5	< 5	< 3.0	8.7	< 30	1380	< 10	< 20	1.6	< 3	< 10	20	< 0.001	1.5	20	< 10	2.5	< 10	0.5	0.043	0.003	3.8
742165	< 2	< 5	< 5	< 3.0	8.6	< 30	1030	< 10	< 20	2.0	< 3	< 10	20	< 0.001	1.2	10	< 10	1.8	< 10	0.4	0.035	0.002	4.1
742166	< 2	< 5	< 5	< 3.0	8.6	< 30	1350	< 10	< 20	2.4	< 3	< 10	20	0.002	1.6	< 10	< 10	2.2	< 10	0.5	0.038	0.002	3.5
742167	< 2	< 5	< 5	< 3.0	8.3	< 30	1040	< 10	< 20	2.1	< 3	< 10	20	< 0.001	1.6	20	< 10	2.0	< 10	0.5	0.033	< 0.001	3.5
742168	< 2	< 5	< 5	< 3.0	8.3	< 30	860	< 10	< 20	2.1	< 3	< 10	30	< 0.001	1.5	< 10	< 10	0.4	< 10	0.4	0.031	< 0.001	3.3
742169	< 2	< 5	< 5	< 3.0	7.9	< 30	1520	< 10	< 20	2.7	< 3	< 10	70	0.002	1.4	< 10	< 10	3.2	< 10	0.3	0.020	0.002	2.3
742170	2	< 5	< 5	< 3.0	6.0	< 30	530	< 10	< 20	1.8	< 3	< 10	70	0.003	2.7	< 10	< 10	1.1	10	0.8	0.055	< 0.001	2.1
742171	< 2	< 5	< 5	< 3.0	8.6	< 30	1060	< 10	< 20	2.2	< 3	< 10	30	< 0.001	1.8	20	< 10	2.0	< 10	0.5	0.039	< 0.001	3.4
742172	< 2	< 5	< 5	< 3.0	8.8	< 30	530	< 10	< 20	2.1	< 3	< 10	20	< 0.001	1.9	20	< 10	1.1	< 10	0.5	0.046	< 0.001	4.2
742173	< 2	< 5	< 5	< 3.0	9.4	< 30	640	< 10	< 20	3.4	< 3	< 10	20	< 0.001	4.0	20	< 10	1.0	< 10	0.9	0.085	< 0.001	3.5
742174	< 2	< 5	< 5	< 3.0	9.1	< 30	720	< 10	< 20	2.5	< 3	< 10	20	< 0.001	2.7	20	< 10	1.1	< 10	0.6	0.058	0.002	3.7
742175	< 2	< 5	< 5	< 3.0	8.6	< 30	1010	< 10	< 20	2.4	< 3	< 10	20	< 0.001	1.7	20	< 10	1.5	< 10	0.4	0.050	< 0.001	3.5

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Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742176	< 2	< 5	< 5	< 3.0	8.4	< 30	1440	< 10	< 20	2.2	< 3	< 10	20	< 0.001	1.5	< 10	< 10	3.0	< 10	0.5	0.059	0.002	3.1
742177	< 2	< 5	< 5	< 3.0	8.4	< 30	1590	< 10	< 20	3.6	< 3	< 10	20	< 0.001	3.3	10	< 10	2.8	< 10	0.9	0.116	< 0.001	2.0
742178	< 2	< 5	< 5	< 3.0	9.1	< 30	1390	< 10	< 20	3.3	< 3	< 10	20	0.004	4.6	< 10	< 10	3.0	< 10	1.4	0.147	< 0.001	3.4
742179	9	< 5	< 5	< 3.0	9.0	< 30	1680	< 10	< 20	3.3	< 3	< 10	30	< 0.001	4.0	10	< 10	2.7	< 10	1.1	0.108	< 0.001	2.8
742180D	3	< 5	< 5	< 3.0	8.7	30	1620	< 10	< 20	3.3	< 3	10	30	< 0.001	3.9	20	< 10	2.4	< 10	1.0	0.109	< 0.001	2.7
742181	< 2	< 5	< 5	< 3.0	7.7	< 30	1270	< 10	< 20	2.5	< 3	< 10	40	< 0.001	1.2	20	< 10	3.7	< 10	0.4	0.042	< 0.001	2.7
742182	< 2	< 5	< 5	< 3.0	8.1	< 30	1710	< 10	< 20	2.6	< 3	< 10	30	< 0.001	1.0	< 10	< 10	2.1	< 10	0.4	0.046	< 0.001	3.2
742183	< 2	< 5	< 5	< 3.0	8.4	< 30	1900	< 10	< 20	2.0	< 3	< 10	30	< 0.001	2.2	10	< 10	3.4	< 10	0.8	0.063	< 0.001	2.7
742184	2	< 5	< 5	< 3.0	8.5	< 30	2180	< 10	< 20	2.2	< 3	< 10	40	< 0.001	1.8	10	< 10	4.5	< 10	0.7	0.052	< 0.001	2.6
742185	< 2	< 5	< 5	< 3.0	7.7	< 30	1430	< 10	< 20	2.3	< 3	< 10	30	< 0.001	1.1	< 10	10	2.4	< 10	0.3	0.034	< 0.001	2.9
952386	< 2	< 5	< 5	< 3.0	5.8	< 30	520	< 10	< 20	1.7	< 3	10	60	0.002	2.6	< 10	< 10	0.8	10	0.8	0.047	< 0.001	2.1

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742092	< 0.001	0.06	< 30	1.8	< 50	< 40	40	< 20	0.2	< 50	< 100	40	< 50	< 10	0.007	50	0.007	2	0.050	0.8	0.3	3	0.030
742093	< 0.001	0.05	< 30	1.9	< 50	< 40	60	< 20	0.2	< 50	< 100	40	< 50	< 10	0.006	50	0.006	2	0.045	1.1	0.3	< 1	0.029
742094	< 0.001	0.08	< 30	1.3	< 50	< 40	80	30	0.2	< 50	< 100	50	< 50	< 10	0.006	50	0.008	1	0.058	1.2	0.3	2	0.029
742095	< 0.001	0.06	< 30	2.5	< 50	< 40	30	30	0.2	< 50	< 100	50	< 50	< 10	0.006	50	0.003	2	0.055	0.7	0.3	< 1	0.025
742096	< 0.001	0.05	< 30	2.7	< 50	< 40	120	30	0.2	< 50	< 100	50	< 50	< 10	0.009	50	0.006	2	0.042	2.5	0.3	3	0.044
742097	< 0.001	0.05	< 30	2.8	< 50	< 40	290	< 20	0.2	< 50	< 100	40	< 50	< 10	0.014	< 50	0.007	3	0.042	2.3	0.4	4	0.071
742098	< 0.001	0.05	< 30	2.5	< 50	< 40	310	30	0.2	< 50	< 100	40	< 50	< 10	0.007	60	0.014	2	0.042	2.6	0.4	3	0.058
742099	< 0.001	0.05	< 30	1.7	< 50	< 40	300	< 20	0.2	< 50	< 100	50	< 50	< 10	0.007	50	0.033	1	0.045	1.8	0.3	< 1	0.041
742100D	< 0.001	0.05	< 30	1.7	< 50	< 40	290	< 20	0.2	< 50	< 100	50	< 50	< 10	0.007	50	0.039	2	0.045	2.0	0.3	1	0.047
742101	< 0.001	0.08	< 30	0.6	< 50	< 40	500	20	0.3	< 50	< 100	80	< 50	20	0.006	70	0.144	< 1	0.067	5.2	0.5	3	0.075
742102	< 0.001	0.08	< 30	0.5	< 50	< 40	510	< 20	0.3	< 50	< 100	90	< 50	20	0.006	70	0.134	< 1	0.073	5.6	0.6	< 1	0.058
742103	< 0.001	0.08	< 30	0.4	< 50	< 40	470	30	0.3	< 50	< 100	90	< 50	20	0.005	70	0.135	< 1	0.073	6.3	0.6	< 1	0.057
742104	< 0.001	0.07	< 30	0.6	< 50	< 40	450	< 20	0.3	< 50	< 100	90	< 50	20	0.006	70	0.132	< 1	0.071	5.6	0.5	5	0.079
742105	< 0.001	0.08	< 30	0.8	< 50	< 40	490	30	0.3	< 50	< 100	80	< 50	20	0.005	70	0.140	< 1	0.082	5.5	0.4	< 1	0.061
742106	< 0.001	0.10	< 30	0.3	< 50	< 40	590	< 20	0.4	< 50	< 100	160	< 50	20	0.006	80	0.201	< 1	0.109	10.9	0.6	< 1	0.070
742107	< 0.001	0.08	< 30	1.3	< 50	< 40	580	< 20	0.3	< 50	< 100	80	< 50	20	0.006	60	0.126	1	0.075	5.6	0.4	4	0.056
742108	< 0.001	0.06	< 30	2.3	< 50	< 40	200	20	0.3	< 50	< 100	70	< 50	20	0.008	< 50	0.003	2	0.055	4.0	0.3	< 1	0.037
742109	< 0.001	0.09	< 30	0.8	< 50	< 40	530	< 20	0.3	< 50	< 100	90	< 50	20	0.005	70	0.059	< 1	0.091	5.0	0.5	< 1	0.049
742110	0.003	0.14	30	1.4	< 50	< 40	360	< 20	0.5	< 50	< 100	220	< 50	20	0.010	80	0.043	1	0.145	15.5	0.5	6	0.128
742111	< 0.001	0.09	< 30	0.3	< 50	< 40	630	< 20	0.3	< 50	< 100	120	< 50	20	0.006	60	0.151	< 1	0.075	6.8	0.5	4	0.081
742112	< 0.001	0.08	< 30	0.2	< 50	< 40	580	< 20	0.3	< 50	< 100	90	< 50	20	0.005	60	0.144	< 1	0.067	4.4	0.4	3	0.071
742113	< 0.001	0.07	< 30	0.3	< 50	< 40	450	< 20	0.3	< 50	< 100	70	< 50	20	0.007	50	0.083	< 1	0.082	4.6	0.4	< 1	0.059
742114	< 0.001	0.08	30	0.6	< 50	< 40	570	30	0.3	< 50	< 100	90	< 50	20	0.005	60	0.078	< 1	0.082	4.4	0.4	< 1	0.051
742115	< 0.001	0.09	< 30	0.5	< 50	< 40	550	< 20	0.3	< 50	< 100	90	< 50	20	0.004	80	0.119	< 1	0.100	4.8	0.4	< 1	0.052
742116	< 0.001	0.08	60	0.5	< 50	< 40	440	20	0.3	< 50	< 100	90	< 50	20	0.004	60	0.022	< 1	0.073	4.1	0.4	< 1	0.047
742117	< 0.001	0.08	< 30	0.7	< 50	< 40	380	30	0.3	< 50	< 100	90	< 50	20	0.006	70	0.013	< 1	0.075	6.1	0.5	5	0.082
742118	< 0.001	0.09	< 30	0.6	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	20	0.009	80	0.010	< 1	0.079	6.2	0.5	5	0.061
742119	< 0.001	0.08	40	0.6	< 50	< 40	500	< 20	0.3	< 50	< 100	80	< 50	20	0.006	60	0.039	< 1	0.073	4.8	0.4	< 1	0.054
742120D	< 0.001	0.08	60	0.7	< 50	< 40	490	40	0.3	< 50	< 100	80	< 50	20	0.006	70	0.037	< 1	0.073	4.6	0.3	< 1	0.051
742121	< 0.001	0.10	< 30	4.3	< 50	< 40	340	50	0.3	< 50	< 100	70	< 50	20	0.009	60	0.084	3	0.073	3.9	0.3	< 1	0.043
742122	< 0.001	0.10	< 30	5.0	< 50	< 40	350	< 20	0.3	< 50	< 100	80	< 50	20	0.013	50	0.069	5	0.083	4.0	0.3	3	0.055
742123	< 0.001	0.09	< 30	4.7	< 50	< 40	240	< 20	0.3	< 50	< 100	60	< 50	20	0.015	< 50	0.033	6	0.109	5.3	0.4	< 1	0.047
742124	< 0.001	0.06	40	3.4	< 50	< 40	290	30	0.2	< 50	< 100	60	< 50	10	0.010	50	0.020	3	0.050	3.0	0.2	4	0.052
742125	< 0.001	0.09	< 30	1.5	< 50	< 40	330	20	0.3	< 50	< 100	90	< 50	20	0.015	70	0.017	1	0.075	6.7	0.6	5	0.080
742126	< 0.001	0.08	< 30	1.4	< 50	< 40	340	30	0.3	< 50	< 100	80	< 50	20	0.013	60	0.010	1	0.082	4.9	0.4	< 1	0.059
742127	0.001	0.08	< 30	1.9	< 50	< 40	380	30	0.3	< 50	< 100	80	< 50	20	0.017	60	0.008	2	0.082	5.4	0.3	< 1	0.064
742128	< 0.001	0.08	30	1.8	< 50	< 40	410	30	0.3	< 50	< 100	80	< 50	20	0.014	60	0.005	2	0.073	5.3	0.4	< 1	0.047
742129	< 0.001	0.05	40	2.1	< 50	< 40	300	< 20	0.2	< 50	< 100	40	< 50	< 10	0.010	60	0.004	2	0.033	3.7	0.4	4	0.057
742130	0.002	0.06	40	0.7	< 50	< 40	160	< 20	0.4	< 50	< 100	210	< 50	20	0.023	60	0.067	< 1	0.055	5.9	0.2	< 1	0.182
742131	< 0.001	0.04	60	2.0	< 50	< 40	300	< 20	0.2	< 50	< 100	40	< 50	< 10	0.007	60	0.002	2	0.045	2.6	0.3	< 1	0.062
742132	< 0.001	0.06	< 30	4.4	< 50	< 40	440	20	0.2	< 50	< 100	60	< 50	10	0.011	60	0.005	4	0.055	3.8	0.4	< 1	0.043
742133	< 0.001	0.05	70	2.8	< 50	< 40	310	30	0.2	< 50	< 100	50	< 50	10	0.018	50	0.002	3	0.042	3.9	0.4	5	0.063

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
742134	< 0.001	0.04	100	2.3	< 50	< 40	270	60	0.2	< 50	< 100	40	< 50	< 10	0.039	50	0.001	2	0.045	4.2	0.3	< 1	0.053
742135	< 0.001	0.06	60	1.7	< 50	< 40	300	< 20	0.2	< 50	< 100	70	< 50	10	0.032	70	0.031	2	0.050	7.6	0.6	7	0.075
742136	< 0.001	0.07	80	0.3	< 50	< 40	230	< 20	0.3	< 50	< 100	60	< 50	20	0.017	170	0.058	< 1	0.064	6.4	0.5	< 1	0.123
742137	< 0.001	0.08	30	0.3	< 50	< 40	280	< 20	0.3	< 50	< 100	70	< 50	20	0.014	160	0.078	< 1	0.073	7.2	0.5	< 1	0.111
742138	< 0.001	0.07	< 30	0.5	< 50	< 40	410	< 20	0.3	< 50	< 100	80	< 50	20	0.009	70	0.052	< 1	0.073	6.2	0.6	3	0.068
742139	< 0.001	0.08	< 30	0.2	< 50	< 40	630	< 20	0.3	< 50	< 100	90	< 50	20	0.005	60	0.054	< 1	0.082	4.4	0.4	1	0.072
742140D	< 0.001	0.08	< 30	0.2	< 50	< 40	620	< 20	0.3	< 50	< 100	80	< 50	20	0.004	60	0.058	< 1	0.075	4.9	0.5	6	0.086
742141	< 0.001	0.05	< 30	0.3	< 50	< 40	650	< 20	0.2	< 50	< 100	50	< 50	< 10	0.002	< 50	0.088	< 1	0.045	2.1	0.3	< 1	0.083
742142	< 0.001	0.06	< 30	0.2	< 50	< 40	710	< 20	0.2	< 50	< 100	70	< 50	10	0.003	< 50	0.117	< 1	0.064	3.0	0.3	< 1	0.073
742143	< 0.001	0.08	< 30	0.8	< 50	< 40	860	< 20	0.3	< 50	< 100	90	< 50	20	0.004	60	0.140	< 1	0.073	4.6	0.6	< 1	0.067
742144	< 0.001	0.08	< 30	0.2	< 50	< 40	700	< 20	0.3	< 50	< 100	80	< 50	20	0.005	60	0.105	< 1	0.077	4.1	0.5	2	0.065
742145	< 0.001	0.07	< 30	0.4	< 50	< 40	690	< 20	0.3	< 50	< 100	70	< 50	20	0.003	< 50	0.121	< 1	0.073	4.1	0.4	2	0.081
742146	< 0.001	0.08	40	0.1	< 50	< 40	810	40	0.3	< 50	< 100	90	< 50	20	0.004	60	0.131	< 1	0.073	4.8	0.4	< 1	0.053
742147	< 0.001	0.08	< 30	0.2	< 50	< 40	730	< 20	0.3	< 50	< 100	80	< 50	20	0.004	60	0.169	< 1	0.091	5.7	0.4	1	0.081
742148	< 0.001	0.08	< 30	0.4	< 50	< 40	720	< 20	0.3	< 50	< 100	80	< 50	20	0.004	60	0.141	< 1	0.082	4.8	0.4	3	0.063
742149	< 0.001	0.08	< 30	0.5	< 50	< 40	680	< 20	0.3	< 50	< 100	80	< 50	20	0.005	70	0.135	< 1	0.064	4.7	0.4	< 1	0.055
742150	0.003	0.14	< 30	1.4	< 50	< 40	350	< 20	0.5	< 50	< 100	220	< 50	20	0.011	70	0.035	1	0.118	11.7	0.4	8	0.105
742151	0.003	0.04	< 30	0.5	< 50	< 40	440	20	0.2	< 50	< 100	40	< 50	10	0.003	< 50	0.044	< 1	0.036	2.7	0.3	< 1	0.055
742152	< 0.001	0.04	< 30	2.2	< 50	< 40	440	< 20	0.2	< 50	< 100	40	< 50	< 10	0.003	< 50	0.038	2	0.027	2.5	0.4	2	0.056
742153	< 0.001	0.04	< 30	1.3	< 50	< 40	340	30	0.2	< 50	< 100	40	< 50	< 10	0.005	< 50	0.047	1	0.027	2.6	0.3	< 1	0.052
742154	< 0.001	0.04	< 30	1.7	< 50	< 40	280	20	0.1	< 50	< 100	30	< 50	< 10	0.015	< 50	0.016	2	0.036	3.1	0.4	3	0.058
742155	< 0.001	0.04	50	0.7	< 50	< 40	400	< 20	0.2	< 50	< 100	30	< 50	< 10	0.005	< 50	0.050	< 1	0.036	2.6	0.3	< 1	0.076
742156	< 0.001	0.04	< 30	0.3	< 50	< 40	370	< 20	0.2	< 50	< 100	30	< 50	< 10	0.002	< 50	0.076	< 1	0.036	2.5	0.3	< 1	0.112
742157	< 0.001	0.04	< 30	0.5	< 50	< 40	460	< 20	0.2	< 50	< 100	30	< 50	< 10	0.003	< 50	0.086	< 1	0.036	2.5	0.3	3	0.103
742158	< 0.001	0.04	< 30	0.5	< 50	< 40	390	< 20	0.2	< 50	< 100	40	< 50	< 10	0.003	< 50	0.060	< 1	0.036	3.1	0.3	< 1	0.103
742159	< 0.001	0.04	< 30	0.3	< 50	< 40	530	40	0.2	< 50	< 100	30	< 50	< 10	0.003	< 50	0.052	< 1	0.033	2.7	0.3	4	0.104
742160D	< 0.001	0.04	< 30	0.3	< 50	< 40	520	30	0.2	< 50	< 100	30	< 50	< 10	0.004	< 50	0.042	< 1	0.027	2.4	0.3	< 1	0.077
742161	< 0.001	0.04	< 30	0.5	< 50	< 40	760	< 20	0.2	< 50	< 100	50	< 50	< 10	0.002	< 50	0.072	< 1	0.036	2.3	0.3	< 1	0.063
742162	< 0.001	0.04	< 30	0.4	< 50	< 40	540	< 20	0.2	< 50	< 100	30	< 50	< 10	0.010	< 50	0.071	< 1	0.036	3.2	0.3	< 1	0.106
742163	< 0.001	0.04	< 30	0.5	< 50	< 40	460	< 20	0.2	< 50	< 100	30	< 50	< 10	0.005	< 50	0.047	< 1	0.036	3.4	0.3	< 1	0.088
742164	< 0.001	0.04	< 30	0.3	< 50	< 40	370	20	0.2	< 50	< 100	30	< 50	10	0.004	< 50	0.027	< 1	0.045	4.0	0.3	2	0.107
742165	< 0.001	0.04	< 30	0.5	< 50	< 40	400	< 20	0.2	< 50	< 100	30	< 50	< 10	0.002	< 50	0.057	< 1	0.036	3.1	0.3	< 1	0.087
742166	< 0.001	0.04	< 30	0.8	< 50	< 40	540	30	0.2	< 50	< 100	30	< 50	< 10	0.003	< 50	0.087	< 1	0.036	4.8	0.4	3	0.107
742167	< 0.001	0.04	< 30	0.5	< 50	< 40	500	30	0.2	< 50	< 100	30	< 50	< 10	0.002	< 50	0.064	< 1	0.036	4.2	0.5	1	0.095
742168	0.001	0.04	< 30	0.4	< 50	< 40	500	20	0.2	< 50	< 100	30	< 50	< 10	0.004	< 50	0.095	< 1	0.036	4.0	0.5	1	0.117
742169	< 0.001	0.04	< 30	1.6	< 50	< 40	490	< 20	0.2	< 50	< 100	30	< 50	< 10	0.001	< 50	0.054	2	0.036	3.5	0.2	1	0.069
742170	0.004	0.05	< 30	< 0.1	< 50	< 40	240	40	0.3	< 50	< 100	80	< 50	20	0.004	80	0.149	< 1	0.050	8.8	0.3	9	0.144
742171	0.003	0.04	< 30	0.7	< 50	< 40	470	< 20	0.2	< 50	< 100	40	< 50	< 10	0.003	< 50	0.080	< 1	0.036	4.2	0.5	2	0.105
742172	< 0.001	0.04	< 30	0.2	< 50	< 40	510	30	0.2	< 50	< 100	40	< 50	10	0.003	< 50	0.111	< 1	0.045	4.2	0.5	1	0.114
742173	< 0.001	0.08	< 30	0.2	< 50	< 40	670	< 20	0.3	< 50	< 100	90	< 50	20	0.004	60	0.154	< 1	0.082	6.3	0.5	1	0.090
742174	0.001	0.05	40	0.3	< 50	< 40	610	< 20	0.2	< 50	< 100	60	< 50	10	0.004	< 50	0.088	< 1	0.055	4.7	0.3	1	0.090
742175	< 0.001	0.04	< 30	0.3	< 50	< 40	540	< 20	0.2	< 50	< 100	30	< 50	< 10	0.002	< 50	0.080	< 1	0.045	3.9	0.4	3	0.100

Results**Activation Laboratories Ltd.****Report: A17-09680**

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
742176	< 0.001	0.04	< 30	0.4	< 50	< 40	520	< 20	0.2	< 50	< 100	40	< 50	< 10	0.004	< 50	0.083	< 1	0.036	4.1	0.3	< 1	0.086
742177	< 0.001	0.06	< 30	0.2	< 50	< 40	580	30	0.3	< 50	< 100	100	< 50	20	0.004	70	0.164	< 1	0.073	7.2	0.8	2	0.066
742178	< 0.001	0.11	< 30	0.2	< 50	< 40	340	< 20	0.4	< 50	< 100	120	< 50	30	0.009	120	0.258	< 1	0.109	10.2	1.2	4	0.071
742179	< 0.001	0.07	< 30	0.3	< 50	< 40	540	30	0.3	< 50	< 100	110	< 50	20	0.006	80	0.173	< 1	0.073	7.0	0.7	< 1	0.054
742180D	0.001	0.07	< 30	0.3	< 50	< 40	530	30	0.3	< 50	< 100	110	< 50	20	0.006	80	0.172	< 1	0.073	6.8	0.5	1	0.054
742181	< 0.001	0.03	< 30	0.6	< 50	< 40	330	< 20	0.2	< 50	< 100	40	< 50	10	0.002	80	0.075	< 1	0.027	3.3	0.3	< 1	0.056
742182	< 0.001	0.04	< 30	< 0.1	< 50	< 40	320	< 20	0.2	< 50	< 100	50	< 50	20	< 0.001	70	0.109	< 1	0.036	3.2	0.4	< 1	0.074
742183	< 0.001	0.05	< 30	< 0.1	< 50	< 40	330	40	0.2	< 50	< 100	70	< 50	20	0.002	60	0.143	< 1	0.055	6.3	0.5	< 1	0.071
742184	< 0.001	0.05	< 30	0.2	< 50	< 40	340	< 20	0.3	< 50	< 100	60	< 50	20	0.003	70	0.133	< 1	0.045	5.5	0.4	< 1	0.055
742185	< 0.001	0.03	< 30	0.3	< 50	< 40	360	30	0.2	< 50	< 100	40	< 50	20	< 0.001	90	0.074	< 1	0.027	3.4	0.3	< 1	0.063
952386	0.004	0.05	< 30	< 0.1	< 50	< 40	230	< 20	0.2	< 50	< 100	70	< 50	20	0.004	60	0.139	< 1	0.055	8.7	0.3	7	0.111

Results

Activation Laboratories Ltd.

Report: A17-09680

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742092	0.11	0.98	0.49	0.99	0.14	0.5	7	8	154	1.90	19.9	3.1	1650	55.0	1.92	< 0.1	5.7	20.6	17.7	4.35	4.1	< 0.1	170
742093	0.21	1.30	0.70	0.95	0.14	0.5	6	6	257	2.21	12.8	3.7	1560	52.2	3.07	< 0.1	3.1	22.3	15.3	5.75	4.4	< 0.1	107
742094	0.18	1.11	0.46	1.22	0.23	0.6	10	6	335	1.72	9.1	2.2	740	46.9	2.63	< 0.1	3.6	18.7	32.3	4.69	0.8	< 0.1	67.0
742095	0.12	1.03	0.59	0.86	0.11	0.3	5	3	141	2.22	12.6	2.6	1110	51.0	2.57	< 0.1	5.1	18.6	6.4	4.69	6.5	< 0.1	55.0
742096	0.39	1.22	0.50	0.78	0.50	0.5	10	8	556	2.79	9.0	2.9	911	66.6	3.17	< 0.1	9.0	20.6	26.4	4.81	8.0	< 0.1	9.00
742097	0.30	1.20	0.52	0.68	1.59	0.8	13	10	518	2.38	8.7	3.1	718	145	3.74	< 0.1	3.4	20.1	78.0	4.62	3.9	< 0.1	7.00
742098	0.31	1.20	0.45	0.55	1.91	0.8	12	7	574	2.13	7.9	3.0	417	54.2	3.57	< 0.1	8.1	18.6	96.8	5.01	6.0	< 0.1	5.00
742099	0.29	1.14	0.49	0.42	1.34	0.7	10	3	467	1.53	5.5	2.6	303	57.9	3.73	< 0.1	1.5	17.1	104	4.36	3.2	< 0.1	14.5
742100D	0.33	1.27	0.53	0.44	1.51	0.8	11	5	524	1.75	6.0	3.0	310	62.2	3.98	< 0.1	1.5	17.9	114	4.87	3.6	< 0.1	15.0
742101	0.75	1.80	0.14	0.23	2.22	3.4	55	8	1150	2.82	5.9	3.4	239	53.6	5.68	0.1	1.4	5.2	203	8.21	10.7	0.5	3.00
742102	0.80	2.09	0.26	0.41	2.09	3.4	44	2	1110	2.65	7.4	3.2	27.5	55.9	6.45	0.1	3.2	8.7	224	10.3	5.3	0.2	3.71
742103	0.75	2.07	0.20	0.28	2.06	3.7	49	3	1130	2.78	7.6	3.1	77.6	55.2	6.64	0.2	2.8	6.1	194	9.75	7.9	0.3	2.53
742104	0.81	1.99	0.23	0.66	2.27	3.6	60	7	1310	2.91	8.4	3.1	62.3	62.3	6.23	< 0.1	3.9	8.5	175	9.77	4.7	0.3	3.50
742105	0.81	1.86	0.18	0.32	2.15	3.1	47	4	1140	2.88	11.5	3.1	65.5	43.5	6.25	0.1	1.1	5.2	183	10.4	3.4	0.3	1.80
742106	1.41	2.21	0.21	0.11	2.78	9.9	126	2	1550	4.72	13.3	3.6	18.4	60.9	8.99	0.2	4.1	5.7	205	13.4	5.6	0.2	1.28
742107	0.86	1.69	0.19	0.98	2.42	3.6	50	11	1340	2.94	6.6	4.0	170	71.1	5.92	< 0.1	7.3	6.9	218	9.71	4.0	0.3	6.00
742108	0.58	1.42	0.53	0.74	1.73	1.6	17	6	780	2.57	10.2	3.5	989	66.3	4.20	< 0.1	8.0	16.9	96.5	10.0	2.3	< 0.1	32.4
742109	0.81	1.92	0.30	0.44	2.80	3.5	39	4	1160	2.57	6.8	3.6	8.87	45.0	6.33	< 0.1	1.6	8.1	237	12.6	0.5	< 0.1	27.4
742110	1.95	2.21	0.48	0.26	4.45	11.2	145	36	954	5.91	24.9	31.3	1130	109	7.68	0.1	48.4	20.7	139	14.2	2.6	< 0.1	14.9
742111	1.01	2.06	0.19	0.24	2.74	6.6	93	9	1290	3.25	9.1	4.2	12.2	53.2	7.09	0.1	3.6	5.8	233	9.51	4.7	0.2	28.0
742112	0.80	1.71	0.13	0.16	1.88	3.7	54	8	1030	2.45	6.2	3.4	7.11	35.1	5.76	< 0.1	1.0	4.1	195	8.61	6.4	0.3	3.00
742113	0.79	1.73	0.32	0.23	2.18	3.5	43	5	1240	2.52	6.5	3.5	49.1	67.6	6.07	< 0.1	0.9	9.4	176	11.4	0.6	< 0.1	1.33
742114	0.79	1.94	0.31	0.25	2.75	3.5	38	4	1140	2.44	6.0	3.5	4.75	45.7	6.27	0.1	0.8	9.0	252	11.2	0.5	< 0.1	6.15
742115	0.90	2.00	0.30	0.19	2.49	3.7	45	< 1	1180	3.03	7.8	2.3	4.01	42.8	6.25	0.1	0.8	8.7	224	12.8	1.4	0.1	10.1
742116	0.69	1.79	0.42	0.28	2.80	3.1	36	2	1060	2.48	5.9	3.2	6.03	38.4	5.36	< 0.1	0.5	12.1	188	12.4	0.4	< 0.1	7.81
742117	0.82	1.85	0.41	0.31	3.26	3.7	55	4	1140	3.26	7.2	2.7	4.56	52.6	5.35	< 0.1	0.5	13.2	165	13.3	0.4	< 0.1	5.00
742118	0.75	1.78	0.46	0.31	4.07	3.4	44	2	1340	2.91	6.5	2.1	7.18	75.3	4.88	< 0.1	3.5	16.2	163	15.1	0.3	< 0.1	20.5
742119	0.66	1.74	0.41	0.30	2.99	3.2	36	< 1	1090	2.42	6.0	2.8	42.8	57.0	5.25	< 0.1	1.4	12.6	209	13.8	0.4	< 0.1	4.29
742120D	0.64	1.64	0.37	0.28	2.84	3.0	34	1	1070	2.40	5.8	2.9	43.1	51.0	4.91	< 0.1	1.6	11.2	193	12.9	0.5	< 0.1	4.17
742121	0.39	1.39	0.50	0.80	2.17	2.1	15	< 1	773	2.73	7.6	2.9	111	58.5	3.71	< 0.1	2.4	16.7	145	8.20	6.7	0.1	6.27
742122	0.48	1.54	0.57	0.93	3.76	2.5	27	4	994	3.71	10.0	3.7	155	122	3.98	< 0.1	2.6	23.8	200	9.50	9.5	0.1	10.0
742123	0.45	1.92	0.91	1.61	3.51	2.5	17	< 1	912	4.64	13.4	3.9	301	162	4.63	< 0.1	4.2	30.5	206	11.9	6.3	< 0.1	32.5
742124	0.31	1.13	0.45	1.30	2.57	1.4	17	5	532	2.21	7.0	3.8	690	87.8	3.21	< 0.1	2.5	17.1	147	5.87	4.1	< 0.1	28.0
742125	0.82	1.84	0.51	2.05	2.95	3.9	55	5	1560	3.48	7.9	3.1	511	138	5.96	< 0.1	2.5	20.7	115	12.8	0.4	< 0.1	2.00
742126	0.82	1.67	0.48	1.66	1.94	3.1	37	4	1460	3.32	7.2	3.6	583	114	5.72	< 0.1	2.9	15.8	100	12.8	0.4	< 0.1	2.60
742127	0.77	1.67	0.51	1.32	2.44	3.6	38	3	1460	3.21	6.5	3.8	410	154	5.85	< 0.1	7.7	16.0	146	12.0	1.4	< 0.1	2.12
742128	0.70	1.43	0.40	1.83	2.12	3.3	31	2	1390	3.05	6.2	3.2	495	116	4.81	< 0.1	4.9	12.5	132	11.7	2.5	< 0.1	2.59
742129	0.33	1.04	0.39	1.70	1.91	0.9	13	7	633	1.93	5.8	3.0	1220	81.9	3.10	< 0.1	2.8	15.0	118	4.45	1.4	< 0.1	7.00
742130	1.42	2.61	0.45	0.33	1.32	8.7	137	24	283	3.29	11.3	14.2	1730	235	7.24	< 0.1	28.4	18.4	38.3	10.2	1.9	< 0.1	49.8
742131	0.31	1.02	0.46	0.84	1.74	0.8	10	5	675	1.72	5.3	3.5	1680	66.6	3.50	< 0.1	0.9	14.5	126	4.97	1.3	< 0.1	14.4
742132	0.48	1.33	0.50	1.85	4.33	2.3	21	2	1110	2.53	6.7	2.8	1750	91.0	3.70	< 0.1	1.1	15.6	318	8.65	4.2	< 0.1	45.5
742133	0.39	1.19	0.43	2.42	2.82	1.6	19	6	875	2.29	5.7	3.3	1470	177	3.37	< 0.1	2.6	17.3	169	6.79	2.6	< 0.1	38.0

Results

Activation Laboratories Ltd.

Report: A17-09680

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742134	0.31	1.16	0.58	2.04	2.16	0.9	9	5	538	2.09	6.6	4.1	3660	423	3.09	< 0.1	1.8	18.3	140	6.21	1.4	< 0.1	100
742135	0.54	1.66	0.57	1.08	2.86	2.6	31	8	919	2.31	6.7	4.6	1130	331	4.89	< 0.1	3.9	25.0	137	7.94	1.5	< 0.1	24.0
742136	0.57	0.99	0.20	0.16	1.49	3.2	40	< 1	886	2.49	5.5	1.8	25.6	151	6.65	< 0.1	2.6	4.9	51.5	9.26	1.4	< 0.1	1.98
742137	0.62	1.03	0.19	0.06	1.48	3.7	43	< 1	938	2.65	5.7	6.9	10.2	134	6.90	0.1	2.5	4.8	77.4	10.2	1.3	< 0.1	2.39
742138	0.66	1.90	0.61	0.24	3.03	3.6	40	< 1	832	2.51	6.0	2.5	22.3	73.8	5.81	< 0.1	1.8	20.9	164	12.9	0.6	< 0.1	8.14
742139	0.69	1.68	0.33	0.15	2.56	3.7	39	4	519	2.29	5.4	3.4	11.4	41.5	5.83	< 0.1	0.7	10.6	209	11.9	1.2	< 0.1	1.07
742140D	0.73	1.70	0.29	0.20	2.96	4.0	50	6	560	2.41	5.4	3.3	11.7	36.9	5.65	< 0.1	1.0	11.6	214	11.4	0.3	< 0.1	1.00
742141	0.42	1.15	0.12	0.10	1.74	1.4	22	10	345	1.24	3.3	3.6	1.84	19.0	5.05	< 0.1	0.5	3.9	193	4.56	1.3	0.2	1.72
742142	0.61	1.40	0.11	0.09	1.55	2.3	28	11	412	1.45	4.3	3.7	2.43	26.6	5.35	< 0.1	0.4	3.7	180	6.67	3.0	0.3	2.45
742143	0.75	1.96	0.16	0.09	2.55	3.2	37	6	506	2.19	6.0	3.5	3.26	35.6	5.92	0.1	0.7	5.2	275	9.48	5.5	0.5	2.29
742144	0.71	1.77	0.27	0.14	2.43	3.9	38	3	534	2.33	5.7	3.0	3.06	43.9	5.89	< 0.1	0.7	8.9	215	11.2	2.0	0.2	0.70
742145	0.69	1.60	0.19	0.12	2.18	3.1	34	8	491	2.07	5.5	3.8	2.19	36.4	5.61	< 0.1	0.6	5.9	202	9.34	3.3	0.3	1.36
742146	0.73	1.84	0.12	0.13	1.85	3.4	38	6	549	2.10	5.7	2.9	2.02	39.9	6.02	0.1	0.5	3.9	248	9.10	4.2	0.4	1.03
742147	0.93	2.04	0.16	0.13	1.91	4.5	48	9	641	2.85	7.3	3.6	1.97	47.6	6.91	0.2	0.9	5.4	228	11.6	6.0	0.5	1.22
742148	0.82	1.86	0.16	0.11	2.28	3.8	37	5	557	2.07	6.3	4.7	2.71	45.5	6.28	0.1	0.7	5.7	263	10.3	4.9	0.4	1.14
742149	0.67	1.64	0.17	0.07	1.74	3.2	38	2	555	2.37	6.5	3.4	10.7	47.4	5.81	0.1	0.7	6.5	249	10.2	4.2	0.4	2.17
742150	1.60	1.81	0.39	0.22	3.59	8.9	118	32	772	4.73	20.1	25.7	920	90.7	6.19	< 0.1	39.4	16.7	110	11.5	1.8	< 0.1	13.4
742151	0.38	0.98	0.24	0.08	1.48	1.6	19	6	396	1.53	4.5	3.0	24.2	41.6	4.28	< 0.1	0.3	8.4	107	6.36	1.2	< 0.1	3.65
742152	0.31	1.09	0.40	0.30	2.20	1.1	16	7	354	2.42	9.2	4.0	40.2	26.0	4.39	< 0.1	0.5	14.2	128	5.54	1.0	< 0.1	61.2
742153	0.32	1.10	0.40	0.21	1.23	1.0	14	9	380	1.60	4.8	4.7	36.9	36.1	4.15	< 0.1	0.5	14.5	76.0	4.40	0.9	0.1	5.75
742154	0.36	1.39	0.60	0.57	1.05	0.9	11	15	559	2.42	6.4	4.7	155	117	4.52	< 0.1	0.4	21.5	58.6	5.29	0.8	< 0.1	11.8
742155	0.37	0.99	0.23	0.13	1.37	1.3	15	8	440	1.39	3.6	3.6	42.1	45.5	4.58	< 0.1	0.6	10.2	91.3	5.21	0.9	< 0.1	7.94
742156	0.42	0.96	0.11	0.05	1.21	1.5	20	10	422	1.37	3.7	3.8	5.71	25.8	5.01	< 0.1	0.8	4.5	125	4.86	1.1	0.1	6.64
742157	0.42	0.98	0.13	0.28	1.43	1.6	21	11	385	1.33	4.2	4.1	7.56	29.8	5.09	< 0.1	1.0	5.1	120	5.37	1.2	0.2	108
742158	0.46	1.02	0.15	0.05	1.32	1.6	22	9	433	1.63	4.7	4.1	9.91	34.9	5.40	< 0.1	0.9	6.1	122	5.50	1.0	0.1	4.64
742159	0.37	1.25	0.20	0.06	2.13	1.6	21	9	382	1.08	3.2	3.4	4.81	19.1	4.51	< 0.1	0.8	9.0	143	4.94	0.9	< 0.1	7.00
742160D	0.33	1.10	0.18	0.05	1.67	1.2	14	6	321	0.90	2.9	3.0	3.06	24.8	4.36	< 0.1	0.5	7.4	125	4.46	0.8	< 0.1	6.91
742161	0.30	1.26	0.10	0.11	1.91	1.2	21	7	344	0.97	2.6	3.2	3.07	15.8	6.53	< 0.1	0.5	3.9	191	4.45	1.3	0.2	6.79
742162	0.41	1.12	0.14	0.08	1.29	1.7	21	10	387	1.31	5.4	4.0	11.5	29.8	5.74	< 0.1	0.9	5.0	121	5.30	1.2	0.1	14.7
742163	0.43	1.02	0.17	0.08	1.48	1.8	22	9	407	1.52	4.6	4.1	47.4	42.3	5.55	< 0.1	0.7	6.7	132	5.76	0.6	< 0.1	12.1
742164	0.44	1.00	0.19	0.06	1.21	2.0	22	10	383	1.36	4.1	3.6	13.1	38.5	6.05	< 0.1	0.7	7.2	91.1	7.11	0.7	< 0.1	22.1
742165	0.40	0.87	0.11	0.04	1.45	1.8	20	9	313	1.02	3.3	3.4	8.88	26.0	5.04	< 0.1	0.7	4.0	105	5.56	1.0	0.1	16.7
742166	0.48	1.27	0.17	0.07	1.91	2.1	27	10	375	1.48	4.5	4.0	22.2	32.0	5.95	< 0.1	1.0	6.9	134	6.15	0.9	0.1	14.5
742167	0.46	1.12	0.14	0.10	1.57	2.0	26	11	313	1.49	3.9	4.6	8.06	26.2	5.70	< 0.1	0.5	5.4	99.3	5.75	1.1	0.1	4.29
742168	0.42	1.19	0.15	0.51	1.38	2.1	25	13	282	1.42	3.8	4.7	10.4	23.6	6.32	< 0.1	1.0	5.2	81.1	5.54	1.4	0.2	6.30
742169	0.31	1.00	0.26	0.83	2.03	1.4	18	11	169	1.27	4.4	4.2	18.7	15.9	4.23	< 0.1	0.7	10.6	125	5.31	1.1	0.1	16.8
742170	0.63	1.44	0.13	0.11	1.01	5.9	73	53	440	2.39	11.4	36.9	25.2	42.0	4.60	< 0.1	4.9	5.4	48.3	8.68	1.2	0.1	3.24
742171	0.47	1.18	0.20	0.08	1.62	2.1	26	12	333	1.66	4.7	4.3	8.97	30.9	5.80	< 0.1	1.0	8.8	131	6.78	1.3	0.2	4.76
742172	0.52	1.22	0.12	0.04	1.27	2.5	30	12	378	1.62	4.2	3.9	4.38	32.0	6.03	< 0.1	0.8	4.7	102	6.70	2.0	0.2	1.78
742173	0.86	1.71	0.12	0.07	1.84	5.1	60	8	597	3.31	8.1	3.7	2.72	45.9	7.88	0.1	1.3	5.7	210	12.0	4.0	0.4	1.26
742174	0.62	1.38	0.11	0.04	1.43	3.0	37	9	444	2.26	5.7	3.9	5.36	34.8	6.89	0.1	0.9	4.8	192	7.82	2.2	0.2	16.7
742175	0.43	1.11	0.19	0.04	1.68	2.1	25	12	480	1.51	3.6	4.0	4.14	30.9	5.57	< 0.1	1.0	7.7	126	5.60	1.4	0.1	5.75

Results**Activation Laboratories Ltd.****Report: A17-09680**

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742176	0.44	1.07	0.17	0.07	1.38	2.1	26	11	515	1.24	3.7	3.6	5.27	36.4	5.65	< 0.1	0.6	6.9	108	6.66	2.3	0.3	22.3
742177	0.90	2.04	0.11	0.19	2.08	5.5	60	7	916	2.58	9.6	3.6	7.10	50.3	8.21	0.2	6.9	2.9	285	8.58	6.0	0.3	3.19
742178	1.34	1.96	0.08	0.04	2.68	10.0	108	8	1340	4.24	12.4	7.4	30.8	91.6	9.88	0.2	8.9	2.4	102	15.0	7.0	0.4	1.79
742179	1.00	1.95	0.08	0.25	1.83	5.4	74	13	807	3.28	9.0	5.1	10.8	63.3	8.31	0.2	8.8	2.3	238	8.89	10.5	0.4	3.50
742180D	1.02	1.96	0.08	0.33	1.83	5.4	75	16	810	3.29	9.2	5.0	10.5	65.6	8.35	0.2	8.4	2.4	237	8.81	8.9	0.3	3.65
742181	0.37	0.76	0.08	0.39	1.89	2.9	30	24	343	0.98	2.2	2.7	8.44	32.1	3.99	0.1	2.3	2.0	135	9.15	7.4	0.4	1.03
742182	0.38	0.75	0.09	0.11	1.83	3.7	32	22	363	0.74	2.0	3.1	8.13	17.0	3.94	< 0.1	0.9	2.3	93.3	10.7	4.0	0.4	2.68
742183	0.74	1.11	0.13	0.08	1.50	5.6	58	14	546	1.92	3.9	2.7	4.95	22.2	5.19	0.1	1.7	3.8	93.0	11.8	5.1	0.3	1.49
742184	0.64	1.02	0.11	0.05	1.65	5.3	39	15	433	1.45	3.5	2.7	4.95	26.9	4.79	0.2	1.1	3.3	115	11.0	5.1	0.3	3.40
742185	0.33	0.89	0.09	0.10	1.53	2.4	21	24	272	0.82	2.1	2.2	8.66	14.3	3.78	0.2	1.6	2.6	128	9.51	8.5	0.4	1.28
952386	0.60	1.45	0.13	0.07	0.90	5.4	57	48	413	2.24	11.5	33.0	24.2	43.9	5.13	< 0.1	4.6	4.7	47.7	8.45	1.8	0.1	2.85

Results

Activation Laboratories Ltd.

Report: A17-09680

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm									
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
742092	1.05	0.07	14.6	0.08	0.52	0.56	10.0	5.3	10.7	16.9	1.4	5.80	1.4	1.8	0.3	1.3	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1
742093	1.50	0.09	0.77	0.13	0.39	0.50	10.0	5.8	10.8	18.5	1.5	6.94	1.2	2.0	0.3	1.2	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1
742094	0.867	0.09	0.66	0.11	0.41	0.76	15.4	5.4	10.4	3.35	1.3	5.85	1.4	1.3	0.4	1.4	0.2	1.2	0.2	0.6	< 0.1	0.5	< 0.1
742095	1.12	0.06	0.59	0.13	0.35	0.42	9.7	4.2	8.35	1.34	1.2	5.38	1.0	1.7	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1
742096	1.12	0.06	0.26	0.10	0.22	0.64	6.7	6.2	12.2	0.43	1.5	6.41	1.5	1.7	0.5	1.3	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742097	1.20	0.08	0.66	0.12	0.31	0.78	7.3	6.3	12.4	1.08	1.5	6.65	1.5	1.3	0.4	1.4	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742098	0.986	0.04	0.93	0.09	0.26	0.82	9.5	6.6	12.6	0.32	1.5	6.42	1.4	1.1	0.4	1.3	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742099	0.422	0.05	0.76	0.15	0.19	0.48	8.1	5.0	9.20	0.41	1.3	5.74	1.0	0.6	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1
742100D	0.416	0.06	0.80	0.19	0.19	0.52	10.2	5.5	10.1	0.47	1.4	6.31	1.1	0.7	0.3	1.1	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1
742101	0.401	0.05	0.73	0.45	0.14	0.32	61.8	11.2	20.1	0.03	2.3	8.66	1.8	0.4	0.5	1.8	0.3	1.7	0.3	1.1	0.2	1.0	0.1
742102	0.379	0.06	0.86	0.46	0.20	0.54	85.9	12.3	20.5	0.02	2.6	10.6	1.8	0.5	0.5	1.8	0.3	1.7	0.4	1.1	0.2	1.0	0.1
742103	0.210	0.03	0.66	0.44	0.18	0.40	85.8	12.6	20.9	0.02	2.6	10.5	1.8	0.5	0.5	1.9	0.3	1.6	0.4	1.0	0.1	1.0	0.1
742104	0.451	0.05	0.82	0.39	0.51	0.51	51.8	12.9	22.6	0.05	2.5	9.76	2.0	0.4	0.5	2.0	0.3	1.9	0.4	1.2	0.2	1.2	0.2
742105	0.338	0.04	0.75	0.49	0.22	0.28	33.9	11.5	19.5	0.02	2.4	9.90	1.7	0.7	0.4	1.7	0.3	1.7	0.4	1.1	0.2	1.0	0.1
742106	0.842	0.06	0.75	0.58	0.05	0.35	160	12.7	22.5	0.04	3.0	13.3	2.6	0.6	0.7	2.6	0.4	2.3	0.6	1.4	0.2	1.3	0.2
742107	0.556	0.08	0.51	0.37	0.63	0.35	16.1	10.8	20.0	0.55	2.3	9.52	2.0	0.5	0.5	2.1	0.3	1.9	0.4	1.2	0.2	1.1	0.2
742108	1.03	0.12	0.55	0.15	0.23	0.64	9.2	8.8	16.2	0.30	2.2	9.54	1.8	1.1	0.4	1.8	0.3	1.7	0.4	1.0	0.1	0.9	0.1
742109	0.399	0.08	0.76	0.44	0.15	0.53	30.3	12.2	21.1	0.04	2.8	12.0	2.2	0.6	0.6	2.3	0.3	2.0	0.5	1.2	0.2	1.1	0.2
742110	1.06	0.07	3.03	6.30	0.25	1.50	27.4	9.3	17.1	1.42	2.5	11.9	2.5	4.1	0.8	2.8	0.4	2.4	0.6	1.3	0.2	1.1	0.2
742111	0.317	0.05	0.52	0.55	0.10	0.33	104	11.0	20.4	< 0.01	2.4	9.95	2.1	0.3	0.6	2.1	0.3	2.0	0.4	1.2	0.2	1.1	0.1
742112	0.284	0.03	0.49	0.37	0.04	0.17	113	9.7	18.0	0.02	2.0	8.26	1.8	0.2	0.5	1.7	0.2	1.6	0.3	1.0	0.2	1.0	0.1
742113	0.222	0.04	0.50	0.42	0.09	0.78	53.3	12.3	21.2	0.06	2.8	11.7	2.2	0.4	0.6	2.2	0.3	1.9	0.4	1.1	0.2	1.1	0.2
742114	0.147	0.08	0.71	0.49	0.07	0.77	39.3	11.6	20.0	0.03	2.6	11.2	2.0	0.5	0.6	2.1	0.3	2.0	0.4	1.2	0.2	1.1	0.2
742115	0.136	0.08	0.60	0.57	0.05	0.73	72.5	11.1	19.7	0.02	2.7	11.6	2.2	0.6	0.5	2.3	0.3	2.1	0.5	1.3	0.2	1.2	0.2
742116	0.253	0.08	0.62	0.30	0.07	0.83	33.6	13.8	23.3	0.02	3.0	13.1	2.3	0.4	0.6	2.3	0.3	2.1	0.5	1.2	0.2	1.1	0.2
742117	0.430	0.07	0.58	0.14	0.03	0.91	23.4	13.6	25.3	0.11	3.0	11.9	2.7	0.3	0.7	2.6	0.4	2.5	0.5	1.7	0.2	1.5	0.2
742118	0.273	0.06	0.34	0.17	0.05	1.43	22.6	13.8	26.6	0.13	3.2	13.3	2.9	0.4	0.8	3.2	0.5	3.1	0.6	1.8	0.3	1.6	0.2
742119	0.305	0.07	0.75	0.40	0.07	1.32	20.7	15.2	25.9	0.15	3.3	14.1	2.6	0.6	0.7	2.7	0.4	2.3	0.5	1.4	0.2	1.3	0.2
742120D	0.212	0.06	0.62	0.42	0.09	1.21	22.3	14.2	24.0	0.13	3.1	13.5	2.4	0.5	0.7	2.5	0.4	2.3	0.5	1.3	0.2	1.2	0.2
742121	0.215	0.03	0.50	0.21	0.40	0.62	7.6	6.3	11.0	0.30	1.5	6.92	1.3	1.0	0.4	1.4	0.2	1.3	0.3	0.8	0.1	0.8	0.1
742122	0.471	0.04	0.48	0.13	0.78	0.86	9.1	8.1	15.0	0.76	1.9	7.88	1.8	1.0	0.6	1.9	0.3	1.9	0.3	1.1	0.2	1.1	0.2
742123	0.599	0.04	0.74	0.23	1.07	1.34	8.1	9.1	16.6	1.53	2.3	10.2	1.9	1.5	0.6	2.0	0.3	1.8	0.4	1.1	0.2	1.1	0.2
742124	2.18	0.05	0.43	0.16	2.14	1.12	9.4	7.0	13.3	0.63	1.7	6.95	1.6	0.7	0.5	1.5	0.2	1.4	0.2	0.8	0.1	0.6	< 0.1
742125	1.33	0.10	0.38	0.20	0.98	1.67	10.2	15.8	29.5	0.42	3.5	14.2	3.1	0.9	0.9	3.0	0.4	2.6	0.5	1.5	0.2	1.4	0.2
742126	1.11	0.09	0.37	0.25	0.85	1.34	9.9	14.6	25.6	0.13	3.4	14.1	2.5	1.1	0.7	2.4	0.3	2.1	0.5	1.3	0.2	1.2	0.2
742127	1.34	0.07	0.62	0.28	0.59	1.25	11.6	13.6	24.0	0.71	3.1	13.0	2.3	1.0	0.6	2.2	0.3	1.9	0.4	1.2	0.2	1.1	0.2
742128	1.67	0.12	0.35	0.26	0.88	1.38	10.6	11.9	20.9	0.39	2.7	11.7	2.1	1.0	0.6	2.1	0.3	1.8	0.4	1.1	0.2	1.1	0.2
742129	1.58	0.10	0.28	0.15	0.79	0.96	6.7	6.8	13.4	0.45	1.7	7.13	1.5	0.8	0.5	1.4	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1
742130	0.604	0.06	1.05	0.89	0.08	0.94	49.2	7.2	14.1	0.50	2.1	9.40	1.9	3.4	0.5	2.0	0.3	1.8	0.4	0.9	0.1	0.8	0.1
742131	2.11	0.11	0.43	0.24	0.43	0.82	10.3	5.9	10.9	0.38	1.6	7.05	1.3	0.9	0.4	1.1	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1
742132	1.94	0.17	0.38	0.35	1.04	0.93	6.5	9.6	16.6	0.42	2.2	9.60	1.8	1.3	0.5	1.7	0.2	1.3	0.3	0.8	0.1	0.7	0.1
742133	2.13	0.16	0.34	0.23	1.42	1.12	9.2	7.9	15.4	1.30	1.9	7.76	1.7	1.4	0.5	1.6	0.2	1.4	0.2	0.7	0.1	0.7	0.1

Results

Activation Laboratories Ltd.

Report: A17-09680

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742134	3.60	0.16	0.28	0.39	1.37	1.07	7.2	5.6	10.5	4.30	1.5	6.65	1.3	2.2	0.4	1.2	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742135	1.93	0.08	1.01	0.39	0.65	2.04	13.0	10.8	20.3	2.30	2.4	10.0	2.2	1.3	0.7	2.1	0.3	1.8	0.3	1.0	0.1	0.8	0.1
742136	0.328	0.02	0.57	0.24	0.05	0.15	75.8	17.3	29.5	1.48	3.8	15.8	2.5	0.6	0.6	2.1	0.3	1.6	0.3	0.8	0.1	0.8	0.1
742137	0.396	0.03	0.61	0.27	0.03	0.19	142	19.1	32.1	0.25	4.1	17.1	2.8	0.5	0.7	2.5	0.3	1.8	0.4	0.9	0.1	0.9	0.1
742138	0.213	0.05	0.58	0.72	0.07	2.01	50.4	14.6	24.7	0.15	3.2	13.3	2.4	0.5	0.6	2.4	0.3	2.1	0.5	1.3	0.2	1.2	0.2
742139	0.127	0.05	0.54	0.81	0.04	1.18	225	13.8	23.2	0.07	3.0	12.6	2.2	0.2	0.6	2.2	0.3	2.0	0.5	1.2	0.2	1.2	0.2
742140D	0.454	0.05	0.53	0.51	0.03	1.29	89.0	14.2	25.8	0.06	3.0	11.6	2.5	0.5	0.7	2.4	0.4	2.3	0.4	1.5	0.2	1.4	0.2
742141	0.072	0.04	0.63	0.54	< 0.02	0.28	110	5.4	9.02	0.05	1.2	5.35	1.0	< 0.1	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1
742142	0.124	0.04	0.63	0.55	< 0.02	0.20	101	7.8	13.4	0.05	1.7	7.33	1.3	0.3	0.4	1.2	0.2	1.1	0.3	0.7	0.1	0.6	< 0.1
742143	0.177	0.03	0.83	0.64	0.03	0.36	21.2	10.9	18.4	0.01	2.4	10.1	1.8	0.3	0.5	1.8	0.3	1.6	0.4	1.0	0.1	1.0	0.1
742144	0.180	0.04	0.79	0.80	0.03	0.88	169	13.3	22.0	0.03	2.8	11.7	2.1	0.3	0.5	2.0	0.3	1.8	0.4	1.1	0.2	1.1	0.2
742145	0.324	0.05	0.79	0.71	0.02	0.44	108	11.1	18.6	0.05	2.4	10.2	1.8	0.2	0.5	1.8	0.2	1.5	0.3	0.9	0.1	0.9	0.1
742146	0.168	0.05	0.67	0.70	0.03	0.21	380	11.6	19.4	0.05	2.5	10.1	1.8	0.3	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.9	0.1
742147	0.174	0.05	0.78	0.75	< 0.02	0.31	69.2	14.2	23.9	0.03	3.0	13.0	2.2	0.4	0.6	2.2	0.3	1.9	0.4	1.2	0.2	1.1	0.2
742148	0.185	0.04	0.93	0.58	0.02	0.36	51.8	12.4	20.6	< 0.01	2.6	11.1	1.9	0.2	0.5	1.9	0.3	1.7	0.4	1.0	0.1	1.1	0.1
742149	0.150	0.02	1.84	0.76	0.06	0.35	35.1	10.6	18.1	0.02	2.3	9.89	1.8	0.2	0.4	1.8	0.3	1.6	0.4	1.0	0.1	1.0	0.1
742150	1.09	0.06	2.22	5.56	0.19	1.16	17.4	7.6	14.0	1.12	2.1	9.98	2.1	3.0	0.6	2.3	0.3	2.0	0.4	1.1	0.1	1.0	0.1
742151	0.573	< 0.02	1.13	0.24	0.06	0.63	48.8	7.0	12.4	0.03	1.7	7.14	1.3	0.2	0.4	1.2	0.2	1.0	0.2	0.6	< 0.1	0.6	< 0.1
742152	0.404	0.03	0.74	0.18	0.24	0.55	11.1	5.5	9.71	< 0.01	1.4	5.98	1.1	0.4	0.3	1.1	0.1	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742153	0.219	0.02	0.54	0.13	0.20	0.40	14.8	4.3	7.76	0.20	1.0	4.41	0.8	0.2	0.2	0.8	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1
742154	0.860	0.05	0.69	0.11	0.71	0.72	17.8	5.8	10.4	1.16	1.4	5.93	1.0	0.4	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.5	< 0.1
742155	0.268	0.03	1.05	0.27	0.15	0.40	27.3	7.1	12.2	0.45	1.6	7.00	1.3	0.1	0.4	1.1	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742156	0.133	< 0.02	0.61	0.41	0.04	0.21	44.5	6.8	11.2	< 0.01	1.5	6.21	1.1	< 0.1	0.3	1.0	0.1	0.8	0.2	0.5	< 0.1	0.5	< 0.1
742157	0.184	< 0.02	0.80	0.34	0.07	0.23	62.0	4.9	8.25	< 0.01	1.1	5.31	1.0	0.1	0.4	1.1	0.1	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742158	0.129	< 0.02	0.84	0.33	0.07	0.25	58.7	6.5	10.8	0.01	1.4	6.27	1.2	0.2	0.4	1.2	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742159	0.322	< 0.02	0.89	0.18	0.04	0.66	88.9	8.0	13.5	0.03	1.5	6.16	1.3	< 0.1	0.4	1.3	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1
742160D	0.076	< 0.02	0.48	0.22	0.04	0.48	74.7	6.6	10.4	0.01	1.3	5.58	1.0	0.1	0.3	1.0	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1
742161	0.114	0.02	0.67	0.50	0.04	0.13	70.4	6.0	9.91	0.05	1.3	5.31	0.9	0.2	0.3	0.9	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1
742162	0.133	< 0.02	0.97	0.40	0.05	0.16	61.9	6.4	10.7	0.04	1.4	6.28	1.2	0.1	0.3	1.1	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742163	0.118	0.02	3.34	0.29	0.07	0.21	53.6	8.3	13.6	0.08	1.8	7.40	1.3	< 0.1	0.4	1.2	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742164	0.122	< 0.02	0.84	0.17	0.05	0.19	90.2	7.9	13.4	0.04	1.9	8.27	1.6	0.4	0.4	1.5	0.2	1.2	0.3	0.7	0.1	0.6	< 0.1
742165	0.179	< 0.02	1.14	0.27	0.05	0.11	55.5	6.0	10.3	0.03	1.4	6.32	1.2	< 0.1	0.3	1.2	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742166	0.271	< 0.02	0.75	0.20	0.06	0.37	17.5	6.0	10.8	0.05	1.5	6.56	1.2	0.3	0.4	1.2	0.2	1.0	0.2	0.6	< 0.1	0.6	< 0.1
742167	0.132	< 0.02	0.44	0.20	0.07	0.27	67.3	7.5	12.3	0.06	1.6	6.92	1.3	< 0.1	0.4	1.2	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742168	0.217	< 0.02	0.64	0.28	0.09	0.15	76.7	6.6	10.8	0.09	1.4	6.13	1.2	< 0.1	0.3	1.1	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742169	0.177	< 0.02	0.88	0.24	0.10	0.30	17.9	4.6	8.18	0.05	1.1	5.12	1.0	0.3	0.2	1.0	0.1	0.8	0.2	0.5	< 0.1	0.5	< 0.1
742170	0.368	0.02	0.70	0.64	0.05	0.43	145	7.5	14.9	0.13	2.0	8.64	2.1	0.4	0.5	2.1	0.3	2.0	0.3	1.1	0.1	0.8	0.1
742171	0.815	< 0.02	1.45	0.24	0.05	0.30	33.2	8.9	14.8	0.07	1.9	8.53	1.6	0.2	0.4	1.4	0.2	1.2	0.3	0.6	< 0.1	0.7	< 0.1
742172	0.213	< 0.02	0.84	0.35	0.03	0.19	40.5	8.5	13.9	0.06	1.8	7.61	1.4	0.1	0.4	1.3	0.2	1.1	0.3	0.6	< 0.1	0.7	0.1
742173	0.158	< 0.02	1.19	0.65	0.04	0.22	47.0	16.0	26.5	0.04	3.4	14.1	2.5	0.4	0.6	2.3	0.3	2.0	0.5	1.2	0.2	1.2	0.2
742174	0.087	< 0.02	0.79	0.46	< 0.02	0.19	45.2	9.8	15.9	0.06	2.0	8.93	1.6	0.1	0.5	1.6	0.2	1.3	0.3	0.8	0.1	0.7	0.1
742175	0.171	< 0.02	0.84	0.30	< 0.02	0.51	137	7.7	12.0	0.13	1.5	6.57	1.2	0.2	0.4	1.2	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1

Results**Activation Laboratories Ltd.****Report: A17-09680**

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742176	0.146	< 0.02	0.79	0.47	0.03	0.35	62.9	8.2	13.5	0.03	1.8	7.62	1.4	< 0.1	0.4	1.3	0.2	1.1	0.2	0.6	< 0.1	0.6	< 0.1
742177	0.133	0.03	0.85	1.41	0.04	0.08	107	9.4	16.7	0.05	2.2	9.38	1.7	0.4	0.4	1.7	0.2	1.5	0.3	0.9	0.1	0.9	0.1
742178	0.218	0.04	1.31	0.46	< 0.02	0.13	126	17.3	31.3	0.03	4.3	19.1	3.4	0.5	0.8	3.2	0.4	2.7	0.6	1.6	0.2	1.5	0.2
742179	0.213	0.04	0.82	1.07	0.03	0.15	98.2	10.4	18.1	0.03	2.3	9.89	1.8	0.4	0.4	1.7	0.3	1.5	0.4	0.9	0.1	0.9	0.1
742180D	0.283	0.04	0.79	1.01	0.06	0.16	96.7	10.1	17.8	0.02	2.3	9.90	1.7	0.3	0.4	1.6	0.2	1.5	0.4	0.9	0.1	0.9	0.1
742181	0.487	< 0.02	1.66	0.58	0.04	0.07	53.5	14.2	21.6	0.68	2.5	9.42	1.5	< 0.1	0.3	1.4	0.2	1.3	0.3	0.9	0.1	1.1	0.2
742182	0.227	0.03	1.49	0.37	0.04	0.10	140	12.9	21.8	0.08	2.7	10.7	1.8	0.2	0.4	1.8	0.3	1.7	0.4	1.1	0.2	1.2	0.2
742183	0.121	0.03	1.09	0.36	0.03	0.17	110	15.8	26.7	0.04	3.3	13.1	2.2	0.4	0.5	2.2	0.3	1.9	0.5	1.3	0.2	1.3	0.2
742184	0.243	< 0.02	1.16	0.29	0.02	0.15	135	15.3	26.2	0.05	3.1	12.2	2.0	0.3	0.4	1.9	0.3	1.8	0.4	1.2	0.2	1.3	0.2
742185	0.158	< 0.02	1.53	0.40	0.04	0.13	110	13.9	23.4	0.04	2.7	10.1	1.6	0.3	0.3	1.5	0.2	1.4	0.3	0.9	0.2	1.2	0.2
952386	0.176	0.02	0.42	0.70	0.05	0.35	128	7.1	13.2	0.13	2.0	9.26	1.8	0.6	0.4	1.9	0.3	1.5	0.4	0.8	0.1	0.7	< 0.1

Results

Activation Laboratories Ltd.

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742092	< 0.1	< 0.05	0.5	0.184	< 0.5	0.17	16.7	1.3	0.5	10
742093	0.1	< 0.05	0.7	0.133	29.0	0.22	4.73	1.3	0.5	10
742094	< 0.1	< 0.05	0.5	0.078	2.4	0.20	5.95	1.7	0.6	< 10
742095	0.2	< 0.05	0.5	0.047	29.4	0.17	3.27	1.0	0.5	< 10
742096	0.2	< 0.05	0.1	0.002	6.0	0.20	6.06	1.4	0.8	< 10
742097	0.1	< 0.05	< 0.1	0.005	2.8	0.21	12.0	1.4	0.6	10
742098	0.1	< 0.05	0.1	0.001	16.4	0.18	6.85	1.2	0.5	< 10
742099	< 0.1	< 0.05	0.2	0.003	7.6	0.14	5.33	1.0	0.4	< 10
742100D	< 0.1	< 0.05	0.3	0.002	< 0.5	0.16	5.16	1.1	0.4	< 10
742101	0.4	< 0.05	0.2	< 0.001	< 0.5	0.08	2.61	4.3	1.7	< 10
742102	0.1	< 0.05	0.3	< 0.001	7.4	0.04	5.27	4.5	1.6	10
742103	0.3	< 0.05	0.2	< 0.001	< 0.5	0.04	4.74	5.1	1.6	< 10
742104	< 0.1	< 0.05	0.2	< 0.001	9.6	0.07	7.39	5.4	2.0	< 10
742105	< 0.1	< 0.05	0.3	0.001	4.0	0.03	5.15	4.4	1.4	< 10
742106	< 0.1	< 0.05	0.2	< 0.001	4.3	0.03	3.99	3.5	1.2	< 10
742107	0.1	< 0.05	0.2	< 0.001	< 0.5	0.06	8.94	3.9	1.8	< 10
742108	< 0.1	< 0.05	< 0.1	0.011	14.6	0.12	11.7	2.4	0.7	< 10
742109	< 0.1	< 0.05	0.2	0.010	0.7	0.06	13.3	3.4	1.3	< 10
742110	< 0.1	< 0.05	0.2	0.017	84.6	0.23	14.7	1.2	0.6	180
742111	0.1	< 0.05	0.2	0.010	1.9	0.05	4.74	3.8	1.6	< 10
742112	0.2	< 0.05	0.3	< 0.001	< 0.5	0.04	3.21	4.1	1.7	< 10
742113	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.06	6.10	3.8	1.6	< 10
742114	< 0.1	< 0.05	0.3	0.001	< 0.5	0.05	5.61	3.9	1.4	< 10
742115	< 0.1	< 0.05	0.3	0.003	2.8	0.05	5.16	3.0	1.1	< 10
742116	< 0.1	< 0.05	0.2	0.001	< 0.5	0.08	7.82	4.0	1.4	< 10
742117	< 0.1	< 0.05	< 0.1	0.002	< 0.5	0.08	7.44	4.3	1.6	< 10
742118	< 0.1	< 0.05	< 0.1	0.007	< 0.5	0.13	10.3	3.1	1.3	< 10
742119	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.09	18.2	3.9	1.5	< 10
742120D	< 0.1	< 0.05	0.2	0.002	< 0.5	0.08	17.2	3.7	1.4	< 10
742121	0.2	< 0.05	0.5	0.026	36.7	0.16	10.5	2.3	0.9	< 10
742122	0.2	< 0.05	0.4	0.040	16.8	0.22	11.9	3.4	1.6	10
742123	0.1	< 0.05	0.3	0.067	89.6	0.29	16.5	2.8	1.1	< 10
742124	0.1	< 0.05	0.1	0.030	54.5	0.19	25.3	1.9	0.6	< 10
742125	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.18	13.8	4.2	1.7	< 10
742126	< 0.1	< 0.05	0.1	< 0.001	4.1	0.12	13.2	3.9	1.4	10
742127	< 0.1	< 0.05	0.4	< 0.001	10.5	0.12	22.3	4.1	1.4	< 10
742128	< 0.1	< 0.05	0.1	< 0.001	4.0	0.09	16.9	3.4	1.2	< 10
742129	< 0.1	< 0.05	0.1	0.002	< 0.5	0.14	25.5	1.3	0.3	< 10
742130	< 0.1	< 0.05	0.4	0.140	15.5	0.11	39.7	2.2	0.5	10
742131	< 0.1	< 0.05	0.3	0.010	8.1	0.12	27.3	1.0	0.2	< 10
742132	< 0.1	< 0.05	0.1	0.040	< 0.5	0.11	18.2	1.7	0.6	< 10
742133	< 0.1	< 0.05	0.3	0.025	< 0.5	0.15	48.4	1.8	0.8	< 10

Activation Laboratories Ltd.

Results

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742134	< 0.1	< 0.05	0.1	0.039	3.8	0.14	101	1.0	0.2	20
742135	< 0.1	< 0.05	0.1	0.012	< 0.5	0.20	75.2	2.3	0.9	10
742136	< 0.1	< 0.05	0.1	0.001	< 0.5	0.03	74.8	3.1	1.2	< 10
742137	< 0.1	< 0.05	0.2	0.002	5.9	0.02	23.8	3.7	1.4	< 10
742138	< 0.1	< 0.05	0.2	0.003	< 0.5	0.12	18.2	4.0	1.5	< 10
742139	< 0.1	< 0.05	0.2	< 0.001	2.6	0.07	6.71	4.7	1.6	< 10
742140D	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.10	6.85	5.2	2.1	< 10
742141	< 0.1	< 0.05	0.4	< 0.001	2.7	< 0.02	2.60	1.5	0.7	< 10
742142	0.1	< 0.05	0.5	< 0.001	< 0.5	< 0.02	3.65	2.6	1.0	< 10
742143	0.2	< 0.05	0.5	< 0.001	2.8	0.02	8.56	3.8	1.4	< 10
742144	< 0.1	< 0.05	0.4	< 0.001	< 0.5	0.05	5.99	4.4	1.6	< 10
742145	0.1	< 0.05	0.4	< 0.001	< 0.5	0.03	5.34	3.4	1.3	< 10
742146	0.1	< 0.05	0.4	< 0.001	2.7	< 0.02	4.30	3.9	1.4	< 10
742147	0.2	< 0.05	0.6	< 0.001	< 0.5	0.02	3.52	5.3	1.8	< 10
742148	0.2	< 0.05	0.5	0.001	0.9	< 0.02	3.40	4.5	1.6	< 10
742149	0.1	< 0.05	0.5	< 0.001	< 0.5	0.03	5.09	3.6	1.2	< 10
742150	< 0.1	< 0.05	0.2	0.022	48.5	0.17	12.9	1.0	0.5	110
742151	< 0.1	< 0.05	0.3	0.002	< 0.5	0.05	4.88	1.8	0.8	< 10
742152	< 0.1	< 0.05	0.7	0.084	< 0.5	0.08	5.88	1.7	0.9	< 10
742153	< 0.1	< 0.05	0.4	< 0.001	< 0.5	0.08	4.19	1.7	0.9	< 10
742154	< 0.1	< 0.05	0.2	0.001	8.6	0.12	9.45	1.7	0.6	< 10
742155	< 0.1	< 0.05	0.3	0.002	2.9	0.07	23.6	1.8	0.8	< 10
742156	< 0.1	< 0.05	0.4	< 0.001	< 0.5	0.03	2.45	1.9	0.7	< 10
742157	< 0.1	< 0.05	0.6	0.007	0.9	0.03	9.58	1.9	1.2	< 10
742158	< 0.1	< 0.05	0.3	0.001	1.1	0.03	4.85	1.8	0.9	< 10
742159	< 0.1	< 0.05	0.2	0.001	< 0.5	0.08	3.64	2.0	1.1	10
742160D	< 0.1	< 0.05	0.2	0.002	< 0.5	0.03	4.17	1.4	0.8	< 10
742161	< 0.1	< 0.05	0.5	< 0.001	< 0.5	< 0.02	4.87	1.4	0.8	< 10
742162	< 0.1	< 0.05	0.3	0.006	< 0.5	< 0.02	6.73	1.8	0.9	< 10
742163	< 0.1	< 0.05	0.2	0.004	< 0.5	0.03	8.42	1.8	0.9	< 10
742164	< 0.1	< 0.05	< 0.1	0.003	< 0.5	0.04	11.6	1.9	0.8	< 10
742165	< 0.1	< 0.05	0.2	0.016	< 0.5	< 0.02	7.48	1.6	0.8	< 10
742166	< 0.1	< 0.05	0.4	0.004	2.3	0.04	5.52	1.6	1.8	< 10
742167	< 0.1	< 0.05	0.3	0.001	< 0.5	0.02	4.98	2.1	1.0	< 10
742168	< 0.1	< 0.05	0.4	0.002	< 0.5	0.02	5.53	2.1	1.2	10
742169	< 0.1	< 0.05	0.7	0.003	< 0.5	0.04	4.14	1.7	0.8	< 10
742170	< 0.1	< 0.05	40.4	< 0.001	< 0.5	0.07	4.22	1.5	0.4	20
742171	< 0.1	< 0.05	0.3	0.003	2.3	0.03	9.50	2.2	1.0	< 10
742172	< 0.1	< 0.05	0.5	0.001	10.6	< 0.02	7.75	2.2	1.0	< 10
742173	0.1	< 0.05	0.7	0.001	< 0.5	0.02	7.15	5.2	2.2	< 10
742174	< 0.1	< 0.05	0.3	0.001	0.8	< 0.02	12.4	2.9	1.3	< 10
742175	< 0.1	< 0.05	0.5	< 0.001	0.8	0.03	7.85	2.0	1.2	< 10

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742176	< 0.1	< 0.05	0.5	0.003	2.6	0.04	6.29	2.1	1.1	< 10
742177	0.2	< 0.05	0.6	< 0.001	< 0.5	< 0.02	14.4	4.0	1.3	< 10
742178	< 0.1	< 0.05	0.6	< 0.001	2.7	< 0.02	11.6	5.0	2.1	< 10
742179	0.3	< 0.05	0.9	0.001	4.4	< 0.02	7.82	4.6	1.4	< 10
742180D	0.2	< 0.05	0.8	0.001	9.0	< 0.02	8.16	4.6	1.3	< 10
742181	0.3	< 0.05	0.2	< 0.001	< 0.5	< 0.02	10.8	11.5	4.2	< 10
742182	0.1	< 0.05	0.1	< 0.001	2.3	< 0.02	5.25	9.9	3.7	< 10
742183	0.2	< 0.05	0.3	< 0.001	< 0.5	< 0.02	3.34	9.6	3.7	< 10
742184	0.2	< 0.05	0.2	0.001	5.7	< 0.02	3.03	8.3	3.3	< 10
742185	0.4	< 0.05	0.1	< 0.001	9.0	< 0.02	3.05	10.9	3.5	< 10
952386	< 0.1	< 0.05	32.4	< 0.001	2.6	0.04	4.33	1.9	0.3	50

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																		
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
PK2 Meas	4520	5590	4540																				
PK2 Cert	4790	5918.0 00	4749.0 00																				
PK2 Meas	4880	6090	4920																				
PK2 Cert	4790	5918.0 00	4749.0 00																				
PK2 Meas	4870	6220	4850																				
PK2 Cert	4790	5918.0 00	4749.0 00																				
CDN-PGMS-25 Meas	502	1910	420																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	474	1900	387																				
CDN-PGMS-25 Cert	483	1830	400																				
SDC-1 1F2 Assay (%) Meas					< 30	630	< 10				20	60	0.003						40		0.091		
SDC-1 1F2 Assay (%) Cert					0.220	630	3.00				18	64.0	0.0030						34.0		0.088		
SBC-1 1F2-assay Kamloops (%) Meas					< 30	740	< 10	< 20		< 3	20	110	0.003				20		150		0.115	< 0.001	
SBC-1 1F2-assay Kamloops (%) Cert					25.7	788	3.20	0.700		0.400	22.7	109	0.0031				27.0		163		0.116	0.00024	
DNC-1a 1F2-assay Kamloops (%) Meas						100					60	190	0.010						< 10		0.116		
DNC-1a 1F2-assay Kamloops (%) Cert						118					57.0	270	0.01						5.20		0.116		
GXR-6 1F2-assay Kamloops (%) Meas				< 3.0	16.1	290	1500	< 10	< 20	0.2	< 3	10	80	0.007	5.5	30	< 10	1.6	40	0.6	0.105	< 0.001	0.1
GXR-6 1F2-assay Kamloops (%) Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
GXR-4 1F2-assay Kamloops (%) Meas				< 3.0	7.2	100	1490	< 10	< 20	1.0	< 3	20	60	0.642	3.0	10	< 10	4.4	10	1.7	0.015	0.032	0.5	
GXR-4 1F2-assay Kamloops (%) Cert				4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564	
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas				< 3.0		< 30						80	11700	0.232									0.001	
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert				0.860		57.0						75.0	8650	0.233									0.0009	
OREAS 14P 1F2-assay Kamloops (%) Meas												740		0.962	35.9									
OREAS 14P 1F2-assay Kamloops (%) Cert												750		0.997	37.2									
GBW 07238 1F2-assay Kamloops (%) Meas						< 30								0.010		10							1.09	1.47
GBW 07238 1F2-assay Kamloops (%) Cert						1.60								0.00936		25.0							1.08	1.51
GBW 07239 1F2-assay Kamloops (%) Meas						< 30			< 20			10		0.005		10							1.20	0.111
GBW 07239 1F2-assay Kamloops (%) Cert						1.0			1.0			13.5		0.00486		23.1							1.15	0.110
OREAS 923 (AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
SdAR-M2 (U.S.G.S.) Meas							990	< 10	< 20		5	20	60	0.024		10	< 10		20				0.001	
SdAR-M2 (U.S.G.S.) Cert							990	6.6	1.05		5.1	12.4	49.6	0.0236		17.6	1.44		20				0.001	
CCU-1e Meas				222.1	0.1	840				0.1	77	330			31.4		10					0.7	0.014	
CCU-1e Cert				205	0.139	1010				0.129	74.2	301			30.7		10.4					0.706	0.00960	

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
742096 Orig	21	< 5	< 5																					
742096 Dup	23	< 5	< 5																					
742104 Orig				< 3.0	8.6	< 30	1500	< 10	< 20	3.3	< 3	< 10	20	0.005	3.6	< 10	< 10	3.3	< 10	0.9	0.159	< 0.001	2.2	
742104 Dup				< 3.0	8.8	< 30	1530	< 10	< 20	3.4	< 3	< 10	20	0.005	3.6	10	< 10	3.4	< 10	0.9	0.160	< 0.001	2.2	
742108 Orig	15	< 5	< 5																					
742108 Dup	13	< 5	< 5																					
742118 Orig				< 3.0	8.5	< 30	1270	< 10	< 20	4.5	< 3	< 10	10	< 0.001	3.8	20	< 10	2.7	10	1.0	0.134	0.003	1.8	
742118 Dup				< 3.0	8.8	< 30	1320	< 10	< 20	4.7	< 3	< 10	20	0.001	3.9	20	< 10	2.8	10	1.0	0.138	0.002	1.8	
742121 Orig	67	< 5	< 5																					
742121 Dup	67	< 5	< 5																					
742131 Orig																								
742131 Dup																								
742135 Orig	5	< 5	< 5																					
742135 Dup	5	< 5	< 5																					
742141 Orig	< 2	< 5	< 5	< 3.0	8.7	< 30	290	< 10	< 20	3.4	< 3	< 10	30	< 0.001	2.0	20	< 10	0.8	< 10	0.5	0.054	< 0.001	3.9	
742141 Split PREP DUP	< 2	< 5	< 5	< 3.0	8.1	< 30	280	< 10	< 20	3.3	< 3	< 10	30	< 0.001	1.9	10	< 10	0.8	< 10	0.4	0.052	< 0.001	3.8	
742142 Orig	< 2	< 5	< 5	< 3.0	8.8	< 30	430	< 10	< 20	3.7	< 3	< 10	30	< 0.001	2.4	20	< 10	0.8	< 10	0.7	0.067	< 0.001	3.3	
742142 Dup	< 2	< 5	< 5	< 3.0	8.6	< 30	410	< 10	< 20	3.6	< 3	< 10	30	< 0.001	2.3	10	< 10	0.8	< 10	0.7	0.065	< 0.001	3.2	
742144 Orig																								
742144 Dup																								
742155 Orig	17	< 5	< 5																					
742155 Dup	< 2	< 5	< 5																					
742156 Orig				< 3.0	8.4	< 30	400	< 10	< 20	1.9	< 3	< 10	30	< 0.001	1.7	10	< 10	0.9	< 10	0.4	0.048	< 0.001	4.2	
742156 Dup				< 3.0	8.3	< 30	400	< 10	< 20	1.9	< 3	< 10	20	< 0.001	1.7	10	< 10	0.8	< 10	0.4	0.050	< 0.001	4.2	
742167 Orig																								
742167 Dup																								
742169 Orig	< 2	< 5	< 5																					
742169 Dup	2	< 5	< 5																					
742177 Orig	2	< 5	< 5																					
742177 Dup	< 2	< 5	< 5																					
742181 Orig				< 3.0	7.8	< 30	1280	< 10	< 20	2.5	< 3	< 10	40	< 0.001	1.2	20	< 10	3.8	< 10	0.4	0.043	< 0.001	2.8	
742181 Dup				< 3.0	7.5	< 30	1250	< 10	< 20	2.5	< 3	< 10	40	< 0.001	1.2	10	< 10	3.7	< 10	0.4	0.042	< 0.001	2.7	
Method Blank																								
Method Blank																								
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					
Method Blank	< 2	< 5	< 5																					

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas																	0.008	< 1	0.045	7.8	0.8	17	0.063
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520
GXR-4 Meas																	0.127	2	0.127	8.8	1.5	3	0.125
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564
GXR-6 Meas																	< 1	0.027	26.8	0.9	6	0.071	
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104	
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas	0.003		< 30		< 50	< 40	180					90	< 50		0.010	70							
SDC-1 1F2 Assay (%) Cert	0.0038		25.0		0.540	17.0	180					102	0.80		0.0103	290							
SBC-1 1F2-assay Kamloops (%) Meas	0.009		60		< 50	< 40	180			< 50	< 100	220	< 50	40	0.018	150							
SBC-1 1F2-assay Kamloops (%) Cert	0.00828		35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134							
DNC-1a 1F2-assay Kamloops (%) Meas	0.026				< 50	< 40	140					150		20	0.006	< 50							
DNC-1a 1F2-assay Kamloops (%) Cert	0.0247					0.960	31.0	144				148.00 00		18.0	0.007	38.0							
GXR-6 1F2-assay Kamloops (%) Meas	0.003	0.04	100	< 0.1	< 50	< 40	40	20		< 50	< 100	160	< 50	10	0.011	120							
GXR-6 1F2-assay Kamloops (%) Cert	0.0027	0.0350	101	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110							
GXR-4 1F2-assay Kamloops (%) Meas	0.004	0.13	40	1.8	< 50	< 40	210	40		< 50	< 100	80	< 50	20	0.007	70							

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-4 1F2-assay	0.0042	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186							
Kamloops (%) Cert																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas	0.223			1.2											0.015								
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert	0.225			1.20											0.0133								
OREAS 14P 1F2-assay Kamloops (%) Meas	1.98																						
OREAS 14P 1F2-assay Kamloops (%) Cert	2.10																						
GBW 07238 1F2-assay Kamloops (%) Meas	0.003		< 30										1800	10	0.007								
GBW 07238 1F2-assay Kamloops (%) Cert	0.00178		18.7										3600	11.4	0.00655								
GBW 07239 1F2-assay Kamloops (%) Meas	0.003		50										1050	40	0.012								
GBW 07239 1F2-assay Kamloops (%) Cert	0.00209		26.1										1000.00	34.2	0.012								
OREAS 923 (AQUA REGIA) Meas																	< 1	0.064	22.4	0.6			
OREAS 923 (AQUA REGIA) Cert																	0.684	0.061	23.4	0.61			
SdAR-M2 (U.S.G.S.) Meas	0.005		840		< 40	140				< 100	20	< 50	30	0.079	150					12.0	4.4		
SdAR-M2 (U.S.G.S.) Cert	0.005		808		4.1	144				2.53	25.2	2.8	32.7	0.076	259					17.9	6.6		
CCU-1e Meas			7260	35.9	60		70		< 50					3.02									
CCU-1e Cert			7030	35.3	104		61.8		2.69					3.02									
742096 Orig																							
742096 Dup																							

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742104 Orig	< 0.001	0.07	< 30	0.5	< 50	< 40	450	20	0.3	< 50	< 100	90	< 50	20	0.006	70	0.136	< 1	0.075	5.9	0.5	4	0.082
742104 Dup	0.001	0.08	< 30	0.6	< 50	< 40	450	< 20	0.3	< 50	< 100	90	< 50	20	0.006	70	0.127	< 1	0.067	5.4	0.5	7	0.075
742108 Orig																							
742108 Dup																							
742118 Orig	< 0.001	0.09	< 30	0.6	< 50	< 40	340	50	0.3	< 50	< 100	90	< 50	20	0.009	80	0.011	< 1	0.083	6.4	0.5	5	0.064
742118 Dup	< 0.001	0.09	< 30	0.6	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	20	0.009	80	0.010	< 1	0.075	6.0	0.5	4	0.058
742121 Orig																							
742121 Dup																							
742131 Orig																	0.002	2	0.045	2.5	0.3	< 1	0.061
742131 Dup																	0.002	2	0.045	2.6	0.2	< 1	0.063
742135 Orig																							
742135 Dup																							
742141 Orig	< 0.001	0.05	< 30	0.3	< 50	< 40	650	< 20	0.2	< 50	< 100	50	< 50	< 10	0.002	< 50	0.088	< 1	0.045	2.1	0.3	< 1	0.083
742141 Split PREP DUP	< 0.001	0.04	< 30	0.2	< 50	< 40	620	< 20	0.2	< 50	< 100	50	< 50	< 10	0.002	< 50	0.095	< 1	0.045	2.2	0.3	< 1	0.098
742142 Orig	0.001	0.07	< 30	0.2	< 50	< 40	730	< 20	0.3	< 50	< 100	70	< 50	10	0.003	< 50							
742142 Dup	< 0.001	0.06	< 30	0.2	< 50	< 40	690	30	0.2	< 50	< 100	60	< 50	10	0.003	< 50							
742144 Orig																	0.101	< 1	0.073	3.9	0.5	1	0.063
742144 Dup																	0.108	< 1	0.082	4.3	0.5	3	0.067
742155 Orig																							
742155 Dup																							
742156 Orig	< 0.001	0.04	< 30	0.3	< 50	< 40	370	< 20	0.2	< 50	< 100	30	< 50	< 10	0.002	< 50							
742156 Dup	< 0.001	0.04	< 30	0.3	< 50	< 40	360	20	0.2	< 50	< 100	30	< 50	< 10	0.003	< 50							
742167 Orig																	0.065	< 1	0.036	4.2	0.5	2	0.098
742167 Dup																	0.063	< 1	0.036	4.1	0.4	1	0.092
742169 Orig																							
742169 Dup																							
742177 Orig																							
742177 Dup																							
742181 Orig	< 0.001	0.03	< 30	0.6	< 50	< 40	330	30	0.2	< 50	< 100	50	< 50	10	0.002	80	0.073	< 1	0.027	3.1	0.4	< 1	0.055
742181 Dup	< 0.001	0.03	< 30	0.6	< 50	< 40	320	< 20	0.2	< 50	< 100	40	< 50	10	0.002	80	0.078	< 1	0.027	3.4	0.3	< 1	0.058
Method Blank																	< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.011
Method Blank																	< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.009
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
GXR-1 Meas	0.17	0.64	0.04	1440	0.87	1.3	73	6	860	23.8	7.7	37.0	1100	735	5.53		391	2.2	172	24.3	12.9	< 0.1	16.6
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0
GXR-4 Meas	1.61	2.75	1.86	17.3	0.82	6.7	79	54	140	2.97	14.6	38.0	6560	70.5	10.7		101	95.6	70.0	11.6	7.4	0.1	315
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310
GXR-6 Meas	0.39	7.24	1.11	0.15	0.17	22.1	154	73	1020	5.42	13.0	22.2	62.8	114	15.5		174	62.5	34.6	6.08	3.4	< 0.1	1.73
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS												
GXR-4 1F2-assay																							
Kamloops (%) Cert																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
OREAS 923 (AQUA REGIA) Meas	1.42	2.77	0.35	19.7	0.37	3.5	30	38	834	5.92	21.8	32.1	4190	328	7.64		7.1	21.8	13.0	16.4	14.3		0.77
OREAS 923 (AQUA REGIA) Cert	1.43	2.80	0.322	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84
SdAR-M2 (U.S.G.S.) Meas				0.89		2.0	14	5			12.1	43.7	226	738	3.17			17.4	18.9	15.5	4.8	1.3	11.9
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3
CCU-1e Meas																							
CCU-1e Cert																							
742096 Orig																							
742096 Dup																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742104 Orig	0.85	2.07	0.23	0.64	2.35	3.8	63	8	1360	3.01	8.8	3.3	57.8	66.2	6.48	< 0.1	4.1	8.9	183	10.1	7.7	0.3	4.00
742104 Dup	0.78	1.91	0.22	0.68	2.20	3.5	58	6	1270	2.80	8.0	3.0	66.8	58.5	5.99	< 0.1	3.6	8.1	168	9.40	1.6	0.2	3.00
742108 Orig																							
742108 Dup																							
742118 Orig	0.78	1.86	0.48	0.32	4.27	3.6	46	3	1410	3.04	6.9	2.2	7.50	79.1	5.16	< 0.1	3.5	16.9	170	15.8	0.2	< 0.1	21.0
742118 Dup	0.71	1.69	0.44	0.30	3.87	3.2	42	2	1280	2.77	6.0	2.1	6.87	71.4	4.61	< 0.1	3.4	15.5	156	14.4	0.3	< 0.1	20.0
742121 Orig																							
742121 Dup																							
742131 Orig	0.31	1.00	0.45	0.83	1.74	0.8	9	5	675	1.72	5.3	3.7	1680	65.0	3.39	< 0.1	1.0	14.0	125	4.91	1.4	< 0.1	14.5
742131 Dup	0.31	1.04	0.47	0.84	1.74	0.7	10	5	675	1.73	5.3	3.3	1680	68.2	3.60	< 0.1	0.7	15.0	127	5.04	1.3	< 0.1	14.2
742135 Orig																							
742135 Dup																							
742141 Orig	0.42	1.15	0.12	0.10	1.74	1.4	22	10	345	1.24	3.3	3.6	1.84	19.0	5.05	< 0.1	0.5	3.9	193	4.56	1.3	0.2	1.72
742141 Split PREP DUP	0.44	1.23	0.14	0.11	1.84	1.5	24	8	361	1.30	3.5	3.8	2.21	22.8	5.33	< 0.1	0.6	4.3	211	4.85	1.6	0.2	1.36
742142 Orig																							
742142 Dup																							
742144 Orig	0.69	1.71	0.26	0.14	2.35	3.7	36	3	521	2.25	5.5	2.9	3.21	47.9	5.72	0.1	0.7	8.7	208	10.9	2.0	0.2	0.67
742144 Dup	0.73	1.83	0.27	0.14	2.51	4.1	39	3	548	2.41	5.8	3.1	2.91	39.8	6.07	< 0.1	0.7	9.1	222	11.5	2.0	0.2	0.73
742155 Orig																							
742155 Dup																							
742156 Orig																							
742156 Dup																							
742167 Orig	0.47	1.14	0.14	0.12	1.61	2.1	26	11	319	1.52	3.9	5.4	8.36	26.0	5.84	< 0.1	0.6	5.4	99.9	5.80	1.0	0.1	4.99
742167 Dup	0.46	1.10	0.14	0.09	1.53	2.0	25	12	306	1.45	3.8	3.9	7.76	26.5	5.55	< 0.1	0.4	5.4	98.6	5.70	1.1	0.1	3.58
742169 Orig																							
742169 Dup																							
742177 Orig																							
742177 Dup																							
742181 Orig	0.36	0.73	0.08	0.70	1.87	2.9	29	25	334	0.96	2.1	2.5	9.24	24.8	3.92	0.1	2.3	1.9	131	8.79	7.3	0.4	1.00
742181 Dup	0.37	0.78	0.08	0.08	1.91	3.0	31	23	352	1.00	2.3	2.9	7.63	39.4	4.06	0.2	2.3	2.0	140	9.52	7.5	0.4	1.06
Method Blank	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	< 0.1	0.08	< 0.1	0.09	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1
Method Blank	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	0.09	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	29.4	0.66	26.1	91.3	10.5	2.86	151	6.0	10.2	2.61		7.09	2.1	12.9	0.5	3.2	0.6	4.0			0.3	1.9	0.3
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-4 Meas	2.97	0.20	5.95	3.01	0.71	2.46	11.4	45.3	77.6	< 0.01		36.5	5.0	5.4	1.1	3.8	0.4	2.2			0.1	0.8	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-6 Meas	0.299	0.06	0.62	0.48	0.07	3.36	1010	11.2	28.1	0.08		11.6	2.0	0.3	0.4	1.7	0.2	1.3			0.6	< 0.1	
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
GXR-4 1F2-assay																							
Kamloops (%)																							
Cert																							
OREAS 13b (4 Acid) 1F2-assay																							
Kamloops (%)																							
Meas																							
OREAS 13b (4 Acid) 1F2-assay																							
Kamloops (%)																							
Cert																							
OREAS 14P 1F2-assay																							
Kamloops (%)																							
Meas																							
OREAS 14P 1F2-assay																							
Kamloops (%)																							
Cert																							
GBW 07238 1F2-assay																							
Kamloops (%)																							
Meas																							
GBW 07238 1F2-assay																							
Kamloops (%)																							
Cert																							
GBW 07239 1F2-assay																							
Kamloops (%)																							
Meas																							
GBW 07239 1F2-assay																							
Kamloops (%)																							
Cert																							
OREAS 923 (AQUA REGIA) Meas	1.47	0.41	6.04	0.32		1.26	33.4	33.9	60.4	0.49	7.7	30.7	4.9	6.1		4.2	0.6						
OREAS 923 (AQUA REGIA) Cert	1.62	0.45	5.99	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						
SdAR-M2 (U.S.G.S.) Meas						0.74	104	41.0	78.7	5.16	9.2	36.1	5.3		0.5	4.1	0.5	3.1	0.7	1.7	0.2	1.5	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
CCU-1e Meas																							
CCU-1e Cert																							
742096 Orig																							
742096 Dup																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742104 Orig	0.456	0.05	0.74	0.43	0.55	0.51	48.9	13.0	22.8	0.05	2.5	9.71	2.0	0.5	0.5	1.9	0.3	1.8	0.4	1.2	0.2	1.2	0.2
742104 Dup	0.445	0.04	0.91	0.34	0.47	0.50	54.8	12.8	22.4	0.05	2.5	9.80	2.1	0.3	0.5	2.0	0.3	1.9	0.3	1.2	0.2	1.2	0.2
742108 Orig																							
742108 Dup																							
742118 Orig	0.310	0.06	0.38	0.16	0.08	1.49	21.8	14.4	27.7	0.15	3.3	13.9	3.1	0.3	0.8	3.3	0.5	3.2	0.6	1.8	0.3	1.6	0.2
742118 Dup	0.235	0.05	0.30	0.19	0.02	1.38	23.4	13.2	25.4	0.12	3.0	12.6	2.8	0.5	0.8	3.1	0.4	3.0	0.6	1.8	0.2	1.6	0.2
742121 Orig																							
742121 Dup																							
742131 Orig	2.01	0.11	0.38	0.27	0.41	0.83	11.9	5.8	10.8	0.35	1.5	7.02	1.3	0.9	0.4	1.1	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1
742131 Dup	2.20	0.11	0.49	0.22	0.44	0.81	8.7	5.9	11.0	0.41	1.6	7.07	1.3	0.8	0.4	1.1	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1
742135 Orig																							
742135 Dup																							
742141 Orig	0.072	0.04	0.63	0.54	< 0.02	0.28	110	5.4	9.02	0.05	1.2	5.35	1.0	< 0.1	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1
742141 Split PREP DUP	0.349	0.05	0.75	0.65	0.04	0.30	132	5.8	9.80	0.02	1.3	5.83	1.1	< 0.1	0.3	1.1	0.1	0.8	0.2	0.5	< 0.1	0.4	< 0.1
742142 Orig																							
742142 Dup																							
742144 Orig	0.187	0.04	0.79	0.87	0.03	0.87	164	12.8	21.2	0.02	2.7	11.4	2.0	0.3	0.5	1.9	0.3	1.8	0.4	1.1	0.2	1.0	0.2
742144 Dup	0.173	0.04	0.79	0.73	0.02	0.88	174	13.7	22.8	0.04	2.9	12.0	2.2	0.3	0.6	2.1	0.3	1.9	0.5	1.2	0.2	1.2	0.2
742155 Orig																							
742155 Dup																							
742156 Orig																							
742156 Dup																							
742167 Orig	0.136	< 0.02	0.37	0.19	0.09	0.27	58.0	7.5	12.4	0.06	1.6	6.89	1.3	< 0.1	0.4	1.2	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1
742167 Dup	0.129	< 0.02	0.51	0.21	0.05	0.27	76.5	7.5	12.3	0.07	1.6	6.95	1.2	0.1	0.4	1.2	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1
742169 Orig																							
742169 Dup																							
742177 Orig																							
742177 Dup																							
742181 Orig	0.354	< 0.02	1.46	0.61	0.05	0.07	53.6	13.7	20.8	0.72	2.4	9.19	1.5	< 0.1	0.3	1.4	0.2	1.3	0.3	0.9	0.1	1.0	0.2
742181 Dup	0.620	< 0.02	1.87	0.56	0.03	0.08	53.4	14.8	22.4	0.64	2.6	9.66	1.5	0.4	0.3	1.5	0.2	1.4	0.3	0.9	0.2	1.1	0.2
Method Blank	< 0.002	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	6.3	< 0.5	< 0.01	0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank	< 0.002	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	6.3	< 0.5	< 0.01	0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.3	< 0.05	140		3210	0.35	774	2.2	28.1	3540
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-4 Meas	0.2	< 0.05	10.4		263	2.83	45.7	16.6	4.1	120
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-6 Meas	< 0.1	< 0.05	< 0.1		86.7	1.62	100.0	3.8	0.7	50
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
CDN-PGMS-25 Meas										
CDN-PGMS-25 Cert										
CDN-PGMS-25 Meas										
CDN-PGMS-25 Cert										
SDC-1 1F2 Assay (%) Meas										
SDC-1 1F2 Assay (%) Cert										
SBC-1 1F2-assay Kamloops (%) Meas										
SBC-1 1F2-assay Kamloops (%) Cert										
DNC-1a 1F2-assay Kamloops (%) Meas										
DNC-1a 1F2-assay Kamloops (%) Cert										
GXR-6 1F2-assay Kamloops (%) Meas										
GXR-6 1F2-assay Kamloops (%) Cert										
GXR-4 1F2-assay Kamloops (%) Meas										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-4 1F2-assay										
Kamloops (%)										
Cert										
OREAS 13b (4 Acid) 1F2-assay										
Kamloops (%)										
Meas										
OREAS 13b (4 Acid) 1F2-assay										
Kamloops (%)										
Cert										
OREAS 14P 1F2-assay										
Kamloops (%)										
Meas										
OREAS 14P 1F2-assay										
Kamloops (%)										
Cert										
GBW 07238 1F2-assay										
Kamloops (%)										
Meas										
GBW 07238 1F2-assay										
Kamloops (%)										
Cert										
GBW 07239 1F2-assay										
Kamloops (%)										
Meas										
GBW 07239 1F2-assay										
Kamloops (%)										
Cert										
OREAS 923 (AQUA REGIA) Meas	0.3		1.7		0.13	80.1	13.9	1.9		
OREAS 923 (AQUA REGIA) Cert	0.60		1.96		0.12	81	14.3	1.80		
SdAR-M2 (U.S.G.S.) Meas	< 0.1	< 0.05	0.8			768	10.0	1.3	1120	
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8			808	14.2	2.53	1440.00	
CCU-1e Meas										
CCU-1e Cert										
742096 Orig										
742096 Dup										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742104 Orig	0.2	< 0.05	0.2	< 0.001	12.6	0.07	6.88	5.4	2.0	< 10
742104 Dup	< 0.1	< 0.05	0.2	< 0.001	6.7	0.07	7.91	5.4	2.0	< 10
742108 Orig										
742108 Dup										
742118 Orig	< 0.1	< 0.05	< 0.1	0.009	< 0.5	0.13	11.4	3.3	1.3	< 10
742118 Dup	< 0.1	< 0.05	0.2	0.006	6.6	0.13	9.22	3.0	1.2	< 10
742121 Orig										
742121 Dup										
742131 Orig	< 0.1	< 0.05	0.1	0.011	13.8	0.11	27.1	1.0	0.2	10
742131 Dup	< 0.1	< 0.05	0.6	0.009	2.4	0.12	27.5	1.0	0.2	< 10
742135 Orig										
742135 Dup										
742141 Orig	< 0.1	< 0.05	0.4	< 0.001	2.7	< 0.02	2.60	1.5	0.7	< 10
742141 Split PREP DUP	< 0.1	< 0.05	0.4	< 0.001	2.4	< 0.02	3.24	1.5	0.7	< 10
742142 Orig										
742142 Dup										
742144 Orig	< 0.1	< 0.05	0.4	0.001	< 0.5	0.04	4.70	4.2	1.6	< 10
742144 Dup	< 0.1	< 0.05	0.4	< 0.001	< 0.5	0.05	7.29	4.7	1.7	< 10
742155 Orig										
742155 Dup										
742156 Orig										
742156 Dup										
742167 Orig	< 0.1	< 0.05	0.3	0.001	< 0.5	0.02	4.89	2.1	1.0	< 10
742167 Dup	< 0.1	< 0.05	0.2	0.001	4.1	0.02	5.07	2.0	1.0	< 10
742169 Orig										
742169 Dup										
742177 Orig										
742177 Dup										
742181 Orig	0.3	< 0.05	0.2	0.001	< 0.5	0.02	10.2	10.9	4.1	< 10
742181 Dup	0.3	< 0.05	0.2	< 0.001	< 0.5	< 0.02	11.4	12.0	4.3	< 10
Method Blank	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	0.04	< 0.1	< 0.1	< 10
Method Blank	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	< 0.01	< 0.1	< 0.1	< 10
Method Blank										
Method Blank										
Method Blank										
Method Blank										
Method Blank										

Quality Analysis ...



Innovative Technologies

Date Submitted: 11-Sep-17
Invoice No.: A17-09876 (i)
Invoice Date: 01-Nov-17
Your Reference: ECSTASY-CDWA-1

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

183 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1C-OES-Kamloops Fire Assay ICPOES
 Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)
 Code Sieve Report-Kamloops Internal Sieve Report Internal
 Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-09876 (i)

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742186	16	< 5	< 5	< 3.0	10.3	< 30	1010	< 10	< 20	0.5	4	< 10	10	0.002	4.6	20	< 10	3.2	30	1.3	0.113	< 0.001	1.5
742187	18	< 5	< 5	< 3.0	9.1	< 30	1450	< 10	< 20	0.7	4	10	10	0.003	4.3	20	< 10	3.1	30	1.2	0.124	< 0.001	1.9
742188	14	< 5	< 5	< 3.0	9.7	< 30	800	< 10	< 20	0.4	7	10	< 10	0.003	4.0	30	< 10	3.7	20	1.2	0.147	< 0.001	1.1
742189	24	< 5	< 5	< 3.0	9.9	< 30	760	< 10	< 20	0.4	5	10	< 10	0.002	5.3	20	< 10	3.6	20	1.5	0.173	0.001	1.6
742190	69	14	< 5	< 3.0	9.2	< 30	210	< 10	< 20	2.2	< 3	10	40	0.194	3.9	20	< 10	1.5	< 10	1.7	0.040	0.006	2.4
742191	37	< 5	< 5	< 3.0	10.1	< 30	750	< 10	< 20	0.4	4	10	30	0.004	5.1	20	< 10	3.4	20	1.3	0.150	< 0.001	1.7
742192	31	< 5	< 5	< 3.0	10.4	< 30	800	< 10	< 20	0.5	5	10	< 10	0.003	5.5	10	< 10	2.9	40	1.8	0.265	< 0.001	1.5
742193	48	< 5	< 5	< 3.0	10.3	< 30	710	< 10	< 20	0.5	5	10	< 10	0.003	5.3	10	< 10	3.1	20	1.5	0.189	< 0.001	1.8
742194	64	< 5	< 5	< 3.0	10.3	< 30	1030	< 10	< 20	0.3	5	< 10	10	0.002	4.9	20	< 10	3.9	10	1.1	0.096	0.001	0.3
742195	74	< 5	< 5	< 3.0	9.8	< 30	1090	< 10	< 20	0.5	6	10	10	0.002	4.7	30	< 10	3.9	10	0.9	0.088	0.002	0.9
742196	34	< 5	< 5	< 3.0	9.1	< 30	1720	< 10	< 20	1.2	< 3	< 10	< 10	0.003	5.0	20	< 10	3.9	< 10	0.9	0.100	< 0.001	0.9
742197	17	< 5	< 5	< 3.0	8.8	< 30	1280	< 10	< 20	2.5	< 3	< 10	< 10	0.002	4.8	10	< 10	2.6	20	1.4	0.201	< 0.001	2.2
742198	24	< 5	< 5	< 3.0	8.4	< 30	830	< 10	< 20	3.9	< 3	< 10	< 10	0.005	4.3	20	< 10	2.6	< 10	1.2	0.166	< 0.001	2.0
742199	26	< 5	< 5	< 3.0	8.8	< 30	710	< 10	< 20	3.2	< 3	10	60	0.006	4.7	20	< 10	2.1	20	1.3	0.226	< 0.001	2.7
742200D	26	< 5	< 5	< 3.0	8.5	< 30	730	< 10	< 20	3.1	< 3	10	10	0.005	4.2	10	< 10	2.1	10	1.3	0.216	< 0.001	2.6
742201	< 2	< 5	< 5	< 3.0	7.6	< 30	2140	< 10	< 20	1.2	< 3	< 10	10	< 0.001	1.2	10	< 10	4.6	< 10	0.2	0.043	< 0.001	1.9
742202	< 2	< 5	< 5	< 3.0	7.4	< 30	2310	< 10	< 20	1.1	< 3	< 10	30	< 0.001	1.1	20	< 10	4.3	< 10	0.2	0.043	< 0.001	1.9
742203	9	< 5	< 5	< 3.0	9.1	< 30	1140	< 10	< 20	2.4	< 3	< 10	10	0.004	5.0	10	< 10	2.6	20	1.3	0.181	< 0.001	2.2
742204	61	< 5	< 5	< 3.0	7.4	< 30	1040	< 10	< 20	1.2	< 3	10	20	0.002	5.0	20	< 10	2.9	< 10	0.6	0.083	< 0.001	0.7
742205	15	< 5	< 5	< 3.0	8.9	< 30	1070	< 10	< 20	2.8	< 3	10	< 10	0.003	5.0	20	< 10	2.9	10	1.3	0.182	< 0.001	2.0
742206	< 2	< 5	< 5	< 3.0	8.3	< 30	1920	< 10	< 20	1.4	< 3	< 10	50	0.002	2.6	20	< 10	3.4	10	0.6	0.117	< 0.001	3.6
742207	< 2	< 5	< 5	< 3.0	8.1	< 30	2310	< 10	< 20	1.3	< 3	< 10	10	0.002	2.5	20	< 10	3.6	10	0.5	0.111	< 0.001	3.5
742208	13	< 5	< 5	< 3.0	9.5	< 30	1520	< 10	< 20	2.3	< 3	10	< 10	0.002	4.8	20	< 10	2.9	10	1.3	0.198	< 0.001	2.4
742209	120	< 5	< 5	< 3.0	7.9	< 30	1400	< 10	< 20	1.2	11	< 10	10	0.008	4.3	20	< 10	3.5	< 10	1.2	0.128	< 0.001	0.8
742210	216	< 5	< 5	< 3.0	8.4	< 30	1620	< 10	< 20	2.2	< 3	20	100	0.189	4.7	20	< 10	4.2	10	1.1	0.046	0.017	1.0
742211	38	< 5	< 5	< 3.0	9.4	< 30	1200	< 10	< 20	0.7	4	10	10	0.003	5.2	20	< 10	3.8	10	1.1	0.102	< 0.001	0.6
742212	106	< 5	< 5	< 3.0	9.6	< 30	1630	< 10	< 20	0.5	22	10	30	0.010	5.2	20	< 10	4.3	< 10	1.1	0.091	< 0.001	0.1
742213	45	< 5	< 5	< 3.0	9.7	< 30	1420	< 10	< 20	0.5	< 3	10	< 10	0.002	5.5	20	10	4.6	< 10	0.8	0.060	0.002	0.4
742214	22	< 5	< 5	< 3.0	8.0	< 30	1080	< 10	< 20	1.2	< 3	10	< 10	0.002	4.9	20	< 10	2.7	10	1.5	0.228	< 0.001	2.0
742215	57	< 5	< 5	< 3.0	8.2	< 30	1400	< 10	< 20	0.3	< 3	< 10	10	< 0.001	4.0	20	10	4.6	< 10	0.3	0.015	< 0.001	0.1
742216	49	< 5	< 5	< 3.0	8.7	< 30	1370	< 10	< 20	0.7	< 3	< 10	10	0.002	4.8	10	< 10	4.0	< 10	1.2	0.141	< 0.001	0.8
742217	46	< 5	< 5	< 3.0	9.1	< 30	1400	< 10	< 20	0.5	< 3	10	< 10	0.002	5.4	30	< 10	4.6	< 10	0.8	0.059	0.003	0.4
742218	51	< 5	< 5	< 3.0	8.9	< 30	490	< 10	< 20	1.9	6	< 10	< 10	0.002	4.4	20	< 10	2.3	< 10	1.5	0.244	< 0.001	2.2
742219	43	< 5	< 5	< 3.0	8.5	< 30	990	< 10	< 20	1.4	8	< 10	< 10	0.003	4.3	20	< 10	2.4	< 10	1.6	0.281	< 0.001	2.3
742220D	42	< 5	< 5	< 3.0	8.7	< 30	1090	< 10	< 20	1.5	9	10	10	0.003	4.8	20	< 10	2.4	< 10	1.7	0.288	< 0.001	2.3
742221	92	< 5	< 5	< 3.0	9.5	< 30	840	< 10	< 20	0.4	5	< 10	10	0.001	5.4	20	< 10	4.2	< 10	1.4	0.142	< 0.001	0.5
742222	119	< 5	< 5	4.0	9.9	< 30	580	< 10	< 20	0.5	4	< 10	< 10	0.002	5.3	20	< 10	4.0	10	1.5	0.193	< 0.001	0.7
742223	49	< 5	< 5	< 3.0	10.1	30	1200	< 10	< 20	0.6	< 3	10	10	0.004	4.3	20	< 10	4.5	< 10	0.8	0.089	0.001	0.4
742224	20	< 5	< 5	< 3.0	9.0	< 30	2770	< 10	< 20	1.0	4	10	10	0.002	5.1	20	< 10	3.2	10	1.5	0.190	< 0.001	1.8
742225	41	< 5	< 5	< 3.0	9.0	< 30	1990	< 10	< 20	0.7	27	< 10	10	0.002	5.2	20	< 10	3.7	10	1.6	0.177	0.002	0.7
742226	29	< 5	< 5	< 3.0	9.8	< 30	1440	< 10	< 20	0.4	13	10	10	0.002	5.2	20	< 10	3.8	< 10	1.7	0.229	< 0.001	0.4
742227	33	< 5	< 5	< 3.0	9.2	< 30	2030	< 10	< 20	0.7	6	< 10	10	0.002	5.0	20	< 10	3.4	10	1.4	0.210	< 0.001	1.5

Results

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Report: A17-09876

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742228	42	< 5	< 5	< 3.0	10.0	< 30	1570	< 10	< 20	0.3	< 3	< 10	20	0.003	5.6	20	10	4.5	< 10	0.7	0.053	< 0.001	0.3
742229	153	< 5	< 5	< 3.0	9.3	< 30	1590	< 10	< 20	1.1	4	< 10	10	0.003	5.3	10	< 10	3.3	< 10	1.1	0.109	< 0.001	0.2
742230	110	< 5	< 5	< 3.0	8.9	< 30	1230	< 10	< 20	5.4	< 3	20	50	0.117	6.5	20	< 10	2.4	20	2.2	0.099	0.002	2.0
742231	29	< 5	< 5	< 3.0	8.8	< 30	1090	< 10	< 20	3.4	< 3	< 10	10	0.003	4.8	10	< 10	2.8	10	1.3	0.245	< 0.001	2.4
742232	14	< 5	< 5	< 3.0	9.0	< 30	1060	< 10	< 20	3.0	< 3	< 10	20	0.005	4.8	20	< 10	2.8	10	1.3	0.237	< 0.001	2.2
742233	24	< 5	< 5	< 3.0	8.7	< 30	1050	< 10	< 20	3.3	< 3	10	10	0.003	4.8	20	< 10	3.1	10	1.3	0.270	< 0.001	2.1
742234	55	< 5	< 5	< 3.0	8.8	< 30	910	< 10	< 20	2.6	3	< 10	10	0.004	4.5	20	< 10	3.1	10	1.4	0.198	< 0.001	2.2
742235	21	< 5	< 5	< 3.0	8.7	< 30	1080	< 10	< 20	2.9	< 3	10	20	0.004	4.9	20	< 10	2.4	10	1.5	0.262	< 0.001	2.8
742236	19	< 5	< 5	< 3.0	8.6	< 30	1210	< 10	< 20	2.3	< 3	30	10	0.002	7.1	10	< 10	3.0	< 10	1.3	0.222	< 0.001	1.7
742237	18	< 5	< 5	< 3.0	8.9	< 30	790	< 10	< 20	1.7	< 3	30	10	0.007	6.4	20	< 10	2.8	< 10	1.5	0.255	< 0.001	2.0
742238	28	< 5	< 5	< 3.0	8.7	< 30	950	< 10	< 20	1.8	< 3	40	20	0.001	8.2	20	< 10	2.9	< 10	1.3	0.205	< 0.001	2.0
742239	12	< 5	< 5	< 3.0	9.1	< 30	1130	< 10	< 20	2.3	< 3	20	20	0.009	5.3	20	< 10	2.6	< 10	1.3	0.205	0.001	2.7
742240D	11	< 5	< 5	< 3.0	9.1	< 30	1130	< 10	< 20	2.3	< 3	10	10	0.009	5.4	20	< 10	2.6	< 10	1.3	0.212	0.001	2.6
742241	< 2	< 5	< 5	< 3.0	8.3	< 30	2030	< 10	< 20	2.5	< 3	< 10	20	0.001	3.9	20	< 10	3.2	< 10	0.9	0.120	< 0.001	2.8
742242	< 2	< 5	< 5	< 3.0	8.2	< 30	1560	< 10	< 20	2.0	< 3	10	20	0.007	3.5	20	< 10	3.0	< 10	0.9	0.131	< 0.001	2.7
742243	< 2	< 5	< 5	< 3.0	7.4	< 30	1680	< 10	< 20	2.1	< 3	< 10	20	0.002	3.3	10	< 10	3.1	< 10	0.8	0.145	< 0.001	2.8
742244	< 2	< 5	< 5	< 3.0	8.5	< 30	1570	< 10	< 20	2.7	3	< 10	20	0.011	3.4	20	10	3.3	< 10	0.8	0.179	< 0.001	2.5
742245	< 2	< 5	< 5	< 3.0	8.1	< 30	1470	< 10	< 20	2.4	< 3	< 10	30	0.003	3.3	10	< 10	3.1	< 10	0.8	0.148	< 0.001	2.8
742246	< 2	< 5	< 5	< 3.0	7.8	< 30	1280	< 10	< 20	2.4	< 3	< 10	100	0.002	3.1	20	< 10	3.0	< 10	0.7	0.105	< 0.001	2.6
742247	< 2	< 5	< 5	< 3.0	8.3	< 30	1590	< 10	< 20	2.5	< 3	< 10	20	< 0.001	3.3	20	< 10	3.3	< 10	0.8	0.111	< 0.001	2.7
742248	< 2	< 5	< 5	< 3.0	8.1	< 30	1730	< 10	< 20	2.4	< 3	< 10	20	< 0.001	3.2	10	< 10	3.4	< 10	0.8	0.101	< 0.001	2.8
742249	< 2	< 5	< 5	< 3.0	8.5	< 30	2340	< 10	< 20	2.4	< 3	< 10	20	< 0.001	3.2	10	< 10	3.2	< 10	0.8	0.101	< 0.001	2.8
742250	< 2	< 5	< 5	< 3.0	6.9	< 30	310	< 10	< 20	0.4	< 3	< 10	20	< 0.001	1.1	20	< 10	4.6	10	< 0.1	0.024	< 0.001	2.7
742251	9	< 5	< 5	< 3.0	8.8	< 30	1930	< 10	< 20	2.7	< 3	< 10	20	< 0.001	3.3	10	< 10	1.4	< 10	0.8	0.099	< 0.001	3.0
742252	< 2	< 5	< 5	< 3.0	7.6	< 30	1590	< 10	< 20	2.5	< 3	< 10	20	< 0.001	3.2	20	< 10	1.6	< 10	0.8	0.100	< 0.001	2.9
742253	< 2	< 5	< 5	< 3.0	8.1	< 30	1440	< 10	< 20	2.4	< 3	< 10	20	< 0.001	3.1	< 10	< 10	3.1	< 10	0.7	0.100	< 0.001	2.9
742254	< 2	< 5	< 5	< 3.0	8.3	< 30	1750	< 10	< 20	2.5	< 3	< 10	30	< 0.001	3.1	20	< 10	3.3	< 10	0.7	0.102	< 0.001	2.8
742255	< 2	< 5	< 5	< 3.0	7.7	< 30	1450	< 10	< 20	2.4	< 3	< 10	20	< 0.001	3.1	< 10	< 10	3.1	< 10	0.7	0.100	< 0.001	2.7
742256	< 2	< 5	< 5	< 3.0	8.0	< 30	1560	< 10	< 20	2.4	< 3	< 10	20	< 0.001	3.1	20	< 10	3.2	< 10	0.7	0.109	< 0.001	2.8
742257	13	< 5	< 5	< 3.0	8.4	< 30	1480	< 10	< 20	2.5	< 3	< 10	20	< 0.001	3.2	10	< 10	3.4	< 10	0.8	0.099	< 0.001	2.9
742258	< 2	< 5	< 5	< 3.0	8.8	< 30	1470	< 10	< 20	2.6	< 3	< 10	30	< 0.001	3.2	20	< 10	3.3	< 10	0.8	0.107	< 0.001	2.9
742259	< 2	< 5	< 5	< 3.0	8.5	< 30	1440	< 10	< 20	2.6	< 3	< 10	30	< 0.001	3.3	20	< 10	3.2	< 10	0.8	0.104	< 0.001	2.9
742260D	8	< 5	< 5	< 3.0	8.6	< 30	1440	< 10	< 20	2.6	< 3	< 10	30	< 0.001	3.2	10	< 10	3.2	< 10	0.8	0.106	< 0.001	2.9
742261	< 2	< 5	< 5	< 3.0	8.6	< 30	1550	< 10	< 20	2.6	< 3	< 10	20	0.002	3.4	10	< 10	1.4	< 10	0.8	0.135	< 0.001	2.8
742262	< 2	< 5	< 5	< 3.0	7.5	< 30	1450	< 10	< 20	2.4	< 3	< 10	20	0.002	3.6	10	< 10	2.2	< 10	0.8	0.139	< 0.001	2.9
742263	< 2	< 5	< 5	< 3.0	7.5	< 30	1190	< 10	< 20	3.7	< 3	10	< 10	< 0.001	3.5	10	< 10	2.9	< 10	1.2	0.104	0.002	2.7
742264	5	< 5	< 5	< 3.0	7.3	< 30	770	< 10	< 20	1.8	< 3	< 10	60	0.008	4.3	20	< 10	2.8	10	1.2	0.166	< 0.001	2.1
742265	5	< 5	< 5	< 3.0	8.3	< 30	970	< 10	< 20	3.0	< 3	< 10	< 10	0.003	4.8	20	< 10	3.5	< 10	0.9	0.062	< 0.001	1.2
742266	15	< 5	< 5	< 3.0	8.1	< 30	900	< 10	< 20	3.4	< 3	10	10	0.001	4.4	20	< 10	3.3	< 10	0.7	0.039	< 0.001	0.9
742267	33	< 5	< 5	< 3.0	8.1	< 30	1100	< 10	< 20	3.9	< 3	< 10	10	0.001	3.8	20	< 10	3.4	< 10	0.9	0.067	< 0.001	0.9
742268	< 2	< 5	< 5	< 3.0	8.5	< 30	1160	< 10	< 20	3.6	< 3	< 10	10	< 0.001	4.3	10	10	3.4	< 10	1.0	0.056	< 0.001	1.0
742269	3	< 5	< 5	< 3.0	8.0	< 30	1010	< 10	< 20	4.6	< 3	10	10	0.015	4.8	10	< 10	3.6	< 10	0.6	0.020	< 0.001	0.2

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742270	291	5	< 5	< 3.0	8.5	70	520	< 10	< 20	1.5	< 3	20	70	0.300	5.6	10	< 10	5.1	< 10	1.5	0.056	0.015	1.6
742271	3	< 5	< 5	< 3.0	7.8	< 30	620	< 10	< 20	4.1	< 3	< 10	20	0.010	3.7	10	< 10	3.5	< 10	0.3	0.009	< 0.001	0.2
742272	4	< 5	< 5	< 3.0	8.2	< 30	1020	< 10	< 20	4.8	< 3	10	10	< 0.001	5.0	20	< 10	3.5	< 10	0.7	0.022	< 0.001	0.6
742273	< 2	< 5	5	< 3.0	7.9	< 30	1020	< 10	< 20	3.7	< 3	10	70	0.001	4.0	10	10	3.1	< 10	0.8	0.021	< 0.001	0.8
742274	4	< 5	< 5	< 3.0	7.4	< 30	770	< 10	< 20	4.0	< 3	< 10	10	< 0.001	3.3	20	< 10	3.7	< 10	0.4	0.019	< 0.001	0.2
742275	9	< 5	< 5	< 3.0	7.7	< 30	1100	< 10	< 20	3.2	< 3	10	< 10	< 0.001	4.4	10	< 10	3.7	< 10	0.7	0.030	< 0.001	0.5
742276	14	< 5	< 5	< 3.0	8.1	< 30	2030	< 10	< 20	0.8	< 3	20	10	< 0.001	4.6	20	< 10	4.2	< 10	0.5	0.023	< 0.001	0.1
742277	17	< 5	< 5	< 3.0	9.2	< 30	1850	< 10	< 20	1.2	< 3	< 10	20	< 0.001	4.1	10	< 10	4.2	< 10	0.9	0.034	< 0.001	0.2
742278	31	< 5	< 5	< 3.0	9.2	< 30	1150	< 10	< 20	0.6	< 3	< 10	10	< 0.001	4.4	20	< 10	4.2	< 10	0.9	0.034	< 0.001	0.6
742279	15	< 5	< 5	< 3.0	9.0	< 30	1160	< 10	< 20	0.7	< 3	< 10	< 10	0.003	4.7	20	10	2.5	< 10	0.9	0.045	< 0.001	1.3
742280D	17	< 5	< 5	< 3.0	8.8	< 30	1310	< 10	< 20	0.8	< 3	< 10	10	0.003	4.7	20	10	3.5	< 10	1.0	0.050	< 0.001	1.3
742281	11	< 5	< 5	< 3.0	9.4	< 30	1000	< 10	< 20	3.4	5	20	110	0.013	5.9	10	< 10	1.7	30	2.6	0.159	< 0.001	1.4
742282	16	< 5	< 5	< 3.0	9.0	< 30	1100	< 10	< 20	0.5	4	10	< 10	0.002	5.5	20	< 10	3.8	< 10	0.8	0.047	< 0.001	1.1
742283	12	< 5	< 5	< 3.0	8.8	< 30	1180	< 10	< 20	1.7	3	10	10	0.002	5.3	20	< 10	3.5	< 10	0.9	0.063	< 0.001	1.5
742284	12	< 5	< 5	< 3.0	8.1	< 30	900	< 10	< 20	1.8	10	20	30	0.002	4.3	20	< 10	3.1	10	1.5	0.100	< 0.001	1.1
742285	13	< 5	< 5	< 3.0	8.2	< 30	1090	< 10	< 20	1.9	12	< 10	10	0.002	4.0	20	< 10	3.2	< 10	0.9	0.075	< 0.001	1.8
742286	13	< 5	< 5	< 3.0	8.7	< 30	1050	< 10	< 20	0.8	5	10	30	0.004	4.2	20	< 10	3.0	10	1.3	0.084	< 0.001	1.7
742287	10	< 5	< 5	< 3.0	9.2	< 30	1140	< 10	< 20	1.2	6	10	30	0.003	4.5	20	< 10	3.4	10	1.5	0.101	< 0.001	1.5
742288	26	< 5	< 5	< 3.0	8.7	< 30	1460	< 10	< 20	1.4	6	< 10	< 10	0.007	4.2	20	< 10	3.2	< 10	1.2	0.070	< 0.001	1.8
742289	2	< 5	< 5	< 3.0	9.9	< 30	450	< 10	< 20	6.5	< 3	40	230	0.008	6.5	20	10	1.1	60	4.6	0.267	< 0.001	1.0
742290	< 2	< 5	< 5	< 3.0	5.9	< 30	550	< 10	< 20	1.7	< 3	10	70	0.002	2.8	20	< 10	1.1	10	0.8	0.057	< 0.001	2.1
742291	8	< 5	< 5	< 3.0	8.6	< 30	1520	< 10	< 20	2.0	6	10	20	0.003	4.3	20	< 10	3.6	< 10	1.2	0.094	< 0.001	1.1
742292	10	< 5	< 5	< 3.0	8.9	< 30	1240	< 10	< 20	0.7	7	< 10	20	0.002	4.3	10	< 10	4.1	< 10	0.7	0.049	< 0.001	0.9
742293	8	< 5	< 5	< 3.0	8.9	< 30	830	< 10	< 20	1.8	< 3	10	50	0.003	5.1	10	< 10	3.4	20	1.9	0.139	< 0.001	0.8
742294	14	< 5	< 5	< 3.0	8.7	< 30	780	< 10	< 20	2.7	4	20	50	0.004	4.4	10	10	3.4	20	1.8	0.144	< 0.001	0.9
742295	39	< 5	< 5	< 3.0	8.7	< 30	990	< 10	< 20	1.2	8	< 10	< 10	0.002	4.0	10	< 10	4.0	< 10	0.6	0.070	< 0.001	0.9
742296	54	< 5	< 5	< 3.0	9.4	40	930	< 10	< 20	0.7	7	10	20	0.003	4.6	< 10	< 10	4.2	< 10	0.7	0.066	0.001	0.7
742297	141	< 5	< 5	< 3.0	8.4	< 30	1080	< 10	< 20	2.7	< 3	< 10	10	0.006	4.3	20	< 10	3.7	< 10	0.6	0.061	0.003	1.2
742298	144	< 5	< 5	3.2	7.8	< 30	810	< 10	< 20	3.7	< 3	< 10	10	0.017	3.8	< 10	< 10	3.2	< 10	1.0	0.122	< 0.001	1.5
742299	94	< 5	< 5	< 3.0	9.0	< 30	1610	< 10	< 20	1.3	4	< 10	10	< 0.001	4.3	10	< 10	3.4	< 10	1.0	0.108	0.001	1.7
742300D	87	< 5	< 5	< 3.0	8.6	< 30	1250	< 10	< 20	1.2	7	< 10	20	< 0.001	4.3	< 10	< 10	1.9	10	1.0	0.110	0.001	1.7
742301	14	< 5	< 5	< 3.0	8.3	< 30	2130	< 10	< 20	1.1	18	< 10	< 10	0.003	4.1	20	< 10	3.6	< 10	0.7	0.083	< 0.001	1.2
742302	23	< 5	< 5	< 3.0	8.4	< 30	2260	< 10	< 20	0.7	10	10	10	0.004	4.3	10	< 10	3.7	< 10	0.7	0.071	0.001	1.3
742303	64	< 5	< 5	< 3.0	8.5	< 30	900	< 10	< 20	0.8	4	10	20	0.006	2.9	10	< 10	3.1	< 10	0.7	0.079	0.001	2.2
742304	177	< 5	< 5	< 3.0	9.3	< 30	740	< 10	< 20	0.7	5	10	10	0.002	3.9	10	< 10	3.5	< 10	0.7	0.067	< 0.001	2.2
742305	83	< 5	< 5	< 3.0	9.2	< 30	890	< 10	< 20	0.9	4	10	< 10	0.002	4.2	20	< 10	3.5	< 10	0.8	0.068	< 0.001	2.3
742306	18	< 5	< 5	< 3.0	9.1	< 30	1000	< 10	< 20	0.7	9	< 10	< 10	0.006	4.2	20	< 10	3.5	< 10	0.7	0.071	< 0.001	2.2
742307	15	< 5	< 5	< 3.0	9.0	< 30	1070	< 10	< 20	0.9	< 3	10	10	0.003	4.3	20	< 10	2.0	< 10	0.8	0.069	< 0.001	1.6
742308	15	< 5	< 5	< 3.0	9.4	< 30	960	< 10	< 20	0.9	< 3	< 10	20	0.002	4.4	10	< 10	3.7	< 10	0.7	0.070	< 0.001	1.8
742309	19	< 5	< 5	< 3.0	8.6	< 30	950	< 10	< 20	0.4	7	< 10	20	0.002	4.4	20	< 10	4.4	< 10	0.6	0.035	0.002	0.5
742310	121	13	< 5	< 3.0	8.9	< 30	100	< 10	< 20	2.1	< 3	20	20	0.384	4.0	20	< 10	1.2	< 10	1.7	0.033	0.009	2.4
742311	50	< 5	< 5	< 3.0	8.4	< 30	830	< 10	< 20	0.7	8	< 10	10	0.001	4.7	10	10	3.7	< 10	0.7	0.062	< 0.001	2.1

Results

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Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%								
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742312	49	< 5	< 5	< 3.0	9.1	< 30	990	< 10	< 20	0.8	< 3	10	< 10	0.003	5.4	10	< 10	3.7	< 10	0.7	0.071	< 0.001	2.2
742313	32	< 5	< 5	< 3.0	8.6	< 30	1060	< 10	< 20	0.8	39	10	< 10	0.002	4.3	10	< 10	4.0	< 10	0.8	0.068	< 0.001	1.6
742314	< 2	< 5	< 5	< 3.0	8.5	< 30	2350	< 10	< 20	2.0	4	< 10	20	0.002	3.4	20	< 10	4.3	< 10	0.9	0.190	< 0.001	2.5
742315	4	< 5	< 5	< 3.0	8.7	< 30	3000	< 10	< 20	1.6	< 3	< 10	20	0.003	3.6	< 10	< 10	4.6	< 10	1.0	0.186	< 0.001	2.1
742316	7	< 5	< 5	< 3.0	8.4	< 30	2740	< 10	< 20	1.5	< 3	< 10	20	0.002	3.6	10	< 10	4.7	< 10	1.0	0.183	< 0.001	2.1
742317	13	< 5	< 5	< 3.0	8.9	< 30	3310	< 10	< 20	1.4	< 3	< 10	20	0.003	4.3	10	< 10	5.0	10	1.0	0.178	< 0.001	1.9
742318	4	< 5	< 5	< 3.0	8.7	< 30	2670	< 10	< 20	1.8	< 3	< 10	30	0.003	3.5	10	< 10	4.6	< 10	0.9	0.204	< 0.001	2.0
742319	4	< 5	< 5	< 3.0	8.2	< 30	1770	< 10	< 20	1.9	< 3	10	30	0.003	3.6	20	< 10	0.8	< 10	1.1	0.234	< 0.001	1.6
742320D	3	< 5	< 5	< 3.0	8.3	< 30	3290	< 10	< 20	1.9	< 3	< 10	20	0.005	3.7	10	< 10	4.9	< 10	1.1	0.230	< 0.001	1.6
742321	< 2	< 5	< 5	< 3.0	8.0	< 30	3670	< 10	< 20	2.3	5	< 10	20	0.003	3.3	20	< 10	4.6	< 10	1.0	0.199	< 0.001	2.2
742322	2	< 5	< 5	< 3.0	8.0	< 30	2390	< 10	< 20	1.7	< 3	< 10	20	0.003	3.4	10	< 10	4.3	< 10	1.0	0.198	< 0.001	2.1
742323	4	< 5	< 5	< 3.0	8.5	< 30	1950	< 10	< 20	1.5	< 3	< 10	20	0.005	3.5	20	< 10	3.9	< 10	0.8	0.149	< 0.001	2.3
742324	7	< 5	< 5	< 3.0	8.4	< 30	1850	< 10	< 20	2.0	< 3	10	10	0.004	3.5	10	< 10	3.8	< 10	0.9	0.178	< 0.001	2.3
742325	9	< 5	< 5	< 3.0	8.7	< 30	3570	< 10	< 20	2.9	6	30	10	0.002	5.6	20	< 10	3.5	< 10	1.0	0.249	< 0.001	1.7
742326	14	< 5	< 5	< 3.0	8.4	< 30	1360	< 10	< 20	2.4	89	< 10	10	0.007	3.1	10	< 10	1.5	< 10	1.2	0.263	< 0.001	1.4
742327	20	< 5	< 5	< 3.0	8.7	< 30	1350	< 10	< 20	4.0	205	< 10	20	0.006	4.0	10	< 10	3.5	< 10	1.0	0.471	< 0.001	1.9
742328	5	< 5	< 5	< 3.0	7.2	< 30	340	< 10	< 20	0.4	< 3	< 10	20	< 0.001	1.3	20	< 10	4.8	10	0.1	0.029	< 0.001	2.8
742329	75	< 5	< 5	< 3.0	8.4	< 30	970	< 10	< 20	0.8	< 3	10	10	0.002	4.3	30	< 10	3.9	< 10	0.7	0.074	0.001	1.2
742330	247	< 5	< 5	< 3.0	7.6	< 30	1570	< 10	< 20	2.1	< 3	20	100	0.183	4.6	10	< 10	4.1	10	1.0	0.044	0.017	1.0
742331	50	< 5	< 5	< 3.0	8.7	< 30	750	< 10	< 20	0.6	10	10	10	0.016	4.2	20	< 10	3.4	< 10	0.8	0.081	< 0.001	2.0
742332	26	< 5	< 5	< 3.0	9.1	< 30	830	< 10	< 20	0.7	< 3	< 10	10	0.001	4.7	20	< 10	3.5	< 10	0.8	0.073	< 0.001	2.1
742333	18	< 5	< 5	< 3.0	8.9	< 30	1090	< 10	< 20	0.9	< 3	< 10	10	0.002	4.5	10	< 10	3.4	< 10	0.7	0.070	< 0.001	2.4
742334	59	< 5	< 5	< 3.0	9.3	< 30	770	< 10	< 20	0.7	22	< 10	10	0.002	4.8	20	< 10	3.5	< 10	0.7	0.063	0.001	2.0
742335	73	< 5	< 5	< 3.0	9.4	< 30	750	< 10	< 20	0.8	4	< 10	< 10	0.004	4.7	20	< 10	3.5	< 10	0.8	0.083	< 0.001	1.9
742336	50	< 5	< 5	< 3.0	8.7	< 30	710	< 10	< 20	0.8	4	< 10	60	0.002	5.5	20	< 10	3.0	< 10	0.8	0.085	0.001	2.3
742337	46	< 5	< 5	< 3.0	8.7	< 30	1080	< 10	< 20	1.3	5	< 10	20	0.003	5.1	10	< 10	2.8	10	1.1	0.102	< 0.001	2.3
742338	30	< 5	< 5	< 3.0	8.6	< 30	1230	< 10	< 20	2.7	13	10	10	0.021	4.7	20	< 10	2.7	10	1.2	0.139	0.002	2.5
742339	34	< 5	< 5	< 3.0	8.4	< 30	3420	< 10	< 20	1.5	16	< 10	20	0.003	3.8	20	< 10	3.3	< 10	1.1	0.118	< 0.001	1.8
742340D	36	< 5	< 5	< 3.0	8.7	< 30	3730	< 10	< 20	1.5	16	< 10	< 10	0.003	4.2	< 10	< 10	3.3	< 10	1.1	0.115	< 0.001	1.8
742341	56	< 5	< 5	< 3.0	9.6	< 30	1750	< 10	< 20	0.7	< 3	< 10	10	< 0.001	4.8	20	< 10	3.7	< 10	0.9	0.092	< 0.001	1.3
742342	179	< 5	< 5	< 3.0	9.2	< 30	3610	< 10	< 20	0.7	8	10	10	0.002	4.8	20	< 10	4.1	< 10	0.7	0.053	0.001	0.8
742343	109	< 5	< 5	< 3.0	8.8	< 30	820	< 10	< 20	1.1	9	< 10	10	0.003	5.5	10	< 10	3.2	< 10	1.0	0.106	< 0.001	1.6
742344	197	< 5	< 5	< 3.0	7.1	< 30	590	< 10	< 20	0.8	5	< 10	80	0.005	4.4	10	< 10	1.0	< 10	0.6	0.072	0.003	0.8
742345	225	< 5	< 5	3.5	8.7	< 30	3370	< 10	< 20	0.7	5	< 10	20	0.005	4.7	20	< 10	3.9	< 10	0.7	0.089	0.002	0.7
742346	152	< 5	< 5	6.5	8.9	< 30	3880	< 10	< 20	0.5	7	< 10	10	0.010	4.5	10	< 10	4.0	< 10	0.7	0.065	0.005	0.4
742347	110	< 5	< 5	< 3.0	8.7	< 30	3530	< 10	< 20	1.4	8	< 10	10	0.006	4.9	10	< 10	3.1	< 10	0.9	0.118	< 0.001	1.7
742348	100	< 5	< 5	< 3.0	7.9	< 30	770	< 10	< 20	2.4	4	< 10	10	0.006	4.8	10	< 10	3.4	< 10	0.7	0.113	< 0.001	1.4
742349	111	< 5	< 5	< 3.0	9.0	< 30	1460	< 10	< 20	1.1	< 3	10	20	0.007	5.1	20	< 10	3.4	< 10	0.8	0.111	0.001	1.4
742350	69	18	8	< 3.0	8.6	< 30	200	< 10	< 20	2.1	< 3	10	40	0.179	3.7	20	< 10	1.4	< 10	1.6	0.040	0.005	2.2
742351	150	< 5	< 5	< 3.0	9.6	< 30	780	< 10	< 20	1.5	< 3	< 10	10	0.005	5.4	20	10	2.2	< 10	0.7	0.118	< 0.001	1.5
742352	69	< 5	< 5	< 3.0	9.3	< 30	760	< 10	< 20	1.6	< 3	10	10	0.015	5.7	20	< 10	3.3	10	1.0	0.168	< 0.001	1.5
742353	95	< 5	< 5	< 3.0	8.2	< 30	580	< 10	< 20	1.8	< 3	< 10	20	0.009	4.6	10	< 10	2.9	< 10	0.9	0.158	< 0.001	1.9

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Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%								
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
742354	97	< 5	< 5	< 3.0	8.6	< 30	1460	< 10	< 20	1.6	4	< 10	20	0.009	4.7	20	< 10	2.9	< 10	0.9	0.129	< 0.001	1.8	
742355	30	< 5	< 5	< 3.0	7.9	< 30	720	< 10	< 20	2.0	< 3	10	20	0.002	4.2	10	< 10	0.5	< 10	0.8	0.138	< 0.001	1.4	
742356	25	< 5	< 5	< 3.0	7.9	< 30	700	< 10	< 20	6.0	5	< 10	10	0.008	4.0	10	10	3.1	< 10	0.8	0.162	< 0.001	0.8	
742357	16	< 5	< 5	< 3.0	8.7	< 30	760	< 10	< 20	3.2	< 3	< 10	20	0.006	4.1	20	< 10	3.1	< 10	0.7	0.140	< 0.001	1.6	
742358	34	< 5	< 5	< 3.0	9.2	< 30	910	< 10	< 20	3.4	< 3	10	30	0.003	3.9	20	< 10	3.0	< 10	0.8	0.202	< 0.001	2.2	
742359	86	< 5	< 5	< 3.0	9.5	< 30	1750	< 10	< 20	2.5	< 3	< 10	10	0.007	4.4	20	< 10	3.5	< 10	0.9	0.189	< 0.001	1.9	
742360D	90	< 5	< 5	< 3.0	9.4	< 30	1740	< 10	< 20	2.4	< 3	< 10	10	0.007	4.3	20	< 10	3.4	< 10	0.9	0.188	< 0.001	1.8	
742361	23	5	< 5	< 3.0	9.0	< 30	2270	< 10	< 20	1.4	< 3	10	10	< 0.001	4.0	20	< 10	3.5	< 10	1.1	0.181	< 0.001	1.7	
742362	38	< 5	< 5	< 3.0	7.7	< 30	2020	< 10	< 20	1.8	< 3	< 10	30	0.004	4.0	20	< 10	3.5	< 10	0.9	0.150	< 0.001	1.0	
742363	53	< 5	< 5	< 3.0	8.8	< 30	840	< 10	< 20	1.9	20	< 10	20	0.007	4.2	10	< 10	3.4	< 10	1.0	0.171	< 0.001	1.4	
742364	19	< 5	< 5	< 3.0	9.4	< 30	740	< 10	< 20	2.1	6	< 10	20	< 0.001	3.7	20	< 10	3.3	< 10	1.2	0.204	< 0.001	2.0	
742365	19	< 5	< 5	< 3.0	8.9	< 30	850	< 10	< 20	2.8	< 3	< 10	10	0.001	3.8	20	< 10	3.2	< 10	1.2	0.213	< 0.001	1.8	
742366	46	19	18	< 3.0	8.7	< 30	830	< 10	< 20	3.9	< 3	< 10	20	0.004	3.5	30	< 10	3.1	< 10	1.0	0.227	< 0.001	1.6	
742367	10	< 5	< 5	< 3.0	8.6	< 30	1100	< 10	< 20	3.4	< 3	< 10	20	0.018	3.6	20	< 10	2.8	< 10	0.9	0.239	< 0.001	1.9	
742368	14	< 5	< 5	< 3.0	8.5	< 30	1350	< 10	< 20	3.2	< 3	< 10	20	0.053	4.1	20	< 10	3.3	< 10	0.9	0.199	< 0.001	1.6	

Results

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
742186	< 0.001	0.13	< 30	1.1	< 50	< 40	220	< 20	0.4	< 50	< 100	140	< 50	20	0.033	90	0.002	1	0.140	18.2	0.5	3	0.060
742187	< 0.001	0.13	30	0.7	< 50	< 40	290	70	0.4	< 50	< 100	150	< 50	20	0.038	90	0.003	< 1	0.160	19.1	0.6	3	0.068
742188	< 0.001	0.13	40	1.6	< 50	< 40	290	70	0.4	< 50	< 100	140	< 50	20	0.038	90	0.002	2	0.160	20.4	0.8	3	0.053
742189	0.001	0.15	30	2.7	< 50	< 40	420	70	0.4	< 50	< 100	150	< 50	20	0.034	90	0.007	3	0.160	13.7	0.6	3	0.057
742190	0.001	0.06	60	0.7	< 50	< 40	180	< 20	0.4	< 50	< 100	230	< 50	20	0.026	< 50	0.079	< 1	0.060	6.5	0.2	2	0.238
742191	< 0.001	0.14	40	2.7	< 50	< 40	430	70	0.4	< 50	< 100	150	< 50	20	0.053	90	0.004	3	0.160	14.9	0.6	2	0.058
742192	< 0.001	0.15	60	1.5	< 50	< 40	420	40	0.4	< 50	< 100	150	< 50	20	0.060	90	0.003	2	0.160	29.3	1.0	3	0.064
742193	< 0.001	0.14	< 30	2.8	< 50	< 40	400	30	0.4	< 50	< 100	150	< 50	20	0.053	90	0.003	3	0.150	19.8	0.7	2	0.056
742194	< 0.001	0.12	110	3.8	< 50	< 40	60	< 20	0.4	< 50	< 100	140	< 50	20	0.053	90	0.003	4	0.120	10.4	0.6	3	0.036
742195	< 0.001	0.11	40	3.1	< 50	< 40	130	< 20	0.4	< 50	< 100	150	< 50	20	0.063	80	0.005	3	0.120	11.5	0.6	2	0.056
742196	< 0.001	0.11	70	3.9	< 50	< 40	170	40	0.4	< 50	< 100	140	< 50	20	0.044	90	0.003	4	0.110	6.7	0.5	1	0.048
742197	< 0.001	0.10	50	2.5	< 50	< 40	330	< 20	0.4	< 50	< 100	130	< 50	20	0.031	80	0.003	3	0.110	12.9	0.4	2	0.082
742198	< 0.001	0.09	< 30	3.4	< 50	< 40	460	< 20	0.3	< 50	< 100	120	< 50	20	0.028	80	0.004	3	0.100	11.3	0.4	2	0.060
742199	< 0.001	0.10	50	2.6	< 50	< 40	460	60	0.3	< 50	< 100	130	< 50	20	0.041	80	0.009	3	0.110	17.4	0.5	3	0.084
742200D	< 0.001	0.09	40	2.3	< 50	< 40	460	60	0.3	< 50	< 100	120	< 50	20	0.041	80	0.010	3	0.110	17.0	0.5	3	0.082
742201	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	240	< 20	< 0.1	< 50	< 100	< 20	< 50	10	0.003	120	0.008	< 1	0.010	2.4	0.4	2	0.075
742202	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	260	< 20	< 0.1	< 50	< 100	< 20	< 50	10	0.003	120	0.007	< 1	0.010	2.3	0.3	1	0.086
742203	< 0.001	0.10	40	1.9	< 50	< 40	350	< 20	0.4	< 50	< 100	130	< 50	20	0.036	80	0.004	2	0.110	15.1	0.6	2	0.076
742204	< 0.001	0.09	< 30	4.2	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	20	0.022	90	0.002	4	0.090	4.7	0.3	1	0.036
742205	< 0.001	0.10	< 30	3.5	< 50	< 40	370	< 20	0.4	< 50	< 100	140	< 50	20	0.032	90	0.003	4	0.110	12.0	0.8	3	0.064
742206	< 0.001	0.04	< 30	0.2	< 50	< 40	310	< 20	0.2	< 50	< 100	50	< 50	20	0.015	160	0.015	< 1	0.050	9.1	0.3	1	0.131
742207	< 0.001	0.04	< 30	0.1	< 50	< 40	340	< 20	0.2	< 50	< 100	50	< 50	20	0.015	170	0.016	< 1	0.050	7.9	0.4	2	0.125
742208	< 0.001	0.09	40	2.5	< 50	< 40	430	< 20	0.3	< 50	< 100	130	< 50	20	0.032	90	0.004	3	0.110	13.3	0.7	2	0.078
742209	< 0.001	0.09	90	3.2	< 50	< 40	220	< 20	0.3	< 50	< 100	120	< 50	20	0.164	80	0.002	4	0.110	9.5	0.5	2	0.046
742210	0.002	0.07	< 30	1.7	< 50	< 40	220	< 20	0.3	< 50	< 100	110	< 50	20	0.008	< 50	0.042	2	0.080	9.1	0.6	11	0.091
742211	< 0.001	0.11	50	4.1	< 50	< 40	160	100	0.4	< 50	< 100	130	< 50	20	0.064	90	0.001	4	0.100	7.7	0.3	< 1	0.038
742212	< 0.001	0.10	70	4.4	< 50	< 40	90	< 20	0.4	< 50	< 100	150	< 50	20	0.199	90	0.003	5	0.105	6.1	0.3	1	0.038
742213	< 0.001	0.10	40	4.9	< 50	< 40	60	< 20	0.4	< 50	< 100	150	< 50	20	0.025	90	0.003	4	0.100	6.1	0.3	1	0.035
742214	< 0.001	0.10	40	2.5	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	20	0.039	90	0.004	3	0.120	12.0	0.5	1	0.057
742215	< 0.001	0.10	40	4.1	< 50	< 40	60	< 20	0.4	< 50	< 100	130	< 50	20	0.007	90	0.002	4	0.100	1.1	0.3	< 1	0.028
742216	< 0.001	0.10	50	3.6	< 50	< 40	80	90	0.3	< 50	< 100	130	< 50	20	0.037	90	0.005	4	0.110	8.5	0.4	1	0.045
742217	< 0.001	0.10	< 30	4.8	< 50	< 40	50	< 20	0.4	< 50	< 100	140	< 50	20	0.025	90	0.004	5	0.110	4.2	0.4	1	0.036
742218	< 0.001	0.08	50	2.1	< 50	< 40	280	70	0.3	< 50	< 100	120	< 50	20	0.059	80	0.026	3	0.120	11.1	0.4	2	0.106
742219	< 0.001	0.09	140	2.5	< 50	< 40	200	< 20	0.3	< 50	< 100	120	< 50	20	0.071	80	0.008	3	0.110	10.4	0.5	1	0.079
742220D	< 0.001	0.10	150	2.7	< 50	< 40	220	< 20	0.3	< 50	< 100	130	< 50	20	0.076	90	0.008	3	0.110	11.3	0.5	1	0.083
742221	< 0.001	0.11	50	4.3	< 50	< 40	50	20	0.4	< 50	< 100	150	< 50	20	0.047	90	0.003	4	0.110	7.7	0.4	< 1	0.039
742222	< 0.001	0.11	80	3.6	< 50	< 40	70	40	0.4	< 50	< 100	150	< 50	20	0.052	90	0.004	4	0.110	11.3	0.4	< 1	0.043
742223	< 0.001	0.11	< 30	3.6	< 50	< 40	80	< 20	0.4	< 50	< 100	130	< 50	20	0.017	90	0.002	3	0.090	4.6	0.2	< 1	0.030
742224	< 0.001	0.10	40	3.5	< 50	< 40	280	40	0.4	< 50	< 100	140	< 50	20	0.038	90	0.005	4	0.120	10.7	0.4	1	0.056
742225	< 0.001	0.11	80	3.9	< 50	< 40	140	< 20	0.4	< 50	< 100	140	< 50	20	0.192	90	0.002	4	0.110	10.8	0.4	< 1	0.041
742226	< 0.001	0.11	50	3.4	< 50	< 40	100	< 20	0.4	< 50	< 100	150	< 50	20	0.104	90	0.003	3	0.110	10.3	0.4	2	0.049
742227	< 0.001	0.10	60	3.5	< 50	< 40	160	80	0.4	< 50	< 100	140	< 50	20	0.056	90	0.004	3	0.110	8.5	0.4	1	0.064

Results

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742228	< 0.001	0.10	< 30	4.9	< 50	< 40	90	< 20	0.4	< 50	< 100	150	< 50	20	0.011	100	0.002	5	0.100	2.8	0.3	1	0.040
742229	< 0.001	0.10	< 30	5.2	< 50	< 40	140	< 20	0.4	< 50	< 100	140	< 50	20	0.057	90	0.002	6	0.110	6.0	0.4	< 1	0.045
742230	0.003	0.14	< 30	1.5	< 50	< 40	390	< 20	0.5	< 50	< 100	240	< 50	20	0.011	70	0.046	1	0.150	16.5	0.5	9	0.156
742231	< 0.001	0.10	80	3.9	< 50	< 40	480	< 20	0.4	< 50	< 100	130	< 50	20	0.033	80	0.158	4	0.110	12.6	0.5	2	0.070
742232	< 0.001	0.10	60	4.2	< 50	< 40	430	< 20	0.4	< 50	< 100	130	< 50	20	0.028	80	0.143	4	0.100	10.3	0.4	2	0.068
742233	< 0.001	0.10	60	4.4	< 50	< 40	420	60	0.3	< 50	< 100	130	< 50	20	0.035	80	0.127	5	0.110	10.6	0.4	3	0.063
742234	< 0.001	0.09	70	3.6	< 50	< 40	390	60	0.3	< 50	< 100	130	< 50	20	0.055	80	0.079	4	0.110	11.9	0.3	2	0.073
742235	< 0.001	0.10	60	3.4	< 50	< 40	410	< 20	0.3	< 50	< 100	130	< 50	20	0.020	80	0.097	3	0.110	10.5	0.3	2	0.066
742236	< 0.001	0.10	80	6.3	< 50	< 40	290	< 20	0.3	< 50	< 100	120	< 50	20	0.018	80	0.066	7	0.100	8.1	0.3	2	0.058
742237	< 0.001	0.10	100	4.2	< 50	< 40	200	< 20	0.3	< 50	< 100	130	< 50	20	0.021	80	0.027	5	0.110	8.5	0.4	3	0.069
742238	< 0.001	0.10	30	6.7	< 50	< 40	200	< 20	0.3	< 50	< 100	130	< 50	20	0.012	70	0.013	6	0.100	7.2	0.3	3	0.060
742239	< 0.001	0.10	< 30	2.2	< 50	< 40	260	< 20	0.4	< 50	< 100	130	< 50	20	0.013	80	0.082	2	0.110	8.5	0.4	2	0.084
742240D	< 0.001	0.10	< 30	2.3	< 50	< 40	270	20	0.4	< 50	< 100	130	< 50	20	0.014	80	0.083	2	0.110	8.7	0.4	3	0.086
742241	0.001	0.07	< 30	0.4	< 50	< 40	380	< 20	0.3	< 50	< 100	90	< 50	20	0.008	90	0.134	< 1	0.070	6.3	0.5	1	0.103
742242	< 0.001	0.06	< 30	0.8	< 50	< 40	330	< 20	0.3	< 50	< 100	100	< 50	20	0.008	90	0.157	< 1	0.070	6.8	0.4	< 1	0.088
742243	< 0.001	0.05	< 30	< 0.1	< 50	< 40	250	< 20	0.2	< 50	< 100	80	< 50	20	0.009	80	0.063	< 1	0.060	5.8	0.4	1	0.082
742244	< 0.001	0.05	80	0.1	< 50	< 40	380	90	0.2	< 50	< 100	90	< 50	20	0.042	80	0.151	< 1	0.080	8.1	0.6	2	0.111
742245	< 0.001	0.06	< 30	< 0.1	< 50	< 40	330	< 20	0.2	< 50	< 100	80	< 50	20	0.009	80	0.102	< 1	0.060	6.1	0.5	< 1	0.090
742246	0.001	0.05	< 30	< 0.1	< 50	< 40	290	< 20	0.2	< 50	< 100	70	< 50	20	0.005	70	0.092	< 1	0.060	5.2	0.6	1	0.079
742247	< 0.001	0.06	< 30	< 0.1	< 50	< 40	300	< 20	0.3	< 50	< 100	80	< 50	20	0.008	80	0.068	< 1	0.060	5.9	0.5	1	0.085
742248	< 0.001	0.06	< 30	< 0.1	< 50	< 40	300	< 20	0.3	< 50	< 100	80	< 50	20	0.006	80	0.095	< 1	0.060	5.4	0.4	< 1	0.079
742249	< 0.001	0.05	< 30	< 0.1	< 50	< 40	310	< 20	0.2	< 50	< 100	80	< 50	20	0.007	70	0.063	< 1	0.060	5.3	0.4	< 1	0.082
742250	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	100	< 20	< 0.1	< 50	< 100	< 20	< 50	20	0.003	60	0.015	< 1	0.010	7.6	0.5	< 1	0.113
742251	< 0.001	0.05	< 30	< 0.1	< 50	< 40	380	< 20	0.2	< 50	< 100	80	< 50	20	0.006	50	0.110	< 1	0.060	4.7	0.5	< 1	0.082
742252	< 0.001	0.05	< 30	< 0.1	< 50	< 40	320	< 20	0.3	< 50	< 100	90	< 50	10	0.005	80	0.114	< 1	0.060	5.0	0.5	< 1	0.085
742253	< 0.001	0.05	< 30	< 0.1	< 50	< 40	350	< 20	0.3	< 50	< 100	80	< 50	20	0.005	80	0.078	< 1	0.060	5.3	0.5	1	0.101
742254	< 0.001	0.06	< 30	< 0.1	< 50	< 40	360	< 20	0.2	< 50	< 100	80	< 50	20	0.005	80	0.112	< 1	0.060	4.8	0.6	1	0.089
742255	< 0.001	0.05	< 30	< 0.1	< 50	< 40	340	< 20	0.2	< 50	< 100	80	< 50	20	0.005	80	0.143	< 1	0.060	4.5	0.6	1	0.101
742256	< 0.001	0.05	< 30	< 0.1	< 50	< 40	350	< 20	0.2	< 50	< 100	70	< 50	20	0.006	80	0.149	< 1	0.060	4.8	0.5	1	0.090
742257	< 0.001	0.06	< 30	< 0.1	< 50	< 40	350	< 20	0.2	< 50	< 100	80	< 50	20	0.006	80	0.148	< 1	0.060	4.4	0.6	2	0.092
742258	< 0.001	0.06	< 30	< 0.1	< 50	< 40	370	< 20	0.2	< 50	< 100	70	< 50	20	0.008	80	0.151	< 1	0.060	4.8	0.5	1	0.084
742259	< 0.001	0.06	< 30	< 0.1	< 50	< 40	370	< 20	0.2	< 50	< 100	60	< 50	20	0.009	70	0.143	< 1	0.060	5.2	0.5	< 1	0.098
742260D	< 0.001	0.06	< 30	< 0.1	< 50	< 40	390	20	0.2	< 50	< 100	80	< 50	20	0.008	80	0.147	< 1	0.060	5.2	0.5	2	0.100
742261	< 0.001	0.06	< 30	0.1	< 50	< 40	400	< 20	0.2	< 50	< 100	80	< 50	20	0.009	80	0.152	< 1	0.060	5.6	0.4	1	0.111
742262	< 0.001	0.06	< 30	0.1	< 50	< 40	330	< 20	0.2	< 50	< 100	90	< 50	20	0.009	80	0.170	< 1	0.070	5.4	0.7	2	0.123
742263	< 0.001	0.09	< 30	3.1	< 50	< 40	530	< 20	0.3	< 50	< 100	120	< 50	20	0.008	70	0.221	3	0.120	11.0	0.5	3	0.081
742264	< 0.001	0.08	40	2.1	< 50	< 40	300	< 20	0.3	< 50	< 100	120	< 50	20	0.033	70	0.151	2	0.110	9.5	0.4	4	0.082
742265	< 0.001	0.09	< 30	5.5	< 50	< 40	250	30	0.3	< 50	< 100	120	< 50	20	0.008	80	0.042	5	0.100	5.9	0.3	2	0.062
742266	< 0.001	0.10	< 30	6.1	< 50	< 40	320	< 20	0.3	< 50	< 100	110	< 50	20	0.010	70	0.004	6	0.100	4.2	0.3	1	0.053
742267	< 0.001	0.09	< 30	5.9	< 50	< 40	350	< 20	0.3	< 50	< 100	110	< 50	20	0.019	70	0.004	5	0.090	4.9	0.3	< 1	0.053
742268	< 0.001	0.09	< 30	6.3	< 50	< 40	380	< 20	0.3	< 50	< 100	110	< 50	20	0.019	70	0.003	6	0.100	5.1	0.4	< 1	0.058
742269	< 0.001	0.10	< 30	8.1	< 50	< 40	390	30	0.3	< 50	< 100	100	< 50	20	0.003	70	0.001	8	0.100	2.3	0.4	< 1	0.037

Results

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742270	0.003	0.12	< 30	2.4	< 50	< 40	300	< 20	0.6	< 50	< 100	250	< 50	20	0.007	70	0.163	3	0.110	8.7	0.6	2	0.112
742271	< 0.001	0.08	< 30	7.0	< 50	< 40	390	< 20	0.3	< 50	< 100	100	< 50	10	0.003	70	0.001	7	0.070	2.1	0.2	< 1	0.032
742272	< 0.001	0.09	< 30	8.3	< 50	< 40	470	< 20	0.3	< 50	< 100	110	< 50	20	0.007	70	0.001	9	0.090	2.8	0.4	< 1	0.042
742273	< 0.001	0.09	< 30	6.8	< 50	< 40	380	< 20	0.3	< 50	< 100	110	< 50	20	0.002	70	0.001	7	0.090	3.4	0.3	< 1	0.051
742274	< 0.001	0.08	< 30	6.1	< 50	< 40	350	< 20	0.3	< 50	< 100	100	< 50	20	0.003	70	0.001	6	0.080	1.0	0.3	< 1	0.042
742275	< 0.001	0.09	< 30	6.2	< 50	< 40	320	< 20	0.3	< 50	< 100	110	< 50	20	0.003	70	0.002	6	0.100	3.3	0.2	< 1	0.039
742276	< 0.001	0.09	< 30	4.8	< 50	< 40	150	< 20	0.3	< 50	< 100	110	< 50	20	0.005	80	0.002	5	0.080	1.5	0.3	< 1	0.034
742277	< 0.001	0.10	< 30	4.3	< 50	< 40	150	< 20	0.3	< 50	< 100	110	< 50	20	0.012	80	0.001	4	0.100	5.3	0.4	< 1	0.034
742278	< 0.001	0.10	< 30	3.9	< 50	< 40	60	< 20	0.3	< 50	< 100	120	< 50	20	0.007	80	0.002	4	0.100	4.3	0.4	< 1	0.039
742279	< 0.001	0.10	40	4.6	< 50	< 40	100	30	0.3	< 50	< 100	110	< 50	20	0.022	80	0.002	5	0.110	4.7	0.3	< 1	0.049
742280D	< 0.001	0.11	40	4.6	< 50	< 40	100	< 20	0.3	< 50	< 100	110	< 50	20	0.023	80	0.002	5	0.120	4.9	0.4	1	0.053
742281	0.008	0.09	30	2.9	< 50	< 40	140	20	0.4	< 50	< 100	170	< 50	20	0.035	70	0.051	2	0.080	19.0	0.5	1	0.323
742282	< 0.001	0.10	120	5.2	< 50	< 40	70	50	0.3	< 50	< 100	120	< 50	20	0.038	80	0.004	6	0.110	3.2	0.4	< 1	0.052
742283	< 0.001	0.09	110	6.0	< 50	< 40	190	< 20	0.3	< 50	< 100	120	< 50	20	0.038	70	0.003	6	0.090	3.8	0.3	2	0.052
742284	0.003	0.08	120	4.1	< 50	< 40	140	50	0.3	< 50	< 100	120	< 50	20	0.058	60	0.003	5	0.100	15.2	0.6	< 1	0.108
742285	< 0.001	0.10	140	4.7	< 50	< 40	240	< 20	0.3	< 50	< 100	110	< 50	20	0.098	80	0.002	5	0.110	4.9	0.3	< 1	0.057
742286	0.002	0.08	100	3.7	< 50	< 40	110	50	0.3	< 50	< 100	120	< 50	20	0.039	70	0.002	4	0.100	13.0	0.4	< 1	0.058
742287	0.002	0.09	110	3.7	< 50	< 40	120	50	0.3	< 50	< 100	130	< 50	20	0.051	80	0.002	4	0.100	12.0	0.5	< 1	0.053
742288	< 0.001	0.10	60	4.2	< 50	< 40	190	50	0.3	< 50	< 100	120	< 50	20	0.045	80	0.004	4	0.100	7.1	0.3	1	0.058
742289	0.013	0.06	< 30	0.4	< 50	40	210	< 20	0.3	< 50	< 100	140	< 50	30	0.032	< 50	0.024	< 1	0.060	53.1	0.9	2	0.503
742290	0.004	0.05	< 30	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.005	70	0.136	< 1	0.050	9.1	0.3	7	0.136
742291	< 0.001	0.09	60	3.9	< 50	< 40	130	< 20	0.3	< 50	< 100	120	< 50	20	0.058	80	0.003	4	0.100	6.5	0.4	< 1	0.060
742292	< 0.001	0.10	100	4.2	< 50	< 40	100	60	0.4	< 50	< 100	130	< 50	20	0.037	90	0.003	5	0.110	3.0	0.3	< 1	0.050
742293	0.004	0.08	50	3.7	< 50	< 40	100	< 20	0.3	< 50	< 100	140	< 50	20	0.026	70	0.003	4	0.090	20.4	0.7	2	0.098
742294	0.004	0.08	140	3.2	< 50	< 40	150	60	0.4	< 50	< 100	140	< 50	20	0.053	70	0.003	3	0.090	22.9	0.7	< 1	0.091
742295	< 0.001	0.08	180	3.7	< 50	< 40	110	< 20	0.3	< 50	< 100	110	< 50	20	0.059	70	0.003	4	0.090	2.2	0.2	< 1	0.041
742296	< 0.001	0.09	70	4.2	< 50	< 40	60	80	0.3	< 50	< 100	140	< 50	20	0.074	80	0.003	4	0.090	2.7	0.4	< 1	0.042
742297	< 0.001	0.09	60	5.5	< 50	< 40	280	< 20	0.3	< 50	< 100	120	< 50	20	0.032	70	0.003	6	0.090	2.8	0.4	< 1	0.049
742298	< 0.001	0.08	80	5.0	< 50	< 40	340	100	0.3	< 50	< 100	100	< 50	20	0.038	70	0.005	5	0.090	5.6	0.4	< 1	0.051
742299	< 0.001	0.09	90	3.4	< 50	< 40	260	< 20	0.3	< 50	< 100	100	< 50	20	0.043	70	0.003	4	0.090	5.8	0.4	2	0.050
742300D	< 0.001	0.09	80	3.4	< 50	< 40	250	110	0.3	< 50	< 100	100	< 50	20	0.042	70	0.003	3	0.090	5.6	0.4	< 1	0.045
742301	< 0.001	0.09	130	3.7	< 50	< 40	290	< 20	0.3	< 50	< 100	100	< 50	20	0.099	70	0.003	4	0.090	3.2	0.4	< 1	0.056
742302	< 0.001	0.09	80	4.1	< 50	< 40	210	30	0.3	< 50	< 100	110	< 50	20	0.083	70	0.003	4	0.100	2.2	0.4	< 1	0.058
742303	< 0.001	0.08	170	2.4	< 50	< 40	180	30	0.3	< 50	< 100	100	< 50	20	0.042	70	0.004	3	0.090	3.4	0.4	< 1	0.076
742304	< 0.001	0.09	80	3.4	< 50	< 40	150	< 20	0.3	< 50	< 100	110	< 50	20	0.035	80	0.003	4	0.100	2.4	0.4	1	0.079
742305	< 0.001	0.09	170	4.2	< 50	< 40	230	< 20	0.3	< 50	< 100	90	< 50	20	0.036	80	0.003	4	0.100	2.6	0.4	1	0.081
742306	< 0.001	0.10	100	3.8	< 50	< 40	200	30	0.3	< 50	< 100	90	< 50	20	0.059	70	0.003	4	0.090	2.8	0.3	1	0.070
742307	< 0.001	0.09	50	3.4	< 50	< 40	160	< 20	0.3	< 50	< 100	100	< 50	20	0.020	70	0.003	3	0.090	3.1	0.4	< 1	0.058
742308	< 0.001	0.10	60	3.5	< 50	< 40	130	< 20	0.3	< 50	< 100	80	< 50	20	0.019	70	0.002	3	0.090	2.7	0.4	< 1	0.054
742309	< 0.001	0.09	60	4.1	< 50	< 40	80	30	0.3	< 50	< 100	90	< 50	20	0.036	80	0.003	4	0.090	1.8	0.4	< 1	0.044
742310	0.002	0.06	< 30	1.0	< 50	< 40	160	< 20	0.4	< 50	< 100	230	< 50	20	0.010	< 50	0.049	1	0.050	3.8	0.2	< 1	0.217
742311	< 0.001	0.09	230	4.4	< 50	< 40	150	< 20	0.3	< 50	< 100	80	< 50	20	0.034	70	0.003	5	0.100	1.8	0.3	< 1	0.076

Results

Activation Laboratories Ltd.

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742312	< 0.001	0.10	100	5.3	< 50	< 40	200	< 20	0.3	< 50	< 100	90	< 50	20	0.018	70	0.003	5	0.100	2.0	0.3	2	0.084
742313	< 0.001	0.09	240	3.6	< 50	< 40	160	< 20	0.3	< 50	< 100	80	< 50	20	0.125	70	0.004	4	0.090	2.8	0.4	2	0.067
742314	< 0.001	0.08	30	0.7	< 50	< 40	370	< 20	0.3	< 50	< 100	90	< 50	20	0.029	60	0.018	< 1	0.080	7.5	0.4	3	0.100
742315	< 0.001	0.08	30	1.7	< 50	< 40	370	30	0.3	< 50	< 100	90	< 50	20	0.017	70	0.009	2	0.090	6.8	0.3	1	0.086
742316	< 0.001	0.08	70	1.8	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	20	0.026	70	0.008	2	0.090	8.3	0.3	1	0.118
742317	< 0.001	0.09	70	2.5	< 50	< 40	300	< 20	0.3	< 50	< 100	100	< 50	20	0.021	70	0.007	2	0.090	9.0	0.4	1	0.091
742318	< 0.001	0.08	80	1.4	< 50	< 40	280	< 20	0.3	< 50	< 100	90	< 50	20	0.022	60	0.006	1	0.080	7.5	0.3	1	0.090
742319	< 0.001	0.08	120	1.3	< 50	< 40	300	< 20	0.3	< 50	< 100	90	< 50	20	0.026	60	0.017	1	0.080	8.8	0.4	1	0.075
742320D	< 0.001	0.08	140	1.3	< 50	< 40	320	< 20	0.3	< 50	< 100	90	< 50	20	0.027	60	0.017	1	0.080	8.7	0.3	1	0.073
742321	< 0.001	0.08	140	0.9	< 50	< 40	430	< 20	0.3	< 50	< 100	80	< 50	20	0.034	60	0.005	< 1	0.080	8.3	0.3	< 1	0.091
742322	< 0.001	0.08	120	1.0	< 50	< 40	310	< 20	0.3	< 50	< 100	90	< 50	20	0.017	60	0.007	1	0.090	9.7	0.4	1	0.085
742323	< 0.001	0.08	< 30	1.6	< 50	< 40	290	< 20	0.3	< 50	< 100	100	< 50	20	0.014	70	0.009	2	0.090	6.7	0.3	1	0.093
742324	< 0.001	0.07	30	1.7	< 50	< 40	370	< 20	0.2	< 50	< 100	80	< 50	20	0.013	70	0.006	2	0.080	5.8	0.3	2	0.087
742325	< 0.001	0.08	170	3.6	< 50	< 40	540	60	0.3	< 50	< 100	90	< 50	20	0.039	70	0.002	4	0.090	5.9	0.5	3	0.080
742326	< 0.001	0.07	250	1.4	< 50	< 40	290	< 20	0.2	< 50	< 100	80	< 50	20	0.199	70	0.003	2	0.090	11.9	0.4	2	0.072
742327	< 0.001	0.09	660	3.1	< 50	< 40	290	< 20	0.3	< 50	< 100	90	< 50	30	0.336	70	0.001	3	0.090	2.9	0.5	3	0.090
742328	< 0.001	0.01	< 30	< 0.1	< 50	< 40	100	< 20	0.1	< 50	< 100	< 20	< 50	20	0.004	70	0.014	< 1	0.010	7.8	0.5	< 1	0.128
742329	< 0.001	0.09	< 30	4.0	< 50	< 40	130	< 20	0.3	< 50	< 100	110	< 50	20	0.018	70	0.003	4	0.090	2.6	0.4	< 1	0.051
742330	0.001	0.07	< 30	1.7	< 50	< 40	200	20	0.3	< 50	< 100	110	< 50	20	0.007	< 50	0.039	2	0.070	8.9	0.6	6	0.086
742331	< 0.001	0.09	80	3.8	< 50	< 40	120	80	0.3	< 50	< 100	120	< 50	20	0.070	70	0.003	4	0.095	4.4	0.4	< 1	0.071
742332	< 0.001	0.10	< 30	4.4	< 50	< 40	160	< 20	0.3	< 50	< 100	120	< 50	20	0.014	70	0.004	5	0.100	3.8	0.5	< 1	0.090
742333	< 0.001	0.09	40	4.1	< 50	< 40	170	< 20	0.3	< 50	< 100	110	< 50	20	0.020	70	0.003	4	0.100	3.1	0.5	1	0.086
742334	< 0.001	0.10	110	4.4	< 50	< 40	120	< 20	0.3	< 50	< 100	120	< 50	20	0.180	70	0.003	5	0.100	2.5	0.5	< 1	0.077
742335	< 0.001	0.09	80	4.1	< 50	< 40	150	30	0.4	< 50	< 100	130	< 50	20	0.046	70	0.003	4	0.100	5.0	0.6	< 1	0.059
742336	< 0.001	0.09	60	4.6	< 50	< 40	180	100	0.3	< 50	< 100	110	< 50	20	0.043	80	0.005	5	0.090	6.1	0.5	< 1	0.090
742337	< 0.001	0.10	130	3.3	< 50	< 40	290	< 20	0.3	< 50	< 100	120	< 50	20	0.039	90	0.051	3	0.110	10.0	0.5	< 1	0.077
742338	0.002	0.10	60	3.6	< 50	< 40	430	< 20	0.3	< 50	< 100	120	< 50	20	0.131	90	0.057	3	0.100	9.4	0.4	1	0.094
742339	< 0.001	0.09	150	2.7	< 50	< 40	350	< 20	0.3	< 50	< 100	120	< 50	20	0.046	90	0.011	3	0.100	8.9	0.6	< 1	0.067
742340D	< 0.001	0.09	140	2.9	< 50	< 40	360	< 20	0.3	< 50	< 100	120	< 50	20	0.046	90	0.011	3	0.100	8.8	0.6	< 1	0.066
742341	< 0.001	0.10	150	3.7	< 50	< 40	170	20	0.4	< 50	< 100	130	< 50	20	0.023	80	0.004	4	0.091	6.3	0.7	< 1	0.045
742342	< 0.001	0.09	220	4.2	< 50	< 40	210	40	0.3	< 50	< 100	130	< 50	20	0.061	80	0.004	4	0.090	4.1	0.6	< 1	0.050
742343	< 0.001	0.09	190	3.8	< 50	< 40	200	30	0.3	< 50	< 100	120	< 50	20	0.080	70	0.010	4	0.100	7.1	0.5	< 1	0.061
742344	< 0.001	0.08	170	3.5	< 50	< 40	110	50	0.3	< 50	< 100	90	< 50	20	0.041	60	0.004	4	0.100	4.6	0.5	< 1	0.051
742345	0.001	0.08	110	3.8	< 50	< 40	180	30	0.3	< 50	< 100	110	< 50	20	0.052	70	0.004	4	0.100	4.3	0.5	< 1	0.052
742346	< 0.001	0.07	180	3.3	< 50	< 40	190	100	0.3	< 50	< 100	110	< 50	10	0.060	60	0.002	3	0.070	3.3	0.5	< 1	0.042
742347	< 0.001	0.09	380	3.2	< 50	< 40	270	< 20	0.3	< 50	< 100	110	< 50	20	0.082	70	0.009	3	0.100	6.1	0.5	< 1	0.074
742348	< 0.001	0.09	120	4.5	< 50	< 40	230	70	0.3	< 50	< 100	130	< 50	20	0.054	70	0.030	5	0.090	4.6	0.4	< 1	0.051
742349	< 0.001	0.09	80	3.4	< 50	< 40	180	110	0.3	< 50	< 100	110	< 50	20	0.045	70	0.015	4	0.100	5.5	0.5	< 1	0.069
742350	0.002	0.05	50	0.7	< 50	< 40	170	< 20	0.4	< 50	< 100	220	< 50	20	0.024	< 50	0.075	< 1	0.050	6.6	0.3	< 1	0.231
742351	< 0.001	0.09	< 30	2.1	< 50	< 40	200	< 20	0.3	< 50	< 100	130	< 50	20	0.025	70	0.021	2	0.100	5.9	0.6	< 1	0.058
742352	< 0.001	0.09	< 30	1.6	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	20	0.013	70	0.014	2	0.091	8.1	0.5	2	0.046
742353	0.004	0.09	< 30	2.5	< 50	< 40	170	< 20	0.3	< 50	< 100	110	< 50	20	0.016	70	0.005	3	0.100	7.7	0.4	< 1	0.079

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
742354	< 0.001	0.09	30	2.0	< 50	< 40	220	< 20	0.3	< 50	< 100	100	< 50	20	0.034	70	0.006	2	0.110	6.4	0.4	< 1	0.077
742355	< 0.001	0.08	< 30	2.7	< 50	< 40	200	< 20	0.3	< 50	< 100	90	< 50	20	0.009	60	0.032	3	0.100	5.8	0.4	< 1	0.062
742356	< 0.001	0.07	< 30	5.5	< 50	< 40	370	90	0.3	< 50	< 100	60	< 50	20	0.060	60	0.032	4	0.080	4.7	0.4	< 1	0.049
742357	< 0.001	0.08	< 30	2.9	< 50	< 40	250	< 20	0.3	< 50	< 100	80	< 50	20	0.009	60	0.032	3	0.090	4.7	0.5	< 1	0.062
742358	< 0.001	0.08	< 30	1.7	< 50	< 40	330	< 20	0.3	< 50	< 100	100	< 50	20	0.013	60	0.114	2	0.090	7.6	0.5	1	0.106
742359	< 0.001	0.09	< 30	2.1	< 50	< 40	310	< 20	0.3	< 50	< 100	110	< 50	20	0.025	60	0.078	2	0.090	8.6	0.5	2	0.107
742360D	< 0.001	0.09	< 30	2.1	< 50	< 40	300	40	0.3	< 50	< 100	110	< 50	20	0.024	60	0.077	2	0.090	8.4	0.6	< 1	0.104
742361	< 0.001	0.09	< 30	1.1	< 50	< 40	210	< 20	0.3	< 50	< 100	100	< 50	20	0.015	70	0.048	1	0.090	9.0	0.6	< 1	0.063
742362	< 0.001	0.07	< 30	1.8	< 50	< 40	220	30	0.3	< 50	< 100	90	< 50	20	0.016	50	0.044	2	0.090	7.1	0.6	< 1	0.057
742363	< 0.001	0.08	40	1.7	< 50	< 40	180	< 20	0.3	< 50	< 100	100	< 50	20	0.131	60	0.053	2	0.090	7.8	0.5	1	0.064
742364	< 0.001	0.08	< 30	1.7	< 50	< 40	200	50	0.3	< 50	< 100	100	< 50	20	0.040	70	0.012	2	0.090	8.6	0.5	< 1	0.068
742365	0.001	0.08	< 30	2.9	< 50	< 40	240	< 20	0.3	< 50	< 100	100	< 50	20	0.015	70	0.042	3	0.090	8.6	0.5	1	0.075
742366	< 0.001	0.08	< 30	2.3	< 50	< 40	290	< 20	0.3	< 50	< 100	100	< 50	20	0.032	70	0.026	2	0.080	7.1	0.4	1	0.072
742367	< 0.001	0.08	< 30	0.7	< 50	< 40	260	< 20	0.3	< 50	< 100	80	< 50	20	0.015	80	0.068	< 1	0.080	5.0	0.4	1	0.081
742368	< 0.001	0.08	50	1.3	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.011	80	0.047	1	0.080	4.7	0.3	< 1	0.071

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm													
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	
Method Code	AR-MS																							
742186	0.96	2.84	0.62	0.28	0.32	4.5	67	2	1170	4.22	9.7	2.4	19.6	304	6.22	< 0.1	6.0	25.5	33.4	8.58	5.3	< 0.1	2.60	
742187	0.98	2.80	0.54	0.30	0.38	5.3	83	4	1210	4.11	10.8	2.9	24.9	359	6.81	< 0.1	8.3	23.3	44.2	8.55	2.8	< 0.1	3.48	
742188	0.85	3.24	0.82	0.64	0.31	4.3	57	1	1290	3.66	11.4	2.7	22.5	338	5.97	< 0.1	6.0	36.0	172	10.2	5.7	< 0.1	2.97	
742189	1.13	3.23	0.80	1.44	0.28	4.2	60	3	1570	4.89	12.3	2.8	20.6	314	6.93	< 0.1	5.2	33.7	299	9.36	8.9	< 0.1	6.39	
742190	1.42	2.71	0.42	0.42	1.39	9.2	159	28	299	3.68	11.4	15.6	1860	269	7.59	< 0.1	30.7	20.6	41.4	10.3	3.0	< 0.1	51.1	
742191	0.98	2.87	0.70	1.15	0.28	4.3	56	2	1390	4.76	11.2	2.6	22.3	502	6.12	< 0.1	5.2	28.9	271	8.67	4.7	< 0.1	2.98	
742192	1.48	3.91	0.67	0.73	0.34	5.7	75	2	2460	5.20	13.8	3.3	19.8	573	7.93	< 0.1	18.4	29.3	272	12.1	5.2	< 0.1	2.48	
742193	1.25	3.14	0.60	1.85	0.35	4.5	63	2	1980	5.13	12.5	3.1	31.3	534	7.50	< 0.1	19.0	25.3	253	10.8	9.2	< 0.1	4.83	
742194	0.74	2.33	0.62	2.51	0.28	2.1	33	2	868	4.49	11.3	2.3	12.1	485	4.13	< 0.1	18.1	22.4	15.6	9.77	14.6	< 0.1	11.0	
742195	0.65	2.19	0.65	2.21	0.36	3.0	41	2	882	4.60	13.2	2.3	19.4	652	5.11	< 0.1	16.7	25.5	22.9	9.11	14.2	< 0.1	15.9	
742196	0.62	1.68	0.60	2.18	1.04	2.8	36	3	1010	4.71	12.0	2.6	28.9	425	4.64	< 0.1	6.6	22.2	29.3	8.23	16.0	< 0.1	5.44	
742197	1.20	2.20	0.53	0.43	2.18	4.1	63	3	1980	4.66	10.9	2.8	26.5	310	7.12	< 0.1	5.1	21.0	90.1	9.49	10.1	< 0.1	5.15	
742198	0.99	1.93	0.49	0.62	2.85	4.1	66	3	1720	4.47	10.0	2.9	34.6	274	6.56	< 0.1	3.1	18.7	193	11.2	13.4	< 0.1	7.25	
742199	1.24	2.21	0.50	0.44	2.78	5.3	83	4	2370	4.99	10.7	2.7	60.0	432	8.46	< 0.1	3.6	21.4	173	11.8	10.9	< 0.1	9.33	
742200D	1.21	2.16	0.49	0.45	2.81	5.0	81	4	2340	4.94	10.5	2.6	56.3	426	8.36	< 0.1	3.4	21.2	177	11.6	10.6	< 0.1	9.38	
742201	0.11	0.65	0.32	0.07	1.09	0.5	4	13	464	0.86	1.2	2.4	2.77	33.4	2.42	< 0.1	0.6	13.2	39.4	6.58	15.6	0.1	4.81	
742202	0.11	0.67	0.33	0.17	1.06	0.5	3	17	471	0.87	1.3	1.8	2.31	30.5	2.80	< 0.1	0.8	13.7	72.9	7.04	16.1	0.1	3.39	
742203	1.19	2.19	0.49	0.46	2.01	5.3	78	4	1990	5.09	11.0	2.7	44.0	361	7.71	< 0.1	3.4	20.3	68.4	10.1	6.7	< 0.1	1.98	
742204	0.40	1.20	0.46	1.88	1.09	2.4	28	2	753	4.53	13.9	2.1	24.6	191	3.23	< 0.1	18.6	16.9	80.2	6.95	14.4	< 0.1	4.98	
742205	1.10	2.11	0.56	0.72	2.42	4.3	62	4	1790	4.89	11.7	2.9	26.3	317	7.18	< 0.1	9.9	22.1	137	9.02	11.9	< 0.1	2.78	
742206	0.54	1.05	0.24	0.35	1.25	2.3	33	8	1160	2.59	5.4	2.2	18.6	152	6.05	< 0.1	2.3	7.8	86.5	7.31	4.7	< 0.1	2.08	
742207	0.48	0.98	0.23	0.42	1.20	2.0	31	9	1080	2.47	5.0	2.7	18.1	139	5.46	< 0.1	2.1	7.3	95.5	7.00	7.4	< 0.1	2.54	
742208	1.12	2.02	0.45	1.23	1.88	4.7	69	3	1930	5.23	13.1	2.4	20.5	309	7.50	< 0.1	10.7	17.5	83.1	10.4	10.9	< 0.1	2.73	
742209	0.97	1.94	0.54	0.64	1.11	2.8	40	4	1350	4.85	11.0	2.7	96.5	1740	5.03	< 0.1	15.4	19.7	61.0	7.47	12.3	< 0.1	2.74	
742210	0.91	2.02	0.67	2.29	1.90	7.1	72	87	423	4.97	18.6	19.4	1990	72.3	6.11	< 0.1	26.3	43.1	65.0	10.7	4.4	< 0.1	158	
742211	0.73	1.59	0.45	1.08	0.60	2.5	30	3	955	4.79	10.0	2.2	25.7	575	3.82	< 0.1	9.9	15.6	40.1	6.80	12.1	< 0.1	3.23	
742212	0.81	1.79	0.60	0.61	0.47	2.1	26	3	975	5.13	10.8	2.3	97.4	2040	4.06	< 0.1	20.6	22.5	23.1	6.81	16.4	< 0.1	5.11	
742213	0.67	1.49	0.48	1.37	0.62	2.3	31	4	919	5.11	11.5	3.0	10.3	120	3.68	< 0.1	14.2	16.9	17.2	7.34	15.2	< 0.1	6.72	
742214	1.32	2.18	0.44	0.62	1.06	4.3	62	3	2190	4.90	10.8	2.0	18.5	369	7.26	< 0.1	4.4	15.7	31.3	8.84	9.9	< 0.1	9.02	
742215	0.08	0.77	0.40	1.34	0.31	1.1	12	4	136	4.10	10.7	3.3	8.71	53.1	1.39	< 0.1	17.1	12.5	14.6	4.90	13.6	< 0.1	6.00	
742216	0.91	1.94	0.65	0.94	0.61	2.3	35	3	1410	5.01	10.1	2.2	15.6	358	4.63	< 0.1	14.0	23.2	14.2	7.56	16.0	< 0.1	7.74	
742217	0.46	1.45	0.64	2.33	0.50	1.6	23	4	559	5.37	13.6	2.6	17.8	235	3.30	< 0.1	22.4	21.5	9.7	8.07	18.4	< 0.1	23.9	
742218	1.46	2.54	0.51	0.77	1.54	6.1	85	4	2670	5.47	10.2	2.7	26.7	638	8.42	< 0.1	8.7	18.5	59.2	12.6	12.2	< 0.1	2.74	
742219	1.45	2.37	0.54	0.75	1.18	5.2	75	6	2820	5.03	9.3	2.7	31.3	736	7.94	< 0.1	6.4	19.6	24.5	12.5	10.2	< 0.1	2.12	
742220D	1.51	2.47	0.55	0.81	1.25	5.5	79	4	2990	5.24	9.7	2.7	36.4	805	8.26	< 0.1	6.9	20.2	25.7	13.2	9.7	< 0.1	2.14	
742221	1.00	1.85	0.58	1.04	0.38	2.2	29	4	1380	5.15	9.9	2.5	16.0	459	4.27	< 0.1	15.7	20.6	10.0	6.22	17.0	< 0.1	4.35	
742222	1.19	2.16	0.58	0.62	0.44	2.7	39	3	1820	5.07	10.1	2.2	22.3	507	5.28	< 0.1	13.4	20.5	11.1	7.28	15.1	< 0.1	1.94	
742223	0.51	1.28	0.44	1.11	0.49	1.7	23	3	848	4.06	9.2	2.3	34.2	160	2.71	< 0.1	9.7	14.3	19.2	19.2	5.93	12.6	< 0.1	8.65
742224	1.20	2.04	0.55	1.31	0.90	3.7	52	4	1940	5.43	14.2	2.3	20.8	413	6.38	< 0.1	12.7	20.7	35.1	12.9	16.5	< 0.1	5.83	
742225	1.20	2.07	0.53	1.09	0.58	2.3	34	3	1670	4.91	10.3	2.3	25.0	1870	4.85	< 0.1	16.2	18.9	22.8	6.67	11.7	< 0.1	2.43	
742226	1.34	2.32	0.56	0.98	0.40	2.3	35	3	2100	4.92	10.4	2.4	20.0	1040	5.29	< 0.1	13.3	20.6	16.2	6.29	10.3	< 0.1	3.27	
742227	1.11	2.23	0.69	0.71	0.57	3.0	44	4	2010	4.83	10.8	3.9	17.2	556	5.88	< 0.1	12.1	25.3	23.0	8.32	14.3	< 0.1	3.25	

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742228	0.42	1.39	0.57	1.29	0.27	1.9	22	3	472	5.50	10.9	2.6	29.9	91.1	3.19	< 0.1	16.1	18.4	14.0	5.53	17.6	< 0.1	5.19
742229	0.88	1.96	0.69	0.77	1.14	2.1	29	4	1190	5.87	11.1	3.3	32.7	631	4.28	< 0.1	13.9	23.8	67.8	6.00	18.0	< 0.1	4.54
742230	1.89	2.20	0.44	0.29	4.58	11.5	162	41	978	6.38	24.1	32.6	1150	113	7.99	< 0.1	45.4	22.0	140	13.6	3.9	< 0.1	15.0
742231	1.09	2.04	0.42	2.74	2.56	5.9	81	5	2370	4.76	10.4	2.8	18.4	323	7.60	< 0.1	5.6	17.2	134	12.7	17.0	0.4	3.26
742232	1.09	2.04	0.52	1.95	2.30	4.6	70	6	2360	4.78	12.7	3.2	37.1	272	6.77	< 0.1	3.9	21.1	121	12.4	16.6	0.3	5.78
742233	1.07	2.24	0.68	1.54	2.94	5.0	72	5	2690	5.09	13.3	3.0	16.6	345	7.36	< 0.1	3.6	28.7	141	14.0	16.4	0.3	4.24
742234	1.21	2.38	0.73	1.15	2.16	5.5	73	6	2040	4.81	11.1	3.4	43.6	567	7.71	< 0.1	3.6	30.8	109	14.1	13.8	0.1	2.71
742235	1.32	2.17	0.44	1.08	2.10	5.9	81	9	2500	4.86	13.8	3.6	44.9	182	7.95	< 0.1	3.8	17.0	113	13.6	12.5	0.2	3.00
742236	1.05	2.18	0.72	1.91	1.88	4.6	65	6	2150	7.19	33.2	3.0	18.9	176	6.72	< 0.1	6.4	27.1	92.8	12.7	14.2	0.2	5.91
742237	1.23	2.46	0.73	1.83	1.28	4.9	70	8	2450	6.46	32.1	3.6	67.1	207	7.64	< 0.1	4.1	25.2	36.7	14.0	10.4	< 0.1	3.06
742238	1.01	2.22	0.75	1.91	1.49	4.6	66	6	1910	7.91	38.9	2.8	12.4	121	6.76	0.1	3.8	26.0	41.8	12.7	8.9	< 0.1	4.46
742239	1.17	2.22	0.51	0.90	1.78	5.8	89	9	2070	5.31	13.5	3.8	89.0	127	7.78	< 0.1	3.6	18.9	43.1	13.6	10.2	0.1	11.3
742240D	1.17	2.24	0.53	0.92	1.79	6.0	90	7	2050	5.32	13.2	2.9	94.2	128	7.73	< 0.1	3.6	18.9	43.0	13.4	10.2	0.1	10.8
742241	0.83	1.49	0.23	0.28	1.85	5.5	83	10	1160	3.73	9.4	3.7	9.38	73.2	6.17	< 0.1	1.4	7.5	88.3	11.3	12.5	0.4	1.72
742242	0.97	1.46	0.18	0.31	1.54	5.7	86	12	1320	3.79	13.1	3.4	85.7	81.4	6.24	< 0.1	2.5	6.2	56.2	10.8	13.8	0.4	2.12
742243	0.76	1.36	0.19	0.22	1.50	3.7	58	8	1220	2.97	6.5	3.0	18.6	81.5	5.18	< 0.1	1.1	6.0	96.5	10.6	5.6	< 0.1	2.20
742244	1.04	2.20	0.21	0.55	1.99	5.7	83	22	1800	4.01	8.2	5.0	166	600	9.05	0.1	1.8	6.7	180	13.5	14.8	0.3	3.07
742245	0.78	1.58	0.17	0.35	1.62	4.6	63	9	1190	3.14	5.9	2.8	29.2	81.4	6.48	0.1	1.4	5.5	127	10.3	9.0	0.2	2.46
742246	0.74	1.45	0.19	0.30	1.78	4.4	61	13	899	3.04	6.4	3.2	3.46	52.9	5.68	< 0.1	0.9	6.4	114	11.1	6.0	0.2	3.27
742247	0.81	1.52	0.18	0.27	1.81	4.3	59	9	980	3.09	6.9	2.7	9.00	78.3	6.08	< 0.1	1.2	5.9	115	10.9	7.8	0.1	3.16
742248	0.78	1.32	0.16	0.18	1.65	4.7	63	12	825	2.95	6.6	3.0	7.00	55.8	5.55	< 0.1	1.5	5.0	96.9	10.8	9.3	0.2	1.96
742249	0.70	1.28	0.16	0.29	1.76	4.4	63	7	785	2.73	6.1	2.5	11.8	58.5	5.24	< 0.1	1.5	6.0	118	10.3	7.2	0.1	2.12
742250	0.09	0.39	0.23	0.17	0.29	0.9	9	12	233	1.01	0.9	1.9	1.75	17.7	2.43	< 0.1	0.5	13.8	12.1	13.3	6.0	1.9	1.54
742251	0.68	1.31	0.11	0.18	1.62	4.6	67	9	737	2.65	6.1	2.4	9.33	51.0	5.84	< 0.1	1.2	3.7	130	9.60	12.5	0.2	2.41
742252	0.74	1.35	0.12	0.14	1.44	4.6	65	13	684	2.65	6.5	4.3	2.09	45.0	5.84	< 0.1	1.2	3.5	121	9.23	11.6	0.3	2.83
742253	0.73	1.44	0.12	0.17	1.50	5.0	67	9	703	2.71	6.6	2.5	4.67	46.9	6.34	< 0.1	1.3	3.5	130	9.92	10.8	0.1	2.68
742254	0.67	1.31	0.12	0.15	1.44	4.5	63	12	631	2.47	6.3	2.9	7.62	40.3	5.47	< 0.1	1.3	3.4	121	9.20	13.0	0.2	2.37
742255	0.69	1.45	0.13	0.15	1.39	4.4	66	10	656	2.65	6.4	2.6	7.64	38.2	6.16	0.1	1.5	3.3	120	9.54	15.0	0.3	2.69
742256	0.75	1.40	0.12	0.19	1.41	4.5	66	12	749	2.63	6.7	3.0	9.95	59.6	6.10	< 0.1	1.1	3.5	130	9.86	13.9	0.5	2.15
742257	0.74	1.42	0.12	0.17	1.43	4.8	68	8	666	2.64	6.5	2.5	7.15	50.4	6.28	< 0.1	1.3	3.1	114	9.89	13.4	0.4	2.19
742258	0.72	1.42	0.10	0.13	1.42	4.4	65	15	683	2.55	6.7	2.8	5.02	70.6	6.08	< 0.1	1.2	2.6	125	9.53	14.5	0.4	1.97
742259	0.76	1.44	0.12	0.11	1.50	4.7	68	13	733	2.71	6.8	2.6	5.63	69.1	6.36	0.1	1.3	3.3	142	9.88	13.1	0.4	2.05
742260D	0.77	1.47	0.13	0.11	1.52	4.7	70	12	746	2.72	6.9	3.1	5.25	75.3	6.40	0.1	1.6	3.3	145	10.1	13.7	0.4	1.86
742261	0.78	1.53	0.13	0.17	1.48	4.3	69	13	1060	2.87	6.8	2.8	19.1	76.7	6.80	0.1	1.8	3.1	177	9.44	13.3	0.4	1.18
742262	0.76	1.51	0.17	0.09	1.54	4.5	88	9	1060	3.31	6.5	3.1	22.2	80.1	6.86	< 0.1	1.9	4.7	109	10.1	13.2	0.5	0.94
742263	1.27	1.84	0.14	0.59	2.68	6.4	110	6	1050	3.83	14.9	2.8	4.55	85.2	8.36	< 0.1	6.0	4.9	85.0	13.4	10.5	0.6	17.3
742264	1.14	2.61	0.89	0.68	1.49	5.4	92	6	1590	4.54	9.5	2.8	75.1	312	8.04	< 0.1	1.9	35.6	66.5	11.8	9.1	0.4	3.13
742265	0.63	2.17	1.01	0.98	2.33	2.4	39	5	558	4.35	9.2	2.6	24.0	74.6	5.28	< 0.1	2.4	45.0	127	11.2	14.9	0.1	2.88
742266	0.44	1.53	0.74	0.84	2.94	1.6	25	5	333	3.92	12.6	3.1	11.8	102	3.47	< 0.1	1.4	30.8	178	9.84	11.0	< 0.1	2.31
742267	0.63	1.79	0.80	0.43	3.12	1.8	27	5	628	3.45	8.9	2.9	10.6	183	4.14	< 0.1	1.3	31.5	214	9.29	9.3	< 0.1	1.74
742268	0.71	1.77	0.75	0.45	3.27	1.5	24	5	554	4.09	10.1	3.8	8.19	181	4.24	< 0.1	3.7	28.8	235	10.6	11.8	< 0.1	2.51
742269	0.31	1.03	0.48	0.82	4.42	1.0	12	5	179	4.76	13.2	3.2	8.22	27.7	2.13	< 0.1	3.3	17.0	337	8.00	10.4	< 0.1	2.87

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742270	1.40	2.25	1.20	0.89	1.24	15.7	209	51	585	5.72	20.2	35.1	3010	62.4	9.13	0.1	96.1	71.0	81.8	11.7	4.2	0.2	144
742271	0.15	0.68	0.31	0.40	3.86	0.9	7	6	72	3.97	11.1	5.2	6.93	13.0	1.10	< 0.1	1.3	9.0	336	6.14	11.4	< 0.1	3.73
742272	0.37	1.00	0.44	0.98	4.52	1.0	12	6	190	4.95	14.6	3.5	4.60	56.7	2.15	< 0.1	1.5	15.2	361	7.98	16.2	< 0.1	8.36
742273	0.52	1.20	0.48	0.67	3.49	1.1	14	5	190	4.06	10.0	3.5	2.24	16.6	2.71	< 0.1	1.1	17.4	288	7.20	9.9	< 0.1	2.36
742274	0.13	0.88	0.46	0.55	3.60	0.8	11	4	77	3.28	8.0	2.9	2.81	14.5	1.76	< 0.1	1.1	15.7	322	7.17	8.0	< 0.1	4.66
742275	0.38	1.31	0.61	1.03	3.05	0.9	16	7	280	4.38	12.4	4.2	4.16	22.8	2.82	< 0.1	1.4	21.9	261	6.96	10.2	< 0.1	2.94
742276	0.18	1.04	0.57	1.65	0.81	1.3	14	5	191	4.65	14.9	2.5	6.38	42.2	2.46	< 0.1	3.1	20.2	48.9	7.28	13.6	< 0.1	10.6
742277	0.50	1.45	0.63	0.96	1.07	1.3	13	5	314	4.01	7.5	3.2	6.71	110	3.20	< 0.1	1.6	22.6	56.8	7.44	7.2	< 0.1	3.65
742278	0.50	1.42	0.63	1.04	0.57	1.4	16	5	349	4.13	7.0	2.4	11.0	52.9	3.38	< 0.1	2.2	22.8	14.0	7.53	8.7	< 0.1	3.27
742279	0.61	1.40	0.60	0.98	0.74	1.3	15	7	482	4.73	11.5	3.0	29.8	229	3.37	< 0.1	2.5	21.7	16.1	7.37	10.7	< 0.1	4.75
742280D	0.64	1.54	0.66	1.05	0.72	1.3	16	5	512	4.91	11.9	2.7	32.4	256	3.75	< 0.1	2.4	24.2	17.1	7.85	7.4	< 0.1	4.49
742281	1.86	3.24	0.40	0.52	2.14	8.4	75	50	1330	4.90	18.1	53.1	44.4	311	6.36	< 0.1	5.2	15.0	55.9	10.5	15.2	< 0.1	3.37
742282	0.46	1.52	0.73	0.96	0.45	1.9	18	5	481	5.52	16.0	2.8	19.0	393	3.83	< 0.1	2.5	28.0	9.9	8.33	11.5	< 0.1	4.88
742283	0.56	1.54	0.73	0.69	1.43	1.3	17	6	589	5.06	10.0	3.2	17.9	365	3.70	< 0.1	1.7	28.9	64.2	6.82	14.3	< 0.1	3.02
742284	1.32	2.16	0.60	0.47	1.89	6.1	47	33	1070	5.20	17.5	28.0	27.6	669	4.94	< 0.1	3.3	23.2	68.2	8.25	9.8	< 0.1	5.20
742285	0.61	1.43	0.61	0.60	1.73	1.1	17	7	698	4.03	6.3	3.3	25.9	1030	3.28	< 0.1	1.0	23.2	96.3	7.01	8.2	< 0.1	1.45
742286	1.01	1.80	0.56	0.42	0.77	4.3	32	36	827	4.67	11.0	25.8	46.5	413	4.14	< 0.1	5.0	20.8	14.7	8.08	10.2	< 0.1	2.71
742287	1.16	1.79	0.58	0.41	1.06	4.9	36	28	1000	4.68	10.7	17.5	30.9	512	4.22	< 0.1	2.2	22.0	20.1	9.16	8.5	< 0.1	3.05
742288	0.84	1.73	0.72	0.47	1.19	1.6	22	6	701	4.17	5.1	3.9	58.1	470	4.46	< 0.1	3.4	27.7	60.4	7.95	6.9	< 0.1	3.52
742289	3.96	5.92	0.20	0.08	5.61	29.5	172	124	2650	6.19	32.9	120	84.7	283	9.85	< 0.1	18.9	7.2	156	16.1	3.6	< 0.1	0.53
742290	0.57	1.41	0.13	0.05	0.95	5.6	65	51	434	2.37	11.3	34.2	23.4	37.0	4.80	< 0.1	4.6	5.0	47.1	8.44	8.6	0.2	2.65
742291	0.97	1.84	0.81	0.58	1.93	3.0	27	11	1020	4.53	11.5	7.2	25.4	632	3.90	< 0.1	3.6	30.0	42.4	9.32	4.6	< 0.1	4.21
742292	0.42	1.51	0.76	0.89	0.75	1.6	19	7	473	4.59	8.4	2.8	20.8	398	3.22	< 0.1	3.2	27.5	23.9	9.93	6.1	< 0.1	6.06
742293	1.65	2.49	0.64	0.73	1.68	8.0	63	45	1400	5.63	17.3	44.0	37.7	265	5.26	< 0.1	7.9	25.0	35.3	10.3	10.4	< 0.1	4.26
742294	1.57	2.80	0.71	0.40	2.45	9.4	66	55	1500	4.52	18.8	49.0	40.7	568	5.61	< 0.1	11.0	27.2	94.8	10.1	7.5	< 0.1	2.77
742295	0.32	1.20	0.65	0.72	1.25	1.1	14	5	716	3.98	7.3	2.9	26.1	628	2.46	< 0.1	6.8	27.0	52.8	6.77	9.0	< 0.1	4.61
742296	0.38	1.37	0.70	1.63	0.62	1.5	20	5	598	4.27	11.8	2.6	28.1	756	3.06	< 0.1	26.3	28.3	14.9	5.23	10.3	< 0.1	12.8
742297	0.37	1.38	0.72	1.25	2.39	1.3	18	6	611	4.13	6.4	3.3	62.2	514	3.16	< 0.1	3.7	29.0	156	6.81	10.7	< 0.1	30.9
742298	0.73	1.85	0.81	1.28	2.92	1.9	27	4	1280	3.67	8.4	2.7	173	393	4.82	< 0.1	3.4	32.5	195	7.25	9.0	< 0.1	7.75
742299	0.69	1.57	0.71	0.77	1.15	1.9	20	6	1080	4.08	8.4	2.5	10.1	441	3.70	< 0.1	3.2	29.5	69.3	7.68	8.4	< 0.1	12.4
742300D	0.66	1.50	0.68	0.73	1.06	1.8	19	6	1020	3.88	7.9	2.2	8.97	424	3.47	< 0.1	2.9	27.8	60.3	7.07	7.1	< 0.1	12.0
742301	0.45	1.52	0.81	1.15	1.01	2.2	20	6	800	4.06	8.8	2.7	34.8	1070	3.48	< 0.1	3.6	34.4	71.8	7.93	10.6	< 0.1	9.24
742302	0.39	1.52	0.85	0.92	0.67	1.4	19	7	656	4.37	14.5	11.9	40.5	882	3.30	< 0.1	18.6	36.0	44.2	7.81	12.3	< 0.1	11.4
742303	0.48	1.68	0.86	0.67	0.75	2.0	25	8	765	2.95	11.3	2.1	62.0	428	4.19	< 0.1	37.8	37.1	43.1	7.71	6.3	< 0.1	12.6
742304	0.41	1.67	0.92	0.80	0.62	2.4	23	5	623	3.76	12.1	2.7	22.1	352	4.14	< 0.1	4.7	42.0	22.6	8.40	6.3	< 0.1	7.11
742305	0.43	1.60	0.89	0.92	0.75	1.7	17	7	600	4.15	11.9	2.5	17.8	355	4.38	< 0.1	2.3	40.2	53.9	8.52	9.3	< 0.1	5.33
742306	0.41	1.48	0.80	0.69	0.59	1.6	18	5	599	3.63	13.4	2.7	52.1	538	3.92	< 0.1	2.7	35.6	38.9	8.48	8.2	< 0.1	6.69
742307	0.43	1.54	0.83	0.83	0.71	1.9	20	5	617	3.52	12.3	1.8	35.8	175	3.86	< 0.1	2.1	35.0	25.1	8.17	5.9	< 0.1	5.37
742308	0.38	1.30	0.69	0.58	0.71	1.7	14	5	534	3.43	10.2	2.6	17.4	188	3.41	< 0.1	1.3	29.4	17.0	7.80	7.6	< 0.1	4.48
742309	0.24	1.58	0.89	0.94	0.42	1.8	15	5	233	3.78	9.3	2.0	17.3	353	3.64	< 0.1	2.0	35.6	17.7	5.55	10.5	< 0.1	20.3
742310	1.57	2.86	0.36	1.42	1.58	10.9	175	18	288	3.88	13.3	11.8	3880	113	8.04	< 0.1	38.1	7.3	37.8	9.78	0.8	< 0.1	80.6
742311	0.37	1.34	0.76	0.83	0.69	1.8	14	7	493	4.47	11.1	2.7	14.2	351	3.53	< 0.1	3.2	34.1	20.5	8.45	12.2	< 0.1	4.08

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742312	0.41	1.47	0.84	0.82	0.69	1.9	17	6	573	5.25	12.0	2.6	28.0	178	3.92	< 0.1	5.0	38.3	26.1	8.50	14.4	< 0.1	5.41
742313	0.44	1.54	0.80	1.23	0.69	2.2	19	5	600	4.10	14.2	2.4	27.0	1280	4.22	< 0.1	3.1	34.2	43.2	7.97	10.3	< 0.1	5.55
742314	0.85	1.47	0.29	0.25	1.71	4.9	52	12	1720	3.05	6.7	3.1	26.2	287	7.19	< 0.1	0.7	10.8	152	11.5	2.7	< 0.1	1.78
742315	0.87	1.43	0.38	0.45	1.47	4.2	44	11	1810	3.26	7.9	3.5	32.7	166	5.86	< 0.1	0.9	14.1	112	9.81	4.1	< 0.1	3.74
742316	0.94	1.56	0.35	0.55	1.27	4.6	49	11	1770	3.38	7.0	3.2	25.8	266	6.31	< 0.1	1.0	13.5	92.1	9.99	4.4	< 0.1	1.51
742317	0.89	1.63	0.46	0.64	1.13	4.2	45	8	1740	3.99	9.6	3.5	29.1	221	6.22	< 0.1	2.3	20.0	59.8	9.87	5.4	< 0.1	5.22
742318	0.81	1.52	0.39	0.43	1.63	4.2	44	10	1890	3.16	8.7	29.9	30.4	225	6.03	< 0.1	0.9	14.0	82.4	10.5	2.6	< 0.1	5.86
742319	1.02	1.59	0.26	0.51	1.56	4.1	48	9	2160	3.18	8.9	3.0	30.6	263	6.26	< 0.1	0.7	10.0	89.0	11.5	5.2	< 0.1	2.28
742320D	1.01	1.54	0.25	0.51	1.53	4.0	47	9	2140	3.16	8.8	4.3	28.0	264	6.08	< 0.1	0.7	9.5	85.8	11.3	5.4	< 0.1	2.29
742321	0.89	1.50	0.32	0.24	2.07	3.8	45	13	1830	2.88	6.8	2.9	30.9	341	6.49	< 0.1	0.8	11.1	191	11.9	1.0	< 0.1	2.83
742322	0.94	1.65	0.39	0.26	1.55	3.9	47	10	1770	3.04	6.9	3.4	30.4	173	6.53	< 0.1	1.0	14.8	112	10.1	1.3	< 0.1	2.50
742323	0.70	1.50	0.45	0.36	1.29	3.8	44	11	1340	3.31	9.4	3.9	52.1	138	5.81	< 0.1	2.8	18.4	78.6	10.5	3.2	< 0.1	3.12
742324	0.79	1.34	0.32	0.71	1.68	4.0	41	8	1640	3.42	12.9	3.2	41.8	124	4.78	< 0.1	0.6	10.9	107	11.1	4.0	< 0.1	2.37
742325	0.81	1.52	0.47	1.81	2.46	3.9	37	5	2330	4.93	31.5	3.4	21.6	371	5.07	< 0.1	2.0	16.0	123	12.4	6.8	< 0.1	2.21
742326	1.04	1.83	0.51	1.65	2.02	3.6	40	5	2520	3.22	6.9	3.1	64.7	2030	6.08	< 0.1	1.1	19.8	90.9	10.9	2.1	< 0.1	3.01
742327	0.73	1.29	0.63	1.80	3.42	3.7	23	4	4290	3.48	6.4	3.0	58.9	3500	3.36	< 0.1	6.4	24.6	96.4	15.6	1.5	< 0.1	3.20
742328	0.10	0.46	0.25	0.15	0.31	1.0	10	12	253	1.12	1.1	2.6	3.31	36.1	2.68	< 0.1	0.2	14.6	13.6	14.0	6.3	2.0	1.80
742329	0.35	1.23	0.65	0.55	0.71	1.8	16	3	697	4.17	12.6	2.3	19.1	165	2.96	< 0.1	32.1	28.7	37.3	7.99	9.7	< 0.1	10.5
742330	0.87	1.95	0.63	2.20	1.56	6.7	68	83	382	4.45	17.9	18.9	1810	69.4	5.92	< 0.1	24.8	41.1	58.9	10.1	4.2	< 0.1	161
742331	0.53	1.51	0.74	0.41	0.55	2.4	26	6	746	4.06	9.8	2.8	44.8	740	4.20	< 0.1	7.7	31.3	13.0	8.74	8.4	< 0.1	6.47
742332	0.50	1.72	0.88	0.29	0.64	2.8	29	7	688	4.66	9.5	2.4	11.4	141	4.64	< 0.1	2.4	36.6	21.1	8.82	11.8	< 0.1	5.93
742333	0.44	1.33	0.68	0.25	0.70	3.0	27	5	658	4.26	9.8	3.0	12.8	201	3.90	< 0.1	3.1	27.4	22.5	9.40	8.8	< 0.1	3.08
742334	0.36	1.35	0.71	0.32	0.71	2.5	28	5	635	4.64	10.8	2.5	16.5	2000	3.76	< 0.1	4.0	28.7	21.0	8.64	11.0	< 0.1	4.58
742335	0.53	1.34	0.59	0.48	0.69	2.5	28	5	772	4.51	10.2	2.7	18.8	486	4.05	< 0.1	3.4	23.8	29.8	8.02	8.7	< 0.1	5.81
742336	0.55	1.76	0.69	0.42	0.61	3.2	38	8	829	5.24	10.3	3.0	23.3	460	5.53	< 0.1	4.3	27.9	25.0	8.55	12.5	< 0.1	12.9
742337	0.91	1.68	0.49	0.41	0.91	4.5	59	4	970	5.05	8.6	2.3	41.6	426	6.22	< 0.1	6.7	20.2	43.5	10.9	13.7	0.1	6.01
742338	0.99	1.79	0.47	0.96	1.73	4.6	63	5	1250	4.27	10.9	2.1	208	1360	6.49	< 0.1	7.9	19.3	91.3	12.2	14.2	0.1	4.28
742339	0.85	1.62	0.51	0.45	1.14	3.4	44	4	1110	3.93	9.2	2.2	34.2	485	5.47	< 0.1	4.1	21.1	71.7	11.5	5.9	< 0.1	4.76
742340D	0.83	1.59	0.51	0.44	1.17	3.4	43	4	1100	3.87	9.0	2.0	33.8	480	5.45	< 0.1	4.0	21.0	74.1	11.5	6.3	< 0.1	4.76
742341	0.61	1.71	0.69	0.45	0.57	2.8	32	5	868	4.12	11.7	2.1	15.0	221	4.84	< 0.1	11.0	25.7	21.3	10.2	7.7	< 0.1	5.14
742342	0.35	1.36	0.63	0.55	0.58	2.6	29	4	445	4.09	9.9	2.3	23.0	617	3.72	< 0.1	8.6	24.1	39.1	9.17	8.2	< 0.1	12.0
742343	0.76	1.88	0.66	0.27	0.88	3.2	40	5	1050	4.91	9.8	2.5	29.0	839	5.51	< 0.1	6.4	27.7	52.8	10.6	9.8	< 0.1	3.58
742344	0.44	1.57	0.64	0.65	0.73	2.4	30	4	819	4.83	9.8	2.1	60.2	530	4.21	< 0.1	11.0	26.0	44.7	8.67	8.6	< 0.1	47.3
742345	0.47	1.72	0.72	1.20	0.61	2.5	30	4	835	4.63	10.2	2.0	52.2	571	4.40	< 0.1	8.8	27.5	44.4	8.38	9.2	< 0.1	18.4
742346	0.39	1.46	0.62	0.90	0.52	1.9	22	5	602	3.80	8.2	2.0	102	605	3.36	< 0.1	5.3	23.4	55.5	6.64	9.0	< 0.1	45.7
742347	0.64	2.00	0.75	0.68	1.01	3.3	44	5	1110	4.50	8.7	2.0	66.4	903	5.87	< 0.1	7.8	31.6	68.9	11.6	7.9	< 0.1	6.91
742348	0.47	1.62	0.68	1.06	1.75	2.4	39	3	950	4.46	11.0	2.6	66.3	576	4.47	< 0.1	9.1	29.3	109	10.3	12.5	< 0.1	5.08
742349	0.55	2.02	0.83	1.05	0.82	3.2	39	4	1010	4.95	15.2	2.3	80.9	506	5.34	< 0.1	8.0	35.7	53.8	12.0	10.5	< 0.1	9.54
742350	1.40	2.67	0.41	0.37	1.42	8.8	154	27	278	3.43	11.4	15.2	1760	255	7.57	< 0.1	28.1	19.8	39.8	9.95	2.8	< 0.1	51.2
742351	0.50	1.93	0.80	0.90	1.13	2.8	46	4	953	4.67	9.6	2.2	46.6	257	5.61	< 0.1	7.0	35.0	57.6	11.7	8.1	< 0.1	6.74
742352	0.69	1.98	0.67	0.73	0.94	3.3	49	4	1360	4.39	10.5	1.9	143	113	5.78	< 0.1	7.7	27.8	54.3	11.7	5.2	< 0.1	6.69
742353	0.70	1.89	0.64	0.63	1.20	3.3	40	5	1360	4.04	10.4	2.5	104	163	5.74	< 0.1	6.3	27.2	56.9	12.8	3.5	< 0.1	6.96

Results**Activation Laboratories Ltd.****Report: A17-09876**

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742354	0.69	2.00	0.64	0.79	1.19	3.3	40	5	1200	4.28	9.6	2.3	99.2	379	6.10	< 0.1	9.2	27.1	68.9	12.7	3.5	< 0.1	5.92
742355	0.66	1.90	0.66	2.02	1.21	2.8	32	4	1180	3.78	12.1	2.7	25.6	84.6	5.20	< 0.1	5.2	27.1	77.0	10.6	10.8	< 0.1	11.2
742356	0.57	1.98	0.73	1.99	3.63	2.1	22	5	1270	3.21	8.6	3.3	76.0	676	4.92	< 0.1	5.3	30.4	213	8.55	10.3	< 0.1	7.78
742357	0.50	1.86	0.66	1.82	1.99	2.6	26	4	1050	3.31	10.6	2.4	62.4	80.4	5.13	< 0.1	3.6	27.3	115	9.78	9.8	< 0.1	10.1
742358	0.64	1.93	0.59	0.29	1.97	3.2	48	7	1490	2.96	7.3	2.3	31.7	104	6.29	< 0.1	3.1	26.3	104	9.36	9.5	0.3	2.93
742359	0.68	1.91	0.60	0.62	1.66	3.3	44	6	1460	3.50	10.4	2.1	72.9	242	5.87	< 0.1	3.2	26.8	89.8	10.00	10.1	0.1	8.32
742360D	0.69	1.90	0.60	0.60	1.73	3.1	44	6	1450	3.51	10.4	2.3	69.6	241	5.82	< 0.1	3.2	27.1	88.6	9.94	10.1	0.1	8.04
742361	0.92	2.18	0.71	0.40	0.91	3.0	36	5	1530	3.23	7.5	1.7	10.1	145	6.20	< 0.1	4.2	30.7	48.6	9.84	7.5	< 0.1	4.29
742362	0.72	2.18	0.79	0.63	1.35	2.9	35	9	1400	3.54	9.7	2.2	45.8	160	6.03	< 0.1	3.4	35.1	76.8	9.34	12.3	< 0.1	7.57
742363	0.80	2.07	0.67	0.50	1.21	3.1	37	8	1360	3.45	9.2	17.4	74.2	1430	5.93	< 0.1	2.4	30.0	53.7	10.0	12.1	< 0.1	5.63
742364	0.99	1.92	0.54	0.39	1.51	3.1	38	4	1760	3.03	8.5	1.8	11.2	426	5.92	< 0.1	2.1	24.7	54.0	10.4	4.0	< 0.1	8.04
742365	1.07	2.27	0.74	0.40	2.08	3.2	42	4	1870	3.38	7.6	2.0	11.9	147	6.40	< 0.1	3.0	33.9	114	9.12	14.0	< 0.1	5.47
742366	0.86	2.04	0.58	0.44	2.37	2.9	36	6	1680	2.63	6.8	2.3	40.8	341	5.68	< 0.1	1.4	25.2	128	9.47	9.1	< 0.1	4.00
742367	0.82	1.89	0.31	0.67	1.92	3.2	41	8	1720	2.68	7.1	2.5	196	154	6.29	< 0.1	1.7	11.6	67.8	10.0	6.8	0.1	2.51
742368	0.76	1.87	0.37	2.60	1.78	3.0	37	7	1390	3.03	7.4	2.9	521	99.8	6.09	< 0.1	3.3	13.9	62.3	9.86	9.8	< 0.1	6.81

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742186	0.327	0.05	0.48	0.23	0.28	2.02	46.9	14.2	26.1	4.54	4.0	15.8	3.2	0.6	0.7	2.5	0.3	2.0	0.3	1.0	0.1	0.9	0.1
742187	0.461	0.07	0.65	0.30	0.19	2.36	65.1	14.7	27.0	4.01	4.1	16.9	3.5	0.7	0.8	2.8	0.3	2.0	0.4	1.0	0.1	0.8	0.1
742188	0.281	0.09	0.81	0.22	0.31	2.03	34.6	20.4	37.3	7.12	5.7	23.0	4.7	0.8	1.2	3.7	0.5	2.7	0.4	1.2	0.2	1.0	0.1
742189	0.418	0.09	0.54	0.14	0.39	1.19	21.6	16.4	29.6	4.77	4.5	17.7	3.7	1.5	0.9	2.8	0.4	2.3	0.4	1.2	0.2	1.0	0.1
742190	0.963	0.07	1.67	0.72	0.13	1.06	70.4	7.5	14.9	0.55	2.4	10.1	2.3	3.7	0.5	2.1	0.3	2.1	0.4	1.1	0.1	0.9	0.1
742191	0.621	0.13	0.71	0.13	0.47	1.12	19.7	14.7	26.5	4.97	4.0	16.0	3.3	1.7	0.8	2.6	0.3	2.0	0.3	1.0	0.1	0.9	0.1
742192	0.481	0.13	0.65	0.33	0.30	2.13	35.6	17.4	31.4	5.81	4.8	19.3	4.0	0.9	1.0	3.4	0.5	2.8	0.5	1.4	0.2	1.2	0.2
742193	0.562	0.14	0.38	0.19	0.64	1.37	23.6	16.1	28.0	5.89	4.2	17.0	3.7	1.5	0.9	3.2	0.4	2.5	0.4	1.2	0.2	1.1	0.2
742194	1.08	0.18	1.21	0.15	1.01	0.82	11.0	9.1	18.0	4.71	2.8	11.6	2.6	1.4	0.7	2.3	0.3	2.1	0.4	1.2	0.2	1.1	0.2
742195	0.917	0.41	0.50	0.59	1.11	0.89	14.1	9.8	19.5	6.70	3.1	12.7	2.8	1.6	0.7	2.3	0.3	2.0	0.3	1.1	0.2	1.1	0.2
742196	0.673	0.14	0.65	0.18	0.55	0.69	8.6	9.6	18.7	4.16	3.0	12.1	2.5	1.2	0.7	2.1	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742197	0.287	0.05	0.81	0.13	0.23	0.97	15.4	11.2	20.7	0.91	3.2	13.3	2.9	0.9	0.7	2.4	0.3	2.0	0.3	1.0	0.1	0.9	0.1
742198	0.300	0.07	0.71	0.13	0.26	1.00	20.7	11.3	20.3	1.40	3.1	12.8	2.8	0.8	0.7	2.5	0.3	2.2	0.4	1.2	0.2	1.1	0.2
742199	0.280	0.05	0.64	0.12	0.24	1.15	20.8	12.2	21.9	2.75	3.4	13.9	3.1	0.9	0.7	2.7	0.4	2.4	0.4	1.3	0.2	1.1	0.2
742200D	0.326	0.05	0.73	0.10	0.20	1.09	20.1	11.9	21.7	2.69	3.3	13.6	3.0	0.7	0.7	2.6	0.4	2.3	0.4	1.2	0.2	1.1	0.2
742201	0.270	< 0.02	0.84	0.07	0.03	0.79	246	18.5	28.9	0.02	3.7	12.3	1.9	< 0.1	0.3	1.4	0.2	1.1	0.2	0.7	0.1	0.8	0.1
742202	0.235	< 0.02	0.92	0.09	< 0.02	0.77	527	20.1	31.3	0.03	4.0	13.0	2.1	0.3	0.3	1.4	0.2	1.2	0.2	0.7	0.1	0.8	0.1
742203	0.353	0.05	1.73	0.11	0.26	1.38	19.2	11.6	21.4	1.72	3.3	13.5	2.9	1.2	0.7	2.4	0.3	2.0	0.3	1.1	0.1	1.0	0.2
742204	1.17	0.04	0.70	0.18	1.28	0.68	9.5	7.5	14.4	1.53	2.3	9.54	2.0	1.7	0.5	1.7	0.2	1.3	0.2	0.8	0.1	0.7	0.1
742205	0.507	0.05	0.57	0.16	0.58	1.16	14.7	10.0	18.4	2.11	2.9	11.8	2.6	1.0	0.6	2.3	0.3	1.9	0.3	1.0	0.1	0.9	0.1
742206	0.216	0.03	0.88	0.08	0.05	0.28	164	20.3	33.6	0.27	4.7	16.8	2.9	0.2	0.6	2.1	0.2	1.4	0.2	0.7	0.1	0.7	0.1
742207	0.209	0.03	0.58	0.07	0.03	0.31	402	19.8	32.5	0.20	4.5	16.3	2.7	0.4	0.5	1.9	0.2	1.4	0.2	0.7	0.1	0.7	0.1
742208	0.562	0.06	0.36	0.14	0.70	1.11	10.5	12.4	22.9	2.32	3.5	14.6	3.0	0.8	0.7	2.7	0.4	2.2	0.4	1.1	0.2	1.0	0.2
742209	1.95	0.11	1.22	0.27	1.46	0.95	11.0	10.0	20.3	11.3	3.2	13.4	2.7	1.1	0.5	2.1	0.3	1.6	0.3	0.8	0.1	0.7	0.1
742210	2.16	0.07	2.23	6.86	0.40	2.03	20.9	19.0	31.1	0.78	4.3	15.6	2.9	3.1	0.7	2.5	0.3	2.1	0.4	1.1	0.2	1.0	0.2
742211	0.717	0.12	0.49	0.15	0.89	0.69	7.3	6.2	13.0	4.79	2.1	9.13	2.2	1.4	0.5	1.8	0.2	1.5	0.3	0.8	0.1	0.6	< 0.1
742212	1.88	0.41	0.50	0.20	1.44	0.53	7.4	8.2	17.3	21.9	2.8	11.5	2.5	1.9	0.4	1.8	0.2	1.4	0.2	0.8	0.1	0.7	0.1
742213	1.19	0.04	0.45	0.17	1.14	0.48	10.2	4.9	10.3	0.36	1.7	7.42	2.0	1.2	0.5	1.7	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742214	0.769	0.09	0.30	0.10	0.74	0.82	14.4	10.0	18.9	1.89	2.9	12.2	2.6	1.0	0.6	2.2	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742215	1.48	0.02	0.32	0.22	1.13	0.29	7.3	4.7	9.92	0.50	1.6	6.72	1.6	1.9	0.4	1.5	0.2	1.1	0.2	0.6	< 0.1	0.6	< 0.1
742216	1.33	0.08	0.38	0.18	1.14	0.52	10.5	8.7	17.8	2.64	2.8	11.7	2.6	0.8	0.6	1.9	0.3	1.6	0.3	0.8	0.1	0.8	0.1
742217	0.603	0.08	0.37	0.29	1.26	0.37	6.1	9.9	20.7	2.17	3.3	14.3	2.8	2.0	0.6	2.2	0.3	1.7	0.3	0.9	0.1	0.8	0.1
742218	0.816	0.17	1.06	0.17	0.91	0.71	16.8	11.8	21.5	5.39	3.3	13.6	2.9	0.8	0.7	2.6	0.4	2.4	0.4	1.4	0.2	1.2	0.2
742219	1.37	0.18	0.49	0.13	1.11	0.70	9.9	13.9	25.8	8.34	4.0	16.2	3.5	1.1	0.9	2.9	0.4	2.5	0.4	1.3	0.2	1.1	0.2
742220D	1.51	0.19	1.62	0.15	1.15	0.73	11.0	14.3	26.7	9.28	4.1	16.8	3.6	1.1	0.9	3.0	0.4	2.6	0.5	1.4	0.2	1.2	0.2
742221	1.14	0.12	0.31	0.18	1.13	0.42	8.3	10.3	19.9	4.27	3.0	12.6	2.6	1.7	0.5	1.8	0.2	1.3	0.2	0.7	< 0.1	0.7	0.1
742222	2.96	0.06	0.22	0.18	2.84	0.53	11.8	9.5	18.4	4.67	2.8	11.6	2.5	2.1	0.6	2.0	0.3	1.6	0.3	0.8	0.1	0.7	0.1
742223	1.03	0.03	0.34	0.11	1.09	0.37	8.1	8.3	15.7	1.20	2.4	9.55	2.1	1.4	0.6	1.7	0.2	1.2	0.2	0.6	< 0.1	0.6	< 0.1
742224	0.917	0.14	0.29	0.20	0.85	0.62	8.9	15.6	30.2	3.90	4.6	18.0	3.7	1.7	0.9	3.2	0.4	2.6	0.4	1.3	0.2	1.1	0.2
742225	1.22	0.72	0.23	0.19	1.06	0.48	7.9	8.7	18.0	24.7	2.8	11.3	2.4	1.5	0.6	1.9	0.2	1.4	0.2	0.7	< 0.1	0.7	0.1
742226	1.51	0.24	0.51	0.16	0.94	0.48	7.9	8.8	17.8	12.5	2.8	11.5	2.4	1.5	0.5	1.7	0.2	1.3	0.2	0.7	0.1	0.7	0.1
742227	1.40	0.17	0.58	0.14	0.70	0.61	13.4	9.2	19.3	5.84	3.2	13.3	2.9	1.0	0.6	2.3	0.3	1.8	0.3	0.9	0.1	0.8	0.1

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742228	1.05	0.05	0.48	0.17	1.29	0.43	5.7	8.2	16.2	0.32	2.5	10.4	2.2	2.9	0.5	1.5	0.2	1.2	0.2	0.6	< 0.1	0.6	0.1
742229	1.65	0.13	0.19	0.15	1.45	0.56	7.7	7.3	14.6	5.05	2.3	9.50	2.1	1.7	0.5	1.7	0.2	1.3	0.2	0.7	0.1	0.7	0.1
742230	1.04	0.08	2.68	4.41	0.22	1.53	43.5	8.8	16.2	1.35	2.7	11.6	2.9	4.0	0.8	2.7	0.4	2.6	0.5	1.4	0.2	1.2	0.2
742231	0.884	0.18	1.18	0.19	0.45	0.50	19.1	8.5	15.5	1.88	2.4	10.3	2.4	0.9	0.6	2.3	0.3	2.4	0.4	1.4	0.2	1.3	0.2
742232	0.577	0.13	0.89	0.14	0.52	0.54	18.4	7.9	14.7	1.45	2.3	9.71	2.3	1.0	0.6	2.2	0.3	2.3	0.4	1.4	0.2	1.3	0.2
742233	0.640	0.14	2.93	0.17	0.40	0.74	14.3	9.7	18.4	1.99	2.8	12.1	2.7	1.1	0.7	2.6	0.4	2.6	0.5	1.5	0.2	1.4	0.2
742234	0.381	0.19	0.63	0.19	0.35	0.63	15.3	10.1	19.1	4.04	3.0	12.4	2.8	0.8	0.7	2.5	0.4	2.7	0.5	1.5	0.2	1.4	0.2
742235	0.446	0.06	0.48	0.23	0.52	0.38	13.1	9.8	17.7	0.35	2.8	11.3	2.6	0.9	0.7	2.5	0.4	2.5	0.5	1.5	0.2	1.3	0.2
742236	0.912	0.07	1.18	0.25	1.00	0.52	10.3	7.6	15.0	0.65	2.4	10.2	2.4	2.9	0.5	2.2	0.3	2.3	0.4	1.4	0.2	1.3	0.2
742237	1.12	0.05	1.37	0.21	0.71	0.68	10.7	11.1	21.1	0.86	3.3	13.8	3.1	3.1	0.7	2.7	0.4	2.8	0.5	1.5	0.2	1.4	0.2
742238	2.97	0.04	0.76	0.18	0.88	0.80	10.5	11.0	21.4	0.22	3.3	13.5	2.9	4.1	0.7	2.6	0.4	2.5	0.4	1.3	0.2	1.2	0.2
742239	0.665	0.04	0.82	0.23	0.44	0.64	16.8	12.5	22.4	0.09	3.4	13.6	3.0	0.9	0.8	2.6	0.4	2.5	0.5	1.5	0.2	1.3	0.2
742240D	0.510	0.04	0.73	0.28	0.42	0.67	19.1	12.8	22.6	0.22	3.5	13.8	3.0	1.1	0.8	2.7	0.4	2.6	0.5	1.4	0.2	1.3	0.2
742241	0.251	0.11	0.98	0.26	0.15	0.22	122	12.5	21.7	0.04	3.1	11.7	2.4	0.5	0.5	2.1	0.3	2.0	0.4	1.2	0.2	1.2	0.2
742242	0.231	0.06	0.97	0.23	0.22	0.19	53.6	11.9	19.9	0.07	2.8	10.9	2.2	0.6	0.5	2.0	0.3	1.9	0.4	1.2	0.2	1.2	0.2
742243	0.141	0.05	0.60	0.29	0.05	0.17	500	14.3	23.6	0.06	3.2	12.0	2.3	0.5	0.5	2.0	0.3	1.9	0.3	1.1	0.2	1.1	0.2
742244	0.207	0.09	1.05	0.64	0.10	0.22	190	18.8	30.7	6.68	4.1	15.0	2.8	0.6	0.6	2.5	0.4	2.4	0.4	1.4	0.2	1.5	0.2
742245	0.280	0.05	0.79	0.39	0.13	0.15	184	14.1	23.1	0.03	3.1	11.7	2.2	0.3	0.5	1.9	0.3	1.8	0.3	1.1	0.2	1.1	0.2
742246	0.124	0.04	0.57	0.24	0.05	0.18	153	14.6	23.9	0.03	3.2	11.8	2.4	0.4	0.5	2.0	0.3	2.0	0.4	1.2	0.2	1.2	0.2
742247	0.104	0.04	0.56	0.28	0.04	0.18	294	15.4	25.1	0.07	3.4	12.5	2.4	0.4	0.5	2.1	0.3	2.0	0.4	1.2	0.2	1.2	0.2
742248	0.086	0.03	0.61	0.23	0.03	0.14	323	14.2	23.5	0.06	3.2	12.0	2.4	0.3	0.5	2.0	0.3	1.9	0.4	1.2	0.2	1.2	0.2
742249	0.187	0.03	0.56	0.24	0.13	0.17	587	16.1	29.7	0.07	3.5	12.9	2.6	0.4	0.5	2.3	0.3	2.0	0.4	1.2	0.2	1.1	0.2
742250	0.221	< 0.02	0.90	0.04	< 0.02	0.49	39.6	59.4	107	0.03	11.4	34.6	4.9	0.5	0.4	3.5	0.4	2.6	0.4	1.3	0.2	1.1	0.1
742251	0.195	0.03	0.84	0.26	0.02	0.09	395	13.8	26.2	0.04	3.1	11.3	2.2	0.3	0.4	2.0	0.3	1.8	0.3	1.1	0.2	1.2	0.2
742252	0.109	0.03	1.76	0.33	< 0.02	0.08	226	13.9	26.0	0.03	3.0	11.1	2.1	0.4	0.4	1.9	0.3	1.8	0.3	1.1	0.2	1.1	0.2
742253	0.113	0.03	0.66	0.24	< 0.02	0.08	121	14.9	28.1	0.04	3.3	12.0	2.4	0.4	0.5	2.1	0.3	1.9	0.4	1.2	0.2	1.2	0.2
742254	0.161	0.02	1.03	0.22	0.03	0.07	371	13.0	24.8	0.08	2.9	10.8	2.0	0.4	0.4	1.8	0.3	1.8	0.3	1.1	0.2	1.1	0.2
742255	0.117	0.03	1.12	0.27	< 0.02	0.07	199	13.9	26.1	0.06	3.0	11.1	2.2	0.3	0.4	1.9	0.3	1.8	0.3	1.2	0.2	1.2	0.2
742256	0.153	0.04	1.00	0.29	0.04	0.09	194	14.4	27.1	0.03	3.2	11.5	2.2	0.3	0.5	2.0	0.3	1.9	0.3	1.2	0.2	1.2	0.2
742257	0.148	0.04	0.73	0.26	0.04	0.07	104	13.5	25.9	0.24	3.1	11.1	2.2	0.2	0.4	1.9	0.3	1.9	0.4	1.2	0.2	1.2	0.2
742258	0.109	0.03	0.83	0.53	0.03	0.06	173	13.9	26.0	0.25	3.1	11.2	2.1	0.2	0.4	1.9	0.3	1.8	0.3	1.1	0.2	1.2	0.2
742259	0.118	0.04	0.94	0.36	< 0.02	0.07	152	14.0	26.4	0.13	3.1	11.4	2.2	0.3	0.4	2.0	0.3	1.9	0.4	1.1	0.2	1.2	0.2
742260D	0.214	0.04	1.09	0.35	< 0.02	0.07	169	14.1	26.9	0.17	3.1	11.7	2.3	0.3	0.5	2.1	0.3	1.9	0.4	1.1	0.2	1.2	0.2
742261	0.109	0.05	1.22	0.49	0.03	0.07	296	13.9	26.1	0.08	3.0	11.1	2.1	0.3	0.5	1.9	0.3	1.8	0.3	1.1	0.2	1.1	0.2
742262	0.092	0.07	1.63	0.33	< 0.02	0.11	232	12.8	25.8	0.23	3.1	11.9	2.4	0.5	0.5	2.1	0.3	2.0	0.4	1.2	0.2	1.2	0.2
742263	0.186	< 0.02	1.85	0.12	0.27	0.16	24.2	11.8	22.6	0.06	2.9	11.7	2.7	2.5	0.6	2.7	0.4	2.6	0.5	1.5	0.2	1.4	0.2
742264	0.275	0.11	0.97	0.15	0.14	1.11	26.4	7.9	17.1	2.11	2.3	9.66	2.3	1.4	0.6	2.3	0.3	2.3	0.4	1.4	0.2	1.2	0.2
742265	0.363	0.08	0.67	0.22	0.21	1.18	22.3	7.2	16.5	0.77	2.3	9.70	2.2	1.5	0.6	2.2	0.3	2.1	0.4	1.2	0.2	1.2	0.2
742266	0.312	0.05	0.60	0.09	0.21	0.71	19.7	10.5	22.5	0.88	3.0	12.2	2.6	2.3	0.7	2.3	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742267	0.178	0.03	0.59	0.09	0.07	0.77	17.7	8.0	18.2	1.39	2.5	10.2	2.3	3.0	0.5	2.1	0.3	1.9	0.3	1.1	0.2	0.9	0.1
742268	0.206	0.04	0.70	0.08	0.07	0.63	22.5	9.8	22.0	1.52	2.9	12.1	2.6	7.4	0.7	2.4	0.3	2.1	0.4	1.2	0.2	1.0	0.2
742269	0.165	0.04	0.54	0.10	0.12	0.34	14.8	8.3	18.1	0.16	2.4	10.0	2.2	9.5	0.6	1.9	0.3	1.7	0.3	0.9	0.1	0.8	0.1

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742270	1.58	0.04	0.80	4.23	0.91	3.17	36.4	10.7	23.5	< 0.01	3.2	13.6	3.2	5.0	0.7	3.0	0.4	2.6	0.5	1.3	0.2	1.1	0.2
742271	0.915	< 0.02	0.59	0.07	0.09	0.16	16.7	7.0	14.8	0.06	2.0	8.03	1.8	3.9	0.5	1.5	0.2	1.3	0.2	0.7	< 0.1	0.6	0.1
742272	0.268	< 0.02	0.41	0.09	0.19	0.31	15.8	10.5	21.4	0.62	2.7	11.4	2.5	2.8	0.7	2.1	0.3	1.7	0.3	0.9	0.1	0.8	0.1
742273	0.117	< 0.02	0.41	0.06	0.09	0.35	17.1	7.3	15.6	0.07	2.1	8.81	2.0	1.9	0.5	1.8	0.2	1.5	0.3	0.8	0.1	0.7	0.1
742274	0.149	< 0.02	0.28	0.07	0.10	0.27	16.1	8.1	17.1	0.18	2.3	9.32	2.0	1.3	0.5	1.7	0.2	1.5	0.3	0.8	0.1	0.7	0.1
742275	0.301	< 0.02	0.39	0.06	0.42	0.40	16.3	8.1	17.5	0.05	2.3	9.50	2.0	1.5	0.5	1.7	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742276	0.723	0.04	0.41	0.10	0.57	0.34	9.0	2.1	5.30	0.50	0.8	3.43	1.0	1.5	0.3	1.3	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742277	0.527	0.07	0.52	0.07	0.19	0.41	10.1	4.8	11.4	0.79	1.6	6.63	1.6	1.2	0.4	1.6	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742278	0.624	0.05	1.31	0.10	0.31	0.43	11.5	5.2	13.0	0.26	1.8	7.75	1.9	1.4	0.4	1.6	0.2	1.4	0.3	0.9	0.1	0.9	0.1
742279	0.554	0.06	0.27	0.08	0.19	0.37	8.9	8.1	18.9	2.27	2.6	10.6	2.2	2.0	0.5	1.8	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742280D	0.707	0.07	0.55	0.10	0.21	0.41	10.5	8.5	20.1	2.39	2.7	11.2	2.4	1.8	0.6	1.9	0.2	1.5	0.3	0.9	0.1	0.9	0.1
742281	0.344	0.08	0.31	0.18	0.06	0.34	15.5	7.3	15.6	3.80	2.1	9.17	2.1	0.8	0.6	2.0	0.3	2.0	0.4	1.2	0.2	1.1	0.2
742282	0.607	0.10	0.45	0.08	0.26	0.46	9.0	12.7	27.3	4.18	3.6	14.2	2.8	1.7	0.6	2.3	0.3	1.7	0.3	0.9	0.1	0.8	0.1
742283	0.452	0.12	0.19	0.07	0.15	0.44	8.4	6.7	16.0	4.09	2.2	9.23	2.0	1.2	0.5	1.7	0.2	1.3	0.2	0.7	0.1	0.7	0.1
742284	0.454	0.11	0.53	0.13	0.07	0.49	12.5	6.9	16.8	10.1	2.4	9.83	2.2	1.0	0.6	2.0	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742285	0.445	0.18	0.40	0.07	0.07	0.43	11.9	4.9	11.6	11.3	1.6	7.03	1.7	1.0	0.5	1.6	0.2	1.4	0.3	0.8	0.1	0.7	0.1
742286	0.465	0.12	0.25	0.11	0.13	0.40	8.9	2.9	8.49	4.59	1.4	6.42	1.9	1.0	0.5	1.8	0.3	1.7	0.3	0.9	0.1	0.9	0.1
742287	0.346	0.10	0.53	0.08	0.07	0.48	10.1	4.9	12.3	5.43	1.8	7.94	2.0	1.0	0.5	1.9	0.3	1.8	0.3	1.0	0.1	1.0	0.2
742288	0.457	0.09	31.4	0.10	0.08	0.56	10.3	8.8	19.8	6.12	2.7	11.0	2.3	1.2	0.6	1.9	0.2	1.6	0.3	0.9	0.1	0.8	0.1
742289	0.276	0.05	0.66	0.30	0.03	1.09	158	3.4	8.57	0.77	1.4	7.13	2.1	0.6	0.7	2.5	0.4	3.1	0.6	1.9	0.3	1.7	0.3
742290	0.181	0.02	0.52	0.43	< 0.02	0.36	133	6.4	13.8	0.12	2.0	8.36	1.9	0.7	0.4	1.8	0.3	1.7	0.3	0.9	0.1	0.7	< 0.1
742291	0.579	0.18	0.89	0.12	0.10	0.52	15.0	5.0	12.4	8.22	1.8	7.70	2.1	1.9	0.5	2.0	0.3	1.8	0.3	1.0	0.2	1.0	0.1
742292	0.597	0.13	0.99	0.08	0.14	0.38	10.3	2.5	7.21	4.71	1.1	5.23	1.6	2.3	0.5	2.0	0.3	1.9	0.4	1.1	0.2	1.0	0.1
742293	0.618	0.06	1.02	0.11	0.15	0.57	12.3	3.7	9.49	2.23	1.4	6.60	1.8	2.5	0.5	2.0	0.3	1.9	0.4	1.1	0.2	1.0	0.2
742294	0.435	0.04	1.02	0.20	0.07	0.70	17.3	4.6	11.5	5.21	1.7	7.89	2.2	2.4	0.6	2.2	0.3	2.1	0.4	1.2	0.2	1.0	0.2
742295	0.792	0.05	0.65	0.14	0.20	0.40	13.4	6.5	16.5	7.93	2.3	9.82	2.2	3.6	0.5	1.7	0.2	1.4	0.2	0.8	0.1	0.7	0.1
742296	1.19	0.05	0.60	0.29	0.43	0.38	11.2	6.7	15.8	7.00	2.2	9.22	2.1	4.8	0.5	1.5	0.2	1.1	0.2	0.6	< 0.1	0.6	< 0.1
742297	0.707	0.06	0.70	0.08	0.26	0.45	13.9	8.7	19.5	2.99	2.6	10.6	2.2	4.7	0.5	1.8	0.2	1.4	0.3	0.8	0.1	0.7	0.1
742298	0.851	0.06	0.42	0.14	0.28	0.68	15.6	6.7	14.6	3.39	2.0	8.53	1.9	2.8	0.4	1.6	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742299	0.600	0.02	0.48	0.13	0.15	0.57	28.1	8.2	19.8	6.05	2.7	11.3	2.4	3.7	0.6	1.9	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742300D	0.564	0.02	0.31	0.11	0.20	0.54	9.0	7.5	18.0	5.89	2.4	10.4	2.3	3.5	0.5	1.9	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742301	0.898	0.03	0.59	0.12	0.21	0.43	9.5	3.0	8.36	15.0	1.3	5.59	1.6	3.4	0.4	1.8	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742302	0.767	0.09	0.62	0.24	0.15	0.51	8.2	4.8	13.6	10.8	2.0	8.64	2.2	4.7	0.5	1.9	0.3	1.6	0.3	0.9	0.1	0.8	0.1
742303	0.586	0.08	0.59	0.26	0.10	0.59	14.5	6.4	15.9	4.28	2.2	9.51	2.1	3.2	0.5	1.8	0.2	1.6	0.3	0.9	0.1	0.8	0.1
742304	0.832	0.06	1.31	0.12	0.11	0.63	11.8	8.3	19.7	3.49	2.7	11.2	2.5	3.7	0.6	2.1	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742305	0.746	0.05	0.53	0.09	0.13	0.61	8.6	5.1	12.9	3.96	1.8	7.83	2.0	4.5	0.5	1.8	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742306	0.771	0.05	0.44	0.10	0.11	0.55	9.4	4.9	11.4	6.76	1.8	7.99	1.9	3.7	0.5	1.9	0.3	1.9	0.3	1.1	0.2	1.0	0.2
742307	0.536	0.04	2.14	0.07	0.24	0.59	10.5	7.6	16.3	1.96	2.5	10.3	2.3	3.5	0.6	2.0	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742308	0.551	< 0.02	0.75	0.07	0.12	0.47	12.2	6.9	14.4	2.10	2.2	9.15	2.1	2.9	0.5	1.8	0.2	1.6	0.3	0.9	0.1	0.9	0.1
742309	0.808	0.04	1.19	0.08	0.23	0.39	11.8	9.4	19.2	6.89	2.8	11.4	2.3	3.9	0.5	1.6	0.2	1.2	0.2	0.7	0.1	0.8	0.1
742310	0.882	0.19	2.87	0.92	0.18	0.17	31.7	4.4	9.60	0.15	1.7	7.69	2.0	6.1	0.5	2.1	0.3	2.0	0.4	1.1	0.2	0.9	0.1
742311	0.714	0.03	0.46	0.11	0.12	0.48	11.8	8.0	16.3	7.35	2.5	10.2	2.3	5.8	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1

Results

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742312	0.706	0.03	1.18	0.13	0.07	0.56	10.5	6.7	14.6	2.32	2.3	9.78	2.3	6.2	0.6	2.0	0.3	1.7	0.3	1.0	0.1	1.0	0.1
742313	0.856	0.05	0.49	0.15	0.27	0.52	10.6	4.7	10.5	34.2	1.6	7.07	1.9	4.2	0.5	1.8	0.2	1.6	0.3	1.0	0.1	0.9	0.1
742314	0.332	0.05	4.05	0.30	0.12	0.39	41.5	14.7	26.4	4.12	3.7	14.2	2.8	0.4	0.7	2.5	0.3	2.3	0.4	1.4	0.2	1.3	0.2
742315	0.417	0.04	1.10	0.16	0.17	0.38	19.5	13.8	25.6	1.42	3.6	14.1	2.9	0.7	0.7	2.4	0.3	2.0	0.4	1.2	0.2	1.1	0.2
742316	0.420	0.04	0.86	0.17	0.21	0.44	19.2	14.5	26.4	3.65	3.7	14.5	2.9	0.5	0.7	2.4	0.3	2.0	0.4	1.2	0.2	1.1	0.2
742317	0.483	0.03	0.87	0.18	0.18	0.41	14.4	13.5	25.6	2.56	3.7	14.7	2.9	1.1	0.6	2.4	0.3	2.0	0.4	1.1	0.2	1.0	0.2
742318	0.519	0.03	1.49	0.20	0.10	0.44	23.6	14.7	26.9	2.73	3.8	14.9	2.9	0.5	0.7	2.5	0.3	2.2	0.4	1.2	0.2	1.1	0.2
742319	0.356	0.03	1.32	0.22	0.16	0.41	22.2	14.1	25.8	3.04	3.6	14.2	2.9	0.6	0.7	2.6	0.3	2.3	0.4	1.3	0.2	1.2	0.2
742320D	0.348	0.03	0.90	0.22	0.15	0.40	22.1	13.6	24.8	2.92	3.5	13.8	2.8	0.5	0.7	2.4	0.3	2.2	0.4	1.3	0.2	1.1	0.2
742321	0.219	0.03	1.19	0.17	0.07	0.37	27.5	15.8	28.2	5.15	4.0	15.8	3.2	0.6	0.8	2.7	0.4	2.3	0.4	1.3	0.2	1.2	0.2
742322	0.261	0.03	1.26	0.21	0.09	0.39	30.0	15.3	27.6	0.83	3.8	15.0	2.9	0.5	0.7	2.5	0.3	2.0	0.4	1.1	0.2	1.1	0.2
742323	0.831	0.04	0.89	0.20	0.13	0.33	22.2	13.2	24.1	1.15	3.4	13.6	2.8	0.7	0.7	2.4	0.3	2.1	0.4	1.2	0.2	1.1	0.2
742324	0.669	0.03	1.28	0.17	0.29	0.43	20.6	13.8	25.0	0.66	3.5	13.7	2.8	0.6	0.7	2.4	0.3	2.2	0.4	1.2	0.2	1.1	0.2
742325	1.50	0.06	0.86	0.20	0.56	0.69	8.9	13.0	24.0	5.31	3.5	13.7	2.9	2.1	0.8	2.7	0.4	2.3	0.4	1.3	0.2	1.2	0.2
742326	0.940	0.17	0.74	0.16	0.16	0.55	19.6	16.8	30.1	74.4	4.2	16.6	3.2	0.9	0.9	2.6	0.3	2.1	0.4	1.2	0.2	1.1	0.2
742327	1.29	0.24	1.07	0.18	0.18	0.55	12.9	18.1	36.3	166	5.3	21.3	4.2	1.5	1.3	3.5	0.4	2.9	0.5	1.7	0.2	1.5	0.2
742328	0.264	0.03	0.83	0.05	< 0.02	0.42	41.5	59.1	95.1	0.21	11.2	34.4	5.0	0.2	0.4	3.5	0.4	2.7	0.5	1.4	0.2	1.0	0.1
742329	0.763	0.04	0.75	0.11	0.38	0.33	12.4	7.5	15.0	1.73	2.2	9.11	2.1	2.7	0.5	1.8	0.2	1.6	0.3	0.9	0.1	0.9	0.1
742330	1.65	0.06	1.93	7.77	0.32	1.82	23.6	17.7	29.5	0.66	3.8	14.3	2.7	2.9	0.6	2.4	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742331	0.593	0.08	0.48	0.09	0.18	0.36	11.4	8.9	17.9	9.88	2.6	10.9	2.4	2.3	0.6	2.0	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742332	0.421	0.03	0.60	0.11	0.12	0.40	11.0	10.5	21.7	1.76	3.2	13.0	2.7	1.4	0.6	2.2	0.3	1.8	0.3	1.0	0.2	0.9	0.1
742333	0.364	0.03	0.52	0.11	0.05	0.38	10.2	9.8	19.7	2.89	3.0	11.8	2.5	1.7	0.6	2.1	0.3	1.8	0.3	1.1	0.2	1.0	0.2
742334	0.960	0.06	0.57	0.18	0.50	0.37	10.7	4.0	9.96	21.8	1.6	7.07	2.0	2.5	0.5	1.8	0.3	1.8	0.3	1.1	0.2	1.0	0.1
742335	1.32	0.11	0.64	0.11	0.71	0.32	10.9	9.9	19.6	4.86	2.9	11.8	2.5	1.7	0.6	1.9	0.2	1.6	0.3	0.9	0.1	0.9	0.1
742336	1.14	0.09	0.75	0.15	0.50	0.32	12.4	10.3	19.4	4.33	2.8	11.6	2.5	2.3	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742337	1.40	0.05	1.33	0.16	0.62	0.35	19.4	9.2	17.6	4.02	2.6	10.8	2.5	1.6	0.6	2.3	0.3	2.1	0.4	1.2	0.2	1.0	0.2
742338	1.09	0.05	0.82	0.19	0.32	0.36	13.3	10.3	19.3	11.2	2.8	11.8	2.6	1.1	0.7	2.5	0.4	2.4	0.4	1.4	0.2	1.2	0.2
742339	0.748	0.06	0.66	0.14	0.29	0.36	9.0	11.4	22.8	14.2	3.4	13.6	3.0	1.2	0.7	2.6	0.3	2.3	0.4	1.3	0.2	1.0	0.2
742340D	0.615	0.06	0.68	0.14	0.31	0.37	9.1	11.6	23.1	14.3	3.4	13.9	2.9	1.2	0.8	2.6	0.4	2.3	0.4	1.2	0.2	1.0	0.1
742341	1.10	0.05	1.11	0.14	0.47	0.46	7.8	13.3	25.6	2.62	3.2	15.8	2.9	1.9	0.8	2.8	0.4	2.1	0.4	1.1	0.2	1.0	0.2
742342	2.90	0.10	0.47	0.20	1.87	0.34	5.9	9.8	21.4	6.84	3.2	13.1	2.9	1.9	0.7	2.4	0.3	2.0	0.3	1.0	0.1	0.8	0.1
742343	1.21	0.08	0.80	0.22	0.59	0.36	14.0	10.5	20.0	8.25	3.0	12.0	2.6	2.6	0.6	2.3	0.3	2.1	0.4	1.1	0.2	0.9	0.1
742344	2.12	0.15	0.57	0.24	1.38	0.38	9.0	9.6	18.5	5.16	2.7	11.4	2.5	1.3	0.6	2.2	0.3	1.8	0.3	1.0	0.1	0.8	0.1
742345	2.86	0.25	0.52	0.19	1.74	0.37	5.8	8.3	18.7	5.61	2.9	11.9	2.6	1.2	0.6	2.2	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742346	5.49	0.22	0.48	0.16	3.47	0.37	8.7	6.9	15.7	6.58	2.4	9.77	2.1	0.9	0.5	1.7	0.2	1.4	0.2	0.7	0.1	0.7	0.1
742347	1.53	0.27	0.57	0.24	0.74	0.36	8.6	9.2	19.8	7.80	3.0	12.3	2.6	1.4	0.7	2.5	0.3	2.3	0.4	1.3	0.2	1.2	0.2
742348	0.894	0.22	0.71	0.19	0.52	0.30	10.8	8.2	15.9	4.56	2.4	9.76	2.2	0.6	0.6	2.1	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742349	0.929	0.21	0.58	0.26	0.62	0.45	9.7	9.8	20.1	3.99	3.0	12.3	2.7	0.9	0.6	2.4	0.3	2.3	0.4	1.3	0.2	1.2	0.2
742350	0.557	0.06	1.09	0.74	0.11	0.88	46.8	6.8	13.8	0.49	2.2	9.40	2.2	2.8	0.5	2.0	0.3	2.0	0.4	1.1	0.1	0.8	0.1
742351	0.693	0.17	1.39	0.23	0.29	0.37	21.5	10.4	20.2	1.90	3.0	12.2	2.7	0.6	0.7	2.4	0.3	2.3	0.4	1.3	0.2	1.1	0.2
742352	0.701	0.16	0.80	0.19	0.24	0.41	23.4	10.6	19.5	0.11	2.5	12.3	2.4	0.7	0.7	2.5	0.4	2.2	0.4	1.4	0.2	1.2	0.2
742353	1.20	0.14	0.93	0.21	0.43	0.39	19.0	12.2	22.5	0.80	3.3	13.0	2.9	0.7	0.7	2.5	0.4	2.4	0.5	1.4	0.2	1.2	0.2

Results**Activation Laboratories Ltd.****Report: A17-09876**

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
742354	1.21	0.12	0.90	0.25	0.72	0.40	40.0	12.1	23.1	4.70	3.4	13.4	2.9	0.6	0.6	2.4	0.4	2.5	0.5	1.4	0.2	1.3	0.2
742355	0.742	0.10	0.73	0.23	0.59	0.42	12.8	8.7	16.4	0.07	2.4	9.77	2.2	0.9	0.5	2.0	0.3	2.0	0.4	1.2	0.2	1.1	0.2
742356	0.404	0.18	0.89	0.34	0.49	0.42	16.3	7.0	12.7	4.83	1.9	7.85	1.7	0.6	0.5	1.6	0.2	1.6	0.3	0.9	0.1	0.8	0.1
742357	0.570	0.12	0.63	0.25	0.48	0.43	18.1	7.8	14.5	0.35	2.1	8.83	2.0	0.8	0.5	1.9	0.3	1.9	0.4	1.1	0.2	1.0	0.1
742358	0.281	0.10	0.63	0.30	0.25	0.39	31.7	5.4	10.4	0.18	1.6	7.03	1.7	0.3	0.4	1.7	0.3	1.8	0.3	1.1	0.1	0.9	0.1
742359	0.518	0.11	0.79	0.22	0.37	0.44	17.2	7.5	14.2	1.36	2.1	8.73	2.0	0.5	0.5	1.9	0.3	1.9	0.4	1.2	0.2	1.0	0.1
742360D	0.598	0.10	0.80	0.21	0.40	0.43	15.6	7.5	14.1	1.40	2.1	8.44	2.0	0.3	0.5	1.9	0.3	1.9	0.4	1.1	0.2	1.0	0.1
742361	0.306	0.11	0.68	0.21	0.19	0.42	22.8	8.5	16.1	0.19	2.3	9.62	2.1	0.4	0.5	1.9	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742362	0.499	0.17	0.80	0.34	0.32	0.42	14.0	8.3	15.3	1.04	2.3	9.39	2.0	0.7	0.6	1.9	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742363	0.571	0.14	0.66	0.30	0.32	0.40	27.2	8.4	15.1	18.1	2.2	9.33	2.1	0.6	0.6	2.0	0.3	2.0	0.4	1.1	0.2	0.9	0.1
742364	0.373	0.10	0.61	0.19	0.26	0.39	25.7	10.2	18.2	4.63	2.6	10.5	2.3	0.4	0.6	2.1	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742365	0.263	0.10	0.68	0.23	0.20	0.42	21.1	7.9	14.7	0.27	2.1	8.83	2.0	0.7	0.4	1.9	0.3	1.8	0.3	1.1	0.1	0.9	0.1
742366	0.185	0.10	0.65	0.22	0.12	0.42	24.6	9.1	16.1	2.07	2.3	9.41	2.1	0.6	0.6	2.0	0.3	1.8	0.3	1.1	0.1	0.9	0.1
742367	0.569	0.06	1.09	0.29	0.30	0.23	46.2	11.6	20.3	0.55	2.8	11.0	2.3	0.5	0.6	2.1	0.3	2.0	0.3	1.1	0.2	1.0	0.1
742368	1.77	0.07	0.92	0.31	1.22	0.22	31.2	11.1	19.6	0.52	2.7	10.5	2.2	0.7	0.5	2.0	0.3	1.9	0.4	1.1	0.2	1.0	0.1

Activation Laboratories Ltd.

Results

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742186	0.1	< 0.05	0.2	0.008	18.0	0.45	28.5	2.8	1.1	< 10
742187	< 0.1	< 0.05	0.1	0.010	4.8	0.47	36.2	2.9	1.0	< 10
742188	< 0.1	< 0.05	0.1	0.010	10.2	0.60	42.1	2.7	1.3	10
742189	0.2	< 0.05	< 0.1	0.017	21.5	0.59	42.7	3.0	1.4	10
742190	< 0.1	< 0.05	0.5	0.164	25.7	0.19	49.7	2.7	0.7	10
742191	< 0.1	< 0.05	< 0.1	0.005	19.8	0.44	37.9	2.6	1.1	10
742192	< 0.1	< 0.05	< 0.1	0.005	18.8	0.41	52.5	2.9	1.2	20
742193	0.2	< 0.05	< 0.1	0.019	29.0	0.36	37.1	2.9	1.4	20
742194	0.3	< 0.05	< 0.1	0.009	47.9	0.47	89.9	2.2	1.2	20
742195	0.3	< 0.05	< 0.1	0.081	61.7	0.49	42.5	2.3	1.2	30
742196	0.4	< 0.05	0.1	0.031	33.0	0.44	72.2	2.2	1.1	20
742197	0.2	< 0.05	< 0.1	0.024	17.7	0.34	32.2	2.5	1.0	20
742198	0.3	< 0.05	< 0.1	0.030	23.4	0.35	35.2	2.4	1.1	< 10
742199	0.3	< 0.05	< 0.1	0.064	26.2	0.27	30.0	2.8	1.2	< 10
742200D	0.2	< 0.05	< 0.1	0.067	24.4	0.26	28.5	2.8	1.1	10
742201	0.4	< 0.05	0.1	0.003	0.7	0.12	5.68	7.1	3.4	< 10
742202	0.4	< 0.05	0.1	< 0.001	1.9	0.11	5.79	7.4	3.6	< 10
742203	0.1	< 0.05	< 0.1	0.003	11.3	0.22	33.7	3.2	1.2	< 10
742204	0.3	< 0.05	< 0.1	0.019	43.1	0.21	28.7	2.1	0.8	20
742205	0.2	< 0.05	< 0.1	0.001	10.2	0.21	37.7	2.5	1.0	20
742206	< 0.1	< 0.05	< 0.1	0.001	1.3	0.08	3.92	3.7	1.3	< 10
742207	0.1	< 0.05	< 0.1	< 0.001	0.7	0.07	19.7	3.9	1.5	< 10
742208	0.2	< 0.05	< 0.1	0.002	15.7	0.15	46.9	2.6	1.1	< 10
742209	0.3	< 0.05	< 0.1	0.003	7.6	0.31	61.2	2.3	0.9	80
742210	0.1	< 0.05	2.9	0.039	384	0.40	22.9	9.8	4.8	100
742211	0.2	< 0.05	< 0.1	0.006	31.9	0.25	43.4	2.1	0.8	50
742212	0.4	< 0.05	< 0.1	0.013	109	0.42	51.6	2.1	0.9	100
742213	0.3	< 0.05	< 0.1	0.007	53.0	0.30	24.6	2.2	0.9	< 10
742214	0.2	< 0.05	< 0.1	0.003	23.1	0.22	27.3	2.5	0.9	< 10
742215	0.3	< 0.05	< 0.1	0.017	70.0	0.20	25.3	1.9	1.2	< 10
742216	0.4	< 0.05	< 0.1	0.061	54.4	0.47	38.3	2.4	1.1	10
742217	0.4	< 0.05	< 0.1	0.018	36.1	0.51	38.9	2.2	1.4	20
742218	0.3	< 0.05	< 0.1	0.001	51.2	0.33	32.9	2.9	1.2	30
742219	0.2	< 0.05	< 0.1	< 0.001	46.2	0.32	133	2.6	1.1	30
742220D	0.2	< 0.05	< 0.1	0.001	47.2	0.32	143	2.7	1.1	40
742221	0.4	< 0.05	< 0.1	0.019	73.0	0.37	35.7	2.4	1.0	20
742222	0.3	< 0.05	< 0.1	0.003	163	0.38	76.0	2.3	1.0	30
742223	0.2	< 0.05	< 0.1	0.025	67.4	0.24	19.2	2.8	0.9	10
742224	0.4	< 0.05	< 0.1	0.001	26.2	0.33	46.9	2.7	1.2	< 10
742225	0.2	< 0.05	< 0.1	< 0.001	42.0	0.38	72.3	2.3	1.0	60
742226	0.2	< 0.05	< 0.1	0.001	21.7	0.46	33.1	2.4	1.0	20
742227	0.3	< 0.05	< 0.1	0.009	22.8	0.52	49.8	2.3	1.1	10

Results

Activation Laboratories Ltd.

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742228	0.4	< 0.05	< 0.1	0.020	37.2	0.40	21.8	2.2	1.0	< 10
742229	0.4	< 0.05	< 0.1	0.012	214	0.49	29.9	2.4	1.0	20
742230	0.1	< 0.05	0.2	0.022	80.1	0.27	16.6	1.2	0.9	160
742231	0.5	< 0.05	0.3	0.009	38.9	0.31	58.9	2.8	1.3	< 10
742232	0.5	< 0.05	0.6	0.017	18.5	0.36	39.7	2.8	1.3	< 10
742233	0.5	< 0.05	0.3	0.010	31.3	0.51	69.5	3.2	1.4	< 10
742234	0.4	< 0.05	0.2	0.002	53.8	0.50	62.5	3.2	1.3	< 10
742235	0.4	< 0.05	0.4	0.004	25.7	0.24	38.9	3.2	1.4	< 10
742236	0.4	< 0.05	0.4	0.007	17.7	0.40	63.7	2.6	1.3	< 10
742237	0.3	< 0.05	0.3	0.004	7.4	0.35	116	3.1	1.4	< 10
742238	0.3	< 0.05	0.3	0.009	28.1	0.33	21.5	2.7	1.6	< 10
742239	0.3	< 0.05	0.5	0.035	6.1	0.25	12.5	4.0	1.7	< 10
742240D	0.3	< 0.05	0.6	0.035	7.1	0.26	13.3	4.1	1.7	< 10
742241	0.3	< 0.05	0.5	< 0.001	< 0.5	0.08	5.03	6.6	2.3	< 10
742242	0.4	< 0.05	0.7	< 0.001	0.7	0.06	5.73	6.7	2.3	< 10
742243	0.1	< 0.05	0.2	< 0.001	< 0.5	0.05	5.79	7.1	2.6	< 10
742244	0.4	< 0.05	0.4	< 0.001	2.0	0.05	104	9.5	3.7	20
742245	0.3	< 0.05	0.2	< 0.001	< 0.5	0.04	4.64	6.9	2.6	< 10
742246	0.1	< 0.05	0.2	< 0.001	1.9	0.04	4.04	7.1	2.8	< 10
742247	0.2	< 0.05	0.1	< 0.001	< 0.5	0.04	10.3	7.3	2.6	< 10
742248	0.3	< 0.05	0.2	< 0.001	0.7	0.03	6.81	7.2	2.5	< 10
742249	0.2	< 0.05	0.1	0.001	2.0	0.05	11.0	6.5	2.2	< 10
742250	0.3	< 0.05	0.2	< 0.001	2.0	0.08	7.58	26.1	3.2	< 10
742251	0.4	< 0.05	0.1	0.001	1.9	0.03	8.90	7.4	2.5	< 10
742252	0.4	< 0.05	0.1	< 0.001	0.7	0.03	5.61	7.1	2.3	< 10
742253	0.4	< 0.05	< 0.1	< 0.001	2.1	0.02	5.13	7.5	2.6	< 10
742254	0.4	< 0.05	< 0.1	< 0.001	2.6	0.02	7.23	7.0	2.5	< 10
742255	0.6	< 0.05	0.2	< 0.001	3.3	0.02	7.74	7.2	2.7	< 10
742256	0.5	< 0.05	0.4	< 0.001	3.3	0.02	14.0	7.3	2.6	< 10
742257	0.4	< 0.05	0.2	< 0.001	2.1	0.02	7.37	7.3	2.7	< 10
742258	0.5	< 0.05	0.2	0.001	2.7	< 0.02	7.27	7.4	2.6	< 10
742259	0.4	< 0.05	0.2	< 0.001	0.7	0.02	8.92	7.1	2.5	< 10
742260D	0.5	< 0.05	0.2	0.001	2.6	0.03	10.2	7.1	2.4	< 10
742261	0.4	< 0.05	0.2	< 0.001	2.0	0.02	10.9	6.7	2.2	< 10
742262	0.5	< 0.05	0.5	< 0.001	0.7	0.03	6.90	6.5	2.2	< 10
742263	0.4	< 0.05	1.8	0.072	0.7	0.04	16.0	4.2	1.2	< 10
742264	0.3	< 0.05	0.8	0.002	4.7	0.39	28.7	3.5	1.9	< 10
742265	0.4	< 0.05	0.2	0.001	6.0	0.62	16.3	2.2	1.4	< 10
742266	0.3	< 0.05	< 0.1	0.001	4.1	0.49	13.7	2.4	1.1	< 10
742267	0.2	< 0.05	< 0.1	< 0.001	0.7	0.56	8.50	2.1	1.0	< 10
742268	0.3	< 0.05	< 0.1	< 0.001	4.7	0.49	9.50	2.4	1.1	< 10
742269	0.2	< 0.05	< 0.1	0.002	1.5	0.29	4.57	2.6	0.9	< 10

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742270	< 0.1	< 0.05	1.4	0.300	170	0.82	16.3	1.9	0.6	140
742271	0.3	< 0.05	< 0.1	0.001	7.5	0.17	3.11	2.3	0.8	< 10
742272	0.4	< 0.05	< 0.1	0.001	3.7	0.21	7.24	2.9	1.0	< 10
742273	0.2	< 0.05	< 0.1	0.001	2.2	0.26	3.51	2.5	0.9	< 10
742274	0.2	< 0.05	< 0.1	0.002	2.2	0.25	6.36	2.4	0.9	< 10
742275	0.2	< 0.05	< 0.1	0.009	4.3	0.28	5.27	2.9	1.0	< 10
742276	0.3	< 0.05	< 0.1	0.006	14.3	0.27	12.9	2.0	1.0	< 10
742277	0.1	< 0.05	< 0.1	0.008	9.5	0.33	8.78	2.3	1.1	< 10
742278	0.2	< 0.05	< 0.1	0.013	29.3	0.31	14.5	2.5	1.2	< 10
742279	0.2	< 0.05	0.2	0.012	10.1	0.31	46.4	2.5	1.2	< 10
742280D	0.1	< 0.05	0.1	0.012	11.5	0.33	48.7	2.6	1.2	10
742281	0.4	< 0.05	< 0.1	0.008	8.6	0.24	27.1	1.9	0.7	10
742282	0.2	< 0.05	< 0.1	0.021	15.5	0.34	126	2.6	1.1	10
742283	0.3	< 0.05	< 0.1	0.017	6.0	0.39	96.1	1.8	0.9	20
742284	0.2	< 0.05	0.1	0.020	8.4	0.36	118	2.0	0.9	20
742285	0.2	< 0.05	< 0.1	0.011	14.6	0.37	135	1.6	0.8	60
742286	0.2	< 0.05	< 0.1	0.013	12.5	0.38	107	1.5	0.8	< 10
742287	0.2	< 0.05	< 0.1	0.017	9.7	0.39	107	2.4	0.9	< 10
742288	0.1	< 0.05	< 0.1	0.019	0.7	0.46	58.1	2.2	1.0	10
742289	< 0.1	< 0.05	< 0.1	0.002	1.4	0.15	20.0	0.4	0.2	< 10
742290	0.2	< 0.05	30.4	0.001	1.3	0.07	3.48	1.2	0.4	30
742291	< 0.1	< 0.05	0.1	0.019	6.0	0.47	52.4	1.9	0.9	20
742292	< 0.1	< 0.05	0.1	0.017	10.0	0.48	93.7	1.6	1.1	10
742293	0.2	< 0.05	< 0.1	0.013	4.1	0.44	64.5	1.7	0.9	< 10
742294	0.2	< 0.05	< 0.1	0.012	18.6	0.51	162	2.1	0.8	20
742295	0.2	< 0.05	< 0.1	0.012	42.0	0.44	198	2.6	0.9	30
742296	0.2	< 0.05	< 0.1	0.022	49.1	0.41	63.8	2.4	0.9	20
742297	0.2	< 0.05	< 0.1	0.195	89.5	0.45	54.1	2.9	0.9	< 10
742298	0.2	< 0.05	< 0.1	0.054	118	0.44	88.0	2.0	0.9	< 10
742299	0.2	< 0.05	< 0.1	0.011	100	0.41	91.2	2.5	0.9	20
742300D	0.1	< 0.05	< 0.1	0.010	44.9	0.39	90.3	2.4	0.9	10
742301	0.2	< 0.05	< 0.1	0.011	13.3	0.45	136	1.8	0.9	50
742302	0.3	< 0.05	< 0.1	0.033	25.1	0.48	102	1.6	0.9	30
742303	0.1	< 0.05	< 0.1	0.033	35.6	0.48	145	2.1	1.0	20
742304	< 0.1	< 0.05	< 0.1	0.015	157	0.55	78.6	3.2	1.2	10
742305	0.2	< 0.05	< 0.1	0.011	52.1	0.56	156	2.1	1.1	< 10
742306	0.2	< 0.05	< 0.1	0.007	16.5	0.48	89.2	2.1	1.2	10
742307	< 0.1	< 0.05	< 0.1	0.012	14.9	0.47	41.7	2.3	1.2	10
742308	0.2	< 0.05	< 0.1	0.004	21.4	0.41	52.2	2.3	1.1	< 10
742309	0.2	< 0.05	< 0.1	0.041	18.9	0.46	64.9	2.7	1.2	20
742310	< 0.1	< 0.05	0.3	0.190	68.4	0.11	13.8	0.4	< 0.1	20
742311	0.3	< 0.05	< 0.1	0.006	32.1	0.42	234	2.6	1.1	20

Results

Activation Laboratories Ltd.

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742312	0.4	< 0.05	< 0.1	0.003	18.9	0.45	93.7	2.3	1.1	< 10
742313	0.2	< 0.05	< 0.1	0.004	22.9	0.43	243	2.1	1.2	80
742314	< 0.1	< 0.05	< 0.1	0.001	3.2	0.14	13.6	3.6	1.8	< 10
742315	< 0.1	< 0.05	< 0.1	0.007	5.6	0.15	29.7	3.2	1.5	< 10
742316	0.1	< 0.05	< 0.1	0.002	8.0	0.13	58.0	3.1	1.6	< 10
742317	0.1	< 0.05	< 0.1	0.007	8.9	0.20	49.0	2.8	1.5	< 10
742318	< 0.1	< 0.05	0.1	0.005	2.0	0.16	72.7	3.1	1.6	< 10
742319	0.1	< 0.05	< 0.1	0.001	5.6	0.10	119	3.1	1.7	< 10
742320D	0.1	< 0.05	0.3	< 0.001	5.7	0.09	120	3.1	1.7	< 10
742321	< 0.1	< 0.05	< 0.1	0.005	< 0.5	0.11	134	2.9	1.7	< 10
742322	< 0.1	< 0.05	< 0.1	0.002	3.1	0.15	23.0	3.0	1.6	< 10
742323	< 0.1	< 0.05	< 0.1	0.004	4.4	0.21	23.8	3.3	1.7	< 10
742324	< 0.1	< 0.05	< 0.1	< 0.001	4.3	0.11	35.3	3.3	1.6	< 10
742325	0.2	< 0.05	0.1	0.001	15.5	0.15	155	2.9	1.4	10
742326	< 0.1	< 0.05	< 0.1	0.005	5.6	0.19	239	3.2	1.6	100
742327	< 0.1	< 0.05	< 0.1	0.002	10.7	0.27	636	3.5	1.5	290
742328	0.2	< 0.05	0.4	< 0.001	1.3	0.08	7.89	24.9	3.7	< 10
742329	0.2	< 0.05	< 0.1	0.013	51.8	0.36	33.0	3.3	1.7	< 10
742330	0.1	< 0.05	2.5	0.037	73.0	0.36	23.7	8.4	4.3	90
742331	0.2	< 0.05	< 0.1	0.011	32.9	0.40	79.3	2.6	1.9	30
742332	0.3	< 0.05	< 0.1	0.013	17.5	0.44	37.5	2.6	1.3	< 10
742333	0.2	< 0.05	< 0.1	0.005	13.2	0.31	53.8	2.6	1.4	< 10
742334	0.2	< 0.05	< 0.1	0.001	44.5	0.36	109	2.7	1.2	30
742335	0.2	< 0.05	< 0.1	0.001	59.6	0.31	81.6	2.8	1.2	< 10
742336	0.3	< 0.05	< 0.1	0.002	41.2	0.34	59.5	2.6	1.3	20
742337	0.3	< 0.05	< 0.1	0.002	30.8	0.25	138	2.4	1.0	20
742338	0.4	< 0.05	0.1	0.001	16.7	0.23	59.5	2.3	1.0	50
742339	0.1	< 0.05	< 0.1	0.002	23.7	0.26	152	2.3	0.9	60
742340D	0.1	< 0.05	< 0.1	< 0.001	23.6	0.27	145	2.3	0.9	50
742341	0.2	< 0.05	< 0.1	0.002	23.6	0.42	143	2.8	1.1	30
742342	0.2	< 0.05	< 0.1	0.001	95.8	0.31	205	2.1	1.1	10
742343	0.2	< 0.05	< 0.1	0.006	72.7	0.34	181	2.4	1.1	30
742344	0.2	< 0.05	< 0.1	0.516	113	0.32	215	2.1	1.0	20
742345	0.2	< 0.05	< 0.1	0.158	148	0.36	121	2.0	1.1	10
742346	0.2	< 0.05	< 0.1	0.428	73.8	0.30	170	1.8	0.9	20
742347	0.2	< 0.05	< 0.1	0.013	71.3	0.38	386	2.0	1.2	30
742348	0.3	< 0.05	< 0.1	0.006	132	0.33	137	2.4	1.3	< 10
742349	0.2	< 0.05	< 0.1	0.139	52.9	0.37	83.5	2.5	1.3	30
742350	< 0.1	< 0.05	0.4	0.144	22.7	0.14	42.2	2.1	0.6	20
742351	0.2	< 0.05	< 0.1	0.088	165	0.34	24.8	2.7	1.2	< 10
742352	0.1	< 0.05	< 0.1	0.054	33.9	0.33	12.1	2.9	1.3	10
742353	< 0.1	< 0.05	< 0.1	0.057	80.7	0.28	17.8	2.8	1.2	< 10

Results**Activation Laboratories Ltd.****Report: A17-09876**

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742354	< 0.1	< 0.05	< 0.1	0.043	79.8	0.27	39.4	2.9	1.2	10
742355	0.3	< 0.05	0.2	0.027	20.8	0.27	10.2	2.7	1.1	< 10
742356	0.3	< 0.05	0.2	0.062	23.9	0.31	19.6	2.3	1.2	20
742357	0.3	< 0.05	0.2	0.080	13.0	0.27	12.9	2.4	1.2	< 10
742358	0.3	< 0.05	0.4	0.020	20.4	0.29	8.79	2.7	1.1	< 10
742359	0.3	< 0.05	0.2	0.073	48.7	0.30	29.4	2.7	1.2	< 10
742360D	0.3	< 0.05	0.2	0.066	54.1	0.27	28.5	2.6	1.3	< 10
742361	0.2	< 0.05	0.2	0.025	15.0	0.31	16.0	3.2	1.5	< 10
742362	0.3	< 0.05	0.2	0.081	28.7	0.35	35.6	2.8	1.3	< 10
742363	0.3	< 0.05	0.3	0.062	24.7	0.32	45.1	3.1	1.3	50
742364	< 0.1	< 0.05	< 0.1	0.123	35.2	0.27	22.6	3.4	1.2	20
742365	0.4	< 0.05	0.2	0.047	11.5	0.34	14.0	3.1	1.2	< 10
742366	0.2	< 0.05	< 0.1	0.036	7.8	0.27	11.1	3.0	1.1	< 10
742367	0.2	< 0.05	0.2	0.001	5.1	0.12	11.4	3.0	1.6	< 10
742368	0.3	< 0.05	0.2	0.001	8.2	0.11	26.3	2.9	1.5	< 10

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP																			
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
MP-1b Meas				48.2		17800				870	2.5	537			3.01	8.4				< 0.1		0.030	
MP-1b Cert				47.0		23000.	00			954.00	2.47	527.00	00		3.07	8.19				0.024		0.029	
MP-1b Meas				50.9		19100				920	2.6	558			3.22	8.8				< 0.1		0.032	
MP-1b Cert				47.0		23000.	00			954.00	2.47	527.00	00		3.07	8.19				0.024		0.029	
PK2 Meas	4900	6050	4820																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4660	5720	4640																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4750	5770	4760																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4770	5830	4800																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4620	5860	4690																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	5000	6180	4860																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
CDN-PGMS-25 Meas	491	1930	425																				
CDN-PGMS-25 Cert	483	1830	400																				
SDC-1 1F2 Assay (%) Meas						< 30	630	< 10						20	50	0.003				40		0.086	
SDC-1 1F2 Assay (%) Cert						0.220	630	3.00						18	64.0	0.0030				34.0		0.088	
SDC-1 1F2 Assay						< 30	640	< 10						20	60	0.003				40		0.090	

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na		
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	%	%															
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1		
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																				
(%) Meas																									
SDC-1 1F2 Assay (%) Cert						0.220	630	3.00				18	64.0	0.0030					34.0		0.088				
SBC-1 1F2-assay Kamloops (%) Meas						< 30	800	< 10	< 20		< 3	20	100	0.003		30			180		0.117	< 0.001			
SBC-1 1F2-assay Kamloops (%) Cert						25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024			
SBC-1 1F2-assay Kamloops (%) Meas						< 30	790	< 10	< 20		< 3	20	90	0.003		30			180		0.122	< 0.001			
SBC-1 1F2-assay Kamloops (%) Cert						25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024			
DNC-1a 1F2-assay Kamloops (%) Meas							100					60	280	0.009					< 10		0.119				
DNC-1a 1F2-assay Kamloops (%) Cert							118					57.0	270	0.01						5.20		0.116			
DNC-1a 1F2-assay Kamloops (%) Meas							100					50	270	0.010					< 10		0.122				
DNC-1a 1F2-assay Kamloops (%) Cert							118					57.0	270	0.01						5.20		0.116			
GXR-6 1F2-assay Kamloops (%) Meas				< 3.0	15.0	310	1470	< 10	< 20	0.2	< 3	10	80	0.006	5.4	30	< 10	1.9	40	0.6	0.102	< 0.001	0.1		
GXR-6 1F2-assay Kamloops (%) Cert					1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.104		
GXR-6 1F2-assay Kamloops (%) Meas					< 3.0	14.7	270	1470	< 10	< 20	0.2	< 3	10	70	0.005	5.4	30	< 10	1.9	40	0.6	0.104	< 0.001	0.1	
GXR-6 1F2-assay Kamloops (%) Cert					1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.104		
GXR-4 1F2-assay Kamloops (%) Meas					< 3.0	7.3	80	1600	< 10	< 20	1.0	< 3	10	50	0.657	3.2	10	< 10	4.5	< 10	1.7	0.014	0.032	0.5	
GXR-4 1F2-assay Kamloops (%) Cert						4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP									
GXR-4 1F2-assay Kamloops (%) Meas				< 3.0	6.4	100	1590	< 10	20	1.0	< 3	20	50	0.649	3.1	20	< 10	4.5	10	1.7	0.019	0.033	0.5
GXR-4 1F2-assay Kamloops (%) Cert				4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas				< 3.0		< 30						70	12300	0.238									0.002
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert				0.860		57.0						75.0	8650	0.233									0.0009
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas				< 3.0		50						70	11700	0.230									0.002
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert				0.860		57.0						75.0	8650	0.233									0.0009
OREAS 14P 1F2-assay Kamloops (%) Meas												700		0.931	36.2								
OREAS 14P 1F2-assay Kamloops (%) Cert												750		0.997	37.2								
OREAS 14P 1F2-assay Kamloops (%) Meas												700		0.962	34.9								
OREAS 14P 1F2-assay Kamloops (%) Cert												750		0.997	37.2								
GBW 07238 1F2-assay Kamloops (%) Meas						< 30							0.012		20							1.11	1.48
GBW 07238 1F2-assay Kamloops (%) Cert						1.60							0.00936		25.0							1.08	1.51
GBW 07238 1F2-assay Kamloops (%) Meas						< 30							0.010		30							1.14	1.47

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%								
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
GBW 07238 1F2-assay Kamloops (%) Cert						1.60								0.00936		25.0						1.08	1.51
GBW 07239 1F2-assay Kamloops (%) Meas						< 30			< 20			10		0.004		20						1.18	0.110
GBW 07239 1F2-assay Kamloops (%) Cert						1.0			1.0			13.5		0.00486		23.1						1.15	0.110
GBW 07239 1F2-assay Kamloops (%) Meas						< 30			< 20			10		0.005		20						1.24	0.112
GBW 07239 1F2-assay Kamloops (%) Cert						1.0			1.0			13.5		0.00486		23.1						1.15	0.110
SdAR-M2 (U.S.G.S.) Meas						1000	< 10	< 20			5	10	40	0.023		20	< 10		20			< 0.001	
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05			5.1	12.4	49.6	0.0236		17.6	1.44		20			0.001	
SdAR-M2 (U.S.G.S.) Meas						1010	< 10	< 20			5	10	50	0.026		20	< 10		20			0.001	
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05			5.1	12.4	49.6	0.0236		17.6	1.44		20			0.001	
CCU-1e Meas				207.2	0.1	880			0.1	79	310			31.2		< 10			0.7	0.012			
CCU-1e Cert				205	0.139	1010			0.129	74.2	301			30.7		10.4			0.706	0.00960			
CCU-1e Meas				205.8	0.1	950			0.1	80	320			32.6		< 10			0.7	0.015			
CCU-1e Cert				205	0.139	1010			0.129	74.2	301			30.7		10.4			0.706	0.00960			
CDN-PGMS-28 Meas	197	1840	1560																				
CDN-PGMS-28 Cert	193.000	1750	1510																				
CDN-PGMS-28 Meas	183	1660	1420																				
CDN-PGMS-28 Cert	193.000	1750	1510																				
CDN-PGMS-28 Meas	228	1530	1300																				
CDN-PGMS-28 Cert	193.000	1750	1510																				
742194 Orig	62	< 5	< 5																				
742194 Dup	67	< 5	< 5																				
742198 Orig				< 3.0	8.4	< 30	860	< 10	< 20	3.9	< 3	< 10	< 10	0.004	4.5	20	< 10	2.6	10	1.2	0.169	< 0.001	
742198 Dup				< 3.0	8.4	< 30	790	< 10	< 20	3.9	< 3	10	10	0.005	4.2	20	< 10	2.6	< 10	1.2	0.162	< 0.001	
																						1.9	

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%								
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
742202 Orig	< 2	< 5	< 5																					
742202 Dup	< 2	< 5	< 5																					
742212 Orig				< 3.0	10.0	< 30	1670	< 10	< 20	0.5	23	10	40	0.010	5.3	20	< 10	4.3	< 10	1.1	0.095	< 0.001	0.1	
742212 Dup				< 3.0	9.3	< 30	1600	< 10	< 20	0.5	22	10	10	0.009	5.0	20	< 10	4.2	< 10	1.1	0.087	0.001	0.1	
742215 Orig	69	< 5	< 5																					
742215 Dup	45	< 5	< 5																					
742225 Orig																								
742225 Dup																								
742229 Orig	149	< 5	< 5																					
742229 Dup	157	< 5	< 5																					
742235 Orig	21	< 5	< 5	< 3.0	8.7	< 30	1080	< 10	< 20	2.9	< 3	10	20	0.004	4.9	20	< 10	2.4	10	1.5	0.262	< 0.001	2.8	
742235 Split PREP DUP	23	< 5	< 5	< 3.0	8.4	< 30	980	< 10	< 20	2.8	< 3	10	< 10	0.004	4.1	10	< 10	2.4	< 10	1.5	0.248	< 0.001	2.7	
742236 Orig	19	< 5	< 5	< 3.0	8.4	< 30	1260	< 10	< 20	2.3	< 3	30	10	0.002	7.1	20	< 10	3.0	< 10	1.3	0.219	< 0.001	1.7	
742236 Dup	19	< 5	< 5	< 3.0	8.7	< 30	1160	< 10	< 20	2.4	< 3	30	10	0.002	7.1	10	< 10	3.1	< 10	1.3	0.224	< 0.001	1.7	
742238 Orig																								
742238 Dup																								
742249 Orig	< 2	< 5	< 5																					
742249 Dup	< 2	< 5	< 5																					
742250 Orig				< 3.0	7.5	< 30	300	< 10	< 20	0.4	< 3	< 10	20	< 0.001	1.1	10	< 10	4.6	10	< 0.1	0.024	< 0.001	2.7	
742250 Dup				< 3.0	6.3	< 30	310	< 10	< 20	0.4	< 3	< 10	20	< 0.001	1.1	20	< 10	4.7	10	0.1	0.023	< 0.001	2.8	
742261 Orig																								
742261 Dup																								
742263 Orig	< 2	< 5	< 5																					
742263 Dup	6	< 5	< 5																					
742275 Orig				< 3.0	7.5	< 30	1060	< 10	< 20	3.2	< 3	20	< 10	< 0.001	4.4	10	< 10	3.7	< 10	0.7	0.030	< 0.001	0.5	
742275 Dup				< 3.0	7.8	< 30	1150	< 10	< 20	3.2	< 3	10	20	< 0.001	4.4	10	< 10	3.8	< 10	0.7	0.030	< 0.001	0.5	
742285 Orig	13	< 5	< 5	< 3.0	8.2	< 30	1090	< 10	< 20	1.9	12	< 10	10	0.002	4.0	20	< 10	3.2	< 10	0.9	0.075	< 0.001	1.8	
742285 Split PREP DUP	11	< 5	< 5	< 3.0	8.5	< 30	930	< 10	< 20	2.0	10	< 10	10	0.002	3.5	20	< 10	3.1	< 10	0.9	0.075	< 0.001	1.8	
742287 Orig																								
742287 Dup																								
742288 Orig				< 3.0	8.4	< 30	1440	< 10	< 20	1.4	6	< 10	10	0.006	4.2	10	< 10	3.2	< 10	1.1	0.069	< 0.001	1.7	
742288 Dup				< 3.0	8.9	< 30	1480	< 10	< 20	1.4	5	< 10	< 10	0.007	4.3	20	< 10	3.3	< 10	1.2	0.071	< 0.001	1.8	
742297 Orig	132	< 5	< 5																					
742297 Dup	149	< 5	< 5																					
742301 Orig																								
742301 Dup																								
742305 Orig	77	< 5	< 5																					
742305 Dup	88	< 5	< 5																					
742313 Orig				< 3.0	8.7	< 30	1090	< 10	< 20	0.9	40	10	< 10	0.003	4.6	10	< 10	4.1	< 10	0.8	0.071	0.002	1.6	
742313 Dup				< 3.0	8.5	< 30	1040	< 10	< 20	0.8	38	20	10	0.002	4.0	10	< 10	3.9	< 10	0.7	0.066	< 0.001	1.5	
742317 Orig																								

QC

Activation Laboratories Ltd.

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS											
GXR-1 Meas																	0.007	< 1	0.040	7.9	0.8	12	0.078
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520
GXR-1 Meas																	0.007	< 1	0.040	7.6	0.7	12	0.078
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520
GXR-4 Meas																	0.127	2	0.130	9.6	1.5	2	0.153
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564
GXR-4 Meas																	0.125	2	0.130	9.3	1.5	3	0.151
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564
GXR-6 Meas																	< 1	0.040	29.3	1.0	4	0.099	
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104	
GXR-6 Meas																	< 1	0.030	27.0	0.8	4	0.096	
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104	
MP-1b Meas		21300	12.8									1210		16.8									
MP-1b Cert		20900	13.79									1100.000		16.7									
MP-1b Meas		21600	13.7									860		17.4									
MP-1b Cert		20900	13.79									1100.000		16.7									
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas	0.003		< 30		< 50	< 40	170					30	< 50		0.011	< 50							
SDC-1 1F2 Assay (%) Cert	0.0038		25.0		0.540	17.0	180					102	0.80		0.0103	290							
SDC-1 1F2 Assay (%) Meas	0.004		< 30		< 50	< 40	180					40	< 50		0.010	< 50							
SDC-1 1F2 Assay (%) Cert	0.0038		25.0		0.540	17.0	180					102	0.80		0.0103	290							
SBC-1 1F2-assay Kamloops (%)	0.009		< 30		< 50	< 40	180					< 50	< 100	210	< 50	40	0.019	130					

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Meas																							
SBC-1 1F2-assay Kamloops (%) Cert	0.00828			35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134						
SBC-1 1F2-assay Kamloops (%) Meas	0.009			< 30		< 50	< 40	180			< 50	< 100	230	< 50	40	0.020	140						
SBC-1 1F2-assay Kamloops (%) Cert	0.00828			35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134						
DNC-1a 1F2-assay Kamloops (%) Meas	0.026					< 50	< 40	140					150		20	0.007	< 50						
DNC-1a 1F2-assay Kamloops (%) Cert	0.0247					0.960	31.0	144					148.00	00		18.0	0.007	38.0					
DNC-1a 1F2-assay Kamloops (%) Meas	0.026					< 50	< 40	140					150		20	0.006	< 50						
DNC-1a 1F2-assay Kamloops (%) Cert	0.0247					0.960	31.0	144					148.00	00		18.0	0.007	38.0					
GXR-6 1F2-assay Kamloops (%) Meas	0.002	0.04	90	< 0.1	< 50	< 40	40	< 20		< 50	< 100	150	< 50	10	0.013	110							
GXR-6 1F2-assay Kamloops (%) Cert	0.0027	0.0350	101	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110							
GXR-6 1F2-assay Kamloops (%) Meas	0.003	0.03	80	< 0.1	< 50	< 40	40	< 20		< 50	< 100	130	< 50	10	0.012	90							
GXR-6 1F2-assay Kamloops (%) Cert	0.0027	0.0350	101	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110							
GXR-4 1F2-assay Kamloops (%) Meas	0.004	0.13	40	1.8	< 50	< 40	220	< 20		< 50	< 100	90	< 50	20	0.007	50							
GXR-4 1F2-assay Kamloops (%) Cert	0.0042	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186							
GXR-4 1F2-assay Kamloops (%) Meas	0.004	0.13	40	1.8	< 50	< 40	230	< 20		< 50	< 100	90	< 50	20	0.007	< 50							
GXR-4 1F2-assay Kamloops (%) Cert	0.0042	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186							

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%		
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas	0.223				1.2										0.017									
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert	0.225				1.20										0.0133									
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas	0.223				1.1										0.016									
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert	0.225				1.20										0.0133									
OREAS 14P 1F2-assay Kamloops (%) Meas	2.02																							
OREAS 14P 1F2-assay Kamloops (%) Cert	2.10																							
OREAS 14P 1F2-assay Kamloops (%) Meas	2.02																							
OREAS 14P 1F2-assay Kamloops (%) Cert	2.10																							
GBW 07238 1F2-assay Kamloops (%) Meas	0.003		< 30											3700	10	0.007								
GBW 07238 1F2-assay Kamloops (%) Cert	0.00178		18.7											3600	11.4	0.00655								
GBW 07238 1F2-assay Kamloops (%) Meas	0.002		< 30											3180	10	0.007								
GBW 07238 1F2-assay Kamloops (%) Cert	0.00178		18.7											3600	11.4	0.00655								
GBW 07239 1F2-assay Kamloops (%)	0.002		< 30											1240	40	0.013								

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert	0.00209		26.1										1000.00	34.2	0.012								
GBW 07239 1F2-assay Kamloops (%) Meas	0.003		30										1270	40	0.013								
GBW 07239 1F2-assay Kamloops (%) Cert	0.00209		26.1										1000.00	34.2	0.012								
SdAR-M2 (U.S.G.S.) Meas	0.005		820		< 40	140				< 100	30	< 50	30	0.080	100					13.8	4.8		
SdAR-M2 (U.S.G.S.) Cert	0.005		808		4.1	144				2.53	25.2	2.8	32.7	0.076	259					17.9	6.6		
SdAR-M2 (U.S.G.S.) Meas	0.005		840		< 40	150				< 100	30	< 50	30	0.082	130					13.1	4.6		
SdAR-M2 (U.S.G.S.) Cert	0.005		808		4.1	144				2.53	25.2	2.8	32.7	0.076	259					17.9	6.6		
CCU-1e Meas			7060	33.8	80			60		< 50					3.02								
CCU-1e Cert			7030	35.3	104			61.8		2.69					3.02								
CCU-1e Meas			7260	35.0	60			50		< 50					3.04								
CCU-1e Cert			7030	35.3	104			61.8		2.69					3.02								
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
742194 Orig																							
742194 Dup																							
742198 Orig	< 0.001	0.09	50	3.5	< 50	< 40	460	40	0.3	< 50	< 100	130	< 50	20	0.028	80	0.004	3	0.100	10.9	0.4	2	0.060
742198 Dup	< 0.001	0.09	< 30	3.3	< 50	< 40	460	< 20	0.3	< 50	< 100	120	< 50	20	0.028	80	0.005	3	0.100	11.7	0.4	2	0.061
742202 Orig																							
742202 Dup																							
742212 Orig	< 0.001	0.10	70	4.5	< 50	< 40	90	< 20	0.4	< 50	< 100	150	< 50	20	0.203	90	0.003	4	0.100	5.9	0.3	1	0.036
742212 Dup	< 0.001	0.10	70	4.3	< 50	< 40	90	< 20	0.4	< 50	< 100	140	< 50	20	0.194	80	0.003	5	0.110	6.3	0.4	1	0.039
742215 Orig																							

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%		
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS								
742215 Dup																								
742225 Orig																	0.002	4	0.110	11.0	0.5	1	0.041	
742225 Dup																	0.002	4	0.110	10.6	0.4	< 1	0.041	
742229 Orig																								
742229 Dup																								
742235 Orig	< 0.001	0.10	60	3.4	< 50	< 40	410	< 20	0.3	< 50	< 100	130	< 50	20	0.020	80	0.097	3	0.110	10.5	0.3	2	0.066	
742235 Split PREP DUP	< 0.001	0.08	< 30	2.9	< 50	< 40	400	< 20	0.3	< 50	< 100	110	< 50	20	0.018	80	0.096	3	0.110	10.4	0.3	2	0.068	
742236 Orig	< 0.001	0.10	80	6.4	< 50	< 40	290	< 20	0.3	< 50	< 100	120	< 50	20	0.017	80								
742236 Dup	< 0.001	0.10	70	6.2	< 50	< 40	300	< 20	0.3	< 50	< 100	120	< 50	20	0.018	80								
742238 Orig																		0.013	7	0.100	7.4	0.3	3	0.061
742238 Dup																		0.013	6	0.100	7.0	0.3	3	0.059
742249 Orig																								
742249 Dup																								
742250 Orig	< 0.001	0.01	< 30	< 0.1	< 50	< 40	90	< 20	0.1	< 50	< 100	< 20	< 50	20	0.004	70								
742250 Dup	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	100	20	< 0.1	< 50	< 100	< 20	< 50	20	0.002	60								
742261 Orig																	0.152	< 1	0.060	5.5	0.4	2	0.108	
742261 Dup																	0.152	< 1	0.060	5.7	0.4	1	0.113	
742263 Orig																								
742263 Dup																								
742275 Orig	< 0.001	0.09	< 30	6.2	< 50	< 40	310	< 20	0.3	< 50	< 100	110	< 50	20	0.003	70	0.001	6	0.100	3.2	0.3	< 1	0.038	
742275 Dup	< 0.001	0.09	< 30	6.2	< 50	< 40	340	< 20	0.3	< 50	< 100	110	< 50	20	0.003	70	0.002	6	0.100	3.4	0.2	< 1	0.040	
742285 Orig	< 0.001	0.10	140	4.7	< 50	< 40	240	< 20	0.3	< 50	< 100	110	< 50	20	0.098	80	0.002	5	0.110	4.9	0.3	< 1	0.057	
742285 Split PREP DUP	< 0.001	0.09	160	4.4	< 50	< 40	240	30	0.2	< 50	< 100	100	< 50	20	0.096	70	0.003	5	0.110	5.4	0.4	1	0.060	
742287 Orig																	0.002	4	0.100	12.0	0.5	< 1	0.051	
742287 Dup																	0.002	4	0.100	12.0	0.5	< 1	0.054	
742288 Orig	< 0.001	0.10	60	4.2	< 50	< 40	190	40	0.3	< 50	< 100	110	< 50	20	0.044	80								
742288 Dup	0.001	0.10	60	4.3	< 50	< 40	190	50	0.3	< 50	< 100	120	< 50	20	0.046	80								
742297 Orig																								
742297 Dup																								
742301 Orig																	0.003	4	0.090	3.2	0.4	< 1	0.055	
742301 Dup																	0.003	4	0.090	3.2	0.4	2	0.056	
742305 Orig																								
742305 Dup																								
742313 Orig	< 0.001	0.09	240	3.8	< 50	< 40	160	< 20	0.3	< 50	< 100	80	< 50	20	0.126	70								
742313 Dup	< 0.001	0.08	230	3.5	< 50	< 40	160	< 20	0.2	< 50	< 100	80	< 50	20	0.124	70								
742317 Orig																	0.007	2	0.090	8.8	0.4	1	0.090	
742317 Dup																	0.007	2	0.090	9.1	0.4	2	0.092	
742318 Orig																								
742318 Dup																								
742331 Orig																	0.003	4	0.100	4.4	0.5	< 1	0.073	
742331 Dup																	0.003	4	0.090	4.3	0.3	< 1	0.069	

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
GXR-1 Meas	0.16	0.63	0.04	1410	0.89	1.2	79	7	895	24.1	7.3	36.9	1010	745	5.36		352	2.3	160	22.9	12.8	< 0.1	15.2
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0
GXR-1 Meas	0.16	0.64	0.04	1390	0.86	1.2	76	8	898	24.4	7.2	36.5	1060	747	5.41		355	2.3	162	22.9	12.8	< 0.1	15.0
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0
GXR-4 Meas	1.52	2.77	1.68	19.7	0.86	6.4	90	57	139	3.19	14.3	39.8	6330	70.2	10.8		98.9	101	69.4	11.2	8.7	0.4	303
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310
GXR-4 Meas	1.52	2.78	1.69	20.1	0.83	6.1	86	57	138	3.20	14.2	39.0	6590	69.4	10.8		99.3	102	70.0	11.2	8.6	0.4	298
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310
GXR-6 Meas	0.39	7.46	1.19	0.17	0.20	23.3	188	80	1100	5.91	13.3	23.8	62.1	119	13.9		204	70.7	38.0	6.54	9.1	< 0.1	1.60
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40
GXR-6 Meas	0.38	7.24	1.15	0.17	0.18	22.5	175	78	1060	5.82	12.8	22.8	61.0	117	14.0		200	68.3	36.6	6.33	8.9	< 0.1	1.53
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40
MP-1b Meas																							
MP-1b Cert																							
MP-1b Meas																							
MP-1b Cert																							
PK2 Meas																							
PK2 Cert																							
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PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm													
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01	
Method Code	AR-MS																							
Kamloops (%) Cert																								
SBC-1 1F2-assay Kamloops (%) Meas																								
SBC-1 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-4 1F2-assay Kamloops (%) Meas																								
GXR-4 1F2-assay Kamloops (%) Cert																								
GXR-4 1F2-assay Kamloops (%) Meas																								
GXR-4 1F2-assay Kamloops (%) Cert																								
OREAS 13b (4 Acid) 1F2-assay																								

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01
Method Code	AR-MS																						
Kamloops (%) Meas																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS												
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Meas																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
SdAR-M2 (U.S.G.S.) Meas				1.13		2.3	19	9			13.2	50.3	246	846	3.35			21.0	21.2	16.7	6.2	2.6	12.5
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3
SdAR-M2 (U.S.G.S.) Meas				1.10		2.4	18	9			13.0	48.6	254	835	3.37			20.7	21.1	16.5	6.0	2.6	12.1
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3
CCU-1e Meas																							
CCU-1e Cert																							
CCU-1e Meas																							
CCU-1e Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
742194 Orig																							
742194 Dup																							
742198 Orig	0.97	1.87	0.47	0.61	2.72	4.0	63	3	1660	4.33	9.7	2.8	34.2	268	6.37	< 0.1	3.1	17.8	186	10.9	13.0	< 0.1	7.02
742198 Dup	1.02	2.00	0.51	0.63	2.97	4.2	68	3	1770	4.61	10.2	2.9	35.0	280	6.74	< 0.1	3.1	19.6	200	11.5	13.8	< 0.1	7.48
742202 Orig																							
742202 Dup																							
742212 Orig	0.79	1.71	0.57	0.60	0.46	2.0	25	4	951	5.02	10.6	2.5	95.7	2000	3.88	< 0.1	20.0	21.2	20.8	6.63	16.0	< 0.1	5.32
742212 Dup	0.83	1.88	0.63	0.63	0.48	2.2	27	3	1000	5.24	11.0	2.2	99.0	2090	4.25	< 0.1	21.2	23.8	25.3	6.99	16.7	< 0.1	4.90
742215 Orig																							
742215 Dup																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742225 Orig	1.23	2.08	0.52	1.12	0.60	2.3	34	3	1690	4.98	10.5	2.3	24.3	1910	4.84	< 0.1	16.4	18.4	23.3	6.70	15.2	< 0.1	2.15
742225 Dup	1.17	2.06	0.53	1.06	0.56	2.4	33	3	1640	4.84	10.1	2.3	25.7	1840	4.85	< 0.1	16.0	19.4	22.3	6.64	8.2	< 0.1	2.72
742229 Orig																							
742229 Dup																							
742235 Orig	1.32	2.17	0.44	1.08	2.10	5.9	81	9	2500	4.86	13.8	3.6	44.9	182	7.95	< 0.1	3.8	17.0	113	13.6	12.5	0.2	3.00
742235 Split PREP DUP	1.31	2.16	0.42	1.06	2.14	5.8	79	6	2460	4.84	13.6	3.0	43.9	180	7.76	< 0.1	3.8	16.4	114	13.6	12.3	0.2	2.81
742236 Orig																							
742236 Dup																							
742238 Orig	1.02	2.22	0.75	1.96	1.51	4.6	66	6	1930	7.98	39.2	2.9	12.7	122	6.74	0.1	4.1	26.2	42.6	12.9	9.0	< 0.1	4.49
742238 Dup	1.00	2.23	0.75	1.85	1.47	4.6	66	6	1880	7.83	38.6	2.8	12.0	120	6.78	0.1	3.6	25.8	40.9	12.5	8.9	< 0.1	4.43
742249 Orig																							
742249 Dup																							
742250 Orig																							
742250 Dup																							
742261 Orig	0.78	1.53	0.13	0.17	1.48	4.4	69	13	1050	2.86	6.8	2.8	19.0	78.6	6.80	0.1	1.7	3.1	177	9.43	12.7	0.4	1.24
742261 Dup	0.79	1.54	0.13	0.18	1.49	4.3	70	13	1060	2.88	6.8	2.7	19.1	74.9	6.79	0.1	1.9	3.1	178	9.45	14.0	0.4	1.13
742263 Orig																							
742263 Dup																							
742275 Orig	0.38	1.25	0.59	1.00	3.00	0.9	15	7	277	4.32	12.3	4.1	4.11	21.8	2.71	< 0.1	1.5	21.3	258	6.81	9.9	< 0.1	3.02
742275 Dup	0.39	1.38	0.64	1.06	3.11	0.9	17	7	283	4.45	12.5	4.3	4.22	23.7	2.93	< 0.1	1.3	22.5	265	7.12	10.6	< 0.1	2.86
742285 Orig	0.61	1.43	0.61	0.60	1.73	1.1	17	7	698	4.03	6.3	3.3	25.9	1030	3.28	< 0.1	1.0	23.2	96.3	7.01	8.2	< 0.1	1.45
742285 Split PREP DUP	0.62	1.52	0.65	0.59	1.83	1.3	18	7	716	4.11	6.2	2.8	27.1	1040	3.65	< 0.1	1.1	25.6	107	7.47	7.8	< 0.1	1.60
742287 Orig	1.15	1.75	0.56	0.42	1.10	5.0	36	28	1000	4.71	10.7	17.7	30.8	510	4.12	< 0.1	2.3	21.2	20.3	9.17	9.6	< 0.1	3.20
742287 Dup	1.16	1.82	0.60	0.40	1.03	4.9	37	27	999	4.65	10.6	17.4	30.9	513	4.33	< 0.1	2.1	22.8	20.0	9.14	7.4	< 0.1	2.91
742288 Orig																							
742288 Dup																							
742297 Orig																							
742297 Dup																							
742301 Orig	0.44	1.49	0.80	1.16	1.02	2.1	19	5	802	4.07	8.9	2.3	33.4	1070	3.40	< 0.1	3.6	33.5	69.0	7.94	10.2	< 0.1	9.32
742301 Dup	0.45	1.55	0.83	1.14	1.01	2.4	20	6	798	4.05	8.7	3.1	36.3	1060	3.56	< 0.1	3.7	35.3	74.7	7.93	11.0	< 0.1	9.16
742305 Orig																							
742305 Dup																							
742313 Orig																							
742313 Dup																							
742317 Orig	0.88	1.63	0.46	0.64	1.09	4.2	44	8	1720	3.96	9.5	3.6	29.3	223	6.21	< 0.1	2.3	19.9	59.2	9.81	5.1	< 0.1	5.15
742317 Dup	0.90	1.63	0.46	0.65	1.17	4.2	45	9	1750	4.03	9.7	3.4	28.8	218	6.22	< 0.1	2.4	20.0	60.4	9.92	5.7	< 0.1	5.28
742318 Orig																							
742318 Dup																							
742331 Orig	0.54	1.53	0.74	0.42	0.57	2.4	26	6	758	4.12	9.8	2.8	46.0	746	4.26	< 0.1	8.1	31.7	13.2	8.84	9.1	< 0.1	6.86
742331 Dup	0.52	1.50	0.73	0.40	0.53	2.3	26	5	734	4.00	9.7	2.7	43.6	734	4.14	< 0.1	7.3	30.9	12.8	8.63	7.7	< 0.1	6.08
742332 Orig																							

QC

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	29.5	0.62	24.1	75.6	12.9	2.47	172	5.1	10.2	2.42		6.14	2.1	12.6	0.4	3.0	0.6	4.0			0.3	1.8	0.2
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-1 Meas	29.3	0.61	23.8	75.2	12.7	2.41	168	5.0	8.80	2.41		6.11	2.0	12.3	0.4	2.9	0.5	3.9			0.3	1.8	0.2
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-4 Meas	3.52	0.20	6.14	3.50	1.04	2.50	31.2	46.5	91.4	< 0.01		37.5	5.8	5.2	1.2	4.1	0.5	2.6			0.1	0.8	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-4 Meas	3.41	0.19	6.02	3.38	0.96	2.44	30.4	45.6	77.8	< 0.01		36.4	5.6	5.3	1.1	4.0	0.5	2.6			0.1	0.8	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-6 Meas	0.440	0.06	1.13	1.75	0.07	3.63	1200	11.4	32.5	0.10		11.8	2.3	0.3	0.5	1.9	0.2	1.6			0.7	< 0.1	
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	
GXR-6 Meas	0.404	0.05	1.15	1.74	0.08	3.46	1140	10.9	27.3	0.09		11.7	2.3	0.4	0.5	1.8	0.2	1.6			0.7	< 0.1	
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	
MP-1b Meas																							
MP-1b Cert																							
MP-1b Meas																							
MP-1b Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
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PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
CDN-PGMS-25 Meas																							
CDN-PGMS-25 Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Method Code	AR-MS																						
Kamloops (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							
GXR-4 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							
GXR-4 1F2-assay Kamloops (%) Cert																							
OREAS 13b (4 Acid) 1F2-assay																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
Kamloops (%) Meas																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Meas																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
SdAR-M2 (U.S.G.S.) Meas						0.89	129	44.5	97.8	5.58	11.1	39.3	6.5		0.6	4.7	0.6	3.8	0.6	2.0	0.3	1.6	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
SdAR-M2 (U.S.G.S.) Meas						0.86	125	43.1	82.5	5.58	10.8	37.8	6.4		0.6	4.4	0.6	3.6	0.6	1.9	0.3	1.6	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
CCU-1e Meas																							
CCU-1e Cert																							
CCU-1e Meas																							
CCU-1e Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
742194 Orig																							
742194 Dup																							
742198 Orig	0.326	0.07	0.83	0.14	0.25	0.98	20.8	10.9	19.7	1.40	3.1	12.6	2.8	0.8	0.7	2.5	0.3	2.2	0.4	1.2	0.2	1.0	0.2
742198 Dup	0.274	0.07	0.58	0.13	0.26	1.02	20.6	11.6	20.8	1.41	3.2	13.0	2.9	0.7	0.7	2.5	0.4	2.3	0.4	1.2	0.2	1.1	0.2
742202 Orig																							
742202 Dup																							
742212 Orig	2.04	0.40	0.74	0.20	1.43	0.51	7.9	7.8	16.3	21.9	2.6	11.0	2.3	2.1	0.4	1.7	0.2	1.3	0.2	0.8	0.1	0.7	0.1
742212 Dup	1.73	0.41	0.26	0.20	1.45	0.56	6.9	8.7	18.2	22.0	2.9	12.0	2.6	1.7	0.5	1.8	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742215 Orig																							
742215 Dup																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742225 Orig	1.21	0.73	0.24	0.20	1.04	0.48	7.7	9.0	18.6	25.0	2.9	11.7	2.5	1.4	0.6	2.0	0.2	1.4	0.2	0.7	< 0.1	0.7	0.1
742225 Dup	1.22	0.71	0.22	0.18	1.07	0.47	8.1	8.4	17.5	24.4	2.7	10.9	2.3	1.6	0.6	1.9	0.2	1.4	0.2	0.7	< 0.1	0.6	0.1
742229 Orig																							
742229 Dup																							
742235 Orig	0.446	0.06	0.48	0.23	0.52	0.38	13.1	9.8	17.7	0.35	2.8	11.3	2.6	0.9	0.7	2.5	0.4	2.5	0.5	1.5	0.2	1.3	0.2
742235 Split PREP DUP	0.466	0.06	3.67	0.20	0.50	0.38	12.3	9.7	18.0	0.36	2.8	11.6	2.6	1.0	0.7	2.4	0.4	2.5	0.5	1.5	0.2	1.3	0.2
742236 Orig																							
742236 Dup																							
742238 Orig	2.04	0.04	0.79	0.17	0.92	0.81	8.4	11.2	21.7	0.25	3.4	13.9	3.0	4.3	0.7	2.6	0.4	2.5	0.4	1.4	0.2	1.2	0.2
742238 Dup	3.89	0.04	0.72	0.18	0.84	0.80	12.6	10.7	21.2	0.19	3.3	13.2	2.9	3.9	0.7	2.6	0.4	2.4	0.4	1.3	0.2	1.1	0.2
742249 Orig																							
742249 Dup																							
742250 Orig																							
742250 Dup																							
742261 Orig	0.121	0.05	1.29	0.49	0.02	0.07	295	13.9	26.3	0.08	3.1	11.2	2.2	0.3	0.5	2.0	0.3	1.8	0.3	1.1	0.2	1.1	0.2
742261 Dup	0.098	0.06	1.14	0.49	0.03	0.07	298	13.9	26.0	0.08	3.0	11.1	2.1	0.3	0.4	1.9	0.3	1.8	0.3	1.1	0.2	1.1	0.2
742263 Orig																							
742263 Dup																							
742275 Orig	0.265	< 0.02	0.33	0.06	0.43	0.38	15.4	8.0	17.2	0.05	2.3	9.26	2.0	1.5	0.4	1.7	0.2	1.4	0.2	0.8	0.1	0.7	0.1
742275 Dup	0.338	< 0.02	0.46	0.07	0.41	0.42	17.3	8.3	17.7	0.05	2.4	9.74	2.1	1.4	0.5	1.7	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742285 Orig	0.445	0.18	0.40	0.07	0.07	0.43	11.9	4.9	11.6	11.3	1.6	7.03	1.7	1.0	0.5	1.6	0.2	1.4	0.3	0.8	0.1	0.7	0.1
742285 Split PREP DUP	0.430	0.18	0.26	0.08	0.07	0.48	11.3	5.3	12.4	11.3	1.8	7.41	1.9	0.9	0.5	1.8	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742287 Orig	0.357	0.10	0.48	0.07	0.08	0.47	10.4	5.0	12.6	5.41	1.8	8.12	2.1	1.0	0.6	2.0	0.3	1.8	0.3	1.0	0.2	1.0	0.2
742287 Dup	0.336	0.10	0.58	0.08	0.07	0.48	9.8	4.8	12.1	5.46	1.7	7.76	1.9	1.0	0.5	1.9	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742288 Orig																							
742288 Dup																							
742297 Orig																							
742297 Dup																							
742301 Orig	0.905	0.03	0.60	0.12	0.20	0.41	9.6	3.0	8.23	15.0	1.2	5.55	1.6	3.4	0.4	1.8	0.2	1.6	0.3	0.9	0.1	0.8	0.1
742301 Dup	0.892	0.03	0.58	0.12	0.22	0.45	9.5	3.1	8.50	15.1	1.3	5.63	1.7	3.5	0.4	1.8	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742305 Orig																							
742305 Dup																							
742313 Orig																							
742313 Dup																							
742317 Orig	0.465	0.03	0.86	0.17	0.18	0.40	13.3	13.4	25.4	2.61	3.6	14.4	2.8	1.1	0.6	2.4	0.3	2.0	0.4	1.1	0.2	1.0	0.2
742317 Dup	0.501	0.04	0.88	0.18	0.19	0.41	15.6	13.6	25.8	2.51	3.8	15.1	3.0	1.2	0.7	2.5	0.3	2.0	0.4	1.1	0.2	1.1	0.2
742318 Orig																							
742318 Dup																							
742331 Orig	0.627	0.08	0.49	0.10	0.17	0.36	11.7	9.0	18.0	9.89	2.7	11.0	2.4	2.5	0.6	2.0	0.3	1.7	0.3	1.0	0.1	1.0	0.1
742331 Dup	0.559	0.09	0.47	0.08	0.19	0.35	11.1	8.9	17.8	9.87	2.6	10.8	2.4	2.1	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742332 Orig																							

QC

Activation Laboratories Ltd.

Report: A17-09876

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.3	< 0.05	121		2450	0.32	715	2.0	28.4	3660
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas	0.3	< 0.05	128		2650	0.33	691	2.0	31.8	3650
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-4 Meas	0.3	< 0.05	11.7		509	2.93	50.0	17.6	4.8	100
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-4 Meas	0.3	< 0.05	12.6		514	2.99	49.9	18.4	5.5	120
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-6 Meas	0.2	< 0.05	< 0.1		39.6	1.82	107	4.2	0.8	40
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas	0.2	< 0.05	< 0.1		40.8	1.78	104	4.3	0.9	40
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
PK2 Cert										
CDN-PGMS-25 Meas										
CDN-PGMS-25 Cert										
SDC-1 1F2 Assay (%) Meas										
SDC-1 1F2 Assay (%) Cert										
SDC-1 1F2 Assay (%) Meas										
SDC-1 1F2 Assay (%) Cert										
SBC-1 1F2-assay Kamloops (%) Meas										
SBC-1 1F2-assay										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS									
Kamloops (%)										
Cert										
SBC-1 1F2-assay										
Kamloops (%)										
Meas										
SBC-1 1F2-assay										
Kamloops (%)										
Cert										
DNC-1a										
1F2-assay										
Kamloops (%)										
Meas										
DNC-1a										
1F2-assay										
Kamloops (%)										
Cert										
DNC-1a										
1F2-assay										
Kamloops (%)										
Meas										
GXR-6 1F2-assay										
Kamloops (%)										
Cert										
GXR-6 1F2-assay										
Kamloops (%)										
Meas										
GXR-6 1F2-assay										
Kamloops (%)										
Cert										
GXR-4 1F2-assay										
Kamloops (%)										
Meas										
GXR-4 1F2-assay										
Kamloops (%)										
Cert										
GXR-4 1F2-assay										
Kamloops (%)										
Cert										
OREAS 13b (4 Acid) 1F2-assay										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS									
Kamloops (%) Meas										
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert										
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas										
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert										
OREAS 14P 1F2-assay Kamloops (%) Meas										
OREAS 14P 1F2-assay Kamloops (%) Cert										
OREAS 14P 1F2-assay Kamloops (%) Meas										
OREAS 14P 1F2-assay Kamloops (%) Cert										
GBW 07238 1F2-assay Kamloops (%) Meas										
GBW 07238 1F2-assay Kamloops (%) Cert										
GBW 07238 1F2-assay Kamloops (%) Meas										
GBW 07238 1F2-assay Kamloops (%) Cert										
GBW 07239 1F2-assay Kamloops (%) Meas										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GBW 07239										
1F2-assay										
Kamloops (%)										
Cert										
GBW 07239										
1F2-assay										
Kamloops (%)										
Meas										
GBW 07239										
1F2-assay										
Kamloops (%)										
Cert										
SdAR-M2 (U.S.G.S.) Meas	0.2	< 0.05	1.0				886	12.2	1.6	1410
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas	0.1	0.15	1.1				853	12.3	1.8	1400
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8				808	14.2	2.53	1440.00
CCU-1e Meas										
CCU-1e Cert										
CCU-1e Meas										
CCU-1e Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
742194 Orig										
742194 Dup										
742198 Orig	0.3	< 0.05	< 0.1	0.031	22.5	0.34	35.6	2.3	1.1	< 10
742198 Dup	0.3	< 0.05	< 0.1	0.028	24.4	0.36	34.9	2.4	1.1	< 10
742202 Orig										
742202 Dup										
742212 Orig	0.3	< 0.05	< 0.1	0.013	108	0.40	51.2	2.0	0.9	110
742212 Dup	0.4	< 0.05	< 0.1	0.013	110	0.45	52.0	2.2	1.0	100
742215 Orig										
742215 Dup										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742225 Orig	0.3	< 0.05	< 0.1	0.001	45.9	0.38	73.6	2.4	1.0	60
742225 Dup	0.1	< 0.05	< 0.1	< 0.001	38.2	0.37	70.9	2.2	1.0	60
742229 Orig										
742229 Dup										
742235 Orig	0.4	< 0.05	0.4	0.004	25.7	0.24	38.9	3.2	1.4	< 10
742235 Split PREP DUP	0.4	< 0.05	0.4	0.002	16.6	0.21	37.2	3.2	1.4	< 10
742236 Orig										
742236 Dup										
742238 Orig	0.3	< 0.05	0.3	0.008	29.4	0.33	22.4	2.8	1.6	< 10
742238 Dup	0.3	< 0.05	0.3	0.010	26.9	0.33	20.5	2.6	1.5	< 10
742249 Orig										
742249 Dup										
742250 Orig										
742250 Dup										
742261 Orig	0.5	< 0.05	0.3	0.001	2.0	0.02	11.4	6.8	2.2	< 10
742261 Dup	0.4	< 0.05	0.2	< 0.001	1.9	0.02	10.3	6.6	2.2	< 10
742263 Orig										
742263 Dup										
742275 Orig	0.2	< 0.05	< 0.1	0.008	2.8	0.28	4.91	2.8	1.0	< 10
742275 Dup	0.2	< 0.05	< 0.1	0.010	5.8	0.29	5.62	3.0	1.0	< 10
742285 Orig	0.2	< 0.05	< 0.1	0.011	14.6	0.37	135	1.6	0.8	60
742285 Split PREP DUP	0.1	< 0.05	< 0.1	0.009	4.7	0.40	140	1.6	0.8	40
742287 Orig	0.2	< 0.05	< 0.1	0.017	10.3	0.39	110	2.5	0.9	< 10
742287 Dup	0.1	< 0.05	3.2	0.017	9.1	0.39	104	2.3	0.9	20
742288 Orig										
742288 Dup										
742297 Orig										
742297 Dup										
742301 Orig	0.2	< 0.05	< 0.1	0.010	15.4	0.45	137	1.8	0.9	50
742301 Dup	0.2	< 0.05	< 0.1	0.012	11.3	0.45	134	1.7	0.9	50
742305 Orig										
742305 Dup										
742313 Orig										
742313 Dup										
742317 Orig	0.1	< 0.05	< 0.1	0.006	7.9	0.19	48.1	2.8	1.5	10
742317 Dup	0.1	< 0.05	< 0.1	0.008	9.8	0.20	49.8	2.8	1.5	< 10
742318 Orig										
742318 Dup										
742331 Orig	0.2	< 0.05	< 0.1	0.012	32.4	0.40	79.4	2.7	1.9	30
742331 Dup	0.1	< 0.05	< 0.1	0.010	33.4	0.40	79.2	2.6	1.9	20
742332 Orig										

Quality Analysis ...



Innovative Technologies

Date Submitted: 19-Sep-17
Invoice No.: A17-10227
Invoice Date: 13-Nov-17
Your Reference: ECSTASY-CTRZ-1

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

194 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1C-OES-Kamloops Fire Assay ICPOES
 Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)
 Code Sieve Report-Kamloops Internal Sieve Report Internal
 Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-10227

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.

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Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742369	< 2	< 5	< 5	< 3.0	9.1	< 30	1820	< 10	< 20	3.4	3	< 10	< 10	0.005	4.0	20	< 10	2.6	10	1.0	0.266	< 0.001	2.2
742370	64	15	< 5	< 3.0	9.6	50	210	< 10	< 20	2.2	< 3	10	40	0.195	3.9	20	< 10	1.6	< 10	1.7	0.040	0.005	2.4
742371	2	< 5	< 5	< 3.0	9.3	< 30	1710	< 10	< 20	2.4	< 3	10	< 10	0.059	4.0	20	< 10	2.6	20	1.3	0.266	< 0.001	1.9
742372	4	< 5	< 5	< 3.0	10.4	< 30	1170	< 10	< 20	0.3	< 3	< 10	< 10	< 0.001	5.1	20	< 10	4.9	< 10	0.3	0.011	< 0.001	< 0.1
742373	< 2	< 5	< 5	< 3.0	9.0	< 30	1540	< 10	< 20	3.4	5	< 10	< 10	0.021	3.7	20	< 10	2.5	20	1.2	0.204	< 0.001	2.0
742374	< 2	< 5	< 5	< 3.0	10.2	< 30	930	< 10	< 20	1.6	< 3	< 10	30	< 0.001	5.0	20	< 10	3.3	10	0.9	0.061	< 0.001	1.8
742375	< 2	< 5	< 5	< 3.0	9.1	< 30	1200	< 10	< 20	1.0	< 3	10	< 10	0.001	4.8	30	< 10	3.4	10	1.1	0.039	< 0.001	1.0
742376	< 2	< 5	< 5	< 3.0	10.4	< 30	1250	< 10	< 20	0.7	< 3	10	< 10	0.002	5.2	10	< 10	3.7	10	0.8	0.020	< 0.001	0.3
742377	< 2	< 5	< 5	< 3.0	10.6	< 30	1180	< 10	< 20	0.7	< 3	< 10	< 10	< 0.001	5.1	20	< 10	3.6	10	0.9	0.018	< 0.001	0.3
742378	< 2	< 5	< 5	< 3.0	10.7	< 30	1010	< 10	< 20	0.6	< 3	< 10	< 10	0.004	5.4	20	< 10	3.8	< 10	0.2	0.005	< 0.001	0.3
742379	< 2	< 5	< 5	< 3.0	11.1	< 30	1210	< 10	< 20	0.6	< 3	< 10	< 10	0.002	5.5	20	< 10	3.9	< 10	0.5	0.009	< 0.001	0.3
742380D	< 2	< 5	< 5	< 3.0	10.7	< 30	1160	< 10	< 20	0.6	< 3	< 10	< 10	0.002	5.5	20	< 10	3.8	< 10	0.4	0.007	< 0.001	0.3
742381	5	< 5	< 5	< 3.0	10.7	< 30	1100	< 10	< 20	0.8	< 3	< 10	< 10	< 0.001	5.6	20	< 10	2.8	20	1.3	0.032	< 0.001	0.3
742382	< 2	< 5	< 5	< 3.0	10.6	< 30	1050	< 10	< 20	2.7	< 3	< 10	10	0.001	4.8	20	< 10	3.1	< 10	0.3	0.007	< 0.001	0.4
742383	< 2	< 5	< 5	< 3.0	10.3	< 30	1270	< 10	< 20	4.4	< 3	< 10	< 10	< 0.001	4.3	20	< 10	3.1	< 10	0.2	0.008	< 0.001	0.4
742384	< 2	< 5	< 5	< 3.0	11.7	< 30	740	< 10	< 20	3.6	< 3	< 10	10	0.002	3.8	20	< 10	3.0	< 10	0.1	0.005	< 0.001	0.4
742385	< 2	< 5	< 5	< 3.0	11.4	< 30	1160	< 10	< 20	3.7	< 3	< 10	< 10	< 0.001	4.1	10	< 10	3.3	< 10	0.3	0.005	< 0.001	0.5
742386	< 2	< 5	< 5	< 3.0	10.2	< 30	1070	< 10	< 20	4.0	< 3	< 10	< 10	< 0.001	3.9	20	< 10	2.7	10	0.4	0.006	< 0.001	0.4
742387	< 2	< 5	< 5	< 3.0	9.8	< 30	1120	< 10	< 20	4.4	< 3	< 10	< 10	< 0.001	4.2	20	< 10	2.9	< 10	0.2	0.005	< 0.001	0.5
742388	< 2	< 5	< 5	< 3.0	9.9	< 30	1420	< 10	< 20	3.7	< 3	< 10	< 10	< 0.001	4.0	20	< 10	2.6	20	1.1	0.029	< 0.001	0.3
742389	< 2	< 5	< 5	< 3.0	9.7	< 30	1000	< 10	< 20	2.6	7	< 10	< 10	0.001	3.5	20	< 10	1.6	40	2.7	0.094	< 0.001	0.4
742390	63	15	< 5	< 3.0	9.6	30	220	< 10	< 20	2.3	< 3	< 10	30	0.198	4.0	20	< 10	1.7	< 10	1.8	0.041	0.006	2.4
742391	< 2	< 5	< 5	< 3.0	10.2	< 30	1150	< 10	< 20	3.0	< 3	< 10	< 10	< 0.001	3.5	20	< 10	2.3	30	1.5	0.025	< 0.001	0.2
742392	< 2	< 5	< 5	< 3.0	10.3	< 30	1320	< 10	< 20	3.5	< 3	< 10	20	< 0.001	3.4	20	< 10	2.9	20	0.8	0.008	< 0.001	0.2
742393	< 2	< 5	< 5	< 3.0	10.1	30	1370	< 10	< 20	4.3	< 3	< 10	< 10	< 0.001	3.4	20	< 10	3.1	10	0.4	0.007	< 0.001	0.2
742394	< 2	< 5	< 5	< 3.0	10.5	< 30	1530	< 10	< 20	4.5	< 3	< 10	< 10	< 0.001	3.4	20	< 10	3.4	10	0.3	0.006	< 0.001	0.3
742395	< 2	< 5	< 5	< 3.0	9.9	< 30	1320	< 10	< 20	4.5	< 3	< 10	< 10	< 0.001	3.2	20	< 10	3.1	10	0.5	0.006	< 0.001	0.2
742396	< 2	< 5	< 5	< 3.0	9.5	< 30	1100	< 10	< 20	4.4	< 3	< 10	110	0.002	3.2	10	< 10	3.0	10	0.5	0.009	< 0.001	0.2
742397	< 2	< 5	< 5	< 3.0	10.1	< 30	1670	< 10	< 20	5.0	< 3	< 10	10	0.004	3.0	20	< 10	3.4	< 10	0.4	0.007	< 0.001	0.2
742398	< 2	< 5	< 5	< 3.0	10.4	< 30	1420	< 10	< 20	3.2	< 3	< 10	< 10	< 0.001	3.8	20	< 10	2.7	30	1.2	0.010	< 0.001	0.1
742399	< 2	< 5	< 5	< 3.0	10.3	< 30	1340	< 10	< 20	3.2	< 3	< 10	< 10	< 0.001	3.0	20	< 10	2.8	30	1.2	0.010	< 0.001	0.1
742400D	< 2	< 5	< 5	< 3.0	11.0	< 30	1380	< 10	< 20	3.3	< 3	< 10	< 10	< 0.001	3.1	20	< 10	2.9	30	1.2	0.010	< 0.001	0.1
742401	< 2	< 5	< 5	4.2	9.8	< 30	1220	< 10	< 20	4.4	< 3	< 10	< 10	0.005	3.1	20	< 10	2.0	20	0.3	0.006	< 0.001	0.2
742402	< 2	< 5	< 5	< 3.0	10.4	< 30	1110	< 10	< 20	4.8	< 3	< 10	< 10	< 0.001	3.4	10	< 10	1.0	20	< 0.1	0.004	< 0.001	< 0.1
742403	< 2	< 5	< 5	< 3.0	9.5	40	810	< 10	< 20	5.6	< 3	< 10	< 10	< 0.001	2.2	20	< 10	2.3	10	< 0.1	0.003	< 0.001	< 0.1
742404	< 2	< 5	< 5	< 3.0	10.1	< 30	1050	< 10	< 20	5.3	< 3	< 10	< 10	0.001	2.7	20	< 10	3.0	< 10	< 0.1	0.003	< 0.001	0.1
742405	< 2	< 5	< 5	< 3.0	10.6	< 30	1200	< 10	< 20	4.6	< 3	< 10	< 10	< 0.001	2.9	20	< 10	2.9	< 10	< 0.1	0.005	< 0.001	0.1
742406	< 2	< 5	< 5	< 3.0	11.3	< 30	360	< 10	< 20	4.7	< 3	< 10	< 10	< 0.001	2.0	20	< 10	0.4	30	< 0.1	0.002	< 0.001	< 0.1
742407	< 2	< 5	< 5	< 3.0	9.9	< 30	390	< 10	< 20	4.2	< 3	< 10	< 10	< 0.001	4.2	20	< 10	2.3	10	< 0.1	0.003	< 0.001	< 0.1
742408	< 2	< 5	< 5	< 3.0	11.5	< 30	940	< 10	< 20	1.9	< 3	< 10	10	0.002	3.1	10	< 10	3.8	< 10	0.6	0.058	< 0.001	1.3
742409	2	< 5	< 5	< 3.0	9.6	< 30	1240	< 10	< 20	2.0	< 3	10	< 10	0.002	4.5	< 10	< 10	3.2	10	1.0	0.119	< 0.001	2.0
742410	153	< 5	< 5	< 3.0	9.3	50	1220	< 10	< 20	5.4	< 3	30	60	0.119	6.5	20	< 10	2.7	20	2.2	0.103	0.002	2.0

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%								
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
742411	< 2	< 5	< 5	< 3.0	9.2	< 30	1120	< 10	< 20	3.1	< 3	< 10	10	0.013	3.9	20	< 10	3.3	10	1.1	0.168	< 0.001	2.1	
742412	12	< 5	< 5	< 3.0	10.0	< 30	1050	< 10	< 20	3.0	< 3	< 10	10	0.009	4.7	20	< 10	3.0	10	1.3	0.189	< 0.001	2.2	
742413	< 2	< 5	< 5	< 3.0	9.9	< 30	1140	< 10	< 20	3.3	5	< 10	< 10	0.004	4.7	20	< 10	2.7	10	1.3	0.199	< 0.001	2.5	
742414	3	< 5	< 5	< 3.0	9.7	< 30	1200	< 10	< 20	3.4	< 3	< 10	< 10	0.002	4.7	40	< 10	2.9	< 10	1.3	0.196	< 0.001	2.3	
742415	3	< 5	< 5	< 3.0	10.4	< 30	1280	< 10	< 20	3.0	< 3	< 10	< 10	< 0.001	4.1	20	< 10	3.1	10	1.2	0.177	< 0.001	2.0	
742416	< 2	< 5	< 5	< 3.0	10.0	< 30	850	< 10	< 20	2.9	< 3	< 10	< 10	0.002	4.4	20	< 10	2.1	< 10	1.2	0.179	< 0.001	2.0	
742417	17	< 5	< 5	< 3.0	9.3	< 30	5270	< 10	< 20	3.7	< 3	< 10	< 10	0.003	4.7	20	< 10	3.4	20	1.0	0.178	< 0.001	1.5	
742418	10	< 5	< 5	< 3.0	8.5	< 30	1790	< 10	< 20	3.5	< 3	< 10	< 10	0.008	4.2	20	< 10	3.2	10	0.9	0.186	< 0.001	1.9	
742419	3	< 5	< 5	< 3.0	7.9	< 30	3230	< 10	< 20	4.6	< 3	< 10	< 10	0.006	2.6	< 10	< 10	3.2	10	0.5	0.183	< 0.001	1.7	
742420D	3	< 5	< 5	< 3.0	7.7	< 30	3340	< 10	< 20	4.5	< 3	< 10	< 10	0.005	2.5	< 10	< 10	2.9	10	0.4	0.171	< 0.001	1.6	
742421	4	< 5	< 5	< 3.0	8.1	< 30	6460	< 10	< 20	2.8	< 3	< 10	< 10	0.009	3.1	10	< 10	3.6	10	1.0	0.188	< 0.001	1.7	
742422	12	< 5	< 5	< 3.0	8.6	< 30	8270	< 10	< 20	2.8	< 3	< 10	< 10	0.012	3.4	20	< 10	3.5	< 10	1.0	0.193	< 0.001	1.5	
742423	38	< 5	< 5	< 3.0	8.7	50	3210	< 10	< 20	3.3	14	< 10	10	0.013	3.9	20	< 10	3.3	20	1.1	0.242	< 0.001	1.3	
742424	3	< 5	< 5	< 3.0	9.5	< 30	13500	< 10	< 20	4.4	< 3	20	40	0.006	6.0	20	< 10	3.5	30	2.2	0.312	< 0.001	2.4	
742425	4	< 5	< 5	< 3.0	9.4	< 30	1760	< 10	< 20	3.3	< 3	< 10	10	< 0.001	3.9	10	< 10	2.7	20	1.0	0.211	< 0.001	2.2	
742426	5	< 5	< 5	< 3.0	10.2	< 30	1460	< 10	< 20	3.3	< 3	< 10	< 10	< 0.001	4.0	20	< 10	2.9	20	1.1	0.175	< 0.001	2.9	
742427	< 2	< 5	< 5	< 3.0	8.6	< 30	1920	< 10	< 20	2.9	< 3	< 10	10	< 0.001	3.2	10	< 10	2.9	< 10	0.9	0.139	< 0.001	2.3	
742428	< 2	< 5	< 5	< 3.0	9.6	< 30	1540	< 10	< 20	3.2	< 3	< 10	< 10	0.002	3.8	10	< 10	2.7	< 10	0.9	0.170	< 0.001	2.8	
742429	11	< 5	< 5	< 3.0	9.9	< 30	870	< 10	< 20	3.4	< 3	10	20	0.003	4.6	20	< 10	3.0	< 10	1.0	0.257	< 0.001	2.1	
742430	63	14	6	< 3.0	9.8	< 30	220	< 10	< 20	2.3	< 3	10	40	0.202	4.0	20	< 10	1.7	< 10	1.8	0.041	0.006	2.4	
742431	2	< 5	< 5	< 3.0	9.8	< 30	660	< 10	< 20	3.9	< 3	< 10	10	0.012	4.4	20	< 10	2.6	< 10	1.2	0.274	< 0.001	1.9	
742432	< 2	< 5	< 5	< 3.0	9.7	< 30	870	< 10	< 20	4.0	5	< 10	10	0.004	3.8	10	< 10	2.4	< 10	1.0	0.262	< 0.001	2.4	
742433	3	< 5	< 5	< 3.0	10.0	< 30	1050	< 10	< 20	3.7	4	< 10	40	0.003	4.4	10	< 10	2.4	< 10	1.3	0.275	< 0.001	2.4	
742434	< 2	< 5	< 5	< 3.0	9.3	< 30	3130	< 10	< 20	4.7	3	< 10	10	< 0.001	3.9	20	< 10	2.4	< 10	0.9	0.248	< 0.001	2.0	
742435	< 2	< 5	< 5	< 3.0	10.4	< 30	1150	< 10	< 20	4.4	< 3	< 10	20	0.002	4.1	20	< 10	2.9	< 10	1.0	0.225	< 0.001	2.2	
742436	2	< 5	< 5	< 3.0	10.3	< 30	1200	< 10	< 20	4.1	< 3	< 10	20	0.017	4.2	10	< 10	3.0	< 10	1.1	0.208	< 0.001	2.0	
742437	146	< 5	< 5	< 3.0	9.8	< 30	2020	< 10	< 20	3.3	12	< 10	20	0.005	4.4	10	< 10	3.6	< 10	1.1	0.212	< 0.001	1.6	
742438	12	< 5	< 5	< 3.0	9.8	< 30	1650	< 10	< 20	2.8	7	10	20	0.004	4.7	20	< 10	3.5	< 10	1.1	0.219	< 0.001	2.3	
742439	5	< 5	< 5	< 3.0	10.2	< 30	1830	< 10	< 20	3.4	< 3	< 10	20	0.002	4.0	20	< 10	3.7	< 10	1.1	0.239	< 0.001	1.9	
742440D	5	< 5	< 5	< 3.0	9.3	< 30	1950	< 10	< 20	3.4	< 3	< 10	20	0.002	4.0	10	< 10	3.7	< 10	1.1	0.238	< 0.001	1.8	
742441	14	< 5	< 5	< 3.0	10.2	< 30	2040	< 10	< 20	2.6	15	10	20	0.009	4.6	10	< 10	3.8	< 10	1.2	0.218	0.001	2.0	
742442	10	< 5	< 5	< 3.0	9.9	< 30	3100	< 10	< 20	3.2	5	< 10	10	0.010	4.1	20	< 10	3.3	< 10	1.0	0.252	< 0.001	2.3	
742443	3	< 5	< 5	< 3.0	9.6	< 30	1310	< 10	< 20	4.1	< 3	< 10	20	0.001	4.0	10	< 10	3.0	< 10	1.0	0.209	< 0.001	2.2	
742444	< 2	< 5	< 5	< 3.0	9.4	< 30	2560	< 10	< 20	3.1	< 3	< 10	10	0.005	3.7	10	< 10	4.5	< 10	1.1	0.215	< 0.001	2.2	
742445	< 2	< 5	< 5	< 3.0	9.2	30	2150	< 10	< 20	3.3	< 3	< 10	30	0.005	3.7	< 10	< 10	2.4	< 10	1.1	0.206	< 0.001	2.0	
742446	< 2	< 5	< 5	< 3.0	8.7	< 30	1890	< 10	< 20	3.2	< 3	< 10	20	0.003	3.6	20	< 10	4.2	< 10	1.0	0.213	< 0.001	1.8	
742447	< 2	< 5	< 5	< 3.0	8.0	40	320	< 10	< 20	0.5	< 3	< 10	10	< 0.001	1.2	10	< 10	5.6	10	0.1	0.033	< 0.001	2.9	
742448	< 2	< 5	< 5	< 3.0	9.2	< 30	1770	< 10	< 20	3.4	< 3	< 10	20	0.002	3.8	10	< 10	4.1	< 10	1.1	0.221	< 0.001	2.1	
742449	< 2	< 5	< 5	< 3.0	7.3	< 30	1670	< 10	< 20	3.5	< 3	< 10	20	0.006	3.6	10	< 10	3.6	< 10	1.0	0.228	< 0.001	1.9	
742450	124	< 5	< 5	< 3.0	8.8	50	1190	< 10	< 20	5.3	< 3	20	50	0.118	6.4	< 10	< 10	2.7	20	2.2	0.098	0.001	2.0	
742451	< 2	< 5	< 5	< 3.0	9.1	< 30	2070	< 10	< 20	3.3	< 3	10	10	0.003	3.5	20	< 10	2.9	< 10	1.1	0.202	< 0.001	1.9	
742452	< 2	< 5	< 5	< 3.0	9.2	< 30	1920	< 10	< 20	3.2	< 3	< 10	20	0.003	3.6	10	< 10	2.7	< 10	1.1	0.191	< 0.001	2.2	

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	%	%														
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																			
742453	< 2	< 5	< 5	< 3.0	9.0	< 30	1740	< 10	< 20	2.8	< 3	< 10	20	0.003	3.3	10	< 10	2.5	< 10	1.0	0.176	< 0.001	2.3	
742454	< 2	< 5	< 5	< 3.0	8.4	< 30	1650	< 10	< 20	2.7	< 3	< 10	20	0.001	3.0	20	< 10	2.4	< 10	0.8	0.166	< 0.001	2.6	
742455	< 2	< 5	< 5	< 3.0	9.1	< 30	4730	< 10	< 20	2.4	4	< 10	20	0.008	3.3	20	< 10	4.6	< 10	0.9	0.163	< 0.001	2.7	
742456	4	< 5	< 5	< 3.0	9.2	< 30	2160	< 10	< 20	2.8	7	< 10	20	0.009	3.7	20	< 10	4.6	< 10	1.1	0.235	< 0.001	2.0	
742457	< 2	< 5	< 5	< 3.0	8.6	< 30	1730	< 10	< 20	3.0	7	< 10	20	0.010	3.4	10	< 10	4.0	10	1.0	0.200	< 0.001	2.6	
742458	3	< 5	< 5	< 3.0	9.1	< 30	2100	< 10	< 20	2.5	22	< 10	20	0.019	3.5	10	< 10	4.5	< 10	1.1	0.236	< 0.001	2.6	
742459	5	< 5	< 5	5.0	9.0	< 30	2210	< 10	< 20	2.4	20	< 10	10	0.019	3.5	10	< 10	4.9	< 10	1.0	0.194	< 0.001	2.6	
742460D	6	< 5	< 5	< 3.0	9.1	< 30	1990	< 10	< 20	2.4	22	< 10	20	0.020	3.4	10	< 10	2.0	< 10	1.0	0.185	< 0.001	2.5	
742461	4	< 5	< 5	< 3.0	9.3	< 30	2200	< 10	< 20	3.6	7	< 10	10	0.016	3.8	20	< 10	2.9	< 10	1.1	0.240	0.001	2.2	
742462	< 2	< 5	< 5	< 3.0	10.5	< 30	1250	< 10	< 20	3.6	< 3	< 10	10	0.011	3.8	10	< 10	2.3	< 10	1.1	0.198	< 0.001	2.5	
742463	< 2	< 5	< 5	< 3.0	9.7	< 30	1180	< 10	< 20	4.0	5	10	10	0.002	4.1	20	< 10	2.0	< 10	0.9	0.201	< 0.001	2.5	
742464	5	< 5	< 5	4.7	9.2	< 30	1960	< 10	< 20	2.5	39	< 10	10	0.053	3.3	10	< 10	2.7	10	1.0	0.225	< 0.001	2.6	
742465	< 2	< 5	< 5	< 3.0	9.4	< 30	1800	< 10	< 20	2.9	< 3	10	< 10	0.004	3.5	20	< 10	3.7	< 10	1.0	0.194	< 0.001	2.7	
742466	5	< 5	< 5	< 3.0	8.8	< 30	1710	< 10	< 20	2.7	< 3	< 10	20	0.005	3.5	10	< 10	4.3	< 10	1.0	0.202	< 0.001	2.5	
742467	< 2	< 5	< 5	< 3.0	9.3	< 30	1710	< 10	< 20	3.3	< 3	< 10	30	0.004	3.7	10	< 10	3.8	10	1.1	0.220	< 0.001	2.6	
742468	< 2	< 5	< 5	< 3.0	8.7	< 30	2140	< 10	< 20	2.9	< 3	< 10	20	0.010	3.7	< 10	< 10	4.2	< 10	1.1	0.234	< 0.001	2.2	
742469	< 2	< 5	< 5	< 3.0	8.9	< 30	1880	< 10	< 20	3.5	< 3	< 10	10	0.005	3.8	20	< 10	4.1	< 10	1.0	0.247	< 0.001	1.8	
742470	65	13	< 5	< 3.0	8.6	40	200	< 10	< 20	2.1	< 3	10	40	0.187	3.7	20	< 10	1.6	< 10	1.6	0.040	0.006	2.3	
742471	< 2	< 5	< 5	< 3.0	8.9	< 30	1810	< 10	< 20	2.7	< 3	< 10	< 10	0.003	3.6	20	< 10	3.9	< 10	1.0	0.175	< 0.001	2.6	
742472	< 2	< 5	< 5	< 3.0	9.1	< 30	1800	< 10	< 20	2.8	< 3	10	< 10	0.003	3.5	10	< 10	3.9	< 10	1.0	0.176	< 0.001	2.6	
742473	4	< 5	< 5	< 3.0	5.7	< 30	1750	< 10	< 20	3.2	< 3	10	20	0.003	3.2	< 10	< 10	2.4	< 10	0.9	0.200	< 0.001	2.4	
742474	2	< 5	< 5	< 3.0	9.1	< 30	1970	< 10	< 20	2.6	< 3	< 10	10	0.004	3.5	< 10	< 10	4.6	< 10	1.1	0.169	< 0.001	2.5	
742475	2	< 5	< 5	< 3.0	8.9	< 30	1980	< 10	< 20	2.5	< 3	< 10	20	0.003	3.5	10	< 10	4.6	< 10	1.0	0.176	< 0.001	2.5	
742476	< 2	< 5	< 5	< 3.0	8.8	< 30	1810	< 10	< 20	2.8	< 3	10	20	0.003	3.6	10	< 10	4.3	< 10	1.0	0.181	< 0.001	2.7	
742477	< 2	< 5	< 5	3.7	8.4	< 30	2270	< 10	< 20	3.1	< 3	< 10	20	0.004	3.4	20	< 10	4.5	< 10	1.0	0.215	< 0.001	1.8	
742478	4	< 5	< 5	< 3.0	8.4	< 30	2410	< 10	< 20	3.1	< 3	< 10	20	0.005	3.5	10	< 10	4.4	< 10	1.0	0.212	< 0.001	1.7	
742479	< 2	< 5	< 5	< 3.0	8.0	< 30	8880	< 10	< 20	3.4	< 3	< 10	20	0.005	3.2	10	< 10	4.0	< 10	0.9	0.192	< 0.001	1.8	
742480D	10	< 5	< 5	< 3.0	8.6	< 30	8930	< 10	< 20	3.6	< 3	< 10	10	0.005	3.3	10	< 10	3.2	< 10	1.0	0.194	< 0.001	1.9	
742481	13	< 5	< 5	< 3.0	9.0	< 30	4410	< 10	< 20	3.2	< 3	< 10	10	0.007	3.6	20	< 10	3.8	< 10	1.1	0.200	< 0.001	2.0	
742482	< 2	< 5	< 5	< 3.0	9.0	< 30	3490	< 10	< 20	2.6	< 3	< 10	20	0.008	3.3	10	< 10	4.4	< 10	0.9	0.151	< 0.001	2.6	
742483	4	< 5	< 5	< 3.0	6.6	< 30	2540	< 10	< 20	2.7	< 3	10	< 10	0.003	3.3	10	< 10	1.5	< 10	0.9	0.163	< 0.001	2.5	
742484	4	< 5	< 5	< 3.0	8.5	< 30	2670	< 10	< 20	2.8	< 3	< 10	10	0.004	3.2	10	< 10	4.3	< 10	0.9	0.181	< 0.001	2.0	
742485	2	< 5	< 5	< 3.0	8.3	< 30	3190	< 10	< 20	3.1	< 3	< 10	10	0.005	3.4	10	< 10	4.2	< 10	0.9	0.210	< 0.001	1.8	
742486	< 2	< 5	< 5	< 3.0	9.0	< 30	1890	< 10	< 20	3.0	< 3	10	20	0.004	3.6	10	< 10	4.2	< 10	1.0	0.194	< 0.001	2.3	
742487	< 2	< 5	< 5	< 3.0	7.3	< 30	1640	< 10	< 20	2.7	< 3	< 10	10	0.002	3.2	< 10	< 10	3.8	< 10	0.9	0.159	< 0.001	2.4	
742488	3	< 5	< 5	< 3.0	8.8	< 30	1630	< 10	< 20	2.4	< 3	< 10	20	0.004	3.3	10	< 10	4.0	< 10	0.9	0.141	< 0.001	2.9	
742489	< 2	< 5	< 5	< 3.0	8.3	< 30	1810	< 10	< 20	2.7	< 3	< 10	< 10	0.004	3.2	10	< 10	3.3	< 10	0.9	0.145	< 0.001	2.6	
742490	3	< 5	< 5	< 3.0	6.0	< 30	530	< 10	< 20	1.7	< 3	< 10	60	0.003	2.7	< 10	< 10	1.2	10	0.8	0.053	< 0.001	2.2	
742491	< 2	< 5	< 5	< 3.0	8.2	< 30	1840	< 10	< 20	3.0	< 3	< 10	< 10	0.002	3.1	10	< 10	2.6	< 10	0.9	0.154	< 0.001	2.4	
742492	< 2	< 5	< 5	< 3.0	9.1	< 30	1540	< 10	< 20	3.5	< 3	< 10	90	0.002	3.5	10	< 10	2.3	10	1.0	0.188	< 0.001	2.6	
742493	5	< 5	< 5	< 3.0	8.9	< 30	1500	< 10	< 20	2.8	< 3	10	10	0.004	3.5	< 10	< 10	3.7	< 10	0.9	0.205	< 0.001	2.7	
742494	2	< 5	< 5	< 3.0	8.9	< 30	2410	< 10	< 20	2.9	7	< 10	20	0.002	3.5	20	< 10	4.1	< 10	0.9	0.180	< 0.001	2.7	

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
742495	< 2	< 5	< 5	< 3.0	8.9	< 30	1390	< 10	< 20	2.7	3	< 10	20	0.003	3.3	10	< 10	3.8	10	0.7	0.184	< 0.001	2.6
742496	< 2	< 5	< 5	< 3.0	7.4	< 30	< 70	< 10	< 20	1.2	< 3	< 10	< 10	< 0.001	1.1	20	< 10	4.9	20	0.2	0.048	0.002	2.6
742497	< 2	< 5	< 5	< 3.0	8.1	< 30	< 70	< 10	< 20	0.8	< 3	< 10	< 10	< 0.001	1.2	20	< 10	4.9	20	0.1	0.035	0.001	2.7
742498	< 2	< 5	< 5	< 3.0	8.5	< 30	< 70	< 10	< 20	0.6	< 3	< 10	20	< 0.001	1.2	20	< 10	5.2	20	0.1	0.034	< 0.001	2.6
742499	< 2	< 5	< 5	< 3.0	8.2	< 30	< 70	< 10	< 20	1.4	< 3	< 10	< 10	< 0.001	1.4	20	< 10	5.0	20	0.3	0.070	< 0.001	2.5
742500D	< 2	< 5	< 5	< 3.0	8.3	< 30	< 70	< 10	< 20	1.4	< 3	< 10	< 10	< 0.001	1.4	20	< 10	4.6	20	0.3	0.070	< 0.001	2.5
718901	2	< 5	< 5	< 3.0	8.8	< 30	2550	< 10	< 20	2.5	13	< 10	10	0.016	3.3	< 10	< 10	4.6	< 10	1.0	0.218	< 0.001	1.8
718902	4	< 5	< 5	< 3.0	8.9	< 30	2440	< 10	< 20	2.9	11	10	20	0.013	4.1	20	< 10	4.5	< 10	0.9	0.209	< 0.001	1.3
718903	< 2	< 5	< 5	< 3.0	8.4	< 30	2190	< 10	< 20	2.9	3	< 10	10	0.008	3.5	10	< 10	5.3	< 10	1.0	0.230	< 0.001	1.7
718904	6	< 5	< 5	< 3.0	9.4	< 30	1620	< 10	< 20	3.3	< 3	< 10	20	0.002	5.0	20	< 10	3.9	< 10	0.6	0.198	< 0.001	1.3
718905	5	< 5	< 5	< 3.0	9.1	< 30	1900	< 10	< 20	3.5	< 3	< 10	10	0.001	4.5	20	< 10	3.3	< 10	0.6	0.218	< 0.001	1.7
718906	6	< 5	< 5	< 3.0	9.4	< 30	2110	< 10	< 20	3.6	24	< 10	20	0.004	4.7	20	< 10	3.6	< 10	0.7	0.256	< 0.001	2.1
718907	6	< 5	< 5	< 3.0	9.7	< 30	1870	< 10	< 20	3.1	< 3	< 10	10	< 0.001	5.0	10	< 10	3.7	< 10	0.7	0.206	< 0.001	1.9
718908	10	< 5	< 5	< 3.0	9.5	< 30	1530	< 10	< 20	2.8	6	< 10	20	0.002	5.3	20	< 10	3.0	< 10	0.7	0.209	< 0.001	1.9
718909	11	< 5	< 5	< 3.0	9.8	40	1610	< 10	< 20	2.7	< 3	< 10	10	0.001	5.4	10	< 10	2.7	< 10	0.7	0.189	< 0.001	1.7
718910	59	14	< 5	< 3.0	9.0	< 30	200	< 10	< 20	2.1	< 3	< 10	30	0.187	3.7	20	< 10	1.6	< 10	1.6	0.035	0.005	2.3
718911	17	< 5	< 5	< 3.0	8.2	30	2060	< 10	< 20	1.6	52	< 10	30	0.009	4.9	10	< 10	3.7	< 10	1.0	0.253	< 0.001	1.4
718912	26	< 5	< 5	< 3.0	8.1	< 30	2250	< 10	< 20	2.6	104	10	20	0.011	4.1	20	< 10	3.4	< 10	1.0	0.381	< 0.001	2.3
718913	< 2	< 5	< 5	< 3.0	8.6	< 30	820	< 10	< 20	5.1	< 3	< 10	30	0.008	7.2	10	< 10	1.8	40	4.1	0.348	0.001	3.1
718914	19	< 5	< 5	< 3.0	7.8	< 30	1500	< 10	< 20	1.5	86	< 10	10	0.009	4.0	10	< 10	2.7	< 10	0.9	0.278	< 0.001	1.7
718915	16	< 5	< 5	< 3.0	8.9	< 30	1160	< 10	< 20	1.6	85	< 10	30	0.012	3.6	< 10	< 10	2.3	< 10	0.8	0.249	< 0.001	1.7
718916	< 2	< 5	< 5	< 3.0	9.5	< 30	1090	< 10	< 20	2.5	< 3	< 10	10	< 0.001	2.6	20	< 10	3.0	30	0.5	0.076	< 0.001	2.8
718917	40	< 5	< 5	< 3.0	8.6	< 30	1140	< 10	< 20	2.2	63	< 10	30	0.010	4.0	10	< 10	2.2	< 10	0.8	0.223	< 0.001	1.7
718918	18	< 5	< 5	< 3.0	9.5	< 30	1170	< 10	< 20	2.7	25	< 10	20	0.005	4.2	< 10	< 10	2.2	< 10	0.9	0.223	< 0.001	2.1
718919	7	< 5	< 5	< 3.0	8.4	< 30	1050	< 10	< 20	2.4	14	10	20	0.003	4.0	10	< 10	3.2	< 10	0.8	0.190	< 0.001	2.0
718920D	12	< 5	< 5	< 3.0	8.8	< 30	1110	< 10	< 20	2.5	15	10	20	0.003	4.1	10	< 10	3.2	< 10	0.8	0.201	< 0.001	2.1
718921	17	< 5	< 5	< 3.0	8.7	30	1050	< 10	< 20	1.7	18	40	20	0.004	6.7	< 10	< 10	3.4	< 10	0.9	0.198	0.002	1.6
718922	20	< 5	< 5	< 3.0	8.4	< 30	1030	< 10	< 20	1.5	84	< 10	20	0.008	3.6	20	< 10	3.1	< 10	0.9	0.325	< 0.001	2.0
718923	23	< 5	< 5	< 3.0	8.3	< 30	2870	< 10	< 20	2.2	94	< 10	20	0.008	4.0	20	< 10	2.8	< 10	1.0	0.353	< 0.001	1.5
718924	11	< 5	< 5	< 3.0	8.9	< 30	2540	< 10	< 20	2.3	42	< 10	30	0.005	3.8	< 10	< 10	2.8	< 10	1.0	0.313	< 0.001	2.4
718925	3	< 5	< 5	< 3.0	9.3	< 30	1250	< 10	< 20	2.7	25	< 10	20	0.005	3.6	10	< 10	2.5	< 10	1.0	0.247	< 0.001	2.6
718926	< 2	< 5	< 5	< 3.0	9.1	< 30	1220	< 10	< 20	2.6	13	< 10	20	0.005	3.5	20	< 10	2.5	< 10	0.9	0.234	< 0.001	2.2
718927	16	< 5	< 5	< 3.0	8.7	< 30	1810	< 10	< 20	2.3	44	< 10	30	0.005	3.8	20	< 10	2.1	< 10	0.9	0.245	< 0.001	1.9
718928	5	< 5	< 5	< 3.0	8.7	< 30	4060	< 10	< 20	2.9	17	< 10	30	0.003	3.4	10	< 10	2.4	< 10	0.9	0.211	0.001	2.3
718929	5	< 5	< 5	< 3.0	7.8	< 30	2060	< 10	< 20	1.9	23	< 10	20	0.005	3.3	20	< 10	3.4	< 10	0.8	0.141	0.002	1.5
718930	361	32	< 5	< 3.0	8.1	< 30	500	< 10	< 20	0.4	< 3	< 10	20	0.513	3.6	10	< 10	6.0	10	0.4	0.008	0.027	0.4
718931	5	< 5	< 5	< 3.0	8.1	< 30	2350	< 10	< 20	2.7	34	10	30	0.004	3.7	20	< 10	3.3	< 10	0.9	0.236	< 0.001	1.6
718932	7	< 5	< 5	< 3.0	8.2	< 30	1910	< 10	< 20	2.4	17	< 10	30	0.006	3.6	10	< 10	3.2	< 10	0.8	0.240	< 0.001	1.7
718933	8	< 5	< 5	< 3.0	8.0	< 30	1200	< 10	< 20	1.8	66	< 10	30	0.010	3.8	20	< 10	3.3	< 10	1.0	0.268	0.001	1.6
718934	12	< 5	< 5	< 3.0	8.6	< 30	2040	< 10	< 20	1.9	60	< 10	30	0.008	3.9	< 10	< 10	2.6	< 10	1.0	0.349	< 0.001	1.7
718935	3	< 5	< 5	< 3.0	8.4	< 30	3200	< 10	< 20	2.2	41	< 10	10	0.008	3.5	< 10	< 10	3.0	< 10	0.8	0.275	< 0.001	1.8
718936	4	< 5	< 5	< 3.0	8.1	< 30	4280	< 10	< 20	2.2	70	< 10	20	0.014	3.8	< 10	< 10	4.1	< 10	0.9	0.263	< 0.001	1.5

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%							
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																		
718937	13	< 5	< 5	< 3.0	8.9	< 30	1790	< 10	< 20	1.8	51	< 10	30	0.021	4.2	10	< 10	3.9	< 10	0.9	0.245	< 0.001	2.0
718938	13	< 5	< 5	< 3.0	8.0	< 30	1860	< 10	< 20	2.3	6	< 10	10	0.005	3.5	20	< 10	1.7	< 10	0.8	0.165	< 0.001	2.3
718939	2	< 5	< 5	< 3.0	8.2	< 30	4220	< 10	< 20	2.4	12	< 10	20	0.008	3.3	20	< 10	3.1	< 10	0.8	0.207	< 0.001	2.3
718940D	3	< 5	< 5	< 3.0	8.2	< 30	4410	< 10	< 20	2.4	10	< 10	20	0.007	3.3	10	< 10	3.2	< 10	0.8	0.207	< 0.001	2.3
718941	4	< 5	< 5	< 3.0	9.0	< 30	1680	< 10	< 20	2.8	24	< 10	20	0.007	3.8	20	< 10	3.1	< 10	0.9	0.298	< 0.001	2.4
718942	3	< 5	< 5	< 3.0	8.8	< 30	1370	< 10	< 20	2.3	32	< 10	30	0.009	3.9	10	< 10	3.0	< 10	0.9	0.253	< 0.001	2.4
718943	6	< 5	< 5	< 3.0	8.5	< 30	1280	< 10	< 20	2.5	36	10	20	0.019	3.9	10	< 10	2.9	< 10	0.9	0.209	< 0.001	2.5
718944	160	< 5	< 5	< 3.0	6.6	< 30	910	< 10	< 20	1.5	152	20	10	0.012	4.8	< 10	< 10	1.6	10	1.2	0.324	0.001	1.3
718945	173	< 5	< 5	< 3.0	6.9	< 30	1340	< 10	< 20	1.5	132	10	20	0.012	4.6	< 10	< 10	2.1	< 10	1.1	0.302	< 0.001	0.9
718946	< 2	< 5	< 5	< 3.0	8.2	< 30	1580	< 10	< 20	3.3	< 3	< 10	< 10	0.025	4.6	10	< 10	3.1	10	1.3	0.196	< 0.001	1.6
718947	8	< 5	< 5	< 3.0	8.3	< 30	1470	< 10	< 20	3.8	< 3	< 10	20	0.011	4.6	10	< 10	2.2	< 10	1.4	0.193	< 0.001	1.2
718948	6	< 5	< 5	< 3.0	8.5	< 30	1330	< 10	< 20	3.2	< 3	< 10	10	0.049	4.8	10	< 10	1.9	< 10	1.3	0.202	< 0.001	1.8
718949	3	< 5	< 5	< 3.0	7.7	< 30	1030	< 10	< 20	2.5	< 3	10	20	0.009	3.5	< 10	< 10	2.9	< 10	0.8	0.148	< 0.001	2.5
718950	60	14	< 5	< 3.0	9.0	< 30	190	< 10	< 20	2.0	< 3	10	30	0.183	3.6	20	< 10	1.5	< 10	1.6	0.035	0.005	2.2
741401	4	< 5	< 5	< 3.0	8.3	< 30	850	< 10	< 20	2.3	< 3	10	10	0.010	3.2	20	< 10	2.9	< 10	0.8	0.119	< 0.001	2.4
741402	< 2	< 5	< 5	< 3.0	7.7	< 30	1380	< 10	< 20	2.9	< 3	< 10	< 10	0.004	2.6	10	< 10	2.5	< 10	0.5	0.108	< 0.001	2.1
741403	3	< 5	< 5	< 3.0	7.9	< 30	1090	< 10	< 20	2.0	< 3	< 10	20	0.004	2.8	20	< 10	2.6	< 10	0.6	0.095	< 0.001	2.2
741404	< 2	< 5	< 5	< 3.0	8.6	< 30	1130	< 10	< 20	2.3	< 3	< 10	10	0.003	3.1	< 10	< 10	3.0	< 10	0.7	0.110	< 0.001	2.6
741405	7	7	< 5	< 3.0	8.7	< 30	1120	< 10	< 20	2.0	4	< 10	20	0.005	3.0	20	< 10	2.1	< 10	0.8	0.119	< 0.001	2.6
741406	< 2	< 5	< 5	< 3.0	8.2	< 30	1080	< 10	< 20	2.2	4	< 10	20	0.001	2.8	20	< 10	2.1	< 10	0.8	0.139	< 0.001	2.5
741407	< 2	< 5	< 5	< 3.0	8.3	< 30	1230	< 10	< 20	2.0	17	10	20	0.002	3.2	10	< 10	2.2	< 10	0.9	0.182	< 0.001	2.4
741408	4	< 5	< 5	< 3.0	8.6	< 30	1380	< 10	< 20	1.9	43	< 10	30	0.007	3.3	10	< 10	2.7	< 10	0.9	0.202	< 0.001	2.2
741409	2	< 5	< 5	< 3.0	8.3	< 30	1360	< 10	< 20	2.4	17	< 10	10	0.003	3.1	20	< 10	3.1	< 10	0.9	0.187	< 0.001	2.1
741410D	< 2	< 5	< 5	< 3.0	7.8	< 30	1340	< 10	< 20	2.2	18	< 10	20	0.003	2.9	< 10	< 10	2.8	< 10	0.8	0.179	< 0.001	1.9
741411	3	< 5	< 5	< 3.0	8.5	< 30	1400	< 10	< 20	2.4	7	< 10	10	0.008	3.2	< 10	< 10	3.5	< 10	0.8	0.121	< 0.001	2.0
741412	3	< 5	< 5	< 3.0	8.1	< 30	1850	< 10	< 20	2.5	< 3	< 10	30	0.002	2.8	10	< 10	3.2	< 10	0.8	0.117	< 0.001	1.9

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742369	< 0.001	0.08	< 30	0.1	< 50	< 40	230	< 20	0.3	< 50	< 100	110	< 50	20	0.055	70	0.005	< 1	0.073	8.7	0.4	8	0.043
742370	0.001	0.06	60	0.8	< 50	< 40	170	< 20	0.4	< 50	< 100	230	< 50	20	0.025	60	0.084	< 1	0.055	5.9	0.2	6	0.194
742371	< 0.001	0.08	< 30	0.5	< 50	< 40	240	< 20	0.3	< 50	< 100	110	< 50	20	0.032	80	0.002	< 1	0.073	10.5	0.5	8	0.041
742372	< 0.001	0.08	< 30	5.1	< 50	< 40	100	< 20	0.4	< 50	< 100	140	< 50	30	0.009	120	0.001	5	0.073	1.0	0.4	8	0.023
742373	< 0.001	0.08	< 30	0.3	< 50	< 40	270	< 20	0.3	< 50	< 100	90	< 50	20	0.052	70	0.003	< 1	0.073	10.3	0.5	7	0.038
742374	< 0.001	0.11	< 30	5.3	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	20	0.004	110	0.002	5	0.100	7.2	0.6	8	0.057
742375	< 0.001	0.11	< 30	5.2	< 50	< 40	120	< 20	0.4	< 50	< 100	130	< 50	20	0.003	110	0.001	5	0.100	10.0	0.3	6	0.042
742376	< 0.001	0.13	< 30	5.7	< 50	< 40	130	< 20	0.4	< 50	< 100	140	< 50	20	0.005	120	0.001	5	0.109	8.3	0.4	5	0.039
742377	< 0.001	0.13	< 30	5.6	< 50	< 40	150	< 20	0.4	< 50	< 100	140	< 50	30	0.003	120	0.001	6	0.118	11.4	0.6	5	0.041
742378	< 0.001	0.13	< 30	6.3	< 50	< 40	160	< 20	0.4	< 50	< 100	150	< 50	30	< 0.001	120	< 0.001	6	0.109	0.6	0.4	5	0.044
742379	< 0.001	0.13	< 30	6.2	< 50	< 40	160	< 20	0.5	< 50	< 100	160	< 50	30	0.002	130	0.001	5	0.100	4.8	0.6	6	0.046
742380D	< 0.001	0.13	< 30	6.1	< 50	< 40	160	< 20	0.4	< 50	< 100	160	< 50	30	0.002	130	< 0.001	6	0.109	5.0	0.5	5	0.044
742381	< 0.001	0.14	< 30	6.2	< 50	< 40	220	< 20	0.4	< 50	< 100	150	< 50	30	0.003	120	0.001	6	0.118	13.1	0.6	7	0.051
742382	< 0.001	0.11	< 30	7.2	< 50	< 40	250	< 20	0.4	< 50	< 100	130	< 50	20	< 0.001	110	< 0.001	6	0.091	2.1	0.3	5	0.044
742383	< 0.001	0.13	< 30	8.0	< 50	< 40	570	< 20	0.4	< 50	< 100	140	< 50	30	< 0.001	120	< 0.001	7	0.118	1.4	0.5	5	0.066
742384	< 0.001	0.13	< 30	6.5	< 50	< 40	400	< 20	0.4	< 50	< 100	150	< 50	40	0.001	120	0.001	6	0.109	0.8	0.3	4	0.051
742385	< 0.001	0.14	< 30	7.2	< 50	< 40	520	< 20	0.4	< 50	< 100	150	< 50	30	< 0.001	110	< 0.001	6	0.118	3.0	0.4	4	0.061
742386	< 0.001	0.12	< 30	7.1	< 50	< 40	500	< 20	0.4	< 50	< 100	120	< 50	20	0.001	110	< 0.001	6	0.100	5.8	0.4	4	0.060
742387	< 0.001	0.12	< 30	7.5	< 50	< 40	530	< 20	0.4	< 50	< 100	130	< 50	30	< 0.001	120	< 0.001	7	0.100	1.0	0.3	4	0.063
742388	< 0.001	0.11	< 30	6.8	< 50	< 40	550	< 20	0.4	< 50	< 100	120	< 50	30	0.002	120	0.001	5	0.082	11.1	0.5	6	0.043
742389	< 0.001	0.15	210	4.9	< 50	< 40	350	< 20	0.4	< 50	< 100	120	< 50	30	0.012	120	0.001	5	0.127	35.9	0.4	5	0.046
742390	0.001	0.07	40	0.8	< 50	< 40	170	< 20	0.4	< 50	< 100	240	< 50	20	0.027	60	0.079	< 1	0.045	5.8	0.3	5	0.174
742391	< 0.001	0.12	< 30	5.8	< 50	< 40	400	< 20	0.4	< 50	< 100	130	< 50	30	0.004	120	0.001	5	0.100	19.4	0.6	5	0.035
742392	< 0.001	0.11	< 30	5.9	< 50	< 40	400	< 20	0.4	< 50	< 100	120	< 50	30	0.003	120	0.001	6	0.091	12.4	0.6	4	0.034
742393	< 0.001	0.12	< 30	6.9	< 50	< 40	470	< 20	0.4	< 50	< 100	120	< 50	30	0.002	120	< 0.001	6	0.091	7.5	0.5	5	0.043
742394	< 0.001	0.12	< 30	6.9	< 50	< 40	460	< 20	0.4	< 50	< 100	120	< 50	30	0.001	120	< 0.001	6	0.100	5.8	0.6	4	0.046
742395	< 0.001	0.12	< 30	6.9	< 50	< 40	430	< 20	0.4	< 50	< 100	120	< 50	30	0.002	110	< 0.001	6	0.091	7.8	0.7	5	0.043
742396	< 0.001	0.11	< 30	6.6	< 50	< 40	460	< 20	0.4	< 50	< 100	120	< 50	20	0.002	110	0.001	6	0.100	8.2	0.7	6	0.042
742397	< 0.001	0.12	< 30	6.9	< 50	< 40	500	< 20	0.4	< 50	< 100	130	< 50	30	0.004	120	< 0.001	6	0.091	5.2	0.9	6	0.046
742398	< 0.001	0.12	< 30	6.4	< 50	< 40	360	< 20	0.4	< 50	< 100	130	< 50	30	0.005	120	0.001	5	0.091	18.8	1.1	5	0.030
742399	< 0.001	0.12	< 30	5.4	< 50	< 40	350	< 20	0.4	< 50	< 100	130	< 50	30	0.006	130	0.001	5	0.100	21.8	1.3	4	0.032
742400D	< 0.001	0.13	< 30	5.7	< 50	< 40	360	< 20	0.4	< 50	< 100	130	< 50	30	0.006	130	0.001	5	0.100	21.1	1.1	5	0.033
742401	< 0.001	0.12	< 30	6.8	< 50	< 40	820	< 20	0.4	< 50	< 100	130	< 50	30	0.003	110	< 0.001	6	0.073	8.1	0.6	4	0.026
742402	< 0.001	0.10	< 30	7.6	< 50	< 40	1130	< 20	0.4	< 50	< 100	120	< 50	20	< 0.001	110	< 0.001	7	0.027	4.3	0.3	3	0.019
742403	< 0.001	0.10	< 30	7.0	< 50	< 40	430	< 20	0.4	< 50	< 100	110	< 50	30	< 0.001	110	< 0.001	6	0.082	3.3	0.4	4	0.026
742404	< 0.001	0.12	< 30	7.0	< 50	< 40	450	< 20	0.4	< 50	< 100	130	< 50	30	< 0.001	120	< 0.001	6	0.091	2.0	0.5	4	0.026
742405	< 0.001	0.13	< 30	6.7	< 50	< 40	470	< 20	0.4	< 50	< 100	130	< 50	30	< 0.001	120	< 0.001	6	0.100	1.5	0.5	4	0.024
742406	< 0.001	0.13	< 30	6.0	< 50	< 40	1370	< 20	0.4	< 50	< 100	140	< 50	30	< 0.001	120	< 0.001	5	0.036	4.5	0.2	3	0.015
742407	< 0.001	0.14	< 30	8.0	< 50	< 40	1060	< 20	0.4	< 50	< 100	130	< 50	40	< 0.001	120	0.001	7	0.045	1.9	0.1	3	0.014
742408	< 0.001	0.13	< 30	3.0	< 50	< 40	800	< 20	0.4	< 50	< 100	150	< 50	20	0.007	110	0.001	3	0.091	5.4	0.5	5	0.032
742409	0.001	0.11	< 30	2.8	< 50	< 40	430	< 20	0.4	< 50	< 100	160	< 50	20	0.013	100	0.004	3	0.100	8.9	0.7	5	0.042
742410	0.003	0.14	< 30	1.5	< 50	< 40	390	< 20	0.5	< 50	< 100	250	< 50	20	0.011	80	0.044	1	0.118	14.0	0.4	9	0.113

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742411	< 0.001	0.08	40	0.3	< 50	< 40	240	< 20	0.3	< 50	< 100	100	< 50	20	0.027	70	0.004	< 1	0.073	8.0	0.5	5	0.038
742412	< 0.001	0.11	< 30	2.3	< 50	< 40	280	< 20	0.4	< 50	< 100	120	< 50	20	0.019	110	0.004	2	0.091	7.6	0.5	6	0.048
742413	< 0.001	0.11	< 30	2.4	< 50	< 40	410	< 20	0.4	< 50	< 100	130	< 50	30	0.042	110	0.006	2	0.091	7.4	0.5	4	0.052
742414	< 0.001	0.11	< 30	2.0	< 50	< 40	450	< 20	0.4	< 50	< 100	130	< 50	30	0.019	110	0.003	2	0.100	7.8	0.5	5	0.047
742415	< 0.001	0.12	< 30	1.1	< 50	< 40	480	< 20	0.4	< 50	< 100	130	< 50	30	0.014	120	0.002	1	0.109	7.2	0.6	4	0.036
742416	< 0.001	0.12	< 30	1.8	< 50	< 40	330	< 20	0.4	< 50	< 100	130	< 50	30	0.012	120	0.002	2	0.109	7.0	0.5	4	0.038
742417	< 0.001	0.12	70	2.1	< 50	< 40	660	< 20	0.4	< 50	< 100	130	< 50	20	0.032	110	0.001	2	0.100	13.9	0.8	5	0.038
742418	< 0.001	0.09	< 30	2.1	< 50	< 40	250	< 20	0.3	< 50	< 100	110	< 50	20	0.017	80	0.001	2	0.082	10.9	0.4	5	0.042
742419	< 0.001	0.05	< 30	0.2	< 50	< 40	250	< 20	0.2	< 50	< 100	70	< 50	10	0.031	60	0.001	< 1	0.045	6.9	0.3	4	0.038
742420D	< 0.001	0.06	< 30	0.1	< 50	< 40	250	< 20	0.2	< 50	< 100	80	< 50	10	0.030	60	0.001	< 1	0.045	6.5	0.3	3	0.034
742421	< 0.001	0.06	< 30	0.3	< 50	< 40	470	< 20	0.2	< 50	< 100	90	< 50	10	0.025	60	0.003	< 1	0.055	7.7	0.3	3	0.043
742422	< 0.001	0.06	< 30	0.4	< 50	< 40	510	< 20	0.3	< 50	< 100	100	< 50	10	0.026	70	0.004	< 1	0.055	7.6	0.5	3	0.034
742423	< 0.001	0.07	250	0.4	< 50	< 40	250	60	0.3	< 50	< 100	110	< 50	20	0.086	80	0.004	< 1	0.064	13.4	0.6	3	0.033
742424	0.003	0.13	< 30	0.3	< 50	< 40	800	< 20	0.5	< 50	< 100	190	< 50	20	0.048	100	0.026	< 1	0.127	28.4	0.7	2	0.051
742425	< 0.001	0.09	< 30	< 0.1	< 50	< 40	440	60	0.3	< 50	< 100	80	< 50	20	0.047	< 50	0.023	< 1	0.091	17.1	0.9	4	0.060
742426	< 0.001	0.10	< 30	< 0.1	< 50	< 40	540	< 20	0.3	< 50	< 100	130	< 50	20	0.058	< 50	0.039	< 1	0.091	13.8	0.7	3	0.068
742427	< 0.001	0.08	< 30	< 0.1	< 50	< 40	430	30	0.3	< 50	< 100	80	< 50	20	0.034	50	0.026	< 1	0.082	5.9	0.5	3	0.057
742428	< 0.001	0.09	< 30	< 0.1	< 50	< 40	480	< 20	0.3	< 50	< 100	90	< 50	20	0.031	50	0.052	< 1	0.091	6.0	0.4	3	0.059
742429	< 0.001	0.09	< 30	0.8	< 50	< 40	320	< 20	0.3	< 50	< 100	90	< 50	20	0.117	50	0.017	< 1	0.091	6.1	0.5	2	0.052
742430	0.002	0.06	< 30	0.8	< 50	< 40	180	< 20	0.4	< 50	< 100	240	< 50	20	0.027	70	0.082	< 1	0.055	6.5	0.3	1	0.203
742431	< 0.001	0.09	< 30	0.4	< 50	< 40	370	< 20	0.3	< 50	< 100	100	< 50	20	0.037	50	0.038	< 1	0.091	7.4	0.5	2	0.044
742432	< 0.001	0.09	< 30	0.1	< 50	< 40	460	< 20	0.3	< 50	< 100	100	< 50	20	0.051	50	0.025	< 1	0.082	4.8	0.5	2	0.058
742433	< 0.001	0.09	< 30	0.5	< 50	< 40	470	< 20	0.3	< 50	< 100	110	< 50	20	0.063	60	0.045	< 1	0.091	6.6	0.5	3	0.061
742434	< 0.001	0.09	< 30	0.4	< 50	< 40	590	< 20	0.3	< 50	< 100	90	< 50	20	0.024	50	0.049	< 1	0.082	4.6	0.4	2	0.051
742435	< 0.001	0.10	< 30	0.1	< 50	< 40	530	< 20	0.3	< 50	< 100	90	< 50	20	0.032	60	0.130	< 1	0.091	4.9	0.5	2	0.060
742436	< 0.001	0.10	< 30	< 0.1	< 50	< 40	440	< 20	0.3	< 50	< 100	100	< 50	20	0.016	60	0.091	< 1	0.091	5.6	0.5	3	0.064
742437	< 0.001	0.10	< 30	1.4	< 50	< 40	370	< 20	0.3	< 50	< 100	100	< 50	20	0.168	60	0.060	1	0.091	5.5	0.6	3	0.044
742438	< 0.001	0.10	150	2.4	< 50	< 40	390	< 20	0.4	< 50	< 100	100	< 50	20	0.113	60	0.032	2	0.091	6.1	0.5	2	0.052
742439	< 0.001	0.09	< 30	0.4	< 50	< 40	390	< 20	0.3	< 50	< 100	100	< 50	20	0.023	70	0.080	< 1	0.073	6.6	0.5	3	0.077
742440D	< 0.001	0.08	< 30	0.5	< 50	< 40	390	< 20	0.3	< 50	< 100	100	< 50	20	0.023	70	0.076	< 1	0.073	6.6	0.5	2	0.062
742441	< 0.001	0.09	80	2.0	< 50	< 40	330	< 20	0.3	< 50	< 100	100	< 50	20	0.196	60	0.060	2	0.073	6.6	0.5	2	0.051
742442	< 0.001	0.07	110	1.5	< 50	< 40	400	40	0.3	< 50	< 100	100	< 50	20	0.087	80	0.044	1	0.064	7.5	0.7	2	0.075
742443	< 0.001	0.09	< 30	0.3	< 50	< 40	420	< 20	0.3	< 50	< 100	90	< 50	20	0.009	60	0.083	< 1	0.082	6.1	0.4	2	0.062
742444	< 0.001	0.07	< 30	0.2	< 50	< 40	460	< 20	0.3	< 50	< 100	110	< 50	10	0.015	80	0.122	< 1	0.064	6.6	0.4	1	0.094
742445	< 0.001	0.07	< 30	0.4	< 50	< 40	500	< 20	0.3	< 50	< 100	110	< 50	10	0.026	70	0.126	< 1	0.064	7.5	0.3	< 1	0.070
742446	< 0.001	0.06	< 30	0.5	< 50	< 40	420	< 20	0.3	< 50	< 100	110	< 50	10	0.029	70	0.096	< 1	0.064	7.3	0.4	1	0.064
742447	< 0.001	0.01	< 30	< 0.1	< 50	< 40	100	< 20	0.2	< 50	< 100	< 20	< 50	20	0.004	80	0.016	< 1	0.009	8.3	0.6	< 1	0.105
742448	< 0.001	0.07	< 30	0.5	< 50	< 40	460	< 20	0.3	< 50	< 100	110	< 50	10	0.039	70	0.105	< 1	0.064	7.0	0.4	1	0.066
742449	0.001	0.06	< 30	0.2	< 50	< 40	490	< 20	0.2	< 50	< 100	90	< 50	10	0.032	60	0.120	< 1	0.064	6.2	0.4	2	0.076
742450	0.003	0.14	< 30	1.5	< 50	< 40	370	< 20	0.5	< 50	< 100	240	< 50	20	0.012	80	0.048	2	0.136	15.5	0.5	6	0.160
742451	< 0.001	0.07	< 30	0.3	< 50	< 40	510	< 20	0.3	< 50	< 100	110	< 50	10	0.014	70	0.126	< 1	0.064	5.9	0.3	< 1	0.064
742452	< 0.001	0.07	< 30	0.1	< 50	< 40	520	< 20	0.3	< 50	< 100	110	< 50	10	0.034	60	0.089	< 1	0.064	6.5	0.4	1	0.065

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS						
742453	< 0.001	0.06	< 30	< 0.1	< 50	< 40	450	< 20	0.3	< 50	< 100	100	< 50	10	0.016	50	0.100	< 1	0.055	6.0	0.3	< 1	0.077
742454	< 0.001	0.06	< 30	0.2	< 50	< 40	330	< 20	0.3	< 50	< 100	90	< 50	10	0.013	70	0.083	< 1	0.055	6.1	0.3	< 1	0.078
742455	< 0.001	0.06	< 30	0.2	< 50	< 40	440	< 20	0.3	< 50	< 100	100	< 50	10	0.054	70	0.099	< 1	0.055	6.3	0.4	< 1	0.085
742456	< 0.001	0.06	< 30	0.4	< 50	< 40	440	< 20	0.3	< 50	< 100	100	< 50	10	0.103	80	0.086	< 1	0.055	6.8	0.3	< 1	0.068
742457	0.001	0.06	< 30	0.2	< 50	< 40	350	90	0.3	< 50	< 100	110	< 50	10	0.092	70	0.089	< 1	0.064	7.8	0.4	< 1	0.085
742458	< 0.001	0.07	370	0.4	< 50	< 40	370	< 20	0.3	< 50	< 100	110	< 50	10	0.281	70	0.124	< 1	0.064	6.8	0.3	< 1	0.082
742459	< 0.001	0.06	280	0.6	< 50	< 40	360	< 20	0.3	< 50	< 100	110	< 50	10	0.281	70	0.093	< 1	0.060	6.6	0.3	13	0.065
742460D	< 0.001	0.06	310	0.6	< 50	< 40	350	< 20	0.3	< 50	< 100	100	< 50	10	0.295	70	0.089	< 1	0.060	6.5	0.3	12	0.058
742461	< 0.001	0.07	40	0.4	< 50	< 40	440	< 20	0.3	< 50	< 100	110	< 50	20	0.121	80	0.126	< 1	0.060	5.9	0.3	10	0.062
742462	< 0.001	0.10	< 30	0.4	< 50	< 40	470	< 20	0.3	< 50	< 100	100	< 50	20	0.024	60	0.043	< 1	0.090	6.0	0.6	13	0.070
742463	< 0.001	0.09	30	1.0	< 50	< 40	480	< 20	0.3	< 50	< 100	100	< 50	20	0.066	50	0.061	< 1	0.090	5.2	0.6	10	0.062
742464	< 0.001	0.07	780	0.6	< 50	< 40	260	< 20	0.3	< 50	< 100	110	< 50	10	0.489	80	0.013	< 1	0.060	6.9	0.4	9	0.075
742465	< 0.001	0.07	50	< 0.1	< 50	< 40	280	< 20	0.3	< 50	< 100	110	< 50	10	0.023	70	0.038	< 1	0.060	6.0	0.4	8	0.055
742466	< 0.001	0.07	50	< 0.1	< 50	< 40	280	< 20	0.3	< 50	< 100	110	< 50	10	0.018	70	0.054	< 1	0.070	7.3	0.4	8	0.123
742467	< 0.001	0.07	< 30	< 0.1	< 50	< 40	300	< 20	0.3	< 50	< 100	120	< 50	10	0.015	70	0.029	< 1	0.070	7.5	0.5	7	0.057
742468	< 0.001	0.06	< 30	0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	110	< 50	10	0.019	70	0.041	< 1	0.060	6.4	0.3	7	0.056
742469	< 0.001	0.06	< 30	< 0.1	< 50	< 40	440	< 20	0.3	< 50	< 100	110	< 50	10	0.013	70	0.069	< 1	0.055	6.0	0.4	< 1	0.064
742470	0.001	0.06	50	0.7	< 50	< 40	160	< 20	0.4	< 50	< 100	220	< 50	20	0.025	60	0.094	< 1	0.050	6.2	0.3	3	0.208
742471	< 0.001	0.06	< 30	< 0.1	< 50	< 40	370	< 20	0.3	< 50	< 100	110	< 50	10	0.011	70	0.015	< 1	0.055	6.3	0.3	< 1	0.081
742472	< 0.001	0.07	< 30	< 0.1	< 50	< 40	390	90	0.3	< 50	< 100	110	< 50	10	0.011	70	0.009	< 1	0.055	5.6	0.4	< 1	0.073
742473	< 0.001	0.05	< 30	< 0.1	< 50	< 40	390	< 20	0.3	< 50	< 100	100	< 50	< 10	0.015	60	0.089	< 1	0.055	5.8	0.3	< 1	0.079
742474	< 0.001	0.06	< 30	< 0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	100	< 50	10	0.029	70	0.068	< 1	0.064	7.0	0.4	< 1	0.080
742475	< 0.001	0.06	< 30	< 0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	110	< 50	10	0.017	70	0.069	< 1	0.064	7.8	0.4	2	0.096
742476	< 0.001	0.06	30	< 0.1	< 50	< 40	370	< 20	0.3	< 50	< 100	110	< 50	10	0.015	70	0.114	< 1	0.064	8.0	0.4	< 1	0.084
742477	< 0.001	0.06	< 30	0.1	< 50	< 40	370	< 20	0.3	< 50	< 100	90	< 50	10	0.012	70	0.083	< 1	0.064	7.5	0.4	2	0.054
742478	< 0.001	0.06	< 30	0.2	< 50	< 40	400	< 20	0.2	< 50	< 100	90	< 50	10	0.011	70	0.064	< 1	0.055	5.7	0.4	< 1	0.056
742479	< 0.001	0.05	< 30	0.4	< 50	< 40	600	< 20	0.2	< 50	< 100	90	< 50	10	0.010	60	0.065	< 1	0.055	5.7	0.4	< 1	0.058
742480D	< 0.001	0.06	< 30	0.4	< 50	< 40	630	< 20	0.2	< 50	< 100	90	< 50	10	0.011	70	0.066	< 1	0.055	5.7	0.4	< 1	0.062
742481	< 0.001	0.06	< 30	0.2	< 50	< 40	530	< 20	0.3	< 50	< 100	100	< 50	10	0.012	70	0.074	< 1	0.055	6.2	0.4	< 1	0.065
742482	< 0.001	0.06	< 30	0.2	< 50	< 40	380	< 20	0.3	< 50	< 100	100	< 50	10	0.013	70	0.031	< 1	0.055	5.7	0.3	< 1	0.091
742483	< 0.001	0.05	< 30	< 0.1	< 50	< 40	230	< 20	0.3	< 50	< 100	100	< 50	< 10	0.013	70	0.014	< 1	0.055	6.1	0.3	< 1	0.080
742484	< 0.001	0.06	< 30	0.2	< 50	< 40	300	< 20	0.2	< 50	< 100	90	< 50	10	0.016	60	0.010	< 1	0.055	6.1	0.4	< 1	0.078
742485	< 0.001	0.06	< 30	0.2	< 50	< 40	390	< 20	0.3	< 50	< 100	100	< 50	10	0.015	70	0.035	< 1	0.055	5.2	0.4	< 1	0.051
742486	< 0.001	0.06	< 30	0.1	< 50	< 40	430	< 20	0.3	< 50	< 100	110	< 50	10	0.020	70	0.094	< 1	0.055	5.9	0.3	< 1	0.080
742487	< 0.001	0.05	< 30	< 0.1	< 50	< 40	370	< 20	0.2	< 50	< 100	90	< 50	10	0.017	50	0.078	< 1	0.055	6.0	0.3	< 1	0.084
742488	< 0.001	0.06	< 30	< 0.1	< 50	< 40	310	< 20	0.2	< 50	< 100	90	< 50	10	0.015	< 50	0.042	< 1	0.055	6.6	0.4	< 1	0.102
742489	< 0.001	0.06	< 30	< 0.1	< 50	< 40	260	< 20	0.2	< 50	< 100	90	< 50	10	0.019	50	0.013	< 1	0.055	6.5	0.3	2	0.074
742490	0.003	0.05	< 30	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	90	< 50	20	0.005	60	0.133	< 1	0.045	8.2	0.3	6	0.127
742491	< 0.001	0.06	< 30	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	100	< 50	10	0.015	< 50	0.010	< 1	0.055	7.2	0.3	2	0.086
742492	< 0.001	0.07	< 30	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	110	< 50	10	0.018	70	0.011	< 1	0.064	7.3	0.4	1	0.087
742493	< 0.001	0.06	< 30	< 0.1	< 50	< 40	220	< 20	0.3	< 50	< 100	100	< 50	10	0.022	60	0.008	< 1	0.064	6.3	0.4	< 1	0.085
742494	< 0.001	0.07	< 30	0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	110	< 50	10	0.028	70	0.010	< 1	0.055	6.1	0.3	< 1	0.082

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742495	< 0.001	0.06	< 30	< 0.1	< 50	< 40	230	< 20	0.3	< 50	< 100	100	< 50	10	0.045	70	0.005	< 1	0.064	5.9	1.7	2	0.114
742496	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	110	< 20	< 0.1	< 50	< 100	< 20	< 50	30	0.004	170	0.015	< 1	< 0.001	5.6	0.9	< 1	0.160
742497	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	80	< 20	0.1	< 50	< 100	< 20	< 50	30	0.002	160	0.017	< 1	< 0.001	5.5	0.8	< 1	0.174
742498	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	80	< 20	0.1	< 50	< 100	< 20	< 50	30	0.003	160	0.015	< 1	< 0.001	5.8	0.8	< 1	0.182
742499	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	140	< 20	0.1	< 50	< 100	< 20	< 50	30	0.012	170	0.013	< 1	< 0.001	5.1	1.9	< 1	0.203
742500D	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	150	< 20	0.1	< 50	< 100	< 20	< 50	30	0.012	170	0.014	< 1	< 0.001	5.3	2.0	2	0.206
718901	< 0.001	0.06	< 30	0.2	< 50	< 40	390	< 20	0.3	< 50	< 100	100	< 50	10	0.191	80	0.011	< 1	0.064	6.2	0.6	< 1	0.110
718902	< 0.001	0.07	< 30	1.5	< 50	< 40	460	< 20	0.3	< 50	< 100	100	< 50	20	0.163	80	0.015	2	0.073	6.6	0.5	< 1	0.063
718903	< 0.001	0.06	< 30	0.3	< 50	< 40	310	< 20	0.3	< 50	< 100	90	< 50	10	0.044	70	0.027	< 1	0.055	5.7	0.4	1	0.071
718904	< 0.001	0.08	80	3.0	< 50	< 40	320	< 20	0.3	< 50	< 100	110	< 50	20	0.039	70	0.021	3	0.082	3.5	0.6	< 1	0.061
718905	< 0.001	0.08	60	2.1	< 50	< 40	360	< 20	0.3	< 50	< 100	100	< 50	20	0.022	60	0.049	2	0.073	4.0	0.5	1	0.079
718906	< 0.001	0.09	70	2.4	< 50	< 40	400	< 20	0.3	< 50	< 100	120	< 50	20	0.276	80	0.048	2	0.091	4.2	0.4	2	0.076
718907	< 0.001	0.09	80	2.6	< 50	< 40	350	< 20	0.4	< 50	< 100	120	< 50	20	0.015	80	0.081	3	0.091	3.5	0.5	1	0.078
718908	< 0.001	0.09	80	3.2	< 50	< 40	410	30	0.3	< 50	< 100	110	< 50	20	0.059	80	0.034	3	0.091	3.7	0.5	1	0.079
718909	< 0.001	0.09	80	3.3	< 50	< 40	350	< 20	0.4	< 50	< 100	110	< 50	20	0.014	80	0.075	3	0.082	2.6	0.5	4	0.071
718910	0.001	0.06	50	0.7	< 50	< 40	170	< 20	0.4	< 50	< 100	220	< 50	20	0.025	60	0.078	< 1	0.045	6.2	0.2	1	0.224
718911	< 0.001	0.05	120	3.0	< 50	< 40	290	< 20	0.3	< 50	< 100	70	< 50	10	0.640	< 50	0.039	3	0.050	4.5	0.3	4	0.039
718912	< 0.001	0.05	410	2.2	< 50	< 40	470	< 20	0.3	< 50	< 100	70	< 50	10	1.13	< 50	0.024	2	0.055	6.3	0.3	1	0.067
718913	0.008	0.13	< 30	< 0.1	< 50	< 40	120	< 20	0.2	< 50	< 100	130	< 50	20	0.028	< 50	0.379	< 1	0.136	38.3	1.4	16	0.106
718914	< 0.001	0.05	260	2.1	< 50	< 40	330	< 20	0.3	< 50	< 100	70	< 50	10	0.962	< 50	0.022	2	0.055	6.4	0.4	1	0.062
718915	< 0.001	0.06	450	1.7	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.930	< 50	0.037	2	0.064	4.3	0.5	2	0.082
718916	< 0.001	0.08	< 30	< 0.1	< 50	< 40	790	< 20	0.3	< 50	< 100	50	< 50	20	0.007	< 50	0.204	< 1	0.080	29.3	0.4	3	0.137
718917	< 0.001	0.07	260	1.8	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.723	< 50	0.021	2	0.064	4.4	0.4	1	0.081
718918	< 0.001	0.06	< 30	1.4	< 50	< 40	270	20	0.3	< 50	< 100	80	< 50	20	0.300	< 50	0.064	1	0.055	4.4	0.3	< 1	0.074
718919	< 0.001	0.06	< 30	1.4	< 50	< 40	250	30	0.3	< 50	< 100	70	< 50	20	0.171	< 50	0.028	1	0.055	4.5	0.3	< 1	0.070
718920D	< 0.001	0.06	30	1.3	< 50	< 40	260	< 20	0.3	< 50	< 100	70	< 50	20	0.176	< 50	0.028	1	0.055	4.3	0.3	< 1	0.055
718921	< 0.001	0.06	40	4.2	< 50	< 40	180	< 20	0.3	< 50	< 100	80	< 50	20	0.248	60	0.008	4	0.055	4.6	0.4	< 1	0.052
718922	< 0.001	0.05	970	1.0	< 50	< 40	210	< 20	0.3	< 50	< 100	70	< 50	20	0.972	70	0.006	1	0.055	5.0	0.4	1	0.092
718923	< 0.001	0.05	1710	1.5	< 50	< 40	370	< 20	0.3	< 50	< 100	80	< 50	20	1.04	50	0.007	2	0.064	6.0	0.6	1	0.087
718924	< 0.001	0.07	460	0.5	< 50	< 40	410	< 20	0.3	< 50	< 100	80	< 50	20	0.490	< 50	0.017	< 1	0.064	5.7	0.3	< 1	0.093
718925	< 0.001	0.07	440	0.3	< 50	< 40	310	< 20	0.3	< 50	< 100	80	< 50	20	0.290	< 50	0.032	< 1	0.073	4.8	0.3	< 1	0.068
718926	< 0.001	0.07	< 30	0.3	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.175	< 50	0.038	< 1	0.064	4.1	0.4	< 1	0.062
718927	< 0.001	0.06	130	0.8	< 50	< 40	290	< 20	0.3	< 50	< 100	80	< 50	20	0.528	< 50	0.032	< 1	0.064	4.2	0.4	1	0.083
718928	< 0.001	0.07	70	0.5	< 50	< 40	450	< 20	0.3	< 50	< 100	80	< 50	20	0.196	< 50	0.050	< 1	0.064	4.5	0.4	< 1	0.065
718929	< 0.001	0.06	60	1.1	< 50	< 40	220	< 20	0.3	< 50	< 100	80	< 50	20	0.269	< 50	0.016	1	0.055	3.4	0.4	2	0.082
718930	< 0.001	0.05	< 30	3.4	< 50	< 40	260	< 20	0.3	< 50	< 100	260	< 50	20	0.010	< 50	0.007	3	0.036	4.8	0.3	< 1	0.035
718931	< 0.001	0.06	40	1.1	< 50	< 40	260	< 20	0.3	< 50	< 100	80	< 50	20	0.425	< 50	0.040	1	0.060	3.9	0.3	5	0.052
718932	< 0.001	0.06	60	1.0	< 50	< 40	300	< 20	0.3	< 50	< 100	80	< 50	20	0.202	< 50	0.054	< 1	0.064	4.7	0.3	< 1	0.079
718933	< 0.001	0.06	40	1.0	< 50	< 40	200	< 20	0.3	< 50	< 100	80	< 50	20	0.778	< 50	0.005	1	0.064	6.0	0.4	2	0.073
718934	< 0.001	0.06	< 30	0.5	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.708	< 50	0.014	< 1	0.055	4.5	0.4	< 1	0.061
718935	< 0.001	0.06	280	0.4	< 50	< 40	300	< 20	0.3	< 50	< 100	80	< 50	20	0.471	< 50	0.034	< 1	0.073	4.1	0.3	2	0.078
718936	< 0.001	0.06	60	0.7	< 50	< 40	350	< 20	0.3	< 50	< 100	80	< 50	20	0.800	< 50	0.030	< 1	0.064	3.8	0.4	< 1	0.052

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
718937	< 0.001	0.07	80	1.1	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	20	0.611	< 50	0.031	1	0.064	4.3	0.3	< 1	0.052
718938	< 0.001	0.06	160	0.8	< 50	< 40	290	< 20	0.3	< 50	< 100	70	< 50	20	0.077	< 50	0.010	< 1	0.055	4.0	0.4	< 1	0.100
718939	< 0.001	0.06	180	0.5	< 50	< 40	330	< 20	0.3	< 50	< 100	70	< 50	20	0.129	< 50	0.035	< 1	0.064	3.9	0.4	1	0.094
718940D	< 0.001	0.06	180	0.5	< 50	< 40	340	< 20	0.3	< 50	< 100	80	< 50	20	0.142	< 50	0.033	< 1	0.064	3.6	0.4	< 1	0.064
718941	< 0.001	0.07	280	0.4	< 50	< 40	320	< 20	0.3	< 50	< 100	80	< 50	20	0.293	< 50	0.044	< 1	0.064	4.3	0.4	< 1	0.061
718942	< 0.001	0.07	390	0.7	< 50	< 40	290	< 20	0.3	< 50	< 100	80	< 50	20	0.391	< 50	0.033	< 1	0.064	4.6	0.4	< 1	0.101
718943	< 0.001	0.07	170	0.8	< 50	< 40	320	< 20	0.3	< 50	< 100	80	< 50	20	0.463	< 50	0.049	< 1	0.073	4.9	0.3	1	0.105
718944	< 0.001	0.06	< 30	1.5	< 50	< 40	240	< 20	0.2	< 50	< 100	70	< 50	10	1.70	< 50	0.012	2	0.064	9.9	0.4	2	0.067
718945	< 0.001	0.05	110	1.6	< 50	< 40	180	< 20	0.2	< 50	< 100	60	< 50	10	1.48	< 50	0.004	2	0.045	6.2	0.4	1	0.055
718946	< 0.001	0.07	< 30	< 0.1	< 50	< 40	420	< 20	0.2	< 50	< 100	100	< 50	20	0.017	100	0.041	< 1	0.080	8.2	0.4	6	0.074
718947	< 0.001	0.06	30	< 0.1	< 50	< 40	440	< 20	0.3	< 50	< 100	120	< 50	20	0.012	100	0.101	< 1	0.060	8.3	0.3	4	0.053
718948	< 0.001	0.08	30	0.2	< 50	< 40	410	< 20	0.3	< 50	< 100	130	< 50	20	0.015	110	0.118	< 1	0.082	8.9	0.4	< 1	0.089
718949	< 0.001	0.06	< 30	0.5	< 50	< 40	250	< 20	0.3	< 50	< 100	70	< 50	20	0.010	< 50	0.014	< 1	0.067	4.0	0.5	4	0.094
718950	0.002	0.06	< 30	0.7	< 50	< 40	160	< 20	0.4	< 50	< 100	220	< 50	20	0.024	60	0.081	< 1	0.055	6.5	0.3	< 1	0.250
741401	< 0.001	0.06	< 30	0.5	< 50	< 40	220	< 20	0.3	< 50	< 100	70	< 50	20	0.007	< 50	0.006	< 1	0.064	4.2	0.5	< 1	0.107
741402	< 0.001	0.05	< 30	0.2	< 50	< 40	270	< 20	0.2	< 50	< 100	60	< 50	20	0.011	< 50	0.002	< 1	0.055	3.6	0.4	1	0.094
741403	< 0.001	0.06	< 30	0.4	< 50	< 40	180	< 20	0.3	< 50	< 100	70	< 50	20	0.010	< 50	0.004	< 1	0.055	3.2	0.4	1	0.101
741404	< 0.001	0.06	< 30	< 0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	70	< 50	20	0.022	< 50	0.006	< 1	0.064	3.3	0.3	1	0.099
741405	< 0.001	0.05	50	0.2	< 50	< 40	220	50	0.3	< 50	< 100	70	< 50	20	0.045	70	0.008	< 1	0.055	3.0	0.4	1	0.117
741406	< 0.001	0.05	< 30	0.1	< 50	< 40	200	< 20	0.3	< 50	< 100	60	< 50	20	0.056	60	0.015	< 1	0.055	3.0	0.3	1	0.101
741407	< 0.001	0.06	70	0.3	< 50	< 40	240	< 20	0.3	< 50	< 100	70	< 50	20	0.223	< 50	0.035	< 1	0.055	3.3	0.4	2	0.094
741408	< 0.001	0.06	50	0.7	< 50	< 40	230	< 20	0.3	< 50	< 100	70	< 50	20	0.502	< 50	0.005	< 1	0.055	3.4	0.3	< 1	0.085
741409	< 0.001	0.05	< 30	0.6	< 50	< 40	240	< 20	0.3	< 50	< 100	70	< 50	20	0.220	< 50	0.005	< 1	0.055	3.2	0.3	1	0.078
741410D	< 0.001	0.05	< 30	0.5	< 50	< 40	240	< 20	0.3	< 50	< 100	70	< 50	20	0.212	< 50	0.005	< 1	0.064	3.7	0.4	< 1	0.088
741411	< 0.001	0.06	< 30	0.4	< 50	< 40	220	< 20	0.3	< 50	< 100	70	< 50	20	0.084	< 50	0.004	< 1	0.055	3.5	0.4	< 1	0.083
741412	< 0.001	0.05	< 30	0.3	< 50	< 40	270	< 20	0.3	< 50	< 100	60	< 50	20	0.013	< 50	0.005	< 1	0.055	3.5	0.4	1	0.078

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742369	0.76	1.86	0.43	0.20	2.75	4.1	59	3	2460	3.24	8.0	3.8	46.1	469	5.39	< 0.1	1.6	12.7	57.8	14.4	5.4	< 0.1	2.10
742370	1.33	2.70	0.42	0.40	1.37	9.3	152	28	311	3.45	11.3	15.0	1790	247	7.58	< 0.1	31.4	17.7	39.7	10.1	3.1	< 0.1	55.7
742371	0.96	2.15	0.43	0.50	1.94	4.4	52	3	2500	3.35	6.1	2.5	534	274	6.28	< 0.1	1.7	13.2	27.6	12.1	6.1	< 0.1	2.16
742372	0.08	1.07	0.53	3.87	0.20	2.1	18	< 1	68	4.61	8.0	1.4	8.66	75.3	2.45	< 0.1	13.5	13.8	15.3	4.95	6.1	< 0.1	2.22
742373	0.89	1.96	0.38	0.24	2.67	4.6	57	2	1920	2.99	6.6	2.5	188	454	5.74	< 0.1	1.0	12.0	40.9	12.0	5.6	< 0.1	2.40
742374	0.54	1.56	0.50	1.58	1.25	3.1	33	1	602	4.51	8.5	2.1	7.40	33.4	4.19	< 0.1	11.5	15.5	15.7	9.26	9.1	< 0.1	2.16
742375	0.73	1.74	0.46	0.82	0.87	2.2	26	< 1	401	4.69	9.7	1.9	12.5	26.4	4.11	< 0.1	9.1	13.9	13.1	6.90	7.1	< 0.1	2.28
742376	0.42	1.81	0.46	0.62	0.55	3.0	28	2	157	4.79	9.6	6.0	14.7	40.2	4.01	< 0.1	17.3	12.7	19.1	6.38	6.4	< 0.1	2.44
742377	0.60	2.19	0.47	0.52	0.50	3.8	35	< 1	156	5.03	10.0	1.6	10.8	24.7	4.90	< 0.1	13.1	12.3	26.2	6.30	7.0	< 0.1	2.18
742378	0.04	1.18	0.42	0.46	0.43	2.5	18	< 1	35	5.30	9.9	1.7	23.5	5.8	2.41	< 0.1	13.1	11.0	20.7	6.07	7.8	< 0.1	2.20
742379	0.19	1.66	0.47	1.04	0.41	3.5	27	< 1	53	4.77	8.8	1.6	19.0	12.3	3.77	< 0.1	18.4	12.3	24.1	6.20	6.5	< 0.1	1.92
742380D	0.19	1.59	0.44	1.13	0.44	3.4	26	< 1	56	5.17	9.6	1.9	20.4	22.1	3.56	< 0.1	20.1	11.7	22.6	6.37	7.3	< 0.1	2.00
742381	0.84	2.39	0.39	1.12	0.56	3.9	38	< 1	298	5.21	8.5	1.5	7.55	34.2	5.46	< 0.1	16.1	10.5	40.3	6.71	5.7	< 0.1	1.60
742382	0.09	1.12	0.32	0.51	2.02	2.4	17	< 1	41	4.17	8.2	2.0	10.0	3.1	2.40	< 0.1	16.7	8.5	45.7	5.10	5.9	< 0.1	1.66
742383	0.06	1.52	0.45	0.48	3.41	2.9	23	< 1	59	3.96	7.7	2.2	7.60	5.3	3.15	< 0.1	11.2	11.9	268	5.97	6.0	< 0.1	1.66
742384	0.04	1.19	0.36	0.60	2.99	2.8	16	< 1	33	3.50	8.0	2.1	7.53	2.9	2.20	< 0.1	16.0	9.0	175	5.72	5.8	< 0.1	1.86
742385	0.12	1.50	0.40	0.68	2.78	2.9	22	< 1	36	3.69	6.9	2.5	6.51	9.7	2.97	< 0.1	16.3	10.1	215	5.37	4.6	< 0.1	1.59
742386	0.21	1.63	0.36	0.67	3.04	3.0	23	< 1	34	3.60	6.3	1.8	8.55	10.8	3.52	< 0.1	9.8	9.6	234	5.14	4.6	< 0.1	1.19
742387	0.05	1.25	0.35	0.84	3.36	2.3	18	< 1	34	3.69	6.4	2.0	9.79	3.6	2.59	< 0.1	8.1	9.4	243	5.75	4.4	< 0.1	1.38
742388	0.65	1.88	0.29	0.85	2.43	2.8	27	< 1	263	3.36	5.5	1.6	10.5	21.0	4.30	< 0.1	9.7	8.6	242	5.14	3.6	< 0.1	1.66
742389	2.04	3.51	0.21	0.75	1.95	3.4	48	< 1	974	3.35	5.7	1.8	12.2	120	8.33	< 0.1	7.9	7.1	162	6.55	4.0	< 0.1	1.39
742390	1.22	2.40	0.38	0.39	1.26	8.8	142	26	284	3.30	10.9	14.6	1760	237	7.00	< 0.1	29.4	16.6	37.1	9.62	3.0	< 0.1	52.0
742391	0.91	2.59	0.25	0.90	2.21	4.0	36	< 1	195	3.05	7.2	1.6	11.4	32.3	5.78	< 0.1	9.5	7.5	191	4.74	3.9	< 0.1	1.80
742392	0.41	1.82	0.31	1.34	2.75	3.5	27	< 1	58	3.29	7.7	1.6	9.54	15.3	4.00	< 0.1	9.2	8.3	210	3.97	4.6	< 0.1	1.87
742393	0.19	1.52	0.39	2.03	3.11	3.1	23	< 1	43	3.06	7.4	1.7	8.83	11.1	3.29	< 0.1	8.6	10.2	235	3.97	4.4	< 0.1	1.85
742394	0.14	1.43	0.41	3.41	3.49	3.0	21	< 1	37	3.08	7.1	2.0	9.68	6.6	3.14	< 0.1	13.1	10.4	226	4.29	5.0	< 0.1	1.99
742395	0.24	1.59	0.38	2.13	3.43	3.1	24	< 1	41	2.90	7.1	1.8	8.90	12.6	3.50	< 0.1	10.8	9.5	220	3.83	4.4	< 0.1	1.60
742396	0.24	1.60	0.39	2.33	3.49	3.1	24	< 1	54	2.98	7.0	2.0	7.99	12.9	3.60	< 0.1	10.3	9.9	266	4.00	4.8	< 0.1	1.60
742397	0.20	1.56	0.43	3.31	3.72	3.0	23	< 1	43	2.70	4.7	1.9	5.13	9.1	3.41	< 0.1	10.7	11.1	276	4.60	4.8	< 0.1	1.60
742398	0.65	2.28	0.28	1.63	2.44	3.9	33	< 1	72	3.29	5.1	1.6	4.78	38.3	5.24	< 0.1	16.7	7.3	185	4.30	4.0	< 0.1	1.51
742399	0.70	2.49	0.32	1.94	2.63	4.3	35	< 1	72	2.74	5.8	1.6	5.26	49.3	5.57	< 0.1	15.0	8.1	210	4.66	4.3	< 0.1	1.65
742400D	0.69	2.50	0.33	1.84	2.60	4.2	35	< 1	69	2.68	5.6	1.9	5.76	51.7	5.63	< 0.1	14.2	8.3	194	4.57	4.3	< 0.1	1.64
742401	0.10	1.09	0.23	3.83	3.66	2.5	18	< 1	25	2.83	6.3	1.9	7.16	26.4	2.46	< 0.1	16.4	5.8	260	3.48	4.7	< 0.1	1.55
742402	0.01	0.68	0.10	2.63	3.77	1.9	12	< 1	12	3.07	6.6	2.2	6.49	2.3	1.74	< 0.1	14.0	2.3	267	2.60	4.4	< 0.1	1.47
742403	0.02	1.00	0.28	1.70	4.81	2.4	17	< 1	16	2.22	7.1	2.5	7.38	1.0	2.46	< 0.1	14.8	6.1	249	4.21	5.3	< 0.1	1.55
742404	0.02	0.98	0.32	2.46	4.20	2.4	16	< 1	15	2.46	7.7	2.3	7.96	1.7	2.28	< 0.1	11.1	6.9	255	4.31	4.6	< 0.1	1.54
742405	0.02	0.84	0.28	2.37	3.63	2.1	13	< 1	16	2.61	5.9	2.0	6.33	1.7	1.83	< 0.1	6.5	6.0	234	3.94	4.3	< 0.1	1.54
742406	< 0.01	0.60	0.05	1.47	3.68	2.0	12	< 1	11	1.82	5.8	2.1	5.51	1.6	1.38	< 0.1	5.2	1.1	224	2.45	4.0	< 0.1	1.58
742407	0.01	0.57	0.20	3.21	3.17	1.7	9	< 1	18	3.65	5.5	2.6	6.07	2.0	1.33	< 0.1	17.2	4.2	187	3.35	4.0	< 0.1	2.15
742408	0.37	1.45	0.51	0.74	1.54	3.8	40	2	550	2.79	8.8	3.8	16.1	69.1	4.24	< 0.1	5.3	12.0	256	5.67	3.8	< 0.1	3.04
742409	0.70	1.76	0.50	0.56	1.68	4.7	59	3	1150	4.23	10.5	4.4	18.9	125	6.15	< 0.1	4.4	14.5	176	9.44	8.3	< 0.1	2.41
742410	1.62	1.95	0.40	0.32	4.12	10.7	145	38	924	5.54	22.7	29.7	1060	107	7.38	< 0.1	47.7	18.2	129	12.8	3.4	< 0.1	15.9

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742411	0.76	1.78	0.47	0.29	2.44	4.1	53	2	1600	3.08	7.6	2.6	115	220	5.36	< 0.1	1.8	15.5	90.0	11.8	5.0	< 0.1	2.29
742412	0.90	2.05	0.60	0.44	2.36	4.5	48	2	1890	3.78	8.4	2.3	83.6	155	6.66	< 0.1	5.8	20.3	59.0	11.5	5.3	< 0.1	2.70
742413	0.86	1.94	0.50	0.06	2.42	4.7	48	2	1950	3.73	7.7	2.0	35.8	387	6.66	< 0.1	2.8	16.6	114	11.2	5.3	< 0.1	1.40
742414	0.90	2.07	0.54	0.13	2.61	4.3	45	1	1980	3.81	8.0	2.1	24.0	169	6.62	< 0.1	2.0	18.1	159	12.1	4.1	< 0.1	0.99
742415	0.81	2.07	0.61	0.12	2.36	3.9	39	< 1	1760	3.05	5.5	1.8	9.49	121	6.16	< 0.1	1.4	20.7	191	11.9	2.7	< 0.1	2.68
742416	0.80	2.06	0.62	0.24	2.28	4.0	38	< 1	1610	3.42	7.6	1.7	13.1	109	6.04	< 0.1	2.7	20.8	93.7	10.8	3.6	< 0.1	4.70
742417	0.64	2.41	0.83	0.77	3.16	5.2	48	< 1	1780	3.98	9.1	3.4	26.7	307	6.57	< 0.1	14.2	29.2	207	12.0	3.8	< 0.1	5.44
742418	0.63	2.00	0.63	0.62	3.06	3.9	41	< 1	1890	3.63	8.9	2.0	59.1	153	6.22	< 0.1	17.7	21.3	84.3	10.1	7.0	< 0.1	4.64
742419	0.28	1.40	0.46	0.19	3.94	3.3	25	1	1790	2.02	6.1	2.7	52.3	272	0.94	< 0.1	5.1	13.5	111	8.23	3.0	< 0.1	1.66
742420D	0.26	1.31	0.43	0.17	3.77	3.1	24	< 1	1690	1.90	5.7	2.6	48.9	254	0.72	< 0.1	5.1	12.3	106	7.75	3.1	< 0.1	1.54
742421	0.79	1.64	0.38	0.23	2.41	3.6	43	4	1940	2.62	8.0	3.3	79.7	230	4.54	< 0.1	4.9	10.9	157	7.17	5.4	< 0.1	1.72
742422	0.80	1.83	0.42	0.41	2.40	3.8	45	3	2110	2.85	8.3	3.6	112	251	5.51	< 0.1	5.7	12.9	159	8.20	5.4	< 0.1	1.85
742423	0.88	1.92	0.41	0.58	2.84	4.6	54	6	2450	3.25	10.0	5.5	128	826	5.94	< 0.1	36.2	13.2	77.4	8.92	6.2	< 0.1	3.31
742424	2.05	2.31	0.24	0.06	3.77	11.3	122	32	3030	5.15	22.9	27.3	58.9	431	6.21	< 0.1	2.1	9.9	159	14.6	2.4	< 0.1	0.57
742425	0.88	2.26	0.55	0.08	2.30	4.9	38	4	1680	2.89	7.9	2.3	4.09	433	7.86	< 0.1	3.0	23.7	115	12.4	1.6	< 0.1	0.42
742426	0.90	2.01	0.39	0.04	2.01	4.9	59	3	1390	2.82	9.9	2.4	5.08	524	6.54	< 0.1	1.2	16.8	138	12.9	4.9	< 0.1	0.37
742427	0.81	1.78	0.32	0.09	1.99	4.1	36	6	1180	2.36	8.6	2.9	2.90	336	5.80	< 0.1	1.0	11.8	137	11.2	2.1	< 0.1	0.39
742428	0.78	1.84	0.32	0.12	2.00	4.3	38	5	1380	2.69	8.9	3.0	17.5	300	6.73	< 0.1	1.2	11.4	135	12.4	5.5	< 0.1	0.42
742429	0.72	2.11	0.49	0.43	1.76	3.8	28	4	1900	2.93	12.7	2.6	29.8	1040	5.84	< 0.1	1.3	17.6	93.0	11.0	2.8	< 0.1	0.72
742430	1.48	2.64	0.40	0.40	1.38	9.1	147	26	309	3.42	12.2	14.9	1860	243	6.96	< 0.1	30.9	18.9	38.7	10.4	3.0	< 0.1	55.8
742431	0.96	2.17	0.40	0.27	2.10	3.6	32	4	2000	2.83	10.7	3.1	5.25	348	5.72	< 0.1	1.5	14.5	111	10.1	4.7	< 0.1	0.55
742432	0.72	1.98	0.38	0.08	2.11	3.4	36	5	1900	2.43	7.0	2.6	31.9	462	5.58	< 0.1	1.9	14.5	141	10.3	2.8	< 0.1	0.43
742433	1.02	2.25	0.39	0.22	1.99	4.7	42	18	2120	3.16	9.0	7.5	29.6	605	6.49	< 0.1	4.9	14.8	132	10.7	5.0	< 0.1	0.61
742434	0.70	1.90	0.34	0.17	2.48	3.2	32	5	1760	2.44	6.0	2.7	8.44	212	5.91	< 0.1	3.5	12.9	197	10.3	5.2	< 0.1	0.61
742435	0.79	2.16	0.39	0.10	1.99	3.9	36	5	1500	2.43	7.3	2.6	18.0	295	6.31	< 0.1	1.7	15.2	141	12.1	9.3	0.3	0.47
742436	0.81	2.38	0.50	0.13	2.03	4.1	36	5	1430	2.62	5.8	3.0	163	144	6.19	< 0.1	1.8	19.5	140	11.1	7.1	0.1	0.43
742437	0.76	2.04	0.50	0.92	1.57	3.4	29	4	1410	3.06	7.7	3.8	50.0	1610	5.81	< 0.1	6.6	19.8	101	10.2	8.7	0.2	1.18
742438	0.79	1.79	0.46	0.65	1.51	3.4	30	8	1570	3.67	7.7	4.1	34.7	1050	5.62	< 0.1	7.6	18.4	82.3	10.4	7.1	< 0.1	1.27
742439	0.88	2.37	0.52	0.26	1.74	4.7	44	5	1690	2.84	6.7	3.2	20.9	212	6.66	< 0.1	6.2	19.7	123	9.27	7.3	0.1	1.08
742440D	0.88	2.20	0.45	0.25	1.77	4.4	41	5	1710	2.83	7.1	3.1	18.0	212	6.39	< 0.1	7.3	17.0	126	9.21	6.8	0.1	1.11
742441	0.84	1.85	0.41	0.78	1.27	3.8	34	5	1490	3.42	7.7	3.0	78.3	1750	5.93	< 0.1	6.2	16.0	64.0	8.95	8.4	0.1	1.59
742442	0.77	2.12	0.53	0.68	1.98	4.6	39	3	1960	3.26	8.3	3.1	88.6	823	6.92	< 0.1	6.1	21.3	94.2	11.7	7.3	< 0.1	1.22
742443	0.77	2.02	0.37	0.18	1.93	3.8	34	5	1380	2.56	4.5	3.2	12.8	88.8	6.07	< 0.1	2.7	14.2	126	9.54	6.2	0.2	0.75
742444	1.00	2.11	0.27	0.26	2.02	6.1	69	6	1890	3.21	8.9	3.3	52.1	131	7.50	< 0.1	1.4	7.8	191	7.67	11.8	0.1	2.28
742445	1.01	1.87	0.21	0.32	2.02	5.5	67	7	1690	3.18	9.6	3.8	50.3	236	6.88	< 0.1	1.7	6.5	162	6.77	13.2	0.1	2.16
742446	0.98	1.89	0.28	0.44	2.22	5.1	58	13	1850	3.24	10.5	3.5	31.4	280	6.43	< 0.1	1.4	8.7	140	6.58	12.1	0.1	2.08
742447	0.11	0.40	0.22	0.21	0.38	1.0	9	10	289	1.10	0.9	2.0	1.98	32.1	2.54	0.1	0.6	13.2	15.8	14.3	6.2	2.5	2.12
742448	0.93	1.86	0.25	0.30	2.11	5.4	61	10	1770	3.16	10.6	2.9	20.9	348	6.65	< 0.1	1.4	7.9	157	6.79	11.4	0.2	1.85
742449	0.97	2.13	0.29	0.31	2.16	5.3	59	11	1920	3.00	8.8	4.0	62.4	305	7.00	< 0.1	1.4	9.5	198	6.88	11.7	0.1	2.35
742450	1.92	2.29	0.46	0.30	4.62	12.1	157	41	978	6.43	23.5	31.0	1120	116	7.98	< 0.1	47.7	23.3	140	13.8	4.1	< 0.1	15.2
742451	0.98	1.91	0.23	0.28	1.88	5.0	57	11	1750	2.91	8.9	3.0	33.9	133	6.23	< 0.1	1.5	7.6	198	6.31	12.8	0.2	1.83
742452	0.95	1.83	0.18	0.17	1.97	5.7	65	9	1700	3.03	9.2	3.3	32.9	300	6.95	< 0.1	1.4	5.2	218	6.94	10.0	< 0.1	2.51

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
742453	0.89	1.65	0.18	0.11	1.79	5.7	63	10	1530	2.85	7.8	2.7	28.2	128	6.78	< 0.1	1.6	5.2	192	6.82	10.9	< 0.1	1.71
742454	0.76	1.37	0.14	0.18	1.97	5.2	58	8	1410	2.78	7.8	3.1	15.6	104	6.47	< 0.1	1.8	4.0	127	6.64	10.4	0.1	1.74
742455	0.85	1.42	0.16	0.66	1.69	5.7	67	8	1570	3.03	7.3	2.7	67.1	490	6.86	0.1	1.6	4.2	135	6.88	13.1	0.1	1.61
742456	0.96	1.84	0.24	1.03	1.73	5.1	61	9	2020	3.16	9.0	3.3	81.7	980	6.53	< 0.1	1.2	7.5	136	6.61	12.2	0.1	2.23
742457	0.99	1.73	0.17	0.31	2.32	6.9	74	9	1790	3.26	8.4	3.1	95.3	895	7.32	< 0.1	1.6	4.4	124	7.62	9.4	< 0.1	1.77
742458	1.01	1.69	0.16	1.07	1.70	5.9	74	12	2090	3.24	8.9	3.4	186	2770	7.04	< 0.1	1.4	4.4	104	6.53	15.1	0.2	2.61
742459	0.90	1.42	0.17	0.99	1.68	3.9	65	10	1640	2.83	9.8	2.7	180	2660	6.29	< 0.1	0.7	4.7	83.5	6.91	1.0	< 0.1	2.25
742460D	0.89	1.38	0.15	1.06	1.66	3.9	63	10	1660	2.80	9.8	3.3	190	2860	5.75	< 0.1	0.7	4.3	94.6	6.67	1.3	< 0.1	2.34
742461	0.97	1.78	0.16	0.77	1.98	3.7	59	6	1900	2.73	10.1	2.4	146	1180	6.57	0.1	1.0	3.9	142	6.94	1.3	< 0.1	2.36
742462	0.83	2.00	0.38	0.30	2.03	3.1	40	5	1600	2.51	8.3	2.3	107	213	6.79	< 0.1	0.5	14.3	104	9.76	0.5	< 0.1	0.20
742463	0.65	1.92	0.37	0.25	1.98	2.8	36	5	1350	2.61	7.1	2.6	19.6	621	6.43	< 0.1	2.6	14.5	137	9.54	0.5	< 0.1	1.91
742464	0.83	1.52	0.29	1.39	1.86	3.5	55	6	1800	2.67	8.2	2.5	455	4580	5.97	< 0.1	0.6	8.3	69.6	7.16	0.5	< 0.1	1.77
742465	0.84	1.43	0.18	0.08	2.00	4.0	60	5	1550	2.71	8.5	2.5	31.6	172	5.90	< 0.1	1.0	4.7	102	7.56	0.5	< 0.1	2.00
742466	0.96	1.65	0.22	0.07	2.13	4.7	70	7	1750	3.10	9.2	3.3	39.5	152	6.39	< 0.1	0.7	5.8	105	8.74	1.2	< 0.1	2.10
742467	0.96	1.67	0.21	0.12	2.45	4.3	64	8	1780	3.02	10.2	3.5	37.3	116	5.78	< 0.1	0.8	5.4	127	8.44	0.5	< 0.1	2.06
742468	0.99	1.80	0.19	0.18	1.95	4.0	57	10	1860	3.02	10.1	3.6	93.0	149	5.77	< 0.1	0.5	5.0	130	7.02	0.7	< 0.1	2.18
742469	0.89	1.84	0.27	0.17	2.86	4.8	50	7	1810	2.91	7.9	3.1	53.6	99.1	6.33	< 0.1	1.4	9.3	236	7.83	9.3	< 0.1	2.02
742470	1.42	2.67	0.41	0.40	1.33	6.5	148	27	280	3.41	11.7	14.2	1750	237	7.37	< 0.1	28.9	19.2	40.3	10.0	3.2	< 0.1	58.7
742471	0.87	1.47	0.24	0.06	2.45	5.4	60	7	1490	3.10	7.6	3.6	28.1	120	6.90	< 0.1	1.0	7.2	123	8.81	4.7	< 0.1	2.24
742472	0.77	1.61	0.30	0.14	2.22	4.5	46	6	1560	2.73	7.0	2.9	39.1	161	6.13	< 0.1	0.9	9.8	123	7.55	4.7	< 0.1	2.28
742473	0.92	1.81	0.18	0.08	2.32	5.6	61	11	1580	2.79	8.5	3.1	31.6	128	6.99	< 0.1	1.7	5.2	158	7.05	12.2	0.1	1.77
742474	0.96	1.61	0.17	0.07	1.87	6.1	68	9	1520	3.10	8.9	3.6	44.7	318	7.10	0.1	1.6	4.6	107	7.38	9.8	< 0.1	2.49
742475	0.99	1.74	0.23	0.07	1.99	6.5	72	9	1560	3.30	9.4	3.4	35.0	160	7.75	< 0.1	1.4	6.8	109	7.64	9.1	< 0.1	2.09
742476	0.93	1.80	0.19	0.09	1.95	6.2	73	12	1540	3.21	9.4	3.1	32.3	131	7.70	0.1	1.6	6.0	163	7.14	10.4	0.1	2.10
742477	0.93	1.72	0.21	0.20	2.04	4.4	48	7	1730	2.62	7.6	3.2	47.3	109	5.53	< 0.1	1.1	7.3	152	7.00	9.4	< 0.1	2.66
742478	0.79	1.68	0.24	0.19	1.91	4.1	43	9	1610	2.63	7.1	3.0	47.7	91.6	5.61	< 0.1	1.1	8.5	153	6.41	9.4	< 0.1	1.78
742479	0.84	1.76	0.23	0.16	2.64	4.6	47	9	1710	2.76	7.3	3.9	52.4	102	6.03	< 0.1	1.2	8.3	214	7.31	8.6	< 0.1	1.97
742480D	0.86	1.78	0.26	0.17	2.76	4.6	48	7	1730	2.78	7.4	3.1	51.8	94.7	6.06	< 0.1	1.4	8.8	221	7.40	8.9	< 0.1	1.90
742481	0.93	1.91	0.23	0.15	2.25	5.2	54	8	1730	3.02	7.3	3.8	68.8	133	6.67	< 0.1	1.3	7.7	210	7.95	8.4	< 0.1	2.00
742482	0.82	1.50	0.26	0.09	2.13	5.5	57	8	1380	3.03	7.8	3.1	73.3	117	6.46	< 0.1	1.1	8.2	135	8.76	5.5	< 0.1	0.63
742483	0.86	1.45	0.23	0.06	2.41	5.3	59	7	1450	3.02	7.5	3.6	28.1	120	7.40	< 0.1	1.1	6.9	116	8.50	4.6	< 0.1	2.15
742484	0.82	1.71	0.32	0.15	2.34	4.7	49	6	1640	2.87	7.3	3.4	41.8	153	6.19	< 0.1	1.1	10.4	129	7.94	5.1	< 0.1	2.48
742485	0.78	1.50	0.21	0.17	2.09	4.1	44	7	1600	2.61	6.8	3.3	51.3	134	5.26	< 0.1	0.9	7.8	130	6.41	7.2	< 0.1	1.05
742486	0.86	1.63	0.20	0.13	1.95	5.3	62	8	1520	2.95	7.9	3.0	42.2	170	6.20	< 0.1	1.2	6.9	132	6.88	11.4	0.1	1.08
742487	0.90	1.72	0.17	0.07	1.98	5.2	61	9	1480	3.01	8.1	3.8	25.0	178	7.31	< 0.1	1.3	5.7	141	7.54	8.0	< 0.1	2.44
742488	0.89	1.60	0.20	0.04	1.96	5.9	66	8	1380	3.15	8.3	3.1	38.6	134	7.45	< 0.1	1.3	5.9	128	8.41	6.9	< 0.1	1.96
742489	0.86	1.34	0.17	0.04	2.24	4.6	59	5	1360	2.73	7.6	3.5	36.3	131	5.75	< 0.1	1.3	5.9	97.6	7.74	5.9	< 0.1	2.09
742490	0.58	1.35	0.12	0.07	0.88	5.2	59	51	413	2.22	10.9	33.5	22.6	31.7	4.75	< 0.1	4.4	5.1	45.4	8.22	8.6	0.2	2.67
742491	0.89	1.48	0.20	0.08	2.62	5.4	61	6	1560	2.79	7.6	3.2	23.3	141	5.96	< 0.1	1.2	7.2	121	8.50	5.4	< 0.1	1.77
742492	0.92	1.61	0.24	0.06	2.99	5.9	67	6	1720	3.10	9.5	4.1	20.5	172	6.67	< 0.1	1.2	8.3	125	9.28	4.3	< 0.1	1.95
742493	0.90	1.40	0.22	0.08	2.48	6.1	68	8	2060	3.13	9.1	3.3	35.2	186	6.30	< 0.1	1.5	7.6	93.3	9.18	4.5	< 0.1	1.92
742494	0.85	1.31	0.19	0.14	2.38	5.6	62	5	1650	3.01	8.5	3.6	19.6	236	6.01	< 0.1	1.0	7.4	152	8.77	5.0	< 0.1	1.77

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
742495	0.58	1.25	0.30	1.12	2.41	5.9	60	5	1730	3.03	8.3	3.3	29.4	421	5.37	< 0.1	3.4	13.9	121	8.60	4.0	< 0.1	3.63
742496	0.16	0.59	0.14	0.18	0.93	1.1	2	3	458	0.87	0.5	1.6	2.40	33.1	2.84	0.1	1.3	15.0	80.1	17.6	34.0	1.9	16.7
742497	0.09	0.64	0.16	0.06	0.57	1.3	2	4	316	0.98	0.3	1.0	1.64	22.9	3.05	0.1	1.1	15.8	58.9	17.7	35.0	2.1	11.1
742498	0.10	0.65	0.15	0.08	0.40	1.2	2	3	313	0.99	0.3	1.4	1.98	21.9	3.18	0.1	1.0	16.6	60.6	19.2	30.2	1.9	3.96
742499	0.21	0.76	0.14	0.37	1.08	1.2	2	2	687	1.11	0.4	0.8	1.47	106	3.51	0.1	0.9	15.0	117	17.2	28.8	0.8	2.49
742500D	0.22	0.76	0.14	0.38	1.12	1.2	2	3	706	1.12	0.5	1.2	2.12	107	3.57	0.1	0.9	15.1	121	17.4	30.2	1.0	2.47
718901	0.92	1.75	0.27	0.57	2.07	5.4	56	4	2180	2.91	8.1	3.2	159	1860	6.46	< 0.1	1.4	12.1	227	9.26	4.8	< 0.1	1.69
718902	0.78	1.65	0.33	1.10	2.46	4.6	44	7	1950	3.36	9.8	4.0	123	1610	5.60	< 0.1	2.4	11.4	210	10.8	7.0	< 0.1	3.00
718903	0.89	1.51	0.22	0.28	2.31	4.8	55	5	2160	2.91	8.0	3.0	76.8	395	5.80	< 0.1	1.2	7.5	130	8.52	7.6	< 0.1	2.04
718904	0.38	1.48	0.37	1.15	1.95	3.4	31	9	1260	3.75	9.5	3.0	17.4	358	4.78	< 0.1	14.3	16.6	102	11.4	12.3	< 0.1	3.71
718905	0.43	1.67	0.34	0.72	1.84	3.4	36	8	1320	3.39	7.5	2.8	12.4	197	5.80	< 0.1	21.0	15.6	105	9.58	11.0	0.2	5.54
718906	0.57	1.62	0.32	0.57	1.92	4.1	41	9	1760	3.45	8.4	3.1	43.9	2690	5.62	< 0.1	23.1	14.1	111	11.1	12.4	0.1	2.85
718907	0.51	1.72	0.46	0.60	1.65	3.8	36	6	1360	3.73	9.2	2.7	8.61	127	5.46	< 0.1	19.0	19.7	95.7	11.0	14.9	0.2	5.19
718908	0.47	1.62	0.39	0.92	1.40	3.4	34	8	1310	4.19	9.8	3.2	23.7	564	5.29	< 0.1	15.4	16.7	103	10.7	15.6	0.1	4.97
718909	0.42	1.55	0.43	0.92	1.18	3.2	32	5	1080	3.90	8.9	2.4	5.48	218	4.73	< 0.1	18.8	18.3	74.8	9.50	15.5	0.2	5.36
718910	1.42	2.67	0.41	0.36	1.36	9.0	150	27	298	3.44	11.4	15.1	1750	258	7.61	< 0.1	27.6	20.2	40.7	10.0	3.1	< 0.1	49.8
718911	0.68	1.32	0.25	1.56	0.74	1.6	20	11	1810	3.86	8.7	8.9	75.4	> 5000	4.22	< 0.1	11.3	10.4	82.9	5.83	2.0	< 0.1	3.00
718912	1.00	1.72	0.25	1.81	1.83	2.5	32	7	3570	3.76	9.2	4.2	111	> 5000	6.21	< 0.1	10.9	10.0	218	8.11	2.0	< 0.1	1.17
718913	4.09	4.07	0.06	0.04	4.78	23.7	218	104	3660	7.43	37.2	88.1	80.0	240	15.4	0.2	33.2	1.6	44.7	16.1	12.5	0.4	0.69
718914	0.83	1.61	0.31	1.90	0.98	2.5	29	10	2780	3.66	9.8	41.6	102	> 5000	5.38	< 0.1	9.6	13.6	113	8.07	2.0	< 0.1	7.12
718915	0.73	1.65	0.38	1.53	0.88	2.5	32	13	2230	3.11	8.8	3.5	118	> 5000	5.53	< 0.1	8.3	15.6	55.8	9.37	2.0	< 0.1	3.78
718916	0.46	0.99	0.45	0.07	0.68	2.4	43	11	658	2.36	4.0	2.9	2.99	55.6	5.71	< 0.1	< 0.1	42.2	93.3	9.44	3.7	2.2	0.70
718917	0.66	1.71	0.39	1.70	1.20	2.6	32	14	1800	3.22	8.5	4.0	91.2	> 5000	5.59	< 0.1	11.1	16.8	86.7	10.2	2.0	< 0.1	5.97
718918	0.73	1.63	0.32	1.39	1.46	2.3	28	11	1560	3.16	8.6	4.4	53.8	3070	5.23	< 0.1	7.0	13.1	73.6	8.93	2.7	0.1	9.44
718919	0.74	1.61	0.30	0.84	1.34	2.6	27	13	1460	3.20	16.3	4.2	31.3	1760	5.22	< 0.1	3.5	11.8	77.8	9.13	2.3	< 0.1	1.58
718920D	0.67	1.59	0.31	0.87	1.28	2.7	26	14	1370	2.81	15.1	2.8	27.5	1690	5.13	< 0.1	3.1	10.8	74.5	8.78	2.4	< 0.1	1.48
718921	0.66	1.73	0.46	1.85	1.01	2.2	25	10	1540	5.40	49.3	2.8	37.7	2450	5.36	< 0.1	5.4	17.0	49.0	9.07	2.8	< 0.1	10.0
718922	0.88	2.02	0.44	0.94	0.94	2.3	31	13	3230	3.18	7.4	4.0	90.2	> 5000	6.53	< 0.1	4.5	17.6	59.2	9.60	1.9	< 0.1	2.08
718923	0.94	2.24	0.49	1.54	1.43	2.5	33	16	3490	3.49	8.8	3.6	89.3	> 5000	6.97	< 0.1	16.7	20.5	138	10.9	1.9	< 0.1	4.98
718924	0.99	1.91	0.26	0.65	1.34	3.1	42	13	2970	3.21	7.2	4.4	54.3	> 5000	6.96	< 0.1	3.1	10.4	140	10.4	1.7	< 0.1	1.63
718925	0.95	1.81	0.20	0.67	1.45	3.5	43	14	2300	2.65	7.2	3.2	46.0	2940	5.99	< 0.1	1.7	6.9	92.3	10.3	1.7	< 0.1	0.76
718926	0.79	1.73	0.26	0.22	1.46	3.2	35	12	2010	2.47	6.6	3.7	50.3	1730	5.61	< 0.1	1.0	9.3	71.6	11.0	2.1	< 0.1	1.84
718927	0.83	1.84	0.34	0.83	1.20	2.9	37	13	1980	3.04	8.0	3.2	56.5	> 5000	6.07	< 0.1	3.6	14.2	82.8	9.28	2.2	< 0.1	1.72
718928	0.86	1.80	0.25	0.50	1.46	3.2	37	15	1560	2.46	8.3	3.7	35.3	2010	5.96	< 0.1	2.1	8.9	135	9.64	2.1	< 0.1	2.09
718929	0.59	1.68	0.47	0.72	1.05	2.2	29	13	1060	2.55	7.9	4.3	51.6	2660	5.05	< 0.1	2.9	19.1	71.5	8.61	1.4	< 0.1	19.2
718930	0.24	1.09	0.56	0.96	0.33	2.4	63	22	76	3.16	12.8	10.2	4710	94.1	3.19	< 0.1	37.4	17.4	81.8	5.23	1.4	< 0.1	235
718931	0.72	1.62	0.29	0.64	1.22	2.2	30	11	1540	2.59	9.0	3.4	40.7	4630	5.11	< 0.1	1.3	11.9	85.0	8.17	1.9	< 0.1	4.06
718932	0.82	1.77	0.31	1.20	1.35	3.0	35	13	1880	2.96	8.6	3.7	62.8	2110	5.95	< 0.1	2.8	13.6	93.7	9.34	2.0	< 0.1	9.68
718933	0.88	1.79	0.35	1.09	1.29	2.7	34	10	2550	3.28	8.4	3.3	103	> 5000	5.86	< 0.1	3.8	14.2	74.8	10.5	1.1	< 0.1	12.4
718934	0.83	1.70	0.34	0.62	1.00	2.4	36	9	2900	2.94	6.9	2.8	76.4	> 5000	5.63	< 0.1	1.0	14.0	72.6	8.82	0.9	< 0.1	1.29
718935	0.81	1.75	0.34	0.92	1.26	2.8	41	10	2410	2.90	7.1	3.7	84.8	> 5000	6.05	< 0.1	1.2	13.4	98.1	9.63	1.5	< 0.1	1.59
718936	0.73	1.79	0.38	0.97	1.17	2.9	38	9	2160	2.74	7.0	3.2	135	> 5000	5.88	< 0.1	1.1	14.1	114	8.85	1.7	< 0.1	1.80

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
718937	0.77	1.68	0.34	1.67	1.01	2.9	38	11	2110	3.19	9.3	3.2	197	> 5000	5.57	< 0.1	3.3	12.5	58.8	10.3	2.3	< 0.1	2.43
718938	0.67	1.56	0.33	0.73	1.58	3.1	35	8	1370	2.85	9.6	3.7	55.9	760	5.40	< 0.1	4.0	11.5	109	11.0	1.5	< 0.1	1.74
718939	0.81	1.64	0.30	0.48	1.69	3.3	37	10	1820	2.81	8.2	3.5	84.1	1310	5.65	< 0.1	3.2	10.8	128	11.4	2.0	< 0.1	1.52
718940D	0.71	1.57	0.29	0.47	1.58	3.3	34	8	1710	2.45	7.8	4.3	66.5	1360	5.19	< 0.1	0.9	9.3	117	10.7	1.9	< 0.1	1.46
718941	0.81	1.75	0.28	1.27	1.65	3.5	38	9	2360	2.68	7.1	3.1	62.2	2720	5.87	< 0.1	0.9	9.3	103	11.0	2.0	< 0.1	1.83
718942	0.88	1.78	0.33	1.45	1.51	3.4	46	13	2240	3.31	8.5	3.5	87.4	4040	6.21	< 0.1	1.2	11.9	81.0	10.7	2.1	< 0.1	2.66
718943	0.91	1.98	0.35	1.38	1.61	3.8	46	9	1830	3.42	13.9	3.4	195	4930	6.97	< 0.1	1.8	13.2	115	11.0	2.8	< 0.1	2.95
718944	1.27	2.54	0.34	1.34	1.28	2.9	39	8	3720	5.07	20.2	2.4	134	> 5000	7.47	< 0.1	11.1	13.4	78.3	8.65	2.6	< 0.1	10.5
718945	0.96	2.03	0.39	1.34	1.13	2.1	25	7	2970	3.96	13.6	2.3	110	> 5000	5.86	< 0.1	14.2	15.7	75.3	8.42	1.7	< 0.1	6.75
718946	1.21	2.60	0.38	0.18	2.42	4.7	65	4	1730	4.01	8.3	4.2	258	136	5.23	< 0.1	1.6	12.2	213	11.2	0.4	< 0.1	1.42
718947	1.32	2.62	0.27	0.57	2.38	5.8	74	8	1620	3.78	9.3	6.7	112	98.4	6.75	< 0.1	2.1	8.4	202	9.69	0.7	< 0.1	0.61
718948	1.38	2.77	0.34	0.62	1.99	6.0	72	5	1690	4.28	7.6	4.6	511	143	7.88	< 0.1	2.2	11.8	181	10.0	11.0	0.1	3.08
718949	0.72	1.64	0.41	0.55	2.15	3.7	37	7	1290	2.97	12.0	2.8	115	74.0	5.41	< 0.1	1.1	11.8	116	12.7	0.8	< 0.1	3.59
718950	1.54	2.87	0.44	0.39	1.44	9.7	159	29	307	3.70	12.0	16.2	1860	259	8.02	< 0.1	29.4	20.8	42.4	10.4	2.7	< 0.1	52.2
741401	0.75	1.63	0.37	0.27	1.91	3.5	37	9	1140	2.86	13.4	3.2	102	71.3	5.75	< 0.1	1.3	13.0	94.0	11.9	1.7	< 0.1	1.26
741402	0.40	1.22	0.39	0.15	2.63	2.5	29	6	1160	2.23	5.8	2.9	26.0	91.2	3.33	< 0.1	1.2	13.8	163	12.6	0.9	< 0.1	1.21
741403	0.55	1.36	0.41	0.32	1.82	2.7	28	6	1050	2.39	7.6	3.0	34.0	89.6	4.30	< 0.1	1.4	14.9	78.3	10.5	1.3	< 0.1	1.06
741404	0.63	1.32	0.33	0.12	2.00	3.2	46	7	1150	2.73	6.4	3.2	22.6	207	5.07	< 0.1	0.9	11.9	76.1	13.0	1.4	< 0.1	1.17
741405	0.70	1.50	0.37	0.20	1.63	2.9	37	10	1170	2.61	7.1	3.2	39.1	446	5.58	< 0.1	1.7	13.6	91.0	12.6	1.6	< 0.1	2.07
741406	0.70	1.42	0.32	0.20	1.73	2.8	37	9	1340	2.51	7.1	3.0	7.20	564	5.48	< 0.1	1.3	11.9	78.0	12.7	1.7	< 0.1	1.65
741407	0.80	1.54	0.33	0.49	1.46	2.9	40	12	1640	2.74	7.1	3.1	19.1	2240	5.66	< 0.1	1.0	12.9	71.1	12.1	2.0	< 0.1	1.57
741408	0.77	1.54	0.37	0.55	1.35	2.1	28	7	1920	2.59	7.1	3.3	56.0	4690	5.31	< 0.1	1.6	13.7	85.3	9.94	1.4	< 0.1	1.52
741409	0.73	1.48	0.35	0.38	1.81	2.3	26	6	1820	2.44	6.5	3.5	26.4	2010	5.00	< 0.1	1.1	13.0	103	11.5	1.3	< 0.1	3.52
741410D	0.84	1.71	0.42	0.43	2.07	2.6	30	9	2060	2.79	7.3	7.2	33.8	2320	5.78	< 0.1	1.1	15.0	126	12.9	1.4	< 0.1	2.26
741411	0.64	1.53	0.45	0.46	1.96	2.4	30	6	1200	2.56	7.1	3.0	67.4	745	4.92	< 0.1	0.9	16.0	97.2	10.8	1.0	< 0.1	1.21
741412	0.63	1.41	0.38	0.36	2.09	2.2	25	7	1220	2.33	7.5	3.0	14.1	114	4.65	< 0.1	2.3	13.6	125	11.2	1.0	< 0.1	1.06

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742369	0.196	0.04	0.43	0.46	0.02	1.26	907	16.6	29.1	3.89	3.5	15.3	2.7	0.5	0.8	3.2	0.4	2.8	0.5	1.6	0.2	1.3	0.2
742370	0.422	0.07	1.06	0.72	0.12	1.13	74.7	7.4	15.3	0.55	2.0	9.95	2.0	3.3	0.5	2.3	0.3	2.1	0.4	1.1	0.2	0.9	0.1
742371	0.555	0.08	0.25	0.33	0.08	1.45	81.4	20.4	36.0	0.62	4.2	18.7	3.3	0.4	1.0	3.2	0.4	2.5	0.4	1.3	0.2	1.2	0.2
742372	0.704	< 0.02	0.35	0.47	1.36	0.87	8.2	10.5	21.5	0.71	2.8	12.9	2.1	1.1	0.4	1.8	0.2	1.2	0.2	0.6	< 0.1	0.5	< 0.1
742373	0.181	0.04	0.32	0.33	0.05	1.48	221	14.6	26.3	3.80	3.2	14.2	2.5	0.4	0.8	2.8	0.4	2.4	0.4	1.3	0.2	1.2	0.2
742374	0.098	< 0.02	0.16	0.42	0.81	0.87	13.8	12.5	24.7	0.06	3.1	14.5	2.7	1.1	0.8	2.8	0.4	2.1	0.4	1.1	0.1	0.8	0.1
742375	0.066	< 0.02	0.19	0.45	0.80	0.76	10.3	10.9	22.1	0.04	2.8	13.1	2.4	1.3	0.7	2.4	0.3	1.6	0.3	0.8	< 0.1	0.6	< 0.1
742376	0.743	< 0.02	0.30	0.75	2.25	1.04	9.6	7.9	17.8	0.13	2.4	11.7	2.3	2.1	0.6	2.3	0.3	1.6	0.3	0.8	0.1	0.6	< 0.1
742377	0.173	< 0.02	0.17	0.58	2.50	0.97	11.6	9.6	20.8	0.05	2.8	13.5	2.6	2.0	0.6	2.5	0.3	1.7	0.3	0.8	0.1	0.6	< 0.1
742378	0.112	< 0.02	0.09	0.67	1.42	1.31	9.4	6.3	13.5	0.04	1.8	9.07	1.8	2.2	0.5	2.0	0.2	1.4	0.2	0.7	< 0.1	0.6	< 0.1
742379	0.165	< 0.02	0.13	0.76	1.41	1.20	7.9	9.0	19.5	0.12	2.6	12.9	2.5	2.1	0.7	2.4	0.3	1.6	0.3	0.7	0.1	0.6	< 0.1
742380D	0.208	< 0.02	0.30	0.86	1.59	1.30	10.3	9.7	20.8	0.14	2.7	13.5	2.7	2.0	0.7	2.6	0.3	1.6	0.3	0.8	0.1	0.6	< 0.1
742381	0.075	0.03	0.25	0.39	1.43	1.24	8.5	8.9	19.5	0.10	2.6	13.0	2.6	1.5	0.7	2.6	0.3	1.8	0.3	0.8	0.1	0.6	< 0.1
742382	0.048	< 0.02	0.15	0.65	3.26	1.22	8.4	3.5	7.97	0.06	1.1	5.63	1.3	1.9	0.5	1.7	0.2	1.3	0.2	0.6	< 0.1	0.5	< 0.1
742383	0.099	< 0.02	0.22	0.58	2.13	1.45	12.0	3.0	7.11	0.07	1.0	5.57	1.5	2.1	0.5	2.1	0.3	1.6	0.3	0.8	0.1	0.6	< 0.1
742384	0.027	< 0.02	0.24	0.46	1.21	1.25	12.0	2.1	5.23	0.06	0.8	4.30	1.3	1.4	0.6	2.0	0.3	1.5	0.2	0.7	< 0.1	0.5	< 0.1
742385	0.007	0.03	0.17	0.46	1.12	1.41	11.4	3.8	8.87	0.18	1.3	7.07	1.9	1.3	0.7	2.3	0.3	1.6	0.2	0.7	< 0.1	0.5	< 0.1
742386	< 0.002	0.03	0.49	0.39	1.49	1.24	12.3	3.5	8.39	0.18	1.2	6.34	1.6	1.5	0.6	1.9	0.2	1.5	0.2	0.7	< 0.1	0.5	< 0.1
742387	0.012	0.03	0.61	0.40	1.19	1.39	10.8	3.5	8.15	0.06	1.2	6.63	1.7	1.2	0.6	2.2	0.3	1.7	0.3	0.8	< 0.1	0.6	< 0.1
742388	0.023	0.03	0.74	0.54	1.89	1.12	15.1	5.4	11.6	0.07	1.6	7.82	1.7	1.0	0.5	1.8	0.2	1.3	0.2	0.7	< 0.1	0.5	< 0.1
742389	0.110	0.13	0.47	0.43	2.36	1.11	15.6	9.1	18.0	6.63	2.3	11.1	2.3	1.1	0.7	2.5	0.3	1.7	0.3	0.8	< 0.1	0.6	< 0.1
742390	0.400	0.06	1.06	0.70	0.13	1.07	70.3	7.0	14.6	0.48	1.9	9.51	1.9	2.9	0.5	2.1	0.3	2.0	0.4	1.1	0.1	0.9	0.1
742391	0.109	0.03	0.77	0.53	1.72	1.11	18.3	5.2	11.3	0.14	1.6	8.06	1.9	0.8	0.5	1.9	0.2	1.3	0.2	0.6	< 0.1	0.4	< 0.1
742392	0.021	< 0.02	0.24	0.54	1.37	0.92	17.2	3.7	9.06	0.09	1.3	6.78	1.6	0.9	0.4	1.7	0.2	1.1	0.2	0.5	< 0.1	0.4	< 0.1
742393	< 0.002	< 0.02	0.28	0.50	0.93	0.97	12.3	0.9	2.51	0.11	0.4	2.40	0.9	0.8	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1
742394	0.041	0.02	0.26	0.65	2.11	0.99	11.4	0.6	1.65	0.09	0.3	1.80	0.8	1.0	0.3	1.3	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1
742395	0.070	< 0.02	0.24	0.57	2.37	0.98	13.7	< 0.5	1.20	0.10	0.2	1.39	0.7	1.0	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1
742396	0.040	0.02	0.24	0.44	1.49	0.95	14.9	< 0.5	1.28	0.08	0.2	1.61	0.8	0.8	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1
742397	0.129	< 0.02	0.29	0.42	1.04	1.15	14.1	0.7	1.64	0.05	0.3	1.67	0.8	1.1	0.3	1.4	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1
742398	0.055	0.03	0.28	0.55	1.68	0.85	17.2	1.4	3.44	0.20	0.5	2.97	1.0	1.2	0.4	1.4	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1
742399	0.027	< 0.02	0.34	0.58	1.07	0.99	16.0	2.0	4.56	0.33	0.7	3.60	1.2	0.9	0.4	1.6	0.2	1.2	0.2	0.6	< 0.1	0.5	< 0.1
742400D	0.083	< 0.02	0.98	0.59	1.00	0.93	17.4	2.0	4.43	0.36	0.6	3.45	1.1	0.8	0.4	1.6	0.2	1.2	0.2	0.6	< 0.1	0.5	< 0.1
742401	0.018	< 0.02	0.06	0.46	0.81	0.62	8.4	0.8	1.67	0.35	0.2	1.24	0.5	1.1	0.2	1.0	0.1	0.9	0.2	0.5	< 0.1	0.4	< 0.1
742402	< 0.002	< 0.02	< 0.05	0.53	1.01	0.28	6.9	0.7	1.60	0.02	0.2	1.09	0.3	1.0	0.2	0.7	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1
742403	< 0.002	< 0.02	0.17	0.41	0.78	0.67	11.3	1.3	2.77	0.04	0.4	1.97	0.8	0.9	0.4	1.9	0.3	1.3	0.2	0.5	< 0.1	0.4	< 0.1
742404	0.014	< 0.02	0.10	0.42	0.85	0.74	11.8	1.0	2.29	0.03	0.3	1.67	0.7	1.1	0.4	1.8	0.2	1.2	0.2	0.5	< 0.1	0.4	< 0.1
742405	0.005	< 0.02	< 0.05	0.37	0.78	0.80	13.8	1.2	2.58	0.03	0.4	1.92	0.7	1.1	0.3	1.6	0.2	1.2	0.2	0.5	< 0.1	0.4	< 0.1
742406	< 0.002	< 0.02	< 0.05	0.26	0.41	0.19	14.4	0.9	1.82	0.05	0.2	1.19	0.3	0.5	0.1	0.6	0.1	0.7	0.1	0.3	< 0.1	0.3	< 0.1
742407	0.033	< 0.02	< 0.05	0.57	1.29	0.56	14.3	0.6	1.45	0.03	0.2	1.16	0.5	1.2	0.2	1.1	0.2	0.9	0.1	0.4	< 0.1	0.3	< 0.1
742408	0.655	0.02	0.40	0.39	1.27	1.31	16.4	5.9	12.5	0.21	1.7	8.23	1.8	0.7	0.6	2.2	0.3	1.5	0.2	0.6	< 0.1	0.5	< 0.1
742409	0.404	0.03	0.39	0.60	0.92	0.93	16.7	11.2	22.4	0.12	2.9	13.8	2.8	1.0	0.8	3.0	0.4	2.2	0.4	1.0	0.1	0.8	0.1
742410	0.776	0.07	3.33	4.18	0.22	1.49	36.8	8.6	16.6	1.37	2.3	11.4	2.4	3.6	0.8	2.9	0.4	2.6	0.5	1.4	0.2	1.2	0.2

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742411	0.195	0.03	0.56	0.32	0.06	1.31	225	14.5	26.2	1.20	3.1	13.9	2.5	0.4	0.7	2.7	0.4	2.4	0.4	1.3	0.2	1.2	0.2
742412	0.255	0.04	0.47	0.29	0.17	1.45	17.6	13.1	25.4	0.18	3.2	15.1	2.9	0.3	0.8	2.9	0.4	2.5	0.4	1.3	0.2	1.0	0.1
742413	0.146	0.03	0.35	0.32	0.03	1.15	17.5	13.0	26.1	3.96	3.3	15.6	3.1	0.6	0.8	3.1	0.4	2.5	0.4	1.2	0.2	1.0	0.1
742414	0.234	0.02	0.44	0.23	0.26	1.24	22.9	14.3	27.9	0.23	3.5	16.9	3.3	0.4	1.0	3.4	0.4	2.8	0.5	1.3	0.2	1.0	0.1
742415	0.172	< 0.02	0.64	0.18	0.13	1.51	41.5	15.5	30.7	0.05	3.9	18.2	3.4	0.3	1.0	3.4	0.5	2.7	0.5	1.4	0.2	1.0	0.1
742416	0.314	0.03	0.41	0.19	0.38	1.48	24.0	15.2	29.9	0.02	3.8	17.9	3.3	0.4	1.0	3.4	0.4	2.5	0.4	1.2	0.2	0.9	0.1
742417	0.707	0.05	0.32	0.69	0.64	2.23	13.2	12.4	26.7	2.30	3.5	16.8	3.1	0.8	0.9	3.3	0.4	2.6	0.4	1.2	0.2	0.9	0.1
742418	0.455	0.05	0.24	0.51	0.26	1.94	16.3	12.6	23.9	0.45	2.9	13.5	2.5	0.7	0.7	2.6	0.3	2.1	0.4	1.2	0.2	1.0	0.1
742419	0.214	< 0.02	0.07	0.11	0.03	0.99	756	12.9	22.0	0.57	2.5	10.8	1.8	0.2	0.5	1.9	0.3	1.6	0.3	0.9	0.1	0.8	< 0.1
742420D	0.125	< 0.02	0.13	0.11	0.03	0.93	787	12.2	20.9	0.55	2.4	10.4	1.7	0.3	0.5	1.8	0.2	1.6	0.3	0.9	0.1	0.7	< 0.1
742421	0.295	0.02	0.33	0.17	0.17	0.82	321	13.0	22.5	0.42	2.5	10.9	1.8	0.2	0.5	1.8	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742422	0.284	0.03	0.50	0.26	0.17	1.07	145	13.5	23.4	0.43	2.7	11.8	2.0	0.3	0.6	2.0	0.3	1.7	0.3	0.9	0.1	0.8	0.1
742423	0.766	0.04	0.24	0.56	0.10	0.99	145	14.0	25.0	15.2	2.9	12.5	2.2	0.5	0.6	2.2	0.3	1.8	0.3	1.0	0.1	0.8	0.1
742424	0.164	0.05	0.34	0.12	0.03	0.64	978	15.0	29.5	0.63	4.1	17.1	3.6	0.3	1.0	3.9	0.5	3.0	0.5	1.4	0.2	1.1	0.1
742425	0.095	0.03	0.50	0.44	< 0.02	1.17	360	11.9	23.8	0.65	3.3	13.7	2.9	< 0.1	0.8	2.9	0.4	2.3	0.4	1.3	0.2	1.2	0.2
742426	0.112	0.02	0.40	0.42	< 0.02	0.78	542	13.0	25.4	1.14	3.5	14.0	3.0	0.2	0.8	3.0	0.4	2.5	0.4	1.4	0.2	1.2	0.2
742427	0.094	0.02	0.38	0.38	0.07	0.44	881	13.1	25.2	0.79	3.3	12.9	2.6	< 0.1	0.7	2.7	0.3	2.1	0.4	1.2	0.2	1.0	0.1
742428	0.067	0.02	0.37	0.52	0.04	0.48	690	11.9	23.6	0.64	3.2	12.8	2.8	< 0.1	0.7	2.8	0.4	2.2	0.4	1.3	0.2	1.2	0.1
742429	0.231	0.04	0.43	0.42	0.22	0.51	53.0	10.7	21.4	1.72	2.9	11.2	2.3	0.2	0.6	2.4	0.3	2.0	0.4	1.2	0.2	1.0	0.1
742430	0.463	0.07	1.05	0.66	0.14	1.06	58.9	7.2	15.4	0.53	2.2	9.32	2.2	3.1	0.5	2.5	0.3	2.0	0.4	1.1	0.1	0.9	0.1
742431	0.223	0.04	0.32	0.50	0.13	0.47	104	10.2	20.2	0.63	2.7	10.7	2.3	0.3	0.6	2.3	0.3	1.9	0.3	1.1	0.1	0.9	0.1
742432	0.090	0.02	0.35	0.72	0.07	0.49	409	12.6	22.4	4.50	2.8	11.8	2.6	0.3	0.7	2.5	0.3	2.2	0.4	1.2	0.2	1.1	0.1
742433	0.282	0.03	0.77	0.74	0.23	0.57	174	11.8	21.0	4.32	2.7	11.4	2.6	0.5	0.7	2.5	0.3	2.3	0.4	1.3	0.2	1.1	0.2
742434	0.183	0.04	0.41	0.69	0.18	0.45	80.0	11.7	20.7	1.09	2.7	10.9	2.4	0.3	0.7	2.3	0.3	2.1	0.4	1.2	0.2	1.0	0.1
742435	0.103	0.02	0.49	0.63	0.04	0.35	251	13.3	24.0	2.13	3.1	12.7	2.9	0.5	0.8	2.7	0.4	2.5	0.5	1.4	0.2	1.2	0.2
742436	0.128	0.03	0.64	0.56	0.05	0.45	458	13.6	23.8	0.09	3.0	12.2	2.7	0.4	0.7	2.6	0.4	2.4	0.4	1.4	0.2	1.2	0.2
742437	1.87	0.06	0.52	0.60	2.17	0.50	28.2	11.6	21.3	10.6	2.7	11.1	2.4	0.5	0.6	2.2	0.3	2.1	0.4	1.2	0.2	1.0	0.1
742438	0.560	0.04	0.50	0.67	0.84	0.53	14.9	11.2	20.8	7.76	2.7	11.0	2.4	0.5	0.7	2.3	0.3	2.1	0.4	1.2	0.2	1.1	0.1
742439	0.215	0.03	0.47	0.61	0.29	0.47	166	10.3	18.1	0.69	2.3	9.50	2.2	0.3	0.6	2.0	0.3	1.9	0.3	1.1	0.2	0.9	0.1
742440D	0.148	0.03	0.51	0.64	0.36	0.47	121	10.5	18.4	0.68	2.3	9.50	2.1	0.4	0.6	2.0	0.3	1.9	0.3	1.1	0.2	0.9	0.1
742441	0.438	0.05	0.46	0.68	0.97	0.40	21.8	10.0	18.3	13.5	2.4	9.76	2.2	0.5	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742442	0.404	0.04	0.65	0.79	0.50	0.49	21.9	11.4	21.3	5.43	2.8	11.4	2.7	0.4	0.7	2.6	0.4	2.3	0.4	1.3	0.2	1.1	0.1
742443	0.146	0.02	0.45	0.63	0.08	0.45	265	11.3	19.8	0.07	2.5	10.4	2.3	0.3	0.6	2.1	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742444	0.142	0.03	0.74	0.83	0.06	0.34	478	12.0	19.3	0.07	2.2	8.68	1.8	0.2	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742445	0.217	< 0.02	0.91	0.69	0.07	0.34	167	9.7	16.0	0.79	1.9	7.49	1.6	0.3	0.4	1.5	0.2	1.3	0.2	0.8	0.1	0.7	0.1
742446	0.131	< 0.02	0.57	0.57	0.13	0.54	127	9.8	16.2	1.12	1.9	7.37	1.5	0.2	0.4	1.4	0.2	1.3	0.2	0.8	0.1	0.7	0.1
742447	0.129	0.03	0.87	0.04	< 0.02	0.47	36.7	60.2	94.5	0.10	9.8	31.3	4.8	0.5	0.4	3.6	0.4	2.7	0.5	1.4	0.2	1.1	0.1
742448	0.157	< 0.02	0.51	0.52	0.11	0.46	121	9.8	15.7	1.63	1.9	7.36	1.6	0.1	0.4	1.6	0.2	1.4	0.3	0.8	0.1	0.7	0.1
742449	0.146	0.02	0.62	0.59	0.06	0.50	149	10.1	16.3	1.19	1.9	7.50	1.6	0.2	0.4	1.5	0.2	1.4	0.2	0.8	0.1	0.7	0.1
742450	0.789	0.08	3.63	5.05	0.19	1.70	51.5	9.5	17.5	1.45	2.5	11.2	2.9	4.2	0.8	3.1	0.4	2.9	0.5	1.5	0.2	1.3	0.2
742451	0.204	0.02	0.45	0.51	0.10	0.38	255	9.4	15.2	0.05	1.8	6.83	1.4	0.2	0.4	1.3	0.2	1.2	0.2	0.7	0.1	0.7	< 0.1
742452	0.120	< 0.02	0.60	0.65	0.03	0.22	267	10.3	16.6	1.41	2.0	7.73	1.6	0.1	0.5	1.5	0.2	1.4	0.2	0.8	0.1	0.7	0.1

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742453	0.079	< 0.02	0.53	0.51	0.04	0.22	162	10.0	16.4	0.04	2.0	7.68	1.7	0.3	0.4	1.5	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742454	0.103	< 0.02	0.44	0.28	0.04	0.16	212	10.7	17.5	0.25	2.1	8.08	1.7	0.3	0.4	1.5	0.2	1.3	0.2	0.7	0.1	0.7	< 0.1
742455	0.172	< 0.02	0.42	0.37	0.17	0.17	545	10.6	17.5	3.13	2.1	8.15	1.6	0.3	0.4	1.6	0.2	1.4	0.2	0.8	0.1	0.7	< 0.1
742456	0.313	0.03	0.52	0.68	0.39	0.28	125	10.1	16.5	6.70	1.9	7.42	1.6	0.3	0.4	1.5	0.2	1.3	0.2	0.8	0.1	0.7	0.1
742457	0.197	0.02	0.71	0.44	0.11	0.18	183	10.6	17.5	5.93	2.1	8.44	1.8	0.3	0.5	1.7	0.2	1.6	0.3	0.9	0.1	0.7	0.1
742458	1.26	0.02	0.70	0.42	0.83	0.18	156	9.6	15.6	20.6	1.8	7.16	1.5	0.5	0.4	1.4	0.2	1.3	0.2	0.8	0.1	0.7	0.1
742459	1.49	0.03	0.81	0.37	0.56	0.17	38.7	9.8	18.8	20.6	2.2	8.73	1.7	0.3	0.4	1.6	0.2	1.3	0.3	0.8	0.1	0.9	0.1
742460D	1.68	0.03	1.48	0.36	0.57	0.16	274	9.5	18.0	21.6	2.1	8.45	1.6	0.4	0.4	1.6	0.2	1.3	0.3	0.8	0.1	0.8	0.1
742461	0.982	0.02	0.65	0.63	0.38	0.15	78.0	10.2	19.1	7.39	2.2	8.98	1.7	0.3	0.5	1.6	0.2	1.3	0.3	0.8	0.1	0.8	0.1
742462	0.457	0.03	1.30	0.34	0.10	0.39	70.9	11.3	23.3	0.81	2.9	12.1	2.4	0.3	0.6	2.3	0.3	1.9	0.4	1.2	0.2	1.2	0.2
742463	0.166	0.03	0.53	0.55	0.14	0.35	21.3	10.5	22.0	4.36	2.8	11.3	2.3	0.3	0.6	2.2	0.3	1.9	0.4	1.1	0.2	1.1	0.2
742464	1.77	0.04	0.29	0.27	0.85	0.29	35.1	10.7	20.4	35.6	2.4	9.39	1.7	0.5	0.5	1.7	0.2	1.3	0.3	0.8	0.1	0.8	0.1
742465	0.156	< 0.02	0.18	0.24	0.07	0.22	302	10.8	20.5	0.48	2.4	9.55	1.9	0.2	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.9	0.1
742466	0.123	0.02	0.43	0.40	0.05	0.31	275	11.6	22.1	0.10	2.6	10.4	2.0	0.2	0.5	1.9	0.3	1.6	0.3	1.0	0.1	1.0	0.2
742467	0.304	0.02	0.74	0.50	0.05	0.28	431	11.3	21.7	0.04	2.5	10.2	2.0	0.2	0.5	1.9	0.3	1.6	0.3	1.0	0.1	0.9	0.1
742468	0.022	0.03	0.37	0.56	0.06	0.25	398	10.5	19.7	0.04	2.3	8.95	1.7	0.2	0.5	1.6	0.2	1.4	0.3	0.9	0.1	0.8	0.1
742469	0.064	0.03	0.34	0.58	0.06	0.44	96.2	11.7	19.0	0.04	2.2	8.66	1.8	0.2	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742470	0.728	0.07	1.11	0.60	0.08	1.08	53.8	7.0	15.8	0.54	2.1	9.41	2.1	3.3	0.5	2.2	0.3	2.0	0.4	1.1	0.2	1.0	0.1
742471	0.086	< 0.02	0.31	0.38	< 0.02	0.36	873	13.7	22.1	0.07	2.7	10.4	2.2	0.3	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742472	0.145	0.02	0.35	0.42	0.04	0.53	416	13.1	20.7	0.13	2.4	9.17	1.9	0.3	0.5	1.7	0.2	1.5	0.3	0.8	0.1	0.7	0.1
742473	0.139	< 0.02	0.50	0.57	0.03	0.21	228	10.8	17.3	0.19	2.0	7.88	1.7	0.4	0.4	1.6	0.2	1.4	0.3	0.8	0.1	0.7	0.1
742474	0.167	< 0.02	0.63	0.49	0.03	0.19	208	11.1	18.1	1.75	2.2	8.69	1.8	0.3	0.5	1.7	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742475	0.081	< 0.02	0.54	0.52	0.03	0.22	277	11.3	18.9	0.12	2.3	8.91	1.9	0.4	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742476	0.093	< 0.02	0.73	0.54	0.04	0.24	230	11.5	18.6	0.02	2.2	8.61	1.8	0.2	0.5	1.6	0.2	1.5	0.3	0.8	0.1	0.8	0.1
742477	0.112	0.02	0.37	0.47	0.09	0.39	440	10.7	18.9	0.02	2.3	8.41	1.6	< 0.1	0.4	1.7	0.2	1.4	0.2	0.7	0.1	0.7	< 0.1
742478	0.104	0.03	0.81	0.55	0.08	0.43	338	10.3	16.5	0.02	1.9	7.28	1.5	0.2	0.4	1.4	0.2	1.2	0.2	0.7	0.1	0.7	< 0.1
742479	0.127	0.03	1.03	0.57	0.06	0.43	126	11.1	18.0	0.03	2.1	8.11	1.8	0.1	0.4	1.6	0.2	1.4	0.3	0.8	0.1	0.8	0.1
742480D	0.096	0.03	0.39	0.57	0.06	0.42	94.8	11.3	18.3	0.02	2.1	8.23	1.7	0.3	0.5	1.6	0.2	1.5	0.3	0.9	0.1	0.7	0.1
742481	0.127	0.03	0.38	0.65	0.04	0.38	332	11.6	18.7	0.05	2.2	8.68	1.8	0.2	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742482	0.087	0.02	0.41	0.44	0.04	0.41	405	12.3	20.7	0.13	2.5	9.95	2.1	0.3	0.5	1.9	0.3	1.7	0.3	1.0	0.1	0.9	0.1
742483	0.143	< 0.02	0.43	0.38	< 0.02	0.36	841	13.4	21.9	0.05	2.6	10.1	2.2	0.5	0.5	2.0	0.3	1.7	0.3	1.0	0.1	0.8	0.1
742484	0.151	0.02	0.67	0.48	0.06	0.57	463	14.2	22.4	0.12	2.6	10.0	2.1	0.2	0.5	1.9	0.3	1.6	0.3	0.9	0.1	0.8	0.1
742485	0.202	0.03	2.59	0.49	0.12	0.51	257	9.8	16.0	0.14	1.9	7.33	1.6	0.2	0.4	1.4	0.2	1.3	0.2	0.7	0.1	0.7	< 0.1
742486	0.180	0.03	0.46	0.47	0.06	0.34	224	10.1	16.4	0.43	1.9	7.52	1.6	0.3	0.4	1.4	0.2	1.3	0.3	0.8	0.1	0.7	0.1
742487	0.094	< 0.02	0.51	0.49	0.02	0.31	195	11.3	18.2	0.39	2.2	8.36	1.8	0.2	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1
742488	0.126	< 0.02	0.52	0.47	< 0.02	0.33	167	12.7	20.6	0.11	2.5	9.60	2.0	0.4	0.5	1.9	0.3	1.7	0.3	0.9	0.1	0.9	0.1
742489	0.102	< 0.02	0.36	0.35	< 0.02	0.36	374	12.4	20.2	0.07	2.4	9.24	2.0	0.1	0.5	1.8	0.2	1.6	0.3	0.9	0.1	0.8	0.1
742490	0.372	0.02	0.64	0.42	0.04	0.38	139	7.1	13.1	0.12	1.8	8.21	2.1	0.5	0.4	1.9	0.3	1.8	0.3	0.9	0.1	0.8	0.1
742491	0.195	0.02	0.40	0.48	0.02	0.47	541	12.7	20.5	0.08	2.4	9.66	2.2	0.3	0.5	1.9	0.3	1.7	0.3	0.9	0.1	0.9	0.1
742492	0.146	0.02	0.41	0.50	< 0.02	0.64	372	13.9	22.4	0.16	2.7	10.8	2.5	0.3	0.6	2.1	0.3	1.9	0.3	1.0	0.1	1.0	0.1
742493	0.133	0.02	0.63	0.48	< 0.02	0.58	196	14.4	23.4	0.66	2.7	11.0	2.3	0.4	0.6	2.1	0.3	1.9	0.3	1.1	0.1	1.0	0.1
742494	0.124	< 0.02	0.30	0.40	0.02	0.67	772	13.7	22.0	1.27	2.7	10.4	2.3	0.4	0.6	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742495	0.215	0.04	0.54	0.33	0.07	1.06	273	15.5	25.5	3.94	3.0	11.3	2.4	0.4	0.5	2.0	0.3	1.8	0.3	1.0	0.1	0.9	0.1
742496	0.128	< 0.02	3.02	0.07	< 0.02	0.21	18.9	95.0	149	0.07	15.3	47.4	7.2	0.6	0.5	5.1	0.6	3.7	0.6	1.8	0.2	1.5	0.2
742497	0.095	0.02	1.87	0.07	< 0.02	0.17	14.5	92.7	147	0.03	15.1	46.6	7.2	0.6	0.5	5.0	0.6	3.8	0.6	1.8	0.2	1.5	0.2
742498	0.065	0.02	1.95	0.07	< 0.02	0.17	11.4	100	159	0.06	16.4	50.7	7.7	0.6	0.5	5.3	0.7	4.0	0.7	1.9	0.3	1.6	0.2
742499	0.085	0.03	1.79	0.10	< 0.02	0.18	13.3	94.7	150	0.40	15.4	47.2	7.1	0.5	0.5	5.0	0.6	3.7	0.6	1.7	0.2	1.5	0.2
742500D	0.190	0.03	1.80	0.11	< 0.02	0.19	14.3	97.5	153	0.40	15.8	48.7	7.4	0.6	0.5	5.2	0.6	3.7	0.6	1.8	0.2	1.5	0.2
718901	0.565	0.05	0.49	0.52	0.26	1.12	331	14.8	24.1	13.3	2.8	11.5	2.4	0.5	0.6	2.2	0.3	1.9	0.3	1.0	0.1	1.0	0.1
718902	0.563	0.09	0.31	0.50	0.48	0.80	20.6	14.0	23.6	10.7	2.9	13.4	2.4	0.7	0.8	2.5	0.3	2.0	0.4	1.2	0.2	1.1	0.2
718903	0.287	0.03	0.28	0.56	0.08	0.52	274	12.4	20.4	2.26	2.5	9.60	2.1	0.5	0.5	1.9	0.3	1.7	0.3	1.0	0.1	0.9	0.1
718904	0.900	0.06	0.32	0.58	0.54	0.80	17.5	13.6	23.8	2.45	3.0	12.0	2.8	0.6	0.7	2.4	0.3	2.3	0.4	1.3	0.2	1.3	0.2
718905	0.661	0.05	0.39	0.60	0.38	0.53	16.4	11.5	20.2	1.41	2.5	10.3	2.2	0.5	0.5	2.0	0.3	1.9	0.3	1.0	0.1	1.0	0.1
718906	0.780	0.06	0.45	0.47	0.28	0.48	16.5	11.5	20.7	23.5	2.6	11.1	2.6	0.7	0.6	2.2	0.3	2.1	0.4	1.2	0.2	1.1	0.2
718907	0.684	0.06	1.34	0.42	0.35	0.52	16.0	10.8	19.7	0.67	2.5	10.7	2.5	0.7	0.6	2.2	0.3	2.1	0.4	1.2	0.2	1.2	0.2
718908	0.850	0.16	0.38	0.68	0.49	0.45	17.2	10.7	19.2	4.35	2.5	10.4	2.4	0.8	0.6	2.2	0.3	2.1	0.4	1.2	0.2	1.1	0.2
718909	0.880	0.05	0.66	0.49	0.52	0.37	20.9	8.6	15.9	0.69	2.1	8.80	2.1	0.7	0.4	1.8	0.3	1.8	0.3	1.1	0.2	1.0	0.1
718910	0.602	0.07	1.18	0.67	0.11	1.02	72.0	7.2	14.1	0.65	1.9	8.55	2.2	3.3	0.5	2.1	0.3	2.0	0.3	1.0	0.1	0.9	0.1
718911	1.66	0.09	0.92	0.34	0.39	0.28	11.5	5.7	11.7	48.5	1.4	5.88	1.1	0.7	0.2	1.1	0.2	1.0	0.2	< 0.1	0.7	0.1	
718912	1.33	0.03	3.59	0.39	0.20	0.28	21.4	8.4	14.9	108	1.9	7.54	1.8	1.3	0.4	1.5	0.2	1.5	0.3	0.9	0.1	0.9	0.1
718913	0.239	0.05	0.82	0.28	< 0.02	0.18	89.7	12.7	24.3	0.13	3.3	14.8	3.7	0.6	0.9	3.4	0.5	3.3	0.6	1.8	0.2	1.7	0.2
718914	1.14	0.14	0.40	0.44	0.22	0.37	12.1	6.5	12.4	93.2	1.6	6.82	1.6	1.1	0.3	1.5	0.2	1.5	0.3	0.9	0.1	0.9	0.1
718915	1.16	0.19	0.54	0.49	0.09	0.39	30.4	8.0	14.9	87.9	1.9	7.81	1.8	1.0	0.4	1.6	0.2	1.7	0.3	1.0	0.1	1.0	0.1
718916	0.477	< 0.02	1.13	0.03	0.03	2.38	292	22.2	42.5	0.14	4.8	17.9	2.8	0.2	0.6	2.2	0.3	1.6	0.3	1.0	0.1	1.1	0.2
718917	1.24	0.03	0.82	0.62	0.12	0.43	28.0	8.6	15.7	64.2	2.1	8.66	2.1	0.9	0.4	1.8	0.3	1.8	0.3	1.1	0.2	1.1	0.1
718918	0.858	0.04	0.65	0.39	0.29	0.35	44.0	8.4	15.1	24.9	1.9	7.84	1.9	0.8	0.4	1.7	0.2	1.6	0.3	1.0	0.1	0.9	0.1
718919	0.652	0.05	0.54	0.33	0.36	0.33	45.8	8.4	15.2	13.9	1.9	7.92	1.9	1.0	0.4	1.7	0.2	1.7	0.3	1.0	0.1	1.0	0.1
718920D	0.486	0.06	0.47	0.32	0.31	0.30	25.5	9.1	16.1	13.2	2.0	9.05	1.7	0.8	0.4	1.8	0.3	1.6	0.3	1.0	0.1	1.0	0.1
718921	1.03	0.08	0.34	0.22	0.87	0.29	8.2	8.6	16.2	19.3	2.0	9.56	1.8	2.4	0.4	1.9	0.3	1.7	0.3	1.0	0.1	0.9	0.1
718922	0.884	0.12	0.54	0.39	0.08	0.37	43.1	8.2	15.3	90.9	2.0	8.30	1.9	1.2	0.4	1.7	0.3	1.7	0.3	1.0	0.1	0.9	0.1
718923	1.46	0.54	0.47	0.67	0.17	0.44	22.6	8.8	17.3	104	2.3	9.70	2.4	1.1	0.6	2.1	0.3	2.1	0.4	1.2	0.2	1.1	0.1
718924	0.700	0.13	0.48	0.47	0.05	0.24	47.1	8.4	15.7	44.4	2.1	8.76	2.2	0.6	0.5	1.9	0.3	1.9	0.4	1.1	0.2	1.1	0.1
718925	0.591	0.06	0.33	0.33	0.07	0.20	242	9.1	16.3	24.4	2.0	9.77	1.9	0.7	0.5	1.9	0.3	1.9	0.4	1.2	0.2	1.1	0.2
718926	0.337	0.07	0.38	0.30	0.07	0.24	179	9.1	16.6	13.6	2.1	10.0	1.9	0.3	0.5	2.1	0.3	2.0	0.4	1.3	0.2	1.2	0.2
718927	0.518	0.13	0.48	0.33	0.09	0.29	32.4	7.8	14.6	46.4	1.9	7.88	1.9	0.8	0.4	1.7	0.3	1.8	0.3	1.0	0.2	1.0	0.1
718928	0.560	0.04	0.34	0.29	0.17	0.24	42.1	8.4	15.4	15.8	2.0	9.46	1.8	0.6	0.5	1.9	0.3	1.8	0.4	1.2	0.2	1.0	0.2
718929	0.529	0.06	0.92	0.32	0.14	0.48	24.9	6.4	12.4	23.4	1.6	6.74	1.7	0.5	0.3	1.5	0.2	1.6	0.3	1.0	0.1	0.9	0.1
718930	1.95	0.05	0.47	0.85	0.62	1.54	20.5	5.3	9.75	0.02	1.3	6.42	1.4	10.9	0.4	1.4	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1
718931	0.584	0.36	0.24	0.26	0.14	0.27	13.6	6.6	14.6	34.8	1.9	7.89	1.6	0.4	0.4	1.6	0.2	1.5	0.3	0.9	0.1	1.0	0.1
718932	0.700	0.11	0.91	0.34	0.25	0.28	28.3	8.9	15.9	17.4	2.0	8.13	1.9	0.5	0.4	1.7	0.3	1.7	0.3	1.0	0.1	1.0	0.1
718933	0.624	0.56	0.60	0.40	0.14	0.35	30.8	8.5	16.1	70.1	2.1	9.06	2.2	0.9	0.6	2.0	0.3	1.9	0.4	1.1	0.2	1.1	0.2
718934	0.609	0.44	0.44	0.22	< 0.02	0.30	59.5	7.2	13.3	59.2	1.7	7.26	1.7	0.7	0.4	1.6	0.2	1.6	0.3	1.0	0.1	0.9	0.1
718935	0.988	0.19	1.03	0.28	0.03	0.31	88.2	8.4	15.4	42.7	2.0	8.18	2.0	0.6	0.4	1.8	0.3	1.8	0.3	1.1	0.2	1.1	0.2
718936	0.704	0.20	0.43	0.30	0.07	0.31	25.5	6.7	12.9	64.5	1.7	8.05	1.5	0.7	0.4	1.7	0.3	1.6	0.3	1.0	0.1	0.9	0.1

Results

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
718937	1.67	0.16	0.59	0.31	0.46	0.30	23.9	8.3	15.3	49.5	1.9	9.22	1.8	1.0	0.5	1.9	0.3	1.7	0.4	1.2	0.2	1.1	0.2
718938	1.06	0.03	0.72	0.32	0.34	0.25	30.8	9.0	16.8	6.90	2.2	9.19	2.2	0.6	0.6	2.0	0.3	2.1	0.4	1.2	0.2	1.2	0.2
718939	0.482	0.03	0.83	0.42	0.10	0.29	48.1	9.6	17.6	11.5	2.3	9.65	2.3	0.4	0.6	2.1	0.3	2.1	0.4	1.3	0.2	1.3	0.2
718940D	0.903	0.03	0.54	0.37	0.11	0.29	47.3	9.3	16.8	10.9	2.1	10.2	2.0	0.4	0.6	2.1	0.3	1.9	0.4	1.3	0.2	1.2	0.2
718941	0.822	0.03	0.38	0.48	0.11	0.28	142	9.3	16.7	21.7	2.1	10.1	1.9	0.4	0.6	2.1	0.3	2.0	0.4	1.2	0.2	1.2	0.2
718942	0.832	0.05	1.03	0.41	0.20	0.26	47.7	9.3	17.0	33.2	2.2	9.25	2.2	0.7	0.5	2.0	0.3	2.0	0.4	1.2	0.2	1.2	0.2
718943	1.00	0.19	0.75	0.45	0.24	0.30	59.9	9.3	17.3	40.7	2.2	9.34	2.3	0.8	0.5	2.0	0.3	2.0	0.4	1.3	0.2	1.2	0.2
718944	1.35	0.68	0.49	0.26	0.18	0.28	15.3	7.6	14.3	175	1.9	8.18	2.0	1.7	0.5	1.7	0.3	1.7	0.3	0.9	0.1	0.9	0.1
718945	1.53	0.45	0.42	0.25	0.22	0.35	18.4	7.3	13.9	129	1.8	7.65	1.8	1.4	0.4	1.6	0.2	1.6	0.3	0.9	0.1	1.0	0.1
718946	0.062	0.05	0.25	0.35	0.02	0.39	677	13.0	26.8	0.26	3.3	13.9	2.7	0.3	0.7	2.5	0.4	2.1	0.4	1.2	0.2	1.0	0.1
718947	0.781	0.06	0.36	0.54	0.28	0.24	334	11.8	23.6	0.23	2.9	12.0	2.4	< 0.1	0.6	2.3	0.3	1.9	0.4	1.1	0.1	1.0	0.1
718948	0.839	0.06	0.43	0.43	0.26	0.31	333	11.8	21.0	0.35	2.7	11.4	2.7	0.4	0.6	2.2	0.3	2.0	0.4	1.1	0.1	0.9	0.1
718949	0.127	0.06	2.57	0.11	0.20	0.31	33.8	10.8	20.5	0.22	2.8	11.2	2.4	0.2	0.6	2.6	0.4	2.4	0.4	1.3	0.2	1.6	0.2
718950	0.630	0.07	1.09	0.71	0.10	1.06	76.2	7.7	14.8	0.60	2.0	9.04	2.3	3.6	0.5	2.1	0.3	2.1	0.4	1.1	0.1	0.9	0.1
741401	0.333	0.03	0.48	0.31	0.13	0.37	183	11.5	20.7	0.17	2.7	11.2	2.6	0.4	0.6	2.3	0.3	2.2	0.4	1.3	0.2	1.2	0.2
741402	0.138	0.03	0.40	0.16	0.05	0.41	272	11.0	21.4	0.19	2.6	12.3	2.6	0.4	0.6	2.5	0.4	2.5	0.5	1.5	0.2	1.3	0.2
741403	0.182	0.03	0.36	0.23	0.09	0.40	130	10.1	19.7	0.18	2.5	11.7	2.4	0.2	0.6	2.2	0.3	2.1	0.4	1.3	0.2	1.2	0.2
741404	0.152	0.03	0.38	0.22	0.02	0.27	355	12.3	23.7	1.15	3.0	14.1	3.1	0.4	0.7	2.7	0.4	2.6	0.5	1.5	0.2	1.3	0.2
741405	0.188	0.04	0.47	0.28	0.03	0.31	444	13.5	25.0	3.50	3.0	13.8	2.8	0.4	0.6	2.5	0.4	2.4	0.4	1.4	0.2	1.3	0.2
741406	0.318	0.05	0.43	0.26	0.03	0.27	298	11.9	22.8	4.39	2.8	13.3	2.9	0.4	0.6	2.5	0.4	2.5	0.5	1.5	0.2	1.4	0.2
741407	0.291	0.08	0.41	0.23	0.04	0.29	301	11.3	21.4	19.0	2.6	12.2	2.6	0.5	0.5	2.3	0.3	2.3	0.4	1.4	0.2	1.3	0.2
741408	0.401	0.26	0.56	0.23	0.07	0.29	57.4	9.2	18.2	39.3	2.2	10.5	2.2	0.6	0.5	2.0	0.3	1.9	0.3	1.1	0.2	1.1	0.2
741409	0.239	0.11	0.38	0.22	0.08	0.28	59.7	9.7	18.9	16.7	2.4	11.2	2.4	0.6	0.6	2.2	0.3	2.2	0.4	1.3	0.2	1.2	0.2
741410D	0.264	0.13	0.57	0.24	0.08	0.30	51.7	11.1	21.7	19.5	2.7	12.8	2.8	0.5	0.7	2.5	0.4	2.5	0.5	1.5	0.2	1.3	0.2
741411	0.244	0.05	0.40	0.20	0.11	0.42	96.9	11.7	21.5	6.97	2.6	11.8	2.4	0.4	0.5	2.1	0.3	2.1	0.4	1.2	0.2	1.1	0.2
741412	0.275	0.03	0.44	0.27	0.18	0.42	141	9.7	18.6	0.53	2.3	11.0	2.3	0.5	0.6	2.1	0.3	2.1	0.4	1.2	0.2	1.1	0.2

Activation Laboratories Ltd.

Results

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742369	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.17	12.6	4.0	1.2	30
742370	< 0.1	< 0.05	0.6	0.171	23.7	0.16	43.2	2.4	0.6	10
742371	0.1	< 0.05	0.1	< 0.001	< 0.5	0.21	8.67	3.9	0.9	20
742372	0.1	< 0.05	< 0.1	< 0.001	4.3	0.52	18.5	1.4	0.6	20
742373	< 0.1	< 0.05	< 0.1	< 0.001	1.4	0.23	3.05	4.1	1.0	30
742374	0.2	< 0.05	< 0.1	< 0.001	2.3	0.58	6.86	1.4	0.9	40
742375	0.1	< 0.05	< 0.1	0.001	< 0.5	0.47	5.20	1.2	0.6	< 10
742376	0.1	< 0.05	3.0	< 0.001	< 0.5	0.59	7.11	1.3	0.5	50
742377	0.1	< 0.05	0.2	< 0.001	< 0.5	0.61	6.87	1.6	0.5	20
742378	0.1	< 0.05	0.4	< 0.001	< 0.5	0.45	4.59	1.3	0.6	20
742379	< 0.1	< 0.05	1.1	< 0.001	< 0.5	0.56	6.76	1.4	0.6	40
742380D	0.1	< 0.05	1.1	< 0.001	< 0.5	0.55	9.27	1.6	0.6	30
742381	< 0.1	< 0.05	< 0.1	< 0.001	1.2	0.56	9.50	1.4	0.5	30
742382	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.61	7.65	1.1	0.4	30
742383	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.74	9.54	1.0	0.5	20
742384	< 0.1	< 0.05	< 0.1	< 0.001	1.2	0.58	7.30	1.0	0.5	10
742385	< 0.1	< 0.05	< 0.1	< 0.001	0.6	0.71	7.77	1.0	0.4	20
742386	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.74	7.08	0.9	0.4	30
742387	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.65	8.36	1.0	0.4	< 10
742388	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.56	15.8	0.9	0.3	10
742389	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.35	206	1.1	0.3	< 10
742390	< 0.1	< 0.05	0.6	0.153	18.2	0.18	42.3	2.3	0.6	10
742391	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.47	11.4	1.1	0.3	10
742392	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.47	7.02	1.1	0.4	20
742393	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.49	7.46	0.8	0.4	< 10
742394	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.54	12.3	0.8	0.5	30
742395	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.49	12.5	0.7	0.4	10
742396	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.44	9.76	0.7	0.4	10
742397	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.41	10.5	0.8	0.5	20
742398	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.38	12.2	0.9	0.3	10
742399	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.39	9.87	1.0	0.4	< 10
742400D	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.40	9.55	1.0	0.4	< 10
742401	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.32	6.27	0.6	0.4	< 10
742402	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.21	4.91	0.5	0.3	50
742403	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.24	5.30	0.9	0.5	< 10
742404	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.30	4.85	0.8	0.4	20
742405	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.30	4.94	0.8	0.4	20
742406	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.10	2.20	0.4	0.3	< 10
742407	< 0.1	< 0.05	< 0.1	0.003	< 0.5	0.19	4.71	0.5	0.3	20
742408	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.23	10.6	1.2	0.4	< 10
742409	0.2	< 0.05	< 0.1	< 0.001	2.3	0.20	30.5	1.9	0.8	10
742410	< 0.1	< 0.05	0.2	0.023	58.3	0.25	15.4	1.1	0.7	180

Results

Activation Laboratories Ltd.

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742411	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.18	37.4	3.9	1.6	20
742412	0.1	< 0.05	< 0.1	0.001	1.5	0.26	24.9	2.0	1.0	< 10
742413	0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.22	40.9	1.5	0.8	40
742414	< 0.1	< 0.05	< 0.1	0.001	0.9	0.21	10.9	1.6	0.7	20
742415	< 0.1	< 0.05	< 0.1	< 0.001	2.2	0.22	6.87	1.4	0.7	20
742416	< 0.1	< 0.05	< 0.1	0.001	0.9	0.23	7.70	1.4	0.6	20
742417	< 0.1	< 0.05	< 0.1	0.002	13.6	0.38	58.6	1.4	0.6	30
742418	0.1	< 0.05	< 0.1	< 0.001	2.9	0.35	29.1	2.5	1.0	20
742419	< 0.1	< 0.05	< 0.1	< 0.001	2.6	0.15	7.05	2.9	0.8	10
742420D	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.12	6.05	2.7	0.8	< 10
742421	< 0.1	< 0.05	< 0.1	< 0.001	2.2	0.11	6.98	3.6	0.9	< 10
742422	0.1	< 0.05	< 0.1	< 0.001	4.4	0.12	7.63	3.8	1.1	10
742423	0.1	< 0.05	< 0.1	< 0.001	13.4	0.12	241	3.4	1.1	30
742424	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.06	6.99	0.9	0.4	< 10
742425	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.18	16.5	2.5	1.1	< 10
742426	0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.13	7.85	2.5	1.2	< 10
742427	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.10	6.63	2.8	1.2	< 10
742428	0.2	< 0.05	< 0.1	< 0.001	< 0.5	0.09	6.13	2.7	1.0	< 10
742429	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.14	6.93	2.3	0.8	< 10
742430	< 0.1	< 0.05	3.9	0.162	18.6	0.14	43.9	2.4	0.6	20
742431	0.1	< 0.05	0.1	< 0.001	< 0.5	0.11	6.07	2.3	0.9	< 10
742432	< 0.1	< 0.05	< 0.1	0.001	2.3	0.12	5.88	2.3	1.1	10
742433	0.1	< 0.05	0.1	< 0.001	3.0	0.12	8.60	2.2	1.1	20
742434	0.1	< 0.05	< 0.1	0.001	2.9	0.10	6.85	2.3	1.2	< 10
742435	0.3	< 0.05	0.2	< 0.001	2.2	0.12	6.27	2.8	1.5	< 10
742436	0.2	< 0.05	0.2	0.001	3.1	0.15	5.14	3.0	1.5	< 10
742437	0.3	< 0.05	0.2	< 0.001	87.7	0.15	33.5	2.6	1.3	20
742438	0.2	< 0.05	0.2	0.001	6.7	0.16	132	2.2	1.3	40
742439	0.2	< 0.05	0.1	0.001	7.4	0.17	15.7	2.1	1.1	< 10
742440D	0.2	< 0.05	0.2	< 0.001	2.9	0.14	15.7	2.1	1.1	< 10
742441	0.3	< 0.05	0.2	0.001	8.3	0.13	85.8	2.0	1.1	< 10
742442	0.2	< 0.05	0.3	0.003	22.9	0.17	109	1.7	1.4	< 10
742443	0.2	< 0.05	0.1	< 0.001	2.2	0.11	5.55	2.3	1.2	< 10
742444	0.3	< 0.05	0.3	< 0.001	2.9	0.07	6.58	3.7	1.6	< 10
742445	0.4	< 0.05	0.3	< 0.001	0.7	0.05	4.82	3.4	1.5	< 10
742446	0.3	< 0.05	0.2	< 0.001	2.2	0.06	6.18	3.5	1.4	< 10
742447	0.2	< 0.05	0.3	0.003	2.1	0.08	6.89	24.5	3.6	< 10
742448	0.4	< 0.05	0.2	< 0.001	0.7	0.05	4.80	3.9	1.4	< 10
742449	0.3	< 0.05	0.3	< 0.001	2.1	0.06	4.77	3.7	1.5	< 10
742450	0.1	< 0.05	0.2	0.022	59.1	0.23	15.9	1.2	0.7	160
742451	0.4	< 0.05	0.3	< 0.001	2.2	0.06	4.58	3.4	1.4	< 10
742452	0.3	< 0.05	0.1	< 0.001	3.7	0.04	4.39	3.5	1.3	< 10

Results

Activation Laboratories Ltd.

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742453	0.3	< 0.05	0.2	< 0.001	3.7	0.03	3.09	3.6	1.4	< 10
742454	0.3	< 0.05	0.2	< 0.001	2.9	0.03	6.63	3.5	1.4	< 10
742455	0.4	< 0.05	0.2	< 0.001	2.1	0.03	4.46	3.6	1.4	< 10
742456	0.3	< 0.05	0.2	0.001	3.6	0.05	6.59	3.6	1.4	< 10
742457	0.2	< 0.05	0.1	< 0.001	0.7	0.03	5.45	3.4	1.3	< 10
742458	0.4	< 0.05	0.3	< 0.001	3.6	0.03	364	3.3	1.5	< 10
742459	< 0.1	< 0.05	0.3	< 0.001	< 0.5	0.03	258	3.3	1.4	40
742460D	< 0.1	< 0.05	0.3	< 0.001	1.5	0.03	271	3.6	1.4	40
742461	< 0.1	< 0.05	0.5	0.001	< 0.5	0.03	35.6	3.1	1.3	20
742462	< 0.1	< 0.05	0.2	0.001	3.0	0.10	9.00	2.7	1.1	< 10
742463	< 0.1	< 0.05	0.2	0.002	< 0.5	0.11	23.4	2.5	1.2	30
742464	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.07	699	3.4	1.2	100
742465	< 0.1	< 0.05	0.1	< 0.001	1.6	0.03	47.2	3.8	1.2	< 10
742466	< 0.1	< 0.05	0.2	< 0.001	2.2	0.05	43.0	4.0	1.3	< 10
742467	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.04	13.0	3.7	1.2	< 10
742468	< 0.1	< 0.05	0.2	0.001	1.6	0.03	3.79	4.2	1.2	< 10
742469	0.3	< 0.05	0.1	< 0.001	1.4	0.05	4.41	4.0	1.5	< 10
742470	< 0.1	< 0.05	0.5	0.176	12.5	0.13	41.2	2.6	0.6	20
742471	< 0.1	< 0.05	< 0.1	0.001	1.4	0.04	5.13	4.0	1.5	< 10
742472	0.1	< 0.05	< 0.1	< 0.001	0.6	0.05	11.5	3.6	1.3	< 10
742473	0.4	< 0.05	0.2	< 0.001	2.1	0.03	6.59	3.6	1.4	< 10
742474	0.3	< 0.05	0.1	< 0.001	5.1	0.03	10.6	3.6	1.3	< 10
742475	0.2	< 0.05	0.1	0.001	0.7	0.04	6.37	3.8	1.3	< 10
742476	0.3	< 0.05	0.2	< 0.001	3.2	0.04	48.7	4.1	1.5	< 10
742477	0.3	< 0.05	0.2	< 0.001	< 0.5	0.05	4.73	4.0	1.5	< 10
742478	0.3	< 0.05	0.1	< 0.001	1.4	0.05	4.74	3.5	1.4	< 10
742479	0.2	< 0.05	0.2	< 0.001	1.5	0.05	4.57	3.9	1.5	< 10
742480D	0.3	< 0.05	0.1	< 0.001	2.3	0.05	5.08	3.9	1.5	< 10
742481	0.2	< 0.05	0.1	< 0.001	1.4	0.05	14.3	3.8	1.4	< 10
742482	0.1	< 0.05	< 0.1	< 0.001	2.2	0.05	8.35	4.1	1.4	< 10
742483	< 0.1	< 0.05	< 0.1	0.001	2.3	0.05	5.77	3.9	1.4	< 10
742484	0.1	< 0.05	< 0.1	< 0.001	1.1	0.06	12.8	3.9	1.4	< 10
742485	0.2	< 0.05	0.1	0.001	5.1	0.05	12.5	3.2	1.2	< 10
742486	0.3	< 0.05	0.2	0.001	3.6	0.04	8.28	3.6	1.4	< 10
742487	0.2	< 0.05	0.1	< 0.001	1.4	0.03	6.54	4.0	1.5	< 10
742488	0.2	< 0.05	< 0.1	< 0.001	0.7	0.04	6.78	4.2	1.5	< 10
742489	0.2	< 0.05	< 0.1	0.001	< 0.5	0.05	6.80	3.5	1.3	< 10
742490	0.3	< 0.05	35.3	0.002	8.0	0.08	3.60	1.3	0.4	40
742491	0.1	< 0.05	0.2	< 0.001	1.9	0.06	6.55	3.6	1.4	< 10
742492	0.1	< 0.05	0.1	< 0.001	3.0	0.07	14.2	3.9	1.4	< 10
742493	0.1	< 0.05	< 0.1	< 0.001	1.9	0.08	25.3	3.8	1.4	< 10
742494	0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.06	27.8	3.6	1.3	< 10

Activation Laboratories Ltd.

Results

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742495	< 0.1	< 0.05	< 0.1	< 0.001	4.7	0.14	35.2	4.5	1.4	< 10
742496	1.2	< 0.05	0.3	< 0.001	4.9	0.09	7.56	40.1	7.4	< 10
742497	1.2	< 0.05	0.4	< 0.001	4.8	0.09	5.21	40.6	9.2	< 10
742498	1.1	< 0.05	0.5	< 0.001	2.8	0.09	4.21	43.5	7.0	< 10
742499	1.1	< 0.05	0.3	< 0.001	4.8	0.10	20.7	41.1	5.7	< 10
742500D	1.1	< 0.05	0.4	< 0.001	4.4	0.10	21.0	42.5	5.9	< 10
718901	0.1	< 0.05	< 0.1	0.001	4.8	0.09	9.87	4.6	1.2	30
718902	0.2	< 0.05	0.2	< 0.001	3.7	0.07	24.4	2.2	1.2	90
718903	0.2	< 0.05	0.2	< 0.001	2.8	0.05	9.00	3.3	1.2	< 10
718904	0.3	< 0.05	0.2	< 0.001	13.1	0.11	89.1	3.4	1.5	< 10
718905	0.3	< 0.05	0.2	< 0.001	13.5	0.11	47.9	3.0	1.3	< 10
718906	0.3	< 0.05	0.2	< 0.001	10.6	0.09	78.1	2.6	1.1	40
718907	0.4	< 0.05	0.4	< 0.001	8.8	0.14	74.5	2.6	1.3	< 10
718908	0.4	< 0.05	0.1	0.001	10.7	0.12	75.6	2.5	1.2	< 10
718909	0.4	< 0.05	0.3	< 0.001	21.6	0.13	71.4	2.2	1.1	< 10
718910	< 0.1	< 0.05	0.5	0.146	7.6	0.14	42.0	2.1	0.6	< 10
718911	< 0.1	< 0.05	0.1	< 0.001	4.8	0.09	119	3.0	0.8	60
718912	< 0.1	< 0.05	< 0.1	0.001	20.6	0.09	417	2.9	0.9	100
718913	0.1	< 0.05	0.3	0.002	2.9	0.02	8.10	0.9	0.4	< 10
718914	< 0.1	< 0.05	< 0.1	0.004	19.9	0.11	278	1.9	0.8	70
718915	< 0.1	< 0.05	0.1	0.011	12.9	0.14	466	2.1	0.9	50
718916	0.1	< 0.05	0.2	< 0.001	< 0.5	0.32	3.73	7.4	2.1	< 10
718917	< 0.1	< 0.05	< 0.1	0.014	17.4	0.14	247	2.4	1.0	50
718918	0.1	< 0.05	0.2	0.008	18.4	0.11	40.6	2.8	0.9	10
718919	0.1	< 0.05	0.1	< 0.001	10.6	0.09	25.7	2.6	0.8	10
718920D	0.1	< 0.05	0.1	< 0.001	3.7	0.08	27.7	2.6	0.8	60
718921	0.1	< 0.05	< 0.1	0.004	9.2	0.13	40.1	3.1	0.8	50
718922	< 0.1	< 0.05	< 0.1	0.002	19.6	0.13	1040	3.0	1.1	70
718923	< 0.1	< 0.05	< 0.1	0.006	24.4	0.17	1880	2.4	0.9	70
718924	< 0.1	< 0.05	< 0.1	< 0.001	14.5	0.09	459	2.3	0.7	20
718925	< 0.1	< 0.05	< 0.1	< 0.001	1.2	0.06	468	2.5	0.6	50
718926	< 0.1	< 0.05	0.1	< 0.001	1.6	0.07	11.1	2.9	0.9	50
718927	< 0.1	< 0.05	< 0.1	0.002	7.8	0.10	145	2.2	0.8	50
718928	0.1	< 0.05	0.1	< 0.001	0.7	0.07	105	2.6	0.8	50
718929	< 0.1	< 0.05	< 0.1	0.008	8.6	0.12	70.4	1.7	0.6	20
718930	< 0.1	< 0.05	2.0	0.426	64.4	0.41	14.5	1.2	0.3	40
718931	< 0.1	< 0.05	0.2	0.001	0.9	0.10	39.9	2.3	0.6	50
718932	< 0.1	< 0.05	0.1	0.009	5.0	0.09	72.6	2.5	0.8	10
718933	< 0.1	< 0.05	< 0.1	0.008	18.3	0.10	53.6	2.5	0.9	50
718934	< 0.1	< 0.05	< 0.1	< 0.001	8.5	0.09	29.7	2.0	0.7	30
718935	< 0.1	< 0.05	0.1	< 0.001	7.2	0.10	320	2.3	0.8	30
718936	< 0.1	< 0.05	0.2	< 0.001	0.6	0.14	55.9	1.8	0.7	110

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Results

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
718937	0.1	< 0.05	0.1	< 0.001	4.1	0.11	71.6	2.7	1.1	70
718938	< 0.1	< 0.05	< 0.1	< 0.001	21.8	0.07	159	2.1	0.7	10
718939	< 0.1	< 0.05	0.1	< 0.001	5.7	0.07	173	2.3	0.9	< 10
718940D	< 0.1	< 0.05	0.1	0.001	1.7	0.07	173	2.3	0.8	20
718941	< 0.1	< 0.05	0.1	< 0.001	1.6	0.06	273	2.3	0.9	40
718942	< 0.1	< 0.05	0.1	< 0.001	5.0	0.07	383	2.2	0.9	30
718943	0.1	< 0.05	0.1	< 0.001	8.7	0.08	192	2.3	1.0	40
718944	< 0.1	< 0.05	< 0.1	0.003	58.2	0.10	39.7	1.6	0.6	160
718945	< 0.1	< 0.05	< 0.1	0.003	115	0.11	99.1	1.7	0.7	130
718946	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.08	6.93	3.0	0.9	< 10
718947	< 0.1	< 0.05	0.2	< 0.001	2.2	0.05	22.3	3.8	1.2	< 10
718948	0.3	< 0.05	0.1	< 0.001	5.7	0.07	36.4	2.5	1.0	< 10
718949	< 0.1	< 0.05	< 0.1	< 0.001	1.0	0.08	27.3	2.8	1.0	< 10
718950	< 0.1	< 0.05	0.4	0.175	16.5	0.13	45.6	2.2	0.6	< 10
741401	< 0.1	< 0.05	< 0.1	< 0.001	5.7	0.07	16.4	2.5	1.0	< 10
741402	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.09	23.1	2.6	0.9	< 10
741403	< 0.1	< 0.05	< 0.1	< 0.001	5.3	0.11	17.3	2.8	0.9	< 10
741404	< 0.1	< 0.05	< 0.1	< 0.001	2.9	0.08	15.6	3.1	1.1	< 10
741405	< 0.1	< 0.05	< 0.1	< 0.001	2.9	0.09	41.2	3.7	1.2	< 10
741406	< 0.1	< 0.05	< 0.1	< 0.001	4.9	0.08	46.5	3.4	1.1	< 10
741407	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.10	81.7	3.4	1.1	10
741408	< 0.1	< 0.05	< 0.1	< 0.001	9.6	0.10	47.2	2.8	0.9	20
741409	< 0.1	< 0.05	< 0.1	< 0.001	4.9	0.09	17.9	2.7	0.9	< 10
741410D	< 0.1	< 0.05	< 0.1	< 0.001	2.0	0.11	22.0	3.1	1.0	10
741411	< 0.1	< 0.05	< 0.1	< 0.001	6.2	0.11	13.5	3.0	0.9	< 10
741412	< 0.1	< 0.05	< 0.1	< 0.001	1.9	0.09	9.65	2.4	0.8	< 10

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP																			
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
MP-1b Meas				48.4		17500				890	2.5	618			3.01	8.4				< 0.1		0.030	
MP-1b Cert				47.0		23000.	00			954.00	2.47	527.00	00		3.07	8.19				0.024		0.029	
MP-1b Meas				46.6		18900				540	1.4	527			2.99	8.1				< 0.1		0.030	
MP-1b Cert				47.0		23000.	00			954.00	2.47	527.00	00		3.07	8.19				0.024		0.029	
PK2 Meas	4810	5770	4590																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4670	5700	4680																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4770	5860	4720																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4800	5860	4790																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4760	5860	4850																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
PK2 Meas	4860	5930	4870																				
PK2 Cert	4790	5918.0	4749.0	00	00																		
SDC-1 1F2 Assay (%) Meas						< 30	630	< 10						20	50	0.003				40		0.085	

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na		
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%		
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1		
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP																				
SDC-1 1F2 Assay (%) Cert						0.220	630	3.00				18	64.0	0.0030					34.0		0.088				
SDC-1 1F2 Assay (%) Meas						< 30	630	< 10				20	60	0.003					30		0.092				
SDC-1 1F2 Assay (%) Cert						0.220	630	3.00				18	64.0	0.0030					34.0		0.088				
SBC-1 1F2-assay Kamloops (%) Meas						< 30	730	< 10	< 20		< 3	20	90	0.003		30			160		0.115	< 0.001			
SBC-1 1F2-assay Kamloops (%) Cert						25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024			
SBC-1 1F2-assay Kamloops (%) Meas						40	810	< 10	< 20		< 3	20	100	0.003		20			160		0.125	< 0.001			
SBC-1 1F2-assay Kamloops (%) Cert						25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024			
GXR-6 1F2-assay Kamloops (%) Meas				< 3.0	16.8	320	1550	< 10	< 20	0.2	< 3	10	80	0.006	5.7	40	< 10	2.3	40	0.6	0.111	< 0.001	0.1		
GXR-6 1F2-assay Kamloops (%) Cert					1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.104		
GXR-4 1F2-assay Kamloops (%) Meas					3.1	7.5	90	620	< 10	< 20	1.0	< 3	10	40	0.655	3.1	20	< 10	2.0	10	1.7	0.015	0.032	0.5	
GXR-4 1F2-assay Kamloops (%) Cert						4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564
GXR-4 1F2-assay Kamloops (%) Meas						< 3.0	7.4	110	1580	< 10	< 20	1.0	< 3	10	60	0.665	3.1	20	< 10	4.9	< 10	1.7	0.015	0.032	0.5
GXR-4 1F2-assay Kamloops (%) Cert						4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	0.652	3.09	20.0	0.110	4.01	11.1	1.66		0.031	0.564
OREAS 14P 1F2-assay Kamloops (%) Meas														690		0.950	36.1								
OREAS 14P 1F2-assay Kamloops (%) Cert														750		0.997	37.2								
OREAS 14P 1F2-assay Kamloops (%) Meas														710		1.03	37.2								
OREAS 14P														750		0.997	37.2								

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas						< 30								0.010		20						1.14	1.50
GBW 07238 1F2-assay Kamloops (%) Cert						1.60								0.00936		25.0						1.08	1.51
GBW 07238 1F2-assay Kamloops (%) Meas						< 30								0.009		10						1.10	1.45
GBW 07238 1F2-assay Kamloops (%) Cert						1.60								0.00936		25.0						1.08	1.51
GBW 07239 1F2-assay Kamloops (%) Meas						< 30			< 20				10	0.008		20						1.23	0.115
GBW 07239 1F2-assay Kamloops (%) Cert						1.0			1.0				13.5	0.00486		23.1						1.15	0.110
GBW 07239 1F2-assay Kamloops (%) Meas						< 30			< 20				< 10	0.006		20						1.23	0.114
GBW 07239 1F2-assay Kamloops (%) Cert						1.0			1.0				13.5	0.00486		23.1						1.15	0.110
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																	
OREAS 923 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
SdAR-M2 (U.S.G.S.) Meas							950	< 10	< 20		5	< 10	40	0.023		10	< 10		20			0.001		
SdAR-M2 (U.S.G.S.) Cert							990	6.6	1.05		5.1	12.4	49.6	0.0236		17.6	1.44		20			0.001		
SdAR-M2 (U.S.G.S.) Meas							1000	< 10	< 20		5	10	50	0.025		20	< 10		20			0.001		
SdAR-M2 (U.S.G.S.) Cert							990	6.6	1.05		5.1	12.4	49.6	0.0236		17.6	1.44		20			0.001		
SdAR-M2 (U.S.G.S.) Meas																								
SdAR-M2 (U.S.G.S.) Cert																								
CCU-1e Meas				208.4	0.2	740				0.1	72	310			32.1		< 10		0.7	0.013				
CCU-1e Cert				205	0.139	1010				0.129	74.2	301			30.7		10.4		0.706	0.00960				
CCU-1e Meas				214.9	0.2	840				0.1	78	320			33.3		< 10		0.7	0.012				
CCU-1e Cert				205	0.139	1010				0.129	74.2	301			30.7		10.4		0.706	0.00960				
CDN-PGMS-28 Meas	188	1650	1460																					
CDN-PGMS-28 Cert	193.000	1750	1510																					
CDN-PGMS-28 Meas	182	1710	1460																					
CDN-PGMS-28 Cert	193.000	1750	1510																					
CDN-PGMS-28 Meas	204	1720	1460																					
CDN-PGMS-28 Cert	193.000	1750	1510																					
CDN-PGMS-28 Meas	171	1750	1490																					
CDN-PGMS-28 Cert	193.000	1750	1510																					
CDN-PGMS-28	200	1630	1420																					

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	
Lower Limit	2	5	5	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
Meas																								
CDN-PGMS-28 Cert		1750	1510																					
742373 Orig	< 2	< 5	< 5																					
742373 Dup	< 2	< 5	< 5																					
742381 Orig				< 3.0	11.1	< 30	1120	< 10	< 20	0.9	< 3	< 10	< 10	< 0.001	5.7	20	< 10	2.9	20	1.3	0.032	< 0.001	0.3	
742381 Dup				< 3.0	10.4	< 30	1080	< 10	< 20	0.8	< 3	10	< 10	< 0.001	5.5	20	< 10	2.8	20	1.2	0.031	< 0.001	0.3	
742394 Orig	< 2	< 5	< 5																					
742394 Dup	< 2	< 5	< 5																					
742395 Orig				< 3.0	10.3	< 30	1460	< 10	< 20	4.6	< 3	< 10	< 10	< 0.001	3.3	20	< 10	3.2	10	0.5	0.006	< 0.001	0.2	
742395 Dup				< 3.0	9.4	< 30	1180	< 10	< 20	4.4	< 3	< 10	< 10	< 0.001	3.1	20	< 10	3.0	10	0.5	0.007	< 0.001	0.2	
742408 Orig																								
742408 Dup																								
742409 Orig	2	< 5	< 5																					
742409 Dup	2	< 5	< 5																					
742418 Orig	10	< 5	< 5	< 3.0	8.5	< 30	1790	< 10	< 20	3.5	< 3	< 10	< 10	0.008	4.2	20	< 10	3.2	10	0.9	0.186	< 0.001	1.9	
742418 Split PREP DUP	10	< 5	< 5	< 3.0	8.8	30	1810	< 10	< 20	3.5	< 3	< 10	< 10	0.006	4.4	20	< 10	3.4	20	0.9	0.192	< 0.001	2.0	
742419 Orig				< 3.0	7.8	< 30	3240	< 10	< 20	4.6	< 3	< 10	< 10	0.006	2.6	< 10	< 10	3.2	10	0.5	0.185	< 0.001	1.7	
742419 Dup				< 3.0	8.0	< 30	3220	< 10	< 20	4.6	< 3	< 10	< 10	0.006	2.6	10	< 10	3.2	10	0.5	0.181	< 0.001	1.7	
742421 Orig																								
742421 Dup																								
742429 Orig	17	< 5	< 5																					
742429 Dup	6	< 5	< 5																					
742433 Orig				< 3.0	9.9	< 30	1050	< 10	< 20	3.7	5	10	40	0.003	4.3	10	< 10	2.3	< 10	1.2	0.275	< 0.001	2.4	
742433 Dup				< 3.0	10.2	< 30	1050	< 10	< 20	3.8	4	< 10	40	0.003	4.4	20	< 10	2.4	< 10	1.3	0.274	< 0.001	2.4	
742444 Orig	< 2	< 5	< 5																					
742444 Dup	4	< 5	< 5																					
742458 Orig				4.2	8.9	< 30	2090	< 10	< 20	2.5	22	< 10	30	0.018	3.5	10	< 10	4.4	< 10	1.1	0.237	< 0.001	2.6	
742458 Dup				< 3.0	9.2	< 30	2110	< 10	< 20	2.5	22	10	10	0.019	3.5	10	< 10	4.5	< 10	1.1	0.234	< 0.001	2.6	
742465 Orig	< 2	< 5	< 5																					
742465 Dup	< 2	< 5	< 5																					
742468 Orig	< 2	< 5	< 5	< 3.0	8.7	< 30	2140	< 10	< 20	2.9	< 3	< 10	20	0.010	3.7	< 10	< 10	4.2	< 10	1.1	0.234	< 0.001	2.2	
742468 Split PREP DUP	< 2	< 5	< 5	< 3.0	8.8	< 30	2100	< 10	< 20	2.8	< 3	10	20	0.010	3.6	10	< 10	3.8	< 10	1.1	0.224	< 0.001	2.2	
742470 Orig																								
742470 Dup																								
742471 Orig				< 3.0	8.9	< 30	1820	< 10	< 20	2.7	< 3	< 10	< 10	0.003	3.6	20	< 10	3.3	< 10	1.1	0.177	< 0.001	2.6	
742471 Dup				< 3.0	8.9	< 30	1800	< 10	< 20	2.7	< 3	< 10	20	0.003	3.6	10	< 10	4.5	< 10	1.0	0.172	< 0.001	2.6	
742477 Orig																								
742477 Dup																								
742484 Orig																								
742484 Dup																								

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Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS														
GXR-1 Meas																	0.007	< 1	0.045	7.8	0.7	14	0.066
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520
GXR-1 Meas																	0.010	< 1	0.050	7.8	0.7	11	0.080
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520
GXR-1 Meas																	0.010	< 1	0.050	7.7	0.7	14	0.070
GXR-1 Cert																	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520
GXR-4 Meas																	0.129	2	0.127	9.3	1.4	4	0.128
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564
GXR-4 Meas																	0.130	2	0.120	8.9	1.3	3	0.150
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564
GXR-4 Meas																	0.130	2	0.120	8.8	1.4	5	0.120
GXR-4 Cert																	0.29	1.77	0.120	11.1	1.90	4.50	0.564
GXR-6 Meas																	< 1	0.036	26.4	0.7	5	0.082	
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104	
GXR-6 Meas																	< 1	0.040	28.1	0.9	5	0.100	
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104	
GXR-6 Meas																	< 1	0.040	27.8	1.0	7	0.080	
GXR-6 Cert																	0.0160	0.0350	32.0	1.40	9.80	0.104	
MP-1b Meas		21600	13.5												1020		16.6						
MP-1b Cert		20900	13.79												1100.0	00	16.7						
MP-1b Meas		19400	12.2												820		16.5						
MP-1b Cert		20900	13.79												1100.0	00	16.7						
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
SDC-1 1F2 Assay (%) Meas	0.004		< 30		< 50	< 40	180						60	< 50		0.010	< 50						
SDC-1 1F2 Assay (%) Cert	0.0038		25.0		0.540	17.0	180						102	0.80		0.0103	290						
SDC-1 1F2 Assay (%) Meas	0.005		< 30		< 50	< 40	170						60	< 50		0.010	50						
SDC-1 1F2 Assay (%) Cert	0.0038		25.0		0.540	17.0	180						102	0.80		0.0103	290						

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
SBC-1 1F2-assay Kamloops (%) Meas	0.008		50		< 50	< 40	180			< 50	< 100	230	< 50	40	0.020	130							
SBC-1 1F2-assay Kamloops (%) Cert	0.00828		35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134							
SBC-1 1F2-assay Kamloops (%) Meas	0.009		< 30		< 50	< 40	190			< 50	< 100	240	< 50	40	0.021	160							
SBC-1 1F2-assay Kamloops (%) Cert	0.00828		35.0		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134							
GXR-6 1F2-assay Kamloops (%) Meas	0.002	0.04	90	< 0.1	< 50	< 40	40	< 20		< 50	< 100	170	< 50	20	0.013	120							
GXR-6 1F2-assay Kamloops (%) Cert	0.0027	0.0350	101	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110							
GXR-4 1F2-assay Kamloops (%) Meas	0.004	0.13	60	1.8	< 50	< 40	210	< 20		< 50	< 100	90	< 50	20	0.007	60							
GXR-4 1F2-assay Kamloops (%) Cert	0.0042	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186							
GXR-4 1F2-assay Kamloops (%) Meas	0.003	0.13	50	1.8	< 50	< 40	220	< 20		< 50	< 100	90	< 50	20	0.007	50							
GXR-4 1F2-assay Kamloops (%) Cert	0.0042	0.120	52.0	1.77	4.80	7.70	221	0.970		3.20	6.20	87.0	30.8	14.0	0.0073	186							
OREAS 14P 1F2-assay Kamloops (%) Meas	1.95																						
OREAS 14P 1F2-assay Kamloops (%) Cert	2.10																						
OREAS 14P 1F2-assay Kamloops (%) Meas	1.98																						
OREAS 14P 1F2-assay Kamloops (%) Cert	2.10																						
GBW 07238 1F2-assay Kamloops (%) Meas	0.003		< 30										2390	10	0.007								

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%		
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GBW 07238 1F2-assay Kamloops (%) Cert	0.00178			18.7										3600	11.4	0.00655								
GBW 07238 1F2-assay Kamloops (%) Meas	0.004			< 30										2600	10	0.007								
GBW 07238 1F2-assay Kamloops (%) Cert	0.00178			18.7										3600	11.4	0.00655								
GBW 07239 1F2-assay Kamloops (%) Meas	0.002			50										1110	40	0.028								
GBW 07239 1F2-assay Kamloops (%) Cert	0.00209			26.1										1000.00	34.2	0.012								
GBW 07239 1F2-assay Kamloops (%) Meas	0.002			< 30										1160	40	0.014								
GBW 07239 1F2-assay Kamloops (%) Cert	0.00209			26.1										1000.00	34.2	0.012								
OREAS 922 (AQUA REGIA) Meas																	< 1	0.060	22.2	0.8		0.030		
OREAS 922 (AQUA REGIA) Cert																	0.386	0.063	22.8	0.65		0.021		
OREAS 922 (AQUA REGIA) Meas																	< 1	0.060	21.6	0.7		0.030		
OREAS 922 (AQUA REGIA) Cert																	0.386	0.063	22.8	0.65		0.021		
OREAS 923 (AQUA REGIA) Meas																	< 1	0.064	24.2	0.6				
OREAS 923 (AQUA REGIA) Cert																	0.684	0.061	23.4	0.61				
OREAS 923 (AQUA REGIA) Meas																	< 1	0.050	23.6	0.8				
OREAS 923																	0.684	0.061	23.4	0.61				

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS							
(AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																	< 1	0.050	23.1	0.7			
OREAS 923 (AQUA REGIA) Cert																	0.684	0.061	23.4	0.61			
SdAR-M2 (U.S.G.S.) Meas	0.004		790			< 40	140				< 100	30	< 50	30	0.078	120					13.2	4.4	
SdAR-M2 (U.S.G.S.) Cert	0.005		808			4.1	144				2.53	25.2	2.8	32.7	0.076	259					17.9	6.6	
SdAR-M2 (U.S.G.S.) Meas	0.004		820			< 40	140				< 100	30	< 50	30	0.080	140					12.6	4.4	
SdAR-M2 (U.S.G.S.) Cert	0.005		808			4.1	144				2.53	25.2	2.8	32.7	0.076	259					17.9	6.6	
SdAR-M2 (U.S.G.S.) Meas																					12.8	4.5	
SdAR-M2 (U.S.G.S.) Cert																					17.9	6.6	
CCU-1e Meas		7300	33.4	80			60		< 50						3.08								
CCU-1e Cert		7030	35.3	104				61.8		2.69					3.02								
CCU-1e Meas		7500	35.5	70				80		< 50					3.17								
CCU-1e Cert		7030	35.3	104				61.8		2.69					3.02								
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
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CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
742373 Orig																							
742373 Dup																							
742381 Orig	< 0.001	0.14	< 30	6.5	< 50	< 40	230	< 20	0.4	< 50	< 100	150	< 50	30	0.003	130	0.001	6	0.118	13.1	0.6	9	0.051

Analyte Symbol	Ni	P	Pb	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	
Unit Symbol	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%		
Lower Limit	0.001	0.01	30	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS		
742381 Dup	< 0.001	0.14	< 30	5.9	< 50	< 40	210	< 20	0.4	< 50	< 100	140	< 50	30	0.003	120	0.001	6	0.118	13.0	0.6	5	0.050	
742394 Orig																								
742394 Dup																								
742395 Orig	< 0.001	0.12	< 30	7.1	< 50	< 40	450	< 20	0.4	< 50	< 100	120	< 50	30	0.002	120	< 0.001	6	0.091	7.9	0.7	5	0.043	
742395 Dup	< 0.001	0.11	< 30	6.7	< 50	< 40	420	< 20	0.4	< 50	< 100	110	< 50	20	0.002	110	< 0.001	6	0.091	7.8	0.8	5	0.042	
742408 Orig																		0.001	3	0.091	5.5	0.5	5	0.031
742408 Dup																		0.001	3	0.091	5.3	0.5	5	0.032
742409 Orig																								
742409 Dup																								
742418 Orig	< 0.001	0.09	< 30	2.1	< 50	< 40	250	< 20	0.3	< 50	< 100	110	< 50	20	0.017	80	0.001	2	0.082	10.9	0.4	5	0.042	
742418 Split PREP DUP	< 0.001	0.10	< 30	2.3	< 50	< 40	250	< 20	0.3	< 50	< 100	110	< 50	20	0.018	90	0.001	2	0.091	11.3	0.4	5	0.045	
742419 Orig	< 0.001	0.06	< 30	0.2	< 50	< 40	250	< 20	0.2	< 50	< 100	80	< 50	10	0.031	60								
742419 Dup	< 0.001	0.05	< 30	0.2	< 50	< 40	260	< 20	0.2	< 50	< 100	60	< 50	10	0.031	60								
742421 Orig																		0.003	< 1	0.055	8.0	0.3	3	0.043
742421 Dup																		0.003	< 1	0.055	7.5	0.3	3	0.042
742429 Orig																								
742429 Dup																								
742433 Orig	0.001	0.09	< 30	0.5	< 50	< 40	460	< 20	0.3	< 50	< 100	110	< 50	20	0.063	60								
742433 Dup	< 0.001	0.10	< 30	0.5	< 50	< 40	490	20	0.3	< 50	< 100	110	< 50	20	0.063	60								
742444 Orig																		0.119	< 1	0.064	6.4	0.4	2	0.093
742444 Dup																		0.125	< 1	0.064	6.8	0.4	1	0.094
742458 Orig	< 0.001	0.07	370	0.4	< 50	< 40	370	< 20	0.3	< 50	< 100	110	< 50	10	0.279	70	0.124	< 1	0.064	6.7	0.3	< 1	0.083	
742458 Dup	< 0.001	0.06	370	0.4	< 50	< 40	370	< 20	0.3	< 50	< 100	110	< 50	10	0.283	70	0.125	< 1	0.064	6.9	0.3	2	0.081	
742465 Orig																								
742465 Dup																								
742468 Orig	< 0.001	0.06	< 30	0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	110	< 50	10	0.019	70	0.041	< 1	0.060	6.4	0.3	7	0.056	
742468 Split PREP DUP	< 0.001	0.06	< 30	0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	100	< 50	10	0.018	70	0.041	< 1	0.060	6.2	0.4	6	0.063	
742470 Orig																		0.093	< 1	0.050	6.1	0.3	3	0.201
742470 Dup																		0.095	< 1	0.050	6.3	0.3	4	0.215
742471 Orig	< 0.001	0.06	< 30	< 0.1	< 50	< 40	370	20	0.3	< 50	< 100	110	< 50	10	0.011	70								
742471 Dup	< 0.001	0.06	< 30	< 0.1	< 50	< 40	370	< 20	0.3	< 50	< 100	110	< 50	10	0.012	70								
742477 Orig																		0.080	< 1	0.064	7.4	0.4	2	0.054
742477 Dup																		0.086	< 1	0.064	7.7	0.4	3	0.054
742484 Orig																		0.010	< 1	0.055	5.9	0.4	2	0.075
742484 Dup																		0.010	< 1	0.055	6.2	0.4	< 1	0.080
742496 Orig	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	110	< 20	0.1	< 50	< 100	< 20	< 50	30	0.004	180								
742496 Dup	< 0.001	< 0.01	< 30	< 0.1	< 50	< 40	110	< 20	< 0.1	< 50	< 100	< 20	< 50	30	0.004	160								
742500D Orig																		0.014	< 1	< 0.001	5.4	2.0	1	0.210
742500D Dup																		0.013	< 1	< 0.001	5.2	2.0	2	0.201
718914 Orig																		0.022	2	0.055	6.4	0.4	1	0.062
718914 Dup																		0.022	2	0.055	6.5	0.5	1	0.062

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Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm												
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS																						
GXR-1 Meas	0.16	0.56	0.03	1350	0.81	1.2	68	5	855	22.8	7.4	34.8	1060	720	4.53		367	2.1	152	23.3	12.6	< 0.1	16.5
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0
GXR-1 Meas	0.16	0.65	0.04	1300	0.89	1.3	75	6	878	25.0	7.1	35.6	1050	767	6.02		364	2.4	174	23.5	12.9	< 0.1	15.6
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0
GXR-1 Meas	0.16	0.64	0.04	1450	0.88	1.2	74	6	900	23.7	7.5	36.8	1060	758	5.65		382	2.1	169	23.3	13.1	< 0.1	16.5
GXR-1 Cert	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0
GXR-4 Meas	1.56	2.59	1.58	20.4	0.80	7.2	78	54	145	3.10	15.2	38.8	6630	71.2	9.96		102	91.1	64.8	11.2	8.1	0.3	332
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310
GXR-4 Meas	1.53	2.66	1.65	19.0	0.80	6.5	81	55	138	3.09	13.8	38.8	6180	59.3	10.5		93.1	99.7	70.2	11.1	8.7	0.3	297
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310
GXR-4 Meas	1.46	2.68	1.69	20.8	0.83	6.9	82	57	141	3.02	14.1	39.3	6410	74.9	10.8		103	90.2	70.3	11.2	8.9	0.2	321
GXR-4 Cert	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0		98.0	160	221	14.0	186	10.0	310
GXR-6 Meas	0.40	6.82	1.04	0.16	0.17	21.5	157	73	1030	5.26	13.1	21.6	62.9	113	13.6		203	59.4	33.8	6.23	8.8	< 0.1	1.57
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40
GXR-6 Meas	0.39	7.67	1.22	0.18	0.19	24.2	170	82	1110	6.02	12.8	25.5	67.0	125	14.6		201	72.0	38.4	6.67	6.3	< 0.1	1.57
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40
GXR-6 Meas	0.38	7.41	1.19	0.18	0.19	23.7	167	81	1120	5.68	13.2	26.4	65.6	124	13.6		208	61.6	36.9	6.54	6.3	< 0.1	1.54
GXR-6 Cert	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40
MP-1b Meas																							
MP-1b Cert																							
MP-1b Meas																							
MP-1b Cert																							
PK2 Meas																							
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SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay																							

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm													
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01	
Method Code	AR-MS																							
Kamloops (%) Meas																								
SBC-1 1F2-assay Kamloops (%) Cert																								
SBC-1 1F2-assay Kamloops (%) Meas																								
SBC-1 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-4 1F2-assay Kamloops (%) Meas																								
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GXR-4 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
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OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas																								
GBW 07238																								

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm													
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.1	0.01	
Method Code	AR-MS																							
1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas																								
GBW 07238 1F2-assay Kamloops (%) Cert																								
GBW 07239 1F2-assay Kamloops (%) Meas																								
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GBW 07239 1F2-assay Kamloops (%) Cert																								
OREAS 922 (AQUA REGIA) Meas	1.25	2.77	0.44	9.15	0.37	3.8	31	45	758	5.34	17.7	34.2	2100	256	7.70	0.1	5.6	27.5	14.6	17.8	17.7	0.8	0.69	
OREAS 922 (AQUA REGIA) Cert	1.33	2.72	0.376	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	
OREAS 922 (AQUA REGIA) Meas	1.23	2.70	0.42	9.96	0.36	3.6	30	44	758	4.96	18.2	35.3	2100	252	7.37	0.1	5.5	23.2	14.1	17.4	17.3	0.8	0.61	
OREAS 922 (AQUA REGIA) Cert	1.33	2.72	0.376	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	
OREAS 923 (AQUA REGIA) Meas	1.46	2.85	0.37	20.9	0.39	3.8	32	43	910	6.19	23.6	34.7	4470	341	7.62		7.5	23.0	13.2	17.7	30.4		0.81	
OREAS 923 (AQUA REGIA) Cert	1.43	2.80	0.322	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	
OREAS 923 (AQUA REGIA) Meas	1.37	2.95	0.41	23.6	0.40	3.9	33	43	898	6.34	20.5	32.7	4170	342	8.20		7.1	26.6	13.7	18.0	31.5		0.84	
OREAS 923 (AQUA REGIA)	1.43	2.80	0.322	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS												
Cert																							
OREAS 923 (AQUA REGIA) Meas	1.36	2.85	0.39	26.5	0.39	3.8	32	42	909	5.94	21.3	33.5	4190	339	7.95		7.4	22.9	13.5	17.8	31.2		0.79
OREAS 923 (AQUA REGIA) Cert	1.43	2.80	0.322	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84
SdAR-M2 (U.S.G.S.) Meas				1.12		2.1	16	7			13.1	47.1	248	778	3.07			17.3	18.5	15.9	5.4	2.2	13.3
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3
SdAR-M2 (U.S.G.S.) Meas				1.04		2.3	17	9			12.0	45.9	237	805	3.40			20.2	20.4	16.1	5.8	2.4	12.1
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3
SdAR-M2 (U.S.G.S.) Meas				1.13		2.2	17	9			12.7	48.7	246	813	3.31			17.6	20.1	16.1	5.6	2.5	12.8
SdAR-M2 (U.S.G.S.) Cert				1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3
CCU-1e Meas																							
CCU-1e Cert																							
CCU-1e Meas																							
CCU-1e Cert																							
CDN-PGMS-28 Meas																							
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CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
742373 Orig																							
742373 Dup																							
742381 Orig	0.85	2.42	0.40	1.13	0.57	4.0	38	< 1	299	5.23	8.5	1.5	7.75	34.1	5.50	< 0.1	16.1	10.5	40.4	6.75	5.6	< 0.1	1.60
742381 Dup	0.83	2.36	0.39	1.10	0.56	3.9	38	< 1	296	5.19	8.5	1.6	7.36	34.4	5.41	< 0.1	16.1	10.5	40.3	6.68	5.7	< 0.1	1.61

Analyte Symbol	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	
Unit Symbol	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.01	0.01	0.01	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS														
742394 Orig																								
742394 Dup																								
742395 Orig	0.24	1.59	0.38	2.15	3.48	3.1	24	< 1	41	2.91	7.1	1.9	9.02	12.3	3.45	< 0.1	10.7	9.3	216	3.79	4.5	< 0.1	1.62	
742395 Dup	0.23	1.59	0.38	2.12	3.37	3.1	24	< 1	41	2.88	7.1	1.8	8.79	13.0	3.54	< 0.1	10.8	9.8	223	3.87	4.4	< 0.1	1.57	
742408 Orig	0.37	1.43	0.50	0.76	1.55	3.9	40	3	555	2.82	8.9	4.0	16.2	69.2	4.21	< 0.1	5.3	11.7	259	5.71	3.9	< 0.1	3.17	
742408 Dup	0.37	1.48	0.52	0.73	1.52	3.8	40	2	545	2.77	8.7	3.6	16.0	69.1	4.28	< 0.1	5.2	12.2	254	5.63	3.7	< 0.1	2.91	
742409 Orig																								
742409 Dup																								
742418 Orig	0.63	2.00	0.63	0.62	3.06	3.9	41	< 1	1890	3.63	8.9	2.0	59.1	153	6.22	< 0.1	17.7	21.3	84.3	10.1	7.0	< 0.1	4.64	
742418 Split PREP DUP	0.65	2.17	0.70	0.64	2.95	4.1	45	< 1	1860	3.78	9.3	2.0	55.8	158	6.72	< 0.1	16.9	23.9	86.2	10.3	7.9	< 0.1	5.17	
742419 Orig																								
742419 Dup																								
742421 Orig	0.80	1.65	0.38	0.24	2.45	3.6	44	4	1970	2.66	8.1	3.2	81.7	240	4.41	< 0.1	4.9	10.9	156	7.24	5.8	< 0.1	1.77	
742421 Dup	0.77	1.63	0.38	0.22	2.37	3.5	43	3	1920	2.57	7.8	3.3	77.8	220	4.67	< 0.1	4.8	10.8	158	7.10	4.9	< 0.1	1.66	
742429 Orig																								
742429 Dup																								
742433 Orig																								
742433 Dup																								
742444 Orig	0.99	2.07	0.26	0.27	1.98	6.0	67	6	1840	3.15	8.7	3.4	50.4	129	7.29	< 0.1	1.4	7.6	185	7.45	11.3	0.1	2.28	
742444 Dup	1.02	2.15	0.28	0.26	2.07	6.3	71	5	1930	3.28	9.1	3.2	53.8	133	7.70	0.1	1.4	8.0	197	7.88	12.2	0.2	2.27	
742458 Orig	1.00	1.68	0.16	1.06	1.69	5.9	74	11	2060	3.23	8.8	3.3	184	2770	7.02	< 0.1	1.4	4.4	104	6.48	14.8	0.2	2.53	
742458 Dup	1.02	1.70	0.17	1.08	1.71	5.9	74	14	2110	3.26	9.0	3.6	188	2770	7.05	< 0.1	1.3	4.4	103	6.59	15.4	0.2	2.69	
742465 Orig																								
742465 Dup																								
742468 Orig	0.99	1.80	0.19	0.18	1.95	4.0	57	10	1860	3.02	10.1	3.6	93.0	149	5.77	< 0.1	0.5	5.0	130	7.02	0.7	< 0.1	2.18	
742468 Split PREP DUP	0.99	1.83	0.21	0.19	1.97	4.1	57	7	1840	2.93	9.9	2.8	98.2	145	6.01	< 0.1	0.6	5.5	133	7.11	1.4	< 0.1	1.93	
742470 Orig	1.40	2.61	0.40	0.39	1.31	6.3	146	27	279	3.36	11.6	13.9	1730	236	7.22	< 0.1	28.5	18.7	39.5	9.86	3.4	< 0.1	57.7	
742470 Dup	1.44	2.73	0.42	0.41	1.35	6.6	150	28	280	3.46	11.9	14.5	1770	238	7.51	< 0.1	29.2	19.6	41.1	10.2	3.1	< 0.1	59.6	
742471 Orig																								
742471 Dup																								
742477 Orig	0.92	1.68	0.21	0.20	2.02	4.3	47	6	1700	2.56	7.4	3.2	46.2	108	5.38	< 0.1	1.1	7.1	149	6.80	9.8	< 0.1	2.59	
742477 Dup	0.94	1.76	0.22	0.20	2.07	4.5	49	8	1770	2.68	7.8	3.2	48.3	110	5.68	< 0.1	1.1	7.4	156	7.20	9.1	< 0.1	2.72	
742484 Orig	0.80	1.66	0.31	0.14	2.28	4.6	48	6	1590	2.79	7.1	3.7	40.4	157	6.24	< 0.1	1.1	10.2	126	7.83	5.0	< 0.1	2.42	
742484 Dup	0.84	1.75	0.32	0.16	2.40	4.8	50	6	1690	2.95	7.5	3.2	43.2	150	6.15	< 0.1	1.1	10.6	132	8.06	5.3	< 0.1	2.53	
742496 Orig																								
742496 Dup																								
742500D Orig	0.22	0.79	0.14	0.32	1.14	1.1	2	3	721	1.14	0.5	1.2	2.20	105	3.70	0.1	0.8	15.5	123	17.9	31.3	1.1	2.53	
742500D Dup	0.21	0.73	0.14	0.44	1.10	1.2	2	2	690	1.10	0.5	1.2	2.04	108	3.43	0.1	0.9	14.7	118	17.0	29.2	0.9	2.40	
718914 Orig	0.83	1.61	0.31	1.87	0.98	2.5	29	11	2770	3.64	10.3	78.7	102	> 5000	5.34	< 0.1	9.7	13.6	113	8.02	2.0	< 0.1	8.84	
718914 Dup	0.83	1.61	0.31	1.94	0.98	2.4	29	9	2780	3.69	9.3	4.6	102	> 5000	5.42	< 0.1	9.5	13.6	114	8.11	2.0	< 0.1	5.39	
718915 Orig																								

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	28.3	0.67	23.4	70.6	12.8	2.43	164	4.7	9.16	2.53		5.80	2.0	11.7	0.4	3.2	0.6	3.9			0.3	1.8	0.2
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-1 Meas	26.8	0.64	24.7	77.6	13.0	2.48	284	5.3	9.24	2.24		5.67	2.1	12.7	0.4	3.0	0.6	4.0			0.3	1.8	0.2
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-1 Meas	29.9	0.64	24.8	77.8	13.0	2.51	287	5.3	9.63	2.36		6.31	1.9	12.4	0.4	3.1	0.6	4.0			0.3	1.8	0.2
GXR-1 Cert	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280
GXR-4 Meas	2.87	0.21	5.79	3.35	1.02	2.41	34.9	43.3	81.9	< 0.01		34.5	5.4	5.1	1.2	4.4	0.5	2.6			0.1	0.9	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-4 Meas	3.12	0.20	6.05	3.68	0.98	2.40	43.3	51.2	85.7	< 0.01		35.2	5.9	5.6	1.1	4.0	0.4	2.6			0.2	0.9	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-4 Meas	3.24	0.20	9.56	3.52	1.00	2.47	38.9	46.6	84.1	< 0.01		37.5	5.0	5.5	1.2	4.1	0.5	2.6			0.2	0.9	0.1
GXR-4 Cert	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25	0.360	2.60			0.210	1.60	0.170
GXR-6 Meas	0.127	0.06	0.99	1.38	0.05	3.32	1080	10.5	29.1	0.07		10.7	2.2	< 0.1	0.5	2.0	0.2	1.5			0.7	< 0.1	
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	
GXR-6 Meas	0.490	0.06	1.44	1.67	0.04	3.81	1240	12.1	30.0	0.10		11.4	2.4	0.3	0.5	2.0	0.3	1.7			0.7	< 0.1	
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	
GXR-6 Meas	0.410	0.06	1.36	1.60	0.04	3.64	1190	11.6	30.5	0.11		12.2	2.2	0.3	0.5	1.9	0.3	1.7			0.7	< 0.1	
GXR-6 Cert	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	
MP-1b Meas																							
MP-1b Cert																							
MP-1b Meas																							
MP-1b Cert																							
PK2 Meas																							
PK2 Cert																							
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PK2 Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							
GXR-4 1F2-assay Kamloops (%) Cert																							
GXR-4 1F2-assay Kamloops (%) Meas																							
GXR-4 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238																							

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Method Code	AR-MS																						
1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas	0.440	0.23	3.95	0.57		1.72	83.5	36.5	63.0	0.28	7.6	28.5	5.4	2.6		4.5	0.6						
OREAS 922 (AQUA REGIA) Cert	0.851	0.24	3.83	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62						
OREAS 922 (AQUA REGIA) Meas	0.380	0.23	3.85	0.53		1.73	84.4	36.0	65.8	0.30	7.6	31.5	5.0	2.5		4.6	0.6						
OREAS 922 (AQUA REGIA) Cert	0.851	0.24	3.83	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62						
OREAS 923 (AQUA REGIA) Meas	1.84	0.45	6.62	0.57		1.54	59.7	32.2	62.4	0.43	7.8	27.8	5.0	5.8		4.6	0.6						
OREAS 923 (AQUA REGIA) Cert	1.62	0.45	5.99	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						
OREAS 923 (AQUA REGIA) Meas	1.77	0.42	7.16	0.65		1.70	73.1	34.8	59.9	0.44	7.4	27.6	5.4	5.7		4.5	0.6						
OREAS 923 (AQUA REGIA)	1.62	0.45	5.99	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm																						
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
Cert																							
OREAS 923 (AQUA REGIA) Meas	1.90	0.43	6.93	0.65		1.71	74.3	34.5	63.1	0.37	7.3	30.3	4.9	6.0		4.6	0.6						
OREAS 923 (AQUA REGIA) Cert	1.62	0.45	5.99	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						
SdAR-M2 (U.S.G.S.) Meas						0.77	115	39.7	84.2	5.24	9.8	35.0	5.8		0.6	4.9	0.6	3.5	0.6	1.9	0.2	1.6	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
SdAR-M2 (U.S.G.S.) Meas						0.84	125	43.9	83.7	5.11	9.4	34.3	6.1		0.5	4.6	0.6	3.7	0.6	1.9	0.3	1.6	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
SdAR-M2 (U.S.G.S.) Meas						0.84	125	43.5	87.0	5.26	9.4	37.9	5.7		0.6	4.7	0.6	3.7	0.6	1.9	0.3	1.6	0.2
SdAR-M2 (U.S.G.S.) Cert						1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54
CCU-1e Meas																							
CCU-1e Cert																							
CCU-1e Meas																							
CCU-1e Cert																							
CDN-PGMS-28 Meas																							
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CDN-PGMS-28 Meas																							
CDN-PGMS-28 Cert																							
742373 Orig																							
742373 Dup																							
742381 Orig	0.078	0.03	0.24	0.36	1.40	1.22	8.6	8.9	19.5	0.10	2.6	13.1	2.6	1.3	0.7	2.6	0.3	1.8	0.3	0.8	0.1	0.6	< 0.1
742381 Dup	0.073	0.03	0.27	0.41	1.46	1.25	8.4	9.0	19.5	0.11	2.6	12.9	2.6	1.6	0.6	2.6	0.3	1.8	0.3	0.8	0.1	0.6	< 0.1

Analyte Symbol	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
742394 Orig																								
742394 Dup																								
742395 Orig	0.054	< 0.02	0.20	0.56	2.31	0.96	13.4	< 0.5	1.22	0.09	0.2	1.38	0.8	1.0	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	
742395 Dup	0.086	< 0.02	0.28	0.59	2.43	1.00	13.9	< 0.5	1.18	0.12	0.2	1.39	0.7	1.0	0.3	1.3	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	
742408 Orig	0.514	0.02	0.40	0.42	1.19	1.35	17.5	6.0	12.8	0.21	1.7	8.37	1.9	0.6	0.6	2.2	0.3	1.5	0.2	0.6	< 0.1	0.5	< 0.1	
742408 Dup	0.795	0.02	0.40	0.37	1.36	1.27	15.3	5.7	12.1	0.22	1.6	8.10	1.8	0.7	0.6	2.2	0.3	1.5	0.2	0.6	< 0.1	0.5	< 0.1	
742409 Orig																								
742409 Dup																								
742418 Orig	0.455	0.05	0.24	0.51	0.26	1.94	16.3	12.6	23.9	0.45	2.9	13.5	2.5	0.7	0.7	2.6	0.3	2.1	0.4	1.2	0.2	1.0	0.1	
742418 Split PREP DUP	0.505	0.05	0.35	0.54	0.25	2.11	16.8	12.7	24.1	0.48	3.0	13.9	2.5	0.5	0.7	2.6	0.3	2.1	0.4	1.2	0.2	1.0	0.2	
742419 Orig																								
742419 Dup																								
742421 Orig	0.325	0.02	0.50	0.19	0.18	0.85	388	13.3	22.8	0.41	2.6	11.0	1.8	0.2	0.5	1.8	0.2	1.4	0.3	0.8	0.1	0.8	0.1	
742421 Dup	0.265	0.02	0.16	0.15	0.17	0.79	254	12.8	22.1	0.42	2.5	10.8	1.8	0.3	0.5	1.7	0.2	1.4	0.3	0.8	0.1	0.8	0.1	
742429 Orig																								
742429 Dup																								
742433 Orig																								
742433 Dup																								
742444 Orig	0.146	0.03	0.67	0.83	0.06	0.34	481	11.6	18.9	0.07	2.2	8.49	1.8	0.1	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1	
742444 Dup	0.137	0.03	0.82	0.83	0.06	0.34	475	12.3	19.6	0.07	2.3	8.87	1.9	0.4	0.5	1.7	0.2	1.5	0.3	0.9	0.1	0.8	0.1	
742458 Orig	1.13	0.02	0.69	0.42	0.81	0.17	152	9.6	15.5	20.4	1.8	7.19	1.5	0.5	0.4	1.4	0.2	1.3	0.2	0.8	0.1	0.7	0.1	
742458 Dup	1.38	0.02	0.72	0.42	0.85	0.18	161	9.6	15.6	20.8	1.9	7.12	1.5	0.5	0.4	1.4	0.2	1.3	0.2	0.8	0.1	0.7	0.1	
742465 Orig																								
742465 Dup																								
742468 Orig	0.022	0.03	0.37	0.56	0.06	0.25	398	10.5	19.7	0.04	2.3	8.95	1.7	0.2	0.5	1.6	0.2	1.4	0.3	0.9	0.1	0.8	0.1	
742468 Split PREP DUP	0.014	0.03	0.38	0.48	0.05	0.25	313	10.4	19.6	0.04	2.3	9.02	1.8	0.2	0.5	1.7	0.2	1.4	0.3	0.8	0.1	0.9	0.1	
742470 Orig	0.688	0.06	0.94	0.62	0.08	1.04	54.6	6.9	15.6	0.52	2.1	9.25	2.0	3.2	0.5	2.1	0.3	1.9	0.4	1.1	0.1	1.0	0.1	
742470 Dup	0.767	0.07	1.28	0.58	0.07	1.11	53.0	7.1	16.0	0.57	2.2	9.57	2.1	3.4	0.5	2.2	0.3	2.0	0.4	1.1	0.2	1.0	0.1	
742471 Orig																								
742471 Dup																								
742477 Orig	0.104	0.02	0.35	0.46	0.10	0.38	441	10.4	18.3	0.02	2.2	8.09	1.6	< 0.1	0.4	1.7	0.2	1.3	0.2	0.7	0.1	0.7	< 0.1	
742477 Dup	0.119	0.02	0.39	0.48	0.09	0.39	439	11.1	19.5	0.02	2.4	8.73	1.6	< 0.1	0.4	1.7	0.2	1.4	0.3	0.8	0.1	0.7	< 0.1	
742484 Orig	0.192	0.02	0.75	0.46	0.06	0.55	436	13.8	21.6	0.11	2.5	9.70	2.0	0.3	0.5	1.9	0.2	1.5	0.3	0.9	0.1	0.8	0.1	
742484 Dup	0.111	0.02	0.60	0.50	0.06	0.59	491	14.5	23.2	0.12	2.7	10.3	2.2	0.2	0.6	2.0	0.3	1.6	0.3	1.0	0.1	0.8	0.1	
742496 Orig																								
742496 Dup																								
742500D Orig	0.234	0.03	1.84	0.11	< 0.02	0.20	14.5	99.4	156	0.40	16.1	49.7	7.5	0.7	0.5	5.4	0.6	3.8	0.6	1.9	0.2	1.6	0.2	
742500D Dup	0.147	0.03	1.76	0.11	< 0.02	0.19	14.0	95.7	149	0.41	15.4	47.7	7.3	0.5	0.5	5.1	0.6	3.6	0.6	1.8	0.2	1.5	0.2	
718914 Orig	1.03	0.14	0.34	0.43	0.20	0.37	11.0	6.4	12.3	91.7	1.6	6.69	1.5	1.3	0.3	1.4	0.2	1.4	0.3	0.8	0.1	0.9	0.1	
718914 Dup	1.25	0.14	0.46	0.45	0.23	0.38	13.2	6.5	12.6	94.7	1.6	6.94	1.6	0.9	0.3	1.5	0.2	1.5	0.3	0.9	0.1	0.9	0.1	
718915 Orig																								

QC

Activation Laboratories Ltd.

Report: A17-10227

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.3	< 0.05	132		3170	0.36	643	1.7	28.8	3530
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas	0.3	< 0.05	124		3420	0.29	691	1.8	27.8	3860
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas	0.3	< 0.05	135		3300	0.35	666	1.9	28.3	3770
GXR-1 Cert	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-4 Meas	0.2	< 0.05	13.0		45.4	3.19	47.9	17.6	5.2	120
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-4 Meas	0.3	< 0.05	12.3		326	3.08	49.7	16.8	5.0	90
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-4 Meas	0.3	< 0.05	12.0		426	3.27	49.2	17.3	4.9	130
GXR-4 Cert	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-6 Meas	0.2	< 0.05	< 0.1		15.2	1.78	96.3	3.8	0.8	70
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas	< 0.1	< 0.05	< 0.1		57.3	1.67	110	4.1	0.8	60
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas	< 0.1	< 0.05	< 0.1		51.7	2.02	104	4.1	0.8	70
GXR-6 Cert	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
PK2 Meas										
PK2 Cert										
PK2 Meas										
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PK2 Meas										
PK2 Cert										
SDC-1 1F2 Assay (%) Meas										
SDC-1 1F2 Assay (%) Cert										
SDC-1 1F2 Assay (%) Meas										
SDC-1 1F2 Assay (%) Cert										
SBC-1 1F2-assay										

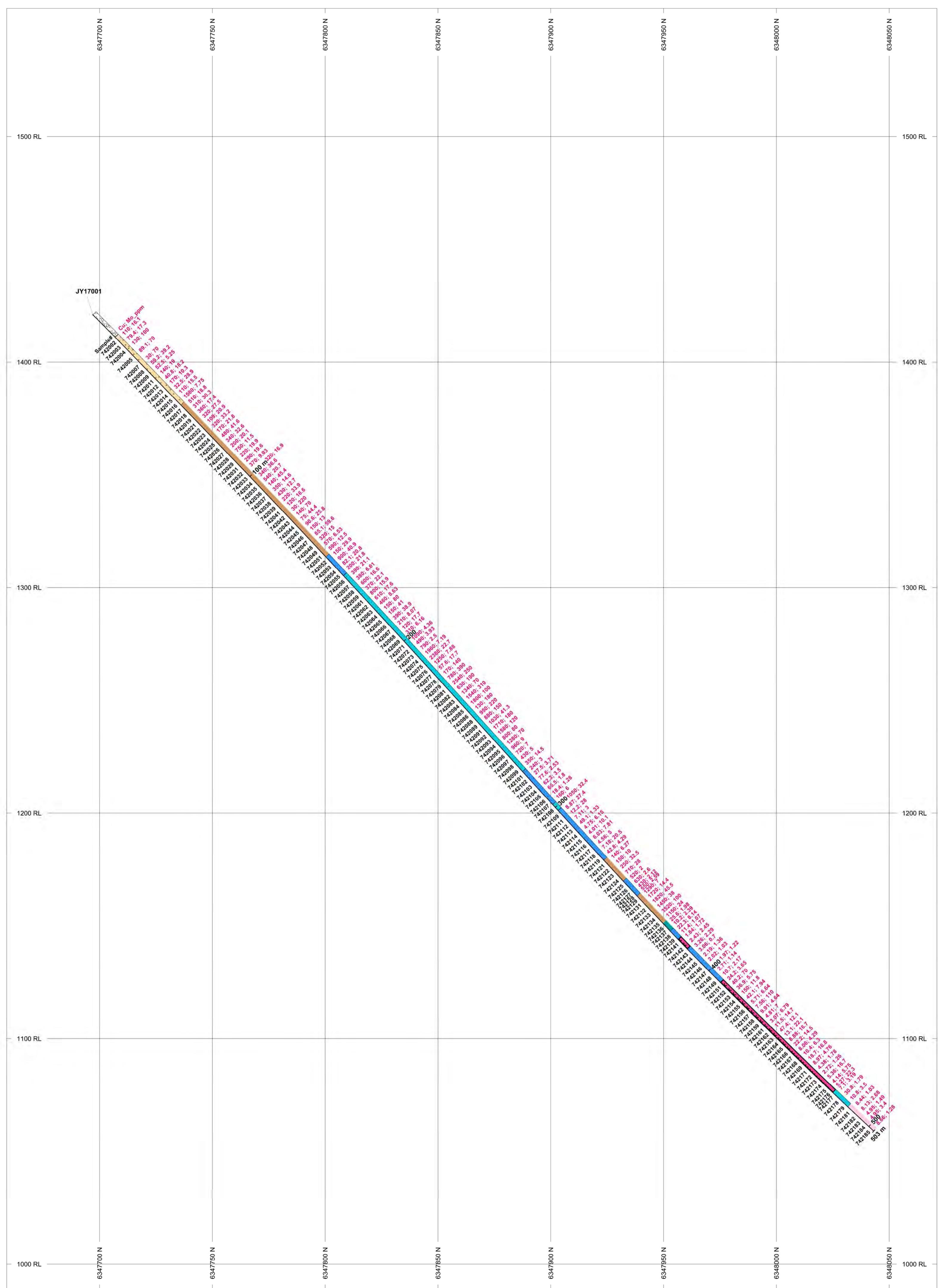
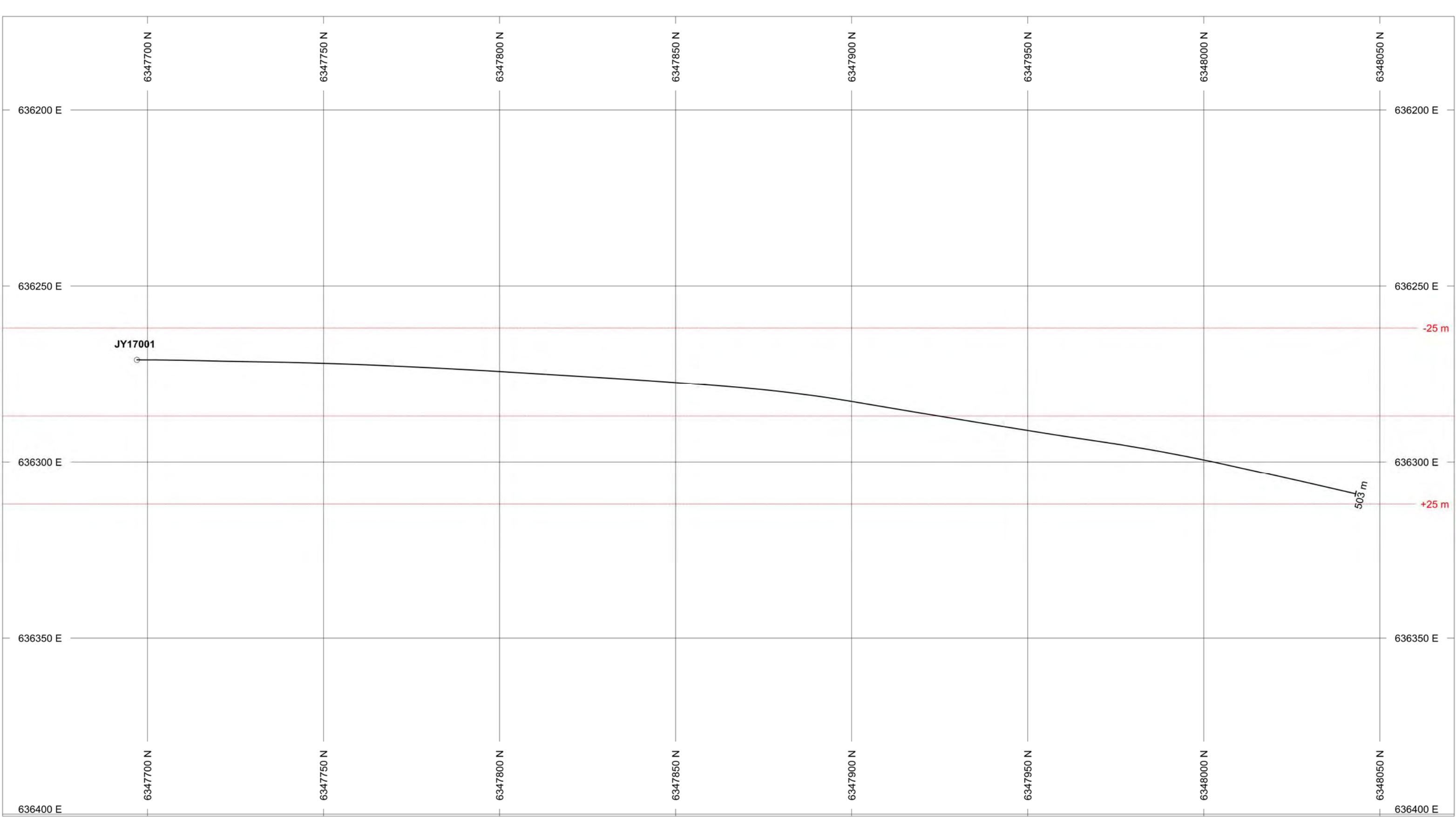
Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS									
Kamloops (%) Meas										
SBC-1 1F2-assay Kamloops (%) Cert										
SBC-1 1F2-assay Kamloops (%) Meas										
SBC-1 1F2-assay Kamloops (%) Cert										
GXR-6 1F2-assay Kamloops (%) Meas										
GXR-6 1F2-assay Kamloops (%) Cert										
GXR-4 1F2-assay Kamloops (%) Meas										
GXR-4 1F2-assay Kamloops (%) Cert										
GXR-4 1F2-assay Kamloops (%) Meas										
GXR-4 1F2-assay Kamloops (%) Cert										
OREAS 14P 1F2-assay Kamloops (%) Meas										
OREAS 14P 1F2-assay Kamloops (%) Cert										
OREAS 14P 1F2-assay Kamloops (%) Meas										
OREAS 14P 1F2-assay Kamloops (%) Cert										
GBW 07238 1F2-assay Kamloops (%) Meas										
GBW 07238										

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS									
1F2-assay Kamloops (%) Cert										
GBW 07238 1F2-assay Kamloops (%) Meas										
GBW 07238 1F2-assay Kamloops (%) Cert										
GBW 07239 1F2-assay Kamloops (%) Meas										
GBW 07239 1F2-assay Kamloops (%) Cert										
GBW 07239 1F2-assay Kamloops (%) Meas										
GBW 07239 1F2-assay Kamloops (%) Cert										
GBW 07239 1F2-assay Kamloops (%) Meas										
GBW 07239 1F2-assay Kamloops (%) Cert										
OREAS 922 (AQUA REGIA) Meas	0.4		0.6			0.14	63.4	13.6	2.2	
OREAS 922 (AQUA REGIA) Cert	0.61		1.12			0.14	60	14.5	1.98	
OREAS 922 (AQUA REGIA) Meas	0.4		0.7			0.16	61.7	14.5	2.2	
OREAS 922 (AQUA REGIA) Cert	0.61		1.12			0.14	60	14.5	1.98	
OREAS 923 (AQUA REGIA) Meas	0.6		1.9			0.13	79.8	14.7	2.2	
OREAS 923 (AQUA REGIA) Cert	0.60		1.96			0.12	81	14.3	1.80	
OREAS 923 (AQUA REGIA) Meas	0.7		2.1			0.13	87.6	14.0	2.2	
OREAS 923 (AQUA REGIA)	0.60		1.96			0.12	81	14.3	1.80	

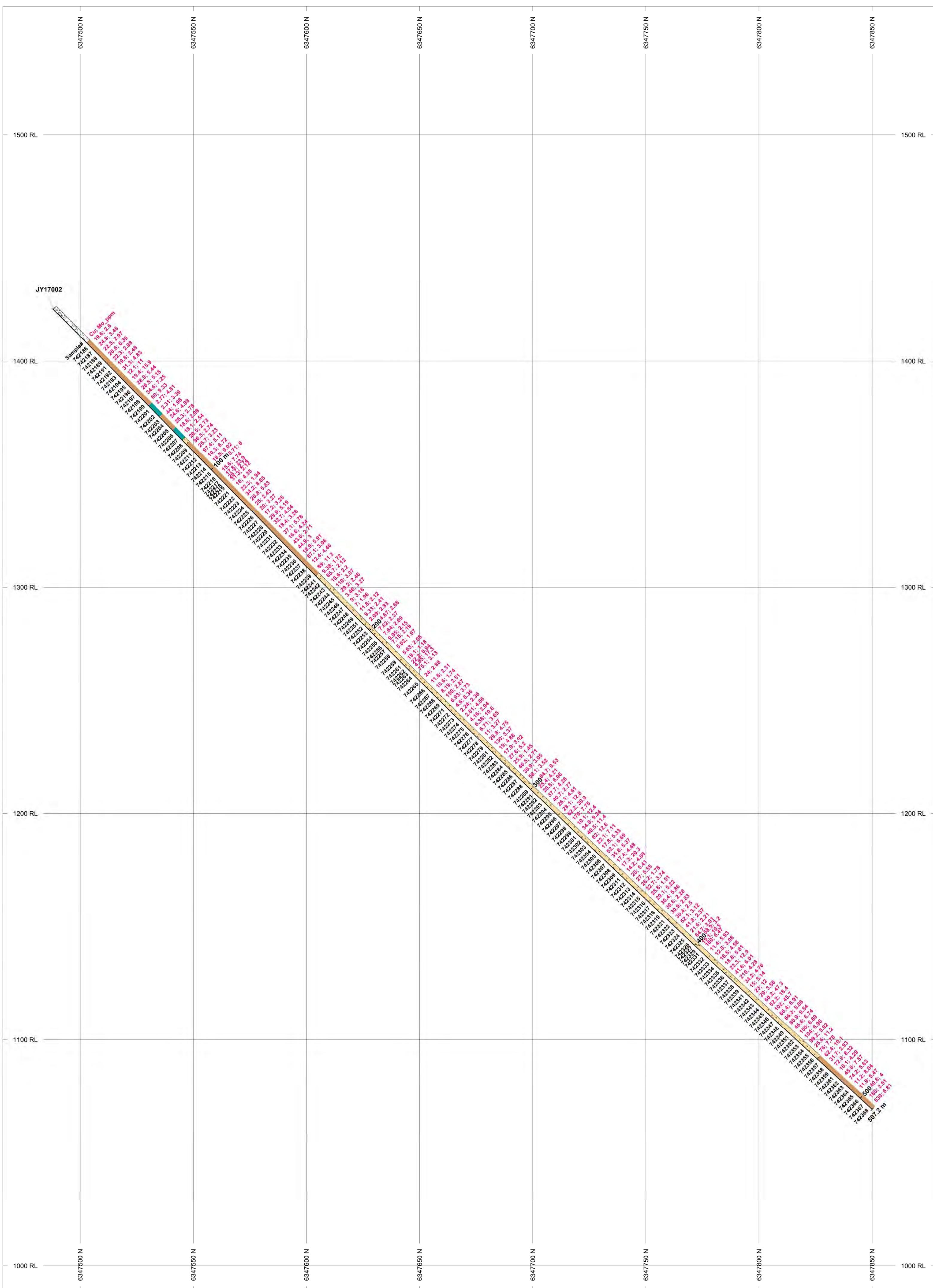
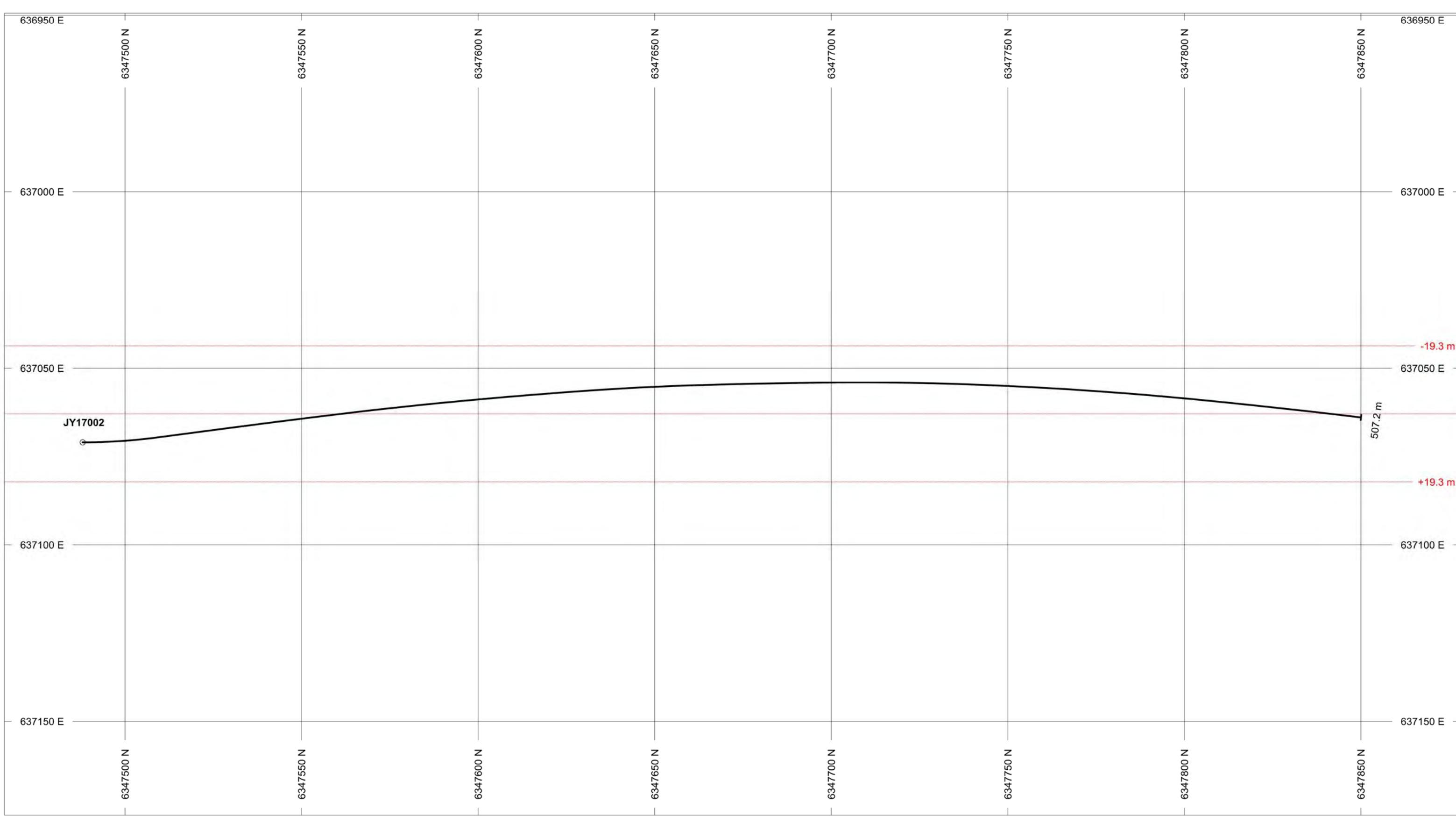
Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Cert										
OREAS 923 (AQUA REGIA) Meas	0.7		2.4			0.16	87.7	15.2	2.3	
OREAS 923 (AQUA REGIA) Cert	0.60		1.96			0.12	81	14.3	1.80	
SdAR-M2 (U.S.G.S.) Meas	0.1	< 0.05	1.2				807	12.0	1.6	1310
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas	0.1	< 0.05	1.0				855	10.9	1.5	1340
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas	0.1	< 0.05	1.2				834	11.8	1.6	1370
SdAR-M2 (U.S.G.S.) Cert	7.29	1.8	2.8				808	14.2	2.53	1440.00
CCU-1e Meas										
CCU-1e Cert										
CCU-1e Meas										
CCU-1e Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
CDN-PGMS-28 Meas										
CDN-PGMS-28 Cert										
742373 Orig										
742373 Dup										
742381 Orig	< 0.1	< 0.05	< 0.1	< 0.001	1.2	0.57	9.56	1.4	0.5	30
742381 Dup	< 0.1	< 0.05	< 0.1	< 0.001	1.1	0.55	9.43	1.4	0.5	20

Analyte Symbol	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
742394 Orig										
742394 Dup										
742395 Orig	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.48	11.6	0.7	0.4	10
742395 Dup	< 0.1	< 0.05	< 0.1	< 0.001	2.1	0.49	13.3	0.7	0.4	10
742408 Orig	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.23	11.3	1.2	0.4	20
742408 Dup	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	0.23	9.86	1.2	0.4	< 10
742409 Orig										
742409 Dup										
742418 Orig	0.1	< 0.05	< 0.1	< 0.001	2.9	0.35	29.1	2.5	1.0	20
742418 Split PREP DUP	0.1	< 0.05	< 0.1	0.001	4.2	0.39	32.3	2.6	1.0	20
742419 Orig										
742419 Dup										
742421 Orig	0.1	< 0.05	< 0.1	< 0.001	2.5	0.11	7.21	3.7	0.9	< 10
742421 Dup	< 0.1	< 0.05	< 0.1	< 0.001	1.9	0.11	6.75	3.5	0.9	< 10
742429 Orig										
742429 Dup										
742433 Orig										
742433 Dup										
742444 Orig	0.3	< 0.05	0.3	< 0.001	3.8	0.07	6.69	3.7	1.6	< 10
742444 Dup	0.3	< 0.05	0.3	< 0.001	2.1	0.07	6.47	3.8	1.6	< 10
742458 Orig	0.4	< 0.05	0.3	< 0.001	4.3	0.02	363	3.3	1.4	< 10
742458 Dup	0.4	< 0.05	0.3	< 0.001	2.9	0.03	365	3.4	1.5	< 10
742465 Orig										
742465 Dup										
742468 Orig	< 0.1	< 0.05	0.2	0.001	1.6	0.03	3.79	4.2	1.2	< 10
742468 Split PREP DUP	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.04	6.97	4.1	1.2	< 10
742470 Orig	< 0.1	< 0.05	0.5	0.173	10.2	0.13	40.4	2.6	0.6	20
742470 Dup	< 0.1	< 0.05	0.5	0.179	14.7	0.14	41.9	2.6	0.6	20
742471 Orig										
742471 Dup										
742477 Orig	0.3	< 0.05	0.2	< 0.001	< 0.5	0.05	4.50	3.8	1.4	< 10
742477 Dup	0.3	< 0.05	0.2	< 0.001	< 0.5	0.05	4.96	4.2	1.5	< 10
742484 Orig	0.1	< 0.05	< 0.1	< 0.001	0.7	0.06	12.5	3.8	1.4	< 10
742484 Dup	0.1	< 0.05	< 0.1	< 0.001	1.5	0.06	13.0	4.1	1.5	< 10
742496 Orig										
742496 Dup										
742500D Orig	1.2	< 0.05	0.4	< 0.001	1.9	0.10	21.0	42.9	6.0	< 10
742500D Dup	1.1	< 0.05	0.4	< 0.001	6.8	0.10	21.0	42.0	5.8	< 10
718914 Orig	< 0.1	< 0.05	0.3	0.004	18.2	0.10	268	1.9	0.7	60
718914 Dup	< 0.1	< 0.05	< 0.1	0.003	21.7	0.11	287	2.0	0.8	80
718915 Orig										

HOLeS PLOTTED
TOTAL 1
JY17001



HOLeS PLOTTED
TOTAL 1
JY17002



ROCK CODES PAT LABEL DESCRIPTION
LITHOCODE IVF1 feldspar porphyritic andesite flows
MDX1 mafic dyke
OVB1 overburden
IVC1 intermediate volcanioclastic rock

POSTED TEXT L/R TEXT ITEMS
Sample L ----- All
Cu_Mo R ----- All

SECTION SPECS:
REF. PT. E, N 637063 m 6347672 m
EXTENTS 412.3 m 567.9 m
SECTION TOP, BOT 1557 m 988.9 m
TOLERANCE +/- 19.3 m

HDI AMARC

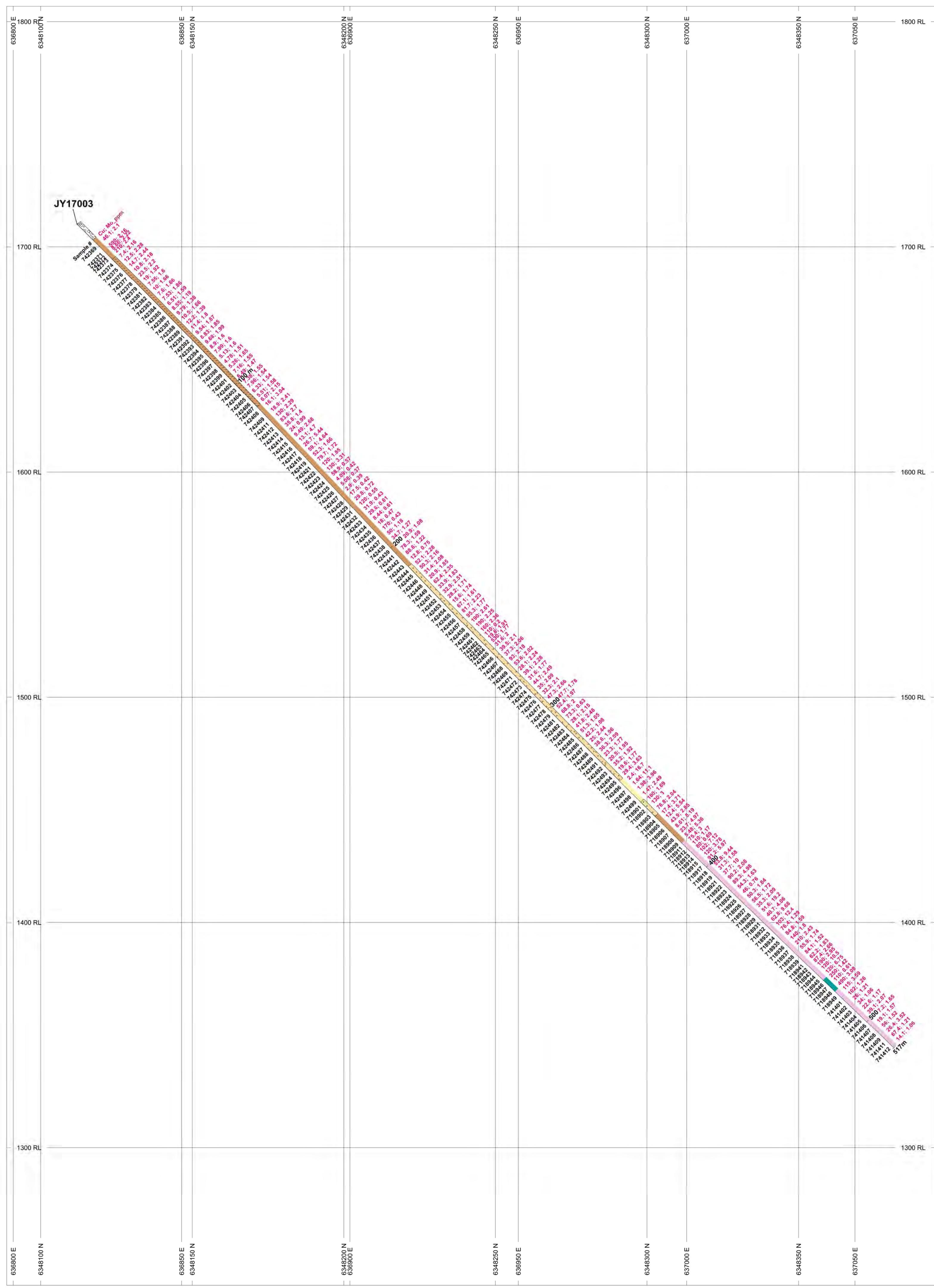
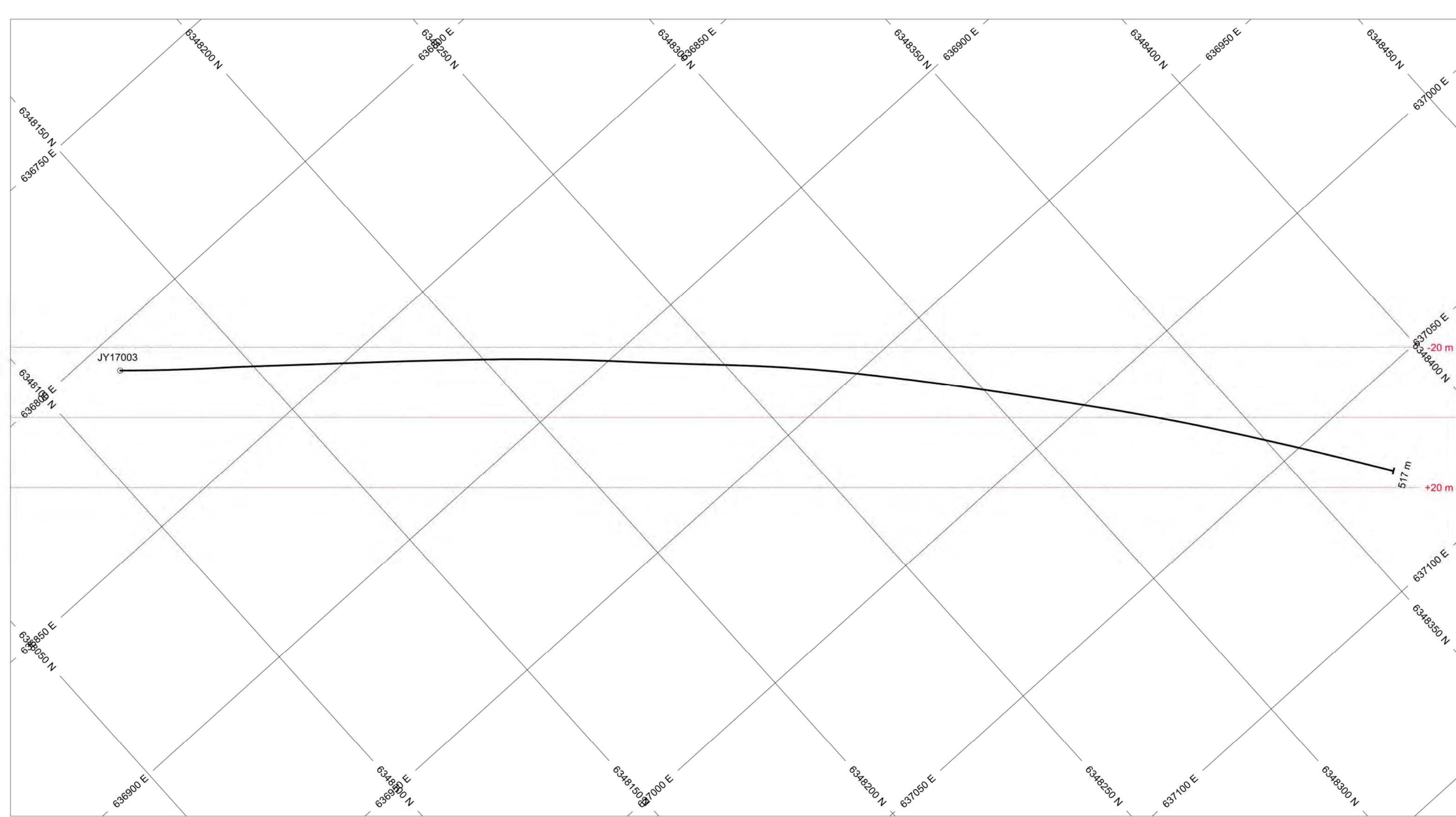
SCALE 1 : 1000
(m)
-10 0 10 20 30 40

AZIMUTH = 0°
N
W E
S

JOY Project

Figure
Diamond Drill Hole JY17002

GEOSOFT\JOY\Sec_JY17002.map Date: 22 January 2018



Appendix D

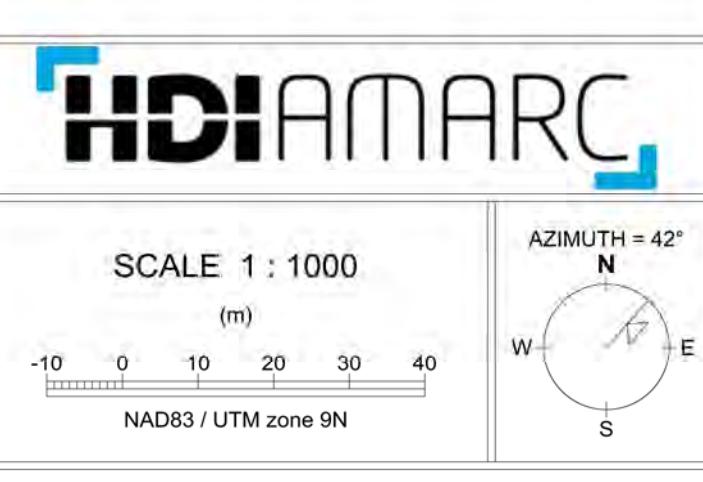
HOLES PLOTTED
TOTAL 1
JY17003

ICK CODES	PAT	LABEL	DESCRIPTION
IOCODE		IVF1	feldspar porphyritic andesite flows
		FVC1	felsic volcaniclastics
		MDX1	mafic dyke
		OVB1	Overburden
		IDP2	porphyritic intrusion (quartz-monzonite)
		IVF2	phyric flows and pyroclastics
		IVC1	intermediate volcaniclastic rock

POSTED TEXT	L/R	TEXT	ITEMS
Sample	L	-----	All
Cu_Mo	R	-----	All

SECTION SPECS:

REF. PT. E, N	636936 m	6348242 m
EXTENTS	412.3 m	567.9 m
SECTION TOP, BOT	1807 m	1239 m
TOLERANCE	+/-	20 m



JOY Project

Figure

Diamond Drill Hole JY17001

**A LOGISTICS REPORT
ON
INDUCED POLARIZATION SURVEYING
JOY PROPERTY
TOODOGGONE AREA, BRITISH COLUMBIA**

**OMINECA M.D.
57° 16.8'N, 126° 44.6'W
NTS 94E/07**

Claims:

522028,522030,522031,522039,522040,522043,

**Work Dates:
July 6th – August 30th, 2017**

**FOR
AMARC RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA
BY
ALEXANDER WALCOTT, B.Sc
PETER E. WALCOTT & ASSOCIATES LIMITED
Coquitlam, British Columbia
JANUARY 2018**

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	, Page
INTRODUCTION.....	3
PROPERTY, LOCATION AND ACCESS.....	4
SURVEY SPECIFICATIONS.....	6

APPENDIX I

Personnel Employed on Project
Equipment Specifications

ACCOMPANYING MAPS

Claim and Line Location Map	Scale 1:20,000
Filtered Plan Map	
Contours of Apparent Chargeability (mV/V)	Scale 1:20,000
Contours of Apparent Resistivity (ohm-m)	
Pseudo-Sections	
635075E, 635470E, 635870E, 635875E, 636070E, 636270E, 636460E, 636475E, 636476E, 637075E	Scale 1:10,000
2D Inverted Sections	
635075E, 635470E, 635870E, 635875E, 636070E, 636270E, 636460E, 636475E, 637075E	Scale 1:10,000
3D Inverted Sections	
635075E, 635470E, 635870E, 635875E, 636070E, 636270E, 636460E, 636475E, 637075E	Scale 1:10,000
3D Inverted Level Plan (South Grid)	Scale 1:10,000
Contours of Modelled Chargeability (mV/V) – 100m, 200m, 300m	
Contour of Modelled Resistivity (ohm-m) - 100m, 200m, 300m	

INTRODUCTION.

Between July 6th and August 30th, 2017 Peter E. Walcott & Associates Limited undertook induced polarization surveying over parts of the Joy property for Amarc Resources Ltd.

The survey consisted of some 47-line kilometers of induced polarization carried out on 8 north-south traverses, with a nominal line spacing between 200-400 meters utilizing a 100 meter a-spacing measuring the 1st to 10th separations. Additional levels were also read.

Survey lines were positioned and established by the geophysical crew with direction from Amarc Resources Ltd. personnel.

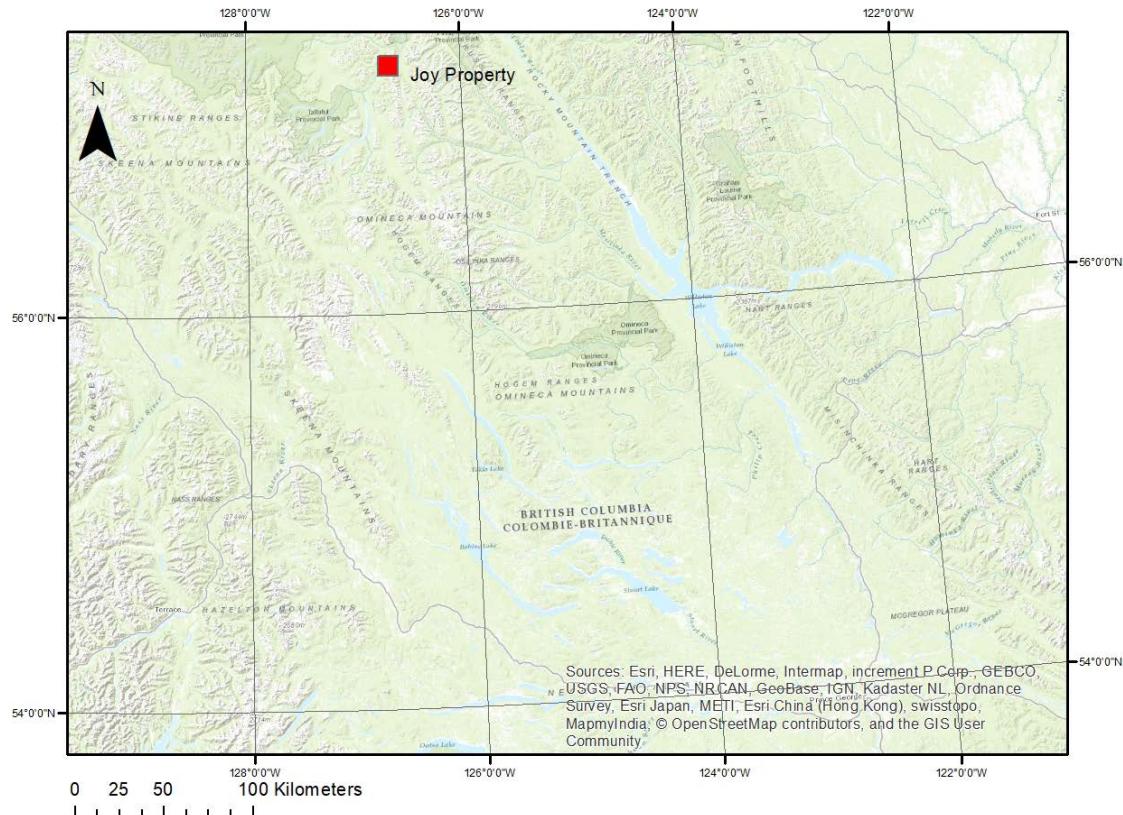
The survey met with several challenges which hampered production due to steepness, thick bush, access issue along with telluric noise.

PROPERTY LOCATION AND ACCESS

The Joy project is located within the Omineca mountains of north-central some 450 kilometres northwest of the Prince George, British Columbia.

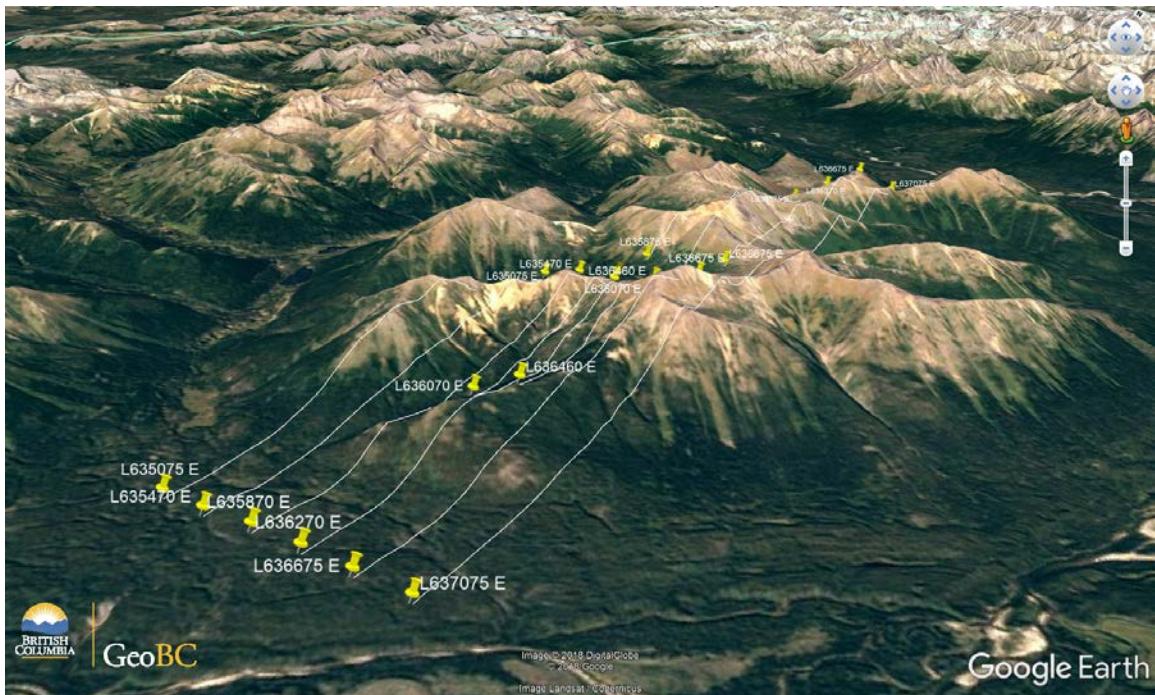
Access to the property can be gained via the Omineca Resource road, then a network of spur roads to the Black Lake Camp, where the crew was house for the duration of the survey. Alternatively, fixed wing service by means of float plane to Black Lake, or wheeled plane to the Sturdee airstrip can utilized from several communities.

Access to the survey area from the Black Lake camp can then be gained by helicopter.



Property Location Map

PROPERTY LOCATION AND ACCESS con't



Line Path in Google Earth

The Induced Polarization Survey.

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Instrumentation GDD of Quebec, Canada and Walcott Geophysics of Enniskillen, Ontario.

The system consists basically of three units, a receiver (GDD), transmitter (Walcer) and a motor generator (Walcer). The transmitter, which provides a maximum of 10.0 kw d.c. to the ground, obtains its power from a 20 kw 400 c.p.s. alternator driven by a Honda 24 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds “current-on” and 2 seconds “current-off” with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2 , the primary voltages (V) appearing between any two potential electrodes, P_1 through P_5 , during the “current-on” part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity (σ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The surveying was carried out using the “pole-dipole” method of survey utilizing a pre-laid receiver array remaining stationary, the current C_1 is moved along the survey lines at a spacing of “ a ” (the dipole) apart, while the second current electrode, C_2 , is kept constant at “infinity”.

The survey utilized up to 4 active receiver arrays, measuring the 1st to 10th separations. Additional separations were also recorded when feasible.

SURVEY SPECIFICATIONS cont'd.

The distance, “na” between C₁ and the nearest potential electrode generally controls the depth to be explored by the particular separation, “n”, traverse. On this survey a 100 metre dipole separation was utilized.

On this survey a total of some 46.6 kilometres of survey traverses were completed.

Two separate infinity locations were used during the survey. Infinity A was used until August 10th,2017 at 632599E, 6340683N. The infinity was then moved for the northern ends of the lines to 636485E, 6344184N where it remained for the duration of the survey.

Horizontal control.

The horizontal positions of the stations were recorded using a Garmin GPSmap 64CSx.

Data Presentation.

The data are presented as individual pseudo section plots of apparent resistivity and apparent chargeability at a scale of 1:10,000 generated using Geosoft Oasis Montaj. In addition, data was subjected to 2D inversion and presented as model sections at a scale of 1:10,000.

Two dimensional smooth model inversion of the resistivity and chargeability was carried out using the Geotomo RES2DINV Algorithm, an algorithm developed by Loke et-al. This algorithm uses a 2-D finite element method and incorporates topography in modelling resistivity and I.P. data. Nearly uniform starting models are generated by running broad moving-average filters over the respective lines of data. Model resistivity and chargeability properties are then adjusted iteratively until the calculated data values match the observed as closely as possible, given constraints which keep the model section smooth. The smooth chargeability and resistivity models were then imported into Geosoft format for presentation at the same scale of 1:10,000 on the topographic profile.

Three dimensional smooth model inversion of the resistivity and chargeability was carried out using the Geotomo RES3DINV Algorithm in the southern portion of the survey area and presented as depth slices at a scale of 1:10,000.

APPENDIX I

PERSONNEL EMPLOYED ON PROJECT.

Name	Occupation	Address	Dates Worked
Peter E. Walcott	Geophysicist	17-111 Fawcett Road, Coquitlam, B.C.	
Alex Walcott	"		
M. Mahfouz	"		Aug 9th-30th, 2017
M. Magee	Geophysical Operator		July 6th-30th, 2017
J. Taylor	"		July 9th-Aug 16th, 2017
O. Kucera	"		July 8th-Aug 8th, 2017
B. Lajeunesse	"		Aug 9th-30th, 2017
S. Makin	Geologist		"
M. Low	"		July 6th-Aug 16th, 2017
J. Kratochril	Geophysical Assistant		July 8th-Aug 8th, 2017
S. Alexander			July 9th-Aug 30th, 2017
R. West			"
C. Dickey			Aug 17th-Aug 30th, 2017
O. David			"
J. Matson			July 6th-Aug 8th, 2017



Resistivity/Induced Polarization (IP) GDD Receivers

These **Receivers** are compact and low power consumption designed for Resistivity and Induced Polarization (IP) surveys. They are rugged and can be used under any field conditions. Our receivers include an optimized noise reduction algorithm. You can also visualize your pseudosection in real time!



GRx8-32



GRx8mini



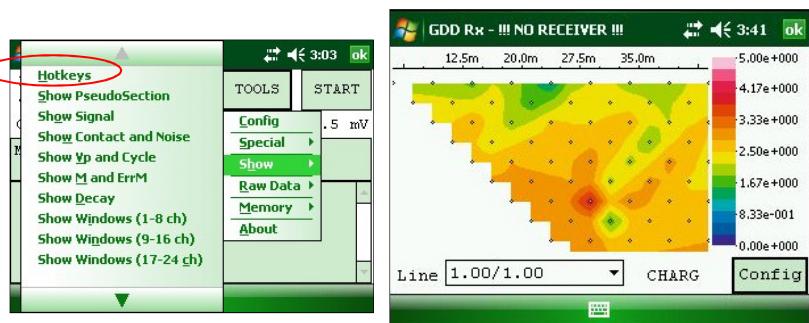
GRx2

SPECIFICATIONS	GRx8-32	GRx8mini	GRx2
DIPOLE NUMBER	Up to 32 dipoles simultaneously	Up to 8 dipoles simultaneously	Up to 2 dipoles simultaneously
TYPE OF SURVEYS	1D - 2D - 3D 4 lines of 8 channels 2 lines of 16 channels 1 line of 32 channels	1D - 2D - 3D 2 lines of 4 channels 1 line of 8 channels	1D - 2D
WEIGHT (Rx only / + Shipping Box)	7 kg / 23 kg	3.1 kg / 16,5 kg	1.6 kg / 7 kg
DIMENSION Rx only Rx / + Shipping Box	42 x 33 x 17 cm 68 x 24 x 40 cm	27 x 25 x 12 cm 53 x 21 x 38 cm	24 x 20 x 11 cm 49 x 18 x 39 cm
PDA	Allegro ² (Juniper Systems Inc.)	Allegro ² or Archer ² (Juniper Systems Inc.)	Archer ² (Juniper Systems Inc.)

Canadian Manufacturer of Geophysical Instrumentation since 1976

Features:

- User friendly and robust;
- New Hotkeys to speed up your entries (Allegro²);
- **Live Pseudosection of Apparent Resistivity and Chargeability during survey acquisition;**
- Applications: mining exploration, groundwater exploration, geotechnical investigations and other related fields;
- Fullwave data.
- All IP receivers come with the GDD Post-Process Software



Visit www.gdd.ca

PURCHASE

Can be shipped anywhere in the world.

RENTAL

Starts on the day the instrument leaves our office in Québec to the day of its return to our office. 50% of the rental fee of the last 4 months of rental can be credited towards the purchase of the rented instrument.

WARRANTY

All instruments are covered by one-year warranty. All repair under warranty will be done free of charge at our office in Québec, Canada. Transportation, taxes and duties are extra, if applicable.



860 boul. de la Chaudière, suite 200
Québec (Québec), Canada G1X 4B7
Tel. : +1(418) 877-4249
Fax: +1(418) 877-4054
Toll Free: +1-877-977-4249 (Canada)
Web: www.gdd.ca
Email: gdd@gdd.ca

SERVICE

If an instrument manufactured by GDD breaks down while under warranty or service contract, it will be replaced free of charge during repairs (upon request and subject to instrument availability).

OTHER COSTS

Shipping, insurances, customs and taxes are extra if applicable.

PAYMENT

Checks, credit cards, money transfer, etc.

Specifications subject to change without notice
Printed in Québec, Canada, 2017



Walcer Model TX KW10



TRANSMITTERS

MOTOR GENERATORS

GEOREELS

SPEEDWINDERS

ELECTRODES

WIRE

RENTALS

MAINTENANCE

CONTACT US

Contact Webmaster at webmaster@walcergeophysics.com

Voltage Input

125V line to neutral

400 Hz / 3 phase

Powered by MG12, MG6 and MG12A

Output

100 - 3200V in 10 steps

0.05 - 20 Amps

Tested to 10.5 kVA

Switching

1 sec., 2 sec., 4 sec., 8 sec.

Metering

LED for line voltage

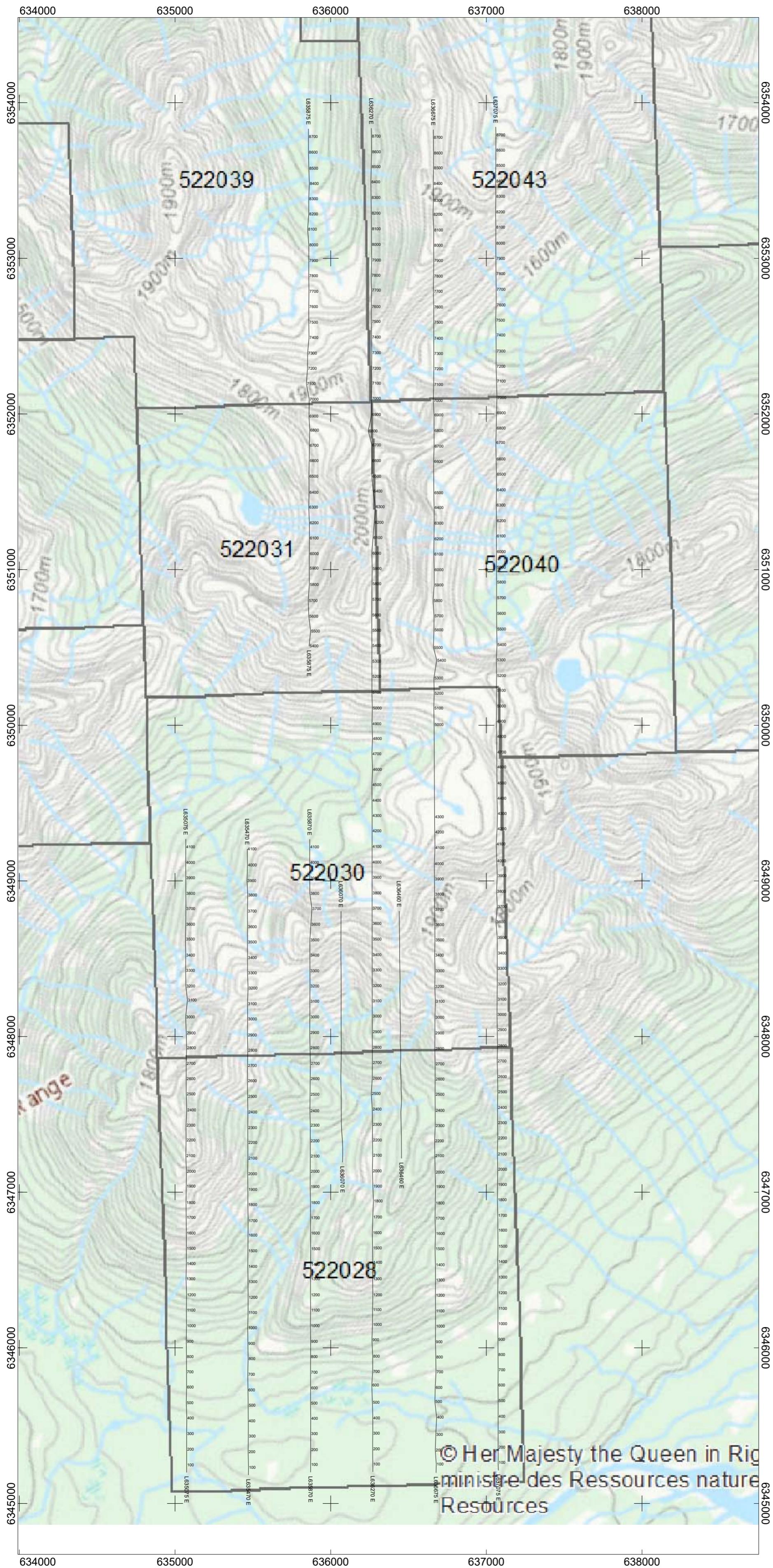
and output current

Size

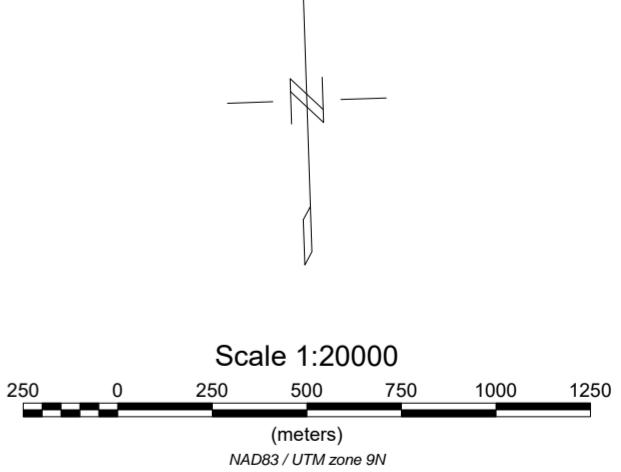
63cm. x 54cm. x 25cm.

Weight

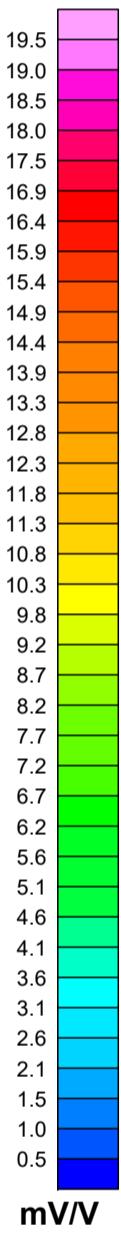
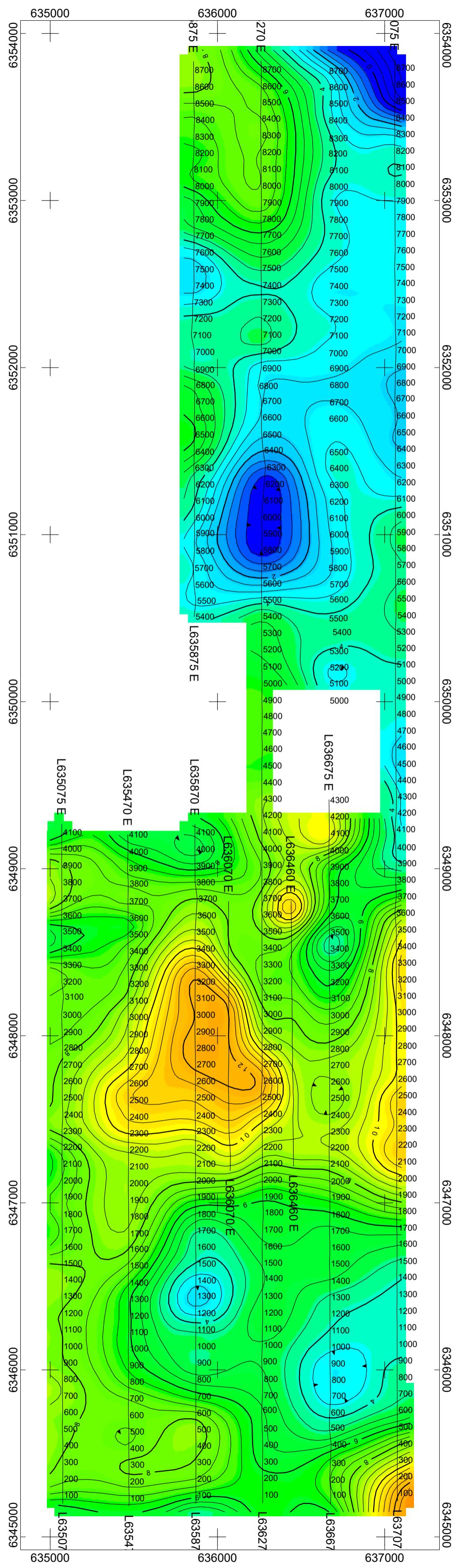
44 kg.



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ministère des Ressources naturelles
Resources



AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY LINE AND CLAIM LOCATION MAP
JOY PROJECT TOODOGGONE AREA, OMINECA M.D. SUMMER 2017
PETER E. WALCOTT & ASSOCIATES LIMITED



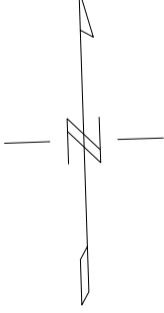
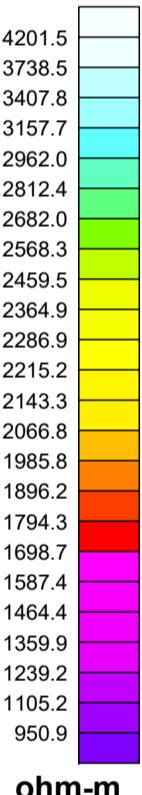
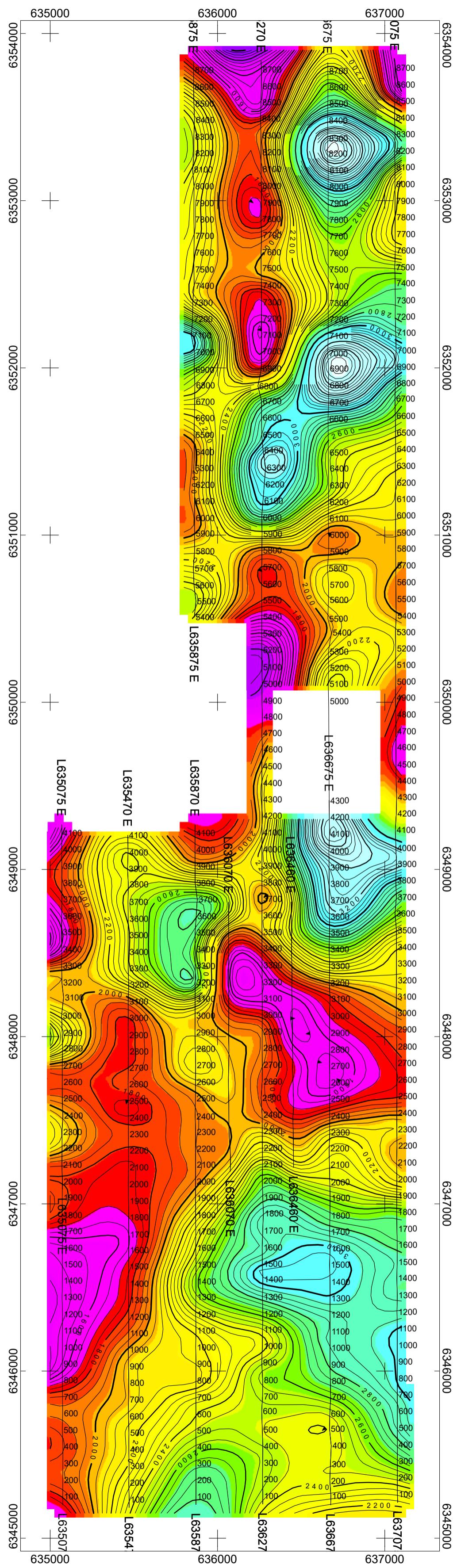
Scale 1:20000
250 0 250 500 750
(meters)

NAD83 / UTM zone 9N

AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOUR OF FILTERED
APPARENT CHARGEABILITY (mV/V)

JOY PROJECT
TOODOGONE AREA
SUMMER 2017

PETER E. WALCOTT & ASSOCIATES LIMITED



Scale 1:20000
250 0 250 500 750
(meters)

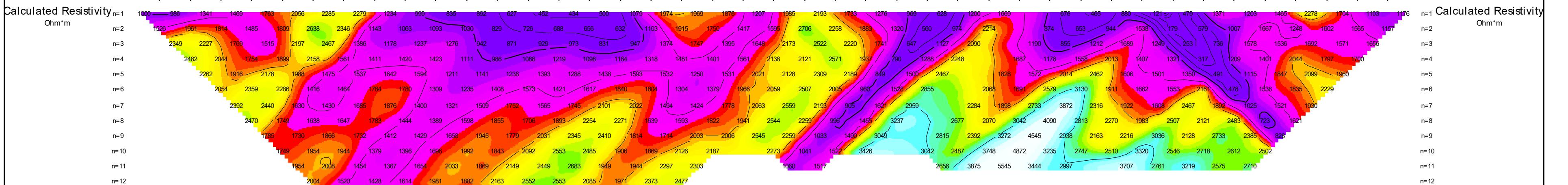
NAD83 / UTM zone 9N

AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOUR OF FILTERED
APPARENT RESISTIVITY (ohm-m)

JOY PROJECT
TOODOGONE AREA
SUMMER 2017

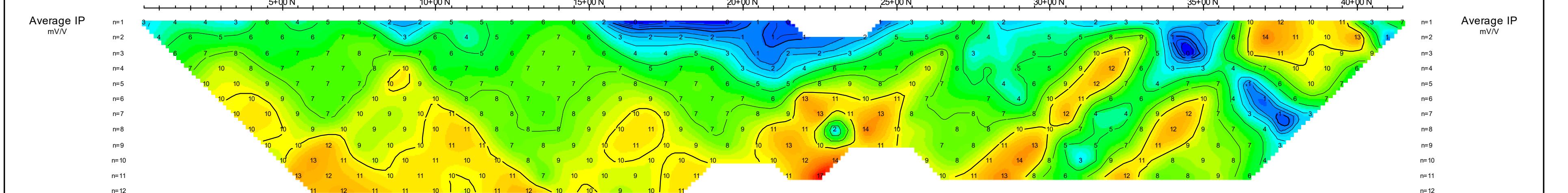
PETER E. WALCOTT & ASSOCIATES LIMITED

6350+75 E

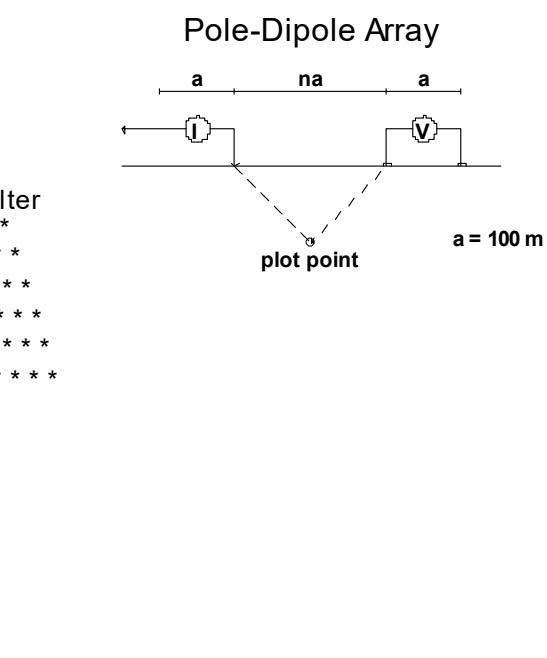


GDD GRX8 x 2
& WALCER 9 kw Tx
Frequency: 0.125 Hz.
Operators: M.M.. J.T.

logarithmic contours 1.5, 2, 3, 5, 7.5, 10,...

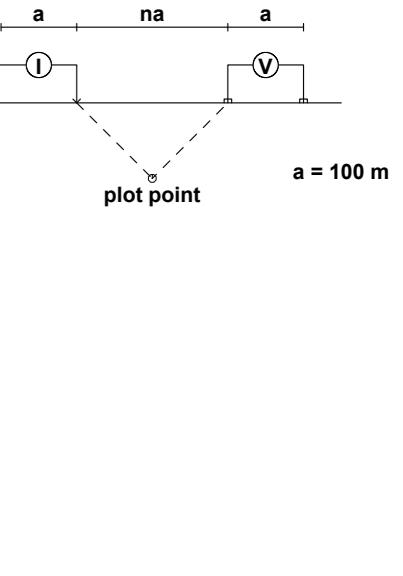


AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT



6354+70 E

Pole-Dipole Array



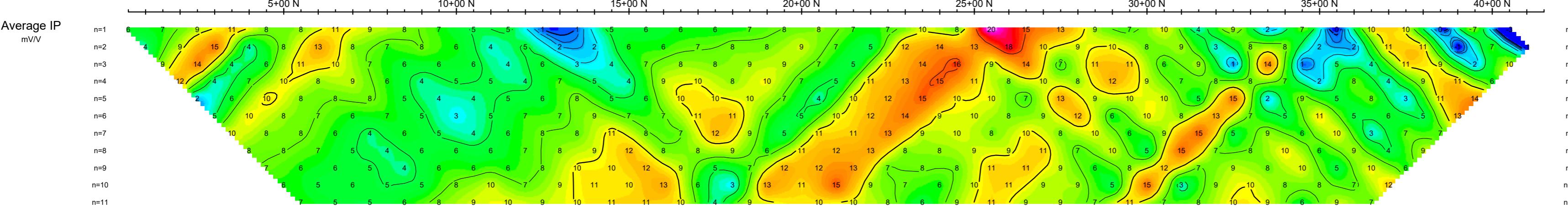
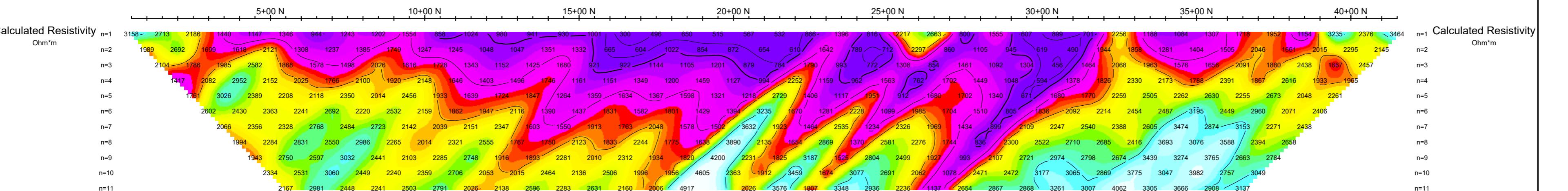
GDD GRX8 x 2
& WALCER 9 kw Tx
Frequency: 0.125 Hz.
Operators: M.M., J.T.

Logarithmic
Contours
1, 1.5, 2, 3, 5, 7.5, 10, ...

AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT

Date: JULY 2017
Interpretation:

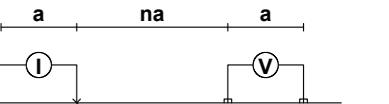
PETER E. WALCOTT & ASSOCIATES LIMITED



Scale 1:10000
100 0 100 200 300 400 500 600
(meters)

6358+70 E

Pole-Dipole Array



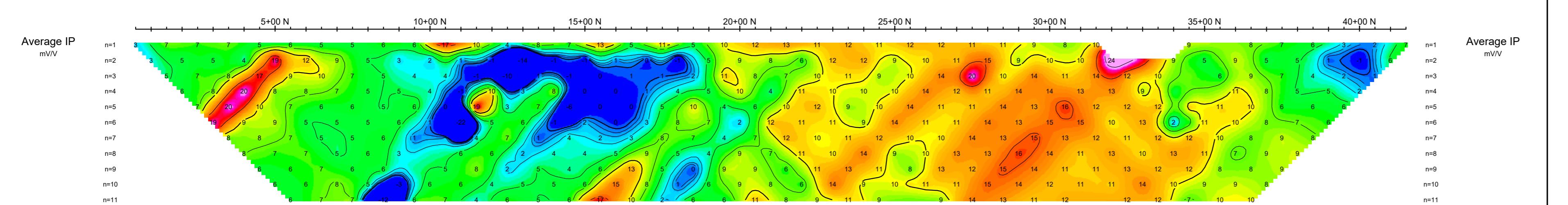
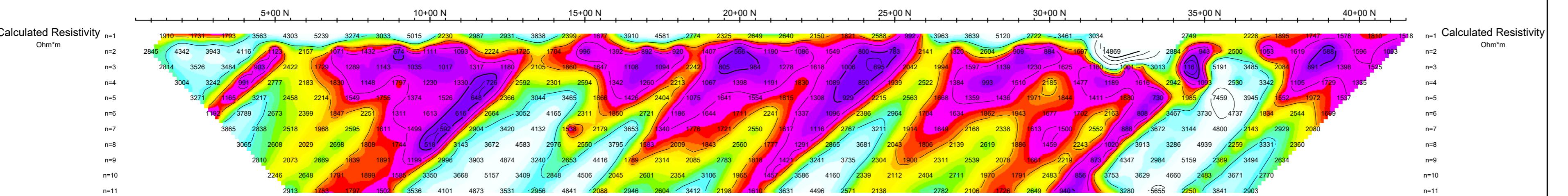
Filter

*

**

a = 100 m

plot point



GDD GRX8 x 2

& WALCER 9 kw Tx

Frequency: 0.125 Hz.

Operators: M.M., J.T.

Logarithmic Contours
1, 1.5, 2, 3, 5, 7.5, 10, ...

Scale 1:10000
100 0 100 200 300 400 500 600
(meters)

AMARC RESOURCES LTD.

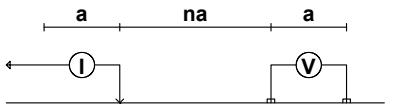
INDUCED POLARIZATION SURVEY
JOY PROJECT

Date: JULY 2017
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

6358+75 E

Pole-Dipole Array



Filter

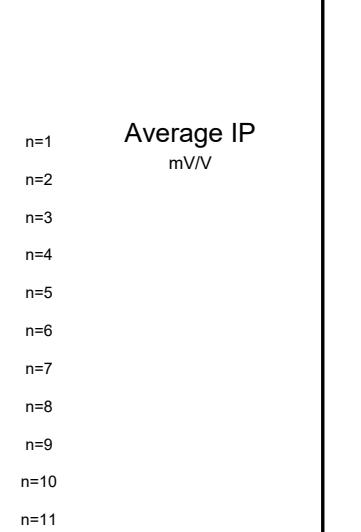
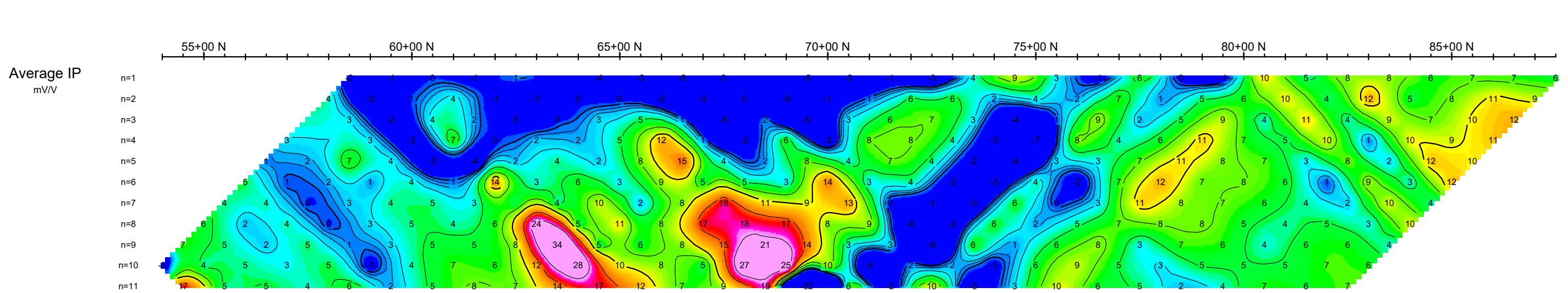
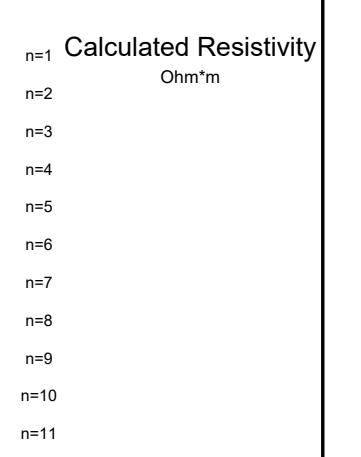
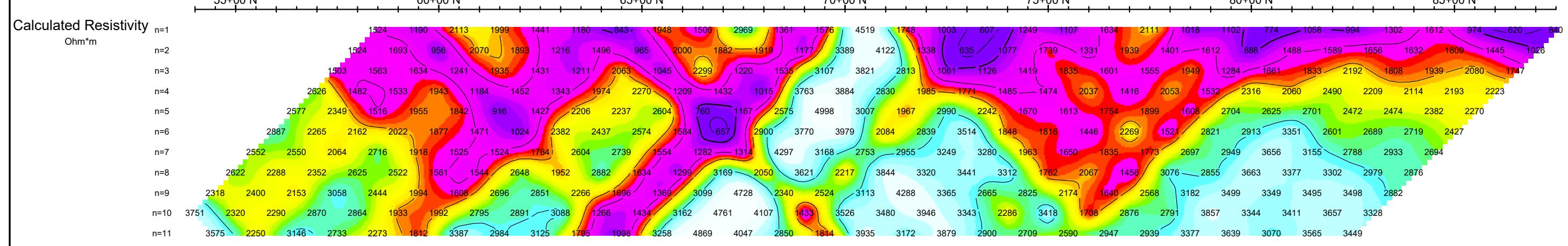
- * *
- * * *
- * * * *
- * * * * *
- * * * * * *

a = 100 m

GDD GRX8 x 2
& WALCOTT 9 kw Tx
Frequency: 0.125 Hz.
Operators: M.M., J.T.

Logarithmic
Contours' 1, 1.5, 2, 3, 5, 7.5, 10, ...

Scale 1:10000
100 0 100 200 300 400 500 600
(meters)



AMARC RESOURCES LTD.

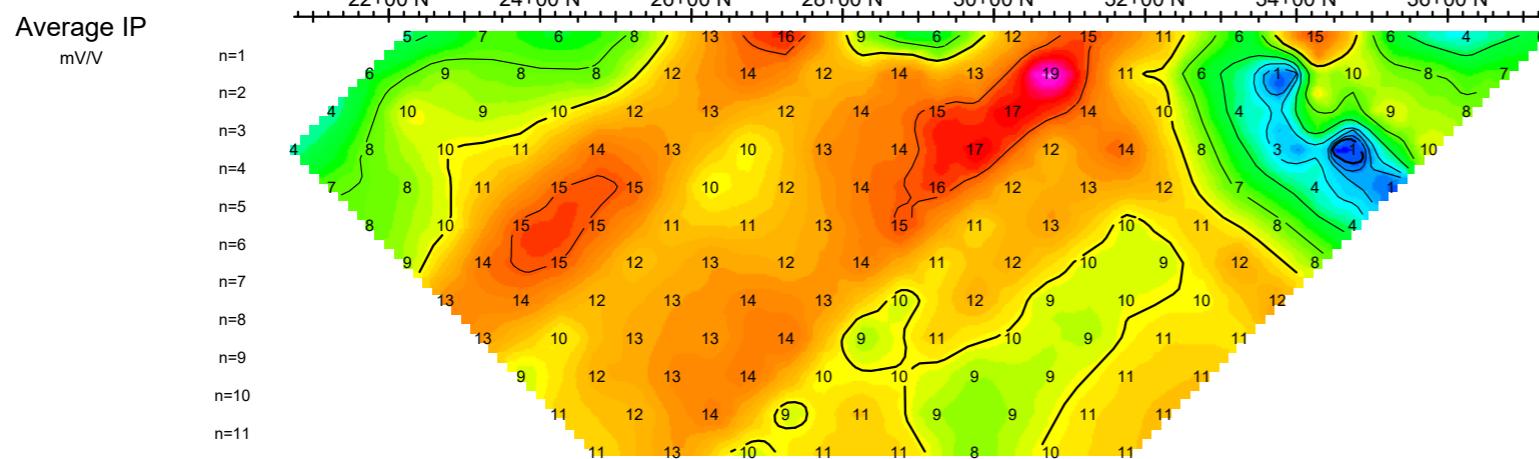
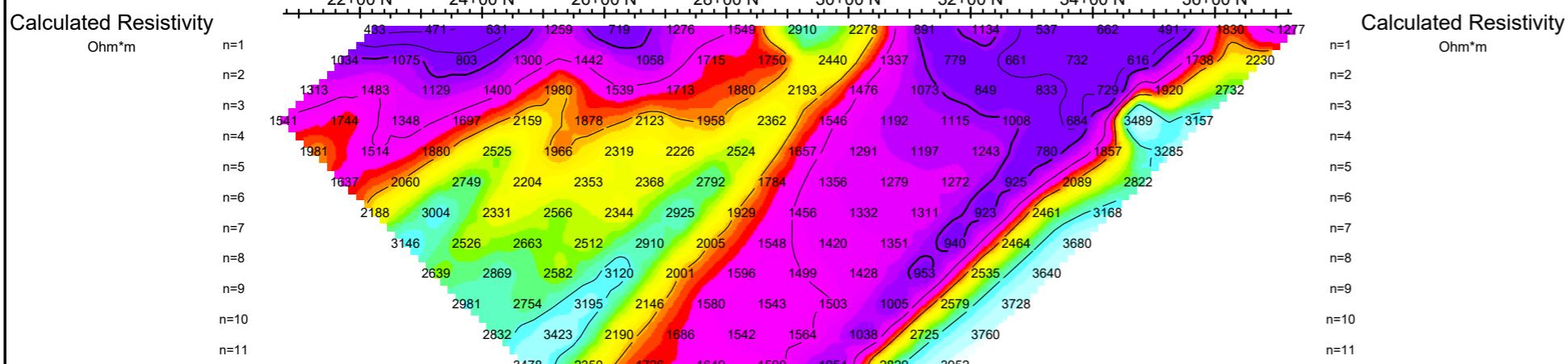
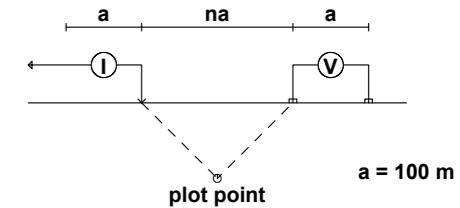
INDUCED POLARIZATION SURVEY
JOY PROJECT

Date: JULY 2017
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

6360+70 E

Pole-Dipole Array



GDD GRX8 x 2
& WALCER 9 kw Tx.
Frequency: 0.125 Hz.
Operators: M.M., J.T.

Logarithmic
Contours
 $1, 1.5, 2, 3, 5, 7.5, 10, \dots$

Scale 1:10000
100 0 100 200 300 400 500 600
(meters)

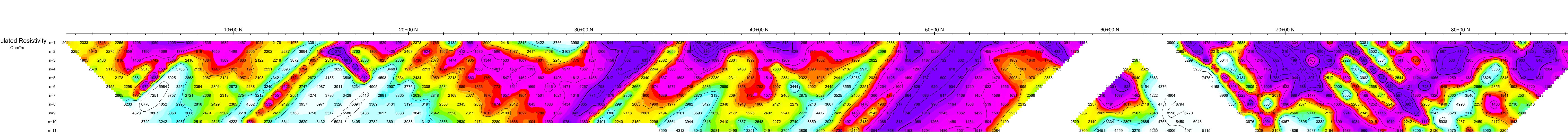
AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT

Date: JULY 2017
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

6362+70

Pole Dipole Array



GDD GRX8 x 2
& WALCER 9 kw Tx

Logarithmic

Contours: 1.5, 2, 3, 5, 7.5,

Scale 1:10000

100 200 300 400

(meters)

(meters)

[View all posts by **John Doe**](#) [View all posts in **Category A**](#) [View all posts in **Category B**](#)

AMARC RESOURCES LTD

ED POLARIZATION SPECTRA

INDUCED POLARIZATION SURVEY PROJECT

JOY PROJECT

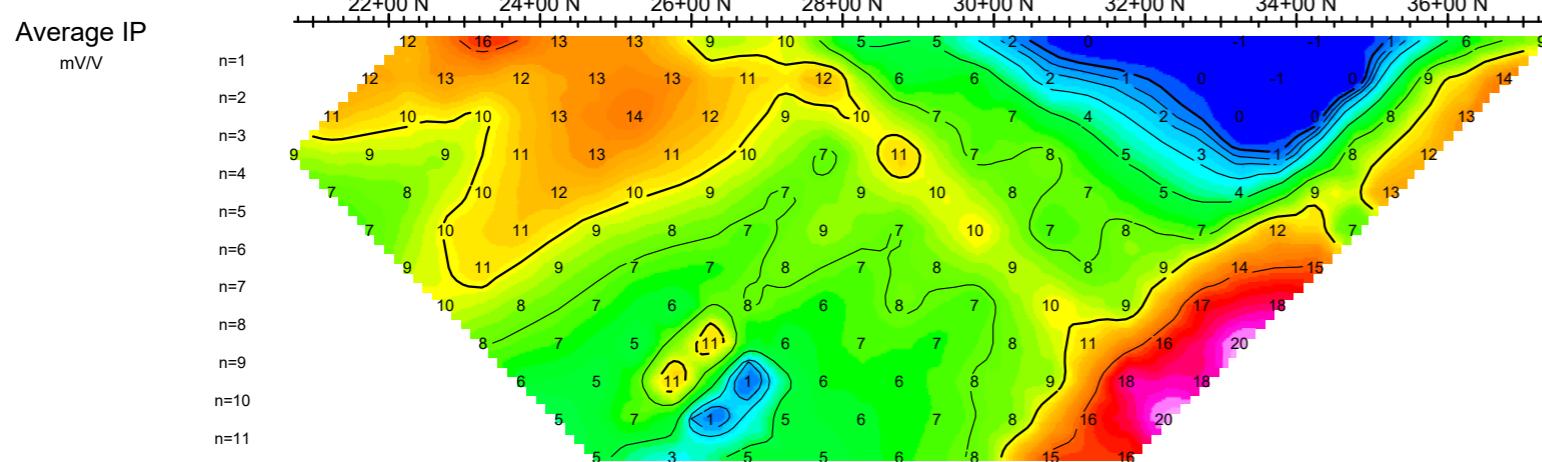
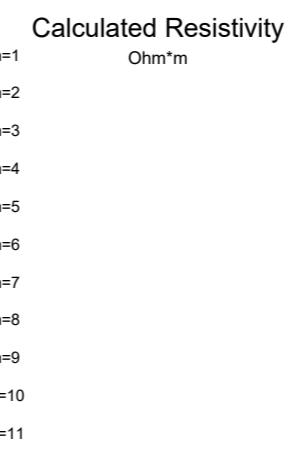
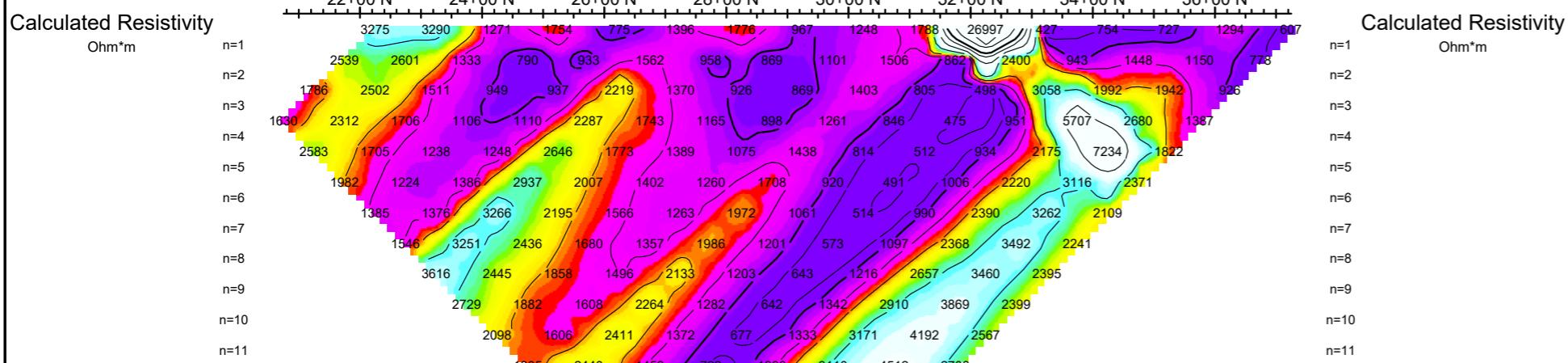
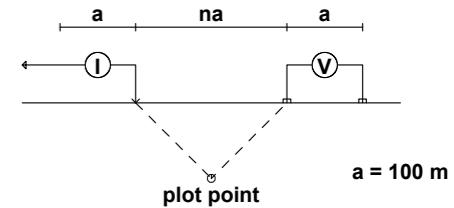
Date: JULY 2017
Interpretation:

Interpretation:

PETER E. WALCOTT & ASSOCIATES

6364+60 E

Pole-Dipole Array



GDD GRX8 x 2
& WALCER 9 kw Tx
Frequency: 0.125 Hz.
Operators: M.M., J.T.

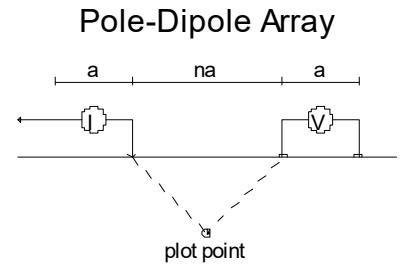
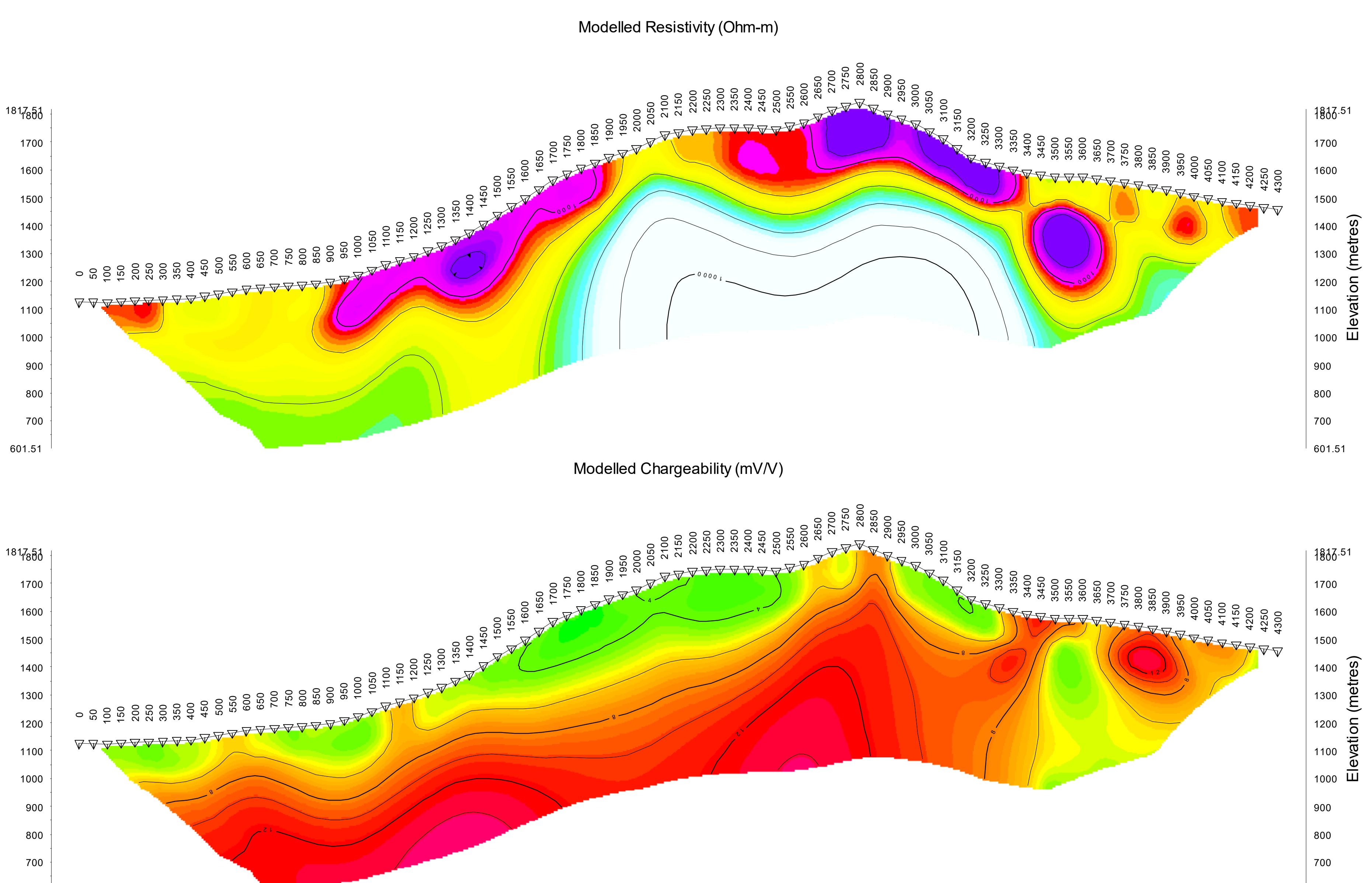
Logarithmic
Contours
 $1, 1.5, 2, 3, 5, 7.5, 10, \dots$

Scale 1:10000
100 0 100 200 300 400 500 600
(meters)

AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT

Date: JULY 2017
Interpretation:

PETER E. WALCOTT & ASSOCIATES LIMITED

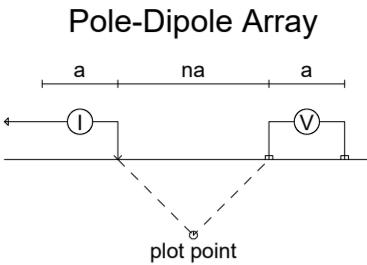


AMARC RESOURCES LTD.	
INDUCED POLARIZATION SURVEY	
JOY PROJECT	
BRITISH COLUMBIA	
Date: JULY 2017	
RES2DINV	
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED	

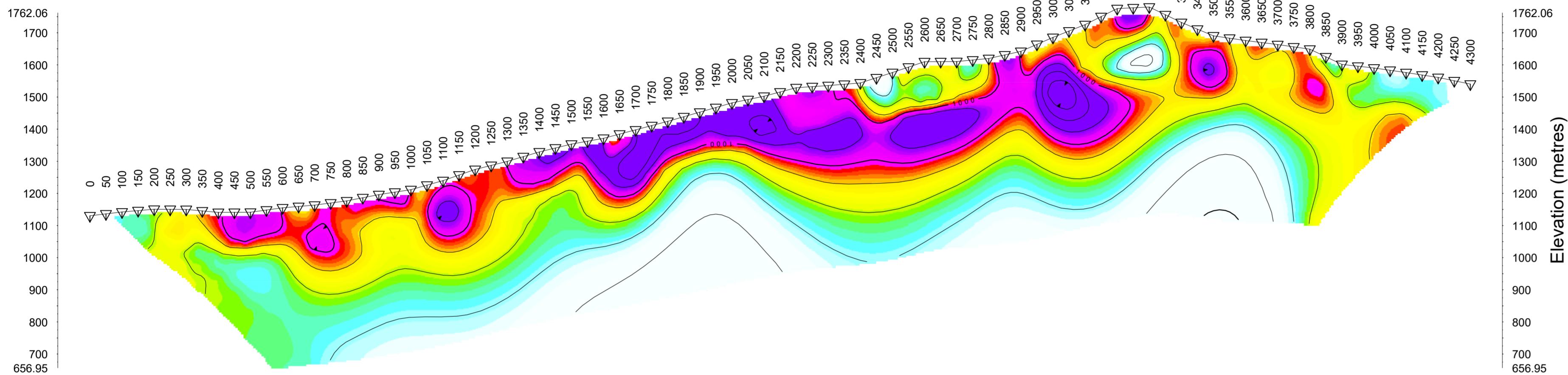
Scale 1:10000
200 0 200 400 600
(meters)

4887.04
4475.07
4097.82
3752.37
3436.05
3146.39
2881.15
2638.27
2415.87
2212.21
2025.72
1854.95
1698.58
1555.39
1424.27
1304.21
1194.26
1093.59
1001.40
916.98
839.68
768.89
704.08
644.72

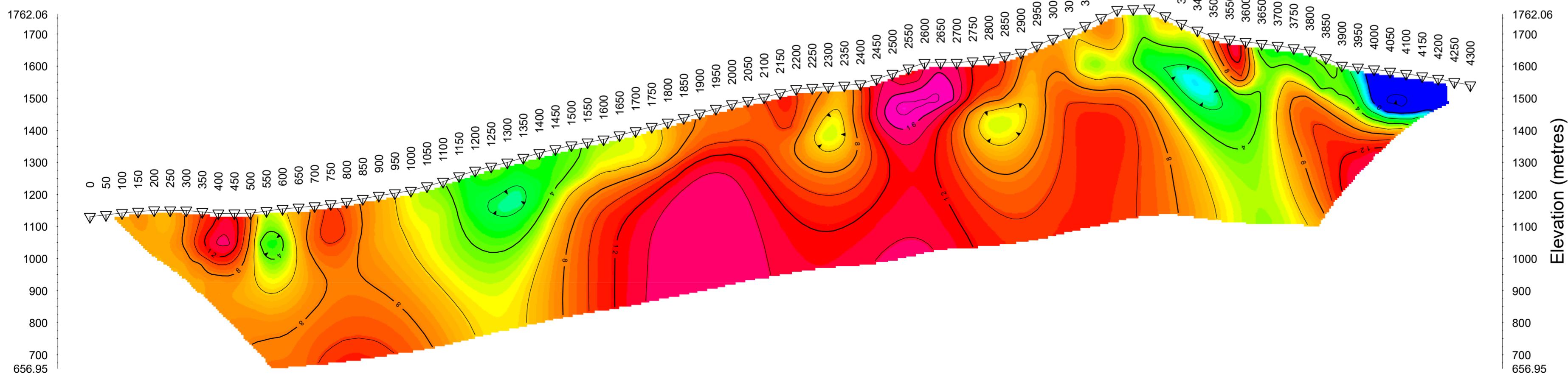
Modelled Chargeability mV/V
Modelled Resistivity ohm-m



Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)

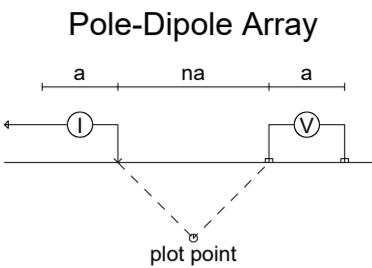


AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA
Date: JULY 2017
RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

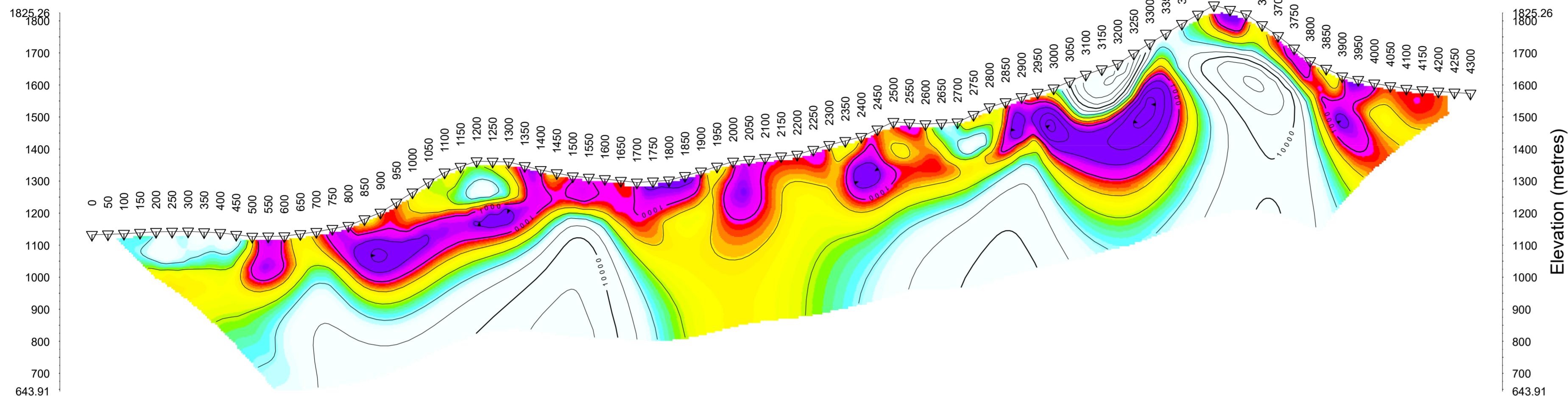
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4475.07
4097.62
3752.37
3436.05
3146.39
2881.15
2638.27
2415.87
2212.21
2025.72
1854.95
1698.58
1555.39
1424.27
1304.21
1194.26
1093.59
1001.40
916.98
839.68
768.89
704.08
644.72

Modelled Resistivity
ohm-m

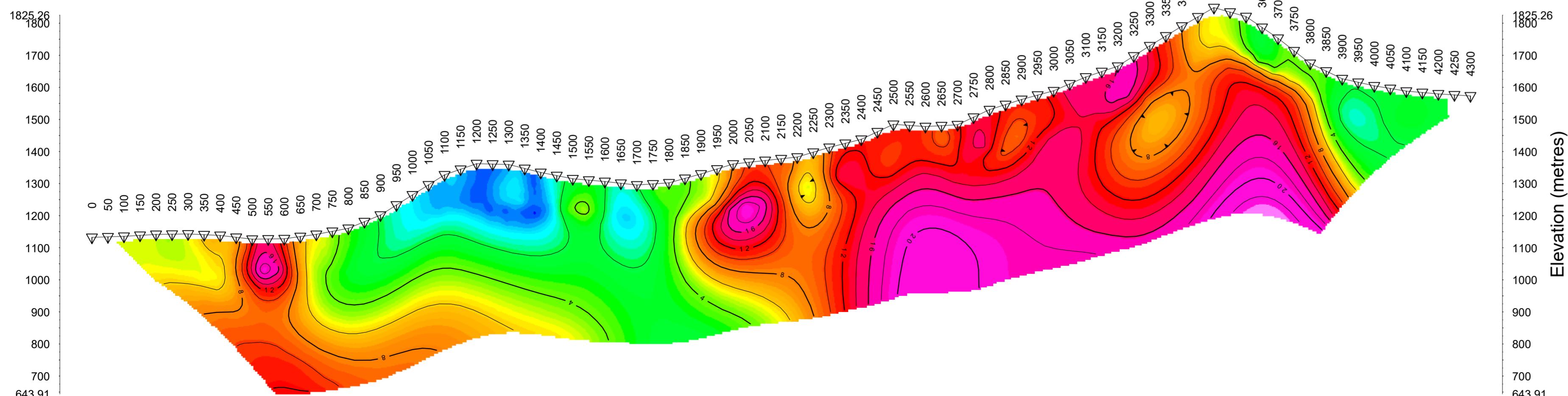
Scale 1:10000
200 0 200 400 600
(meters)



Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)



AMARC RESOURCES LTD.

INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIADate: JULY 2017
RES2DINV

Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

Scale 1:10000
(meters)

200

0

200

400

600

1000

800

700

600

500

400

300

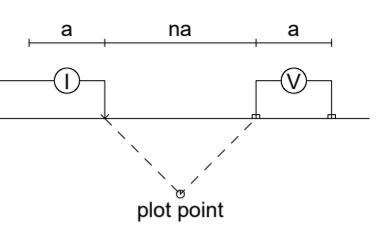
200

100

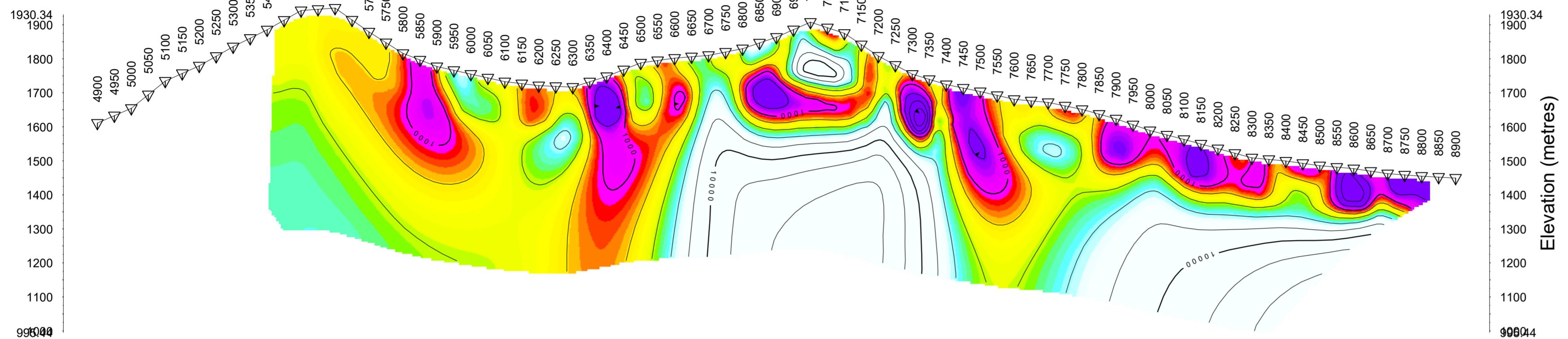
0

Line 635875

Pole-Dipole Array



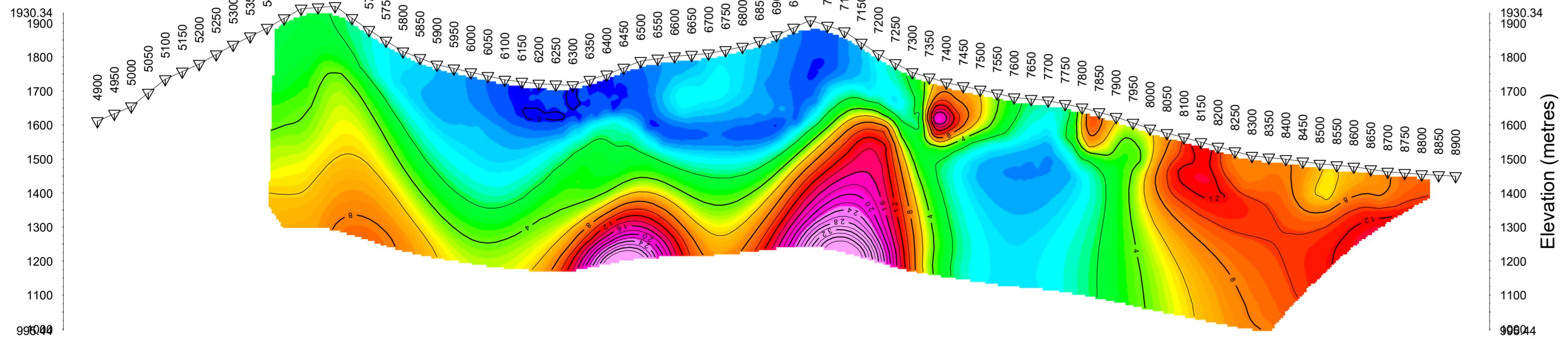
Modelled Resistivity (Ohm-m)



Elevation (metres)

27.74
22.87
18.92
16.11
14.07
12.88
11.74
10.72
9.85
9.07
8.45
7.88
7.41
7.07
6.73
6.39
5.78
5.51
5.24
4.97
4.69
4.38
4.05
3.68
3.29
2.90
2.53
2.11
1.73
1.39
1.07
0.71
0.55
0.39
0.22
0.09
0.08
0.04

Modelled Chargeability (mV/V)



Elevation (metres)

4887.04
4475.07
4097.82
3752.37
3436.05
3146.39
2881.15
2638.27
2415.87
2212.21
2025.72
1854.95
1698.58
1555.39
1424.27
1304.21
1194.26
1093.59
1001.40
916.98
839.68
768.89
704.08
644.72

Modelled Chargeability
mV/V
Modelled Resistivity
ohm-m

Scale 1:10000

200 0 200 400 600
(meters)

AMARC RESOURCES LTD.

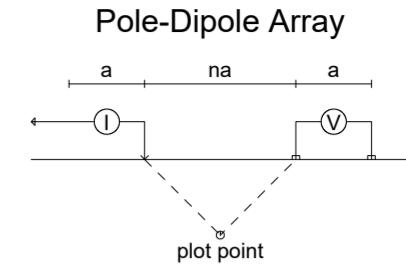
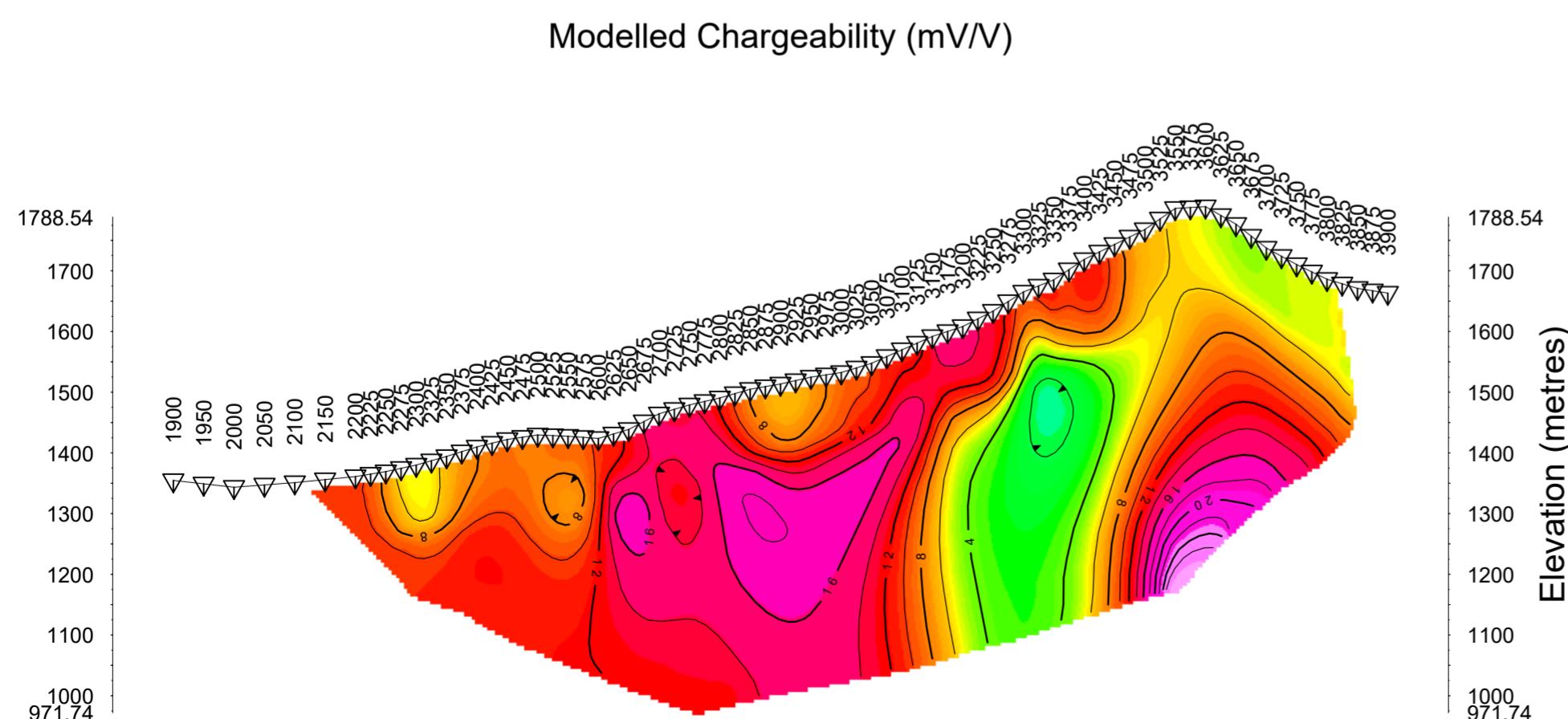
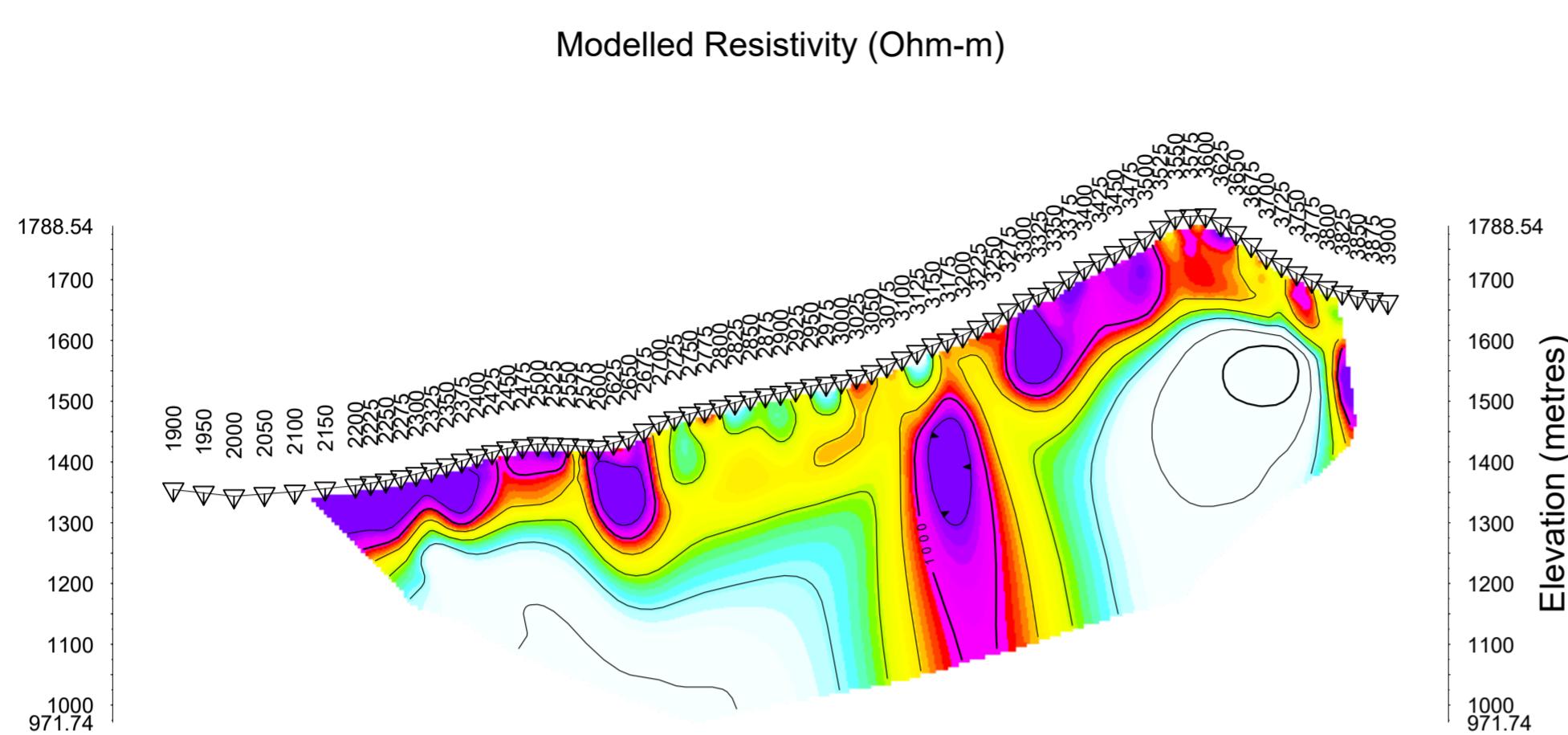
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA

Date: JULY 2017

RES2DINV

Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

Line 636070



Pole-Dipole Array

Modelled Reciprocity
4887.04
4475.07
4097.82
3752.37
3436.05
3146.39
2881.15
2638.27
2415.87
2212.21
2025.72
1854.95
1698.58
1555.39
1424.27
1304.21
1194.26
1093.59
1001.40
916.98
839.68
768.89
704.08
644.72

A scale bar diagram titled "Scale 1:10000". It features a horizontal line with tick marks at intervals of 100 meters, ranging from 0 to 600. Below the line, the word "(meters)" is written in parentheses.

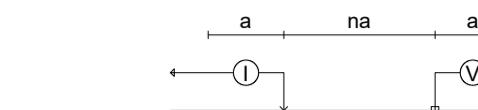
AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA

Date: JULY 2017
RES2DINV

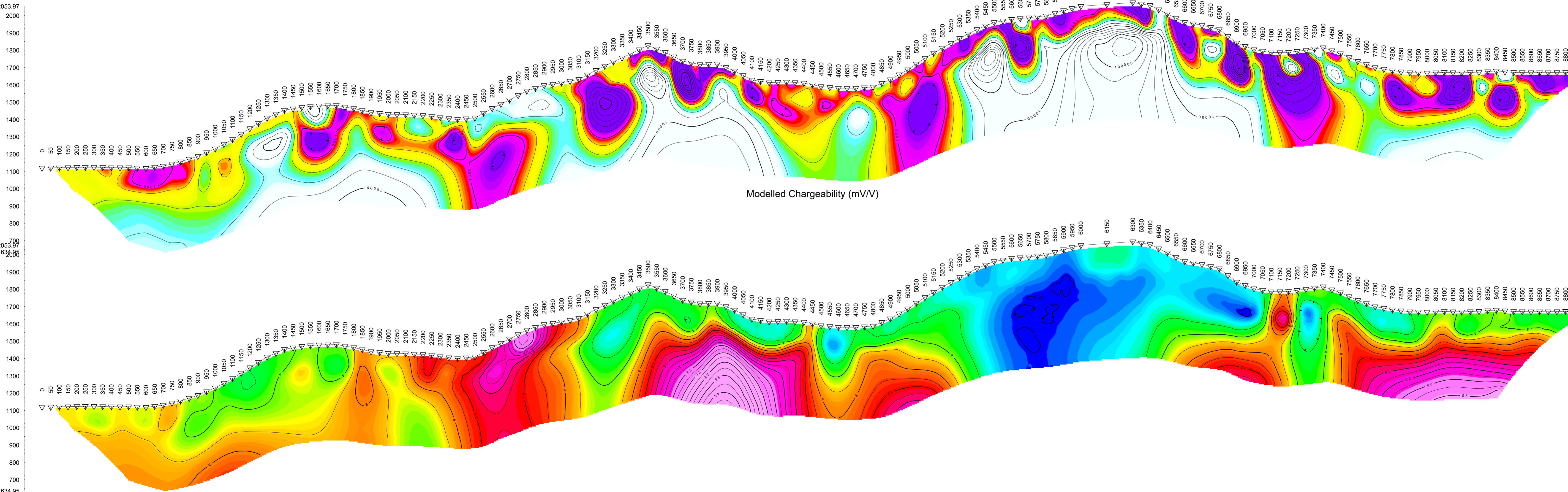
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED

Line 636270

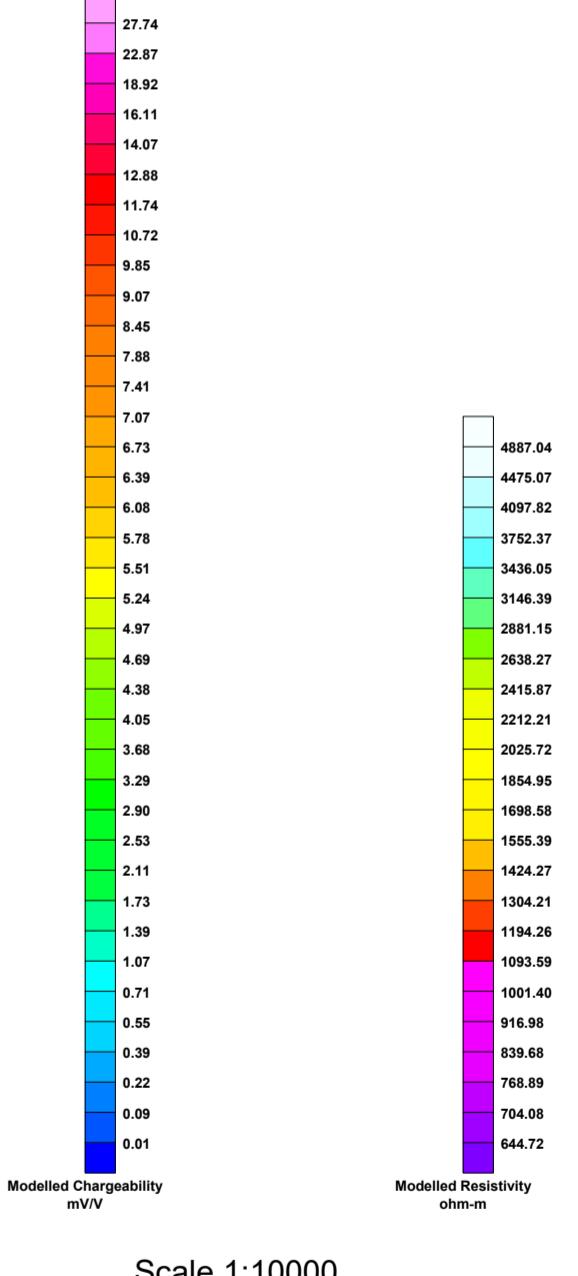
Pole-Dipole Array



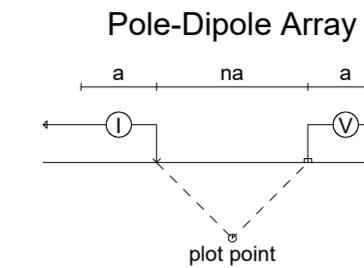
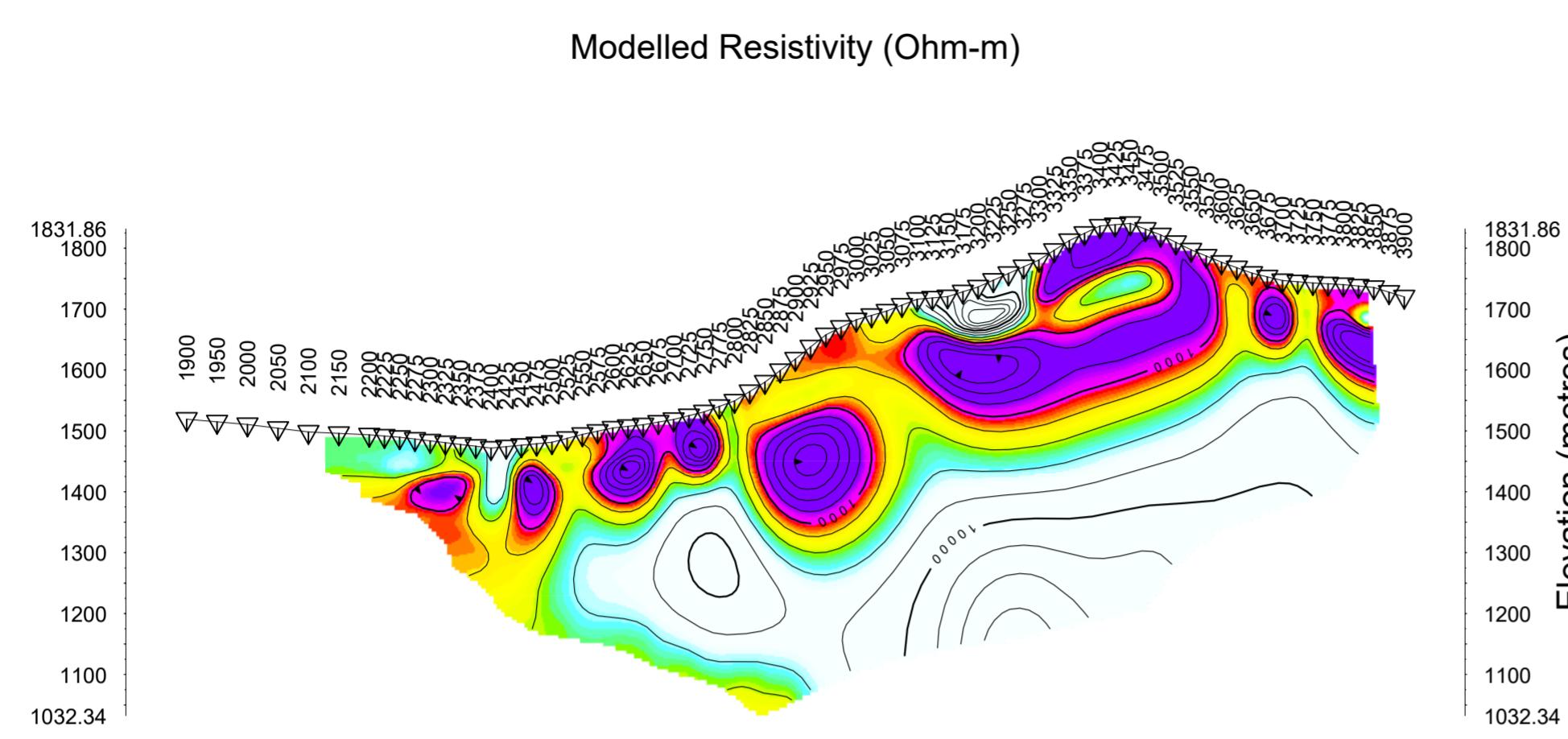
Modelled Resistivity (Ohm-m)



AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA
Date: JULY 2017
RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

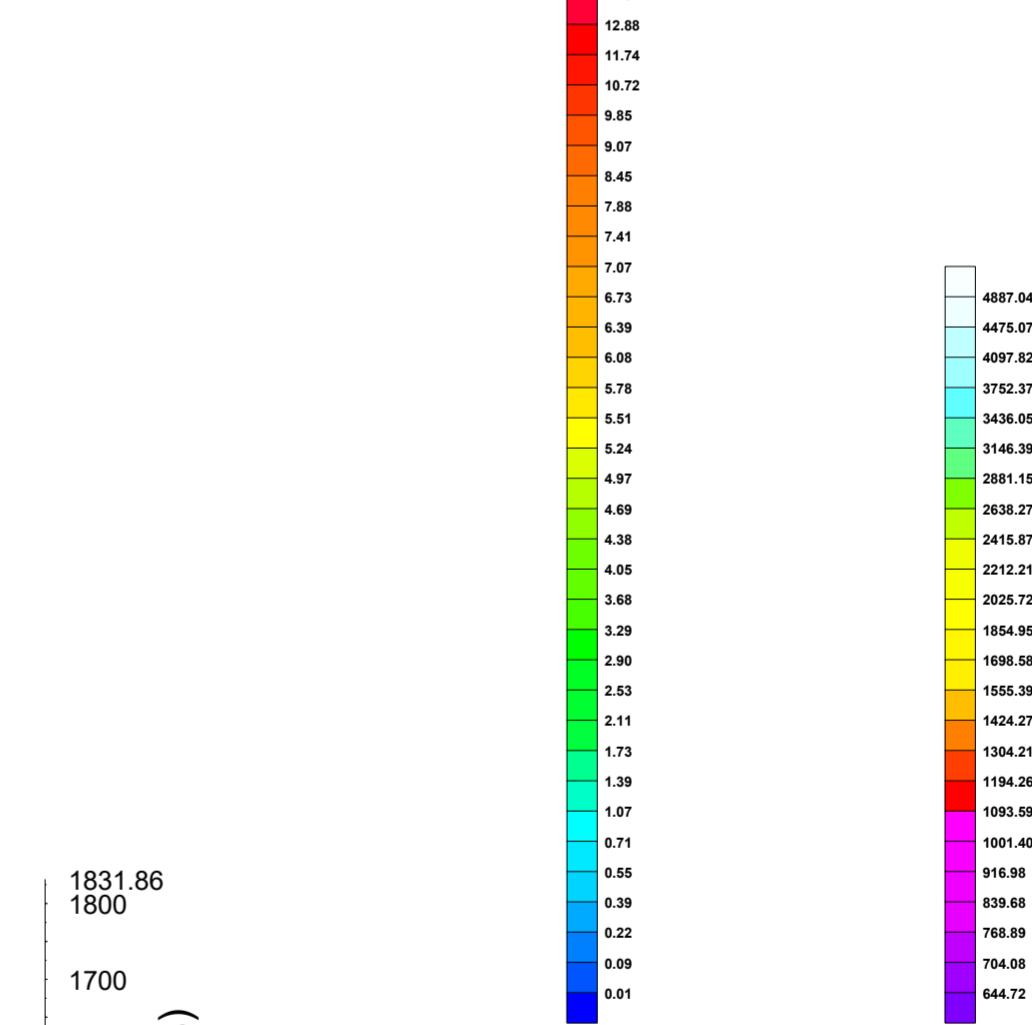
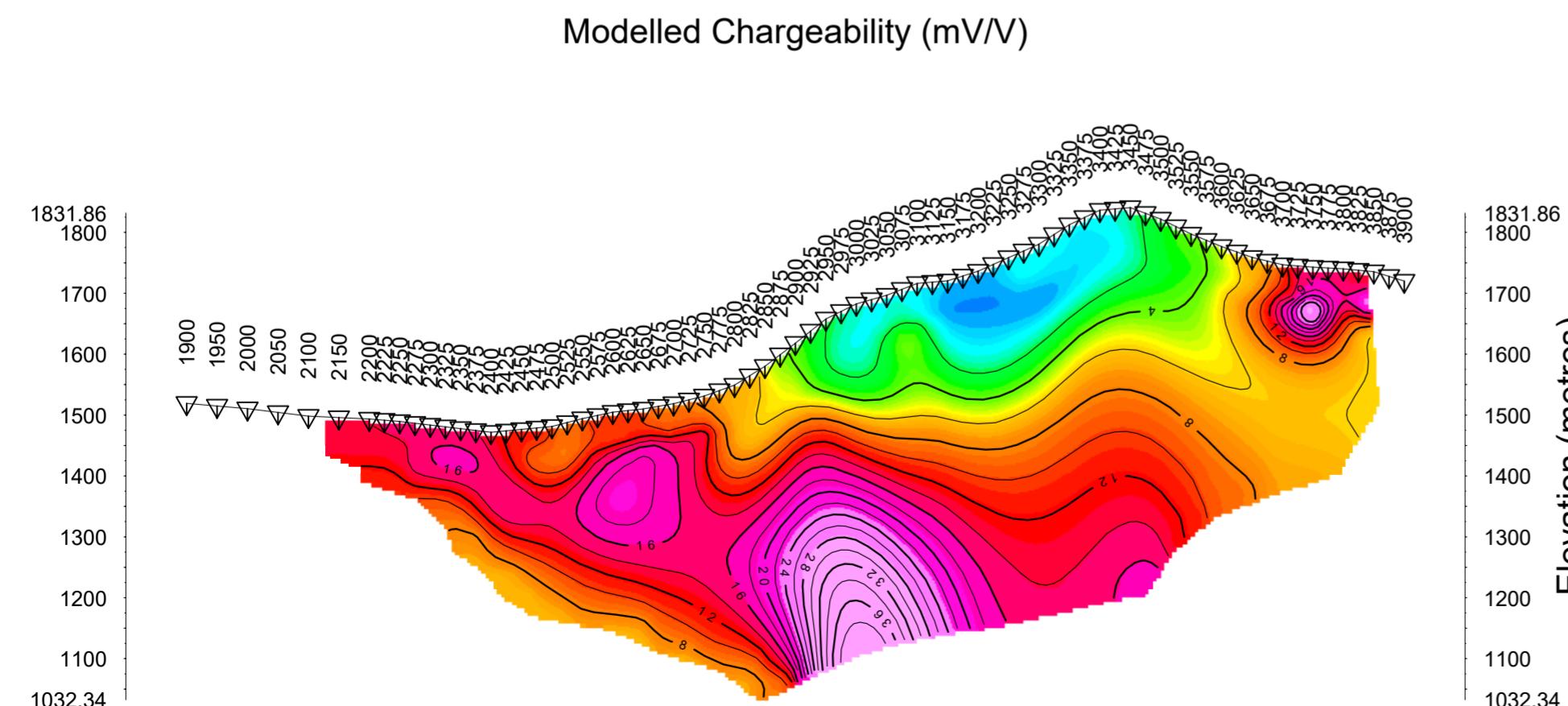


Line 636460



Elevation (metres)

1831.86
1800
1700
1600
1500
1400
1300
1200
1100
1032.34



Scale 1:10000
100 0 100 200 300 400 500 600
(meters)

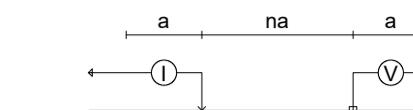
AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA

Date: JULY 2017
RES2DINV

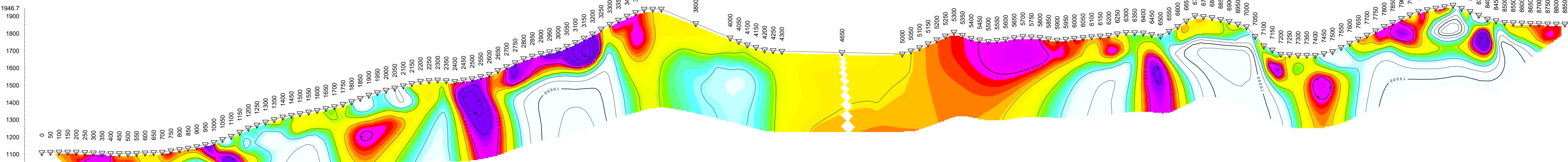
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

Line 636675

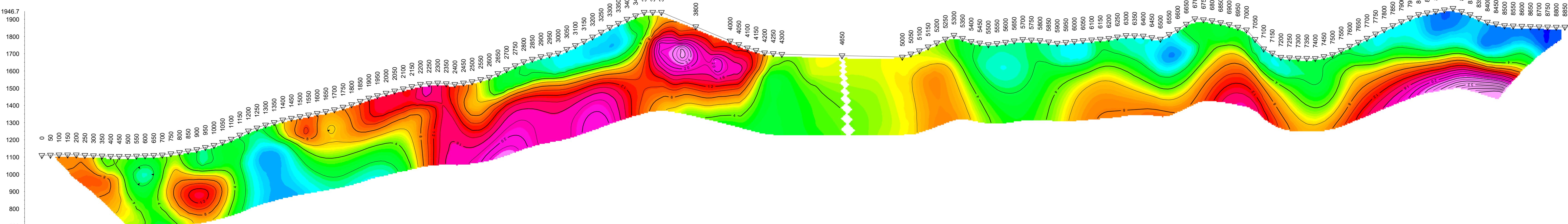
Pole-Dipole Array



Modelled Resistivity (Ohm-m)

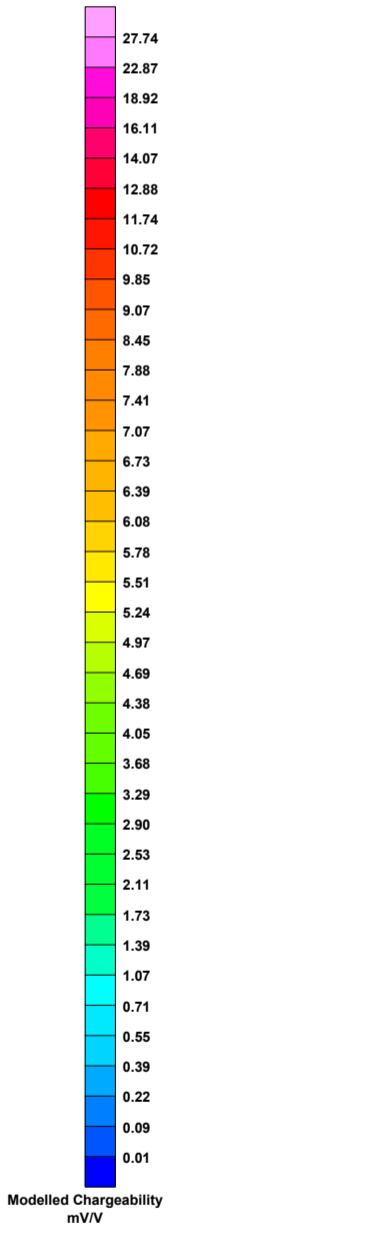


Modelled Chargeability (mV/V)



Elevation (metres)

Elevation (metres)

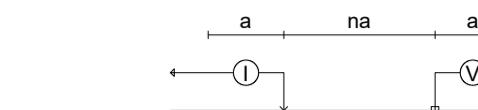


AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA
Date: JULY 2017
RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

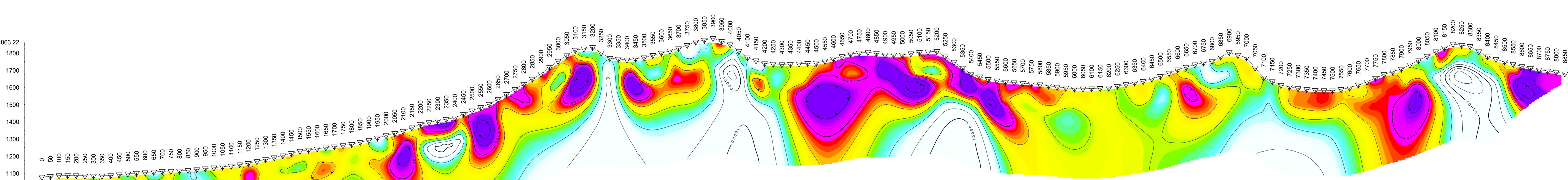
Scale 1:10000
200 0 200 400 600
(meters)

Line 637075

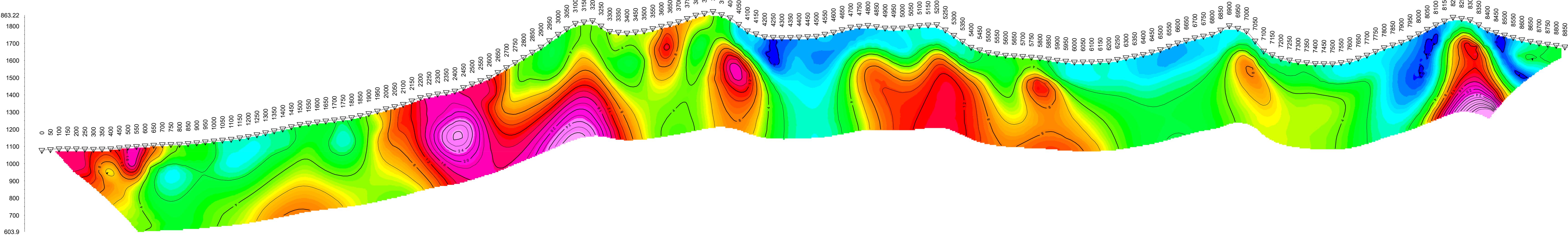
Pole-Dipole Array



Modelled Resistivity (Ohm-m)

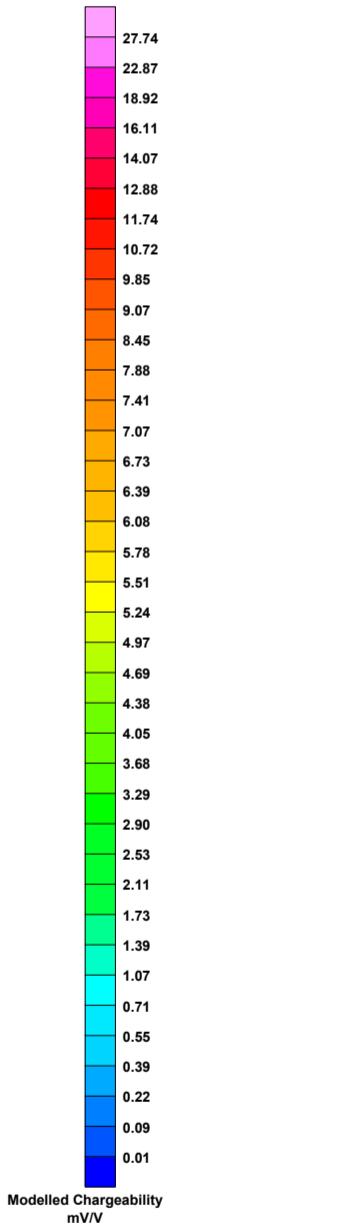


Modelled Chargeability (mV/V)



Elevation (metres)

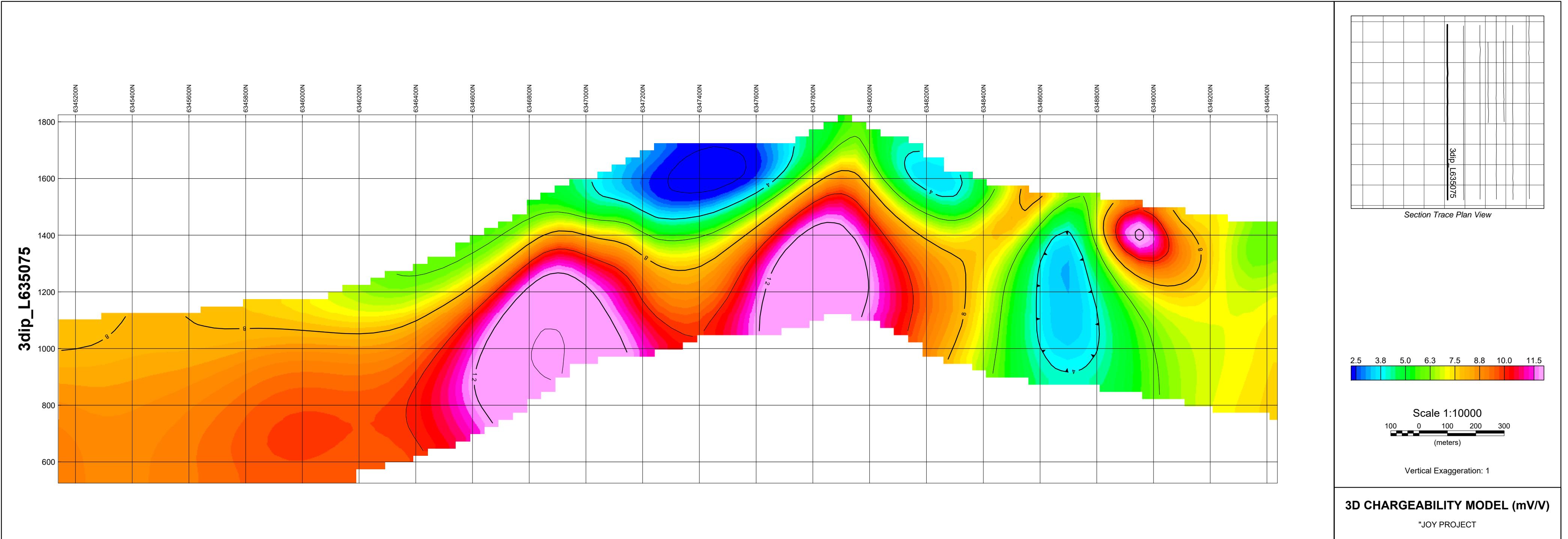
Elevation (metres)

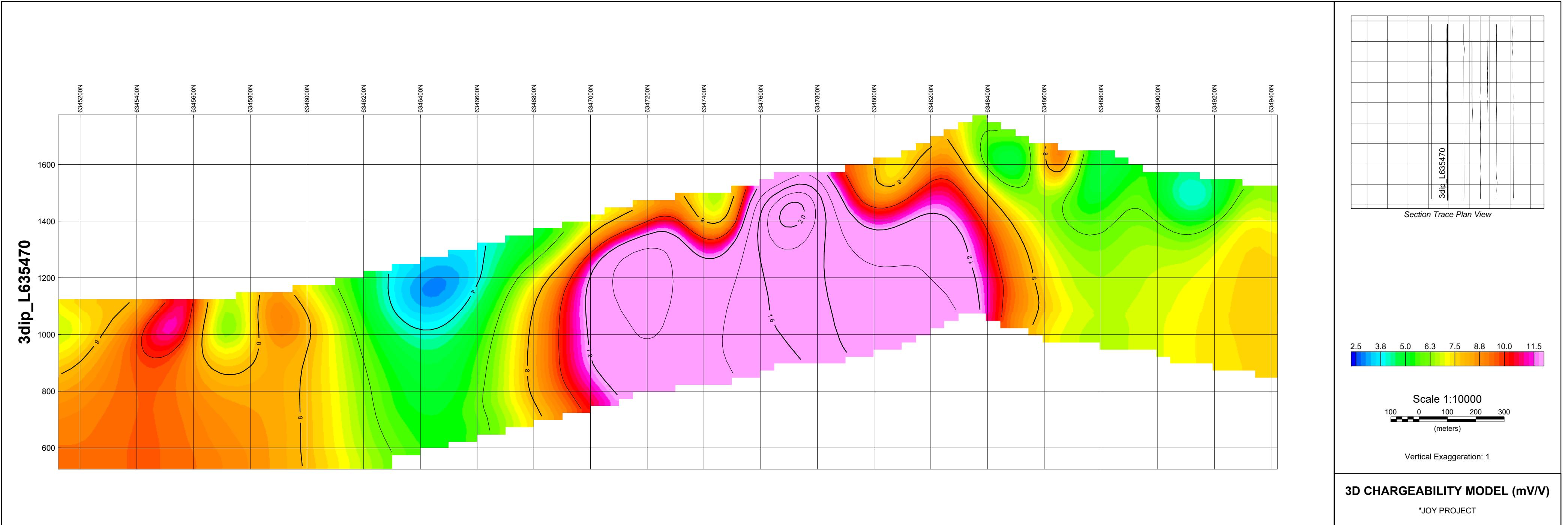


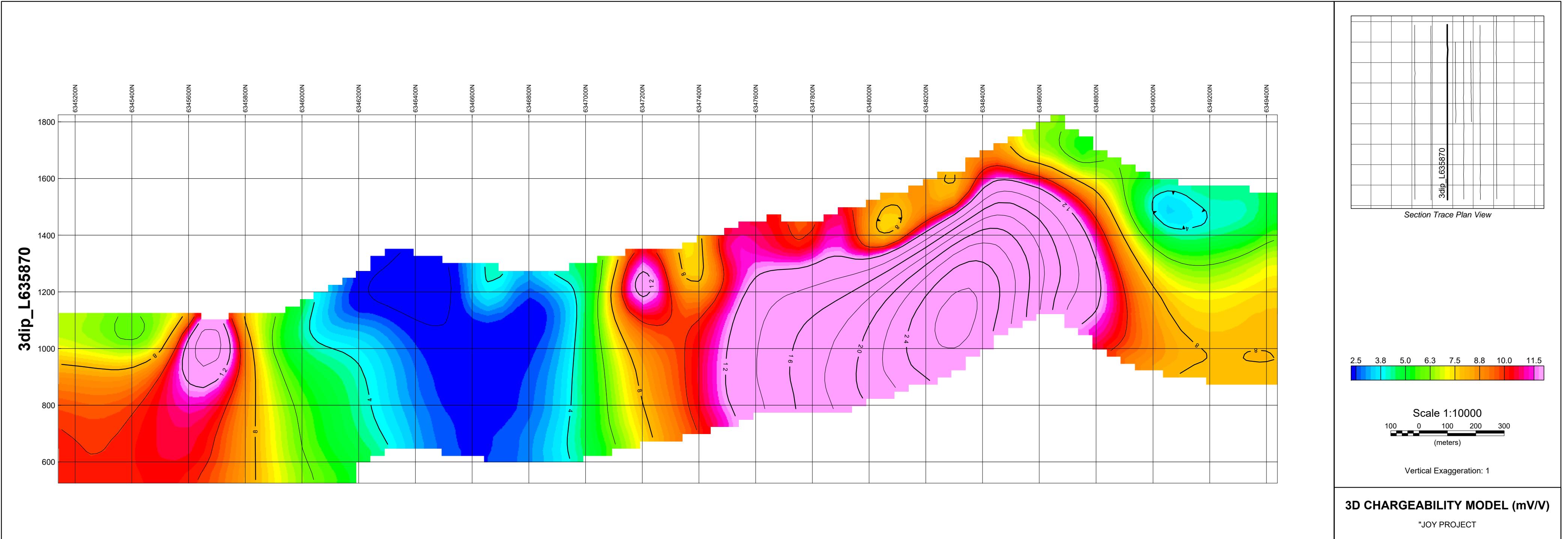
AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
JOY PROJECT
BRITISH COLUMBIA
Date: JULY 2017
RES2DINV
Inversion By: PETER E. WALCOTT & ASSOCIATES LIMITED

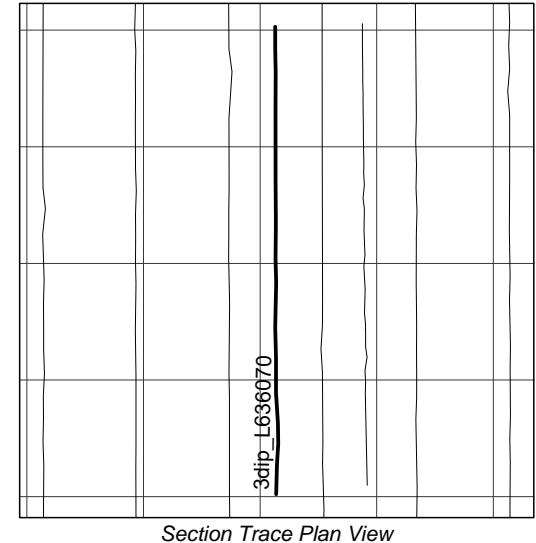
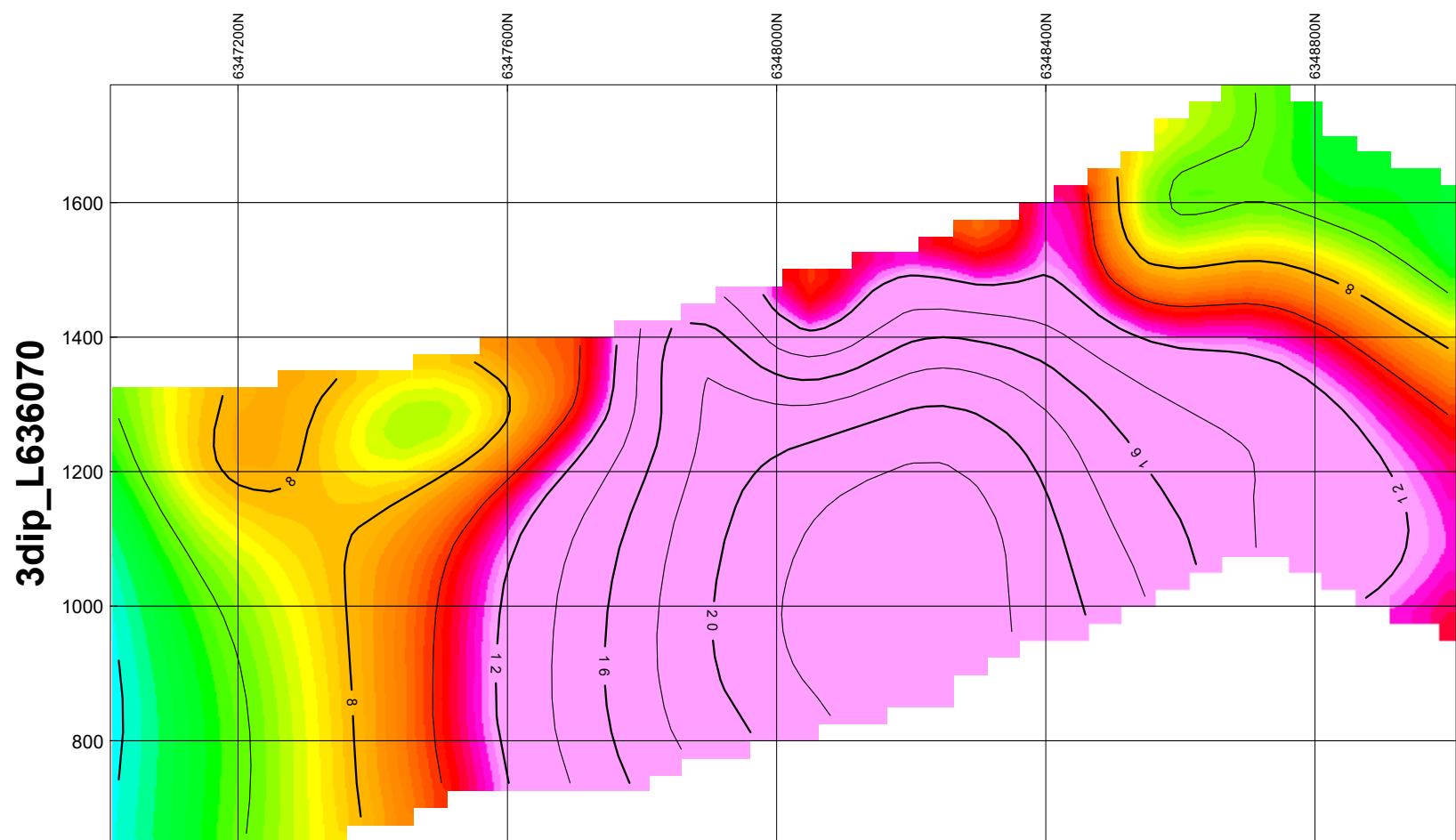
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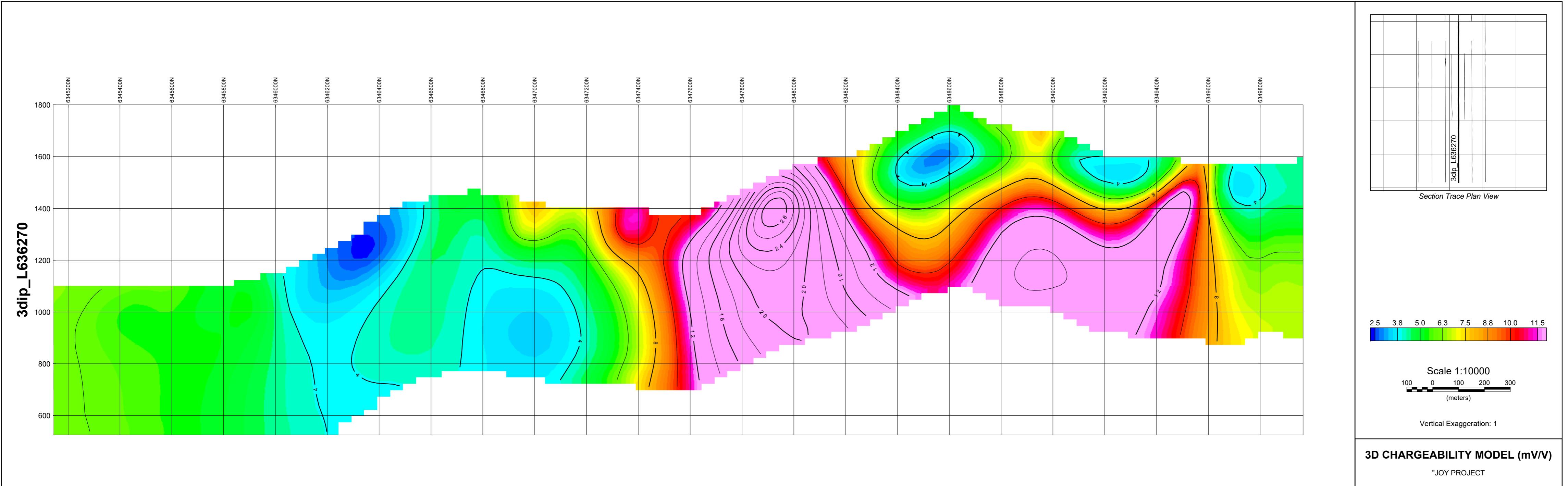
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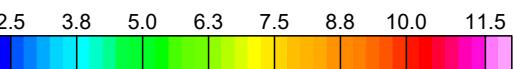
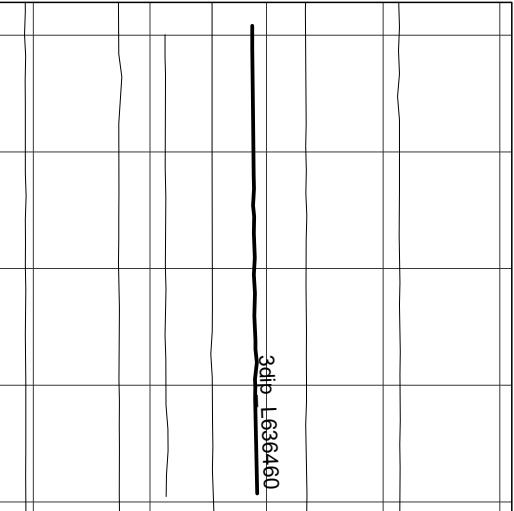
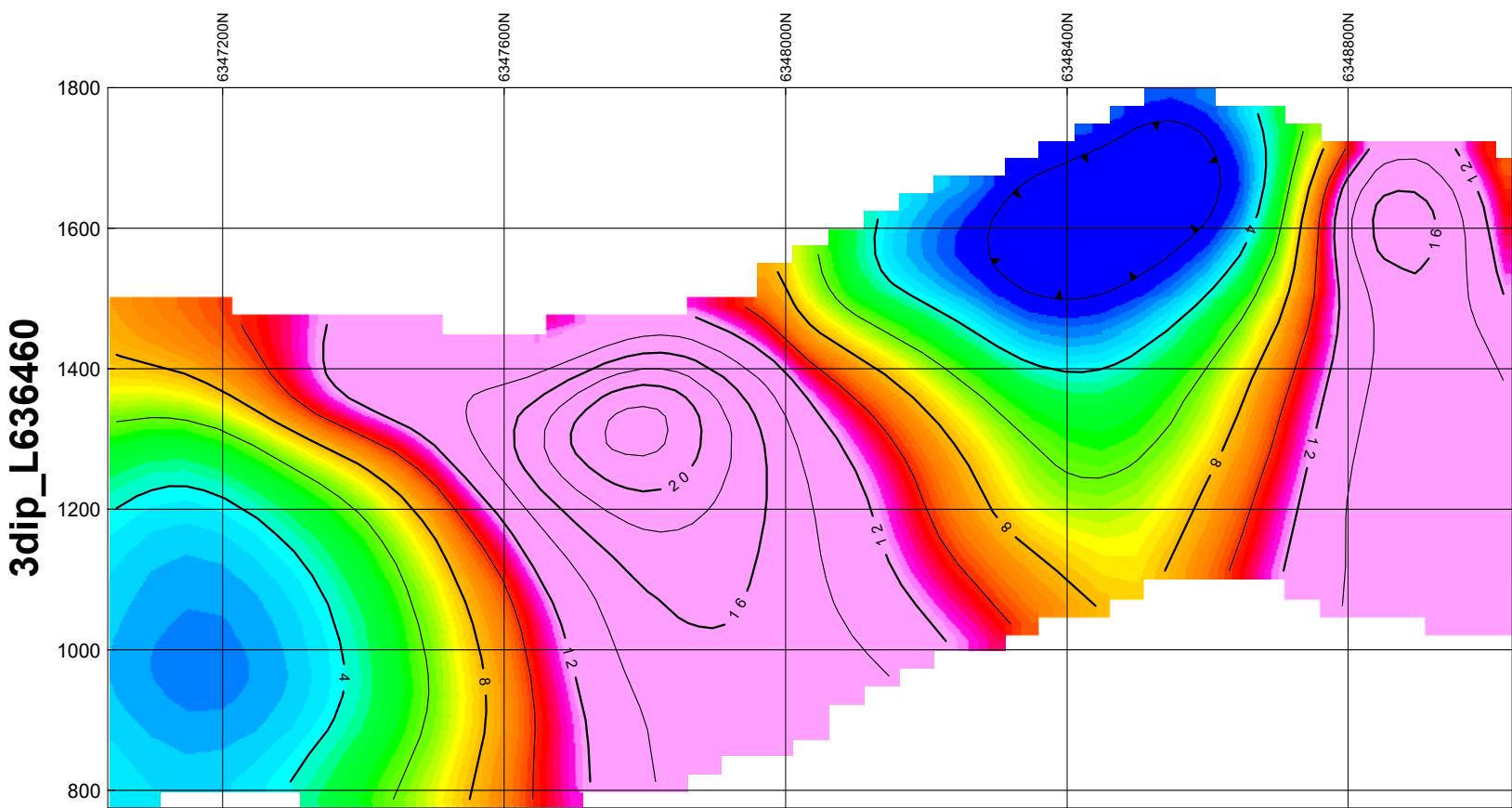












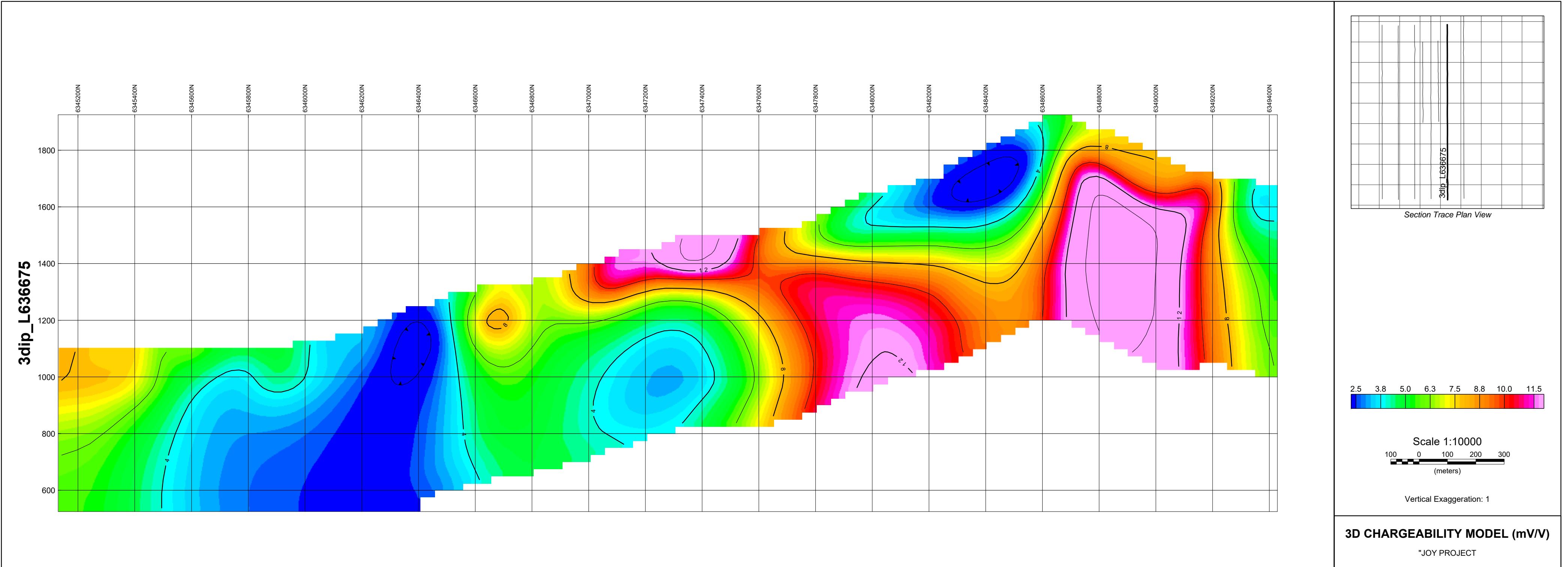
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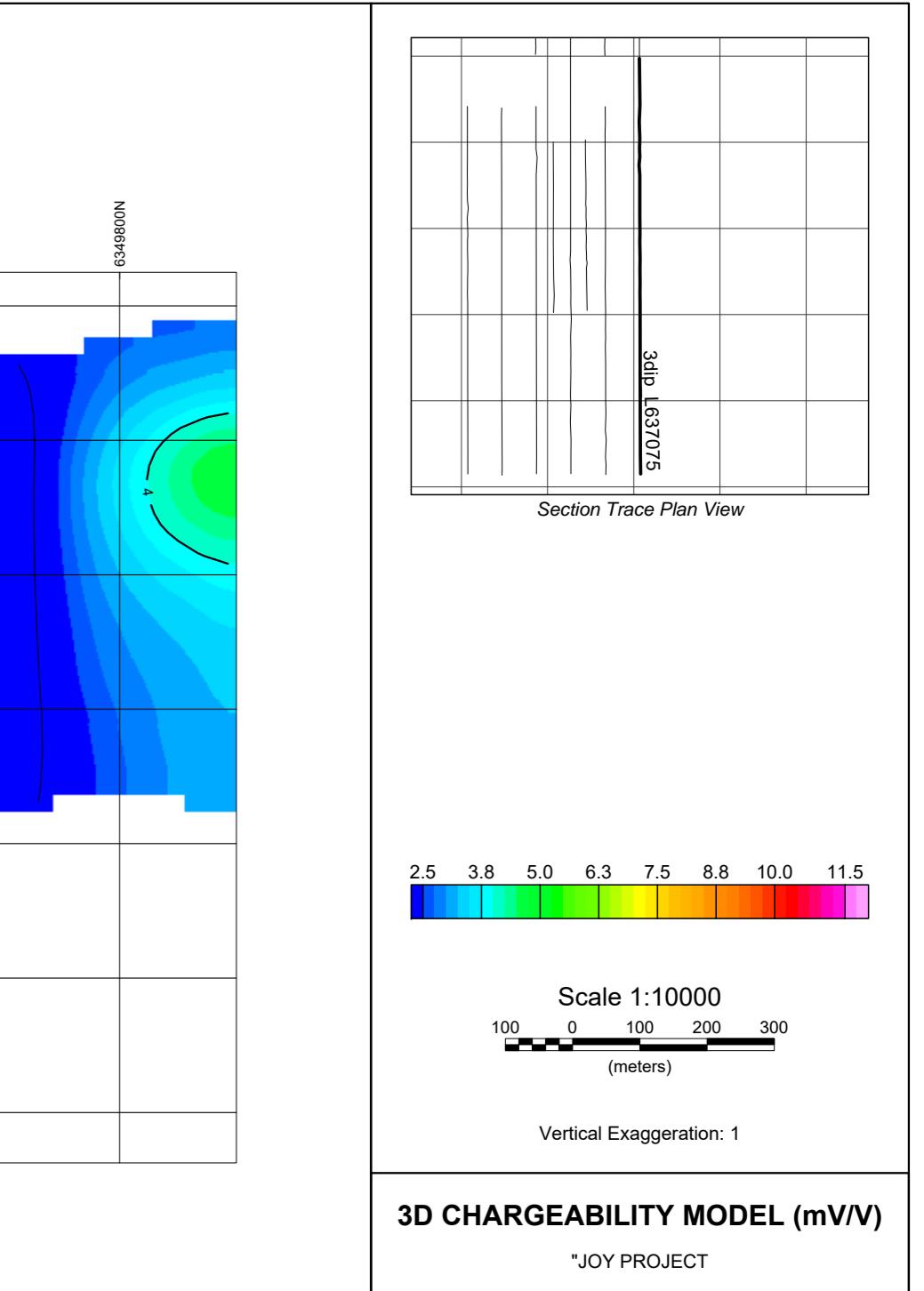
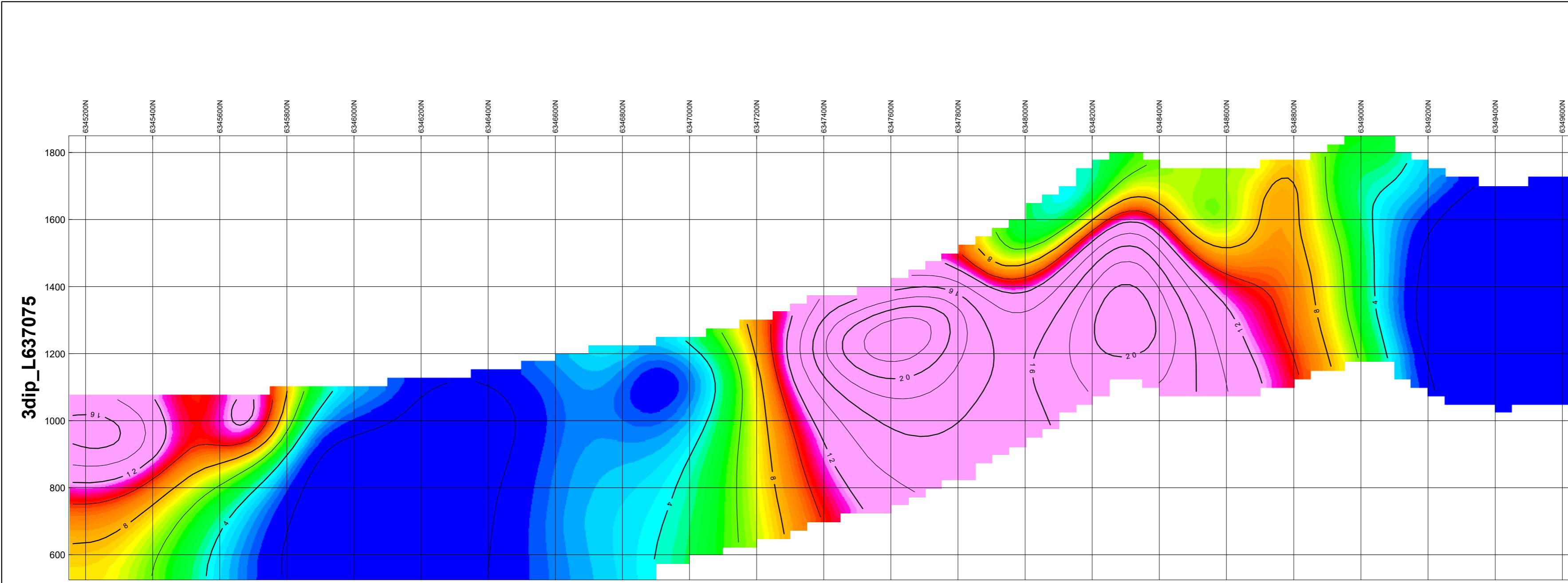
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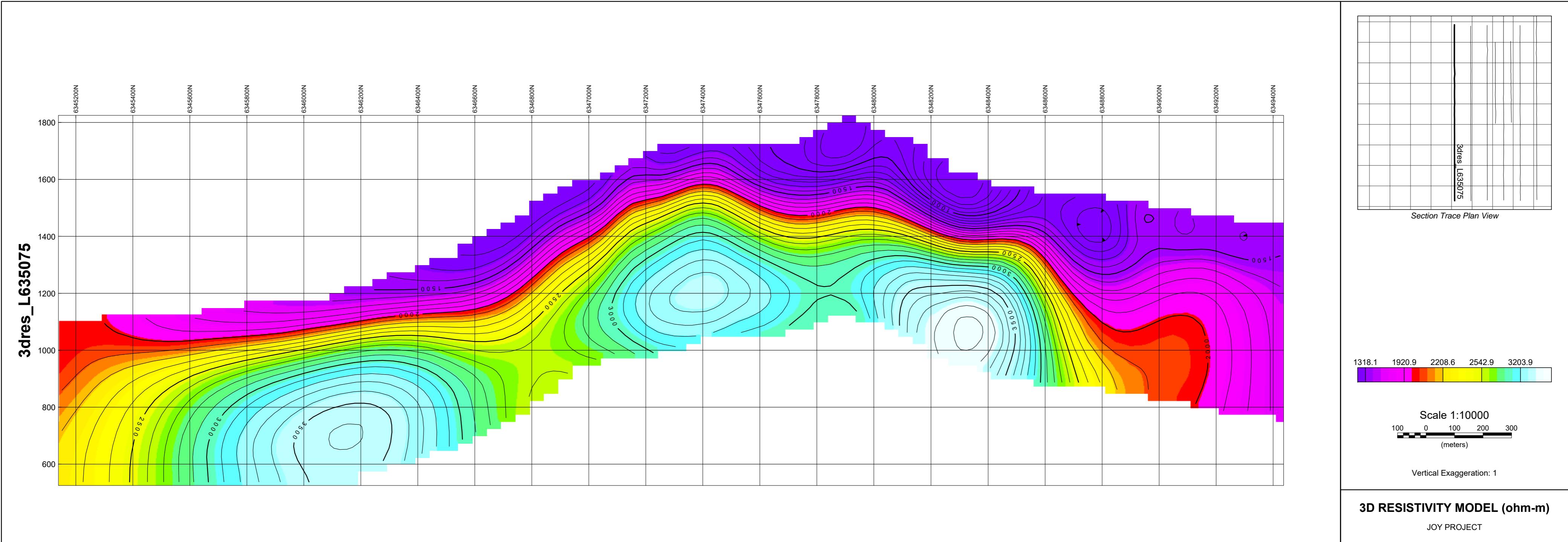
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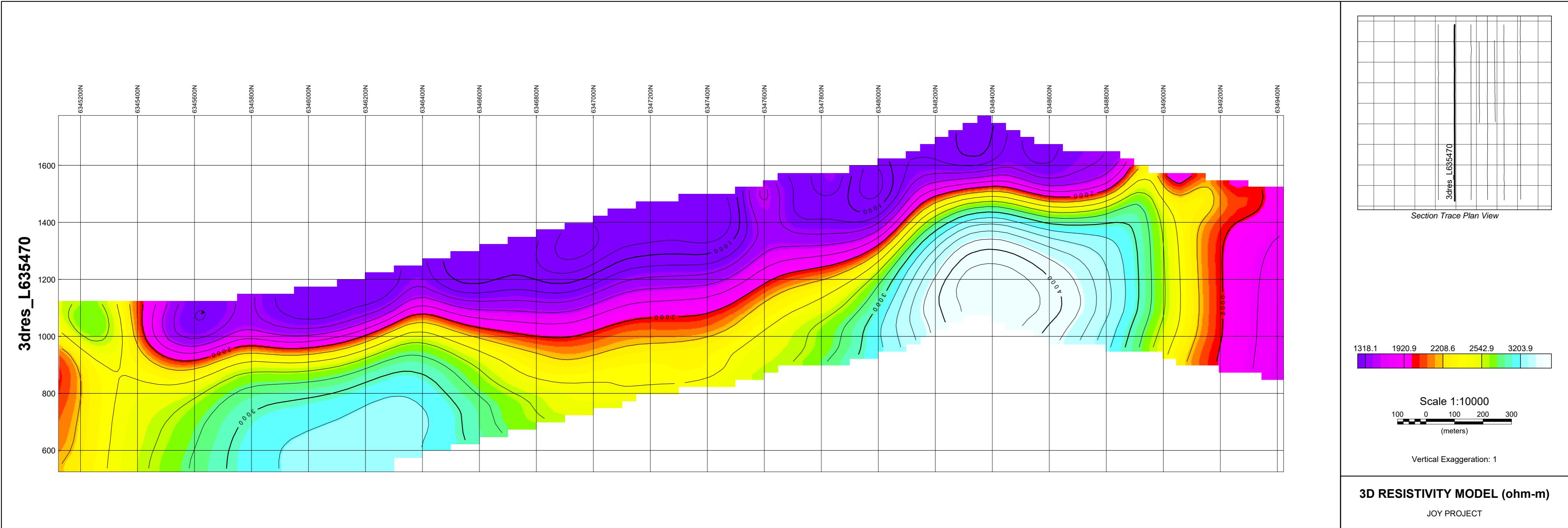
3D CHARGEABILITY MODEL (mV/V)

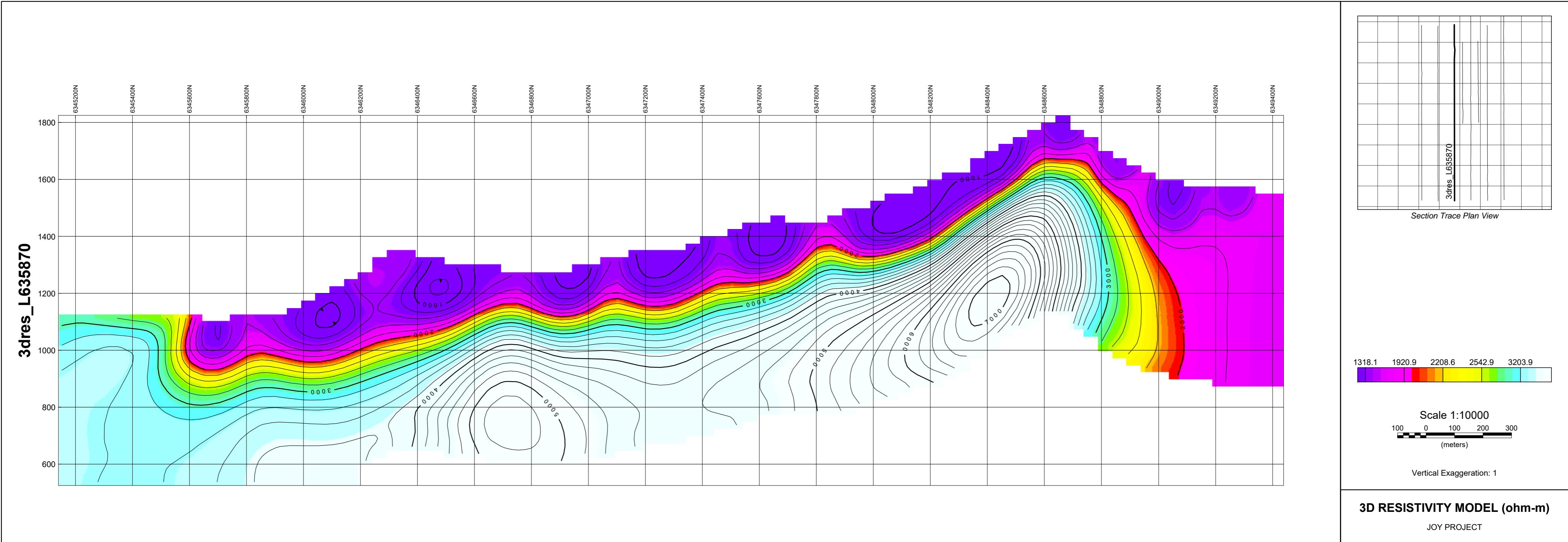
"JOY PROJECT"



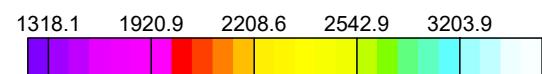
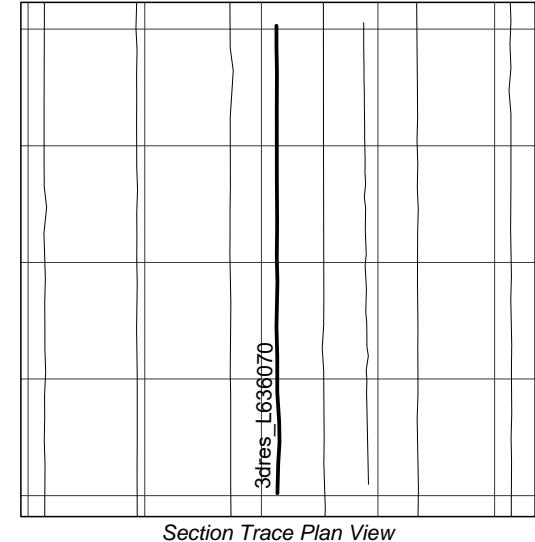
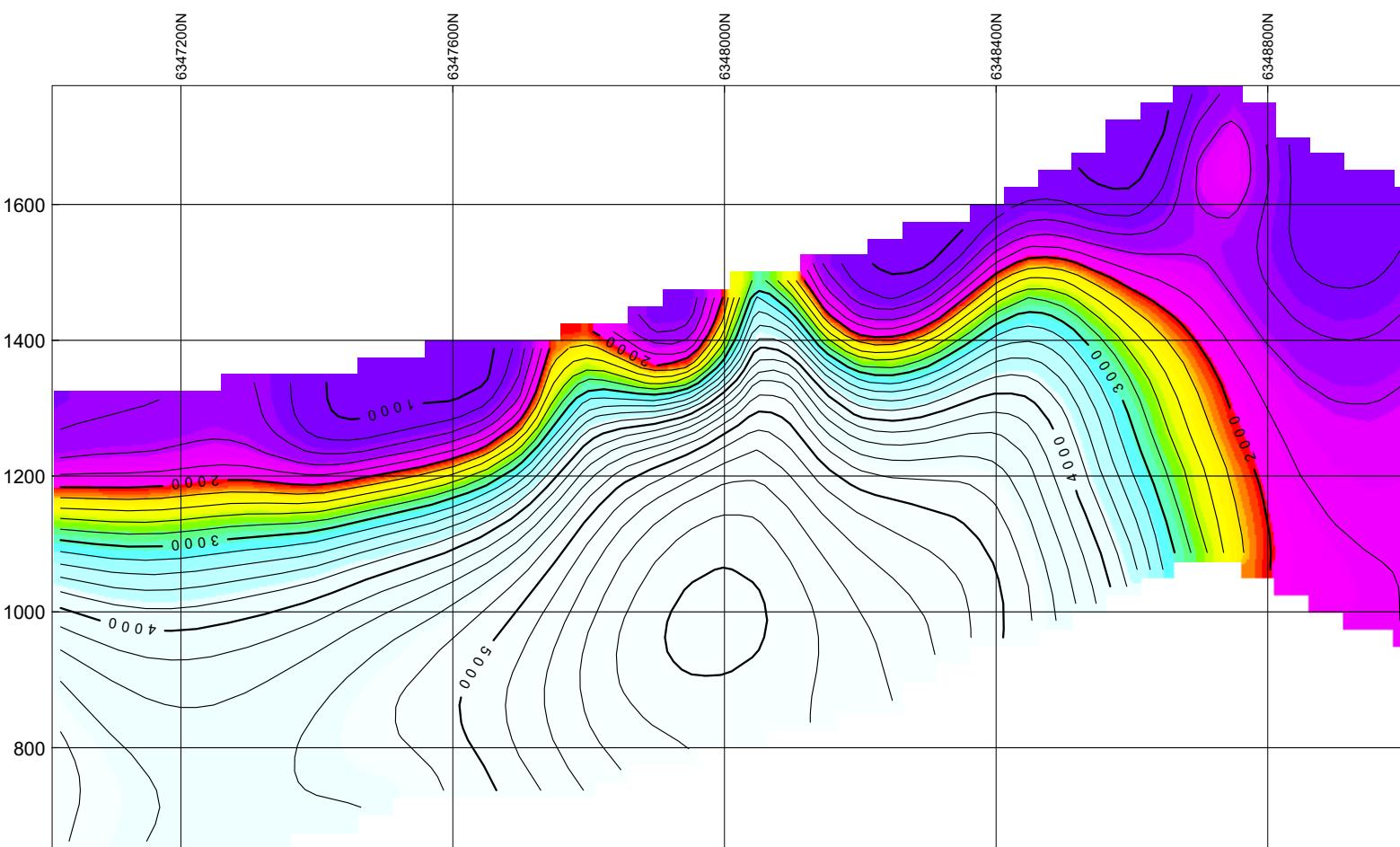




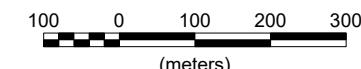




3dres_L636070



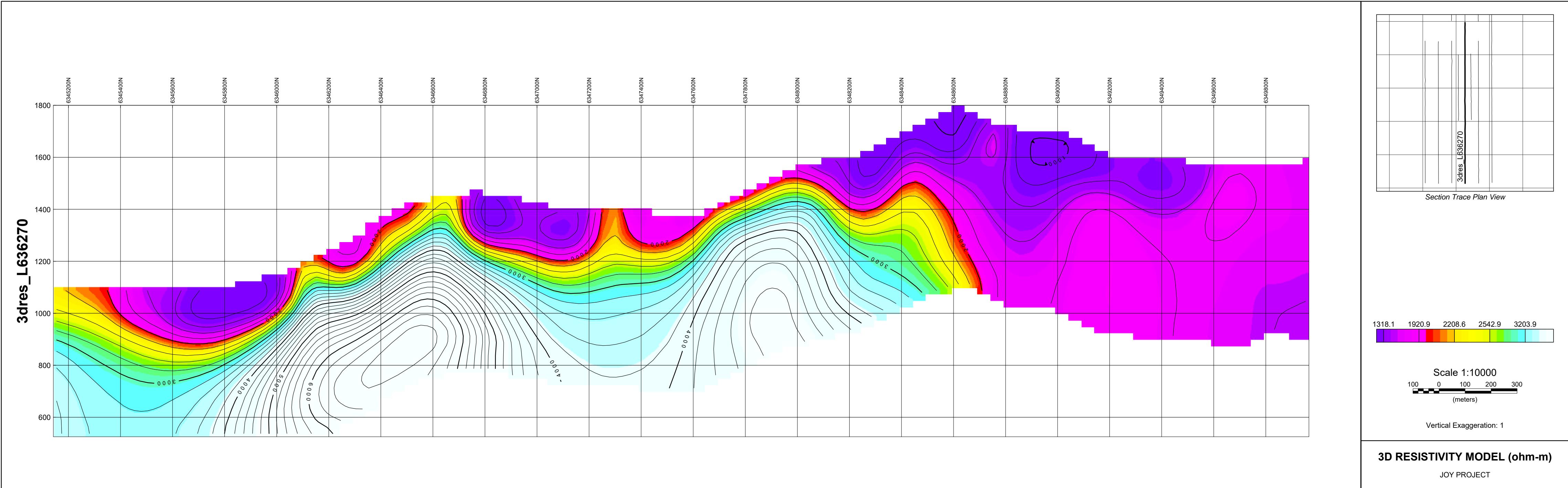
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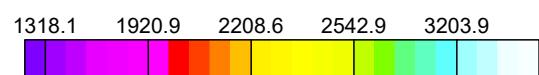
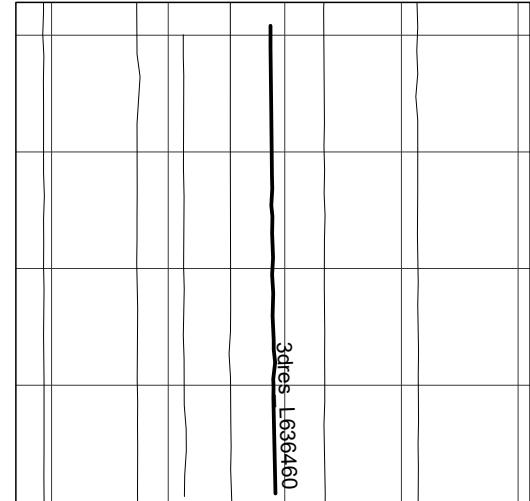
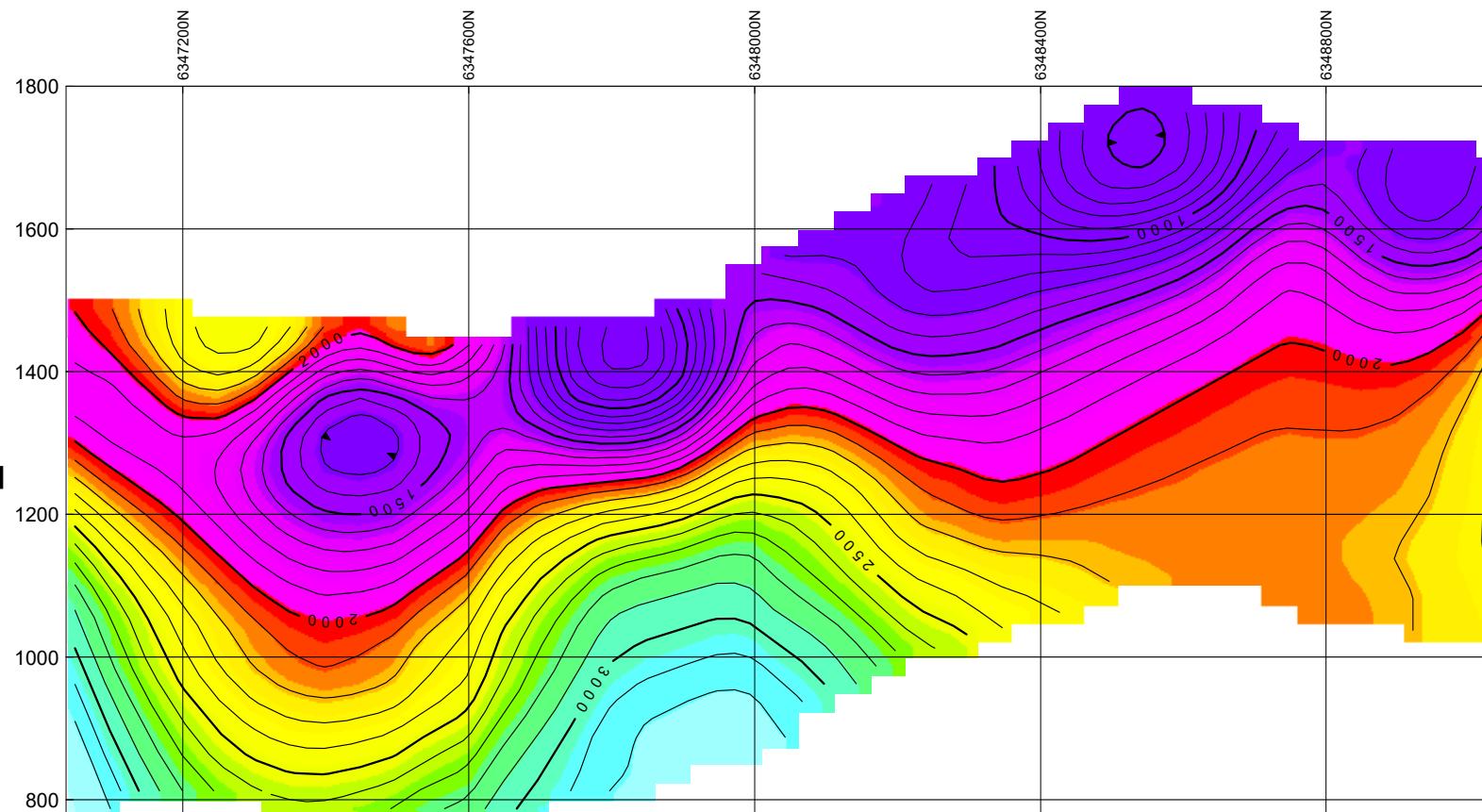
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3D RESISTIVITY MODEL (ohm-m)

JOY PROJECT



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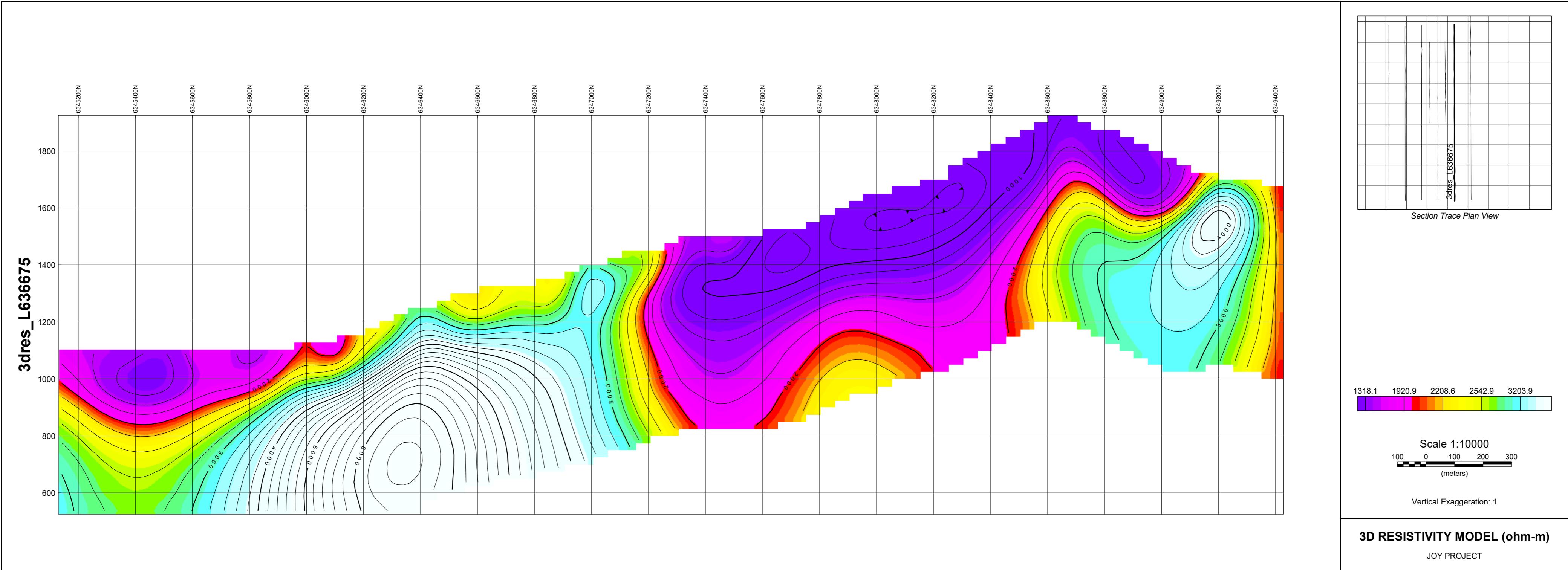


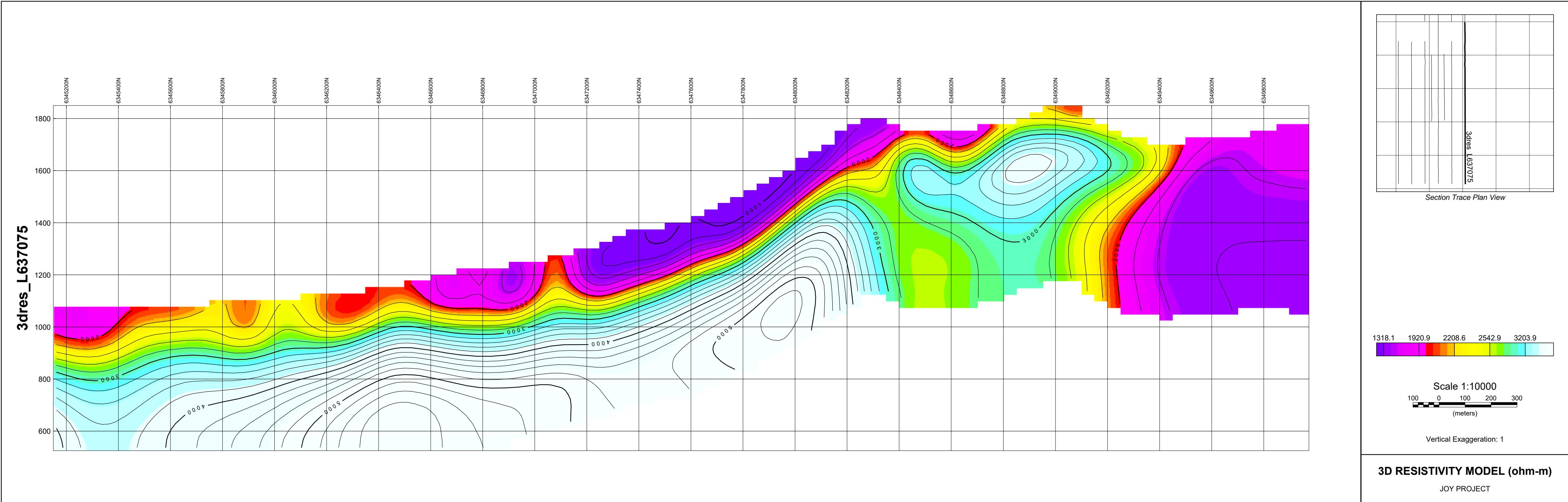
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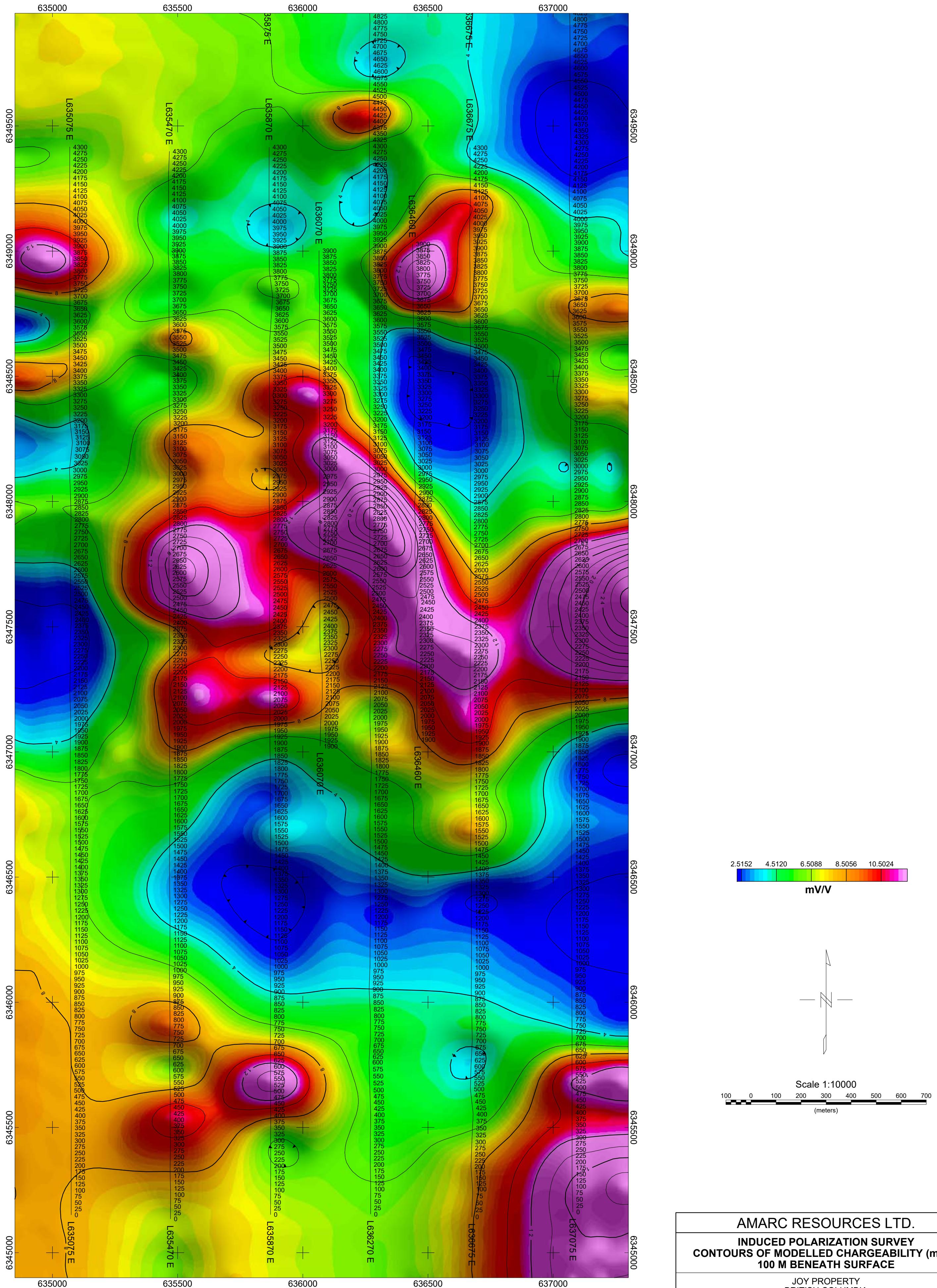
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3D RESISTIVITY MODEL (ohm-m)

JOY PROJECT



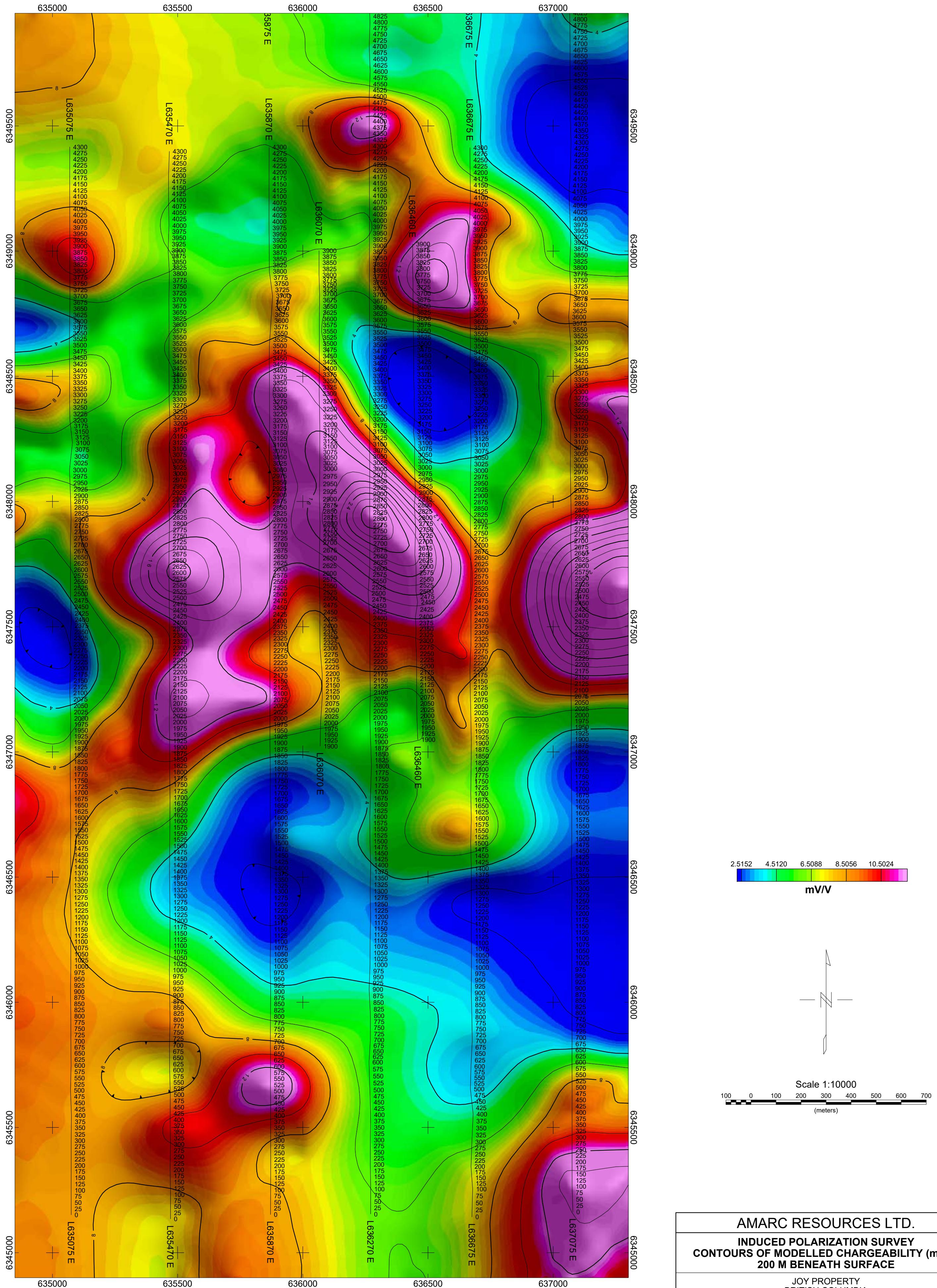




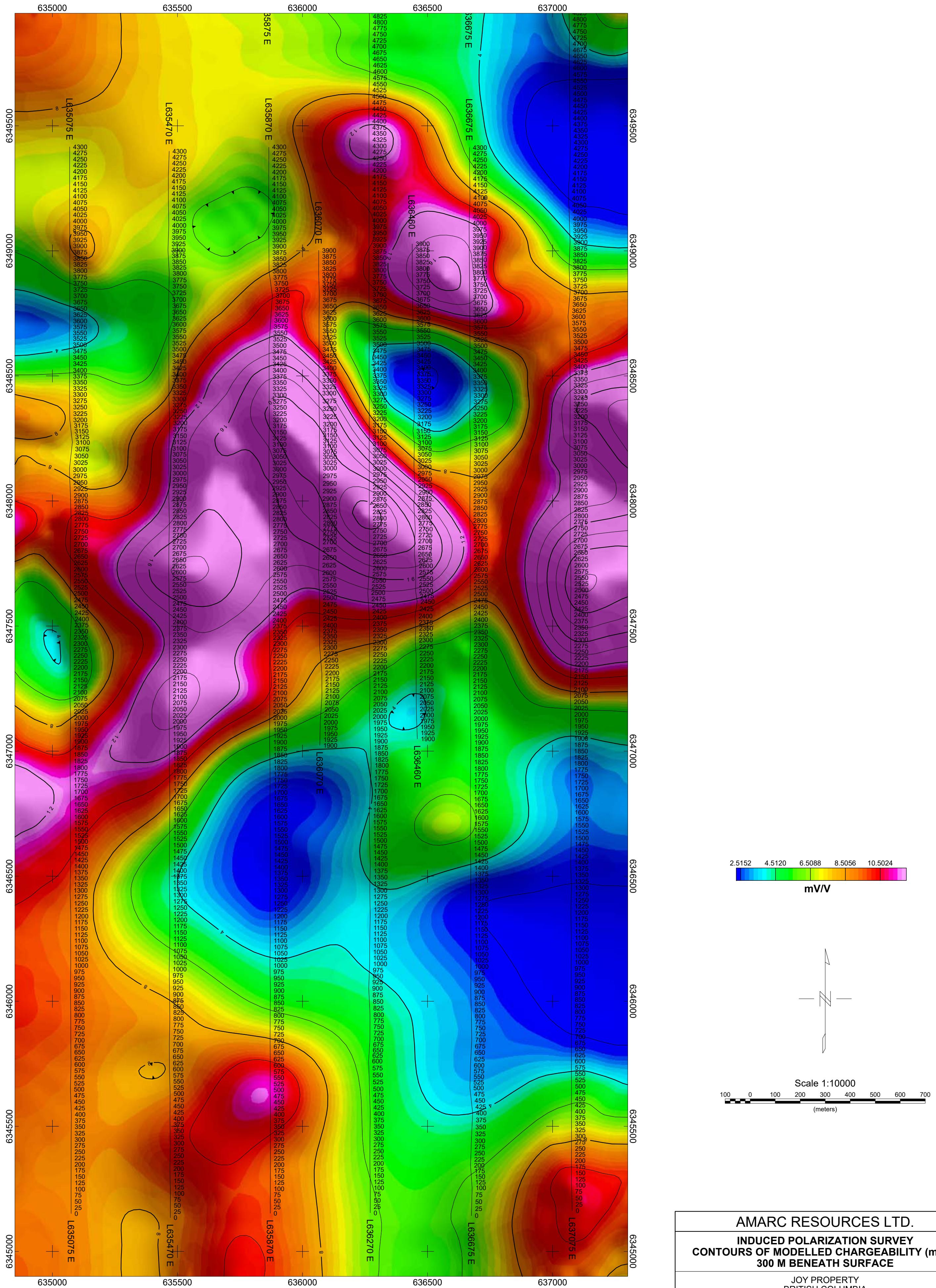
AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOURS OF MODELED CHARGEABILITY (mV/V)
100 M BENEATH SURFACE

JOY PROPERTY
BRITISH COLUMBIA
SUMMER 2017

PETER E. WALCOTT & ASSOCIATES LIMITED



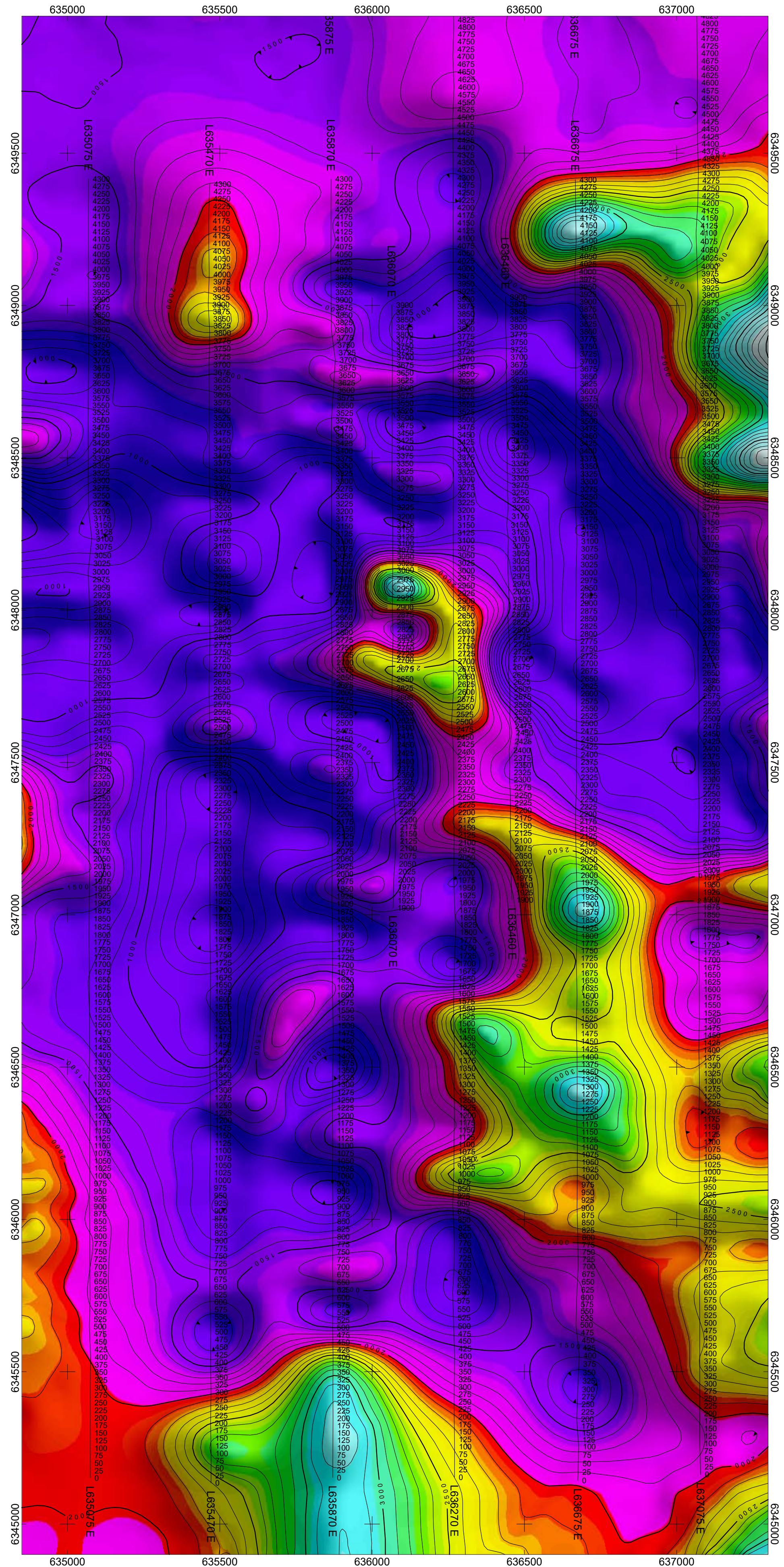
AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOURS OF MODELED CHARGEABILITY (mV/V)
200 M BENEATH SURFACE
JOY PROPERTY
BRITISH COLUMBIA
SUMMER 2017
PETER E. WALCOTT & ASSOCIATES LIMITED



AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOURS OF MODELED CHARGEABILITY (mV/V)
300 M BENEATH SURFACE

JOY PROPERTY
 BRITISH COLUMBIA
 SUMMER 2017

PETER E. WALCOTT & ASSOCIATES LIMITED

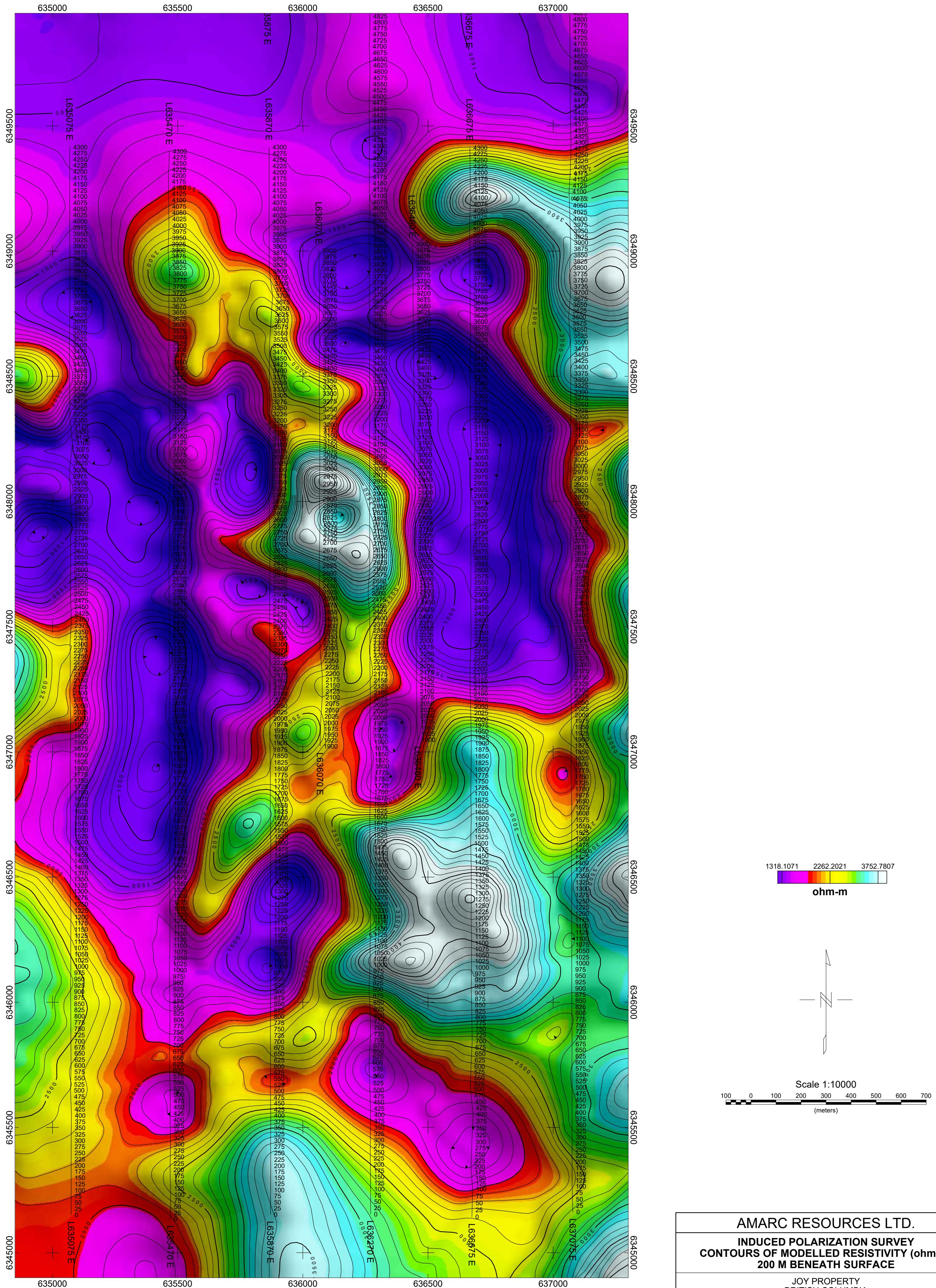


AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOURS OF MODELED RESISTIVITY (ohm-m)
100 M BENEATH SURFACE

JOY PROPERTY
 BRITISH COLUMBIA
 SUMMER 2017

PETER E. WALCOTT & ASSOCIATES LIMITED

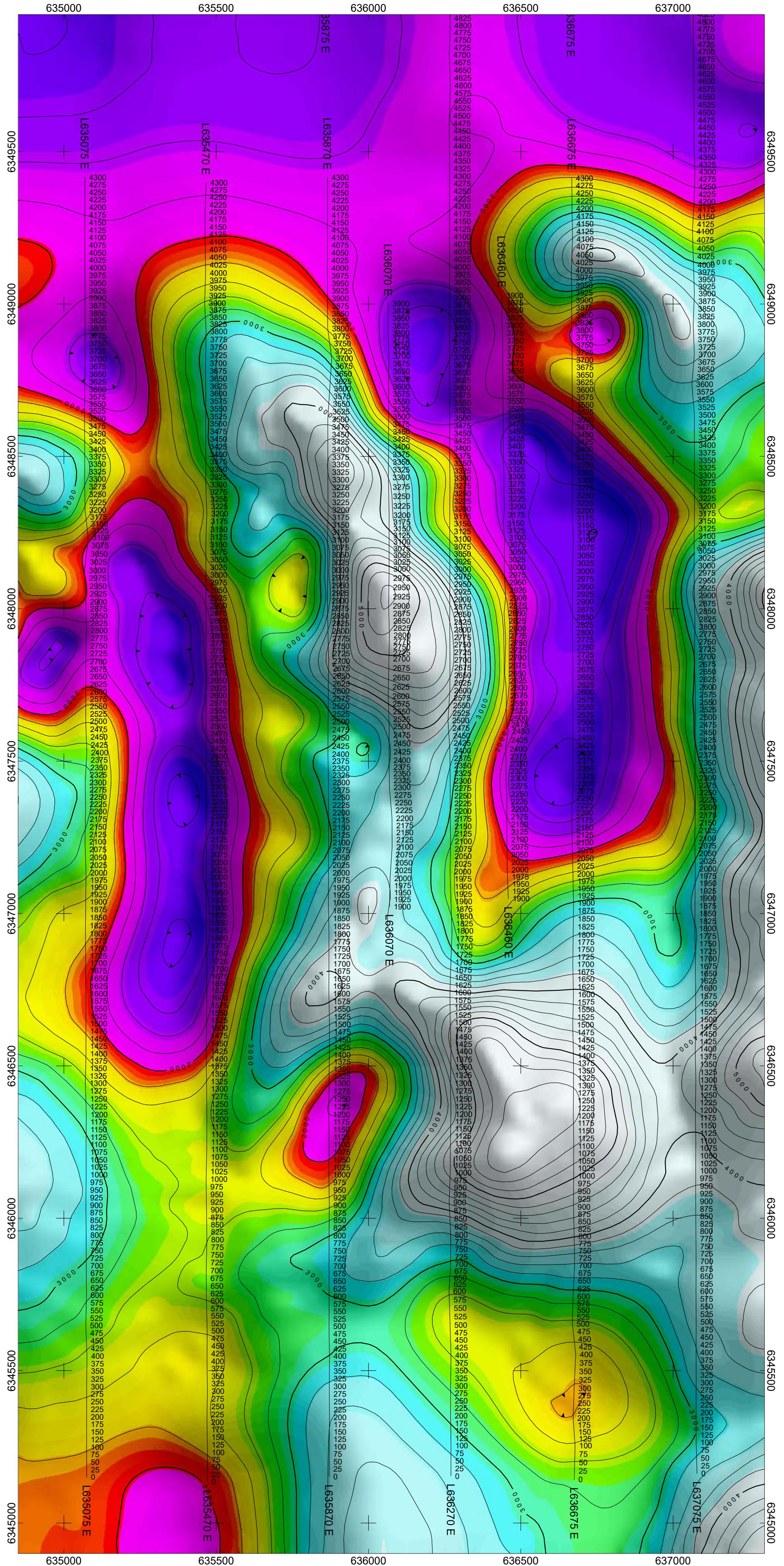
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AMARC RESOURCES LTD.
INDUCED POLARIZATION SURVEY
CONTOURS OF MODELED RESISTIVITY (ohm-m)
200 M BENEATH SURFACE

JOY PROPERTY
 BRITISH COLUMBIA
 SUMMER 2017

PETER E. WALCOTT & ASSOCIATES LIMITED



**A LOGISTICS REPORT
ON
A HELIBORNE MAGNETIC SURVEY
JOY PROPERTY
TOODOGGONE AREA, BRITISH COLUMBIA**

**OMINECA M.D.
57° 16.8'N, 126° 44.6'W
NTS 94E/07**

Claims:

**522028,522030-522033,522039,522040,522043,
522048,1043004,1052971,1052970**

**Work Dates:
June 8th -10th, 2017
July 24th-25th, 2017
September 4th-5th, 2017**

**FOR
AMARC RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA
BY
ALEXANDER WALCOTT, B.Sc
PETER E. WALCOTT & ASSOCIATES LIMITED
Coquitlam, British Columbia
JANUARY 2018**

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PROPERTY, LOCATION AND ACCESS.....	4
SURVEY SPECIFICATIONS.....	6
DATA PROCESSING AND PRESENTATION.....	8

APPENDIX I

Personnel Employed on Project

ACCOMPANYING MAPS

JOY BLOCK

Claim and Flight Line Map	Scale 1:20,000
Contours of Total Field Intensity	Scale 1:20,000
Contours of Calculated Vertical Gradient	Scale 1:20,000
Contours of Tilt Derivative	Scale 1:20,000

INTRODUCTION.

Between June and September of 2017, Peter E. Walcott & Associates Limited undertook a heli-borne magnetic survey over parts of the Joy property for Amarc Resources Ltd.

The survey consisted of some 820 line kilometers of airborne magnetics flown with a nominal line spacing of some 100 meters on east-west orientated lines, and with north-south tie lines spaced with a nominal line spacing between 500-1000 meters.

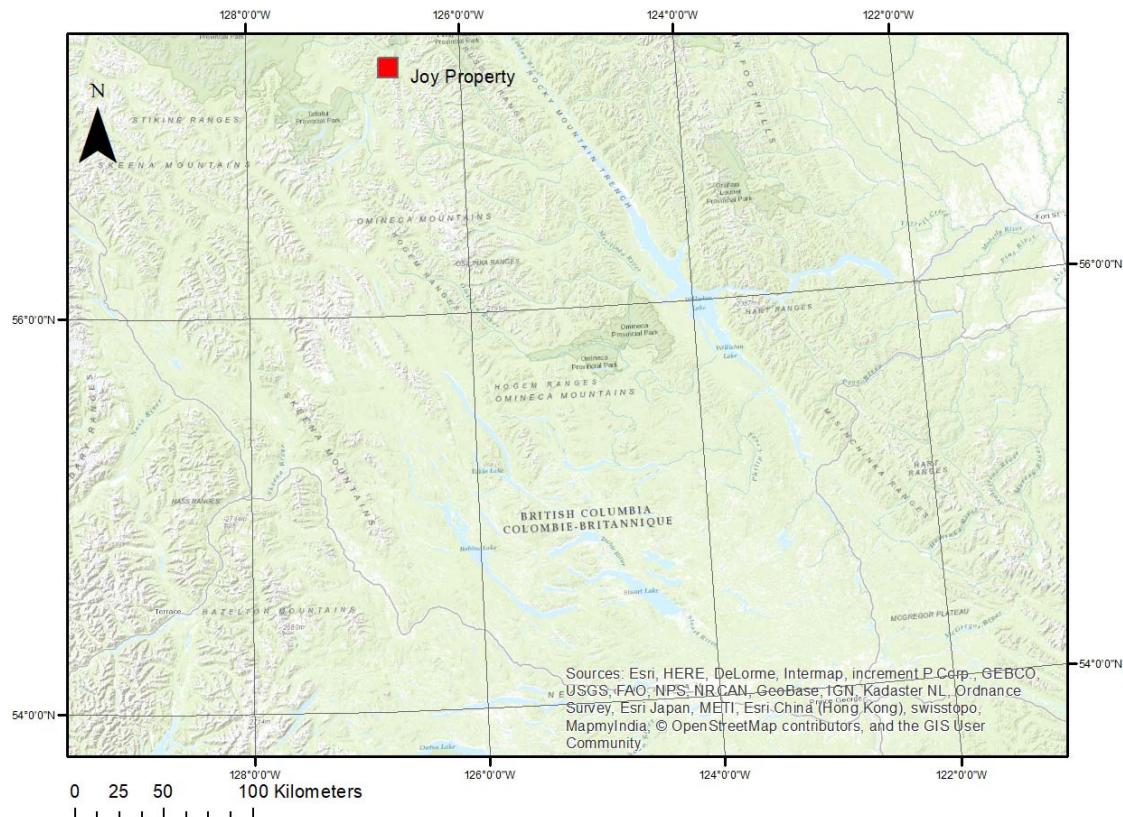
The survey was flown on three separate occasions. The initial attempt was hampered due to extreme winds which prevented the safe operation in the rugged terrain. A second attempt was made using the ground project support helicopter, however was aborted due to lack of geophysical flying experience of the pilot. The project was then completed in early September when a suitable machine and pilot was available.

PROPERTY LOCATION AND ACCESS

The Joy project is located within the Omineca mountains of north-central some 450 kilometres northwest of the Prince George, British Columbia.

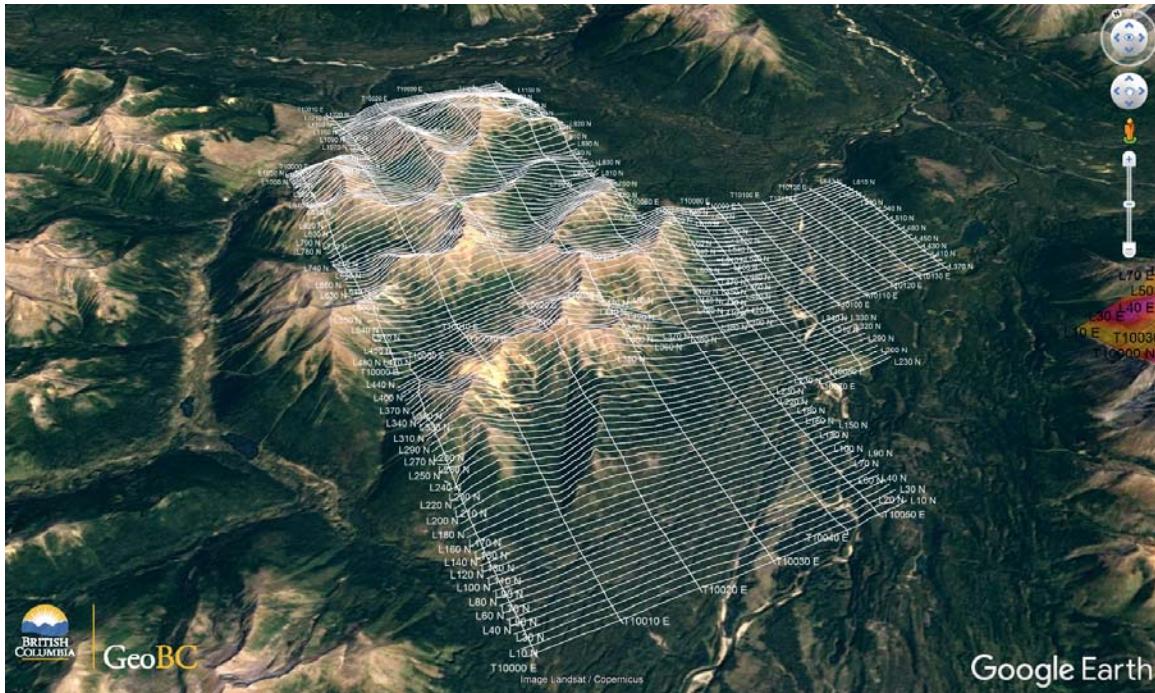
Access to the property can be gained via the Omineca Resource road, then a network of spur roads to the Black Lake Camp, where the crew was house for the duration of the survey. Alternatively, fixed wing service by means of float plane to Black Lake, or wheeled plane to the Sturdee airstrip can utilized from several communities.

Access to the survey area from the Black Lake camp can then be gained by helicopter.



Property Location Map

PROPERTY LOCATION AND ACCESS con't



Flight Block in Google Earth

SURVEY SPECIFICATIONS.

The Airborne Magnetic Survey.

The airborne magnetic survey was conducted using a bird type system towed on a 65' line. The survey used three separate helicopter companies as; Bell 206 L3 CF-JOR, operated by Fireweed Helicopters Ltd, A-Star B2 operated by Mustang Helicopters and a A-Star BA operated by Silver King Helicopters.

The bird unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, AR3000 Laser Range Finder manufactured by Acuity of Portland, Oregon and a 19x GPS manufactured by Garmin International Inc. of Kansas City, Kansas.

The C-824 Cesium Magnetometer is a highly sensitive magnetic sensor capable of providing sensitivity up to 0.01 nT and sampling rates up to 1000 Hz. On this survey a sampling rate of 10 Hz was employed.

The respective components were in turn connected to the helicopter via a shielded multi-conductor cable within the tow line for power and data transmission to the logging units on the helicopter.

Flight line navigation data was obtained using Hemisphere R330 GNSS receiver with a 10 Hz update rate.

Data logging and navigation were carried out utilizing Geometrics MagLogPro software on a Panasonic CF-19 Toughbook computer with a secondary 7" daylight viewable pilot navigation monitor.

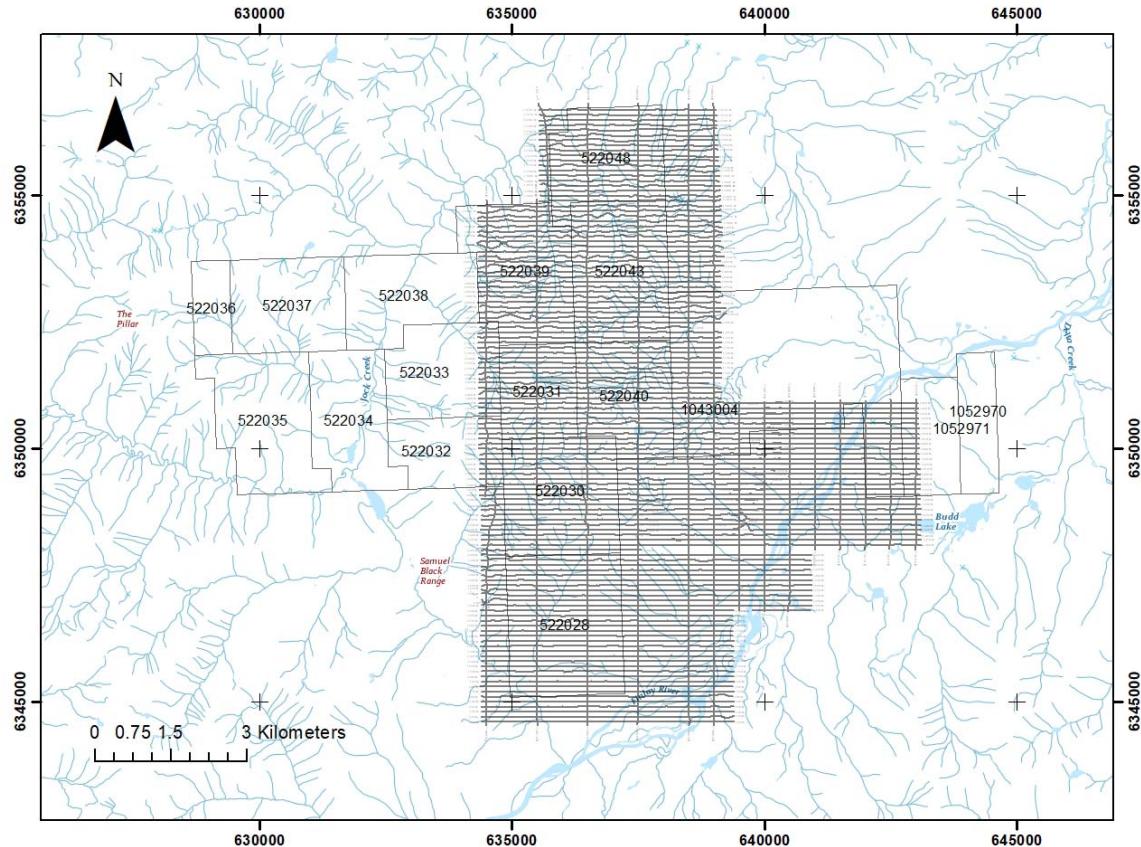
In addition to the airborne unit the survey also utilized two GSM 19 overhauser magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario as base magnetometers. These instruments measure variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla.

SURVEY SPECIFICATIONS cont'd

The survey coverage consisted of some 159 east-west orientated flight lines and 18 orthogonal tie lines.

The survey was carried out with a mean bird height of some 58 meters.

Survey Area	# of Lines	# of Tie Lines	Total Distance
Lisa	159	18	820 km



Flight Lines

DATA PROCESSING AND PRESENTATION.

The data was first exported from MagLogPro, where the various sensor inputs were merged into Geosoft compatible ascii files. This merged dataset was then loaded into Geosoft Oasis Montaj for data reduction and processing.

The data was first corrected for diurnal magnetic drift, utilizing the magnetic base stations. The data was then lag corrected to account for positioning errors due to instrument delay and other positional errors. Tie line levelling was then undertaken prior to gridding.

Gridding was then undertaken on the levelled line data utilizing Geosoft's Rangrid algorithm using a 15 meter cell size.

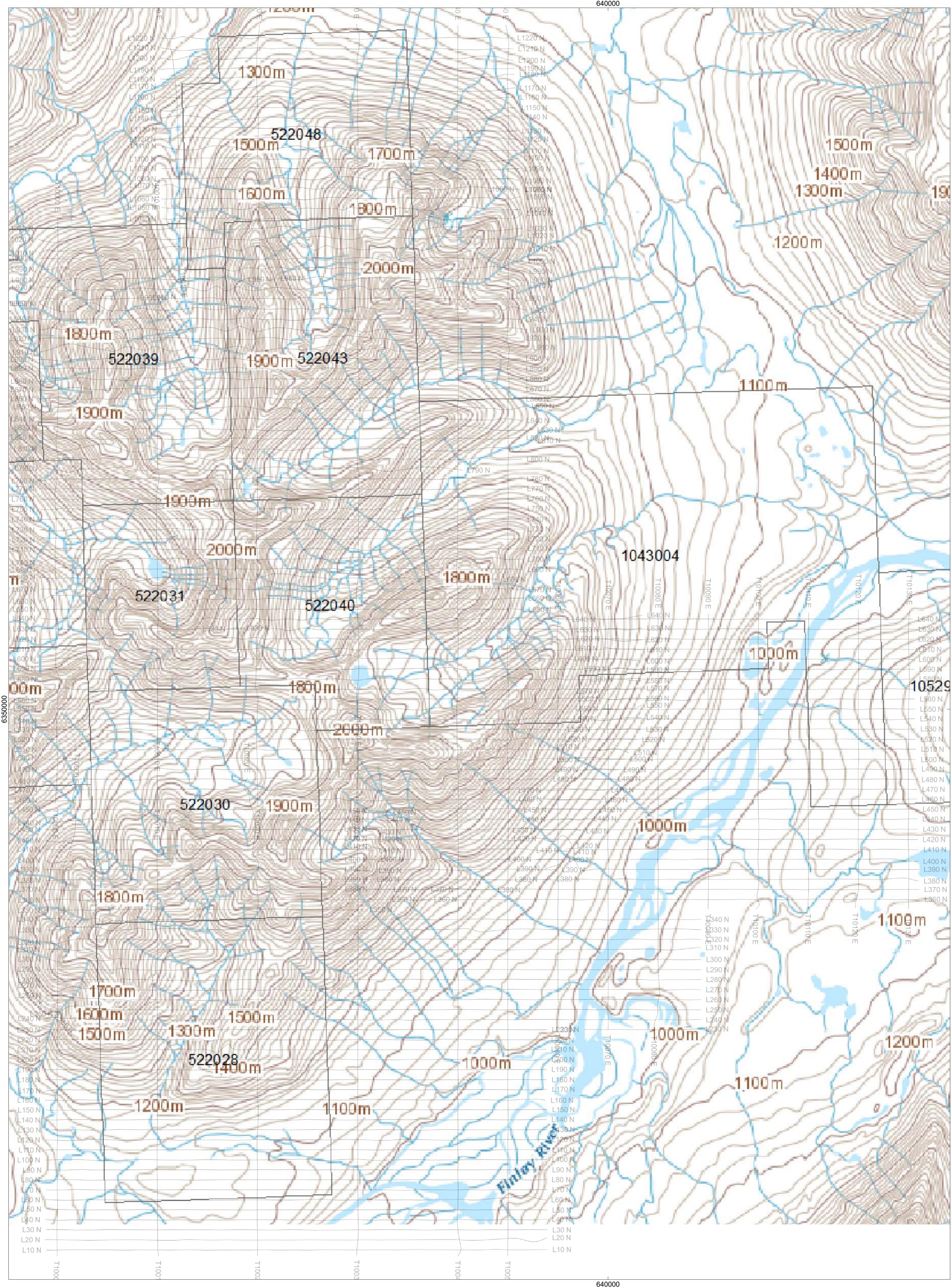
The reduced and leveled data set was then subject to several filtering techniques using the Geosoft MagMap module for evaluation and presentation.

The magnetic data for each of the respective blocks presented in this report is Contours of Total Magnetic Intensity, Contours Calculated First Vertical Derivative, and Contours of the Tilt Derivative at a scale of 1:20,000.

APPENDIX I

PERSONNEL EMPLOYED ON PROJECT.

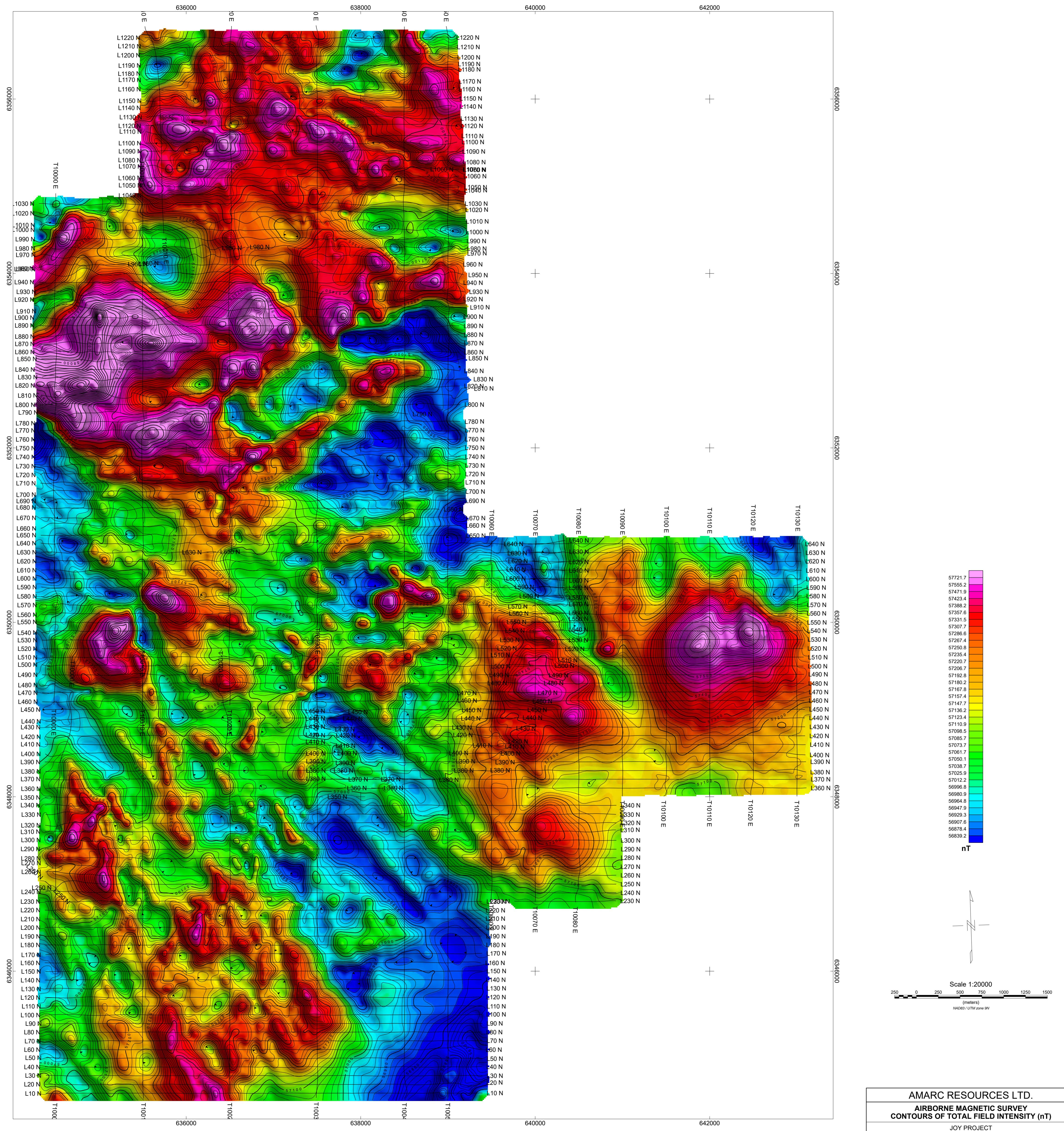
Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Unit 111- 17, Fawcett Rd. Coquitlam, B.C. V3K 6V2	
Alexander Walcott	"	"	June 8-10th, 2017 July 24-25 th , 2017 Sept 4 th - 5 th , 2017
West Luck	Pilot Fireweed Helicopters		June 8-10 th , 2017
Darren	Pilot Mustang Helicopters		July 24-25 th , 2017
Pierre Bernier	Pilot Mustang Helicopters		September 4-5 th , 2017

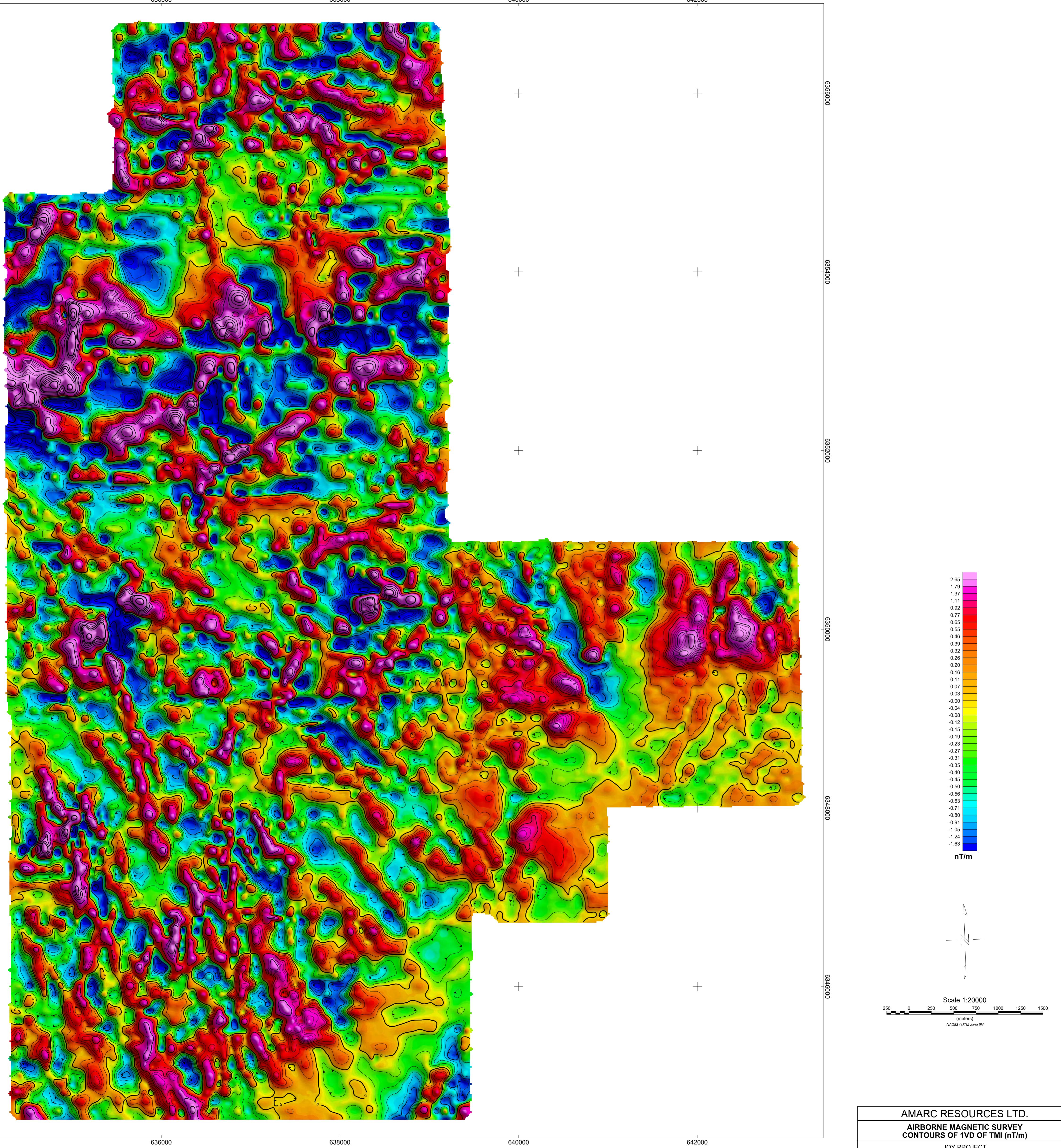


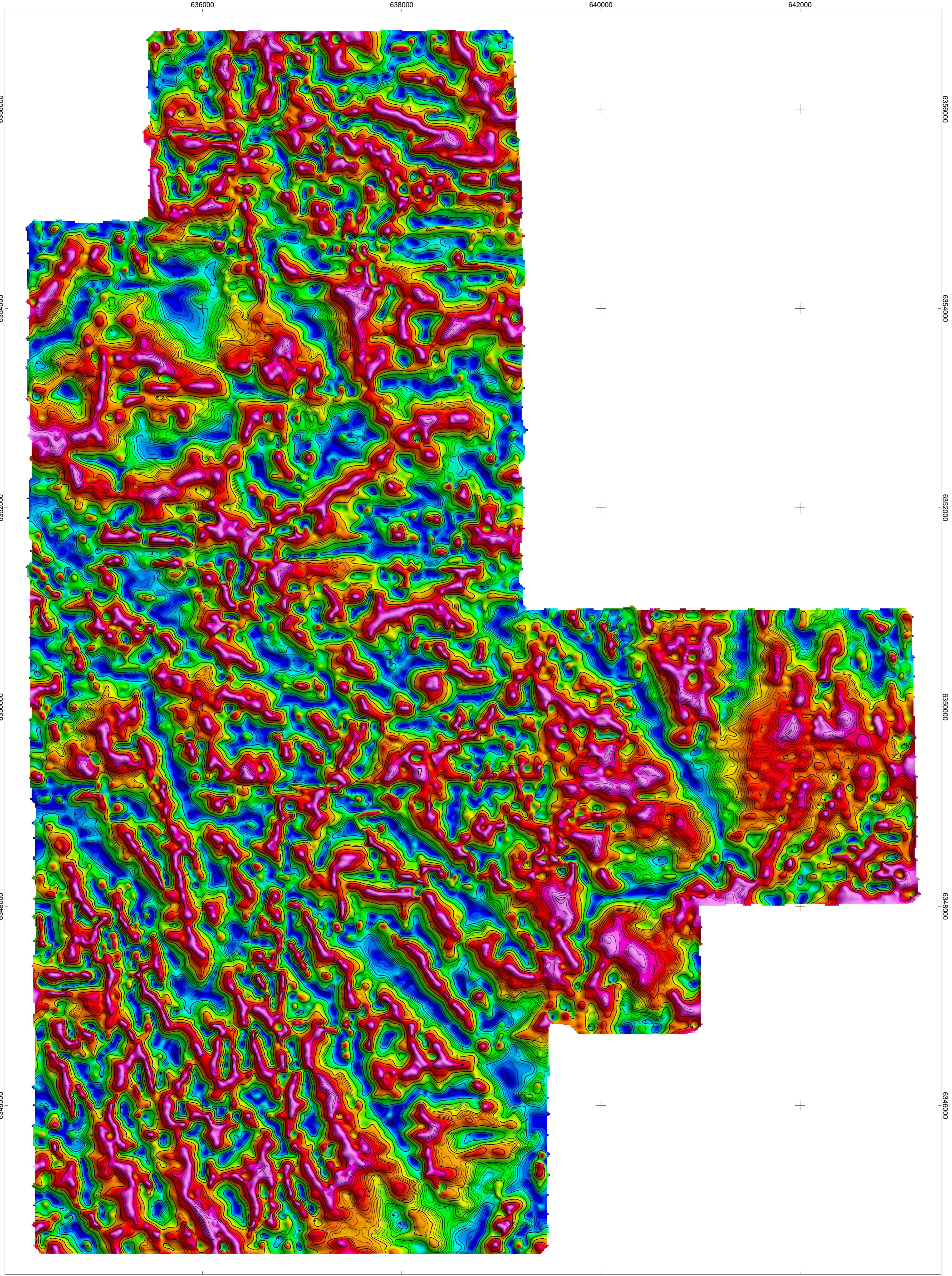
AMARC RESOURCES LTD.

**AIRBORNE MAGNETIC SURVEY
CLAIM AND LINE LOCATION MAP**

JOY PROJECT TOODOGGONE AREA,







AMARC RESOURCES LTD.
AIRBORNE MAGNETIC SURVEY
CONTOURS OF TILT DERIVATIVE
JOY PROJECT
TOODOGONE AREA,
PETER E. WALCOTT & ASSOCIATES LIMITED

Appendix G - Rock Sample Descriptions from Geological Mapping

Zone	E	N	Elev	Sample #	Assay #	Outcrop Description	Lithology	Alteration	Ore Mineralogy
9V	635311	6348207	1758	RGJY023B	952365	msv qz-py (some "banding"-like textures) porphyritic clast	altered rhyolite?	strong QSP, rarely vuggy-looking	5-10% py, loc leached
9V	635733	6348500	1797	RGJY032	952366	supptd breccia with pyrite clasts	hydrothermal breccia	strong QSP (coarse sericite)	py
9V	636294	6348073	1622	RGJY043	952367	leached py cem clast supptd bx	fs-phyric	strong QSP	5% py
9V	636677	6348660	1948	RGJY060	952368	leached qz-ser(?)-py altd rock	pervasive alteration	QSP	qz-py vnlts
9V	637125	6349110	1887	RGJY081	952369	40% fs bearing, dis sx	QSP zone 5-10m wide	mod-strong QSP	3-5% py, loc grey sulphide - sph/gal?
9V	636628	6353073	1923	RGJY200	952370	vuggy qz-py breccia vein angular clast supported bx fs>qz	vein breccia	n/a	vuggy qz-py-spec? vein bx
9V	637864	6350003	1714	RGJY311	952371	phyric clasts in mtx with << fs>qz phenocryst; qz not resorbed	FLOAT monzogranite breccia		3-5% cg py, disseminated or clasts of cg py
9V	636376	6350286	1783	RGJY407	952372	from old trenches; no phns, dis py	lithic lapilli tuff	QSP	qz-calcite-py-grey sulphide vein
9V	635704	6349050	1650	RGJY440	952373	40% 1-3mm blocky pinkish plag, dis py	fs-bearing mafic rock	wk QSP	py, 0.5-3%
9V	635592	6349135	1647	RGJY443	952374	mottled fs-rich	altered granitoid	strong K-alteration	qz-py veins, 5% py
9V	635270	6348419	1687	RGJY458	952375	35% 1-3mm white plag, 5% dis py	poss AFT or reworked same?	qz-py rock	7% fg dis py
9V	634909	6347975	1800	RGJY479B	952376	pink plag phyc, amygdaloidal rock	altered flow	n/a	gash-like barite(?) veins
9V	638825	6348239	1179	RGJY555B	952377	monzogranite	monzogranite	sericite	qz-py(-sph?) vns
9V	638862	6348205	1166	RGJY556B	952378	very fractured	monzogranite	unclear; possibly mafics to chlorite	py on fracs, rare dis py

Appendix G - Rock Sample Descriptions from Geological Mapping

Zone	E	N	Elev	Sample #	Assay #	Outcrop Description	Lithology	Alteration	Ore Mineralogy
9V	637399	6350735	1674	RGJY565	952379	feldspar phryic rock dark clasts of more py-rich rock in aphanitic pale mtx	FLOAT - 3cm qz vein monzogranite matrix supported breccia	n/a	coarse diss py, musc, py & malachite cal-qz-py vn
9V	637675	6351057	1631	RGJY572	952381	altered bt-bearing wallrock FLOAT A: 20%, plаг >> qz, subporphyritic plаг, disseminated py	monzogranite	mica loc fs to ep; qz-cpy//mafics to chl-dis py vns, also qz-ep//chl veins	qz-py-gal vein, 3cm, 5% total sulphide qz-cpy//chl-dis py vns, also qz-ep//chl veins
9V	637535	6346399	1120	RGJY589	952382	grey sx/ox has good cleavage, sometimes platy habit,	monzogranite	QSP (cg py)-chl-spec?-mt?-spec? in hangingwall of fault	poss specularite? qz>cal gangue (& assoc cg py)
9V	637416	6345434	1058	RGJY598A	952383	40% 1-3mm fs w/ irregular dark cores and white (ser?) rims in stained slab, dis py	fault ga	cg qz-grey sx-py-adularia?? Vein	
9V	637375	6345458	1068	RGJY601	952385	30% 1-3mm pink plаг, 10% mafics (largely repl by py), rare partially res qz	monzogranite	mod QSP-chl	possible specularite

Appendix G

SAMPLE	Easting	Northing	Sample Type
952365	635311	6348207	Rock
952366	635733	6348500	Rock
952367	636294	6348073	Rock
952368	636677	6348660	Rock
952369	637125	6349110	Rock
952370	636628	6353073	Rock
952371	637864	6350003	Rock
952372	636376	6350286	Rock
952373	635704	6349050	Rock
952374	635592	6349135	Rock
952375	635270	6348419	Rock
952376	634909	6347975	Rock
952377	638825	6348239	Rock
952378	638862	6348205	Rock
952379	637399	6350735	Rock
952380	637469	6350811	Rock
952381	637675	6351057	Rock
952382	637535	6346399	Rock
952383	637416	6345434	Rock
952384	637416	6345434	Rock
952385	637375	6345458	Rock
718951	636455.58	6347150.92	Soil
718952	636458.903	6347045.847	Soil
718953	635867.051	6348742.285	Soil
718954	635866.91	6348847.93	Soil
718955	635871.417	6348943.859	Soil
718956	635867.369	6349050.589	Soil
718957	635868.606	6349148.202	Soil
718958	635864.855	6349247.359	Soil
718959	635868.124	6349349.615	Soil
718960	635867.397	6349445.109	Soil
718961	635869.139	6349546.381	Soil
718962	635867.057	6349643.847	Soil
718963	635863.14	6350646.588	Soil
718964	635866.847	6350553.742	Soil
718965	635863.634	6350451.581	Soil
718966	635866.863	6350348.541	Soil
718967	635867.056	6350252.721	Soil
718968	635863.976	6350152.908	Soil
718969	635862.763	6350055.248	Soil
718970	635860.329	6349948.155	Soil
718971	635865.786	6349851.893	Soil
718972	635863.328	6349752.698	Soil
718973	635858.175	6353948.757	Soil
718974	635862.592	6353851.956	Soil
718975	635856.81	6353753.005	Soil

Appendix G

718976	635860.718	6353653.227	Soil
718977	635864.946	6353548.986	Soil
718978	635863.925	6353449.11	Soil
718979	635859.025	6353351.263	Soil
718980	635864.583	6353245.75	Soil
718981	635861.267	6353152.11	Soil
718982	635858.284	6353051.908	Soil
718983	635863.755	6352945.981	Soil
718984	635860.924	6352850.051	Soil
718985	635862.969	6352746.821	Soil
718986	635862.014	6352639.692	Soil
718987	635860.269	6352551.539	Soil
718988	635862.207	6352455.039	Soil
718989	635861.633	6352353.338	Soil
718990	635840.861	6352241.117	Soil
718991	636434.515	6348647.42	Soil
718992	636435.507	6348746.538	Soil
718993	636433.194	6348852.42	Soil
718994	636432.387	6348980.548	Soil
718995	636666	6349150	Soil
718996	636659.54	6349246.084	Soil
718997	636668.359	6349347.135	Soil
718998	636669.507	6349446.708	Soil
718999	636668.127	6349545.748	Soil
719000	636669.29	6349645.62	Soil
741451	635867.403	6348653.661	Soil
741452	635867.591	6348550.25	Soil
741453	635869.509	6348450.518	Soil
741454	635869.974	6348352.793	Soil
741455	635867.011	6348242.125	Soil
741456	635871.027	6348139.718	Soil
741457	635863.715	6348036.413	Soil
741458	635872.605	6347949.715	Soil
741459	635866.755	6347850.726	Soil
741460	635871.843	6347751.221	Soil
741461	635873.858	6347648.374	Soil
741462	635869.602	6347550.885	Soil
741463	635867.303	6347453.265	Soil
741464	635869.885	6347355.919	Soil
741465	635870.796	6347249.095	Soil
741466	635872.087	6347152.499	Soil
741467	635872.623	6347048.11	Soil
741468	635872.286	6346951.778	Soil
741469	635872.038	6346848.754	Soil
741470	635868.42	6346745.347	Soil
741471	635870.996	6346651.68	Soil
741472	635867.545	6346551.939	Soil

Appendix G

741473	635870.912	6346452.088	Soil
741474	635870.169	6346349.599	Soil
741475	635873.403	6346251.798	Soil
741476	635870.318	6346146.457	Soil
741477	635871.824	6346053.445	Soil
741478	635871.307	6345950.198	Soil
741479	635874.198	6345850.21	Soil
741480	635870.951	6345754.183	Soil
741481	635878.294	6345649.851	Soil
741482	635872.713	6345547.977	Soil
741483	635871.423	6345450.661	Soil
741484	635874.296	6345349.337	Soil
741485	635873.033	6345250.099	Soil
741486	635873.575	6345151.257	Soil
741487	636437.043	6348557.905	Soil
741488	636440.177	6348450.93	Soil
741489	636437.002	6348349.265	Soil
741490	636437.139	6348249.791	Soil
741491	636440.976	6348151.17	Soil
741492	636444.09	6348051.795	Soil
741493	636445.796	6347954.438	Soil
741494	636440.938	6347836.814	Soil
741495	636449.608	6347748.428	Soil
741496	636452.826	6347650.038	Soil
741497	636448.15	6347548.07	Soil
741498	636448.546	6347450.333	Soil
741499	636453.31	6347350.967	Soil
741500	636454.453	6347251.929	Soil
781651	637470.954	6350951.967	Soil
781652	637465.004	6350848.603	Soil
781653	637469.171	6350754.825	Soil
781654	638263.041	6351940.938	Soil
781655	638271.343	6351846.743	Soil
781656	638270.261	6351750.002	Soil
781657	638270.914	6351648.307	Soil
781658	638273.348	6351547.452	Soil
781659	638268.992	6351451.159	Soil
781660	638272.657	6351351.348	Soil
781661	638277.709	6351253.366	Soil
781662	638270.211	6351103.49	Soil
781663	638271.826	6351048.397	Soil
781664	638273.062	6350954.408	Soil
781665	638274.508	6350850.623	Soil
781666	638261.983	6350754.946	Soil
781667	638284	6350647.732	Soil
781668	638268.886	6350550.074	Soil
781669	638269.25	6350447.923	Soil

Appendix G

781670	638280.025	6350352.029	Soil
781671	638275.54	6350252.277	Soil
781672	638273.782	6350148.607	Soil
781673	638275.857	6350072.696	Soil
781674	637870.016	6349939.168	Soil
781675	637873.256	6350049.348	Soil
781676	637874.777	6350147.774	Soil
781677	637873.414	6350249.444	Soil
781678	637872.369	6350347.003	Soil
781679	637479.388	6350170.607	Soil
781680	637452.41	6350257.159	Soil
781681	637430.744	6350350.908	Soil
781682	637474.56	6350449.858	Soil
781683	637468.838	6350546.814	Soil
781684	637475.408	6350642.512	Soil
781685	637865.394	6350854.572	Soil
781686	637868.351	6350748.609	Soil
781687	637870.873	6350650.209	Soil
781688	637870.938	6350553.062	Soil
781689	637870.622	6350451.112	Soil
952200	635464	6348354	Soil
952201	635466	6348250	Soil
952202	635464	6348149	Soil
952203	635466	6348055	Soil
952204	635466	6347953	Soil
952205	635465	6347854	Soil
952206	635465	6347750	Soil
952207	635467	6347649	Soil
952208	635466	6347552	Soil
952209	635464	6347450	Soil
952210	635465	6347350	Soil
952211	635466	6347253	Soil
952212	635465	6347150	Soil
952213	635464	6347050	Soil
952214	635465	6346944	Soil
952215	635467	6346853	Soil
952216	635464	6346746	Soil
952217	635467	6346641	Soil
952218	635464	6346550	Soil
952219	635466	6346451	Soil
952220	635465	6346355	Soil
952221	635464	6346255	Soil
952222	635467	6346151	Soil
952223	635466	6346050	Soil
952224	635467	6345941	Soil
952225	635465	6345842	Soil
952226	635465	6345752	Soil

Appendix G

952227	635465	6345650	Soil
952228	635462	6345521	Soil
952229	635465	6345448	Soil
952230	635464	6345350	Soil
952231	635465	6345250	Soil
952232	635468	6345150	Soil
952233	635465	6348451	Soil
952234	635465	6348548	Soil
952235	635465	6348650	Soil
952236	635466	6348748	Soil
952237	635465	6348851	Soil
952238	635466	6348943	Soil
952239	635452	6349049	Soil
952240	635454	6349154	Soil
952241	635465	6349250	Soil
952242	635465	6349349	Soil
952243	637067	6349047	Soil
952244	637053	6348950	Soil
952245	637063	6348851	Soil
952246	637065	6348749	Soil
952247	637064	6348651	Soil
952248	637065	6348551	Soil
952249	637065	6348452	Soil
952250	637059	6348347	Soil
952251	637065	6348251	Soil
952252	637064	6348150	Soil
952253	637068	6348051	Soil
952254	637065	6347953	Soil
952255	637057	6347859	Soil
952256	637063	6347752	Soil
952257	637066	6347652	Soil
952258	637049	6347548	Soil
952259	637066	6347455	Soil
952260	637067	6347350	Soil
952261	637066	6347247	Soil
952262	637064	6347145	Soil
952263	637073	6347053	Soil
952264	637070	6346943	Soil
952265	637073	6346852	Soil
952266	637070	6346716	Soil
952267	637072	6346650	Soil
952268	637072	6346549	Soil
952269	637075	6346451	Soil
952270	635465	6350750	Soil
952271	635466	6350652	Soil
952272	635466	6350552	Soil
952273	635466	6350450	Soil

Appendix G

952274	635466	6350354	Soil
952275	635464	6350251	Soil
952276	635465	6350152	Soil
952277	635464	6350053	Soil
952278	635465	6349949	Soil
952279	635465	6349848	Soil
952280	635466	6349752	Soil
952281	635466	6349651	Soil
952282	635466	6349551	Soil
952283	635462	6353949	Soil
952284	635465	6353866	Soil
952285	635465	6353753	Soil
952286	635466	6353656	Soil
952287	635464	6353562	Soil
952288	635465	6353450	Soil
952289	635469	6353253	Soil
952290	635467	6353137	Soil
952291	635476	6353064	Soil
952292	635482	6352953	Soil
952293	635488	6352826	Soil
952294	635466	6352750	Soil
952295	635485	6352652	Soil
952296	635450	6352533	Soil
952297	635464	6352440	Soil
952298	635468	6352351	Soil
952299	635465	6352251	Soil
952300	635467	6352149	Soil
952301	635467	6352056	Soil
952302	635457	6351948	Soil
952303	635474	6351854	Soil
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952305	635471	6351650	Soil
952306	635466	6351555	Soil
952307	635435	6351350	Soil
952308	635465	6351250	Soil
952309	635466	6351150	Soil
952310	637066	6349150	Soil
952311	637065	6349248	Soil
952312	637066	6349351	Soil
952313	637066	6349450	Soil
952314	637065	6349553	Soil
952315	637067	6349650	Soil
952316	637067	6349748	Soil
952317	637065	6349846	Soil
952318	637068	6349951	Soil
952319	637065	6350051	Soil
952320	637065	6350152	Soil

Appendix G

952321	637067	6350250	Soil
952322	637069	6350366	Soil
952323	637065	6350453	Soil
952324	637078	6350550	Soil
952325	637065	6350648	Soil
952326	637065	6350747	Soil
952327	637069	6350855	Soil
952328	637069	6350950	Soil
952329	637066	6351048	Soil
952330	637064	6351148	Soil
952331	637072	6351248	Soil
952332	637065	6351350	Soil
952333	637050	6351445	Soil
952334	637063	6351545	Soil
952335	637061	6351650	Soil
952336	637064	6351752	Soil
952337	637065	6351851	Soil
952338	637067	6351955	Soil
952339	637066	6352051	Soil
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952341	637067	6352249	Soil
952342	637065	6353945	Soil
952343	637065	6353851	Soil
952344	637065	6353752	Soil
952345	637064	6353648	Soil
952346	637065	6353555	Soil
952347	637065	6353447	Soil
952348	637063	6353350	Soil
952349	637066	6353250	Soil
952350	637065	6353149	Soil
952351	637060	6353057	Soil
952352	637065	6352961	Soil
952353	637061	6352850	Soil
952354	637084	6352762	Soil
952355	637075	6352653	Soil
952356	637068	6352553	Soil
952357	637071	6352443	Soil
952358	637053	6352340	Soil
952359	637867	6350945	Soil
952360	637866	6351049	Soil
952361	637873	6351149	Soil
952362	637868	6351249	Soil
952363	637868	6351349	Soil
952364	637868	6351453	Soil
952450	636068	6348993	Soil
952451	636068	6348893	Soil
952452	636071	6348790	Soil

Appendix G

952453	636068	6348692	Soil
952454	636068	6348593	Soil
952455	637864	6353984	Soil
952456	636069	6348493	Soil
952457	636070	6348392	Soil
952458	636091	6348286	Soil
952459	636084	6348193	Soil
952460	636060	6348089	Soil
952461	636061	6347997	Soil
952462	636086	6347888	Soil
952463	636085	6347789	Soil
952464	636067	6347680	Soil
952465	636067	6347600	Soil
952466	636070	6347499	Soil
952467	636061	6347396	Soil
952468	636080	6347190	Soil
952469	636066	6347094	Soil
952470	636061	6347017	Soil
952471	636266	6347260	Soil
952472	636271	6347166	Soil
952473	636272	6347061	Soil
952474	636255	6346950	Soil
952475	636265	6346856	Soil
952476	636287	6346750	Soil
952477	636275	6346660	Soil
952478	636269	6346562	Soil
952479	636280	6346455	Soil
952480	636269	6346374	Soil
952481	636261	6346270	Soil
952482	636269	6346161	Soil
952483	636269	6346050	Soil
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952485	636274	6345844	Soil
952486	636259	6345748	Soil
952487	636262	6345641	Soil
952488	636275	6345552	Soil
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952491	636266	6345252	Soil
952492	636275	6345154	Soil
952493	637076	6345164	Soil
952494	637073	6345253	Soil
952495	637072	6345359	Soil
952496	637069	6345455	Soil
952497	637072	6345552	Soil
952498	637074	6345650	Soil
952499	637066	6345739	Soil

Appendix G

960350	636670.173	6349747.313	Soil
960351	636665.742	6349846.391	Soil
960352	636669.971	6349949.241	Soil
960353	636668.576	6350047.347	Soil
960354	636667.695	6350147.768	Soil
960355	636668.118	6350245.663	Soil
960356	636666.608	6350349.499	Soil
960357	636656.453	6350447.276	Soil
960358	636673.097	6350552.865	Soil
960359	636663.691	6350645.017	Soil
960360	636667.545	6350745.987	Soil
960361	636667.186	6350846.808	Soil
960362	636657.472	6350950.193	Soil
960363	636664.912	6351045.988	Soil
960364	636663.362	6351146.573	Soil
960365	636665.066	6351249.04	Soil
960366	636665.811	6351355.435	Soil
960367	636657.391	6351449.413	Soil
960368	636662.692	6351545.894	Soil
960369	636660.908	6351650.141	Soil
960370	636662.106	6351750.948	Soil
960371	636657.195	6353949.732	Soil
960372	636658.511	6353851.594	Soil
960373	636663.249	6353752.675	Soil
960374	636664.891	6353659.012	Soil
960375	636660.937	6353553.238	Soil
960376	636661.463	6353455.271	Soil
960377	636660.97	6353357.55	Soil
960378	636668.106	6353246.309	Soil
960379	636664.334	6353152.765	Soil
960380	636664.935	6353050.28	Soil
960381	636663.423	6352953.973	Soil
960382	636656.738	6352851.059	Soil
960383	636663.33	6352748.372	Soil
960384	636664.046	6352651.672	Soil
960385	636666.145	6352548.014	Soil
960386	636664.323	6352452.061	Soil
960387	636670.903	6352345.629	Soil
960388	636662.576	6352196.783	Soil
960389	635060.59	6349147.11	Soil
960390	635067.547	6349245.517	Soil
960391	635065.571	6349349.868	Soil
960392	635070.357	6349450.903	Soil
960393	635064.278	6349546.014	Soil
960394	635857.693	6351147.139	Soil
960395	635854.969	6351045.844	Soil
960396	635872.747	6350939.186	Soil

Appendix G

962700	637073	6345847	Soil
962701	637071	6345947	Soil
962702	637072	6346049	Soil
962703	637071	6346151	Soil
962704	637074	6346250	Soil
962705	637073	6346351	Soil
962706	636266	6348550	Soil
962707	636274	6348658	Soil
962708	636266	6348742	Soil
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962710	636265	6348951	Soil
962711	636265	6349047	Soil
962712	636265	6349149	Soil
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962726	636266	6349355	Soil
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962728	636263	6353849	Soil
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962730	636262	6353658	Soil
962731	636260	6353550	Soil
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962733	636259	6353343	Soil
962734	636258	6353248	Soil
962735	636255	6353167	Soil
962736	636262	6353058	Soil
962737	636260	6352950	Soil
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962739	636257	6352760	Soil
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962741	636264	6351752	Soil
962742	636263	6351852	Soil
962743	636256	6352048	Soil
962744	636257	6352168	Soil
962745	636260	6352247	Soil
962746	636264	6352345	Soil

Appendix G

962747	636254	6352457	Soil
962748	636262	6352546	Soil
962749	636263	6352653	Soil
962750	636263	6350650	Soil
962751	636260	6350751	Soil
962752	636262	6350856	Soil
962753	636264	6350955	Soil
962754	636257	6351049	Soil
962755	636265	6351103	Soil
962756	635862	6352114	Soil
962757	635859	6351955	Soil
962758	635862	6351851	Soil
962759	635867	6351749	Soil
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962762	635864	6351452	Soil
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962764	635862	6351253	Soil
962765	637860	6353852	Soil
962766	637862	6353760	Soil
962767	637876	6353657	Soil
962768	637927	6353530	Soil
962769	637898	6353450	Soil
962770	637894	6353349	Soil
962771	637888	6353249	Soil
962772	637868	6353151	Soil
962773	637855	6353052	Soil
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962775	637860	6352860	Soil
962776	637878	6352753	Soil
962777	637874	6352652	Soil
962778	637878	6352558	Soil
962779	637865	6352460	Soil
962780	637851	6352374	Soil
962781	637871	6352240	Soil
962782	637873	6352154	Soil
962783	637874	6352049	Soil
962784	637862	6351956	Soil
962785	637853	6351848	Soil
962786	637874	6351749	Soil
962787	637869	6351647	Soil
981100	635080.342	6347930.246	Soil
981101	635068.776	6347848.651	Soil
981102	635061.498	6347750.487	Soil
981103	635060.4	6347651.635	Soil
981104	635071.56	6347554.634	Soil
981105	635070.863	6347449.11	Soil

Appendix G

981106	635074.909	6347351.764	Soil
981107	635074.274	6347255.378	Soil
981108	635064.754	6347153.687	Soil
981109	635067.694	6347047.726	Soil
981110	635068.312	6346949.933	Soil
981111	635070.429	6346850.63	Soil
981112	635076.282	6346755.237	Soil
981113	635072.9	6346654.193	Soil
981114	635071.429	6346550.092	Soil
981115	635073.353	6346454.793	Soil
981116	635066.631	6346352.414	Soil
981117	635070.888	6346252.29	Soil
981118	635079.715	6346150.979	Soil
981119	635079.474	6346048.033	Soil
981120	635075.394	6345949.752	Soil
981121	635075.947	6345852.068	Soil
981122	635076.294	6345749.587	Soil
981123	635073.905	6345653.144	Soil
981124	635069.237	6345548.827	Soil
981125	635075.533	6345450.998	Soil
981126	635074.89	6345347.371	Soil
981127	635073.844	6345252.309	Soil
981128	635075.677	6345154.221	Soil
981129	635065.947	6348266.995	Soil
981130	635081.205	6348351.942	Soil
981131	635096.86	6348450.494	Soil
981132	635072.292	6348553.181	Soil
981133	635073.387	6348644.681	Soil
981134	635080.963	6348750.208	Soil
981135	635088.367	6348846.26	Soil
981136	635072.516	6348946.448	Soil
981137	635071.039	6349051.901	Soil
981138	636636.537	6348858.492	Soil
981139	636730.513	6348712.112	Soil
981140	636674.999	6348655.118	Soil
981141	636675.954	6348555.663	Soil
981142	636677.119	6348446.3	Soil
981143	636674.145	6348350.613	Soil
981144	636685.577	6348253.847	Soil
981145	636681.299	6348151.99	Soil
981146	636676.8	6348047.675	Soil
981147	636675.092	6347952.031	Soil
981148	636670.225	6347851.491	Soil
981149	636669.396	6347745.738	Soil
981150	636675.345	6347652.243	Soil
981151	636668.244	6347548.064	Soil
981152	636672.713	6347451.846	Soil

Appendix G

981153	636668.588	6347345.315	Soil
981154	636672.783	6347251.873	Soil
981155	636671.814	6347153.914	Soil
981156	636671.317	6347050.846	Soil
981157	636676.199	6346951.299	Soil
981158	636676.956	6346852.284	Soil
981159	636674.731	6346753.949	Soil
981160	636676.476	6346650.621	Soil
981161	636674.206	6346553.622	Soil
981162	636679.251	6346450.962	Soil
981163	636673.001	6346351.936	Soil
981164	636675.161	6346248.845	Soil
981165	636677.703	6346143.316	Soil
981166	636677.573	6346050.956	Soil
981167	636678.165	6345949.595	Soil
981168	636674.394	6345850.43	Soil
981169	636675.768	6345750.989	Soil
981170	636675.464	6345654.724	Soil
981171	636678.045	6345549.865	Soil
981172	636684.434	6345444.909	Soil
981173	636679.94	6345349.285	Soil
981174	636678.953	6345246.312	Soil
981175	636684.972	6345157.944	Soil
981176	635061.243	6350857.125	Soil
981177	635068.067	6350750.623	Soil
981178	635072.453	6350655.85	Soil
981179	635061.593	6350551.329	Soil
981180	635068.893	6350450.524	Soil
981181	635046.744	6350340.618	Soil
981182	635061.918	6350248.094	Soil
981183	635063.305	6350149.1	Soil
981184	635062.715	6350047.813	Soil
981185	635067.377	6349953.829	Soil
981186	635072.187	6349853.499	Soil
981187	635074.152	6349747.952	Soil
981188	635063.869	6349653.253	Soil
981189	635055.951	6353948.129	Soil
981190	635052.496	6353849.867	Soil
981191	635055.997	6353747.266	Soil
981192	635054.602	6353654.196	Soil
981193	635037.328	6353556.258	Soil
981194	635045.741	6353454.598	Soil
981195	635032.073	6353349.649	Soil
981196	635032.165	6353262.644	Soil
981197	635015.426	6353139.212	Soil
981198	634986.7	6353050.144	Soil
981199	634992.02	6352947.157	Soil

Appendix G

981201	635019.78	6352849.477	Soil
981202	635059.3	6352751.85	Soil
981203	635060.46	6352650.732	Soil
981204	635060.717	6352551.366	Soil
981205	635064.88	6352454.246	Soil
981206	635067.031	6352350.487	Soil
981207	635064.769	6352256.163	Soil
981208	635064.165	6352149.973	Soil
981209	635055.782	6352041.856	Soil
981210	635060.213	6351949.424	Soil
981211	635062.245	6351849.226	Soil
981212	635062.855	6351753.771	Soil
981213	635067.577	6351650.653	Soil
981214	635065.211	6351526.469	Soil
981215	635063.084	6351453.652	Soil
981216	635061.887	6351352.567	Soil
981217	635063.638	6351249.909	Soil
981218	635088.549	6351151.132	Soil
981219	635115.842	6351069.814	Soil
981220	635147.885	6350954.227	Soil
981221	637477.281	6353956.989	Soil
981222	637467.009	6353851.586	Soil
981223	637462.696	6353751.842	Soil
981224	637457.575	6353643.826	Soil
981225	637464.06	6353552.911	Soil
981226	637467.908	6353452.549	Soil
981227	637446.875	6353351.464	Soil
981228	637462.086	6353257.499	Soil
981229	637468.266	6353152.313	Soil
981230	637467.392	6353052.461	Soil
981231	637464.49	6352919.564	Soil
981232	637463.545	6352856.029	Soil
981233	637459.98	6352751.854	Soil
981234	637464.346	6352650.395	Soil
981235	637465.886	6352446.123	Soil
981236	637471.06	6352351.153	Soil
981237	637468.806	6352249.25	Soil
981238	637464.831	6352150.074	Soil
981239	637467.691	6352052.13	Soil
981240	637465.837	6351954.474	Soil
981241	637467.523	6351848.358	Soil
981242	637465.721	6351750.926	Soil
981243	637455.213	6351657.659	Soil
981244	637469.359	6351546.947	Soil
981245	637469.636	6351450.477	Soil
981246	637473.037	6351339.962	Soil
981247	637474.18	6351244.634	Soil

Appendix G

981248	637482.067	6351131.707	Soil
981249	637468.519	6351046.248	Soil

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-17
Invoice No.: A17-07490
Invoice Date: 09-Aug-17
Your Reference: JOY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

192 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)

Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-07490

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Notes:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
 9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
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Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
981100	< 3.0	8.0	40	790	< 10	< 20	2.0	< 3	< 10	50	0.003	4.7	20	< 10	2.0	20	0.7	0.167	< 0.001	1.6	0.001	0.14	70
981101	< 3.0	8.3	< 30	860	< 10	< 20	1.9	< 3	< 10	70	0.003	4.2	10	< 10	1.9	20	0.9	0.109	< 0.001	2.0	0.002	0.12	80
981102	< 3.0	8.1	< 30	910	< 10	< 20	1.0	< 3	< 10	140	0.003	4.4	20	< 10	2.2	20	0.5	0.151	< 0.001	1.8	< 0.001	0.14	160
981103	< 3.0	8.8	< 30	960	< 10	< 20	0.4	< 3	< 10	50	< 0.001	4.0	10	< 10	3.0	10	0.6	0.091	< 0.001	1.8	< 0.001	0.16	< 30
981104	< 3.0	7.8	< 30	1270	< 10	< 20	0.5	< 3	10	50	0.001	4.0	10	< 10	2.9	20	0.6	0.274	< 0.001	1.4	< 0.001	0.19	210
981105	< 3.0	8.2	< 30	930	< 10	< 20	1.2	< 3	< 10	30	0.004	3.1	20	10	2.6	20	0.8	0.128	< 0.001	1.0	< 0.001	0.17	< 30
981106	< 3.0	7.1	< 30	980	< 10	< 20	0.6	4	< 10	40	0.001	3.8	10	< 10	2.3	20	0.6	0.176	< 0.001	1.2	< 0.001	0.21	40
981107	< 3.0	8.9	30	1170	< 10	< 20	1.3	< 3	< 10	30	< 0.001	3.3	< 10	< 10	3.1	10	0.8	0.077	< 0.001	2.2	0.001	0.10	< 30
981108	< 3.0	7.5	< 30	770	< 10	< 20	0.7	< 3	< 10	60	0.002	3.8	20	< 10	1.9	30	0.5	0.284	< 0.001	1.4	< 0.001	0.20	140
981109	< 3.0	9.8	< 30	680	< 10	< 20	2.3	< 3	10	30	0.005	4.7	20	< 10	1.9	20	1.1	0.207	< 0.001	1.6	< 0.001	0.14	70
981110	< 3.0	7.6	< 30	1200	< 10	< 20	0.8	< 3	< 10	30	0.002	3.5	10	< 10	2.5	20	0.7	0.115	< 0.001	1.7	0.001	0.12	40
981111	< 3.0	7.2	< 30	1020	< 10	< 20	1.3	< 3	< 10	50	0.001	3.9	< 10	< 10	2.1	20	0.9	0.112	< 0.001	2.1	0.001	0.08	< 30
981112	< 3.0	8.1	< 30	950	< 10	< 20	1.9	< 3	< 10	70	0.001	4.0	20	< 10	1.8	20	0.8	0.210	< 0.001	2.1	0.001	0.11	< 30
981113	< 3.0	8.2	< 30	930	< 10	< 20	1.5	< 3	< 10	60	0.001	4.1	20	< 10	2.0	30	0.7	0.106	< 0.001	2.0	< 0.001	0.12	50
981114	< 3.0	7.1	< 30	1100	< 10	< 20	0.9	< 3	< 10	50	0.002	2.3	10	< 10	2.3	10	0.2	0.037	< 0.001	1.8	< 0.001	0.07	< 30
981115	< 3.0	7.3	< 30	1190	< 10	< 20	1.7	< 3	< 10	40	0.006	3.9	< 10	< 10	1.6	20	0.4	0.091	< 0.001	1.1	0.001	0.15	90
981116	< 3.0	6.8	< 30	1030	< 10	< 20	1.4	< 3	< 10	30	0.002	3.4	10	< 10	2.0	30	0.5	0.076	< 0.001	1.3	< 0.001	0.08	230
981117	< 3.0	7.8	< 30	1000	< 10	< 20	1.4	< 3	< 10	50	0.002	3.5	< 10	< 10	2.1	20	0.6	0.103	< 0.001	1.8	< 0.001	0.05	110
981118	< 3.0	6.1	< 30	1170	< 10	< 20	1.6	< 3	< 10	60	0.003	3.4	10	< 10	1.8	10	0.4	0.148	< 0.001	1.8	< 0.001	0.03	120
981119	< 3.0	7.1	< 30	750	< 10	< 20	0.8	< 3	< 10	110	0.002	3.9	< 10	< 10	1.5	20	0.5	0.044	< 0.001	1.9	0.001	0.05	< 30
981120	< 3.0	8.0	< 30	720	< 10	< 20	0.8	< 3	< 10	70	0.002	3.8	10	< 10	1.4	20	0.5	0.057	< 0.001	1.5	0.002	0.08	40
981121	< 3.0	7.8	30	1030	< 10	< 20	1.5	< 3	< 10	30	0.002	3.2	20	< 10	2.2	< 10	0.4	0.088	< 0.001	2.0	< 0.001	0.03	< 30
981122	< 3.0	8.0	< 30	850	< 10	< 20	1.2	8	< 10	50	0.003	3.5	< 10	< 10	1.8	30	0.5	0.060	< 0.001	2.4	< 0.001	0.03	< 30
981123	< 3.0	7.9	< 30	780	< 10	< 20	1.0	4	< 10	70	0.002	4.7	10	< 10	1.9	20	0.4	0.055	< 0.001	2.2	0.001	0.06	< 30
981124	3.4	8.6	< 30	700	< 10	< 20	0.9	4	< 10	50	0.080	3.4	20	< 10	1.9	20	0.4	0.050	0.001	1.6	< 0.001	0.12	260
981125	< 3.0	7.9	< 30	750	< 10	< 20	0.9	< 3	< 10	60	0.001	5.4	10	< 10	2.0	20	0.5	0.087	< 0.001	1.9	< 0.001	0.17	40
981126	< 3.0	8.6	< 30	740	< 10	< 20	0.8	4	< 10	50	0.002	5.3	20	< 10	2.0	40	0.5	0.089	< 0.001	2.0	< 0.001	0.12	< 30
981127	< 3.0	5.4	< 30	870	< 10	< 20	1.0	3	< 10	60	< 0.001	2.9	< 10	< 10	1.8	20	0.4	0.048	< 0.001	1.9	< 0.001	0.05	< 30
981128	< 3.0	7.3	< 30	810	< 10	< 20	0.9	< 3	< 10	60	0.001	4.8	20	< 10	1.8	20	0.5	0.053	< 0.001	1.8	< 0.001	0.10	< 30
981129	< 3.0	10.3	< 30	920	< 10	< 20	2.9	12	< 10	< 10	0.021	3.9	20	< 10	3.1	10	0.9	0.265	0.002	1.5	< 0.001	0.13	250
981130	< 3.0	10.2	< 30	810	< 10	< 20	3.1	< 3	< 10	< 10	0.004	3.5	20	< 10	3.0	< 10	0.6	0.118	< 0.001	1.6	< 0.001	0.14	< 30
981131	< 3.0	10.4	< 30	1190	< 10	< 20	0.4	< 3	< 10	< 10	0.005	4.5	20	< 10	3.9	10	0.8	0.160	< 0.001	0.7	< 0.001	0.11	40
981132	< 3.0	0.9	< 30	110	< 10	< 20	< 0.1	< 3	< 10	< 10	0.001	0.9	< 10	< 10	0.3	< 10	< 0.1	0.011	< 0.001	0.1	< 0.001	0.03	40
981133	< 3.0	0.9	< 30	110	< 10	< 20	< 0.1	< 3	< 10	< 10	0.003	0.8	< 10	< 10	0.2	< 10	< 0.1	0.015	< 0.001	< 0.1	< 0.001	0.03	< 30
981134	< 3.0	7.9	< 30	1000	< 10	< 20	0.8	< 3	< 10	40	0.006	5.0	10	< 10	2.0	10	0.5	0.113	< 0.001	1.2	< 0.001	0.18	60
981135	< 3.0	8.7	< 30	1100	< 10	< 20	0.8	< 3	< 10	20	0.008	6.9	20	< 10	2.6	10	0.6	0.130	< 0.001	1.1	< 0.001	0.19	70
981136	< 3.0	9.5	< 30	1040	< 10	< 20	0.6	< 3	< 10	20	0.005	5.4	< 10	< 10	2.1	20	0.5	0.069	< 0.001	1.2	< 0.001	0.13	60
981137	< 3.0	8.7	< 30	1040	< 10	< 20	1.0	< 3	< 10	40	0.005	5.4	< 10	< 10	2.0	10	0.6	0.084	< 0.001	1.2	< 0.001	0.20	40
981138	< 3.0	8.3	< 30	1180	< 10	< 20	1.7	4	10	20	0.010	4.9	10	< 10	2.7	10	0.7	0.228	< 0.001	0.9	< 0.001	0.18	290
981139	< 3.0	10.6	< 30	970	< 10	< 20	3.8	11	30	20	0.047	7.0	10	< 10	3.4	10	0.9	0.438	< 0.001	0.8	< 0.001	0.11	100
981140	< 3.0	9.7	< 30	660	< 10	< 20	3.4	< 3	30	20	0.011	7.0	< 10	< 10	2.2	20	0.7	0.555	< 0.001	0.6	< 0.001	0.15	40
981141	6.0	8.4	< 30	690	< 10	< 20	1.8	3	< 10	70	0.005	5.6	10	< 10	2.3	10	0.9	0.228	0.002	1.2	0.001	0.23	50

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
981142	< 3.0	9.1	< 30	960	< 10	< 20	2.9	4	10	50	0.035	6.5	10	< 10	2.6	20	1.0	0.361	< 0.001	0.7	< 0.001	0.18	50
981143	< 3.0	5.3	< 30	760	< 10	< 20	1.3	5	20	20	0.007	4.6	< 10	< 10	1.4	< 10	0.5	0.556	< 0.001	0.5	< 0.001	0.50	< 30
981144	8.6	9.1	< 30	900	< 10	< 20	0.8	3	< 10	20	0.005	5.0	20	< 10	2.9	10	0.9	0.262	0.001	1.2	< 0.001	0.19	< 30
981145	< 3.0	7.6	< 30	720	< 10	< 20	1.4	< 3	10	70	0.005	4.9	< 10	< 10	1.6	20	1.1	0.206	< 0.001	1.3	0.003	0.30	40
981146	3.0	10.5	< 30	1160	< 10	< 20	0.3	< 3	< 10	< 10	0.002	5.2	10	10	3.7	< 10	0.3	0.047	0.001	2.4	< 0.001	0.09	< 30
981147	< 3.0	9.7	< 30	810	< 10	< 20	2.7	5	10	20	0.003	4.4	20	< 10	2.2	20	0.7	0.510	< 0.001	1.8	< 0.001	0.17	60
981148	< 3.0	8.4	< 30	780	< 10	< 20	2.8	< 3	< 10	60	0.002	4.8	10	< 10	1.8	20	0.5	0.220	< 0.001	1.7	< 0.001	0.13	100
981149	< 3.0	8.0	< 30	660	< 10	< 20	0.8	< 3	< 10	30	0.003	4.7	20	< 10	2.0	20	0.4	0.085	< 0.001	1.7	< 0.001	0.18	60
981150	< 3.0	7.0	< 30	820	< 10	< 20	0.7	< 3	< 10	60	0.003	5.8	< 10	< 10	1.8	20	0.5	0.092	< 0.001	1.4	< 0.001	0.23	210
981151	< 3.0	8.7	< 30	880	< 10	< 20	1.1	< 3	< 10	20	0.004	4.9	< 10	< 10	2.0	10	0.6	0.094	< 0.001	1.4	< 0.001	0.19	< 30
981152	< 3.0	7.9	< 30	1030	< 10	< 20	1.2	< 3	< 10	30	0.002	4.2	10	< 10	2.3	< 10	0.4	0.067	< 0.001	1.3	< 0.001	0.10	60
981153	4.7	7.6	< 30	680	< 10	< 20	1.0	< 3	< 10	30	0.005	6.1	10	< 10	1.4	< 10	0.4	0.079	< 0.001	0.6	< 0.001	0.30	40
981154	11.1	8.2	30	1020	< 10	< 20	2.0	4	< 10	40	0.004	4.8	10	< 10	2.2	10	0.5	0.102	0.001	1.6	< 0.001	0.08	90
981155	3.3	8.1	< 30	890	< 10	< 20	1.6	4	< 10	60	0.004	4.9	20	< 10	2.2	20	0.5	0.089	< 0.001	1.4	< 0.001	0.13	80
981156	< 3.0	7.4	< 30	1140	< 10	< 20	1.9	4	< 10	30	0.003	2.6	< 10	< 10	2.0	< 10	0.4	0.130	< 0.001	1.3	< 0.001	0.14	30
981157	< 3.0	8.1	< 30	1150	< 10	< 20	2.9	4	< 10	20	0.003	3.6	< 10	< 10	2.2	< 10	0.3	0.133	< 0.001	1.9	< 0.001	0.08	60
981158	< 3.0	8.6	< 30	790	< 10	< 20	1.8	4	< 10	60	0.010	7.1	20	< 10	1.9	30	0.7	0.127	0.002	1.6	< 0.001	0.14	90
981159	< 3.0	8.1	< 30	1030	< 10	< 20	1.9	10	< 10	50	0.003	3.7	10	< 10	2.3	10	0.4	0.107	< 0.001	1.8	< 0.001	0.10	40
981160	< 3.0	8.9	< 30	880	< 10	< 20	3.2	5	10	30	0.033	4.4	10	< 10	1.7	20	0.7	0.177	< 0.001	1.8	0.001	0.07	230
981161	< 3.0	9.3	< 30	780	< 10	< 20	1.2	< 3	< 10	40	0.005	4.8	20	< 10	2.8	30	0.5	0.095	< 0.001	1.9	< 0.001	0.13	< 30
981162	4.6	8.5	< 30	1040	< 10	< 20	0.9	< 3	< 10	40	0.007	3.3	20	< 10	2.4	20	0.4	0.076	< 0.001	2.0	< 0.001	0.10	140
981163	< 3.0	8.5	< 30	1140	< 10	< 20	1.6	4	< 10	50	0.006	4.4	20	< 10	2.5	20	0.7	0.134	< 0.001	1.8	0.001	0.06	140
981164	< 3.0	10.4	< 30	1160	< 10	< 20	1.1	56	30	50	0.457	4.7	20	< 10	1.6	40	0.9	0.417	< 0.001	0.8	0.003	0.14	230
981165	< 3.0	8.5	< 30	910	< 10	< 20	1.4	7	< 10	40	0.009	4.7	10	< 10	1.9	20	0.6	0.104	< 0.001	1.7	< 0.001	0.08	60
981166	< 3.0	7.9	< 30	730	< 10	< 20	1.4	11	10	70	0.043	3.7	20	< 10	1.8	30	0.8	0.141	< 0.001	1.8	0.002	0.05	60
981167	< 3.0	9.0	< 30	1030	< 10	< 20	1.9	< 3	< 10	30	0.002	4.4	20	< 10	2.0	20	0.8	0.134	< 0.001	2.2	< 0.001	0.02	< 30
981168	< 3.0	8.5	30	810	< 10	< 20	1.1	7	< 10	50	0.004	5.6	20	< 10	1.8	30	0.6	0.085	< 0.001	2.0	< 0.001	0.06	< 30
981169	< 3.0	9.3	< 30	1300	< 10	< 20	0.2	< 3	< 10	< 10	< 0.001	2.6	20	< 10	3.8	20	0.5	0.049	< 0.001	0.9	< 0.001	0.02	< 30
981170	< 3.0	8.4	< 30	960	< 10	< 20	1.6	3	< 10	60	0.001	5.3	20	< 10	2.0	20	0.6	0.109	< 0.001	1.9	< 0.001	0.11	30
981171	< 3.0	10.4	< 30	890	< 10	< 20	1.1	5	10	70	0.037	4.6	20	< 10	2.2	20	0.7	0.107	< 0.001	1.8	0.001	0.12	240
981172	< 3.0	8.3	< 30	1010	< 10	< 20	1.6	< 3	< 10	70	0.002	5.0	10	< 10	1.9	20	0.6	0.099	< 0.001	1.9	< 0.001	0.07	< 30
981173	< 3.0	5.7	< 30	880	< 10	< 20	1.3	< 3	< 10	60	0.001	2.9	< 10	< 10	1.9	10	0.3	0.056	< 0.001	1.9	< 0.001	0.03	< 30
981174	< 3.0	8.7	< 30	1030	< 10	< 20	1.6	< 3	< 10	50	< 0.001	4.4	20	< 10	2.5	20	0.4	0.084	< 0.001	1.7	< 0.001	0.03	60
981175	< 3.0	9.8	< 30	870	< 10	< 20	2.7	10	30	30	0.068	4.2	< 10	< 10	1.5	20	0.4	0.202	0.002	1.1	< 0.001	0.07	80
981176	< 3.0	9.1	< 30	960	< 10	< 20	0.9	3	10	40	0.007	6.3	20	< 10	4.2	20	1.0	0.224	< 0.001	1.1	< 0.001	0.14	760
981177	< 3.0	8.0	< 30	760	< 10	< 20	2.3	< 3	< 10	30	< 0.001	5.3	20	< 10	2.0	10	0.7	0.311	< 0.001	1.8	< 0.001	0.30	40
981178	< 3.0	9.0	< 30	1040	< 10	< 20	1.9	7	10	50	0.005	5.3	20	< 10	2.0	20	0.8	0.690	< 0.001	2.1	< 0.001	0.17	50
981179	< 3.0	8.3	< 30	850	< 10	< 20	1.5	< 3	< 10	40	0.003	5.0	10	< 10	2.1	20	0.8	0.122	< 0.001	2.1	0.001	0.17	< 30
981180	< 3.0	9.7	< 30	1080	< 10	< 20	0.4	< 3	< 10	20	0.002	3.7	20	< 10	2.7	< 10	0.4	0.080	< 0.001	1.2	< 0.001	0.14	90
981181	< 3.0	7.8	< 30	790	< 10	< 20	0.5	< 3	< 10	40	0.004	3.3	20	< 10	2.0	< 10	0.3	0.057	< 0.001	1.2	< 0.001	0.12	60
981182	< 3.0	9.5	< 30	1010	< 10	< 20	0.6	< 3	< 10	30	0.003	3.8	10	< 10	2.5	10	0.5	0.103	< 0.001	1.5	< 0.001	0.13	110
981183	< 3.0	9.4	< 30	950	< 10	< 20	0.8	< 3	< 10	20	0.007	4.5	10	< 10	2.1	10	0.4	0.085	< 0.001	1.3	< 0.001	0.12	90

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
981184	< 3.0	10.4	< 30	1190	< 10	< 20	1.1	< 3	< 10	30	0.010	5.5	10	< 10	2.6	10	0.8	0.129	< 0.001	1.5	< 0.001	0.14	100
981185	< 3.0	8.0	< 30	860	< 10	< 20	0.6	< 3	< 10	40	0.002	4.2	10	< 10	1.9	10	0.5	0.059	< 0.001	1.8	< 0.001	0.10	60
981186	< 3.0	8.7	< 30	1000	< 10	< 20	0.5	< 3	< 10	40	0.002	3.6	10	< 10	2.5	10	0.5	0.058	< 0.001	1.7	< 0.001	0.13	130
981187	< 3.0	8.9	< 30	960	< 10	< 20	0.5	< 3	< 10	30	0.002	3.2	20	< 10	2.7	10	0.5	0.055	< 0.001	1.9	< 0.001	0.10	120
981188	< 3.0	0.7	< 30	< 70	< 10	< 20	0.3	< 3	< 10	< 10	< 0.001	0.3	< 10	< 10	0.1	< 10	0.1	0.008	< 0.001	0.2	< 0.001	< 0.01	< 30
981189	< 3.0	10.8	< 30	1230	< 10	< 20	0.4	< 3	< 10	10	0.004	7.3	20	< 10	4.8	< 10	1.0	0.120	< 0.001	0.4	< 0.001	0.15	140
981190	< 3.0	10.2	< 30	1260	< 10	< 20	1.2	< 3	60	< 10	0.069	10.4	10	< 10	3.2	20	1.3	0.616	< 0.001	1.0	< 0.001	0.25	380
981191	< 3.0	10.9	< 30	1220	< 10	< 20	2.0	9	60	40	0.055	7.2	30	< 10	3.8	20	1.3	0.653	< 0.001	1.2	< 0.001	0.15	240
981192	< 3.0	9.4	< 30	1390	< 10	< 20	0.5	3	20	30	0.011	6.4	10	< 10	3.5	10	1.1	0.207	< 0.001	1.9	< 0.001	0.15	120
981193	< 3.0	11.3	< 30	670	< 10	< 20	4.6	4	20	10	0.009	3.4	10	< 10	2.0	20	1.1	0.229	< 0.001	1.1	< 0.001	0.11	< 30
981194	< 3.0	7.1	< 30	820	< 10	< 20	1.6	< 3	< 10	90	0.006	4.5	< 10	< 10	1.9	20	1.2	0.143	< 0.001	1.5	0.003	0.11	60
981195	< 3.0	8.1	< 30	910	< 10	< 20	1.1	< 3	< 10	90	0.003	3.9	< 10	< 10	2.0	20	0.9	0.090	< 0.001	1.8	0.003	0.09	< 30
981196	< 3.0	8.5	< 30	890	< 10	< 20	1.0	3	< 10	110	0.027	3.9	< 10	< 10	2.3	20	1.0	0.161	< 0.001	1.4	0.002	0.10	50
981197	< 3.0	10.7	< 30	1170	< 10	< 20	0.5	< 3	< 10	20	0.004	3.9	30	< 10	4.6	20	1.3	0.268	< 0.001	0.7	< 0.001	0.09	60
981198	< 3.0	10.1	< 30	1780	< 10	< 20	1.6	< 3	10	30	0.009	4.8	20	< 10	3.4	20	1.4	0.258	< 0.001	1.3	< 0.001	0.14	820
981199	< 3.0	10.4	< 30	1100	< 10	< 20	0.3	12	60	20	0.014	8.0	20	< 10	4.2	10	0.7	0.909	0.002	0.6	< 0.001	0.17	180
745918	< 3.0	7.5	< 30	470	< 10	< 20	2.9	< 3	< 10	60	0.002	3.4	10	< 10	1.1	10	1.3	0.072	< 0.001	2.5	0.002	0.05	< 30
745919	< 3.0	9.2	< 30	870	< 10	< 20	4.3	< 3	20	70	0.015	6.2	20	< 10	1.9	30	2.0	0.123	< 0.001	2.2	0.003	0.13	< 30
981201	< 3.0	9.7	< 30	1070	< 10	< 20	1.1	6	20	< 10	0.006	7.7	10	< 10	3.0	20	1.5	0.570	< 0.001	1.9	< 0.001	0.13	120
981202	< 3.0	11.4	< 30	820	< 10	< 20	0.6	3	50	< 10	0.008	8.8	20	< 10	4.9	30	2.4	0.514	< 0.001	0.5	< 0.001	0.17	60
981203	< 3.0	10.4	< 30	860	< 10	< 20	< 0.1	< 3	< 10	< 10	0.004	6.7	10	< 10	6.3	< 10	0.9	0.055	< 0.001	< 0.1	< 0.001	0.10	170
981204	< 3.0	8.1	< 30	870	< 10	< 20	1.4	< 3	< 10	40	0.003	5.1	10	< 10	3.7	20	0.7	0.231	< 0.001	0.7	< 0.001	0.15	250
981205	< 3.0	6.3	< 30	1340	< 10	< 20	0.9	< 3	< 10	50	0.002	3.2	< 10	< 10	4.1	< 10	0.2	0.247	< 0.001	0.5	< 0.001	0.20	160
981206	< 3.0	7.1	< 30	1220	< 10	< 20	1.1	< 3	< 10	40	0.003	5.2	10	< 10	4.1	10	0.4	0.456	< 0.001	0.6	< 0.001	0.26	170
981207	< 3.0	7.4	< 30	1420	< 10	< 20	1.0	< 3	< 10	50	0.004	5.4	< 10	< 10	5.0	10	0.5	0.138	< 0.001	0.7	< 0.001	0.14	160
981208	< 3.0	6.3	< 30	1310	< 10	< 20	0.7	3	< 10	40	0.002	4.2	10	< 10	3.8	< 10	0.3	0.348	< 0.001	0.7	< 0.001	0.27	90
981209	< 3.0	8.3	< 30	1110	< 10	< 20	1.4	< 3	< 10	40	0.005	5.5	20	< 10	3.0	10	0.7	0.109	< 0.001	1.3	< 0.001	0.15	70
981210	< 3.0	9.6	< 30	1180	< 10	< 20	1.2	8	< 10	20	0.006	4.4	10	< 10	3.9	10	0.9	0.152	< 0.001	1.1	< 0.001	0.17	130
981211	< 3.0	8.1	< 30	840	< 10	< 20	1.5	< 3	< 10	30	0.002	4.1	20	< 10	2.3	20	0.5	0.093	< 0.001	1.5	< 0.001	0.15	70
981212	< 3.0	8.2	< 30	1080	< 10	< 20	1.8	< 3	< 10	20	0.002	4.4	20	< 10	2.7	< 10	0.5	0.084	< 0.001	1.4	< 0.001	0.14	100
981213	< 3.0	9.5	< 30	800	< 10	< 20	1.5	< 3	< 10	20	0.003	5.2	10	< 10	2.1	20	0.8	0.120	< 0.001	1.3	< 0.001	0.14	100
981214	< 3.0	8.5	< 30	990	< 10	< 20	1.7	< 3	< 10	20	0.004	6.7	10	< 10	2.4	10	0.7	0.186	< 0.001	1.8	< 0.001	0.16	130
981215	< 3.0	8.3	< 30	800	< 10	< 20	1.1	< 3	< 10	40	0.003	5.1	20	< 10	2.5	10	0.6	0.122	< 0.001	2.0	0.001	0.14	90
981216	< 3.0	9.5	40	830	< 10	< 20	2.3	< 3	20	10	0.004	6.1	30	< 10	2.5	20	1.1	0.296	< 0.001	2.8	< 0.001	0.17	140
981217	< 3.0	9.1	< 30	1060	< 10	< 20	1.5	< 3	< 10	20	0.003	5.8	< 10	< 10	3.3	20	1.0	0.202	< 0.001	1.4	< 0.001	0.16	250
981218	< 3.0	9.7	< 30	740	< 10	< 20	2.5	10	20	20	0.010	7.2	20	< 10	2.1	20	1.2	0.412	< 0.001	2.1	< 0.001	0.20	310
981219	< 3.0	9.3	< 30	1220	< 10	< 20	1.2	< 3	< 10	30	0.004	5.7	20	< 10	4.4	10	0.9	0.333	0.001	1.1	< 0.001	0.17	200
981220	4.6	9.7	< 30	1040	< 10	< 20	1.5	5	20	10	0.020	7.6	20	< 10	4.4	20	1.3	0.475	< 0.001	0.9	0.004	0.22	630
981221	< 3.0	10.4	< 30	970	< 10	< 20	0.4	< 3	< 10	30	0.006	3.9	20	< 10	4.1	< 10	0.8	0.315	< 0.001	1.3	< 0.001	0.10	100
981222	< 3.0	10.6	< 30	1080	< 10	< 20	0.9	< 3	< 10	10	0.002	4.4	20	< 10	3.6	10	0.8	0.134	< 0.001	1.3	< 0.001	0.18	< 30
981223	< 3.0	10.5	< 30	1160	< 10	< 20	0.8	< 3	10	10	0.005	5.7	20	< 10	3.3	20	1.8	0.285	< 0.001	1.6	< 0.001	0.19	30
981224	< 3.0	10.0	< 30	1020	< 10	< 20	0.8	4	< 10	30	0.002	5.5	< 10	< 10	2.7	20	1.2	0.155	< 0.001	1.6	< 0.001	0.13	140

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
981225	< 3.0	9.5	< 30	1070	< 10	< 20	0.6	< 3	< 10	20	0.002	4.4	20	< 10	3.2	20	0.9	0.219	< 0.001	1.3	< 0.001	0.27	< 30
981226	< 3.0	8.4	< 30	800	< 10	< 20	0.5	< 3	< 10	30	0.002	5.1	10	< 10	2.6	10	0.7	0.237	< 0.001	1.5	< 0.001	0.25	< 30
981227	< 3.0	8.1	< 30	760	< 10	< 20	0.7	< 3	10	80	0.006	5.1	< 10	< 10	2.1	20	1.0	0.211	< 0.001	1.4	0.001	0.27	< 30
981228	3.5	7.2	< 30	830	< 10	< 20	1.1	6	30	170	0.004	5.1	< 10	< 10	2.1	10	0.8	0.928	< 0.001	1.2	0.002	0.43	50
981229	< 3.0	7.9	< 30	510	< 10	< 20	0.9	< 3	10	190	0.007	6.8	10	< 10	1.6	20	1.6	0.135	< 0.001	1.4	0.003	0.16	< 30
981230	< 3.0	7.8	< 30	570	< 10	< 20	1.2	< 3	10	160	0.003	5.6	20	< 10	1.7	10	1.1	0.146	< 0.001	1.7	0.002	0.16	< 30
981231	< 3.0	7.0	< 30	650	< 10	< 20	1.0	< 3	< 10	50	0.003	1.9	10	< 10	1.8	10	0.5	0.040	< 0.001	1.7	< 0.001	0.07	< 30
981232	< 3.0	8.0	< 30	770	< 10	< 20	1.1	< 3	10	70	0.004	4.9	< 10	< 10	1.8	20	0.9	0.108	< 0.001	1.7	0.001	0.07	30
981233	< 3.0	8.2	< 30	790	< 10	< 20	1.9	< 3	< 10	90	0.004	3.2	< 10	< 10	1.7	20	1.2	0.109	< 0.001	2.0	0.002	0.07	30
981234	< 3.0	9.4	< 30	580	< 10	< 20	0.6	< 3	< 10	80	0.012	5.8	20	< 10	2.0	30	0.9	0.226	< 0.001	0.9	0.002	0.22	130
981235	< 3.0	9.8	< 30	960	< 10	< 20	1.4	< 3	< 10	40	0.003	5.1	20	< 10	2.6	10	0.8	0.172	< 0.001	1.8	0.001	0.12	70
981236	< 3.0	10.1	< 30	620	< 10	< 20	1.5	< 3	10	100	0.007	5.7	10	< 10	2.4	10	1.0	0.314	< 0.001	1.3	0.002	0.14	100
981237	< 3.0	7.4	< 30	190	< 10	< 20	2.5	< 3	30	450	0.007	8.1	20	< 10	1.2	30	2.9	0.319	0.001	1.2	0.008	0.20	110
981238	< 3.0	8.3	< 30	790	< 10	< 20	0.9	3	< 10	40	0.004	3.7	10	< 10	2.5	10	0.6	0.159	< 0.001	1.7	< 0.001	0.11	30
981239	< 3.0	8.0	< 30	680	< 10	< 20	1.1	< 3	< 10	70	0.002	4.5	20	< 10	2.0	10	0.7	0.102	< 0.001	1.7	< 0.001	0.09	40
981240	< 3.0	9.0	< 30	710	< 10	< 20	1.0	< 3	< 10	50	0.001	3.8	20	< 10	2.3	< 10	0.4	0.080	< 0.001	1.8	< 0.001	0.11	< 30
981241	< 3.0	9.3	< 30	720	< 10	< 20	1.1	< 3	< 10	80	0.002	4.2	30	< 10	2.0	< 10	0.6	0.068	< 0.001	1.7	< 0.001	0.06	40
981242	< 3.0	8.8	< 30	760	< 10	< 20	1.0	< 3	< 10	30	0.002	3.5	20	< 10	2.2	< 10	0.5	0.063	< 0.001	2.0	< 0.001	0.05	< 30
981243	< 3.0	8.9	< 30	1090	< 10	< 20	1.4	< 3	< 10	40	0.020	4.2	20	< 10	3.0	30	0.9	0.155	< 0.001	1.8	0.001	0.10	80
981244	< 3.0	7.4	< 30	1080	< 10	< 20	2.0	< 3	< 10	50	0.013	3.9	< 10	< 10	2.0	30	0.6	0.331	0.002	1.6	< 0.001	0.23	60
981245	< 3.0	7.9	< 30	900	< 10	< 20	0.7	< 3	< 10	30	0.001	3.4	20	< 10	2.1	< 10	0.4	0.093	< 0.001	1.9	< 0.001	0.06	50
981246	< 3.0	8.8	< 30	1260	< 10	< 20	1.4	7	< 10	20	0.008	4.0	10	< 10	2.8	30	0.8	0.246	< 0.001	1.6	< 0.001	0.11	170
981247	< 3.0	10.5	< 30	1450	< 10	< 20	1.4	13	< 10	20	0.020	3.7	20	< 10	3.6	40	0.9	0.279	< 0.001	0.9	< 0.001	0.14	80
981248	< 3.0	7.5	< 30	1010	< 10	< 20	0.6	< 3	< 10	20	< 0.001	3.3	< 10	< 10	2.1	< 10	0.3	0.081	< 0.001	1.6	< 0.001	0.07	< 30
981249	< 3.0	8.0	< 30	1000	< 10	< 20	0.8	< 3	< 10	10	0.003	4.3	< 10	< 10	2.3	10	0.7	0.102	< 0.001	1.9	< 0.001	0.12	60
781651	< 3.0	11.3	< 30	1220	< 10	< 20	0.6	< 3	< 10	< 10	0.006	5.3	20	< 10	4.6	10	1.0	0.355	< 0.001	1.2	< 0.001	0.13	60
781652	< 3.0	10.7	< 30	860	< 10	< 20	1.1	5	20	20	0.037	5.9	30	< 10	3.9	10	1.0	0.382	< 0.001	1.1	< 0.001	0.11	960
781653	< 3.0	11.1	< 30	1220	< 10	< 20	0.9	< 3	10	10	0.003	5.4	20	< 10	4.4	10	1.1	0.230	< 0.001	1.6	< 0.001	0.13	30
781654	< 3.0	7.5	< 30	1570	< 10	< 20	1.6	< 3	< 10	30	0.005	2.7	20	< 10	2.2	20	0.6	0.165	< 0.001	1.8	< 0.001	0.08	40
781655	< 3.0	8.4	< 30	890	< 10	< 20	1.2	< 3	< 10	30	0.002	2.8	20	< 10	2.3	< 10	0.3	0.074	< 0.001	1.9	< 0.001	0.04	< 30
781656	< 3.0	8.6	< 30	660	< 10	< 20	0.9	< 3	< 10	30	0.003	5.7	20	< 10	2.2	10	0.4	0.108	< 0.001	2.1	< 0.001	0.11	< 30
781657	< 3.0	8.3	< 30	860	< 10	< 20	1.2	< 3	< 10	40	0.003	3.6	< 10	< 10	2.3	20	0.7	0.158	< 0.001	2.0	< 0.001	0.09	40
781658	< 3.0	8.2	< 30	810	< 10	< 20	1.1	< 3	< 10	40	< 0.001	2.3	20	< 10	1.9	< 10	0.3	0.049	< 0.001	1.7	< 0.001	0.07	< 30
781659	< 3.0	10.7	< 30	730	< 10	< 20	2.5	3	< 10	20	0.003	4.2	20	< 10	2.7	10	0.8	0.272	< 0.001	1.9	< 0.001	0.10	< 30
781660	< 3.0	10.9	< 30	620	< 10	< 20	2.6	< 3	< 10	10	0.004	3.5	10	10	3.2	< 10	0.6	0.197	< 0.001	0.8	< 0.001	0.12	< 30
781661	< 3.0	11.0	< 30	830	< 10	< 20	2.5	< 3	< 10	50	0.007	4.5	20	< 10	3.1	10	0.9	0.335	< 0.001	1.3	< 0.001	0.13	60
781662	< 3.0	8.4	< 30	910	< 10	< 20	1.5	< 3	< 10	80	0.006	4.0	20	< 10	2.1	20	0.7	0.230	< 0.001	1.3	0.002	0.07	100
781663	< 3.0	8.3	< 30	860	< 10	< 20	1.9	< 3	< 10	70	0.003	3.8	10	< 10	2.0	20	0.6	0.202	< 0.001	1.5	< 0.001	0.13	50
781664	< 3.0	8.3	< 30	1350	< 10	< 20	2.6	< 3	10	160	0.003	5.1	20	< 10	2.8	20	2.0	0.168	< 0.001	1.2	0.006	0.10	120
781665	< 3.0	8.5	< 30	1360	< 10	< 20	1.6	< 3	20	130	0.004	5.4	< 10	< 10	2.7	20	1.0	0.551	< 0.001	1.3	0.002	0.22	60
781666	< 3.0	8.7	< 30	900	< 10	< 20	0.9	< 3	< 10	40	0.004	4.4	< 10	< 10	2.7	10	0.7	0.418	< 0.001	1.7	< 0.001	0.20	40
781667	< 3.0	9.0	< 30	680	< 10	< 20	1.0	4	< 10	140	0.009	4.1	20	< 10	2.7	20	0.6	0.210	< 0.001	1.5	< 0.001	0.11	140

Results**Activation Laboratories Ltd.****Report: A17-07490**

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
781668	< 3.0	7.9	< 30	870	< 10	< 20	1.2	< 3	< 10	30	0.002	2.5	10	< 10	2.3	< 10	0.4	0.074	< 0.001	1.7	< 0.001	0.08	< 30
781669	< 3.0	8.1	< 30	730	< 10	< 20	1.1	< 3	< 10	30	0.003	3.3	20	< 10	2.2	10	0.5	0.093	< 0.001	1.5	< 0.001	0.14	< 30
781670	< 3.0	7.6	< 30	700	< 10	< 20	1.3	< 3	< 10	100	0.006	4.3	20	< 10	1.8	< 10	0.8	0.101	< 0.001	1.4	< 0.001	0.22	< 30
781671	< 3.0	7.6	< 30	900	< 10	< 20	1.3	< 3	< 10	20	0.007	3.5	< 10	< 10	2.2	10	0.9	0.105	< 0.001	1.6	< 0.001	0.11	< 30
781672	< 3.0	8.4	< 30	770	< 10	< 20	1.3	< 3	< 10	40	0.004	2.6	< 10	< 10	2.0	10	0.5	0.074	< 0.001	1.6	< 0.001	0.06	< 30
781673	< 3.0	8.8	< 30	810	< 10	< 20	1.2	< 3	< 10	40	0.004	3.2	20	< 10	2.2	20	0.7	0.095	< 0.001	1.5	< 0.001	0.08	< 30
781674	< 3.0	9.9	< 30	850	< 10	< 20	0.8	< 3	< 10	20	0.012	5.0	20	< 10	3.6	20	0.8	0.412	< 0.001	1.3	< 0.001	0.18	40
781675	< 3.0	7.7	< 30	710	< 10	< 20	0.6	< 3	< 10	40	0.001	2.5	< 10	< 10	2.5	< 10	0.3	0.083	< 0.001	1.2	< 0.001	0.11	< 30
781676	< 3.0	7.2	< 30	620	< 10	< 20	0.6	< 3	< 10	30	0.001	2.7	< 10	< 10	2.3	< 10	0.3	0.115	< 0.001	1.2	< 0.001	0.12	< 30
781677	< 3.0	9.0	< 30	770	< 10	< 20	0.9	< 3	< 10	40	0.002	3.9	20	< 10	2.1	10	0.5	0.105	< 0.001	1.4	< 0.001	0.16	< 30
781678	< 3.0	8.3	< 30	760	< 10	< 20	1.0	< 3	< 10	20	0.002	4.6	10	< 10	2.0	10	0.6	0.110	< 0.001	1.5	< 0.001	0.15	60
781679	< 3.0	10.4	< 30	1070	< 10	< 20	0.6	5	< 10	< 10	0.008	3.9	20	< 10	4.7	10	0.8	0.272	< 0.001	1.3	< 0.001	0.12	< 30
781680	< 3.0	11.0	< 30	1200	< 10	< 20	0.8	< 3	< 10	< 10	0.003	4.8	< 10	< 10	4.6	10	0.8	0.386	< 0.001	1.3	< 0.001	0.12	50
781681	< 3.0	10.3	< 30	1060	< 10	< 20	0.7	< 3	< 10	< 10	0.009	4.5	< 10	< 10	4.0	10	0.7	0.248	< 0.001	1.5	< 0.001	0.10	< 30
781682	< 3.0	8.7	< 30	1070	< 10	< 20	1.0	5	< 10	20	0.007	4.5	10	< 10	3.2	10	0.7	0.350	< 0.001	1.7	< 0.001	0.17	70
781683	< 3.0	7.9	< 30	800	< 10	< 20	0.7	< 3	< 10	30	0.001	3.3	< 10	< 10	2.4	< 10	0.4	0.090	< 0.001	1.4	< 0.001	0.14	< 30
781684	< 3.0	8.6	< 30	880	< 10	< 20	0.7	< 3	< 10	30	0.002	3.8	< 10	< 10	2.2	10	0.6	0.109	< 0.001	1.7	< 0.001	0.14	30
781685	< 3.0	7.5	< 30	720	< 10	< 20	0.4	< 3	< 10	50	0.006	4.4	20	< 10	3.0	10	0.5	0.168	< 0.001	0.9	< 0.001	0.20	130
781686	< 3.0	7.7	< 30	1020	< 10	< 20	0.7	6	10	40	0.004	3.8	< 10	< 10	3.0	< 10	0.5	0.478	< 0.001	1.3	< 0.001	0.22	190
781687	< 3.0	8.4	< 30	740	< 10	< 20	0.6	< 3	< 10	30	0.001	2.4	< 10	< 10	2.7	< 10	0.4	0.078	< 0.001	1.4	< 0.001	0.09	< 30
781688	< 3.0	9.0	< 30	830	< 10	< 20	0.9	< 3	< 10	30	0.002	4.0	10	< 10	2.2	10	0.5	0.083	< 0.001	1.9	< 0.001	0.09	< 30
781689	< 3.0	8.2	< 30	810	< 10	< 20	1.0	< 3	< 10	30	0.002	3.9	10	< 10	2.0	< 10	0.5	0.086	< 0.001	1.4	0.001	0.09	50
745920	< 3.0	5.4	< 30	520	< 10	< 20	1.9	< 3	< 10	50	0.005	3.4	< 10	< 10	1.2	10	0.9	0.058	< 0.001	2.2	0.002	0.04	< 30
745921	< 3.0	7.7	< 30	760	< 10	< 20	1.9	< 3	< 10	30	0.103	3.7	< 10	< 10	2.2	< 10	0.7	0.070	< 0.001	2.7	< 0.001	0.05	< 30

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
981100	0.2	< 50	< 40	360	< 20	0.5	< 50	< 100	130	< 50	20	0.013	90	0.079	< 1	0.124	12.4	1.0	2	0.032	0.46	2.20	0.15
981101	< 0.1	< 50	< 40	330	< 20	0.4	< 50	< 100	100	< 50	20	0.010	100	0.096	< 1	0.097	13.1	0.8	3	0.022	0.65	2.17	0.11
981102	0.2	< 50	< 40	230	< 20	0.6	< 50	< 100	110	< 50	20	0.010	120	0.043	< 1	0.138	10.8	0.6	1	0.024	0.37	2.14	0.16
981103	< 0.1	< 50	< 40	160	< 20	0.6	< 50	< 100	110	< 50	10	0.007	120	0.010	< 1	0.099	7.7	0.4	< 1	0.019	0.33	1.90	0.15
981104	0.1	< 50	< 40	160	< 20	0.6	< 50	< 100	120	< 50	20	0.010	100	0.012	< 1	0.157	10.4	0.6	< 1	0.018	0.40	1.83	0.13
981105	0.1	< 50	< 40	190	< 20	0.5	< 50	< 100	110	< 50	20	0.009	100	0.049	< 1	0.102	12.9	1.0	1	0.018	0.49	2.71	0.11
981106	< 0.1	< 50	< 40	150	< 20	0.3	< 50	< 100	110	< 50	20	0.006	60	0.027	< 1	0.123	13.3	0.5	< 1	0.014	0.34	1.80	0.11
981107	< 0.1	< 50	< 40	260	< 20	0.5	< 50	< 100	100	< 50	30	0.006	70	0.177	< 1	0.100	10.0	0.6	2	0.017	0.53	1.87	0.21
981108	0.1	< 50	< 40	180	< 20	0.6	< 50	< 100	110	< 50	20	0.022	100	0.044	< 1	0.104	17.9	0.7	1	0.020	0.32	2.33	0.12
981109	< 0.1	< 50	< 40	260	< 20	0.6	< 50	< 100	150	< 50	20	0.017	160	0.195	< 1	0.133	17.0	1.3	2	0.027	0.83	4.35	0.14
981110	< 0.1	< 50	< 40	190	< 20	0.4	< 50	< 100	80	< 50	20	0.014	60	0.101	< 1	0.092	17.5	1.2	1	0.019	0.54	2.79	0.11
981111	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	90	< 50	20	0.009	60	0.137	< 1	0.089	18.1	0.7	3	0.018	0.70	2.61	0.15
981112	< 0.1	< 50	< 40	350	< 20	0.6	< 50	< 100	120	< 50	20	0.018	100	0.166	< 1	0.111	19.2	1.1	4	0.019	0.74	2.65	0.12
981113	0.1	< 50	< 40	320	40	0.6	< 50	< 100	110	< 50	20	0.026	110	0.100	< 1	0.099	19.1	0.6	1	0.018	0.49	2.19	0.08
981114	0.8	< 50	< 40	380	< 20	0.5	< 50	< 100	90	< 50	10	0.009	110	0.050	< 1	0.039	3.6	0.1	1	0.018	0.09	0.83	0.08
981115	0.4	< 50	< 40	260	< 20	0.4	< 50	< 100	90	< 50	20	0.011	90	0.019	< 1	0.169	8.3	0.5	2	0.032	0.28	2.28	0.13
981116	0.2	< 50	< 40	270	< 20	0.4	< 50	< 100	90	< 50	10	0.021	80	0.015	< 1	0.086	13.9	0.4	< 1	0.020	0.27	1.43	0.11
981117	< 0.1	< 50	< 40	280	< 20	0.4	< 50	< 100	90	< 50	20	0.030	60	0.061	< 1	0.048	13.3	0.4	1	0.019	0.40	1.90	0.11
981118	< 0.1	< 50	< 40	260	< 20	0.5	< 50	< 100	100	< 50	10	0.038	80	0.092	< 1	0.036	10.6	0.4	2	0.020	0.38	1.99	0.10
981119	< 0.1	< 50	< 40	200	< 20	0.3	< 50	< 100	80	< 50	10	0.012	60	0.078	< 1	0.055	13.7	0.3	2	0.019	0.35	1.80	0.08
981120	< 0.1	< 50	< 40	180	< 20	0.6	< 50	< 100	100	< 50	10	0.022	90	0.076	< 1	0.089	17.6	0.5	2	0.020	0.35	3.11	0.08
981121	< 0.1	< 50	< 40	270	< 20	0.5	< 50	< 100	100	< 50	10	0.012	90	0.094	< 1	0.031	6.3	0.3	< 1	0.018	0.26	1.62	0.10
981122	< 0.1	< 50	< 40	270	< 20	0.5	< 50	< 100	110	< 50	20	0.075	90	0.072	< 1	0.025	18.2	0.5	1	0.020	0.27	1.79	0.06
981123	< 0.1	< 50	< 40	250	< 20	0.7	< 50	< 100	140	< 50	10	0.017	120	0.104	< 1	0.066	12.3	0.4	< 1	0.022	0.18	2.09	0.05
981124	< 0.1	< 50	< 40	140	< 20	0.6	< 50	< 100	90	< 50	20	0.089	210	0.057	< 1	0.124	15.4	1.8	1	0.023	0.24	3.51	0.06
981125	< 0.1	< 50	< 40	200	< 20	0.6	< 50	< 100	150	< 50	10	0.014	120	0.090	< 1	0.157	12.0	0.3	< 1	0.018	0.25	1.96	0.07
981126	< 0.1	< 50	< 40	190	< 20	0.6	< 50	< 100	140	< 50	20	0.044	140	0.113	< 1	0.130	29.0	0.6	< 1	0.021	0.30	2.85	0.09
981127	< 0.1	< 50	< 40	230	< 20	0.2	< 50	< 100	50	< 50	10	0.017	< 50	0.070	< 1	0.055	7.8	< 0.1	< 1	0.018	0.20	1.17	0.06
981128	< 0.1	< 50	< 40	210	< 20	0.5	< 50	< 100	150	< 50	10	0.009	90	0.086	< 1	0.102	10.2	0.3	< 1	0.018	0.24	1.69	0.07
981129	< 0.1	< 50	< 40	300	< 20	0.5	< 50	< 100	130	< 50	40	0.066	90	0.055	< 1	0.123	7.8	0.8	2	0.016	0.43	2.52	0.19
981130	< 0.1	< 50	< 40	340	< 20	0.5	< 50	< 100	110	< 50	30	0.006	70	0.052	< 1	0.129	5.8	0.6	< 1	0.017	0.26	2.85	0.16
981131	0.5	< 50	< 40	200	< 20	0.5	< 50	< 100	120	< 50	20	0.014	120	0.012	< 1	0.129	8.4	0.4	< 1	0.047	0.45	1.98	0.33
981132	< 0.1	< 50	< 40	20	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	0.001	< 50	0.066	1	0.380	7.0	0.5	< 1	0.069	0.44	2.82	0.44
981133	< 0.1	< 50	< 40	20	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	0.003	< 50	0.026	< 1	0.264	9.7	0.6	< 1	0.040	0.46	3.08	0.35
981134	0.2	< 50	< 40	210	< 20	0.6	< 50	< 100	130	< 50	10	0.008	110	0.028	< 1	0.125	6.4	0.3	< 1	0.027	0.31	2.15	0.14
981135	0.4	< 50	< 40	230	< 20	0.6	< 50	< 100	160	< 50	20	0.012	130	0.042	< 1	0.165	6.5	0.4	< 1	0.061	0.35	2.63	0.27
981136	0.2	< 50	< 40	200	< 20	0.5	< 50	< 100	110	< 50	10	0.016	110	0.031	< 1	0.119	10.9	0.7	< 1	0.033	0.35	3.57	0.14
981137	0.2	< 50	< 40	250	< 20	0.5	< 50	< 100	130	< 50	20	0.011	100	0.064	< 1	0.160	8.2	0.6	< 1	0.032	0.37	2.82	0.13
981138	0.4	< 50	< 40	210	< 20	0.4	< 50	< 100	100	< 50	20	0.031	70	0.011	< 1	0.184	6.4	0.8	< 1	0.028	0.39	1.64	0.26
981139	< 0.1	< 50	< 40	500	< 20	0.6	< 50	< 100	200	< 50	30	0.145	110	0.075	< 1	0.123	7.5	0.9	< 1	0.015	0.52	1.95	0.23
981140	0.1	< 50	< 40	380	< 20	0.7	< 50	< 100	200	< 50	30	0.026	100	0.040	< 1	0.133	14.2	0.9	< 1	0.018	0.48	2.60	0.19
981141	0.1	< 50	< 40	300	30	0.8	< 50	< 100	180	< 50	20	0.030	100	0.103	< 1	0.101	10.1	0.8	< 1	0.018	0.62	2.19	0.15

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
981142	0.1	< 50	< 40	380	60	0.7	< 50	< 100	230	< 50	30	0.045	100	0.059	< 1	0.139	11.4	1.1	< 1	0.015	0.65	2.32	0.21
981143	0.2	< 50	< 40	160	< 20	0.4	< 50	< 100	110	< 50	10	0.019	70	0.022	< 1	0.267	4.0	0.8	< 1	0.019	0.32	1.57	0.12
981144	< 0.1	< 50	< 40	190	< 20	0.7	< 50	< 100	130	< 50	10	0.023	100	0.016	< 1	0.105	9.8	0.7	< 1	0.017	0.53	1.92	0.26
981145	0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	150	< 50	20	0.017	< 50	0.013	< 1	0.222	15.2	0.7	< 1	0.032	0.56	2.51	0.16
981146	0.8	< 50	< 40	220	< 20	0.5	< 50	< 100	110	< 50	10	0.008	70	0.002	< 1	0.088	2.9	0.3	< 1	0.053	0.12	1.43	0.45
981147	0.1	< 50	< 40	300	< 20	0.4	< 50	< 100	180	< 50	40	0.018	80	0.010	< 1	0.175	11.8	1.2	< 1	0.017	0.46	2.12	0.15
981148	< 0.1	< 50	< 40	410	< 20	0.5	< 50	< 100	140	< 50	20	0.017	90	0.047	< 1	0.103	11.7	0.5	< 1	0.018	0.33	1.97	0.08
981149	< 0.1	< 50	< 40	200	< 20	0.5	< 50	< 100	110	< 50	20	0.011	160	0.040	< 1	0.137	13.6	0.5	< 1	0.024	0.29	2.42	0.13
981150	< 0.1	< 50	< 40	150	30	0.5	< 50	< 100	110	< 50	20	0.012	80	0.014	< 1	0.167	11.6	0.7	< 1	0.018	0.31	1.81	0.11
981151	0.1	< 50	< 40	220	< 20	0.5	< 50	< 100	130	< 50	10	0.015	100	0.032	< 1	0.189	7.3	0.5	< 1	0.022	0.44	2.70	0.09
981152	0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	110	< 50	10	0.005	80	0.040	< 1	0.101	3.6	0.4	< 1	0.025	0.21	1.83	0.11
981153	0.3	< 50	< 40	190	< 20	0.4	< 50	< 100	110	< 50	10	0.008	70	0.026	< 1	0.198	5.7	0.7	< 1	0.035	0.22	3.03	0.15
981154	0.2	< 50	< 40	300	< 20	0.3	< 50	< 100	80	< 50	10	0.018	60	0.068	< 1	0.084	10.1	0.6	< 1	0.024	0.32	2.19	0.11
981155	< 0.1	< 50	< 40	220	< 20	0.4	< 50	< 100	70	< 50	10	0.019	60	0.055	< 1	0.116	10.5	0.6	< 1	0.020	0.29	2.25	0.13
981156	< 0.1	< 50	< 40	280	90	0.3	< 50	< 100	80	< 50	10	0.015	< 50	0.011	< 1	0.130	2.7	0.3	< 1	0.021	0.16	1.46	0.15
981157	< 0.1	< 50	< 40	380	< 20	0.5	< 50	< 100	110	< 50	20	0.012	60	0.066	< 1	0.053	4.2	0.3	< 1	0.019	0.20	1.36	0.08
981158	< 0.1	< 50	< 40	250	60	0.7	< 50	< 100	140	< 50	20	0.046	120	0.148	< 1	0.119	25.8	0.8	< 1	0.023	0.50	2.71	0.10
981159	< 0.1	< 50	< 40	300	< 20	0.6	< 50	< 100	100	< 50	10	0.027	90	0.064	< 1	0.091	8.5	0.3	< 1	0.019	0.25	1.47	0.09
981160	< 0.1	< 50	< 40	440	70	0.6	< 50	< 100	120	< 50	30	0.049	80	0.084	< 1	0.055	14.0	0.9	< 1	0.021	0.54	2.11	0.08
981161	< 0.1	< 50	< 40	180	< 20	0.6	< 50	< 100	100	< 50	20	0.047	170	0.046	< 1	0.132	19.4	0.6	< 1	0.020	0.33	2.58	0.17
981162	< 0.1	< 50	< 40	200	< 20	0.5	< 50	< 100	70	< 50	10	0.054	110	0.113	< 1	0.107	11.4	1.0	< 1	0.019	0.26	2.65	0.07
981163	< 0.1	< 50	< 40	280	70	0.5	< 50	< 100	100	< 50	20	0.057	70	0.105	< 1	0.063	10.2	0.6	< 1	0.018	0.43	2.43	0.09
981164	< 0.1	< 50	< 40	140	40	0.4	< 50	< 100	110	< 50	180	0.620	90	0.040	< 1	0.150	25.8	5.5	< 1	0.020	0.62	5.08	0.19
981165	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	90	< 50	20	0.093	80	0.097	< 1	0.088	15.6	0.8	< 1	0.020	0.41	2.85	0.09
981166	< 0.1	< 50	< 40	290	< 20	0.2	< 50	< 100	60	< 50	20	0.197	80	0.086	< 1	0.054	22.1	1.7	< 1	0.021	0.60	2.89	0.10
981167	< 0.1	< 50	< 40	370	< 20	0.6	< 50	< 100	120	< 50	10	0.053	70	0.137	< 1	0.023	14.5	0.4	< 1	0.019	0.61	2.62	0.07
981168	< 0.1	< 50	< 40	210	< 20	0.5	< 50	< 100	140	< 50	20	0.059	120	0.184	< 1	0.058	17.6	0.8	< 1	0.023	0.44	3.16	0.05
981169	< 0.1	< 50	< 40	100	30	0.3	< 50	< 100	70	< 50	10	0.021	120	0.018	< 1	0.015	9.6	0.3	< 1	0.015	0.24	2.40	0.15
981170	< 0.1	< 50	< 40	280	< 20	0.6	< 50	< 100	130	< 50	20	0.028	90	0.113	< 1	0.112	15.6	0.5	< 1	0.018	0.44	2.39	0.06
981171	< 0.1	< 50	< 40	190	< 20	0.5	< 50	< 100	100	< 50	30	0.153	220	0.112	< 1	0.120	15.2	2.3	1	0.025	0.57	4.23	0.08
981172	< 0.1	< 50	< 40	280	< 20	0.5	< 50	< 100	120	< 50	10	0.017	90	0.115	< 1	0.069	15.6	0.4	< 1	0.018	0.39	2.18	0.07
981173	< 0.1	< 50	< 40	240	< 20	0.1	< 50	< 100	30	< 50	10	0.010	< 50	0.089	< 1	0.040	5.9	0.1	< 1	0.018	0.17	1.32	0.04
981174	< 0.1	< 50	< 40	310	< 20	0.2	< 50	< 100	60	< 50	20	0.024	60	0.079	< 1	0.037	10.4	0.2	< 1	0.019	0.29	2.58	0.05
981175	< 0.1	< 50	< 40	360	< 20	0.5	< 50	< 100	110	< 50	30	0.095	100	0.074	< 1	0.076	10.7	2.8	< 1	0.019	0.33	3.65	0.09
981176	0.6	< 50	< 40	180	30	0.7	< 50	< 100	150	< 50	20	0.040	100	0.098	< 1	0.123	11.9	0.9	< 1	0.021	0.71	2.14	0.45
981177	0.1	< 50	< 40	350	< 20	0.6	< 50	< 100	160	< 50	20	0.017	100	0.019	< 1	0.189	9.2	0.8	< 1	0.017	0.55	1.95	0.18
981178	< 0.1	< 50	< 40	330	< 20	0.7	< 50	< 100	150	< 50	20	0.048	120	0.023	< 1	0.115	11.5	0.7	< 1	0.017	0.63	2.65	0.12
981179	< 0.1	< 50	< 40	270	< 20	0.6	< 50	< 100	130	< 50	20	0.015	90	0.042	< 1	0.122	13.1	0.4	< 1	0.018	0.68	2.44	0.09
981180	0.2	< 50	< 40	300	< 20	0.5	< 50	< 100	130	< 50	20	0.006	130	0.017	< 1	0.148	5.2	0.4	< 1	0.047	0.23	2.09	0.19
981181	0.1	< 50	< 40	240	< 20	0.7	< 50	< 100	110	< 50	20	0.005	140	0.017	< 1	0.091	2.6	0.1	< 1	0.027	0.16	1.74	0.11
981182	0.1	< 50	< 40	250	< 20	0.6	< 50	< 100	120	< 50	10	0.009	120	0.032	< 1	0.125	6.6	0.6	< 1	0.036	0.30	2.45	0.14
981183	0.2	< 50	< 40	240	< 20	0.4	< 50	< 100	90	< 50	10	0.009	100	0.036	< 1	0.128	6.5	0.4	< 1	0.031	0.27	3.15	0.11

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	AR-MS																				
981184	< 0.1	< 50	< 40	270	< 20	0.4	< 50	< 100	120	< 50	10	0.018	70	0.036	< 1	0.147	9.2	0.8	< 1	0.019	0.56	3.15	0.13
981185	< 0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	70	< 50	10	0.011	70	0.031	< 1	0.081	10.0	0.4	< 1	0.023	0.35	2.22	0.10
981186	0.1	< 50	< 40	260	< 20	0.7	< 50	< 100	120	< 50	20	0.010	130	0.015	< 1	0.093	6.3	0.2	< 1	0.025	0.27	1.89	0.14
981187	< 0.1	< 50	< 40	240	< 20	0.6	< 50	< 100	120	< 50	20	0.010	170	0.026	< 1	0.072	7.2	0.4	< 1	0.027	0.32	2.06	0.15
981188	< 0.1	< 50	< 40	30	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	< 0.001	< 50	0.007	< 1	0.176	12.9	1.2	< 1	0.032	0.66	3.88	0.42
981189	1.0	< 50	< 40	180	< 20	0.6	< 50	< 100	140	< 50	20	0.014	130	0.185	1	0.157	4.8	0.4	< 1	0.068	0.61	2.04	0.65
981190	0.4	< 50	< 40	320	< 20	0.6	< 50	< 100	170	< 50	30	0.071	110	0.141	< 1	0.270	12.9	1.4	< 1	0.049	0.97	3.03	0.31
981191	0.2	< 50	< 40	380	< 20	0.7	< 50	< 100	140	< 50	40	0.075	160	0.248	< 1	0.172	12.0	1.7	< 1	0.030	0.92	2.55	0.28
981192	0.5	< 50	< 40	240	40	0.6	< 50	< 100	140	< 50	30	0.033	150	0.138	< 1	0.147	8.0	0.9	< 1	0.048	0.80	1.88	0.35
981193	< 0.1	< 50	< 40	370	< 20	0.4	< 50	< 100	100	< 50	30	0.024	140	0.049	< 1	0.104	8.4	0.7	< 1	0.018	0.69	4.20	0.11
981194	< 0.1	< 50	< 40	260	< 20	0.4	< 50	< 100	100	< 50	20	0.018	< 50	0.080	< 1	0.102	13.6	0.9	< 1	0.022	0.78	2.96	0.10
981195	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	70	< 50	20	0.010	50	0.091	< 1	0.097	14.2	1.0	1	0.025	0.65	3.10	0.11
981196	< 0.1	< 50	< 40	220	< 20	0.6	< 50	< 100	120	< 50	30	0.031	180	0.054	< 1	0.082	14.2	1.2	54	0.025	0.76	2.80	0.14
981197	< 0.1	< 50	< 40	100	20	0.5	< 50	< 100	100	< 50	30	0.017	190	0.007	< 1	0.092	16.7	1.9	< 1	0.016	0.84	2.89	0.35
981198	< 0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	120	< 50	30	0.029	100	0.036	< 1	0.131	13.6	1.3	< 1	0.023	1.01	3.09	0.13
981199	< 0.1	< 50	< 40	120	< 20	0.6	< 50	< 100	140	< 50	40	0.104	130	0.005	< 1	0.194	6.2	1.4	< 1	0.018	0.33	2.03	0.25
745918	< 0.1	< 50	< 40	280	< 20	0.5	< 50	< 100	110	< 50	20	0.005	60	0.209	< 1	0.059	10.0	0.3	6	0.155	0.85	1.88	0.15
745919	0.2	< 50	< 40	520	< 20	0.9	< 50	< 100	150	< 50	30	0.008	180	0.268	< 1	0.150	18.8	0.6	< 1	0.243	1.73	3.32	0.24
981201	< 0.1	< 50	< 40	270	20	0.7	< 50	< 100	200	< 50	50	0.054	110	0.057	< 1	0.147	17.8	1.5	< 1	0.021	1.31	2.47	0.18
981202	0.2	< 50	< 40	120	60	0.9	< 50	< 100	270	< 50	40	0.036	90	0.169	< 1	0.205	26.4	2.0	< 1	0.023	1.92	3.66	0.47
981203	1.3	< 50	< 40	60	< 20	0.7	< 50	< 100	160	< 50	20	0.011	130	0.001	2	0.121	2.8	0.4	< 1	0.023	0.28	1.29	0.94
981204	0.4	< 50	< 40	200	< 20	0.5	< 50	< 100	190	< 50	20	0.040	100	0.004	< 1	0.151	7.1	0.7	< 1	0.019	0.42	1.71	0.33
981205	0.2	< 50	< 40	180	< 20	0.5	< 50	< 100	120	< 50	10	0.016	90	0.006	< 1	0.182	1.7	0.4	< 1	0.018	0.10	1.16	0.16
981206	0.2	< 50	< 40	180	< 20	0.6	< 50	< 100	150	< 50	20	0.018	100	0.020	< 1	0.196	4.7	0.6	< 1	0.017	0.26	1.65	0.14
981207	0.2	< 50	< 40	210	< 20	0.6	< 50	< 100	140	< 50	20	0.020	120	0.032	< 1	0.115	6.5	0.6	< 1	0.018	0.41	1.76	0.15
981208	0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	120	< 50	10	0.011	100	0.018	< 1	0.176	2.1	0.4	< 1	0.019	0.17	1.33	0.13
981209	< 0.1	< 50	< 40	260	< 20	0.7	< 50	< 100	140	< 50	20	0.015	120	0.099	< 1	0.140	8.1	0.4	< 1	0.020	0.54	2.48	0.12
981210	0.1	< 50	< 40	210	< 20	0.4	< 50	< 100	140	< 50	40	0.043	100	0.034	< 1	0.152	8.9	0.8	< 1	0.017	0.61	2.24	0.22
981211	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	90	< 50	20	0.012	60	0.052	< 1	0.095	9.4	0.4	< 1	0.023	0.38	2.82	0.10
981212	< 0.1	< 50	< 40	280	30	0.5	< 50	< 100	130	< 50	20	0.009	70	0.073	< 1	0.134	3.1	0.3	< 1	0.020	0.41	2.42	0.12
981213	< 0.1	< 50	< 40	240	< 20	0.5	< 50	< 100	100	< 50	20	0.016	110	0.062	< 1	0.151	16.9	0.7	< 1	0.020	0.69	4.36	0.10
981214	< 0.1	< 50	< 40	280	< 20	0.4	< 50	< 100	140	< 50	20	0.015	60	0.072	< 1	0.155	8.6	0.4	< 1	0.021	0.56	2.94	0.10
981215	0.1	< 50	< 40	190	< 20	0.7	< 50	< 100	140	< 50	20	0.010	170	0.060	< 1	0.102	6.4	0.3	< 1	0.024	0.42	2.14	0.11
981216	< 0.1	< 50	< 40	350	< 20	0.7	< 50	< 100	180	< 50	30	0.020	160	0.150	< 1	0.155	10.9	0.8	< 1	0.025	0.90	2.46	0.12
981217	0.1	< 50	< 40	230	< 20	0.7	< 50	< 100	160	< 50	20	0.020	130	0.103	< 1	0.116	9.4	0.6	< 1	0.018	0.77	2.49	0.17
981218	< 0.1	< 50	< 40	410	< 20	0.7	< 50	< 100	170	< 50	30	0.108	140	0.064	< 1	0.211	17.2	1.7	< 1	0.018	1.05	3.02	0.11
981219	0.2	< 50	< 40	200	< 20	0.7	< 50	< 100	170	< 50	20	0.019	130	0.108	< 1	0.137	7.6	0.6	< 1	0.020	0.63	2.21	0.26
981220	0.3	< 50	< 40	220	< 20	0.7	< 50	< 100	200	< 50	30	0.053	130	0.140	< 1	0.217	13.5	1.6	< 1	0.022	1.04	2.83	0.36
981221	< 0.1	< 50	< 40	90	< 20	0.5	< 50	< 100	90	< 50	30	0.011	110	0.008	< 1	0.114	7.2	1.1	< 1	0.018	0.46	1.57	0.33
981222	< 0.1	< 50	< 40	140	< 20	0.5	< 50	< 100	110	< 50	20	0.008	80	0.011	< 1	0.242	7.2	1.0	< 1	0.020	0.46	1.83	0.31
981223	< 0.1	< 50	< 40	250	< 20	0.6	< 50	< 100	120	< 50	40	0.014	80	0.033	< 1	0.216	13.9	0.7	1	0.020	0.93	1.93	0.30
981224	< 0.1	< 50	< 40	220	< 20	0.7	< 50	< 100	130	< 50	20	0.061	90	0.015	< 1	0.134	13.6	0.9	< 1	0.022	0.71	2.38	0.30

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
981225	< 0.1	< 50	< 40	150	< 20	0.5	< 50	< 100	100	< 50	10	0.010	90	0.008	< 1	0.262	9.6	0.8	< 1	0.021	0.49	1.89	0.24
981226	< 0.1	< 50	< 40	140	< 20	0.6	< 50	< 100	120	< 50	10	0.009	130	0.007	< 1	0.214	8.6	0.7	< 1	0.019	0.38	1.97	0.21
981227	< 0.1	< 50	< 40	170	< 20	0.6	< 50	< 100	140	< 50	10	0.012	80	0.007	< 1	0.176	11.8	0.4	< 1	0.018	0.58	2.00	0.15
981228	0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	160	< 50	10	0.013	100	0.008	< 1	0.299	3.6	0.6	1	0.020	0.30	1.56	0.14
981229	< 0.1	< 50	< 40	150	< 20	0.7	< 50	< 100	190	< 50	< 10	0.015	70	0.017	< 1	0.120	17.7	0.3	< 1	0.021	0.96	2.46	0.12
981230	< 0.1	< 50	< 40	190	100	0.8	< 50	< 100	190	< 50	10	0.010	120	0.046	< 1	0.150	5.2	0.3	< 1	0.024	0.47	1.94	0.11
981231	< 0.1	< 50	< 40	200	< 20	0.2	< 50	< 100	50	< 50	10	0.005	< 50	0.019	< 1	0.053	6.8	0.2	< 1	0.023	0.24	2.13	0.07
981232	< 0.1	< 50	< 40	190	< 20	0.3	< 50	< 100	90	< 50	10	0.011	< 50	0.021	< 1	0.064	11.6	0.3	< 1	0.019	0.57	2.14	0.12
981233	< 0.1	< 50	< 40	270	< 20	0.3	< 50	< 100	70	< 50	20	0.021	< 50	0.014	< 1	0.086	10.6	0.5	< 1	0.021	0.61	2.11	0.10
981234	< 0.1	< 50	< 40	120	< 20	0.4	< 50	< 100	120	< 50	10	0.026	120	0.021	< 1	0.199	20.8	0.9	1	0.024	0.61	4.10	0.17
981235	< 0.1	< 50	< 40	240	< 20	0.6	< 50	< 100	140	< 50	30	0.014	150	0.041	< 1	0.096	7.7	0.5	< 1	0.026	0.39	2.25	0.13
981236	< 0.1	< 50	< 40	210	< 20	0.6	< 50	< 100	160	< 50	10	0.022	80	0.016	< 1	0.129	7.6	0.5	< 1	0.018	0.46	2.66	0.13
981237	< 0.1	< 50	< 40	200	< 20	0.6	< 50	< 100	210	< 50	20	0.030	200	0.045	< 1	0.080	20.2	0.7	< 1	0.043	1.62	2.94	0.05
981238	< 0.1	< 50	< 40	190	30	0.5	< 50	< 100	90	< 50	10	0.019	80	0.006	< 1	0.097	5.4	0.2	< 1	0.018	0.33	1.83	0.15
981239	< 0.1	< 50	< 40	200	< 20	0.5	< 50	< 100	100	< 50	10	0.014	90	0.012	< 1	0.066	6.2	0.2	< 1	0.022	0.40	2.23	0.10
981240	< 0.1	< 50	< 40	210	< 20	0.7	< 50	< 100	120	< 50	20	0.008	160	0.013	< 1	0.077	3.5	0.2	< 1	0.024	0.17	2.17	0.10
981241	< 0.1	< 50	< 40	220	< 20	0.6	< 50	< 100	120	< 50	10	0.011	110	0.013	< 1	0.051	4.8	0.2	< 1	0.022	0.29	2.49	0.11
981242	< 0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	80	< 50	10	0.010	80	0.012	< 1	0.042	2.9	0.2	< 1	0.020	0.21	1.59	0.11
981243	< 0.1	< 50	< 40	240	50	0.3	< 50	< 100	90	< 50	230	0.045	50	0.006	< 1	0.099	17.6	1.4	< 1	0.019	0.48	1.96	0.17
981244	0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	90	< 50	150	0.053	120	0.017	< 1	0.221	14.1	1.3	< 1	0.018	0.37	1.71	0.10
981245	< 0.1	< 50	< 40	220	< 20	0.6	< 50	< 100	120	< 50	10	0.009	80	0.008	< 1	0.062	4.5	0.1	< 1	0.016	0.26	1.94	0.08
981246	< 0.1	< 50	< 40	220	< 20	0.5	< 50	< 100	100	< 50	40	0.069	100	0.008	< 1	0.097	13.4	0.7	< 1	0.019	0.45	1.53	0.15
981247	< 0.1	< 50	< 40	160	< 20	0.3	< 50	< 100	110	< 50	110	0.200	90	0.001	< 1	0.134	20.7	1.2	< 1	0.021	0.46	2.40	0.27
981248	< 0.1	< 50	< 40	200	< 20	0.3	< 50	< 100	70	< 50	< 10	0.005	< 50	0.006	< 1	0.061	1.8	0.2	< 1	0.019	0.18	1.79	0.09
981249	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	70	< 50	10	0.012	< 50	0.012	< 1	0.107	9.3	0.2	< 1	0.018	0.40	2.06	0.11
781651	< 0.1	< 50	< 40	110	< 20	0.6	< 50	< 100	120	< 50	40	0.017	80	0.006	< 1	0.131	6.9	0.9	< 1	0.017	0.46	1.41	0.27
781652	< 0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	120	< 50	40	0.070	70	0.004	< 1	0.111	9.1	1.2	< 1	0.016	0.53	1.91	0.23
781653	< 0.1	< 50	< 40	210	< 20	0.7	< 50	< 100	150	< 50	40	0.016	80	0.021	< 1	0.153	9.8	1.1	< 1	0.017	0.61	1.53	0.30
781654	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	60	< 50	30	0.030	< 50	0.008	< 1	0.086	13.0	0.6	3	0.022	0.38	2.11	0.13
781655	< 0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	100	< 50	10	0.007	100	0.009	< 1	0.026	1.6	0.1	< 1	0.020	0.15	1.53	0.07
781656	< 0.1	< 50	< 40	200	< 20	0.5	< 50	< 100	110	< 50	10	0.011	160	0.016	< 1	0.084	5.5	0.3	< 1	0.033	0.24	2.27	0.07
781657	< 0.1	< 50	< 40	270	< 20	0.5	< 50	< 100	90	< 50	10	0.015	70	0.013	< 1	0.087	9.9	0.3	< 1	0.019	0.44	1.69	0.09
781658	< 0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	90	< 50	10	0.004	100	0.003	< 1	0.052	0.9	0.1	< 1	0.020	0.09	1.64	0.05
781659	< 0.1	< 50	< 40	360	60	0.5	< 50	< 100	90	< 50	20	0.026	80	0.010	< 1	0.090	7.1	0.5	< 1	0.019	0.49	2.29	0.13
781660	< 0.1	< 50	< 40	320	< 20	0.4	< 50	< 100	80	< 50	10	0.017	80	0.002	< 1	0.118	3.7	0.5	< 1	0.016	0.25	1.88	0.14
781661	< 0.1	< 50	< 40	360	< 20	0.6	< 50	< 100	120	< 50	20	0.020	120	0.009	< 1	0.109	8.5	0.7	< 1	0.018	0.47	2.22	0.16
781662	< 0.1	< 50	< 40	300	< 20	0.3	< 50	< 100	70	< 50	20	0.010	70	0.007	< 1	0.054	11.4	0.7	< 1	0.019	0.41	2.33	0.10
781663	< 0.1	< 50	< 40	370	< 20	0.5	< 50	< 100	100	< 50	10	0.013	100	0.006	< 1	0.111	9.6	0.5	< 1	0.020	0.37	1.76	0.10
781664	< 0.1	< 50	< 40	330	< 20	0.3	< 50	< 100	80	< 50	20	0.019	80	0.106	< 1	0.072	14.0	1.1	< 1	0.039	1.06	2.08	0.19
781665	< 0.1	< 50	< 40	290	< 20	0.8	< 50	< 100	160	< 50	20	0.016	130	0.050	< 1	0.173	10.8	0.7	< 1	0.026	0.59	2.27	0.22
781666	< 0.1	< 50	< 40	240	< 20	0.6	< 50	< 100	110	< 50	20	0.016	100	0.024	< 1	0.172	8.4	0.6	< 1	0.019	0.41	1.80	0.17
781667	< 0.1	< 50	< 40	180	20	0.5	< 50	< 100	90	< 50	10	0.024	100	0.004	< 1	0.103	11.0	0.7	< 1	0.018	0.39	2.14	0.12

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
781668	< 0.1	< 50	< 40	240	< 20	0.6	< 50	< 100	90	< 50	10	0.009	110	0.008	< 1	0.046	4.0	0.2	< 1	0.018	0.25	1.49	0.10
781669	< 0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	100	< 50	10	0.008	110	0.007	< 1	0.091	4.7	0.2	< 1	0.020	0.23	1.78	0.08
781670	< 0.1	< 50	< 40	280	40	0.5	< 50	< 100	130	< 50	10	0.006	70	0.042	< 1	0.141	4.9	0.3	< 1	0.022	0.33	2.17	0.05
781671	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	70	< 50	10	0.016	< 50	0.013	< 1	0.080	8.8	0.5	< 1	0.024	0.52	2.22	0.08
781672	< 0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	70	< 50	10	0.009	90	0.014	< 1	0.046	7.3	0.3	< 1	0.017	0.33	2.35	0.07
781673	< 0.1	< 50	< 40	230	< 20	0.6	< 50	< 100	90	< 50	20	0.015	120	0.015	< 1	0.058	10.4	0.4	< 1	0.018	0.42	2.61	0.09
781674	< 0.1	< 50	< 40	190	< 20	0.4	< 50	< 100	80	< 50	20	0.025	60	0.008	< 1	0.166	8.6	0.8	< 1	0.018	0.37	1.84	0.19
781675	< 0.1	< 50	< 40	150	< 20	0.6	< 50	< 100	90	< 50	10	0.007	110	0.004	< 1	0.086	1.7	0.3	< 1	0.018	0.10	1.32	0.12
781676	< 0.1	< 50	< 40	150	< 20	0.5	< 50	< 100	80	< 50	10	0.005	110	0.006	< 1	0.096	2.2	0.2	< 1	0.017	0.12	1.36	0.11
781677	< 0.1	< 50	< 40	210	< 20	0.7	< 50	< 100	110	< 50	20	0.010	140	0.012	< 1	0.081	5.5	0.4	< 1	0.018	0.25	2.38	0.10
781678	< 0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	100	< 50	10	0.011	80	0.013	< 1	0.130	7.7	0.3	< 1	0.015	0.37	2.29	0.10
781679	< 0.1	< 50	< 40	130	20	0.6	< 50	< 100	80	< 50	30	0.023	80	0.006	< 1	0.128	4.9	0.8	< 1	0.018	0.36	1.16	0.28
781680	< 0.1	< 50	< 40	140	< 20	0.6	< 50	< 100	100	< 50	40	0.020	100	0.007	< 1	0.129	5.6	1.0	< 1	0.017	0.34	1.17	0.26
781681	< 0.1	< 50	< 40	170	< 20	0.6	< 50	< 100	110	< 50	30	0.016	80	0.007	< 1	0.107	5.7	0.6	< 1	0.019	0.31	1.24	0.23
781682	< 0.1	< 50	< 40	230	70	0.4	< 50	< 100	90	< 50	30	0.027	< 50	0.011	< 1	0.176	6.1	1.1	< 1	0.018	0.41	1.52	0.18
781683	< 0.1	< 50	< 40	190	< 20	0.5	< 50	< 100	90	< 50	10	0.009	90	0.006	< 1	0.079	4.6	0.4	< 1	0.018	0.21	1.70	0.14
781684	< 0.1	< 50	< 40	240	< 20	0.6	< 50	< 100	90	< 50	10	0.013	80	0.009	< 1	0.099	7.1	0.3	< 1	0.017	0.36	1.99	0.12
781685	< 0.1	< 50	< 40	110	30	0.6	< 50	< 100	100	< 50	10	0.023	110	0.004	< 1	0.143	4.5	0.4	< 1	0.016	0.20	1.53	0.20
781686	0.1	< 50	< 40	160	< 20	0.4	< 50	< 100	90	< 50	10	0.027	80	0.004	< 1	0.158	3.9	0.4	< 1	0.016	0.23	1.12	0.17
781687	< 0.1	< 50	< 40	160	< 20	0.6	< 50	< 100	90	< 50	10	0.006	100	0.002	< 1	0.082	3.0	0.3	< 1	0.018	0.14	1.66	0.13
781688	< 0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	90	< 50	10	0.011	100	0.021	< 1	0.064	6.2	0.3	< 1	0.021	0.34	2.18	0.10
781689	< 0.1	< 50	< 40	220	40	0.3	< 50	< 100	80	< 50	10	0.009	70	0.014	< 1	0.068	4.1	0.2	< 1	0.017	0.31	2.13	0.09
745920	< 0.1	< 50	< 40	230	< 20	0.2	< 50	< 100	60	< 50	20	0.004	< 50	0.141	< 1	0.051	8.6	0.3	9	0.122	0.58	1.33	0.10
745921	0.4	< 50	< 40	200	< 20	0.3	< 50	< 100	50	< 50	20	0.005	60	0.086	< 1	0.048	2.3	0.3	2	0.091	0.55	0.99	0.14

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS																					
981100	2.48	0.69	2.2	71	13	1380	3.63	8.4	9.4	26.8	133	8.14	< 0.1	5.1	14.5	120	8.80	1.0	1.7	1.82	0.296	0.06	1.02
981101	0.58	0.63	3.1	72	17	811	3.21	7.1	14.0	26.2	112	8.10	< 0.1	6.6	8.4	82.9	8.46	1.2	1.1	1.04	0.148	0.05	0.85
981102	0.76	0.26	2.1	72	13	1420	3.80	7.8	7.4	18.9	114	9.13	< 0.1	5.8	16.0	52.1	5.68	0.5	0.7	7.29	0.248	0.05	0.99
981103	0.19	0.07	0.6	55	10	766	3.05	5.0	4.6	6.35	70.8	8.67	< 0.1	8.1	19.2	15.5	3.87	0.7	0.5	0.80	0.113	0.03	1.17
981104	0.19	0.18	0.7	56	12	2360	3.08	12.5	9.3	10.4	108	6.68	< 0.1	8.4	15.5	19.6	6.35	0.5	0.3	0.65	0.103	0.04	0.56
981105	0.21	0.68	1.4	60	8	1070	2.33	7.8	6.1	24.0	86.3	9.60	< 0.1	9.2	12.5	71.5	7.42	0.7	0.9	0.53	0.165	0.03	0.49
981106	0.15	0.20	0.5	67	12	1480	2.84	7.0	7.5	16.9	80.4	7.45	< 0.1	4.0	15.7	24.6	4.97	0.3	0.5	0.69	0.150	0.02	0.61
981107	0.04	0.66	4.7	65	10	588	2.65	6.6	7.4	5.94	62.9	5.42	< 0.1	6.6	15.7	41.7	14.0	1.8	1.0	1.01	0.083	0.03	0.49
981108	0.25	0.27	1.0	72	12	2460	3.32	8.0	7.9	20.2	243	9.64	< 0.1	5.9	23.0	47.1	5.52	0.4	1.4	2.09	0.768	0.04	1.04
981109	0.28	1.63	8.2	119	11	1820	4.21	12.1	8.6	47.7	185	14.5	< 0.1	6.1	12.1	130	9.66	4.1	1.2	0.86	0.351	0.05	1.14
981110	0.18	0.38	2.8	75	12	1070	3.30	7.7	8.2	20.3	172	10.1	< 0.1	6.6	15.8	29.9	9.80	1.1	1.7	0.60	0.159	0.04	1.04
981111	0.16	0.53	4.7	88	20	1030	3.67	10.2	14.0	12.3	111	9.69	< 0.1	6.2	18.8	57.8	7.38	0.7	1.2	0.70	0.282	0.04	0.95
981112	0.17	0.86	4.4	80	19	1960	3.57	12.4	14.4	14.0	180	8.91	< 0.1	9.7	14.9	112	9.33	1.0	1.3	0.73	0.423	0.03	0.75
981113	0.30	0.48	2.8	76	14	735	3.61	7.6	9.0	10.7	290	9.45	< 0.1	5.2	10.9	74.5	5.27	0.7	1.4	1.04	0.146	0.03	0.85
981114	0.56	0.25	0.8	46	9	177	1.79	2.5	3.2	7.46	80.1	6.64	< 0.1	1.9	5.3	45.8	2.60	0.4	1.1	1.36	0.083	0.02	0.80
981115	1.58	1.37	3.1	49	15	1020	3.93	3.8	8.6	23.2	147	6.17	< 0.1	10.3	11.1	99.2	11.0	1.8	1.2	2.56	0.502	0.04	0.47
981116	1.17	0.75	1.2	50	9	514	2.77	4.3	4.2	17.7	192	6.11	< 0.1	17.1	12.0	85.3	3.92	0.3	1.3	2.08	0.450	0.03	0.51
981117	0.52	0.41	2.8	55	11	765	3.05	7.3	6.3	20.6	398	5.99	< 0.1	5.5	9.4	52.8	5.44	0.2	0.7	3.22	0.414	0.03	0.40
981118	2.16	0.45	2.6	57	10	873	2.87	3.4	4.5	37.4	468	7.69	< 0.1	3.0	15.1	65.7	3.89	1.1	1.4	2.76	0.783	0.04	0.59
981119	0.23	0.18	3.3	75	26	278	3.52	5.3	13.7	16.4	150	7.61	< 0.1	4.7	10.6	21.0	2.97	0.6	1.5	1.05	0.215	0.03	0.64
981120	0.27	0.18	3.7	70	22	385	3.37	6.4	11.4	16.1	267	9.46	< 0.1	5.1	9.2	22.7	3.11	1.2	2.5	2.03	0.340	0.03	0.89
981121	0.37	0.41	2.4	63	9	516	2.56	3.7	2.6	10.4	133	9.42	< 0.1	3.5	17.2	50.1	3.36	0.9	2.9	3.68	0.229	0.02	1.01
981122	0.26	0.41	2.9	93	17	321	2.98	9.1	5.7	26.2	714	9.98	< 0.1	2.8	8.0	40.0	6.32	0.7	3.2	2.49	0.434	0.02	1.13
981123	0.23	0.20	2.7	98	19	314	3.83	5.0	4.9	12.5	183	11.7	< 0.1	3.9	7.2	27.8	3.45	0.7	3.9	1.03	0.492	0.02	1.48
981124	0.64	0.20	2.5	62	18	243	2.78	3.6	6.4	710	950	15.4	< 0.1	3.3	8.0	25.4	8.97	6.9	18.4	8.10	1.93	0.08	3.10
981125	0.31	0.19	2.5	92	14	513	3.94	5.1	4.4	12.2	126	11.4	< 0.1	4.3	8.5	21.6	2.90	0.4	3.9	1.34	0.786	0.03	1.63
981126	0.38	0.17	3.9	101	20	693	4.70	9.6	6.7	13.5	507	14.2	< 0.1	5.7	12.0	22.2	4.12	0.7	4.6	1.35	0.625	0.04	2.13
981127	0.17	0.27	1.9	67	13	313	2.41	4.0	4.5	8.23	169	6.42	< 0.1	2.4	5.2	22.7	3.26	0.3	1.0	0.57	0.214	< 0.02	0.62
981128	0.20	0.20	2.3	101	18	309	3.94	4.8	4.4	9.00	81.7	9.66	< 0.1	4.3	7.7	24.2	3.33	0.4	2.0	1.33	0.313	0.02	3.40
981129	0.27	1.77	3.4	48	2	1900	2.40	9.0	2.2	172	711	6.68	< 0.1	17.6	10.3	101	19.2	1.3	0.3	5.87	0.902	0.05	0.33
981130	0.05	1.99	2.8	39	2	779	2.09	5.6	2.1	24.8	48.9	6.93	< 0.1	11.4	6.6	109	14.2	1.1	0.2	2.06	0.896	0.06	0.29
981131	1.53	0.17	4.8	44	4	1540	4.44	8.5	2.6	49.6	165	4.60	0.1	6.8	15.1	36.7	8.06	0.9	0.3	3.15	0.450	0.10	0.36
981132	3.52	0.16	4.9	81	7	752	8.97	2.5	4.5	120	150	7.93	0.1	11.0	17.0	72.8	8.19	1.0	0.5	5.41	1.89	0.13	0.50
981133	4.06	0.18	2.9	74	7	1040	7.10	3.3	3.8	275	319	8.42	0.1	8.6	16.6	62.8	11.0	0.7	0.3	6.56	2.36	0.26	0.48
981134	1.35	0.13	0.5	62	9	722	3.97	2.3	4.3	51.8	92.0	8.39	< 0.1	3.8	10.9	31.7	2.69	0.2	0.3	2.36	1.60	0.08	0.54
981135	2.32	0.12	1.4	70	5	881	6.06	2.0	2.9	59.7	137	9.32	< 0.1	4.8	20.6	97.3	3.33	0.2	0.3	3.18	0.811	0.26	0.74
981136	1.09	0.11	1.4	52	6	463	4.91	2.7	3.6	42.3	190	5.76	< 0.1	5.5	15.1	55.9	3.72	0.9	1.3	3.55	0.758	0.07	0.58
981137	1.31	0.19	1.5	72	9	561	4.77	2.9	4.3	55.1	126	6.59	< 0.1	7.5	10.1	84.7	5.97	0.3	0.9	3.40	0.469	0.08	0.72
981138	0.55	0.76	1.4	34	5	1770	3.78	11.7	3.3	98.3	361	4.67	< 0.1	8.3	16.1	65.5	14.4	1.0	0.3	2.90	0.755	0.05	0.31
981139	0.93	0.94	5.1	58	2	3150	4.58	22.2	3.1	440	1820	4.44	< 0.1	12.2	14.3	126	18.3	0.7	< 0.1	2.87	1.56	0.07	0.92
981140	1.01	0.63	3.1	64	4	4550	5.26	37.6	3.6	111	310	6.10	< 0.1	7.6	20.6	111	14.7	0.3	0.1	12.2	0.665	0.05	0.45
981141	0.28	0.45	2.1	74	9	1730	4.45	12.6	6.4	42.7	352	5.64	< 0.1	6.3	10.7	69.8	10.6	0.6	0.4	2.23	0.317	0.03	0.66

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS										
981142	1.31	0.70	3.5	92	9	2560	4.57	15.8	7.0	316	515	5.33	< 0.1	4.5	14.4	101	12.5	0.4	0.2	3.19	0.874	0.07	0.51
981143	0.42	0.38	< 0.1	58	4	4720	3.74	19.7	4.5	65.5	251	3.99	< 0.1	2.0	10.9	46.4	4.43	1.2	0.8	1.78	0.471	0.03	0.52
981144	0.36	0.24	0.2	65	7	2480	4.21	12.0	3.8	31.5	263	5.57	< 0.1	2.1	23.0	31.7	5.18	0.2	0.1	1.16	0.129	0.04	0.58
981145	0.52	0.34	0.2	71	22	1680	3.94	13.0	22.9	41.6	232	5.95	< 0.1	6.0	14.9	35.2	7.40	0.6	< 0.1	2.84	0.239	0.04	0.31
981146	1.79	0.07	0.9	22	2	331	4.48	1.2	0.8	15.7	91.0	4.80	< 0.1	3.8	13.2	52.3	3.24	0.1	< 0.1	13.6	0.307	0.07	0.18
981147	0.15	0.71	2.2	55	5	4480	3.25	14.9	4.8	29.1	210	6.52	< 0.1	2.8	11.4	56.9	23.0	1.6	0.3	6.88	0.207	0.03	0.36
981148	0.40	0.46	1.6	56	7	1350	3.20	7.3	4.5	20.6	209	7.24	< 0.1	4.2	7.9	83.0	6.18	0.7	0.7	4.17	0.126	0.04	0.55
981149	0.64	0.18	0.7	59	9	535	3.92	4.0	4.9	25.3	121	10.9	< 0.1	5.7	16.4	68.2	4.55	0.4	2.9	5.36	0.782	0.06	1.79
981150	0.31	0.17	0.2	55	17	696	4.97	9.3	8.5	21.0	144	6.37	< 0.1	6.2	11.1	24.3	5.57	0.3	0.5	8.21	0.460	0.04	0.70
981151	0.40	0.29	2.0	64	6	568	4.08	5.5	3.2	38.2	171	9.53	< 0.1	3.8	9.6	61.4	5.24	0.4	1.5	5.00	0.393	0.06	0.82
981152	0.86	0.23	1.5	56	9	279	3.44	1.8	2.8	19.2	58.3	7.51	< 0.1	6.3	13.6	71.0	2.99	0.1	0.8	4.99	0.815	0.07	0.56
981153	0.85	0.22	< 0.1	50	7	424	4.99	2.5	3.9	34.0	81.1	5.97	< 0.1	18.0	10.8	77.2	3.42	0.7	1.4	5.38	4.36	0.04	0.53
981154	0.65	0.32	1.9	47	7	446	3.52	3.0	3.6	35.2	118	5.69	< 0.1	11.4	14.4	72.2	3.36	1.0	1.8	4.44	2.98	0.05	0.46
981155	0.74	0.35	0.7	49	12	453	3.78	4.8	5.9	32.5	209	8.37	< 0.1	6.3	18.9	63.8	3.30	0.5	3.5	5.17	1.37	0.05	1.21
981156	0.39	0.62	< 0.1	32	8	796	1.58	3.7	4.0	25.0	152	4.20	< 0.1	1.8	16.0	79.1	2.41	0.3	0.4	3.17	0.731	0.03	0.50
981157	0.79	0.58	1.3	43	3	503	2.09	3.2	1.8	21.7	123	5.80	< 0.1	3.8	13.5	89.1	4.01	0.3	0.6	3.88	0.272	0.03	0.39
981158	1.29	0.50	2.8	84	19	723	6.06	8.8	10.3	88.1	548	13.2	< 0.1	12.6	11.3	75.4	4.69	1.6	4.3	17.0	0.573	0.06	1.70
981159	0.43	0.39	1.6	43	6	405	2.42	4.0	3.6	28.6	288	7.04	< 0.1	3.3	14.8	66.0	2.88	0.8	2.5	3.45	0.812	0.03	0.81
981160	0.82	0.79	2.2	50	7	822	2.80	8.2	4.9	290	532	7.24	0.1	4.7	12.5	122	17.6	0.6	1.7	8.67	1.16	0.05	0.74
981161	0.69	0.26	2.3	52	8	503	3.67	4.5	4.1	40.8	529	13.3	< 0.1	6.0	23.1	43.7	3.59	3.3	4.7	6.10	1.12	0.07	2.44
981162	0.41	0.20	1.9	38	9	453	2.63	5.2	5.4	36.4	579	8.86	< 0.1	4.5	11.0	34.8	4.71	2.7	3.8	3.74	3.87	0.04	1.27
981163	0.90	0.36	2.2	54	9	760	3.30	7.3	5.7	57.8	630	8.01	< 0.1	6.7	17.8	61.5	3.90	1.5	1.1	8.85	0.917	0.08	0.61
981164	1.23	0.65	9.1	56	23	3570	4.17	24.5	26.7	4180	> 5000	10.1	0.4	6.2	39.4	56.4	138	5.0	1.6	5.78	2.51	0.11	0.90
981165	0.83	0.36	3.1	60	14	634	3.91	13.0	9.0	79.5	954	9.56	< 0.1	5.1	13.8	57.5	5.00	1.3	3.9	7.30	1.06	0.05	1.26
981166	0.61	0.53	3.9	56	18	961	2.99	15.0	16.4	367	2020	10.5	< 0.1	4.9	12.8	97.6	8.79	0.8	4.5	10.9	0.676	0.06	1.20
981167	0.66	0.52	4.1	73	8	805	3.45	7.2	5.5	19.8	559	10.5	< 0.1	4.9	11.7	98.4	4.66	3.7	0.7	7.37	0.249	0.04	0.64
981168	0.22	0.40	4.3	98	11	539	4.56	7.4	8.0	30.3	599	14.8	< 0.1	10.6	6.5	31.4	5.29	8.0	4.8	4.92	1.37	0.04	1.28
981169	0.07	0.12	1.4	32	< 1	364	2.02	3.8	0.8	3.03	189	6.03	< 0.1	0.3	34.9	8.1	2.35	2.0	0.2	1.02	0.347	< 0.02	0.38
981170	0.58	0.31	3.3	74	12	575	4.15	6.4	6.2	16.7	292	10.0	< 0.1	4.9	10.9	51.8	3.91	3.4	2.2	2.37	0.282	0.05	1.10
981171	0.76	0.43	6.0	57	16	719	3.68	11.1	12.6	304	1550	12.1	< 0.1	3.6	13.6	64.6	12.5	9.7	7.6	12.2	2.41	0.08	2.68
981172	0.42	0.33	3.2	70	14	511	3.76	5.2	8.0	12.3	161	8.54	< 0.1	5.0	10.9	46.4	3.50	2.1	1.9	2.19	0.203	0.04	0.76
981173	0.23	0.24	2.2	56	11	255	2.16	2.9	3.7	5.00	95.4	8.61	< 0.1	1.7	6.4	32.7	3.03	1.0	2.2	1.13	0.170	< 0.02	1.18
981174	0.80	0.39	3.6	81	8	425	3.49	4.0	3.5	8.21	256	13.5	< 0.1	5.2	11.4	86.7	4.14	1.9	3.0	8.66	0.493	0.09	1.58
981175	2.59	0.66	3.3	55	7	1240	2.89	25.4	4.2	616	1040	10.7	< 0.1	1.5	11.0	126	11.1	2.1	3.4	14.8	1.28	0.08	1.07
981176	1.13	0.29	4.8	71	7	1950	5.60	11.6	6.4	68.5	442	7.87	< 0.1	21.3	23.8	44.3	11.1	0.9	0.6	12.5	2.88	0.19	0.64
981177	0.13	0.68	0.2	81	7	2440	3.88	7.1	6.1	11.7	176	8.23	< 0.1	6.7	15.4	95.9	10.4	0.2	0.1	0.85	0.285	0.05	0.67
981178	0.26	0.65	1.8	93	7	5170	4.33	11.1	4.5	10.6	489	12.2	< 0.1	3.0	13.8	109	8.17	0.7	0.3	0.78	0.068	0.05	1.01
981179	0.13	0.55	1.4	83	11	919	4.42	6.5	8.0	31.9	167	10.1	< 0.1	5.6	10.6	87.6	6.05	0.3	0.2	0.62	0.091	0.04	0.57
981180	1.37	0.10	< 0.1	49	6	621	3.30	3.2	3.2	12.5	63.4	8.22	< 0.1	7.7	16.6	76.5	3.36	0.5	0.5	2.04	0.094	0.13	1.08
981181	0.83	0.10	< 0.1	52	7	399	2.81	2.2	2.6	11.8	47.2	9.91	< 0.1	3.9	10.8	46.9	2.67	0.2	0.8	1.94	0.182	0.08	1.63
981182	0.65	0.10	1.3	41	7	723	3.13	3.4	5.0	26.4	89.0	5.94	< 0.1	5.3	14.3	64.1	3.34	0.2	0.2	2.68	0.226	0.20	1.13
981183	0.56	0.11	1.6	39	5	510	3.74	2.1	2.9	59.5	92.2	5.82	< 0.1	5.8	11.7	60.1	2.79	1.2	1.3	3.38	0.355	0.19	1.13

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm													
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS																				
981184	0.91	0.23	3.4	68	5	860	4.70	4.5	3.6	94.9	196	6.85	< 0.1	4.8	13.5	62.7	5.17	0.2	0.3	6.49	0.301	0.23	0.65
981185	0.58	0.13	1.2	63	8	414	3.79	3.5	4.8	22.1	116	8.61	< 0.1	5.7	12.8	41.5	3.38	0.5	0.6	2.34	0.208	0.11	0.91
981186	1.04	0.09	0.1	48	7	427	3.07	3.1	3.4	17.9	110	8.63	< 0.1	4.6	13.5	71.5	3.15	0.2	0.7	3.08	0.109	0.17	1.36
981187	1.11	0.10	0.7	49	7	358	2.71	2.9	4.2	17.8	101	9.81	< 0.1	3.7	16.9	66.8	3.52	0.1	1.5	3.05	0.182	0.14	2.15
981188	1.79	0.55	6.7	45	12	1250	3.90	7.1	8.5	117	593	8.49	0.2	8.6	24.0	120	44.7	2.7	0.3	4.11	0.501	0.28	1.39
981189	1.21	0.09	7.1	52	1	878	6.98	2.6	1.3	47.7	148	7.58	0.1	6.8	19.8	114	9.77	5.7	0.1	6.42	1.09	0.05	0.50
981190	1.26	0.34	7.0	86	4	5250	9.80	53.9	4.3	658	823	9.04	0.1	9.4	16.7	115	17.0	2.7	0.3	6.15	0.882	0.09	0.49
981191	1.48	0.61	6.5	61	6	5510	6.20	61.4	4.9	528	878	7.78	< 0.1	14.7	15.5	136	17.5	4.7	0.3	5.32	1.27	0.08	0.59
981192	0.34	0.11	5.7	74	6	1730	5.70	15.5	4.5	101	364	7.03	0.1	5.9	13.5	40.5	14.1	3.5	0.4	8.96	0.251	0.03	0.60
981193	0.09	2.61	6.8	40	2	1730	2.37	13.9	4.5	66.7	215	9.50	< 0.1	3.0	4.4	137	12.3	2.5	< 0.1	0.23	0.262	< 0.02	0.34
981194	0.17	0.54	4.0	84	22	1140	3.87	13.9	24.4	54.2	197	8.57	< 0.1	4.2	10.4	64.7	8.60	0.8	0.9	1.29	0.113	0.04	0.69
981195	0.15	0.38	4.3	61	26	693	3.27	8.8	25.8	24.6	101	9.17	< 0.1	4.0	10.6	62.3	9.81	1.2	1.3	1.11	0.058	0.04	0.86
981196	0.27	0.38	5.3	65	26	1320	3.51	11.0	25.4	246	360	9.03	< 0.1	4.2	15.6	65.8	13.4	0.6	0.5	2.61	0.191	0.04	1.49
981197	0.36	0.30	2.9	45	6	2480	3.40	10.2	5.0	44.5	185	9.44	< 0.1	6.0	35.4	24.1	16.3	0.3	0.3	2.72	0.043	0.04	0.72
981198	0.43	0.85	8.1	67	8	1940	3.76	11.4	8.9	70.9	292	10.5	< 0.1	5.9	11.3	69.7	17.2	0.8	0.2	11.7	0.202	0.05	0.69
981199	0.74	0.16	7.5	53	3	8480	7.90	61.2	4.3	135	1180	6.16	0.2	10.1	16.7	35.1	28.9	0.5	< 0.1	10.6	0.488	0.06	0.34
745918	0.05	1.18	7.4	70	34	441	2.66	9.1	22.2	22.0	46.2	5.96	< 0.1	3.6	5.1	60.5	9.23	5.7	< 0.1	2.25	0.165	0.03	0.62
745919	0.11	3.02	12.5	112	40	1110	6.05	23.5	29.5	149	91.1	10.4	0.1	11.2	7.9	225	17.6	3.5	0.4	2.95	0.074	0.04	0.90
981201	0.49	0.69	15.9	147	3	5350	7.74	26.1	5.5	63.6	623	10.5	0.2	8.1	11.8	63.1	36.1	0.4	< 0.1	3.51	0.363	0.07	0.53
981202	0.23	0.26	19.8	137	2	5070	9.09	59.8	7.0	85.4	424	11.9	0.2	14.4	36.5	44.7	29.3	4.8	< 0.1	6.79	0.343	0.05	0.64
981203	1.49	0.01	3.2	31	1	362	6.53	1.3	0.6	38.2	111	5.61	0.1	7.0	32.2	42.8	5.73	3.2	< 0.1	5.26	2.21	0.05	0.28
981204	0.33	0.49	2.6	71	7	1970	4.24	6.7	5.6	25.3	444	6.64	< 0.1	5.2	25.2	53.6	7.75	0.5	0.1	2.84	0.688	0.04	0.36
981205	0.30	0.25	< 0.1	66	7	2500	2.58	6.3	4.1	20.3	181	7.19	< 0.1	2.9	26.1	36.3	3.84	0.2	0.1	2.12	0.410	0.03	0.52
981206	0.31	0.27	0.5	83	8	3780	4.36	11.1	4.7	28.2	185	8.96	< 0.1	8.7	16.7	36.8	4.74	0.3	0.3	2.68	0.350	0.05	0.54
981207	0.29	0.26	1.7	84	9	1080	5.06	6.4	6.0	36.8	229	8.04	< 0.1	11.1	10.7	41.5	5.13	0.4	0.4	4.16	0.738	0.06	0.64
981208	0.25	0.23	< 0.1	78	11	2620	3.90	9.3	9.2	24.3	114	8.86	< 0.1	6.6	19.6	34.0	4.31	0.3	0.6	1.84	0.498	0.04	1.01
981209	0.41	0.33	3.0	88	12	757	5.18	5.1	6.6	24.8	169	11.4	< 0.1	5.5	17.7	51.5	4.77	0.5	1.2	3.36	0.423	0.05	1.16
981210	0.42	0.43	1.5	54	6	1190	3.61	6.9	5.5	58.9	455	7.05	< 0.1	5.4	21.8	50.2	20.6	0.4	0.8	4.19	0.541	0.05	0.57
981211	0.43	0.44	0.8	71	9	671	3.46	3.5	3.9	17.3	138	12.2	< 0.1	4.2	15.2	61.8	4.56	0.3	1.3	2.57	0.663	0.05	1.69
981212	0.71	0.55	3.9	94	5	566	3.71	3.1	2.3	17.5	96.3	12.9	< 0.1	8.0	20.5	74.2	4.87	0.3	0.6	4.24	0.397	0.07	1.22
981213	0.69	0.47	3.4	66	9	997	5.11	5.2	4.4	36.2	197	10.4	< 0.1	8.4	14.4	68.7	6.60	3.0	2.7	3.82	0.618	0.12	1.01
981214	0.73	0.52	4.5	118	5	1540	6.22	8.2	3.1	36.9	169	13.6	< 0.1	14.3	14.8	76.9	6.08	0.2	0.3	3.69	0.630	0.14	0.99
981215	0.46	0.30	2.1	84	7	973	4.37	5.7	3.7	17.7	107	13.7	< 0.1	10.4	17.0	47.1	4.78	0.5	2.7	3.34	0.311	0.07	2.01
981216	0.30	0.82	6.8	97	4	2370	5.11	15.6	3.6	42.4	214	10.7	< 0.1	16.8	14.6	120	13.5	1.2	1.1	2.41	0.275	0.06	1.06
981217	0.73	0.49	4.1	80	5	1590	5.13	10.2	4.1	29.5	217	9.16	< 0.1	19.4	20.0	65.7	8.39	0.7	0.6	5.12	0.341	0.06	0.83
981218	0.55	0.88	7.8	95	3	3660	6.64	29.7	3.0	103	1260	12.1	0.1	35.8	12.4	143	16.6	0.5	0.2	3.87	1.35	0.15	0.97
981219	1.08	0.47	4.0	78	4	3130	5.18	13.3	2.9	35.7	215	9.03	< 0.1	11.4	24.0	65.6	9.46	0.7	0.5	16.3	0.719	0.08	0.88
981220	1.71	0.54	8.3	93	5	4360	7.08	25.2	4.6	144	617	10.7	0.1	19.1	29.7	79.7	17.1	1.0	0.4	10.8	1.76	0.31	0.98
981221	0.21	0.23	3.0	41	6	2960	3.18	9.3	5.2	56.3	102	3.75	< 0.1	1.3	17.7	12.6	14.9	0.3	< 0.1	1.56	0.188	0.03	0.40
981222	0.16	0.76	1.5	61	6	1430	3.59	7.0	3.0	22.0	65.2	6.45	< 0.1	1.0	20.8	24.8	12.0	1.4	0.7	0.67	0.124	0.02	0.67
981223	0.11	0.45	4.5	54	3	2360	3.69	10.0	3.3	21.7	100	6.24	< 0.1	1.6	16.1	15.7	22.9	0.4	0.2	0.79	< 0.002	0.03	0.43
981224	0.13	0.43	2.6	67	7	1400	4.10	9.2	4.5	15.6	438	7.60	< 0.1	1.1	23.3	21.4	11.2	1.4	0.3	0.67	0.031	0.03	0.54

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS																					
981225	0.19	0.35	< 0.1	47	7	2010	3.48	9.2	3.8	14.9	104	6.87	< 0.1	3.4	19.9	17.6	5.47	0.6	0.6	1.19	0.100	0.02	0.80
981226	0.23	0.20	< 0.1	57	12	2060	4.22	7.8	5.1	18.4	85.7	7.38	< 0.1	3.0	21.4	14.4	3.43	1.2	0.6	1.78	0.026	0.03	0.82
981227	0.19	0.26	< 0.1	74	41	1670	4.05	10.2	10.2	29.9	117	6.35	< 0.1	3.2	16.7	28.4	3.83	0.3	0.2	1.26	0.128	0.03	0.52
981228	0.33	0.33	< 0.1	77	85	7790	3.72	22.2	12.9	29.6	131	6.33	< 0.1	2.7	23.2	32.9	4.05	0.3	0.4	2.20	0.448	0.03	1.34
981229	0.17	0.19	0.9	116	98	1100	5.70	14.2	22.0	64.7	137	8.28	< 0.1	4.5	15.4	18.3	3.36	0.9	0.3	2.08	0.055	0.04	0.54
981230	0.24	0.21	2.9	110	72	1130	4.20	9.8	12.4	22.0	80.7	9.97	< 0.1	2.8	20.8	24.5	2.88	0.2	0.6	1.50	0.255	0.03	1.33
981231	0.31	0.22	< 0.1	42	21	227	1.30	2.2	3.8	21.4	42.7	10.4	< 0.1	1.2	9.5	34.9	2.68	0.3	1.1	0.80	0.488	0.03	1.47
981232	0.27	0.48	2.2	89	47	899	4.16	9.3	10.4	34.5	100	7.22	< 0.1	4.2	13.6	27.2	4.88	0.5	0.2	1.98	0.076	0.03	0.65
981233	0.27	0.53	2.1	48	46	806	2.32	7.2	10.6	37.8	210	6.23	< 0.1	1.9	12.4	52.7	8.48	1.0	0.4	3.35	0.104	0.02	0.38
981234	0.43	0.18	0.9	61	35	2330	5.44	10.5	14.8	83.5	292	9.97	< 0.1	5.7	26.0	26.3	5.72	5.4	2.8	3.21	2.16	0.06	1.20
981235	0.40	0.41	0.8	66	19	1300	3.65	7.0	5.4	23.2	119	10.6	< 0.1	4.1	23.4	53.5	11.0	0.5	1.7	1.64	0.265	0.03	1.71
981236	0.72	0.30	0.9	78	38	2680	4.29	13.4	8.6	68.1	208	8.27	< 0.1	5.4	22.9	47.1	5.82	0.8	0.6	2.37	0.166	0.03	0.66
981237	0.48	0.54	2.0	120	219	2590	6.27	21.5	49.0	66.5	310	15.5	< 0.1	10.1	6.3	73.4	5.61	1.3	3.3	3.83	0.437	0.06	2.93
981238	0.28	0.21	< 0.1	43	11	1280	2.77	5.4	3.8	13.2	156	7.61	< 0.1	2.5	22.5	33.4	2.77	0.4	0.4	1.64	0.111	0.02	0.64
981239	0.37	0.25	< 0.1	60	21	715	3.66	5.1	5.2	15.1	144	10.8	< 0.1	3.5	23.0	42.5	3.11	0.4	0.9	1.91	0.142	0.02	1.27
981240	0.38	0.19	0.2	54	10	502	2.74	2.6	2.6	14.1	69.7	12.4	< 0.1	2.8	14.7	27.6	3.53	0.4	1.6	1.71	0.344	0.03	2.39
981241	0.37	0.21	1.7	58	11	393	2.99	3.5	3.0	11.4	100	11.2	< 0.1	2.6	15.9	32.4	2.92	0.2	1.3	1.60	0.226	0.03	1.34
981242	0.23	0.21	0.4	51	12	389	2.51	3.2	2.5	8.63	78.1	8.77	< 0.1	1.7	14.3	26.3	2.21	0.3	1.0	1.40	0.118	< 0.02	1.15
981243	0.36	0.62	3.4	43	35	1290	3.00	7.2	6.7	175	404	4.75	0.3	5.6	20.6	57.3	175	1.6	0.6	3.62	0.971	0.03	0.51
981244	0.38	1.18	2.1	41	18	3100	3.01	7.0	6.5	120	451	4.63	0.2	6.5	15.1	77.4	120	5.1	2.2	9.78	1.15	0.04	1.17
981245	0.31	0.17	1.2	55	4	669	2.61	3.9	2.1	10.8	88.8	9.57	< 0.1	3.5	18.6	24.4	2.96	0.3	0.5	1.80	0.272	0.03	0.82
981246	0.42	0.73	1.0	32	5	2010	2.99	7.7	5.0	64.9	538	3.23	< 0.1	8.4	15.4	65.2	27.1	2.9	0.8	3.66	0.665	0.05	0.53
981247	0.56	0.98	3.9	32	6	2330	2.60	6.9	4.8	170	1630	6.59	0.1	3.7	32.0	71.6	83.0	4.9	0.8	4.73	0.936	0.04	0.54
981248	0.22	0.13	0.5	53	2	647	2.60	3.1	1.4	7.55	46.4	8.80	< 0.1	2.8	14.1	20.6	2.44	0.2	0.2	0.83	0.429	0.02	0.57
981249	0.26	0.20	0.9	46	3	793	3.34	5.3	2.8	14.7	112	5.93	< 0.1	4.4	18.3	25.8	4.08	1.1	0.4	1.24	0.264	0.03	0.43
781651	0.23	0.37	3.0	38	2	3020	3.71	10.2	2.9	43.1	156	2.00	< 0.1	3.4	16.5	17.4	26.9	0.4	< 0.1	0.95	0.194	0.03	0.24
781652	1.50	0.34	4.1	39	5	3270	4.28	15.0	5.0	350	748	5.07	0.1	6.7	18.2	33.5	27.8	0.3	< 0.1	6.07	1.02	0.04	0.42
781653	0.29	0.55	3.5	67	4	2110	4.31	11.4	3.4	24.5	147	4.36	< 0.1	6.4	18.4	23.1	23.7	0.7	< 0.1	0.78	0.421	0.03	0.45
781654	0.27	0.70	1.2	36	8	1390	2.07	4.9	5.9	46.5	306	4.55	< 0.1	1.2	20.7	73.7	14.5	0.8	1.0	3.56	0.350	0.03	0.75
781655	0.36	0.22	0.2	46	5	390	1.91	2.6	2.0	9.38	60.6	9.89	< 0.1	0.8	12.8	39.3	2.35	< 0.1	0.8	2.11	0.079	< 0.02	1.12
781656	0.43	0.14	0.3	61	8	734	4.57	4.1	3.6	12.1	104	14.9	< 0.1	3.1	18.2	29.8	3.92	0.4	2.7	1.83	0.223	0.04	2.24
781657	0.28	0.31	0.9	35	7	1130	2.68	7.6	5.9	24.4	154	5.42	< 0.1	2.8	12.1	43.6	5.07	0.8	0.2	1.24	0.258	0.03	0.34
781658	0.22	0.17	< 0.1	34	4	170	1.41	1.6	1.4	7.05	30.6	8.02	< 0.1	0.5	6.5	31.2	1.85	0.3	0.5	0.56	0.413	< 0.02	0.53
781659	0.38	0.65	0.8	34	4	1910	2.65	8.1	4.3	30.7	266	8.22	< 0.1	1.3	14.6	110	8.99	0.8	0.2	1.08	0.107	0.03	0.52
781660	0.51	0.65	0.1	22	2	1130	1.81	3.9	3.2	18.1	143	5.65	< 0.1	0.5	16.3	101	4.17	0.7	0.4	1.21	0.049	0.02	0.31
781661	0.56	0.63	0.9	37	5	2550	2.76	9.0	5.1	58.6	186	6.51	< 0.1	3.3	20.4	106	11.1	0.8	0.3	2.90	0.066	0.03	0.70
781662	1.06	0.30	0.6	40	12	1820	2.81	9.5	12.2	53.2	108	7.53	< 0.1	4.1	11.4	64.7	5.00	1.6	0.4	11.4	0.009	0.04	0.58
781663	0.45	0.42	< 0.1	38	9	1460	2.53	6.1	8.1	28.8	123	6.16	< 0.1	3.4	13.7	73.8	3.90	1.2	0.3	2.11	0.007	0.03	0.41
781664	0.31	0.63	3.4	76	35	1340	3.72	14.9	46.6	35.1	210	4.76	< 0.1	2.1	19.1	81.5	7.64	2.3	0.5	2.52	0.033	0.04	0.66
781665	0.38	0.44	3.0	81	23	4660	4.13	16.7	15.1	35.4	165	6.78	< 0.1	2.5	27.0	73.8	6.92	0.6	0.2	2.93	0.132	0.04	0.79
781666	0.33	0.24	0.5	50	8	3560	3.43	9.4	6.7	25.6	150	5.62	< 0.1	6.5	17.3	33.4	6.78	0.7	0.2	1.43	0.119	0.03	0.68
781667	0.74	0.21	0.5	30	7	1580	2.90	7.2	6.7	61.2	243	5.61	< 0.1	5.7	14.1	32.7	6.50	4.3	0.8	2.47	0.490	0.03	0.48

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS																					
781668	0.37	0.25	< 0.1	34	4	385	1.59	2.8	2.9	15.1	80.2	6.24	< 0.1	0.7	18.9	43.7	3.20	0.3	0.5	1.54	0.230	0.02	0.98
781669	0.49	0.18	< 0.1	45	6	545	2.21	3.8	3.6	24.0	69.2	7.74	< 0.1	2.5	14.3	33.2	3.13	0.6	0.8	2.54	0.319	0.04	1.11
781670	1.60	0.32	< 0.1	75	9	592	3.11	5.9	6.1	39.7	49.9	12.4	< 0.1	4.1	6.5	50.5	3.02	0.4	2.4	2.21	0.894	0.04	0.79
781671	0.64	0.35	< 0.1	45	5	706	2.53	5.0	5.3	52.5	163	7.68	< 0.1	2.7	14.3	54.9	5.21	0.2	0.4	8.25	0.754	0.03	0.45
781672	0.64	0.25	0.2	29	6	414	1.72	3.1	4.1	38.1	88.8	9.09	< 0.1	1.4	10.0	44.5	3.77	2.2	1.8	3.52	1.78	0.04	0.92
781673	0.56	0.26	0.7	35	9	570	2.32	4.5	6.1	34.0	150	9.04	< 0.1	1.8	14.6	45.5	4.61	2.6	1.2	3.42	0.906	0.04	0.88
781674	0.74	0.20	0.3	34	5	3430	3.47	10.8	5.1	103	236	5.50	< 0.1	7.7	20.1	31.7	9.80	1.5	0.3	3.15	0.323	0.05	0.87
781675	0.44	0.11	< 0.1	28	4	491	1.53	2.7	2.1	15.5	59.9	5.16	< 0.1	1.3	16.8	22.7	2.74	0.3	1.1	1.51	0.244	0.02	1.00
781676	0.38	0.09	< 0.1	27	4	830	1.66	2.9	2.2	10.5	40.4	5.75	< 0.1	2.2	16.5	17.6	2.38	0.2	1.5	1.61	0.235	0.02	1.21
781677	0.51	0.21	< 0.1	42	6	617	2.66	3.9	3.5	19.1	91.1	7.98	< 0.1	3.0	15.9	37.0	4.42	1.1	0.9	2.71	0.205	0.03	1.04
781678	0.37	0.20	0.3	43	4	706	3.50	4.8	2.8	15.6	114	7.18	< 0.1	3.6	19.2	37.8	4.11	1.6	1.0	1.89	0.526	0.03	0.55
781679	0.32	0.36	1.3	27	1	2370	2.82	7.8	2.8	56.5	242	1.94	< 0.1	8.2	17.4	18.6	19.8	0.8	< 0.1	1.19	0.385	0.02	0.25
781680	0.29	0.40	2.3	27	< 1	3400	3.34	9.8	2.5	27.6	196	1.54	< 0.1	4.0	16.4	26.1	24.2	0.4	< 0.1	1.12	0.375	0.02	0.27
781681	0.20	0.33	2.0	47	2	2190	3.27	7.8	2.2	89.2	143	3.16	< 0.1	6.6	13.6	27.6	16.4	0.3	< 0.1	2.27	0.193	0.03	0.34
781682	0.37	0.33	0.6	40	3	3270	3.23	9.4	3.8	65.4	271	3.25	< 0.1	7.6	12.0	35.1	19.7	0.3	< 0.1	1.85	0.254	0.04	0.40
781683	0.33	0.14	< 0.1	36	4	612	2.18	3.2	2.5	10.1	84.4	5.91	< 0.1	2.1	29.1	28.9	3.30	0.4	0.4	1.00	0.167	0.02	0.68
781684	0.29	0.16	< 0.1	39	4	784	2.70	5.0	3.0	16.2	128	5.40	< 0.1	3.1	15.1	28.8	4.50	1.0	0.2	0.90	0.121	0.02	0.35
781685	2.74	0.09	< 0.1	34	7	1340	3.21	5.7	5.3	49.8	228	4.97	< 0.1	4.1	18.9	17.0	3.98	0.9	0.2	4.85	0.572	0.05	0.38
781686	0.72	0.20	< 0.1	30	4	4090	2.70	11.4	3.3	36.6	265	3.73	< 0.1	3.2	16.2	30.7	4.01	0.5	0.2	2.32	0.205	< 0.02	0.37
781687	0.28	0.10	< 0.1	29	3	505	1.57	2.4	1.6	10.5	49.8	5.99	< 0.1	0.7	19.0	16.0	2.22	1.0	0.6	1.02	0.303	0.02	0.57
781688	0.28	0.19	0.3	44	5	546	2.82	4.3	3.2	12.5	98.6	7.68	< 0.1	2.8	15.1	32.1	3.89	0.9	1.3	1.47	0.622	0.03	0.89
781689	0.42	0.21	0.4	49	4	516	2.81	4.2	2.7	18.9	95.4	9.02	< 0.1	2.7	16.8	42.1	3.36	0.6	0.6	1.56	0.396	0.03	0.85
745920	0.07	0.84	4.8	51	27	458	2.88	7.9	26.0	50.0	39.6	4.68	< 0.1	3.5	5.0	51.0	9.15	11.0	< 0.1	4.51	0.134	0.02	2.41
745921	0.67	0.93	3.6	31	16	576	3.30	5.8	9.8	1010	55.6	4.18	< 0.1	2.8	4.7	51.3	9.79	5.9	0.3	5.90	0.178	0.04	1.52

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
981100	0.47	0.37	1.73	198	14.0	32.6	0.65	3.4	12.9	2.4	0.9	0.5	2.4	0.3	1.4	0.4	0.8	0.1	0.9	0.1	< 0.1	< 0.05	< 0.1
981101	0.45	0.19	1.01	140	13.7	29.5	0.34	3.2	12.1	2.2	0.6	0.4	2.1	0.3	1.4	0.4	0.8	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
981102	0.32	0.41	1.20	254	12.9	29.7	0.50	2.9	11.2	2.1	0.6	0.4	1.8	0.2	1.0	0.3	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981103	0.33	0.05	1.26	111	11.2	28.3	0.08	2.4	8.71	1.4	0.4	0.3	1.3	0.2	0.6	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981104	0.28	0.03	1.24	201	14.1	35.1	0.41	3.2	12.3	2.2	0.5	0.5	2.0	0.3	1.1	0.3	0.6	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
981105	0.28	0.06	2.14	82.1	12.3	28.6	0.58	2.7	10.3	2.0	0.6	0.4	1.9	0.3	1.3	0.3	0.7	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1
981106	0.29	0.02	1.17	130	9.6	22.7	0.33	2.2	7.84	1.4	0.4	0.3	1.3	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981107	0.72	< 0.02	2.83	78.6	15.3	37.4	0.14	3.7	14.3	3.0	0.5	0.7	3.0	0.5	2.3	0.6	1.4	0.3	1.7	0.2	< 0.1	< 0.05	< 0.1
981108	0.31	0.08	2.13	157	10.3	22.3	1.66	2.3	8.17	1.5	0.8	0.3	1.5	0.2	0.9	0.2	0.6	0.1	0.6	< 0.1	< 0.1	0.12	< 0.1
981109	0.42	0.05	1.86	98.0	14.8	34.6	0.39	3.6	14.0	2.7	0.4	0.6	2.6	0.4	1.6	0.4	0.9	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981110	0.31	0.04	2.21	130	15.0	34.1	0.33	3.5	13.4	2.5	0.7	0.5	2.5	0.4	1.7	0.4	0.9	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981111	0.46	0.07	1.74	171	11.8	25.5	0.19	2.7	10.6	2.0	0.8	0.4	2.0	0.3	1.3	0.3	0.7	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1
981112	0.55	0.09	1.33	218	12.9	30.2	1.34	3.0	11.6	2.3	0.6	0.5	2.3	0.3	1.5	0.4	0.9	0.2	1.0	0.2	< 0.1	< 0.05	< 0.1
981113	0.39	0.09	1.07	139	8.8	17.6	0.66	2.0	7.25	1.3	0.4	0.3	1.3	0.2	0.9	0.2	0.5	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981114	0.30	0.20	0.31	263	6.9	13.0	1.69	1.4	5.06	0.9	0.1	0.2	0.7	< 0.1	0.4	0.1	0.2	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981115	0.27	0.31	1.18	469	12.1	20.5	1.36	3.0	12.3	2.6	2.2	0.6	2.8	0.4	1.6	0.4	0.9	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
981116	0.24	0.35	0.68	304	7.9	15.0	1.96	1.7	6.59	1.2	0.8	0.3	1.1	0.2	0.6	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981117	0.26	0.25	0.88	178	8.9	17.1	2.18	2.0	7.51	1.4	0.2	0.3	1.4	0.2	0.9	0.2	0.5	< 0.1	0.6	< 0.1	< 0.1	0.08	< 0.1
981118	0.29	0.25	1.06	169	7.9	14.3	1.92	1.6	5.70	1.0	< 0.1	0.2	0.9	0.1	0.6	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981119	0.25	0.13	0.89	96.1	7.1	13.7	0.45	1.6	5.73	1.0	< 0.1	0.2	0.9	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981120	0.22	0.10	0.98	129	7.0	13.8	0.99	1.6	5.94	1.1	0.6	0.2	0.9	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	0.05	< 0.1
981121	0.34	0.10	1.24	130	5.5	10.9	1.30	1.3	4.79	0.9	0.2	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981122	0.28	0.10	1.04	173	12.1	16.8	5.12	2.7	10.0	1.9	0.4	0.4	1.7	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981123	0.32	0.07	0.93	117	7.4	14.4	2.45	1.6	5.80	1.0	0.3	0.2	1.0	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981124	0.21	0.25	1.68	206	17.3	28.3	1.84	3.9	14.6	2.7	0.8	0.4	2.8	0.4	1.7	0.4	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
981125	0.28	0.14	0.99	78.2	5.9	11.5	0.78	1.3	4.86	0.9	0.4	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981126	0.39	0.14	1.69	145	8.7	17.4	2.54	2.0	7.24	1.3	0.4	0.2	1.2	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981127	0.22	0.08	0.66	111	6.1	12.0	1.60	1.4	5.03	0.9	0.1	0.2	0.9	0.1	0.5	0.1	0.3	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981128	0.28	0.15	0.94	87.8	6.0	11.2	0.65	1.3	4.84	0.9	0.3	0.2	0.8	0.1	0.6	0.1	0.3	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981129	0.63	0.13	2.06	191	17.1	37.0	6.43	4.6	19.8	4.3	0.4	1.1	4.5	0.6	2.9	0.8	1.7	0.3	1.8	0.3	< 0.1	< 0.05	< 0.1
981130	0.94	0.06	1.52	68.7	13.9	33.7	0.20	3.6	14.7	3.0	0.4	0.7	3.4	0.5	2.3	0.6	1.5	0.3	1.7	0.2	< 0.1	< 0.05	< 0.1
981131	0.43	1.37	1.83	239	15.3	33.9	0.32	4.0	16.0	3.1	1.8	0.7	2.6	0.4	1.5	0.4	0.9	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981132	0.57	1.59	1.13	49.8	23.3	55.4	1.17	7.1	27.4	4.8	1.6	0.9	3.9	0.5	2.2	0.5	1.0	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
981133	0.34	1.39	1.01	39.8	19.1	45.6	1.64	6.2	25.4	4.9	2.1	1.0	4.4	0.6	2.8	0.6	1.3	0.2	1.3	0.2	< 0.1	< 0.05	< 0.1
981134	0.22	0.55	0.70	136	9.4	20.1	0.44	2.4	8.55	1.4	0.7	0.3	1.0	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981135	0.22	0.58	0.77	59.5	19.7	44.1	0.79	5.6	20.9	3.2	0.5	0.5	2.2	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981136	0.24	0.44	0.78	226	13.8	28.0	0.55	3.4	12.4	2.1	0.6	0.4	1.7	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981137	0.28	0.39	0.81	214	11.9	25.2	0.86	3.3	13.9	2.9	0.6	0.6	2.7	0.4	1.5	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981138	0.31	0.36	0.83	77.5	20.0	41.9	2.93	5.3	21.2	3.9	0.9	0.9	4.0	0.6	2.5	0.6	1.4	0.3	1.4	0.2	< 0.1	< 0.05	< 0.1
981139	0.89	0.20	2.71	453	9.9	26.1	8.04	3.1	14.1	3.4	0.4	0.8	4.1	0.6	2.9	0.8	1.8	0.3	1.8	0.3	< 0.1	< 0.05	< 0.1
981140	0.49	0.45	1.28	272	11.5	29.8	1.77	3.2	13.0	2.9	0.6	0.6	3.3	0.5	2.5	0.7	1.5	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1
981141	0.35	0.11	0.98	138	8.5	19.7	1.80	2.4	10.1	2.2	0.2	0.5	2.5	0.4	2.0	0.5	1.2	0.2	1.2	0.1	< 0.1	< 0.05	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm																				
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS																				
981142	0.57	0.53	1.52	312	10.3	24.1	2.73	3.0	12.9	2.9	0.6	0.6	3.1	0.5	2.3	0.6	1.4	0.3	1.4	0.2	< 0.1	< 0.05	< 0.1
981143	0.29	0.17	0.57	167	4.9	12.3	2.57	1.4	5.36	1.1	0.7	0.2	1.1	0.2	0.8	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981144	0.23	0.11	1.03	269	10.0	29.2	1.86	2.2	8.23	1.4	0.4	0.3	1.4	0.2	1.0	0.3	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981145	0.26	0.15	0.96	238	9.6	22.7	1.29	2.3	9.00	1.8	0.5	0.5	1.8	0.3	1.3	0.4	0.8	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1
981146	0.29	0.19	0.74	34.5	12.8	27.9	0.48	3.4	11.9	1.9	0.3	0.4	1.5	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981147	0.38	0.05	1.09	310	18.2	75.6	3.05	5.1	21.3	4.7	0.6	1.2	5.3	0.8	4.0	1.1	2.5	0.5	2.6	0.4	< 0.1	< 0.05	< 0.1
981148	0.34	0.31	0.69	124	10.1	21.3	1.53	2.3	8.71	1.7	0.1	0.4	1.7	0.3	1.1	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981149	0.27	0.46	0.91	134	12.1	23.1	0.36	2.7	9.70	1.7	0.5	0.3	1.5	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981150	0.28	0.56	1.26	232	10.4	21.1	0.58	2.4	9.24	1.8	0.7	0.5	1.8	0.2	1.1	0.3	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981151	0.23	0.17	0.64	161	10.2	17.4	0.46	1.9	6.96	1.4	0.8	0.3	1.4	0.2	1.0	0.2	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981152	0.24	0.63	0.63	163	12.2	23.4	0.38	2.7	9.84	1.6	0.5	0.3	1.2	0.2	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981153	0.34	1.24	0.67	152	9.4	19.5	0.89	2.4	8.90	1.5	1.1	0.3	1.4	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981154	0.24	0.61	0.67	149	9.6	18.6	0.85	2.1	7.78	1.3	0.6	0.3	1.1	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981155	0.29	0.44	1.38	198	9.3	18.2	2.70	2.1	7.50	1.3	0.4	0.2	1.1	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981156	0.23	0.18	0.50	319	6.2	12.4	1.57	1.4	4.88	0.9	0.3	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981157	0.23	0.33	0.51	144	6.0	11.5	1.88	1.4	5.16	1.0	< 0.1	0.2	1.0	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981158	0.30	0.68	0.96	151	9.4	18.3	2.03	2.1	7.53	1.3	0.7	0.3	1.3	0.2	0.8	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981159	0.18	0.30	0.57	155	6.3	12.0	6.02	1.4	4.97	0.8	< 0.1	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981160	0.27	0.56	0.98	185	19.2	23.7	4.39	5.1	20.9	4.2	0.3	0.8	4.5	0.6	2.8	0.7	1.6	0.3	1.3	0.2	< 0.1	< 0.05	< 0.1
981161	0.26	0.33	1.26	171	9.4	18.2	1.72	2.1	7.50	1.3	< 0.1	0.2	1.2	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
981162	0.20	0.21	0.96	114	12.5	23.4	1.48	2.6	9.30	1.6	0.2	0.3	1.4	0.2	1.0	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981163	0.24	0.34	0.98	170	8.4	15.3	1.94	1.7	6.06	1.1	0.3	0.2	1.1	0.2	0.7	0.2	0.4	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981164	0.14	0.49	4.00	625	85.9	42.8	42.0	28.6	129	27.9	3.4	5.5	33.0	4.3	18.6	5.1	11.4	2.0	9.4	1.5	< 0.1	< 0.05	0.2
981165	0.27	0.29	1.46	213	8.2	14.9	4.07	1.9	7.08	1.3	0.3	0.3	1.4	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
981166	0.27	0.14	2.10	182	13.3	23.5	8.11	3.2	12.2	2.4	0.6	0.5	2.5	0.4	1.6	0.4	0.9	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1
981167	0.41	0.23	1.22	130	6.3	12.1	1.88	1.5	5.55	1.1	< 0.1	0.3	1.1	0.2	0.8	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981168	0.19	0.06	1.61	105	7.3	15.3	5.02	1.9	7.07	1.4	0.5	0.3	1.4	0.2	1.0	0.3	0.6	0.1	0.5	< 0.1	0.1	< 0.05	< 0.1
981169	0.03	0.03	2.23	140	11.2	18.0	0.18	1.6	4.88	0.7	< 0.1	0.1	0.6	< 0.1	0.4	< 0.1	0.2	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981170	0.32	0.25	1.01	88.0	7.4	14.3	1.25	1.7	5.96	1.1	0.2	0.3	1.1	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981171	0.23	0.24	1.93	206	18.3	38.5	4.09	4.4	16.6	3.3	0.7	0.7	3.6	0.6	2.6	0.6	1.4	0.2	1.1	0.1	0.1	< 0.05	< 0.1
981172	0.28	0.20	0.96	148	6.1	11.7	0.45	1.4	5.03	0.9	0.2	0.2	0.8	0.1	0.6	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981173	0.23	0.06	0.50	72.9	6.2	12.1	0.33	1.4	4.94	0.9	< 0.1	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981174	0.32	0.35	1.29	117	7.5	14.5	1.13	1.7	6.11	1.1	0.3	0.3	1.1	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981175	0.25	1.01	1.71	219	14.0	27.7	5.66	3.2	12.2	2.4	0.6	0.5	2.8	0.4	1.9	0.5	1.1	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981176	0.62	1.43	2.50	96.5	13.5	29.6	2.31	3.6	13.9	2.7	1.2	0.6	2.8	0.4	2.1	0.5	1.2	0.2	1.1	0.1	< 0.1	< 0.05	< 0.1
981177	0.64	0.09	1.28	239	10.8	33.3	1.13	2.8	11.2	2.3	0.3	0.6	2.5	0.4	1.9	0.5	1.1	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981178	0.60	0.12	1.28	308	11.2	34.6	4.16	2.6	10.0	2.0	< 0.1	0.5	2.2	0.3	1.5	0.4	0.9	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1
981179	0.49	0.10	0.85	74.6	8.4	18.4	0.49	1.9	7.24	1.4	0.3	0.3	1.5	0.2	1.1	0.3	0.6	0.1	0.6	< 0.1	< 0.05	< 0.1	
981180	0.25	0.55	0.86	163	12.1	24.6	0.26	3.0	11.1	2.0	0.9	0.4	1.7	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981181	0.19	0.26	0.85	124	10.3	19.8	0.22	2.3	8.10	1.3	0.5	0.3	1.1	0.1	0.6	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
981182	0.18	0.19	0.67	159	12.8	26.0	0.46	2.9	10.4	1.7	0.8	0.3	1.4	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981183	0.17	0.18	0.42	137	11.5	22.0	0.51	2.5	8.91	1.4	1.4	0.3	1.2	0.2	0.7	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS																					
981184	0.32	0.23	0.53	143	8.9	17.6	0.94	2.2	8.21	1.7	0.8	0.4	1.7	0.3	1.2	0.3	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	
981185	0.22	0.19	0.79	123	9.0	17.5	0.39	2.0	7.14	1.3	0.6	0.3	1.1	0.2	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	
981186	0.19	0.16	0.83	191	13.1	25.8	0.29	3.0	10.7	1.8	0.8	0.4	1.5	0.2	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	
981187	0.19	0.16	1.02	218	14.6	28.9	0.32	3.3	11.8	2.0	0.8	0.4	1.5	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	
981188	0.25	0.41	1.33	405	34.5	56.9	4.57	9.8	43.0	9.4	3.5	2.4	10.9	1.5	6.8	1.8	4.2	0.7	3.5	0.6	< 0.1	< 0.05	< 0.1	
981189	0.34	1.27	1.09	30.5	31.0	65.9	1.47	8.0	29.0	5.2	3.6	1.1	4.1	0.6	2.4	0.6	1.2	0.2	1.1	0.1	< 0.1	< 0.05	< 0.1	
981190	0.60	0.63	2.79	121	22.1	51.4	2.97	5.6	22.0	4.5	2.8	1.1	4.8	0.7	3.3	0.8	2.0	0.4	2.0	0.3	< 0.1	< 0.05	< 0.1	
981191	0.62	1.00	3.33	353	16.3	42.6	6.20	4.2	16.2	3.5	1.4	0.8	4.1	0.7	3.2	0.9	2.0	0.3	1.7	0.2	< 0.1	< 0.05	0.1	
981192	0.25	0.30	1.59	51.1	21.7	46.7	1.17	5.4	20.4	3.9	1.9	0.9	3.7	0.6	2.6	0.7	1.6	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1	
981193	0.09	0.09	1.58	59.5	9.0	21.8	2.19	2.7	11.4	2.4	0.2	0.5	2.7	0.4	2.0	0.6	1.3	0.3	1.2	0.2	< 0.1	< 0.05	< 0.1	
981194	0.30	0.10	1.80	130	12.1	30.3	0.83	3.1	11.8	2.3	0.5	0.5	2.4	0.4	1.7	0.4	1.0	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1	
981195	0.24	0.10	1.50	161	14.4	35.9	0.31	3.5	13.3	2.7	0.3	0.5	2.8	0.4	1.9	0.5	1.1	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	
981196	0.24	0.17	1.93	164	17.1	42.8	0.95	4.6	17.7	3.5	0.7	0.7	3.7	0.6	2.6	0.7	1.5	0.3	1.4	0.2	< 0.1	< 0.05	< 0.1	
981197	0.13	0.09	3.45	205	34.1	107	0.36	7.5	26.6	4.7	0.5	1.0	4.7	0.7	3.1	0.8	1.8	0.3	1.7	0.2	< 0.1	< 0.05	< 0.1	
981198	0.25	0.16	1.72	81.4	16.0	41.7	0.94	4.6	18.4	3.9	1.1	1.1	4.4	0.7	3.1	0.8	1.9	0.4	1.9	0.3	< 0.1	< 0.05	< 0.1	
981199	0.28	0.99	3.11	261	29.5	111	9.30	7.7	30.0	6.3	3.4	1.5	6.8	1.0	4.9	1.3	3.1	0.6	2.9	0.4	< 0.1	< 0.05	< 0.1	
745918	0.32	0.06	0.37	99.0	5.4	11.5	0.16	1.6	7.06	1.6	0.1	0.4	2.1	0.3	1.6	0.4	1.0	0.2	0.8	0.1	0.2	< 0.05	5.0	
745919	0.33	0.07	1.68	166	15.5	34.7	0.17	4.7	19.2	4.0	0.4	0.9	4.5	0.7	3.1	0.8	1.7	0.3	1.4	0.2	< 0.1	< 0.05	< 0.1	
981201	0.41	0.27	1.49	143	26.7	64.4	4.32	7.6	31.4	6.8	1.3	1.8	8.0	1.2	5.7	1.5	3.3	0.6	2.9	0.4	< 0.1	< 0.05	< 0.1	
981202	0.60	0.45	5.61	120	22.4	55.9	1.85	6.1	24.8	5.4	3.5	1.2	6.4	1.0	4.8	1.3	3.0	0.5	2.7	0.4	< 0.1	< 0.05	< 0.1	
981203	0.49	2.92	0.90	22.3	20.3	43.0	0.41	5.2	18.1	2.9	3.1	0.6	2.5	0.3	1.2	0.3	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1	
981204	0.18	0.59	1.50	42.5	13.9	29.3	2.18	3.2	11.1	1.9	1.1	0.5	2.1	0.3	1.5	0.4	0.8	0.2	0.7	< 0.1	< 0.1	< 0.05	< 0.1	
981205	0.47	0.25	0.86	238	6.9	14.3	1.66	1.5	5.48	1.0	0.6	0.2	1.1	0.2	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.05	< 0.1		
981206	0.67	0.41	0.99	150	9.6	19.0	1.12	2.0	7.03	1.2	0.8	0.3	1.3	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
981207	0.89	0.68	0.72	126	13.1	25.3	0.77	2.7	9.30	1.6	1.4	0.4	1.5	0.2	1.0	0.3	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1	
981208	0.61	0.30	0.92	249	9.5	19.2	1.35	2.1	7.30	1.2	0.9	0.3	1.3	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
981209	0.45	0.36	1.07	97.9	10.3	19.8	0.52	2.2	8.01	1.4	0.6	0.3	1.4	0.2	0.9	0.2	0.5	0.1	0.5	< 0.1	< 0.05	< 0.1		
981210	0.34	0.46	2.69	203	14.3	30.1	6.11	3.9	16.5	4.0	1.6	1.0	5.0	0.8	3.6	1.0	2.2	0.4	1.8	0.2	< 0.1	< 0.05	< 0.1	
981211	0.33	0.27	1.28	93.1	9.6	18.3	0.48	2.1	7.49	1.3	0.4	0.3	1.3	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
981212	0.34	0.47	1.54	107	8.4	16.0	0.36	1.8	6.87	1.3	0.4	0.3	1.3	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1	< 0.05	< 0.1		
981213	0.38	0.71	1.55	78.8	10.2	22.0	0.55	2.3	8.64	1.8	1.0	0.4	1.8	0.3	1.3	0.3	0.7	0.1	0.6	< 0.1	< 0.05	< 0.1		
981214	0.45	0.94	1.77	102	8.9	18.1	0.48	2.1	7.89	1.6	0.8	0.4	1.7	0.2	1.2	0.3	0.7	0.1	0.6	< 0.1	< 0.05	< 0.1		
981215	0.28	0.38	1.59	87.5	8.3	16.8	0.35	1.9	7.22	1.3	0.6	0.3	1.4	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
981216	0.51	0.47	2.14	62.0	13.9	33.7	0.85	3.8	15.0	3.1	0.7	0.8	3.6	0.6	2.6	0.7	1.4	0.3	1.1	0.1	< 0.1	< 0.05	< 0.1	
981217	0.46	0.58	2.14	84.3	10.6	22.6	0.74	2.5	9.46	1.9	0.6	0.5	2.2	0.4	1.7	0.4	0.9	0.2	0.8	< 0.1	< 0.1	< 0.05	< 0.1	
981218	0.70	1.07	2.93	67.5	14.4	46.3	7.41	4.1	17.0	3.7	1.1	1.0	4.4	0.7	3.4	0.9	1.9	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1	
981219	0.47	0.83	3.67	146	11.5	24.4	0.74	2.7	10.7	2.2	0.9	0.6	2.5	0.4	1.9	0.5	1.1	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	
981220	0.83	1.38	6.00	133	21.6	49.2	3.01	5.4	21.2	4.3	1.4	1.1	4.8	0.8	3.5	0.9	2.0	0.4	1.6	0.2	< 0.1	< 0.05	< 0.1	
981221	0.14	0.07	1.51	314	22.7	73.4	0.67	6.1	22.8	4.6	0.3	1.2	4.9	0.7	3.2	0.8	1.8	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1	
981222	0.22	0.06	2.26	439	15.2	31.5	0.14	3.7	14.3	2.8	0.6	0.8	3.5	0.5	2.1	0.5	1.2	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1	
981223	0.28	0.07	2.13	224	22.0	51.4	0.43	6.3	25.0	5.1	0.8	1.5	6.2	0.9	4.1	1.1	2.4	0.4	2.0	0.3	< 0.1	< 0.05	< 0.1	
981224	0.22	0.08	3.87	290	10.7	34.4	2.21	2.7	11.0	2.4	0.3	0.7	3.1	0.5	2.2	0.6	1.3	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1	

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm																				
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS																				
981225	0.22	0.05	2.32	237	7.3	20.9	0.58	1.8	6.89	1.4	0.2	0.3	1.7	0.3	1.1	0.3	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981226	0.21	0.04	1.79	269	6.7	17.9	0.26	1.5	5.50	1.0	< 0.1	0.2	1.2	0.2	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981227	0.25	0.11	1.10	256	5.7	15.3	0.50	1.3	4.69	0.9	0.4	0.2	1.2	0.2	0.8	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981228	0.31	0.09	1.54	347	7.0	15.4	3.94	1.6	5.88	1.2	0.2	0.2	1.3	0.2	0.8	0.2	0.5	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981229	0.29	0.10	0.88	119	4.1	10.1	0.50	1.0	3.81	0.7	< 0.1	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981230	0.22	0.10	0.95	133	5.3	11.6	0.36	1.3	4.59	0.9	< 0.1	0.2	1.0	0.1	0.6	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981231	0.12	0.05	1.00	74.2	6.7	13.3	0.19	1.6	5.82	1.0	< 0.1	0.2	1.1	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981232	0.34	0.05	0.99	256	4.8	10.7	0.49	1.3	4.89	1.0	0.2	0.3	1.3	0.2	0.9	0.3	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981233	0.13	0.06	0.87	208	7.5	13.6	0.94	1.9	7.71	1.6	< 0.1	0.4	2.1	0.3	1.4	0.4	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
981234	0.32	0.18	2.84	154	9.8	21.4	1.16	2.3	8.61	1.7	1.0	0.4	2.0	0.3	1.3	0.3	0.7	0.1	0.6	< 0.1	0.1	< 0.05	< 0.1
981235	0.42	0.19	1.71	263	14.3	23.6	0.55	3.5	13.5	2.6	0.5	0.7	3.2	0.5	2.1	0.5	1.2	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981236	0.33	0.17	1.63	116	6.4	15.8	0.85	1.6	6.42	1.3	0.4	0.3	1.7	0.2	1.2	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
981237	0.34	0.09	0.90	66.0	8.0	20.2	1.23	2.0	7.37	1.5	0.4	0.3	1.8	0.3	1.2	0.3	0.7	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981238	0.23	0.06	0.73	104	4.6	9.99	0.67	1.1	3.88	0.7	< 0.1	0.2	0.8	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981239	0.27	0.07	0.79	86.3	5.0	11.2	0.59	1.2	4.24	0.8	< 0.1	0.2	0.9	0.1	0.6	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981240	0.21	0.13	0.84	108	7.8	16.3	0.38	1.8	6.43	1.2	< 0.1	0.2	1.2	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981241	0.22	0.11	0.75	106	6.2	12.8	0.44	1.4	5.32	0.9	0.2	0.2	1.0	0.1	0.6	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981242	0.18	0.05	0.71	96.4	4.8	10.4	0.32	1.1	3.98	0.7	< 0.1	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981243	0.27	0.10	1.31	320	107	43.5	2.07	31.4	140	30.4	2.8	8.9	41.1	5.5	25.6	7.1	16.2	2.8	13.4	2.0	< 0.1	< 0.05	0.3
981244	0.34	0.09	1.19	275	75.9	33.6	2.73	20.1	85.3	18.2	2.4	5.6	25.2	3.5	17.7	4.9	11.6	2.1	10.0	1.5	0.1	0.07	< 0.1
981245	0.24	0.10	0.88	71.3	5.4	10.8	0.20	1.3	4.92	0.9	< 0.1	0.2	1.0	0.1	0.6	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
981246	0.28	0.22	0.95	319	22.1	36.8	4.92	5.7	23.6	4.9	1.0	1.4	6.7	0.9	4.4	1.2	2.7	0.5	2.3	0.3	< 0.1	< 0.05	< 0.1
981247	0.16	0.14	1.57	135	45.2	24.7	8.07	12.1	52.9	11.6	1.5	3.5	16.3	2.3	11.2	3.2	7.3	1.3	6.3	0.9	< 0.1	< 0.05	< 0.1
981248	0.16	0.05	0.68	99.6	4.7	9.71	0.22	1.1	3.91	0.7	< 0.1	0.2	0.9	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.05	< 0.1	
981249	0.24	0.11	1.10	78.0	6.5	13.3	0.26	1.6	5.98	1.2	< 0.1	0.3	1.4	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781651	0.28	0.04	1.63	399	26.6	51.3	0.85	7.2	29.2	6.2	< 0.1	1.9	7.9	1.1	5.0	1.3	2.9	0.5	2.6	0.4	< 0.1	< 0.05	< 0.1
781652	0.38	0.50	1.68	166	21.3	46.0	4.48	6.6	27.6	6.3	1.0	1.7	7.8	1.1	5.4	1.4	3.3	0.6	3.2	0.4	< 0.1	< 0.05	< 0.1
781653	0.34	0.08	2.33	292	23.2	47.7	0.64	6.1	25.1	5.2	< 0.1	1.5	6.5	0.9	4.0	1.1	2.4	0.4	1.9	0.3	< 0.1	< 0.05	< 0.1
781654	0.15	0.08	1.15	751	20.3	21.4	1.64	5.1	19.9	3.8	0.4	0.9	4.4	0.6	2.6	0.7	1.4	0.2	1.2	0.1	< 0.1	< 0.05	< 0.1
781655	0.22	0.10	0.54	101	4.5	9.66	0.22	1.1	4.01	0.7	< 0.1	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
781656	0.42	0.11	0.60	96.1	7.1	16.4	0.41	1.7	6.29	1.2	< 0.1	0.2	1.3	0.2	0.8	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781657	0.28	0.10	0.65	71.1	7.6	19.2	0.60	1.9	7.11	1.3	< 0.1	0.3	1.6	0.2	1.0	0.3	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781658	0.14	0.04	0.30	69.0	4.5	9.01	0.18	1.1	3.98	0.7	< 0.1	0.2	0.7	< 0.1	0.4	0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
781659	0.32	0.14	0.88	78.1	9.2	24.6	1.07	2.4	9.17	1.9	< 0.1	0.5	2.4	0.4	1.8	0.5	1.1	0.2	1.1	0.1	< 0.1	< 0.05	< 0.1
781660	0.50	0.08	0.69	123	4.9	11.1	1.01	1.2	4.44	0.9	< 0.1	0.2	1.1	0.2	0.8	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781661	0.42	0.14	1.28	247	13.4	36.1	1.06	3.6	14.2	2.8	0.2	0.7	3.5	0.5	2.3	0.6	1.4	0.3	1.3	0.2	< 0.1	< 0.05	< 0.1
781662	0.38	0.08	0.49	206	11.4	68.2	0.49	2.9	10.2	1.9	< 0.1	0.4	2.1	0.3	1.1	0.3	0.6	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
781663	0.31	0.11	0.68	151	7.9	24.3	0.67	1.9	6.75	1.3	< 0.1	0.3	1.4	0.2	0.8	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
781664	0.31	0.06	1.34	526	16.1	59.4	1.35	4.0	14.7	2.6	< 0.1	0.6	2.9	0.4	1.6	0.4	0.9	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1
781665	0.33	0.10	1.31	495	14.5	37.3	1.71	3.3	11.8	2.2	0.3	0.5	2.4	0.3	1.3	0.3	0.8	0.1	0.7	< 0.1	0.10	< 0.1	
781666	0.37	0.17	1.67	149	10.8	30.0	0.64	2.8	10.6	2.1	< 0.1	0.5	2.3	0.3	1.5	0.4	0.8	0.1	0.7	< 0.1	< 0.05	< 0.1	
781667	0.85	0.16	0.75	114	9.3	24.0	1.05	2.3	8.37	1.7	0.1	0.4	2.0	0.3	1.3	0.3	0.8	0.1	0.7	< 0.1	0.1	< 0.05	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07490

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
781668	0.21	0.08	1.27	120	7.4	14.9	0.44	1.7	6.42	1.2	< 0.1	0.3	1.2	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781669	0.23	0.10	1.13	79.6	6.9	14.4	0.25	1.6	6.10	1.1	< 0.1	0.3	1.2	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781670	0.29	0.25	0.85	55.0	7.0	13.5	0.43	1.6	6.14	1.1	0.6	0.4	1.2	0.2	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
781671	0.22	0.14	1.12	106	7.5	15.3	0.60	1.9	7.49	1.4	0.3	0.4	1.7	0.2	1.0	0.3	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781672	0.19	0.13	0.99	94.6	7.5	15.1	0.26	1.8	6.72	1.3	0.2	0.3	1.4	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781673	0.22	0.14	1.25	108	8.6	17.3	0.44	2.1	7.67	1.4	0.3	0.3	1.5	0.2	0.9	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781674	1.13	0.14	3.25	126	15.4	42.7	0.77	4.2	16.5	3.4	< 0.1	0.8	3.7	0.5	2.3	0.6	1.3	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1
781675	0.22	0.10	2.28	103	7.7	15.7	0.44	1.8	6.82	1.2	< 0.1	0.3	1.2	0.2	0.6	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
781676	0.22	0.11	1.57	80.7	6.9	14.1	0.20	1.6	6.06	1.1	0.2	0.2	1.1	0.1	0.5	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
781677	0.29	0.16	1.56	165	9.5	18.8	0.34	2.3	8.55	1.5	0.3	0.4	1.7	0.2	1.0	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781678	0.22	0.14	1.22	87.0	7.5	16.0	0.36	1.8	6.79	1.3	< 0.1	0.3	1.5	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781679	0.65	0.17	2.56	358	27.2	53.0	1.96	7.2	28.4	5.6	< 0.1	1.5	6.2	0.8	3.6	0.9	2.0	0.4	1.8	0.3	< 0.1	< 0.05	< 0.1
781680	0.63	0.12	1.95	398	24.1	47.2	1.28	6.5	26.5	5.5	0.4	1.5	6.9	1.0	4.2	1.1	2.5	0.5	2.3	0.3	< 0.1	< 0.05	< 0.1
781681	0.46	0.09	1.43	208	19.4	38.8	0.91	5.0	19.6	3.9	< 0.1	1.3	4.5	0.6	2.8	0.7	1.7	0.3	1.7	0.3	< 0.1	< 0.05	< 0.1
781682	0.37	0.15	1.63	214	18.7	49.9	2.55	5.6	23.5	5.4	0.5	1.4	6.4	0.9	4.1	1.1	2.4	0.4	2.1	0.3	< 0.1	< 0.05	< 0.1
781683	0.18	0.14	1.60	112	7.4	14.9	0.34	1.8	6.62	1.2	0.2	0.3	1.3	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781684	0.17	0.09	1.08	157	7.8	16.2	0.43	2.0	7.40	1.5	< 0.1	0.4	1.7	0.2	1.0	0.3	0.6	0.1	0.5	< 0.1	< 0.1	0.05	< 0.1
781685	0.43	0.22	1.50	162	11.7	24.5	1.13	2.7	9.61	1.7	< 0.1	0.3	1.7	0.2	0.9	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781686	0.37	0.24	1.39	278	6.0	16.2	3.58	1.5	5.72	1.0	0.1	0.2	1.2	0.2	0.7	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781687	0.15	0.09	0.88	70.4	5.0	10.4	0.23	1.2	4.44	0.8	< 0.1	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
781688	0.24	0.11	1.06	93.5	7.8	15.7	0.34	1.9	6.86	1.2	< 0.1	0.3	1.4	0.2	0.8	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
781689	0.23	0.14	1.11	97.7	6.9	13.7	0.38	1.6	6.04	1.1	< 0.1	0.3	1.2	0.1	0.6	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
745920	0.50	0.04	0.35	130	6.2	13.5	0.16	1.9	8.03	1.9	0.3	0.4	2.3	0.3	1.6	0.4	0.9	0.2	0.8	0.1	0.2	< 0.05	< 0.1
745921	1.23	0.08	0.27	77.4	6.6	13.7	0.14	1.8	7.19	1.5	1.3	0.3	2.1	0.3	1.5	0.4	1.0	0.2	1.0	0.2	0.1	< 0.05	2.3

Results**Activation Laboratories Ltd.****Report: A17-07490**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
981100	0.004	6.8	0.12	58.0	0.5	1.8	80
981101	0.002	3.3	0.07	65.9	0.7	1.3	40
981102	0.002	3.2	0.13	136	0.4	1.1	40
981103	0.003	2.9	0.12	14.4	0.2	0.8	40
981104	0.001	3.6	0.10	155	0.2	0.9	100
981105	0.003	1.6	0.08	27.8	0.2	1.3	100
981106	< 0.001	< 0.5	0.08	34.7	< 0.1	0.9	60
981107	< 0.001	4.0	0.09	13.9	2.4	1.3	20
981108	< 0.001	< 0.5	0.08	118	0.2	1.2	80
981109	0.003	3.5	0.07	58.0	2.2	1.3	50
981110	< 0.001	2.2	0.08	29.6	0.4	1.5	70
981111	0.002	1.3	0.10	19.8	0.9	1.2	40
981112	< 0.001	3.0	0.08	21.9	1.1	1.5	80
981113	0.001	< 0.5	0.07	30.3	0.6	1.1	40
981114	0.005	1.4	0.05	18.2	0.1	0.6	< 10
981115	0.004	3.0	0.35	78.8	0.6	11.8	90
981116	< 0.001	3.0	0.17	188	0.2	18.9	50
981117	0.001	< 0.5	0.12	87.1	0.8	1.3	20
981118	< 0.001	0.6	0.10	115	1.4	0.7	20
981119	< 0.001	< 0.5	0.07	19.2	1.4	0.5	60
981120	0.002	< 0.5	0.09	29.5	1.7	0.6	80
981121	< 0.001	< 0.5	0.11	18.0	0.9	0.6	40
981122	< 0.001	< 0.5	0.05	15.3	1.1	0.9	40
981123	< 0.001	< 0.5	0.05	10.1	1.8	0.6	50
981124	0.006	11.4	0.12	232	1.8	1.4	80
981125	0.002	1.2	0.08	30.8	1.5	0.7	60
981126	0.003	< 0.5	0.11	29.1	1.9	0.8	60
981127	< 0.001	< 0.5	0.05	14.1	0.7	0.6	20
981128	0.001	31.4	0.05	11.9	0.6	0.7	60
981129	0.003	7.6	0.07	199	1.8	1.5	40
981130	0.004	5.8	0.03	15.3	2.5	1.3	< 10
981131	0.001	22.7	0.38	36.4	2.1	1.8	90
981132	0.005	14.0	0.19	321	1.7	1.1	40
981133	0.001	11.2	0.18	107	0.5	0.9	60
981134	< 0.001	< 0.5	0.12	48.3	0.1	0.6	60
981135	0.001	1.5	0.20	59.6	0.2	0.9	40
981136	0.003	0.6	0.14	53.4	0.5	0.9	80
981137	0.004	< 0.5	0.12	34.2	0.3	0.9	40
981138	0.003	8.2	0.11	263	0.5	1.1	50
981139	< 0.001	23.5	0.14	77.2	1.2	0.9	40
981140	0.003	1.7	0.22	35.3	0.3	0.9	60
981141	< 0.001	1.8	0.11	46.8	0.1	0.7	30

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
981142	< 0.001	10.2	0.13	49.3	0.2	1.0	60
981143	0.003	2.3	0.07	28.2	< 0.1	1.0	100
981144	0.003	< 0.5	0.11	22.2	0.1	1.2	40
981145	0.003	2.5	0.09	40.4	0.1	0.9	90
981146	0.005	1.7	0.20	24.0	0.7	0.8	20
981147	< 0.001	4.2	0.10	57.6	0.6	1.5	30
981148	0.001	1.8	0.07	86.6	0.4	1.1	40
981149	0.003	27.4	0.15	52.3	0.2	1.1	60
981150	0.001	1.4	0.16	192	0.1	1.1	40
981151	0.005	< 0.5	0.15	39.6	0.5	1.1	40
981152	0.006	0.5	0.17	59.8	0.7	0.9	60
981153	0.005	4.8	0.11	34.1	< 0.1	1.1	80
981154	0.002	1.6	0.11	60.1	1.7	1.1	20
981155	0.003	4.6	0.13	77.3	0.2	1.0	50
981156	0.005	6.8	0.09	36.5	0.1	0.6	70
981157	0.002	2.9	0.06	45.7	0.2	0.7	30
981158	0.002	0.6	0.08	88.6	1.3	1.0	20
981159	0.003	1.5	0.07	39.1	1.0	0.6	< 10
981160	< 0.001	3.8	0.07	193	0.7	1.7	20
981161	0.002	40.1	0.16	37.1	2.0	0.7	30
981162	0.003	1.9	0.12	124	2.9	1.3	140
981163	0.002	1.3	0.14	133	2.4	0.9	10
981164	0.002	5.4	0.28	186	2.3	9.0	90
981165	0.002	5.0	0.15	48.6	1.7	0.7	40
981166	0.004	3.2	0.11	40.9	1.3	1.1	30
981167	0.003	2.2	0.13	29.1	1.7	0.7	40
981168	0.004	3.0	0.05	10.1	1.7	0.7	80
981169	0.006	2.5	0.21	3.04	1.2	0.8	< 10
981170	0.002	2.3	0.10	35.8	2.2	0.7	110
981171	0.003	3.4	0.15	187	4.4	2.1	100
981172	0.006	4.3	0.10	18.1	1.5	0.6	60
981173	0.003	1.9	0.08	11.9	1.1	0.4	30
981174	0.002	0.9	0.12	35.4	1.8	0.8	10
981175	0.001	5.3	0.16	73.0	2.1	2.3	70
981176	0.008	36.8	0.27	592	1.0	1.6	50
981177	0.002	2.7	0.08	30.0	< 0.1	1.2	70
981178	0.005	10.1	0.13	35.8	0.3	1.3	50
981179	0.004	0.7	0.09	20.8	0.2	1.0	50
981180	0.008	5.1	0.27	69.4	0.1	0.8	30
981181	0.004	2.0	0.23	54.3	< 0.1	0.6	30
981182	0.006	14.4	0.26	77.3	0.2	1.0	40
981183	0.005	5.8	0.22	66.0	0.5	1.0	50

Results**Activation Laboratories Ltd.****Report: A17-07490**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
981184	0.003	63.6	0.14	70.1	1.0	1.4	80
981185	0.003	5.4	0.18	52.7	0.2	0.8	60
981186	0.004	12.5	0.24	98.4	< 0.1	0.7	40
981187	0.003	6.2	0.25	105	< 0.1	0.8	60
981188	0.007	28.6	0.36	206	0.8	2.1	40
981189	0.005	25.4	0.24	130	5.8	2.8	20
981190	0.004	11.0	0.16	305	4.6	4.1	20
981191	0.004	22.0	0.14	190	3.9	3.9	30
981192	0.008	5.2	0.11	91.7	4.6	3.0	20
981193	0.004	6.0	0.02	19.7	3.5	0.9	70
981194	0.004	5.3	0.10	48.3	1.1	1.3	50
981195	0.006	2.8	0.11	20.1	1.5	3.1	70
981196	0.003	4.3	0.13	40.0	1.5	7.5	40
981197	0.003	7.6	0.21	36.7	1.7	2.7	70
981198	0.003	4.0	0.11	611	1.9	2.1	60
981199	0.004	6.7	0.14	130	3.6	3.3	50
745918	0.003	1.6	0.07	3.95	1.2	0.4	40
745919	0.011	3.6	0.07	8.16	1.7	0.7	20
981201	0.009	3.5	0.09	99.3	2.1	1.2	80
981202	0.005	14.6	0.25	56.9	4.9	1.9	30
981203	0.004	15.5	0.38	145	3.4	0.9	40
981204	0.003	5.6	0.23	192	0.5	1.3	50
981205	0.003	5.4	0.20	124	< 0.1	0.7	90
981206	0.008	3.0	0.24	120	0.1	1.0	80
981207	0.003	5.9	0.15	117	0.2	1.0	110
981208	0.003	4.9	0.28	64.2	< 0.1	0.9	40
981209	0.004	5.9	0.16	55.8	0.5	1.0	70
981210	0.007	7.8	0.14	102	0.2	1.2	30
981211	0.008	21.8	0.18	50.2	< 0.1	0.9	60
981212	0.003	13.7	0.28	84.0	0.4	0.8	60
981213	0.006	7.7	0.18	82.8	0.8	1.1	130
981214	0.004	6.4	0.18	124	0.3	0.9	20
981215	0.006	5.1	0.16	67.4	0.2	0.7	70
981216	0.002	4.4	0.11	122	0.8	1.3	40
981217	0.004	4.8	0.20	192	0.6	1.3	60
981218	0.004	16.3	0.12	247	0.8	1.5	90
981219	0.005	6.3	0.22	176	0.8	1.6	80
981220	0.008	17.0	0.32	532	2.2	2.3	60
981221	0.003	5.3	0.18	96.4	1.4	1.9	70
981222	0.006	6.4	0.14	13.7	0.5	1.2	10
981223	0.006	6.3	0.11	13.1	1.4	1.5	70
981224	0.005	3.5	0.15	95.8	0.8	1.1	20

Results**Activation Laboratories Ltd.****Report: A17-07490**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
981225	0.005	7.9	0.10	17.2	0.1	1.1	20
981226	0.009	5.4	0.13	18.8	0.2	0.7	70
981227	0.006	9.1	0.12	30.3	< 0.1	0.6	70
981228	0.008	2.1	0.13	43.2	< 0.1	0.5	50
981229	0.006	5.5	0.13	25.2	0.3	0.5	20
981230	0.003	3.4	0.16	19.9	0.3	0.4	70
981231	0.005	1.3	0.13	22.4	< 0.1	0.5	70
981232	0.007	6.2	0.16	17.9	0.2	0.6	20
981233	0.005	0.7	0.16	29.5	0.5	3.0	10
981234	0.004	5.1	0.24	132	0.6	1.5	110
981235	0.006	2.1	0.20	61.6	0.2	1.1	60
981236	0.005	4.7	0.21	108	0.3	0.7	50
981237	0.006	5.7	0.07	105	0.1	0.6	70
981238	0.005	3.3	0.17	37.7	0.2	0.5	10
981239	0.008	0.8	0.17	31.4	0.1	0.6	60
981240	0.004	4.3	0.19	30.7	0.1	0.7	40
981241	0.007	3.0	0.20	33.3	0.4	0.7	10
981242	0.004	3.4	0.24	24.6	0.1	0.5	10
981243	0.001	5.4	0.15	67.0	0.8	31.5	70
981244	0.001	6.8	0.13	75.4	0.7	21.1	70
981245	0.005	3.7	0.25	32.1	0.4	0.6	20
981246	0.002	9.6	0.14	145	0.5	16.6	30
981247	0.007	7.0	0.24	77.9	1.4	52.4	20
981248	0.005	4.9	0.29	27.4	0.2	0.7	30
981249	0.007	1.3	0.20	40.7	0.5	0.8	20
781651	0.003	8.6	0.17	60.1	2.4	1.4	30
781652	< 0.001	5.3	0.19	941	2.3	2.4	50
781653	0.002	14.8	0.14	31.3	2.6	1.3	30
781654	0.003	3.1	0.16	35.8	0.6	2.6	40
781655	0.009	4.6	0.16	19.2	0.2	0.5	10
781656	0.005	2.3	0.16	29.5	0.3	0.7	70
781657	0.003	6.0	0.12	43.9	0.7	0.8	40
781658	0.009	32.6	0.18	13.2	0.2	0.5	30
781659	< 0.001	1.5	0.14	22.4	0.6	0.9	40
781660	0.007	4.4	0.14	18.8	0.6	0.9	30
781661	0.004	1.7	0.17	60.9	0.4	1.5	70
781662	0.003	6.5	0.14	99.6	0.7	1.4	70
781663	0.007	< 0.5	0.11	29.6	0.6	1.1	100
781664	0.006	4.1	0.16	109	3.0	1.6	30
781665	0.005	< 0.5	0.18	51.7	1.1	1.2	60
781666	0.007	9.3	0.16	46.2	0.4	1.0	50
781667	0.006	28.8	0.20	134	1.8	1.4	50

Results**Activation Laboratories Ltd.****Report: A17-07490**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
781668	0.003	3.2	0.17	25.2	0.1	0.8	< 10
781669	0.008	4.4	0.18	19.1	0.2	0.8	100
781670	0.002	23.3	0.10	23.0	0.1	0.9	100
781671	0.003	8.6	0.12	16.9	0.2	1.2	20
781672	0.006	7.8	0.14	26.5	0.5	0.8	70
781673	0.005	2.8	0.18	24.6	0.7	1.0	70
781674	0.005	11.2	0.21	44.9	0.5	1.7	60
781675	0.007	9.1	0.17	18.5	< 0.1	0.8	60
781676	0.004	6.5	0.17	20.5	< 0.1	0.8	70
781677	0.005	3.2	0.21	27.6	0.2	1.0	90
781678	0.010	3.0	0.22	55.6	0.5	1.0	60
781679	0.007	12.9	0.18	35.3	3.1	1.8	20
781680	0.005	8.7	0.18	41.6	2.4	2.1	< 10
781681	0.006	11.0	0.15	23.4	1.5	1.6	20
781682	0.006	18.8	0.14	68.6	0.3	1.3	50
781683	0.007	4.1	0.22	35.9	0.1	1.1	70
781684	0.009	5.8	0.22	32.0	0.3	1.0	80
781685	0.004	13.2	0.18	112	0.4	1.5	40
781686	0.008	4.8	0.09	186	0.2	0.8	30
781687	0.008	5.2	0.21	17.2	0.5	0.5	< 10
781688	0.006	4.6	0.18	24.8	0.3	0.9	80
781689	0.004	20.0	0.25	37.1	0.3	0.8	60
745920	0.009	2.2	0.10	3.88	1.3	0.5	60
745921	0.014	44.1	0.06	5.24	2.1	0.5	150

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																				
GXR-1 Meas																								
GXR-1 Cert																								
GXR-6 Meas																								
GXR-6 Cert																								
GXR-6 Meas																								
GXR-6 Cert																								
SDC-1 1F2 Assay (%) Meas			< 30	630	< 10				20	50	0.002					40		0.085			0.003		< 30	
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038		25.0	
SDC-1 1F2 Assay (%) Meas			< 30	630	< 10				20	80	0.003					40		0.087			0.003		< 30	
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038		25.0	
SDC-1 1F2 Assay (%) Meas											0.003													
SDC-1 1F2 Assay (%) Cert											0.0030													
SBC-1 1F2-assay Kamloops (%) Meas			< 30	800	< 10	< 20		< 3	20	110	0.003			30			160		0.118	< 0.001		0.008		< 30
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700		0.400	22.7	109	0.0031			27.0			163		0.116	0.00024		0.00828		35.0
SBC-1 1F2-assay Kamloops (%) Meas			< 30	790	< 10	< 20		< 3	20	170	0.004			20			150		0.117	< 0.001		0.008		< 30
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700		0.400	22.7	109	0.0031			27.0			163		0.116	0.00024		0.00828		35.0
SBC-1 1F2-assay Kamloops (%) Meas											0.003													
SBC-1 1F2-assay Kamloops (%) Cert											0.0031													
DNC-1a 1F2-assay Kamloops (%) Meas				100					60	270	0.011						< 10		0.116			0.026		
DNC-1a 1F2-assay Kamloops (%) Cert				118					57.0	270	0.01						5.20		0.116			0.0247		
DNC-1a 1F2-assay Kamloops (%) Meas				100					50	230	0.010						< 10		0.118			0.026		

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
DNC-1a 1F2-assay Kamloops (%) Cert				118					57.0	270	0.01					5.20		0.116			0.0247		
DNC-1a 1F2-assay Kamloops (%) Meas											0.012												
DNC-1a 1F2-assay Kamloops (%) Cert											0.01												
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	15.0	270	1370	< 10	< 20	0.2	< 3	< 10	210	0.009	5.4	40	< 10	2.3	40	0.6	0.106	< 0.001	0.1	0.002	0.03	90
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	14.7	280	1340	< 10	< 20	0.2	< 3	10	80	0.006	5.4	30	< 10	2.3	30	0.6	0.109	< 0.001	0.1	0.002	0.03	90
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0										0.008												
GXR-6 1F2-assay Kamloops (%) Cert	1.30										0.0066												
GXR-1 1F2-assay Kamloops (%) Meas	37.8	3.0	450	710	< 10	1380	0.9	6	< 10	20	0.115	24.4	10	< 10	< 0.1	10	0.2	0.093	0.002	< 0.1	0.004	0.05	760
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730
GXR-1 1F2-assay Kamloops (%) Meas	37.5	3.2	440	730	< 10	1410	0.9	4	< 10	40	0.122	24.7	< 10	< 10	< 0.1	< 10	0.2	0.097	0.001	< 0.1	0.004	0.06	780
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730
GXR-1 1F2-assay Kamloops (%) Meas	35.0										0.117												
GXR-1 1F2-assay Kamloops (%) Cert	31.0										0.111												
OREAS 14P 1F2-assay									740		0.949	34.2									1.99		

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert									750		0.997	37.2										2.10	
OREAS 14P 1F2-assay Kamloops (%) Meas									760		0.986	34.9										2.04	
OREAS 14P 1F2-assay Kamloops (%) Cert									750		0.997	37.2										2.10	
OREAS 14P 1F2-assay Kamloops (%) Meas											0.946												
OREAS 14P 1F2-assay Kamloops (%) Cert											0.997												
GBW 07238 1F2-assay Kamloops (%) Meas			< 30								0.009		< 10					1.08	1.65		0.003		< 30
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0					1.08	1.51		0.00178		18.7
GBW 07238 1F2-assay Kamloops (%) Meas			< 30								0.010		10					1.09	1.67		0.003		< 30
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0					1.08	1.51		0.00178		18.7
GBW 07238 1F2-assay Kamloops (%) Meas											0.010												
GBW 07238 1F2-assay Kamloops (%) Cert											0.00936												
GBW 07239 1F2-assay Kamloops (%) Meas			< 30			< 20			< 10		0.005		20					1.18	0.129		0.002		< 30

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
GBW 07239 1F2-assay Kamloops (%) Cert				1.0			1.0			13.5		0.00486		23.1					1.15	0.110		0.00209		26.1
GBW 07239 1F2-assay Kamloops (%) Meas			< 30			< 20			10		0.005		10					1.16	0.132		0.002		< 30	
GBW 07239 1F2-assay Kamloops (%) Cert				1.0			1.0			13.5		0.00486		23.1				1.15	0.110		0.00209		26.1	
GBW 07239 1F2-assay Kamloops (%) Meas											0.005													
GBW 07239 1F2-assay Kamloops (%) Cert											0.00486													
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas	18.2										0.023													
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert	3.64										0.0331													
OREAS 922 (AQUA REGIA) Meas																								
OREAS 922 (AQUA REGIA) Cert																								
OREAS 922 (AQUA REGIA) Meas																								
OREAS 922 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas																								
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OREAS 923																								

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
(AQUA REGIA)																							
Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
981112 Orig	< 3.0	7.9	< 30	930	< 10	< 20	1.9	< 3	< 10	60	0.001	4.0	10	< 10	1.8	20	0.8	0.207	< 0.001	2.1	0.001	0.11	< 30
981112 Dup	< 3.0	8.3	< 30	960	< 10	< 20	2.0	< 3	10	70	0.001	4.1	20	< 10	1.9	20	0.9	0.214	< 0.001	2.1	0.001	0.12	< 30
981126 Orig	< 3.0	8.6	< 30	740	< 10	< 20	0.8	5	< 10	50	0.002	5.3	20	< 10	2.0	40	0.5	0.090	< 0.001	2.0	< 0.001	0.12	< 30
981126 Dup	< 3.0	8.6	< 30	740	< 10	< 20	0.8	4	< 10	60	0.002	5.3	10	< 10	2.0	40	0.5	0.088	< 0.001	2.0	< 0.001	0.12	30
981139 Orig																							
981139 Dup																							
981151 Orig	< 3.0	8.7	< 30	880	< 10	< 20	1.1	< 3	< 10	30	0.004	4.9	< 10	< 10	2.0	10	0.6	0.094	< 0.001	1.4	< 0.001	0.19	< 30
981151 Dup	< 3.0	8.6	< 30	880	< 10	< 20	1.2	< 3	< 10	20	0.004	4.9	10	< 10	2.1	10	0.6	0.095	< 0.001	1.4	0.001	0.18	30
981153 Orig																							
981153 Dup																							
981165 Orig	< 3.0	9.0	< 30	900	< 10	< 20	1.4	7	10	50	0.008	4.7	20	< 10	1.9	20	0.6	0.103	0.001	1.7	< 0.001	0.09	50
981165 Dup	< 3.0	8.1	< 30	920	< 10	< 20	1.4	6	< 10	40	0.009	4.7	10	< 10	1.9	20	0.6	0.104	< 0.001	1.8	0.001	0.08	70
981176 Orig																							
981176 Dup																							
981190 Orig	< 3.0	10.2	< 30	1270	< 10	< 20	1.2	< 3	60	10	0.070	10.5	10	< 10	3.2	20	1.3	0.624	< 0.001	1.0	< 0.001	0.25	380
981190 Dup	< 3.0	10.2	< 30	1260	< 10	< 20	1.2	5	60	< 10	0.068	10.3	20	< 10	3.2	20	1.3	0.609	< 0.001	1.0	< 0.001	0.25	370
981202 Orig																							
981202 Dup																							
981203 Orig	< 3.0	10.3	< 30	850	< 10	< 20	< 0.1	< 3	< 10	10	0.004	6.5	10	< 10	6.2	< 10	0.9	0.055	< 0.001	< 0.1	< 0.001	0.10	170
981203 Dup	< 3.0	10.5	< 30	870	< 10	< 20	< 0.1	< 3	< 10	< 10	0.004	6.8	20	< 10	6.4	< 10	0.9	0.056	< 0.001	< 0.1	< 0.001	0.10	170
981216 Orig																							
981216 Dup																							
981228 Orig		7.2	< 30	820	< 10	< 20	1.2	6	20	180		5.1	10	< 10	2.0	10	0.7	0.898	< 0.001	1.2	0.002	0.43	50
981228 Dup		7.2	< 30	830	< 10	< 20	1.1	7	30	170		5.1	< 10	< 10	2.1	10	0.8	0.958	< 0.001	1.2	0.002	0.44	50
981232 Orig																							
981232 Dup																							
981246 Orig																							
981246 Dup																							
781657 Orig	< 3.0	8.3	< 30	870	< 10	< 20	1.2	< 3	< 10	40	0.003	3.6	< 10	< 10	2.3	20	0.7	0.164	< 0.001	2.1	< 0.001	0.10	40
781657 Dup	< 3.0	8.3	< 30	840	< 10	< 20	1.2	< 3	< 10	40	0.003	3.5	< 10	< 10	2.2	20	0.7	0.151	< 0.001	2.0	< 0.001	0.09	50
781660 Orig																							
781660 Dup																							
781671 Orig	< 3.0	7.8	< 30	890	< 10	< 20	1.2	< 3	< 10	20	0.007	3.5	20	< 10	2.2	10	0.9	0.106	< 0.001	1.6	< 0.001	0.11	< 30

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
781671 Dup	< 3.0	7.5	< 30	900	< 10	< 20	1.3	< 3	< 10	20	0.006	3.6	< 10	< 10	2.2	10	0.9	0.105	< 0.001	1.7	< 0.001	0.11	< 30
781674 Orig																							
781674 Dup																							
Method Blank																							

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS												
GXR-1 Meas														0.006	< 1	0.042	4.0	0.6	8	0.049	0.12	0.33	0.03
GXR-1 Cert														0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050
GXR-6 Meas														< 1	0.036	23.2	0.9	3	0.073	0.39	6.96	1.14	
GXR-6 Cert														0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	
GXR-6 Meas														< 1	0.034	24.7	1.1	4	0.074	0.37	7.00	1.17	
GXR-6 Cert														0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	
SDC-1 1F2 Assay (%) Meas		< 50	< 40	170				40	< 50			0.008	< 50										
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180				102	0.80			0.0103	290										
SDC-1 1F2 Assay (%) Meas		< 50	< 40	170				80	< 50			0.008	70										
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180				102	0.80			0.0103	290										
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	180			< 50	< 100	220	< 50	40	0.016	150										
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134										
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	170			< 50	< 100	210	< 50	40	0.015	140										
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134										
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas		< 50	< 40	140					140		20	0.005	< 50										
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144					148.00	00	18.0	0.007	38.0										
DNC-1a 1F2-assay Kamloops (%) Meas		< 50	< 40	140					150		20	0.005	< 50										

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS																	
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144					148.00 00		18.0	0.007	38.0										
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	40	< 20		< 50	< 100	140	< 50	10	0.010	110										
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110										
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	40	< 20		< 50	< 100	170	< 50	20	0.010	120										
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110										
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas	0.3	< 50	< 40	290	40		< 50	< 100	90	160	30	0.063	< 50										
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0										
GXR-1 1F2-assay Kamloops (%) Meas	0.2	< 50	< 40	300	30		< 50	< 100	90	170	30	0.064	< 50										
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0										
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay																							

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	TD-ICP	AR-MS																					
Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas										2630	10	0.006												
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655												
GBW 07238 1F2-assay Kamloops (%) Meas										2780	10	0.006												
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655												
GBW 07238 1F2-assay Kamloops (%) Meas																								
GBW 07238 1F2-assay Kamloops (%) Cert																								
GBW 07239 1F2-assay Kamloops (%) Meas										1020	40	0.012												

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	AR-MS																			
GBW 07239 1F2-assay Kamloops (%) Cert												34.2	0.012										
GBW 07239 1F2-assay Kamloops (%) Meas											1130	40	0.009										
GBW 07239 1F2-assay Kamloops (%) Cert											1000.00	34.2	0.012										
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas														< 1	0.064	23.1	0.7		0.034	1.34	2.87	0.46	
OREAS 922 (AQUA REGIA) Cert														0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376	
OREAS 922 (AQUA REGIA) Meas														< 1	0.067	21.1	0.7		0.028	1.30	2.80	0.45	
OREAS 922 (AQUA REGIA) Cert														0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376	
OREAS 923 (AQUA REGIA) Meas														< 1	0.060	23.4	0.8			1.41	2.83	0.36	
OREAS 923 (AQUA REGIA) Cert														0.684	0.061	23.4	0.61			1.43	2.80	0.322	
OREAS 923 (AQUA REGIA) Meas														< 1	0.063	22.3	0.7			1.39	2.81	0.39	
OREAS 923														0.684	0.061	23.4	0.61			1.43	2.80	0.322	

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS																						
(AQUA REGIA)																								
Cert																								
SdAR-M2 (U.S.G.S.) Meas																			11.9	4.9				
SdAR-M2 (U.S.G.S.) Cert																			17.9	6.6				
SdAR-M2 (U.S.G.S.) Meas																			12.3	5.1				
SdAR-M2 (U.S.G.S.) Cert																			17.9	6.6				
981112 Orig	< 0.1	< 50	< 40	330	< 20	0.6	< 50	< 100	120	< 50	20	0.014	90	0.172	< 1	0.117	20.0	1.0	4	0.019	0.77	2.83	0.13	
981112 Dup	< 0.1	< 50	< 40	360	< 20	0.6	< 50	< 100	120	< 50	20	0.022	100	0.160	< 1	0.105	18.5	1.1	4	0.018	0.70	2.48	0.12	
981126 Orig	< 0.1	< 50	< 40	190	< 20	0.6	< 50	< 100	130	< 50	20	0.044	130	0.117	< 1	0.130	29.1	0.7	< 1	0.022	0.31	2.88	0.09	
981126 Dup	< 0.1	< 50	< 40	180	120	0.6	< 50	< 100	140	< 50	20	0.045	140	0.109	< 1	0.131	28.8	0.5	1	0.021	0.30	2.82	0.09	
981139 Orig																	0.077	< 1	0.119	7.2	0.9	< 1	0.013	0.50
981139 Dup																	0.074	< 1	0.126	7.8	0.9	< 1	0.016	0.54
981151 Orig	0.1	< 50	< 40	210	< 20	0.5	< 50	< 100	130	< 50	10	0.015	100											
981151 Dup	0.1	< 50	< 40	220	20	0.5	< 50	< 100	130	< 50	10	0.015	100											
981153 Orig																	0.024	< 1	0.204	5.7	0.7	< 1	0.035	0.22
981153 Dup																	0.028	< 1	0.192	5.7	0.8	< 1	0.035	0.22
981165 Orig	< 0.1	< 50	< 40	250	< 20	0.6	< 50	< 100	100	< 50	20	0.093	110											
981165 Dup	< 0.1	< 50	< 40	250	< 20	0.3	< 50	< 100	70	< 50	20	0.094	50											
981176 Orig																	0.093	< 1	0.118	11.4	0.8	< 1	0.021	0.68
981176 Dup																	0.103	< 1	0.127	12.4	0.9	< 1	0.022	0.73
981190 Orig	0.4	< 50	< 40	320	< 20	0.6	< 50	< 100	170	< 50	30	0.072	110	0.142	< 1	0.278	13.4	1.4	< 1	0.050	0.99	3.12	0.32	
981190 Dup	0.4	< 50	< 40	320	< 20	0.5	< 50	< 100	160	< 50	30	0.071	110	0.141	< 1	0.261	12.5	1.3	< 1	0.047	0.94	2.94	0.30	
981202 Orig																	0.173	< 1	0.202	26.5	2.0	< 1	0.021	1.94
981202 Dup																	0.164	< 1	0.207	26.2	1.9	< 1	0.026	1.90
981203 Orig	1.3	< 50	< 40	60	< 20	0.7	< 50	< 100	160	< 50	20	0.011	130											
981203 Dup	1.4	< 50	< 40	60	< 20	0.7	< 50	< 100	160	< 50	20	0.011	130											
981216 Orig																	0.139	< 1	0.152	10.7	0.8	< 1	0.024	0.88
981216 Dup																	0.161	< 1	0.157	11.0	0.8	1	0.025	0.92
981228 Orig	0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	160	< 50	10	0.013	100											
981228 Dup	0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	160	< 50	10	0.013	100											
981232 Orig																	0.024	< 1	0.067	11.6	0.3	< 1	0.019	0.56
981232 Dup																	0.018	< 1	0.062	11.5	0.3	< 1	0.018	0.57
981246 Orig																	0.008	< 1	0.094	13.1	0.7	< 1	0.020	0.44
981246 Dup																	0.008	< 1	0.100	13.8	0.8	< 1	0.019	0.45
781657 Orig	< 0.1	< 50	< 40	280	< 20	0.5	< 50	< 100	90	< 50	10	0.015	70											
781657 Dup	< 0.1	< 50	< 40	270	< 20	0.5	< 50	< 100	90	< 50	10	0.014	70											
781660 Orig																	0.001	< 1	0.120	3.7	0.4	< 1	0.017	0.26
781660 Dup																	0.002	< 1	0.116	3.6	0.5	< 1	0.016	0.25
781671 Orig	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	70	< 50	10	0.015	50											

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
781671 Dup	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	70	< 50	10	0.016	< 50											
781674 Orig														0.007	< 1	0.170	8.8	0.9	< 1	0.018	0.37	1.89	0.19	
781674 Dup														0.008	< 1	0.161	8.4	0.7	< 1	0.018	0.36	1.79	0.18	
Method Blank														< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.010	< 0.01	< 0.01	< 0.01	

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
GXR-1 Meas	1410	0.78	0.4	70	6	854	24.1	8.3	36.8	1190	760	4.67		448	2.2	203	26.8	12.1	< 0.1	18.3	29.1	0.70	23.6
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0
GXR-6 Meas	0.17	0.14	25.1	155	72	1060	5.86	13.3	22.0	64.0	117	11.7		230	61.6	32.5	6.48	12.0	< 0.1	1.87	0.263	0.06	1.04
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
GXR-6 Meas	0.17	0.15	21.0	154	75	1050	5.59	14.2	21.5	64.8	127	10.5		221	64.4	33.5	6.62	12.1	< 0.1	1.85	0.277	0.06	1.02
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
DNC-1a 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
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GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Meas																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
SAR-M																							
(U.S.G.S.)1F2-																							
assay Kamloops																							
(%) Meas																							
SAR-M																							
(U.S.G.S.)1F2-																							
assay Kamloops																							
(%) Cert																							
OREAS 922	11.4	0.38	3.8	32	43	797	5.07	20.3	35.0	2250	255	7.91	0.1	5.5	30.0	15.2	20.2	8.7	0.5	0.65	0.526	0.24	3.99
(AQUA REGIA)																							
Meas																							
OREAS 922	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
(AQUA REGIA)																							
Cert																							
OREAS 922	12.9	0.37	3.9	32	44	757	5.40	18.9	34.2	2130	244	7.69	0.1	5.7	26.8	15.1	19.5	16.2	0.3	0.64	0.613	0.23	3.97
(AQUA REGIA)																							
Meas																							
OREAS 922	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
(AQUA REGIA)																							
Cert																							
OREAS 923	24.7	0.37	3.2	29	40	892	5.71	22.9	32.7	4350	334	7.84		6.9	25.1	13.9	18.3	21.9		0.82	1.59	0.41	6.25
(AQUA REGIA)																							
Meas																							
OREAS 923	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
(AQUA REGIA)																							
Cert																							
OREAS 923	23.2	0.37	3.5	31	40	882	6.39	22.1	32.2	4330	326	7.94		7.3	23.8	13.9	18.3	21.8		0.79	1.84	0.45	6.47
(AQUA REGIA)																							
Meas																							
OREAS 923	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
(AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas	0.97		1.7	15	8			12.3	45.6	239	725	3.28			17.5	19.8	15.9	6.0	2.3	13.5			
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3			
SdAR-M2 (U.S.G.S.) Meas	1.03		1.6	15	8			13.2	43.2	240	783	3.16			18.2	20.2	16.5	6.0	2.3	13.6			
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3			
981112 Orig	0.17	0.88	4.8	82	19	1990	3.64	12.8	14.9	14.8	191	9.63	< 0.1	10.2	15.7	116	9.65	1.3	1.4	0.75	0.118	0.03	0.78
981112 Dup	0.17	0.83	4.0	79	19	1920	3.51	12.0	14.0	13.2	168	8.18	< 0.1	9.2	14.2	108	9.02	0.8	1.1	0.71	0.728	0.03	0.71
981126 Orig	0.39	0.18	3.9	105	20	688	4.81	9.6	6.8	13.7	512	14.4	< 0.1	5.6	12.2	22.7	4.19	0.6	4.4	1.37	0.625	0.04	2.10
981126 Dup	0.38	0.17	3.9	97	19	699	4.58	9.7	6.6	13.2	503	14.0	< 0.1	5.7	11.8	21.8	4.05	0.8	4.8	1.33	0.625	0.04	2.16
981139 Orig	0.92	0.92	5.1	56	2	3010	4.44	21.5	3.0	427	1780	4.31	< 0.1	11.9	14.0	123	17.8	0.7	0.1	2.73	1.72	0.07	0.88
981139 Dup	0.94	0.95	5.2	59	2	3290	4.71	22.9	3.2	454	1860	4.57	< 0.1	12.5	14.6	129	18.9	0.7	< 0.1	3.02	1.40	0.07	0.96
981151 Orig																							
981151 Dup																							
981153 Orig	0.82	0.22	0.2	50	7	422	4.98	2.5	4.0	33.7	80.4	6.86	< 0.1	17.5	10.0	74.8	3.40	1.0	1.5	5.19	4.33	0.04	0.43
981153 Dup	0.87	0.22	< 0.1	50	7	427	5.01	2.5	3.9	34.4	81.8	5.08	< 0.1	18.5	11.6	79.5	3.45	0.4	1.4	5.56	4.39	0.04	0.62
981165 Orig																							
981165 Dup																							
981176 Orig	1.08	0.28	4.5	68	6	1860	5.38	11.2	6.1	66.0	425	7.55	< 0.1	20.6	22.8	42.1	10.6	0.8	0.5	12.0	2.76	0.18	0.60
981176 Dup	1.18	0.31	5.0	74	7	2040	5.83	12.1	6.6	71.0	459	8.20	< 0.1	22.0	24.9	46.5	11.6	1.0	0.6	13.0	3.01	0.19	0.69
981190 Orig	1.27	0.35	7.1	88	4	5380	10.1	55.7	4.4	668	839	9.28	0.1	9.4	17.2	119	17.4	2.8	0.3	6.40	0.885	0.09	0.48
981190 Dup	1.26	0.33	6.9	85	4	5110	9.50	52.1	4.2	648	808	8.79	0.2	9.4	16.2	111	16.5	2.6	0.3	5.89	0.880	0.09	0.51
981202 Orig	0.23	0.25	19.8	138	2	5020	9.08	59.9	7.1	85.9	427	11.8	0.2	14.4	35.8	43.7	29.1	5.3	< 0.1	6.73	0.381	0.05	0.54
981202 Dup	0.23	0.26	19.8	137	2	5110	9.10	59.7	7.0	84.9	421	12.1	0.1	14.5	37.2	45.7	29.4	4.2	< 0.1	6.86	0.304	0.06	0.75
981203 Orig																							
981203 Dup																							
981216 Orig	0.31	0.79	6.6	94	4	2350	5.03	15.4	3.5	42.2	209	10.4	< 0.1	16.2	14.3	117	13.2	1.0	0.9	2.33	0.259	0.06	1.01
981216 Dup	0.29	0.86	7.0	101	4	2400	5.20	15.8	3.6	42.7	218	10.9	< 0.1	17.4	15.0	124	13.8	1.4	1.3	2.50	0.292	0.06	1.11
981228 Orig																							
981228 Dup																							
981232 Orig	0.27	0.49	2.2	88	47	917	4.20	9.4	10.3	35.0	101	7.21	< 0.1	4.5	14.8	28.1	4.96	0.3	0.2	2.06	0.120	0.03	0.68
981232 Dup	0.27	0.47	2.3	89	48	882	4.12	9.1	10.4	33.9	100	7.24	< 0.1	4.0	12.5	26.3	4.79	0.6	0.2	1.90	0.032	0.03	0.62
981246 Orig	0.43	0.71	1.0	32	5	2000	2.98	7.6	5.0	64.8	539	3.04	< 0.1	8.5	15.4	65.4	27.3	3.1	0.8	3.67	0.617	0.06	0.56
981246 Dup	0.41	0.74	1.1	33	5	2010	2.99	7.8	5.0	65.0	538	3.42	< 0.1	8.4	15.3	65.0	27.0	2.7	0.8	3.65	0.714	0.05	0.51
781657 Orig																							
781657 Dup																							
781660 Orig	0.50	0.65	0.1	22	2	1140	1.82	3.9	4.2	18.3	145	5.76	< 0.1	0.3	15.9	101	4.20	0.7	0.4	1.18	0.044	0.02	0.30
781660 Dup	0.51	0.65	0.2	21	2	1120	1.81	3.9	2.2	18.0	142	5.53	< 0.1	0.7	16.6	102	4.15	0.8	0.4	1.24	0.054	0.02	0.33
781671 Orig																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm									
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
781671 Dup																							
781674 Orig	0.73	0.20	0.4	34	5	3540	3.54	11.0	5.2	104	240	5.56	< 0.1	7.6	20.3	32.4	10.0	1.7	0.4	3.20	0.336	0.05	0.86
781674 Dup	0.74	0.20	0.3	35	5	3320	3.40	10.6	5.0	102	232	5.45	< 0.1	7.8	20.0	31.0	9.59	1.3	0.3	3.11	0.311	0.05	0.88
Method Blank	< 0.02	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	0.1	0.01	0.3	0.05	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.02	0.06

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	84.3	13.1	2.65	235	4.8	9.66	2.52		5.48	1.8	16.4	0.3	3.4	0.6	3.0			0.4	1.7	0.2	0.1	< 0.05	128	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-6 Meas	1.85	0.10	3.72	961	10.9	31.3	0.11		10.9	2.1	0.2	0.5	2.1	0.3	1.5				0.8	0.1	0.3	< 0.05	< 0.1	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
GXR-6 Meas	1.85	0.07	3.78	959	10.9	31.6	0.10		11.3	2.2	0.2	0.5	2.0	0.3	1.4				0.9	0.1	0.3	< 0.05	< 0.1	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
SDC-1 1F2 Assay (%) Meas																								
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Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
DNC-1a 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
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GXR-1 1F2-assay Kamloops (%) Meas																								
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GXR-1 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
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GBW 07238 1F2-assay Kamloops (%) Meas																								
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GBW 07239 1F2-assay Kamloops (%) Meas																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
GBW 07239 1F2-assay Kamloops (%) Cert																								
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SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas																								
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert																								
OREAS 922 (AQUA REGIA) Meas	0.57		2.00	92.0	33.8	69.0	0.28	8.3	29.7	5.3	3.2		5.6	0.7							< 0.1		0.5	
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12	
OREAS 922 (AQUA REGIA) Meas	0.64		2.05	80.5	34.0	67.9	0.26	8.0	28.3	5.0	3.3		5.3	0.8							0.2		0.6	
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12	
OREAS 923 (AQUA REGIA) Meas	0.68		1.65	71.0	30.6	62.1	0.40	7.5	26.4	4.8	4.6		5.2	0.7							0.2		1.2	
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54							0.60		1.96	
OREAS 923 (AQUA REGIA) Meas	0.66		1.82	68.2	33.3	66.0	0.41	7.9	27.5	4.9	5.2		5.2	0.8							0.4		2.2	
OREAS 923	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54							0.60		1.96	

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm																				
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS																				
(AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas			0.78	104	38.1	83.1	4.85	9.1	31.9	5.2		0.5	4.7	0.7	3.1	0.8	1.8	0.3	1.5	0.2	0.1	< 0.05	1.0
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8
SdAR-M2 (U.S.G.S.) Meas			0.80	105	38.3	85.1	4.70	9.5	33.3	5.4		0.5	4.8	0.7	2.9	0.8	1.7	0.3	1.7	0.2	0.1	< 0.05	1.0
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8
981112 Orig	0.59	0.10	1.43	226	13.4	31.3	1.36	3.1	11.9	2.4	0.5	0.5	2.4	0.3	1.6	0.4	0.9	0.2	1.0	0.2	< 0.1	< 0.05	< 0.1
981112 Dup	0.50	0.08	1.24	210	12.5	29.1	1.31	2.9	11.4	2.2	0.8	0.5	2.2	0.3	1.5	0.4	0.9	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981126 Orig	0.42	0.14	1.74	145	8.7	17.4	2.51	2.0	7.22	1.3	0.3	0.2	1.2	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
981126 Dup	0.37	0.13	1.63	146	8.7	17.3	2.58	2.0	7.26	1.3	0.5	0.2	1.2	0.2	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
981139 Orig	0.88	0.20	2.69	440	9.6	25.5	7.79	3.0	13.9	3.4	0.3	0.8	4.0	0.6	2.9	0.8	1.7	0.3	1.8	0.2	< 0.1	< 0.05	< 0.1
981139 Dup	0.90	0.20	2.73	467	10.2	26.7	8.30	3.2	14.3	3.5	0.5	0.9	4.1	0.6	3.0	0.8	1.9	0.3	1.8	0.3	< 0.1	< 0.05	< 0.1
981151 Orig																							
981151 Dup																							
981153 Orig	0.34	1.20	0.58	50.2	9.0	18.8	0.89	2.3	8.73	1.5	1.0	0.3	1.3	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981153 Dup	0.34	1.27	0.75	254	9.8	20.2	0.90	2.4	9.08	1.6	1.1	0.3	1.4	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
981165 Orig																							
981165 Dup																							
981176 Orig	0.57	1.33	2.36	94.1	12.9	28.4	2.21	3.4	13.4	2.6	1.0	0.6	2.7	0.4	2.0	0.5	1.2	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
981176 Dup	0.67	1.54	2.64	98.9	14.2	30.9	2.40	3.7	14.4	2.8	1.4	0.6	2.9	0.5	2.2	0.6	1.3	0.2	1.1	0.1	< 0.1	< 0.05	< 0.1
981190 Orig	0.60	0.70	2.83	125	22.6	52.5	3.04	5.6	22.3	4.5	2.8	1.1	4.8	0.7	3.4	0.9	2.1	0.4	2.0	0.3	< 0.1	< 0.05	0.1
981190 Dup	0.60	0.57	2.74	117	21.7	50.3	2.89	5.5	21.8	4.5	2.8	1.1	4.8	0.7	3.2	0.8	2.0	0.4	1.9	0.3	< 0.1	< 0.05	< 0.1
981202 Orig	0.63	0.47	5.72	120	22.5	55.6	1.90	6.1	24.7	5.4	3.4	1.2	6.4	1.0	4.7	1.3	3.0	0.5	2.7	0.4	< 0.1	< 0.05	< 0.1
981202 Dup	0.58	0.44	5.49	120	22.4	56.2	1.81	6.0	24.9	5.3	3.6	1.2	6.3	1.0	4.8	1.3	3.0	0.6	2.6	0.4	< 0.1	< 0.05	< 0.1
981203 Orig																							
981203 Dup																							
981216 Orig	0.47	0.43	2.05	61.0	13.7	32.9	0.85	3.7	14.5	3.0	0.3	0.7	3.5	0.6	2.6	0.7	1.4	0.3	1.1	0.1	< 0.1	< 0.05	< 0.1
981216 Dup	0.55	0.51	2.24	63.0	14.2	34.5	0.86	3.9	15.4	3.3	1.0	0.8	3.7	0.6	2.7	0.7	1.4	0.3	1.1	0.2	< 0.1	< 0.05	< 0.1
981228 Orig																							
981228 Dup																							
981232 Orig	0.38	0.08	1.12	264	5.0	10.9	0.49	1.3	5.00	1.1	0.2	0.3	1.4	0.2	1.0	0.3	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981232 Dup	0.31	0.03	0.86	249	4.7	10.5	0.48	1.2	4.77	1.0	0.1	0.3	1.3	0.2	0.9	0.2	0.6	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
981246 Orig	0.28	0.21	0.96	317	22.3	37.4	5.05	5.8	24.0	5.0	0.9	1.4	6.9	1.0	4.5	1.3	2.8	0.5	2.4	0.4	< 0.1	< 0.05	< 0.1
981246 Dup	0.27	0.23	0.94	321	21.8	36.2	4.78	5.7	23.1	4.8	1.1	1.3	6.5	0.9	4.3	1.2	2.7	0.5	2.3	0.3	< 0.1	< 0.05	< 0.1
781657 Orig																							
781657 Dup																							
781660 Orig	0.49	0.09	0.63	118	4.9	11.2	0.98	1.2	4.50	0.9	< 0.1	0.3	1.1	0.2	0.9	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781660 Dup	0.51	0.07	0.74	128	4.8	11.0	1.05	1.1	4.38	0.8	< 0.1	0.2	1.2	0.2	0.8	0.2	0.5	0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
781671 Orig																							

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
781671 Dup																							
781674 Orig	1.15	0.17	3.24	125	15.5	43.1	0.86	4.2	16.7	3.4	< 0.1	0.8	3.6	0.5	2.3	0.6	1.3	0.3	1.2	0.2	< 0.1	< 0.05	< 0.1
781674 Dup	1.12	0.10	3.26	126	15.4	42.2	0.69	4.2	16.2	3.3	< 0.1	0.8	3.8	0.5	2.2	0.6	1.2	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1
Method Blank	< 0.02	< 0.02	< 0.02	4.3	< 0.5	0.02	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
GXR-1 Meas		2260	0.29	612	1.8	26.6	3660
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-6 Meas		45.1	2.15	93.5	4.2	0.9	70
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas		46.6	2.01	95.8	4.3	0.9	60
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
DNC-1a 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
GBW 07239 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert							
OREAS 922 (AQUA REGIA) Meas			0.18	57.0	14.8	2.4	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 922 (AQUA REGIA) Meas			0.17	55.4	14.4	2.4	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 923 (AQUA REGIA) Meas			0.18	80.8	14.8	2.3	
OREAS 923 (AQUA REGIA) Cert			0.12	81	14.3	1.80	
OREAS 923 (AQUA REGIA) Meas			0.19	77.8	15.7	2.5	
OREAS 923			0.12	81	14.3	1.80	

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(AQUA REGIA)							
Cert							
SdAR-M2 (U.S.G.S.) Meas				645	10.7	1.6	1370
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas				691	11.2	1.7	1360
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
981112 Orig	< 0.001	1.7	0.09	22.0	1.3	1.6	80
981112 Dup	< 0.001	4.3	0.08	21.7	1.0	1.5	70
981126 Orig	0.003	< 0.5	0.12	28.9	2.1	0.8	40
981126 Dup	0.003	1.9	0.11	29.2	1.7	0.8	80
981139 Orig	0.002	25.4	0.13	76.7	1.2	0.9	30
981139 Dup	< 0.001	21.7	0.15	77.6	1.2	0.9	50
981151 Orig							
981151 Dup							
981153 Orig	0.001	4.8	0.11	35.4	0.2	1.1	60
981153 Dup	0.009	4.8	0.12	32.9	< 0.1	1.1	110
981165 Orig							
981165 Dup							
981176 Orig	0.007	49.0	0.25	569	1.0	1.6	40
981176 Dup	0.009	24.7	0.29	615	1.1	1.7	60
981190 Orig	0.004	9.9	0.16	309	4.6	4.1	30
981190 Dup	0.004	12.2	0.15	301	4.5	4.0	10
981202 Orig	0.007	17.3	0.24	56.9	5.0	1.9	40
981202 Dup	0.004	11.9	0.25	56.9	4.8	1.8	10
981203 Orig							
981203 Dup							
981216 Orig	0.003	4.9	0.11	118	0.9	1.2	40
981216 Dup	0.002	4.0	0.11	125	0.8	1.3	50
981228 Orig							
981228 Dup							
981232 Orig	0.008	5.6	0.17	18.9	0.1	0.6	20
981232 Dup	0.006	6.9	0.15	16.9	0.3	0.6	20
981246 Orig	0.003	9.4	0.15	152	0.6	17.0	40
981246 Dup	0.002	9.8	0.13	139	0.5	16.2	30
781657 Orig							
781657 Dup							
781660 Orig	0.009	2.3	0.13	18.4	0.6	0.9	10
781660 Dup	0.006	6.4	0.14	19.2	0.6	0.9	50
781671 Orig							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
781671 Dup							
781674 Orig	0.004	9.2	0.20	44.7	0.5	1.7	40
781674 Dup	0.006	13.1	0.21	45.0	0.5	1.7	70
Method Blank	0.002	< 0.5	< 0.02	0.40	< 0.1	< 0.1	20

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-17
Invoice No.: A17-07491
Invoice Date: 09-Aug-17
Your Reference: JOY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

151 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)

Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-07491

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Notes:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
 9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
 TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
741451	3.8	8.1	< 30	6080	< 10	< 20	0.9	9	20	30	0.052	6.4	30	< 10	1.3	30	1.4	0.604	< 0.001	0.8	< 0.001	0.30	5080
741452	< 3.0	6.2	< 30	1450	< 10	< 20	1.1	< 3	20	30	0.010	6.1	10	< 10	1.1	30	1.2	0.427	< 0.001	1.0	< 0.001	0.24	30
741453	< 3.0	5.5	< 30	850	< 10	< 20	0.6	< 3	< 10	30	0.006	5.1	20	< 10	1.6	10	0.5	0.193	< 0.001	0.9	< 0.001	0.38	360
741454	< 3.0	4.8	< 30	880	< 10	< 20	0.8	< 3	< 10	30	0.006	5.2	< 10	< 10	1.5	< 10	0.6	0.097	< 0.001	0.8	< 0.001	0.35	380
741455	< 3.0	4.9	< 30	880	< 10	< 20	0.5	< 3	< 10	30	0.002	4.8	20	< 10	1.5	10	0.5	0.147	< 0.001	1.0	< 0.001	0.30	70
741456	< 3.0	6.4	< 30	880	< 10	< 20	0.6	< 3	< 10	40	0.003	4.5	20	< 10	1.5	20	0.5	0.060	< 0.001	1.2	< 0.001	0.18	80
741457	< 3.0	6.6	< 30	810	< 10	< 20	0.4	< 3	< 10	50	0.004	8.7	20	< 10	1.3	20	0.7	0.086	< 0.001	0.7	< 0.001	0.34	170
741458	< 3.0	6.7	< 30	1360	< 10	< 20	0.4	< 3	< 10	30	0.006	8.6	30	< 10	1.7	10	0.5	0.059	< 0.001	0.9	< 0.001	0.40	150
741459	< 3.0	6.5	< 30	900	< 10	< 20	0.4	3	< 10	40	0.002	5.7	20	10	1.6	20	0.4	0.047	< 0.001	0.8	< 0.001	0.26	200
741460	< 3.0	6.8	< 30	720	< 10	< 20	0.4	< 3	< 10	60	0.005	5.8	20	< 10	1.6	20	0.6	0.048	< 0.001	0.9	< 0.001	0.16	70
741461	3.2	5.9	< 30	760	< 10	< 20	0.3	< 3	< 10	20	0.002	3.0	10	< 10	2.3	10	0.6	0.042	< 0.001	0.7	< 0.001	0.09	150
741462	< 3.0	7.9	< 30	1020	< 10	< 20	0.2	< 3	< 10	10	0.003	4.1	20	< 10	2.7	10	0.6	0.040	< 0.001	0.7	< 0.001	0.10	100
741463	< 3.0	7.7	< 30	1160	< 10	< 20	0.3	< 3	< 10	10	0.005	3.5	20	< 10	2.8	< 10	0.6	0.061	< 0.001	0.6	< 0.001	0.16	190
741464	< 3.0	4.4	< 30	840	< 10	< 20	0.9	< 3	< 10	60	0.004	3.8	< 10	< 10	1.5	20	0.7	0.065	< 0.001	1.3	< 0.001	0.14	40
741465	< 3.0	7.2	< 30	780	< 10	< 20	0.8	< 3	< 10	60	0.002	2.8	10	< 10	1.4	20	0.7	0.063	< 0.001	1.5	0.001	0.07	50
741466	< 3.0	6.4	< 30	720	< 10	< 20	0.6	< 3	< 10	90	0.002	3.4	20	< 10	1.4	< 10	0.4	0.034	< 0.001	1.5	< 0.001	0.14	40
741467	< 3.0	5.6	< 30	640	< 10	< 20	0.9	< 3	< 10	70	0.001	3.3	20	< 10	1.3	20	0.5	0.048	< 0.001	1.6	0.001	0.09	< 30
741468	< 3.0	6.6	< 30	720	< 10	< 20	0.9	< 3	< 10	50	0.001	2.3	20	< 10	1.4	20	0.5	0.080	< 0.001	1.5	< 0.001	0.12	< 30
741469	< 3.0	6.4	< 30	710	< 10	< 20	1.0	< 3	< 10	60	0.005	3.8	10	< 10	1.3	10	0.4	0.091	< 0.001	1.2	< 0.001	0.25	40
741470	< 3.0	6.8	< 30	710	< 10	< 20	1.4	< 3	< 10	40	< 0.001	3.6	20	< 10	1.4	< 10	0.4	0.098	< 0.001	1.2	< 0.001	0.06	90
741471	< 3.0	9.3	< 30	620	< 10	< 20	0.3	< 3	10	10	0.003	5.2	20	< 10	2.2	40	1.3	0.074	< 0.001	0.8	< 0.001	0.05	< 30
741472	< 3.0	8.0	< 30	400	< 10	< 20	1.2	< 3	< 10	30	0.002	5.4	30	< 10	1.7	20	0.4	0.123	< 0.001	1.8	< 0.001	0.15	< 30
741473	< 3.0	9.0	< 30	820	< 10	< 20	1.5	< 3	< 10	50	0.003	5.2	30	< 10	1.5	20	0.6	0.122	< 0.001	1.4	< 0.001	0.21	60
741474	< 3.0	8.0	< 30	740	< 10	< 20	1.7	< 3	< 10	40	0.002	4.3	20	< 10	1.4	20	0.5	0.185	< 0.001	1.2	< 0.001	0.19	< 30
741475	< 3.0	8.2	< 30	990	< 10	< 20	1.6	12	20	40	0.004	4.7	20	< 10	1.7	20	0.7	0.437	< 0.001	1.1	< 0.001	0.22	70
741476	< 3.0	7.9	< 30	700	< 10	< 20	1.9	< 3	10	40	0.007	4.3	20	< 10	1.2	20	0.6	0.604	< 0.001	1.1	0.001	0.16	270
741477	< 3.0	5.3	< 30	780	< 10	< 20	1.5	< 3	< 10	50	0.002	3.8	10	< 10	1.2	30	1.0	0.152	< 0.001	1.6	0.002	0.06	< 30
741478	< 3.0	6.0	< 30	810	< 10	< 20	1.0	< 3	< 10	50	0.002	3.9	20	< 10	1.5	30	0.7	0.085	< 0.001	1.6	< 0.001	0.05	40
741479	< 3.0	6.9	< 30	850	< 10	< 20	1.1	7	10	40	0.008	3.9	20	< 10	1.2	30	0.6	0.086	< 0.001	1.5	< 0.001	0.07	40
741480	< 3.0	7.7	< 30	470	< 10	< 20	0.9	< 3	< 10	60	0.004	6.5	30	< 10	1.5	30	0.5	0.099	< 0.001	1.7	0.001	0.11	50
741481	< 3.0	5.8	< 30	550	< 10	< 20	0.6	< 3	< 10	60	< 0.001	3.4	20	< 10	1.0	< 10	0.3	0.038	< 0.001	1.4	< 0.001	0.04	< 30
741482	< 3.0	7.8	< 30	730	< 10	< 20	1.0	< 3	< 10	50	0.004	4.0	20	< 10	1.4	20	0.5	0.106	< 0.001	1.5	< 0.001	0.17	30
741483	< 3.0	6.7	< 30	530	< 10	< 20	0.6	< 3	< 10	80	< 0.001	2.7	20	< 10	1.3	20	0.4	0.051	< 0.001	1.5	< 0.001	0.09	< 30
741484	< 3.0	7.3	< 30	810	< 10	< 20	1.1	< 3	< 10	50	< 0.001	4.0	20	< 10	1.5	20	0.4	0.106	< 0.001	1.5	< 0.001	0.17	< 30
741485	< 3.0	5.7	< 30	700	< 10	< 20	0.9	< 3	< 10	80	0.003	4.7	20	< 10	1.3	30	0.7	0.080	< 0.001	1.5	< 0.001	0.14	< 30
741486	< 3.0	4.0	< 30	830	< 10	< 20	1.0	< 3	< 10	50	0.002	2.6	20	< 10	1.4	10	0.5	0.058	< 0.001	1.6	< 0.001	0.02	< 30
741487	< 3.0	6.6	< 30	620	< 10	< 20	1.0	< 3	< 10	10	0.003	5.0	10	< 10	1.7	< 10	0.6	0.183	< 0.001	0.9	< 0.001	0.27	150
741488	< 3.0	7.3	< 30	790	< 10	< 20	0.3	< 3	< 10	10	0.002	4.0	20	< 10	2.4	< 10	0.2	0.067	< 0.001	0.4	< 0.001	0.28	< 30
741489	< 3.0	6.4	< 30	620	< 10	< 20	0.8	< 3	< 10	40	0.004	4.7	20	< 10	1.5	10	0.4	0.073	< 0.001	0.9	< 0.001	0.44	60
741490	< 3.0	6.9	< 30	790	< 10	< 20	0.5	< 3	< 10	70	0.002	4.2	20	< 10	1.6	20	0.7	0.105	< 0.001	1.5	< 0.001	0.28	< 30
741491	< 3.0	6.5	< 30	1060	< 10	< 20	0.4	< 3	< 10	20	0.003	3.5	10	< 10	2.0	< 10	0.4	0.324	< 0.001	0.8	< 0.001	0.37	50
741492	< 3.0	8.3	< 30	1030	< 10	< 20	0.8	< 3	< 10	30	0.004	4.6	20	< 10	2.3	10	0.7	0.371	< 0.001	1.0	< 0.001	0.33	300

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
741493	< 3.0	6.6	< 30	740	< 10	< 20	1.1	< 3	< 10	20	0.010	5.4	20	< 10	1.3	< 10	0.5	0.095	< 0.001	0.9	< 0.001	0.34	90	
741494	< 3.0	7.7	< 30	960	< 10	< 20	0.5	< 3	< 10	< 10	0.005	5.1	10	< 10	2.0	10	0.7	0.082	< 0.001	1.2	< 0.001	0.33	80	
741495	< 3.0	5.7	< 30	670	< 10	< 20	1.2	< 3	< 10	30	0.009	4.5	10	< 10	1.4	< 10	0.4	0.094	< 0.001	1.0	< 0.001	0.15	70	
741496	< 3.0	7.3	< 30	710	< 10	< 20	1.0	< 3	< 10	50	0.004	4.1	20	< 10	1.3	10	0.4	0.064	< 0.001	1.0	< 0.001	0.17	90	
741497	< 3.0	8.3	< 30	730	< 10	< 20	0.5	< 3	< 10	40	0.003	4.6	20	< 10	1.5	10	0.5	0.050	< 0.001	0.9	< 0.001	0.20	90	
741498	< 3.0	7.6	< 30	680	< 10	< 20	0.5	< 3	< 10	60	0.003	4.6	20	< 10	1.4	10	0.5	0.044	< 0.001	1.0	< 0.001	0.14	80	
741499	< 3.0	5.9	< 30	750	< 10	< 20	0.7	< 3	< 10	40	0.005	4.0	20	< 10	1.5	10	0.4	0.055	< 0.001	0.9	< 0.001	0.11	110	
741500	< 3.0	6.5	< 30	660	< 10	< 20	0.8	< 3	< 10	70	0.002	4.6	20	< 10	1.3	20	0.5	0.058	< 0.001	1.2	< 0.001	0.23	30	
745914	< 3.0	7.0	< 30	370	< 10	< 20	2.2	< 3	10	60	0.002	3.4	20	< 10	0.8	10	1.4	0.073	< 0.001	1.9	0.002	0.08	< 30	
745915	< 3.0	7.6	< 30	680	< 10	< 20	3.3	< 3	20	70	0.015	6.1	20	< 10	1.3	30	2.1	0.119	< 0.001	1.7	0.003	0.19	< 30	
718951	< 3.0	8.0	< 30	710	< 10	< 20	1.6	4	< 10	20	0.003	4.1	10	< 10	1.3	< 10	0.4	0.096	< 0.001	1.4	< 0.001	0.17	< 30	
718952	< 3.0	7.6	< 30	710	< 10	< 20	1.6	< 3	< 10	30	0.003	5.0	30	< 10	1.3	20	0.5	0.124	< 0.001	1.3	< 0.001	0.20	90	
718953	< 3.0	7.8	< 30	690	< 10	< 20	1.3	< 3	10	10	0.003	5.6	20	< 10	1.5	20	1.0	0.270	< 0.001	1.0	< 0.001	0.26	200	
718954	< 3.0	7.9	< 30	790	< 10	< 20	2.9	6	10	< 10	0.011	7.3	20	< 10	1.9	10	1.0	0.412	< 0.001	1.1	< 0.001	0.20	340	
718955	3.1	7.1	< 30	780	< 10	< 20	1.5	5	30	< 10	0.016	6.2	20	< 10	2.0	20	1.0	0.401	< 0.001	0.8	0.002	0.24	320	
718956	< 3.0	9.1	< 30	1060	< 10	< 20	1.4	7	< 10	20	0.011	3.7	20	< 10	1.5	40	0.8	0.101	< 0.001	0.7	< 0.001	0.27	180	
718957	< 3.0	8.4	30	490	< 10	< 20	0.5	< 3	< 10	40	0.002	3.9	20	< 10	1.5	10	0.4	0.049	< 0.001	1.3	< 0.001	0.22	60	
718958	< 3.0	7.5	< 30	760	< 10	< 20	0.8	< 3	< 10	20	0.003	3.4	30	< 10	1.4	< 10	0.4	0.060	< 0.001	0.7	< 0.001	0.18	110	
718959	< 3.0	4.8	< 30	700	< 10	< 20	0.4	< 3	< 10	20	0.002	3.8	20	< 10	1.2	< 10	0.4	0.058	< 0.001	0.8	< 0.001	0.20	80	
718960	< 3.0	4.1	< 30	720	< 10	< 20	0.5	< 3	< 10	30	0.003	5.4	20	< 10	1.2	< 10	0.3	0.059	< 0.001	0.8	< 0.001	0.32	140	
718961	< 3.0	4.6	< 30	620	< 10	< 20	0.6	< 3	< 10	40	0.002	4.1	20	< 10	1.3	< 10	0.2	0.083	< 0.001	1.1	< 0.001	0.20	80	
718962	< 3.0	7.0	< 30	740	< 10	< 20	0.8	< 3	< 10	20	0.003	4.2	20	< 10	1.5	10	0.5	0.094	< 0.001	1.4	< 0.001	0.20	50	
718963	< 3.0	7.1	< 30	680	< 10	< 20	0.7	< 3	< 10	20	0.003	5.5	20	< 10	1.6	< 10	0.6	0.214	< 0.001	0.9	< 0.001	0.47	220	
718964	< 3.0	8.7	< 30	810	< 10	< 20	1.4	< 3	10	20	0.002	5.3	20	< 10	2.0	20	1.6	0.351	< 0.001	0.9	< 0.001	0.30	70	
718965	< 3.0	6.7	< 30	630	< 10	< 20	1.5	< 3	< 10	20	0.004	4.8	20	< 10	2.3	20	1.1	0.245	< 0.001	0.6	< 0.001	0.11	90	
718966	< 3.0	8.7	< 30	1110	< 10	< 20	0.8	< 3	20	20	0.010	7.4	20	< 10	3.3	20	0.9	0.276	< 0.001	1.0	< 0.001	0.30	940	
718967	< 3.0	4.6	< 30	1300	< 10	< 20	0.9	3	20	20	0.003	3.6	< 10	< 10	1.2	< 10	0.3	0.582	< 0.001	0.7	< 0.001	0.67	280	
718968	< 3.0	6.6	< 30	660	< 10	< 20	0.8	< 3	< 10	20	0.003	4.9	10	< 10	1.6	10	0.4	0.103	< 0.001	1.2	< 0.001	0.30	60	
718969	< 3.0	7.3	< 30	580	< 10	< 20	0.9	< 3	< 10	30	0.011	5.8	20	< 10	1.6	< 10	0.5	0.204	< 0.001	0.9	< 0.001	0.41	100	
718970	< 3.0	4.3	< 30	590	< 10	< 20	0.6	< 3	< 10	20	0.002	3.9	20	< 10	1.2	< 10	0.3	0.114	< 0.001	1.1	< 0.001	0.25	50	
718971	< 3.0	6.3	< 30	830	< 10	< 20	1.0	< 3	< 10	20	0.002	3.5	20	< 10	1.6	10	0.3	0.116	< 0.001	1.5	< 0.001	0.17	30	
718972	< 3.0	6.7	< 30	710	< 10	< 20	0.8	< 3	< 10	20	0.002	3.4	20	< 10	1.6	10	0.5	0.083	< 0.001	1.4	< 0.001	0.16	40	
718973	< 3.0	7.9	< 30	720	< 10	< 20	2.8	< 3	20	220	0.007	5.7	20	< 10	1.4	20	1.7	0.190	< 0.001	1.3	0.003	0.19	60	
718974	< 3.0	7.0	< 30	580	< 10	< 20	1.6	< 3	< 10	100	0.002	4.4	10	< 10	1.2	< 10	1.0	0.099	< 0.001	0.9	0.001	0.16	50	
718975	< 3.0	7.7	< 30	710	< 10	< 20	3.9	< 3	20	280	0.004	6.2	20	< 10	1.2	10	2.2	0.231	< 0.001	1.3	0.002	0.16	40	
718976	< 3.0	7.3	< 30	610	< 10	< 20	2.9	< 3	20	210	0.012	5.1	20	< 10	1.1	20	2.1	0.201	< 0.001	1.0	0.003	0.25	50	
718977	< 3.0	7.4	< 30	660	< 10	< 20	4.3	< 3	30	300	0.011	6.1	20	< 10	1.0	20	2.6	0.283	< 0.001	1.0	0.005	0.18	40	
718978	< 3.0	7.6	< 30	710	< 10	< 20	2.7	< 3	70	190	0.029	7.1	20	< 10	1.2	20	2.2	0.302	< 0.001	1.0	0.004	0.20	80	
718979	< 3.0	6.7	< 30	470	< 10	< 20	2.6	< 3	30	340	0.009	6.5	20	< 10	0.9	10	1.8	0.257	< 0.001	0.5	0.003	0.29	90	
718980	< 3.0	8.2	< 30	820	< 10	< 20	3.4	< 3	30	230	0.026	6.6	20	< 10	1.2	20	2.5	0.261	< 0.001	1.1	0.004	0.13	90	
718981	< 3.0	8.2	< 30	520	< 10	< 20	4.0	< 3	50	290	0.030	7.7	20	< 10	0.9	20	3.3	0.406	< 0.001	0.8	0.007	0.19	150	
718982	< 3.0	6.2	< 30	340	< 10	< 20	1.4	< 3	20	130	0.008	6.5	10	< 10	0.8	< 10	0.9	0.264	< 0.001	0.7	< 0.001	0.31	50	

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
718983	< 3.0	6.6	< 30	560	< 10	< 20	1.8	< 3	< 10	110	0.007	5.1	20	< 10	1.5	20	0.9	0.143	< 0.001	1.1	0.001	0.16	90
718984	< 3.0	7.2	< 30	760	< 10	< 20	1.5	5	< 10	40	0.012	5.5	30	< 10	2.0	10	0.6	0.134	< 0.001	0.9	< 0.001	0.21	120
718985	< 3.0	7.6	< 30	810	< 10	< 20	1.0	< 3	< 10	50	0.002	4.7	10	< 10	2.1	< 10	0.4	0.101	< 0.001	1.0	< 0.001	0.21	70
718986	< 3.0	8.1	< 30	1010	< 10	< 20	1.8	< 3	20	60	0.012	5.1	20	< 10	2.6	10	1.0	0.292	< 0.001	1.2	< 0.001	0.21	180
718987	< 3.0	9.9	< 30	920	< 10	< 20	0.9	< 3	10	20	0.009	4.6	20	< 10	2.2	20	1.4	0.222	< 0.001	0.5	< 0.001	0.33	120
718988	< 3.0	8.3	< 30	1030	< 10	< 20	1.1	< 3	10	30	0.007	5.3	10	< 10	2.4	10	0.9	0.216	< 0.001	1.3	0.001	0.26	100
718989	< 3.0	8.4	< 30	1090	< 10	< 20	1.8	< 3	< 10	20	0.013	5.6	20	< 10	2.3	10	1.0	0.261	< 0.001	1.5	< 0.001	0.20	100
718990	< 3.0	8.8	< 30	850	< 10	< 20	2.3	< 3	< 10	40	0.011	5.3	20	< 10	1.9	20	1.0	0.314	< 0.001	1.3	< 0.001	0.22	90
718991	3.2	9.6	< 30	2560	< 10	< 20	3.7	3	50	< 10	0.013	9.7	30	< 10	1.9	20	1.4	0.437	< 0.001	0.4	< 0.001	0.20	170
718992	< 3.0	9.5	< 30	1430	< 10	< 20	1.6	< 3	20	< 10	0.015	7.3	20	< 10	2.8	< 10	0.9	0.274	< 0.001	0.7	< 0.001	0.19	210
718993	< 3.0	9.3	< 30	1010	< 10	< 20	2.1	< 3	20	< 10	0.016	7.0	10	< 10	2.1	10	1.1	0.346	< 0.001	0.9	< 0.001	0.18	100
718994	< 3.0	7.1	< 30	550	< 10	< 20	0.7	< 3	< 10	20	0.004	4.7	10	< 10	2.0	20	0.8	0.154	< 0.001	1.4	< 0.001	0.27	290
718995	< 3.0	10.4	< 30	870	< 10	< 20	1.0	8	60	20	0.038	6.5	20	< 10	2.8	20	0.9	0.415	0.001	0.9	< 0.001	0.25	320
718996	< 3.0	7.6	< 30	670	< 10	< 20	0.6	< 3	< 10	30	0.005	4.8	10	< 10	1.9	10	0.6	0.120	< 0.001	0.9	< 0.001	0.29	110
718997	< 3.0	8.2	< 30	700	< 10	< 20	1.1	< 3	< 10	30	0.003	4.4	20	< 10	1.5	10	0.6	0.130	< 0.001	1.0	< 0.001	0.24	80
718998	< 3.0	7.9	< 30	560	< 10	< 20	0.7	< 3	< 10	30	0.004	4.4	20	< 10	1.4	10	0.6	0.120	< 0.001	1.0	< 0.001	0.29	70
718999	< 3.0	7.4	< 30	640	< 10	< 20	1.0	< 3	< 10	30	0.004	4.8	20	< 10	1.5	10	0.6	0.115	< 0.001	0.8	< 0.001	0.25	100
719000	< 3.0	7.1	< 30	730	< 10	< 20	0.7	< 3	< 10	50	0.002	3.1	20	< 10	1.5	< 10	0.4	0.059	< 0.001	0.7	< 0.001	0.25	90
745916	< 3.0	6.3	< 30	350	< 10	< 20	2.1	< 3	< 10	70	0.002	3.2	20	< 10	0.7	10	1.3	0.067	< 0.001	1.8	0.002	0.07	< 30
745917	< 3.0	8.3	< 30	670	< 10	< 20	3.2	< 3	20	60	0.013	6.1	30	< 10	1.3	30	2.0	0.118	< 0.001	1.6	0.003	0.20	< 30
960350	< 3.0	7.7	< 30	820	< 10	< 20	1.2	< 3	< 10	30	0.005	5.1	20	< 10	1.7	10	0.8	0.181	< 0.001	1.3	< 0.001	0.20	110
960351	< 3.0	7.0	< 30	660	< 10	< 20	1.2	< 3	< 10	20	0.002	4.0	20	< 10	1.7	10	0.7	0.120	< 0.001	1.4	< 0.001	0.16	80
960352	< 3.0	8.8	< 30	720	< 10	< 20	1.6	< 3	< 10	20	0.005	4.8	20	< 10	1.7	10	0.8	0.174	< 0.001	1.5	< 0.001	0.18	60
960353	< 3.0	7.0	< 30	640	< 10	< 20	0.5	< 3	10	20	0.002	4.9	20	< 10	1.5	< 10	0.4	0.490	< 0.001	1.1	< 0.001	0.45	60
960354	< 3.0	7.0	30	650	< 10	< 20	0.6	< 3	10	90	0.002	5.3	20	< 10	1.6	10	0.5	0.286	< 0.001	0.9	< 0.001	0.38	80
960355	< 3.0	6.2	< 30	900	< 10	< 20	0.8	< 3	20	20	0.003	5.4	20	< 10	1.9	< 10	0.4	0.530	< 0.001	1.0	< 0.001	0.53	200
960356	< 3.0	8.2	< 30	860	< 10	< 20	0.8	< 3	< 10	20	0.005	4.7	20	< 10	2.0	10	0.8	0.273	< 0.001	1.3	< 0.001	0.22	100
960357	< 3.0	8.6	< 30	860	< 10	< 20	0.9	< 3	< 10	20	0.008	5.1	30	< 10	2.2	20	0.9	0.248	< 0.001	1.2	< 0.001	0.18	460
960358	< 3.0	9.3	< 30	780	< 10	< 20	1.1	< 3	< 10	10	0.005	5.3	10	< 10	2.1	20	1.0	0.260	< 0.001	1.3	< 0.001	0.20	110
960359	< 3.0	6.5	< 30	750	< 10	< 20	0.7	< 3	< 10	< 10	0.008	5.5	20	< 10	2.0	10	0.7	0.091	0.001	1.0	< 0.001	0.29	140
960360	< 3.0	9.6	< 30	810	< 10	< 20	0.7	< 3	< 10	20	0.009	7.3	30	< 10	2.1	10	0.8	0.105	< 0.001	1.0	< 0.001	0.31	140
960361	< 3.0	8.8	< 30	910	< 10	< 20	1.3	< 3	10	20	0.047	5.0	20	< 10	2.6	20	0.9	0.364	< 0.001	1.2	< 0.001	0.17	410
960362	< 3.0	8.5	< 30	900	< 10	< 20	0.8	< 3	10	10	0.002	4.8	20	< 10	1.9	10	0.5	1.42	< 0.001	0.9	< 0.001	0.32	120
960363	< 3.0	9.8	< 30	900	< 10	< 20	0.9	< 3	10	20	0.004	4.7	20	< 10	2.5	20	1.2	0.212	< 0.001	1.2	< 0.001	0.19	40
960364	< 3.0	8.3	< 30	680	< 10	< 20	0.8	< 3	< 10	20	0.002	4.3	10	< 10	1.9	10	0.9	0.277	< 0.001	1.1	< 0.001	0.29	< 30
960365	< 3.0	7.4	< 30	600	< 10	< 20	0.9	< 3	< 10	20	0.001	3.9	20	< 10	1.7	10	0.7	0.117	< 0.001	0.9	< 0.001	0.34	30
960366	< 3.0	7.6	< 30	580	< 10	< 20	0.8	< 3	< 10	20	0.003	5.1	10	< 10	1.7	10	0.9	0.224	< 0.001	1.1	< 0.001	0.17	250
960367	< 3.0	9.9	< 30	740	< 10	< 20	1.3	5	10	10	0.019	5.4	20	< 10	2.6	20	1.1	0.275	< 0.001	1.1	< 0.001	0.20	430
960368	< 3.0	9.0	< 30	710	< 10	< 20	1.2	< 3	< 10	< 10	0.008	4.6	30	< 10	2.3	20	1.3	0.203	< 0.001	1.1	< 0.001	0.20	270
960369	< 3.0	9.1	< 30	560	< 10	< 20	1.8	< 3	20	80	0.020	5.9	20	< 10	1.6	20	1.6	0.371	< 0.001	1.1	0.002	0.24	210
960370	< 3.0	9.0	< 30	620	< 10	< 20	2.0	< 3	< 10	20	0.007	5.1	30	< 10	1.7	20	1.3	0.204	< 0.001	1.4	< 0.001	0.22	140
960371	< 3.0	10.6	< 30	1110	< 10	< 20	0.5	< 3	10	< 10	0.003	4.9	20	< 10	3.0	10	1.0	0.194	< 0.001	1.4	< 0.001	0.19	50

Results**Activation Laboratories Ltd.****Report: A17-07491**

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
960372	< 3.0	7.0	< 30	770	< 10	< 20	0.2	< 3	< 10	20	0.002	3.4	20	< 10	1.9	< 10	0.4	0.187	< 0.001	0.8	< 0.001	0.40	30
960373	< 3.0	8.3	< 30	780	< 10	< 20	0.4	< 3	20	50	0.005	4.4	20	< 10	2.3	10	0.8	0.223	< 0.001	1.2	< 0.001	0.22	40
960374	< 3.0	8.4	< 30	760	< 10	< 20	1.1	< 3	10	40	0.004	5.7	20	< 10	2.0	20	0.7	0.173	< 0.001	1.0	0.001	0.16	50
960375	< 3.0	8.4	< 30	840	< 10	< 20	1.2	< 3	10	20	0.018	6.6	20	< 10	1.6	20	0.5	0.319	< 0.001	0.8	< 0.001	0.15	60
960376	< 3.0	9.7	< 30	710	< 10	< 20	1.6	5	30	30	0.017	6.1	20	< 10	2.0	20	0.9	0.392	< 0.001	0.9	0.001	0.18	880
960377	3.1	8.6	< 30	490	< 10	< 20	2.7	< 3	20	< 10	0.009	5.4	20	< 10	1.4	10	1.5	0.261	< 0.001	1.0	< 0.001	0.16	< 30
960378	< 3.0	9.4	50	590	< 10	< 20	0.5	< 3	30	40	0.005	7.6	20	< 10	1.4	20	0.8	0.422	< 0.001	0.8	< 0.001	0.16	70
960379	< 3.0	10.6	< 30	1110	< 10	< 20	0.5	< 3	10	< 10	0.011	4.4	30	< 10	3.4	10	1.0	0.222	< 0.001	0.9	< 0.001	0.22	100
960380	< 3.0	8.0	< 30	550	< 10	< 20	0.2	< 3	< 10	20	0.002	4.6	20	< 10	2.0	10	0.6	0.207	< 0.001	0.9	< 0.001	0.37	< 30
960381	< 3.0	8.6	< 30	750	< 10	< 20	0.4	< 3	< 10	20	0.003	4.7	20	< 10	2.1	10	0.6	0.097	< 0.001	1.2	< 0.001	0.27	< 30
960382	< 3.0	9.0	< 30	470	< 10	< 20	0.9	< 3	30	150	0.034	7.3	10	< 10	1.5	30	2.4	0.339	< 0.001	1.0	0.003	0.16	30
960383	< 3.0	6.9	< 30	430	< 10	< 20	1.2	< 3	50	470	0.006	8.2	20	< 10	0.9	30	3.3	0.617	< 0.001	0.7	0.007	0.38	140
960384	< 3.0	7.1	< 30	960	< 10	< 20	1.9	< 3	10	120	0.007	6.2	20	< 10	2.1	30	1.2	0.238	< 0.001	1.0	0.001	0.36	100
960385	< 3.0	6.7	< 30	740	< 10	< 20	1.3	< 3	< 10	50	0.005	4.3	20	< 10	1.4	< 10	0.6	0.124	< 0.001	0.9	< 0.001	0.34	50
960386	< 3.0	8.2	< 30	760	< 10	< 20	1.7	< 3	10	80	0.004	6.7	20	< 10	1.5	20	1.1	0.196	< 0.001	1.0	0.001	0.24	60
960387	< 3.0	8.0	< 30	770	< 10	< 20	2.1	< 3	10	90	0.006	5.3	20	< 10	1.6	10	1.1	0.224	< 0.001	1.3	0.001	0.21	80
960388	< 3.0	7.3	< 30	200	< 10	< 20	4.6	< 3	70	410	0.073	9.0	20	< 10	0.6	20	5.2	0.472	< 0.001	0.4	0.011	0.19	350
960389	< 3.0	6.1	< 30	810	< 10	< 20	0.6	< 3	< 10	30	0.003	4.8	20	< 10	1.3	< 10	0.3	0.053	< 0.001	0.8	< 0.001	0.30	30
960390	< 3.0	7.5	< 30	930	< 10	< 20	0.7	< 3	< 10	60	0.005	4.0	30	< 10	2.0	10	0.6	0.068	< 0.001	1.2	< 0.001	0.17	60
960391	< 3.0	6.8	40	640	< 10	< 20	0.6	< 3	< 10	40	0.002	5.3	20	< 10	1.3	10	0.5	0.067	< 0.001	1.4	< 0.001	0.23	70
960392	< 3.0	7.8	< 30	890	< 10	< 20	1.0	< 3	< 10	30	0.005	4.6	< 10	< 10	1.8	10	0.8	0.157	< 0.001	1.5	< 0.001	0.18	90
960393	3.5	5.3	< 30	270	< 10	< 20	0.3	< 3	< 10	< 10	0.043	0.7	10	< 10	0.5	< 10	0.1	0.017	< 0.001	0.5	< 0.001	0.38	< 30
960394	< 3.0	9.1	< 30	720	< 10	< 20	2.5	4	< 10	10	0.010	5.0	20	< 10	1.9	20	1.4	0.291	0.003	1.1	< 0.001	0.18	330
960395	< 3.0	9.7	< 30	750	< 10	< 20	1.4	< 3	20	< 10	0.012	6.4	20	< 10	2.2	10	1.0	0.275	< 0.001	0.9	< 0.001	0.25	280
960396	< 3.0	9.0	< 30	720	< 10	< 20	1.8	< 3	10	10	0.010	9.6	30	< 10	2.0	10	1.0	0.200	0.002	0.9	< 0.001	0.39	430

Results

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Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
741451	0.2	< 50	< 40	210	< 20	0.4	< 50	< 100	130	< 50	50	0.118	110	0.012	< 1	0.214	19.0	2.1	2	0.020	1.00	3.13	0.12
741452	0.1	< 50	< 40	120	< 20	0.3	< 50	< 100	110	< 50	80	0.043	110	0.013	< 1	0.138	15.0	1.8	1	0.019	0.82	1.92	0.06
741453	0.3	< 50	< 40	170	50	0.3	330	< 100	120	< 50	10	0.034	80	0.008	< 1	0.224	7.8	0.7	< 1	0.048	0.31	1.63	0.26
741454	0.4	< 50	< 40	190	< 20	0.3	150	< 100	120	< 50	10	0.026	70	0.010	< 1	0.196	6.1	0.6	< 1	0.057	0.35	1.64	0.27
741455	0.2	< 50	< 40	230	< 20	0.2	< 50	< 100	140	< 50	10	0.015	< 50	0.010	< 1	0.191	7.7	0.5	< 1	0.045	0.25	1.73	0.18
741456	0.2	< 50	< 40	200	< 20	0.3	660	< 100	90	< 50	10	0.019	80	0.018	< 1	0.102	11.9	0.4	< 1	0.040	0.24	1.60	0.21
741457	0.5	< 50	< 40	320	< 20	0.4	1890	< 100	160	< 50	10	0.015	80	0.049	< 1	0.223	12.1	0.7	< 1	0.081	0.42	2.99	0.24
741458	0.3	< 50	< 40	250	< 20	0.4	690	< 100	190	< 50	10	0.010	80	0.070	< 1	0.248	8.8	0.5	< 1	0.032	0.36	2.55	0.18
741459	0.2	< 50	< 40	280	< 20	0.4	< 50	< 100	120	< 50	< 10	0.013	110	0.024	< 1	0.161	8.3	0.4	< 1	0.035	0.23	2.29	0.19
741460	< 0.1	< 50	< 40	190	< 20	0.2	670	< 100	80	< 50	10	0.010	70	0.040	< 1	0.117	9.8	0.3	< 1	0.022	0.34	2.29	0.12
741461	0.1	< 50	< 40	290	< 20	0.2	450	< 100	60	< 50	< 10	0.014	60	0.018	< 1	0.077	6.1	0.5	< 1	0.022	0.24	1.82	0.15
741462	0.3	< 50	< 40	230	< 20	0.3	2250	< 100	80	< 50	10	0.009	60	0.006	< 1	0.089	5.6	0.3	< 1	0.030	0.21	1.83	0.24
741463	0.3	< 50	< 40	250	< 20	0.3	< 50	< 100	130	< 50	10	0.010	70	0.006	< 1	0.173	4.3	0.3	< 1	0.029	0.24	1.58	0.33
741464	< 0.1	< 50	< 40	230	< 20	0.2	710	< 100	80	< 50	20	0.023	< 50	0.036	< 1	0.083	16.3	0.7	1	0.024	0.44	1.94	0.16
741465	< 0.1	< 50	< 40	250	< 20	0.1	970	< 100	60	< 50	10	0.017	< 50	0.034	< 1	0.038	11.9	0.5	< 1	0.019	0.43	1.75	0.10
741466	< 0.1	< 50	< 40	240	< 20	0.2	< 50	< 100	60	< 50	10	0.007	70	0.068	< 1	0.091	5.4	0.3	2	0.022	0.18	1.32	0.07
741467	< 0.1	< 50	< 40	280	< 20	< 0.1	3220	< 100	50	< 50	10	0.013	60	0.073	< 1	0.070	12.8	0.4	< 1	0.024	0.34	1.64	0.10
741468	< 0.1	< 50	< 40	260	< 20	0.2	1160	< 100	60	< 50	10	0.018	60	0.035	< 1	0.061	9.3	0.3	< 1	0.023	0.31	1.39	0.10
741469	< 0.1	< 50	< 40	270	< 20	0.4	1710	< 100	110	< 50	20	0.025	90	0.041	< 1	0.141	8.5	0.6	3	0.021	0.25	1.61	0.12
741470	< 0.1	< 50	< 40	270	< 20	0.1	< 50	< 100	50	< 50	20	0.011	50	0.047	< 1	0.046	3.6	0.4	3	0.020	0.18	2.18	0.12
741471	< 0.1	< 50	< 40	110	< 20	0.1	410	< 100	70	< 50	10	0.024	50	0.011	< 1	0.033	26.6	0.6	2	0.019	0.84	3.25	0.33
741472	< 0.1	< 50	< 40	190	< 20	0.3	< 50	< 100	70	< 50	20	0.018	140	0.057	< 1	0.094	10.8	0.5	< 1	0.027	0.27	2.27	0.10
741473	< 0.1	< 50	< 40	340	< 20	0.5	< 50	< 100	120	< 50	20	0.036	90	0.107	< 1	0.132	16.5	0.6	< 1	0.021	0.44	2.83	0.07
741474	< 0.1	< 50	< 40	330	< 20	0.4	1310	< 100	120	< 50	20	0.044	80	0.101	< 1	0.137	15.9	0.5	< 1	0.019	0.39	2.88	0.08
741475	< 0.1	< 50	< 40	320	< 20	0.4	< 50	< 100	110	< 50	20	0.125	80	0.075	< 1	0.137	13.7	1.0	2	0.021	0.50	2.43	0.18
741476	< 0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	20	0.136	60	0.084	< 1	0.119	12.4	1.2	2	0.019	0.48	3.22	0.13
741477	< 0.1	< 50	< 40	290	< 20	< 0.1	< 50	< 100	40	< 50	20	0.061	< 50	0.127	< 1	0.052	16.3	0.6	2	0.028	0.57	2.30	0.10
741478	< 0.1	< 50	< 40	260	40	0.1	750	< 100	50	< 50	10	0.045	60	0.091	< 1	0.038	17.6	0.5	1	0.022	0.46	1.65	0.08
741479	< 0.1	< 50	< 40	260	60	0.1	1570	< 100	60	< 50	20	0.076	< 50	0.050	< 1	0.047	17.1	0.6	2	0.023	0.34	1.86	0.09
741480	< 0.1	< 50	< 40	220	< 20	0.5	3700	< 100	150	< 50	20	0.092	170	0.148	< 1	0.074	20.1	0.8	< 1	0.021	0.32	2.41	0.06
741481	< 0.1	< 50	< 40	200	< 20	0.2	< 50	< 100	60	< 50	10	0.007	< 50	0.058	< 1	0.030	5.2	0.2	< 1	0.018	0.16	1.41	0.04
741482	< 0.1	< 50	< 40	230	< 20	0.4	60	< 100	100	< 50	10	0.029	90	0.083	< 1	0.128	13.8	0.4	< 1	0.025	0.34	2.80	0.06
741483	< 0.1	< 50	< 40	170	< 20	0.2	1230	< 100	50	< 50	10	0.020	70	0.037	< 1	0.069	10.7	0.3	< 1	0.022	0.24	1.70	0.06
741484	< 0.1	< 50	< 40	260	< 20	0.2	1090	< 100	70	< 50	10	0.041	60	0.093	< 1	0.133	14.1	0.5	< 1	0.023	0.30	2.21	0.05
741485	< 0.1	< 50	< 40	230	50	0.2	380	< 100	70	< 50	10	0.048	< 50	0.107	< 1	0.113	19.3	0.8	< 1	0.022	0.44	2.64	0.06
741486	< 0.1	< 50	< 40	260	< 20	< 0.1	1330	< 100	20	< 50	10	0.033	50	0.068	< 1	0.021	6.1	0.1	< 1	0.020	0.23	1.11	0.05
741487	0.2	< 50	< 40	220	30	0.4	90	< 100	150	< 50	20	0.047	60	0.008	< 1	0.166	7.8	0.7	< 1	0.028	0.36	1.93	0.28
741488	0.1	< 50	< 40	120	< 20	0.3	1430	< 100	120	< 50	20	0.010	< 50	0.003	< 1	0.181	1.2	0.4	< 1	0.019	0.07	0.84	0.27
741489	0.4	< 50	< 40	210	< 20	0.4	310	< 100	120	< 50	10	0.013	90	0.010	< 1	0.170	4.9	0.4	< 1	0.057	0.25	1.55	0.21
741490	< 0.1	< 50	< 40	200	< 20	0.4	2120	< 100	120	< 50	10	0.012	80	0.009	< 1	0.114	12.2	0.5	< 1	0.020	0.46	1.45	0.15
741491	0.3	< 50	< 40	180	< 20	0.2	450	< 100	100	< 50	10	0.013	70	0.005	< 1	0.216	1.9	0.3	< 1	0.057	0.13	0.88	0.26
741492	0.2	< 50	< 40	190	< 20	0.5	< 50	< 100	150	< 50	20	0.027	100	0.013	< 1	0.206	9.1	0.7	< 1	0.030	0.44	1.62	0.23

Results

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Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
741493	0.2	< 50	< 40	320	20	0.3	< 50	< 100	110	< 50	20	0.046	70	0.015	< 1	0.180	5.0	0.9	< 1	0.028	0.38	2.58	0.16
741494	0.3	< 50	< 40	420	< 20	0.3	110	< 100	140	< 50	20	0.021	60	0.008	< 1	0.223	7.7	0.8	< 1	0.031	0.38	1.93	0.28
741495	0.3	< 50	< 40	440	< 20	0.3	880	< 100	90	< 50	10	0.013	80	0.024	< 1	0.116	4.0	0.4	< 1	0.028	0.25	2.08	0.18
741496	< 0.1	< 50	< 40	360	< 20	0.3	< 50	< 100	100	< 50	20	0.015	80	0.053	< 1	0.118	4.2	0.4	< 1	0.019	0.23	1.95	0.10
741497	0.1	< 50	< 40	210	< 20	0.3	740	< 100	100	< 50	< 10	0.008	60	0.028	< 1	0.130	8.4	0.5	< 1	0.024	0.28	2.74	0.12
741498	< 0.1	< 50	< 40	220	< 20	0.3	1100	< 100	110	< 50	10	0.008	70	0.046	< 1	0.091	9.4	0.4	< 1	0.020	0.28	2.39	0.11
741499	< 0.1	< 50	< 40	200	< 20	0.2	600	< 100	60	< 50	10	0.007	70	0.026	< 1	0.070	6.2	0.2	< 1	0.019	0.21	2.02	0.10
741500	< 0.1	< 50	< 40	230	< 20	0.4	230	< 100	110	< 50	10	0.011	80	0.062	< 1	0.136	8.8	0.4	< 1	0.022	0.30	2.01	0.09
745914	< 0.1	< 50	< 40	290	< 20	0.3	430	< 100	100	< 50	20	0.006	60	0.201	< 1	0.060	11.2	0.3	6	0.163	0.85	1.86	0.16
745915	0.1	< 50	< 40	520	< 20	0.3	< 50	< 100	90	< 50	30	0.011	80	0.281	< 1	0.156	21.4	0.7	< 1	0.271	1.80	3.42	0.26
718951	0.1	< 50	< 40	320	< 20	0.3	960	< 100	90	< 50	10	0.015	50	0.038	< 1	0.102	7.5	0.5	< 1	0.024	0.31	2.14	0.09
718952	< 0.1	< 50	< 40	290	< 20	0.3	< 50	< 100	90	< 50	20	0.019	70	0.064	< 1	0.119	10.9	0.4	< 1	0.022	0.32	2.16	0.09
718953	0.2	< 50	< 40	250	< 20	0.3	< 50	< 100	120	< 50	20	0.049	90	0.016	< 1	0.143	13.4	1.3	< 1	0.024	0.72	2.50	0.15
718954	0.2	< 50	< 40	390	50	0.3	230	< 100	160	< 50	40	0.060	80	0.027	< 1	0.146	10.5	1.4	< 1	0.030	0.72	2.26	0.20
718955	0.2	< 50	< 40	210	< 20	0.4	< 50	< 100	140	< 50	30	0.109	90	0.014	< 1	0.144	11.2	1.5	< 1	0.027	0.64	2.27	0.18
718956	0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	130	< 50	50	0.269	110	0.003	< 1	0.160	27.0	1.2	< 1	0.023	0.54	2.77	0.14
718957	0.1	< 50	< 40	120	< 20	0.4	1500	< 100	80	< 50	20	0.015	160	0.016	< 1	0.124	8.1	0.4	< 1	0.035	0.26	2.83	0.11
718958	0.1	< 50	< 40	170	< 20	0.5	< 50	< 100	150	< 50	10	0.008	140	0.009	< 1	0.082	2.4	0.3	< 1	0.023	0.22	2.33	0.11
718959	0.1	< 50	< 40	140	< 20	0.4	220	< 100	110	< 50	< 10	0.012	100	0.018	< 1	0.119	7.5	0.4	< 1	0.030	0.36	2.92	0.13
718960	0.2	< 50	< 40	140	< 20	0.4	1350	< 100	130	< 50	< 10	0.009	110	0.019	< 1	0.177	3.4	0.2	< 1	0.027	0.27	2.05	0.13
718961	< 0.1	< 50	< 40	160	< 20	0.5	2520	< 100	150	< 50	< 10	0.010	130	0.019	< 1	0.094	5.1	0.3	< 1	0.021	0.24	2.56	0.11
718962	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	110	< 50	10	0.014	80	0.022	< 1	0.089	9.8	0.5	< 1	0.020	0.40	2.17	0.08
718963	0.3	< 50	< 40	170	< 20	0.4	< 50	< 100	130	< 50	20	0.020	80	0.010	< 1	0.246	7.0	0.5	< 1	0.031	0.36	1.78	0.17
718964	0.1	< 50	< 40	230	< 20	0.4	< 50	< 100	140	< 50	40	0.022	100	0.018	< 1	0.214	18.2	1.8	< 1	0.017	1.13	2.60	0.21
718965	< 0.1	< 50	< 40	200	< 20	0.2	120	< 100	120	< 50	20	0.031	< 50	0.006	< 1	0.088	11.8	1.3	< 1	0.015	0.74	2.89	0.27
718966	0.4	< 50	< 40	210	30	0.4	2050	< 100	210	< 50	20	0.045	110	0.031	< 1	0.209	11.6	0.8	< 1	0.037	0.61	2.03	0.25
718967	0.2	< 50	< 40	130	< 20	0.2	1220	< 100	100	< 50	10	0.022	< 50	0.012	< 1	0.501	2.9	0.6	< 1	0.017	0.19	1.17	0.11
718968	0.1	< 50	< 40	240	< 20	0.5	1380	< 100	140	< 50	10	0.027	80	0.008	< 1	0.127	5.6	0.5	< 1	0.019	0.32	1.49	0.14
718969	0.2	< 50	< 40	200	< 20	0.4	< 50	< 100	140	< 50	10	0.032	70	0.012	< 1	0.184	3.9	0.6	< 1	0.020	0.29	1.98	0.15
718970	< 0.1	< 50	< 40	180	< 20	0.4	< 50	< 100	120	< 50	< 10	0.021	70	0.014	< 1	0.124	10.0	0.7	< 1	0.019	0.30	2.38	0.11
718971	< 0.1	< 50	< 40	260	< 20	0.4	2910	< 100	120	< 50	10	0.024	80	0.027	< 1	0.077	10.7	0.3	< 1	0.021	0.21	1.32	0.11
718972	< 0.1	< 50	< 40	230	< 20	0.4	< 50	< 100	100	< 50	10	0.014	90	0.036	< 1	0.086	7.7	0.4	< 1	0.023	0.45	2.08	0.12
718973	< 0.1	< 50	< 40	400	< 20	0.5	< 50	< 100	160	< 50	20	0.032	80	0.105	< 1	0.124	11.1	0.5	1	0.027	0.95	1.86	0.13
718974	< 0.1	< 50	< 40	290	< 20	0.2	3960	< 100	100	< 50	10	0.012	60	0.059	< 1	0.083	4.2	0.3	< 1	0.024	0.57	2.24	0.09
718975	< 0.1	< 50	< 40	510	< 20	0.4	770	< 100	180	< 50	20	0.022	60	0.147	< 1	0.089	8.3	0.4	< 1	0.026	1.16	1.84	0.08
718976	< 0.1	< 50	< 40	410	< 20	0.4	380	< 100	150	< 50	20	0.030	70	0.090	< 1	0.140	13.7	0.5	< 1	0.028	1.30	2.26	0.08
718977	< 0.1	< 50	< 40	530	30	0.5	1410	< 100	210	< 50	20	0.030	60	0.151	< 1	0.111	11.6	0.7	1	0.030	1.52	2.29	0.06
718978	< 0.1	< 50	< 40	420	40	0.4	< 50	< 100	190	< 50	20	0.048	60	0.109	< 1	0.091	13.6	0.6	< 1	0.027	1.35	2.47	0.10
718979	< 0.1	< 50	< 40	400	< 20	0.5	< 50	< 100	240	< 50	10	0.026	80	0.068	< 1	0.121	8.6	0.4	< 1	0.022	0.91	2.43	0.09
718980	< 0.1	< 50	< 40	500	40	0.5	< 50	< 100	200	< 50	20	0.046	80	0.166	< 1	0.099	17.4	0.6	1	0.027	1.58	2.77	0.14
718981	< 0.1	< 50	< 40	570	< 20	0.5	< 50	< 100	240	< 50	20	0.051	70	0.229	< 1	0.141	14.8	0.9	1	0.029	2.37	3.24	0.08
718982	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	160	< 50	10	0.011	70	0.132	< 1	0.158	5.1	0.6	< 1	0.023	0.51	3.09	0.05

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
718983	< 0.1	< 50	< 40	320	< 20	0.2	3560	< 100	80	< 50	20	0.018	80	0.101	< 1	0.077	8.8	0.3	< 1	0.025	0.58	2.28	0.08
718984	< 0.1	< 50	< 40	280	< 20	0.2	< 50	< 100	100	< 50	20	0.019	70	0.084	< 1	0.123	5.7	0.5	< 1	0.019	0.46	2.19	0.08
718985	< 0.1	< 50	< 40	230	< 20	0.3	< 50	< 100	120	< 50	20	0.012	110	0.060	< 1	0.109	2.1	0.4	< 1	0.019	0.23	1.72	0.08
718986	< 0.1	< 50	< 40	370	20	0.4	2270	< 100	150	< 50	20	0.041	90	0.074	< 1	0.123	8.9	0.7	1	0.019	0.76	2.01	0.08
718987	0.1	< 50	< 40	160	50	0.4	110	< 100	160	< 50	20	0.061	130	0.008	< 1	0.234	17.3	1.4	< 1	0.022	1.09	4.13	0.31
718988	< 0.1	< 50	< 40	300	30	0.5	280	< 100	150	< 50	20	0.036	110	0.052	< 1	0.138	9.9	1.0	< 1	0.024	0.70	2.49	0.12
718989	< 0.1	< 50	< 40	470	< 20	0.5	< 50	< 100	160	< 50	30	0.058	140	0.126	< 1	0.154	10.4	1.3	< 1	0.038	0.86	2.28	0.14
718990	< 0.1	< 50	< 40	470	< 20	0.5	< 50	< 100	160	< 50	30	0.053	100	0.089	< 1	0.148	12.2	1.0	1	0.021	0.88	2.45	0.14
718991	0.3	< 50	< 40	600	< 20	0.6	1550	< 100	260	< 50	30	0.051	90	0.139	< 1	0.161	12.5	1.0	< 1	0.022	1.05	2.65	0.27
718992	0.6	< 50	< 40	310	< 20	0.5	2820	< 100	180	< 50	20	0.064	80	0.087	< 1	0.174	6.9	0.8	< 1	0.055	0.61	1.78	0.51
718993	0.2	< 50	< 40	380	40	0.3	< 50	< 100	130	< 50	30	0.050	60	0.075	< 1	0.143	10.6	1.0	< 1	0.028	0.84	2.03	0.28
718994	< 0.1	< 50	< 40	200	< 20	0.3	< 50	< 100	90	< 50	20	0.042	80	0.019	< 1	0.176	11.2	0.9	< 1	0.030	0.54	2.35	0.19
718995	0.2	< 50	< 40	170	< 20	0.4	< 50	< 100	110	< 50	20	0.107	70	0.011	< 1	0.212	12.0	1.4	< 1	0.022	0.53	2.72	0.31
718996	0.2	< 50	< 40	170	< 20	0.4	1770	< 100	130	< 50	10	0.026	80	0.010	< 1	0.176	7.0	0.6	< 1	0.025	0.36	2.30	0.22
718997	0.1	< 50	< 40	260	< 20	0.5	< 50	< 100	140	< 50	10	0.020	100	0.014	< 1	0.114	6.4	0.5	< 1	0.022	0.43	2.66	0.13
718998	0.1	< 50	< 40	180	< 20	0.5	1980	< 100	110	< 50	20	0.020	160	0.019	< 1	0.123	8.4	0.6	< 1	0.030	0.44	2.69	0.13
718999	0.1	< 50	< 40	240	< 20	0.5	910	< 100	130	< 50	20	0.017	120	0.030	< 1	0.119	6.5	0.4	< 1	0.027	0.46	2.46	0.15
719000	0.1	< 50	< 40	180	< 20	0.5	2100	< 100	120	< 50	10	0.009	110	0.008	< 1	0.124	2.7	0.4	< 1	0.025	0.24	1.99	0.14
745916	< 0.1	< 50	< 40	260	< 20	0.4	720	< 100	110	< 50	20	0.005	60	0.201	< 1	0.058	10.6	0.3	5	0.155	0.83	1.78	0.16
745917	0.1	< 50	< 40	510	< 20	0.5	1460	< 100	120	< 50	30	0.010	120	0.311	< 1	0.168	21.8	0.8	< 1	0.284	1.86	3.56	0.28
960350	0.1	< 50	< 40	300	< 20	0.2	580	< 100	90	< 50	20	0.035	< 50	0.072	< 1	0.144	10.8	0.5	< 1	0.027	0.62	2.62	0.17
960351	< 0.1	< 50	< 40	300	< 20	0.2	1470	< 100	60	< 50	20	0.019	80	0.056	< 1	0.086	9.1	0.6	< 1	0.025	0.53	2.30	0.13
960352	< 0.1	< 50	< 40	370	< 20	0.3	< 50	< 100	80	< 50	20	0.020	60	0.072	< 1	0.114	9.8	0.4	< 1	0.018	0.64	2.13	0.11
960353	0.1	< 50	< 40	190	< 20	0.5	< 50	< 100	120	< 50	10	0.014	90	0.018	< 1	0.163	6.5	0.5	< 1	0.036	0.30	2.01	0.15
960354	0.1	< 50	< 40	160	< 20	0.4	2110	< 100	130	< 50	10	0.019	110	0.017	< 1	0.148	8.7	0.6	< 1	0.021	0.40	2.34	0.14
960355	0.2	< 50	< 40	160	< 20	0.4	< 50	< 100	160	< 50	10	0.031	90	0.010	< 1	0.319	3.1	0.6	< 1	0.018	0.24	1.01	0.14
960356	< 0.1	< 50	< 40	210	20	0.4	< 50	< 100	130	< 50	20	0.037	80	0.015	< 1	0.146	9.4	0.5	< 1	0.017	0.58	2.15	0.17
960357	< 0.1	< 50	< 40	210	30	0.4	1210	< 100	120	< 50	30	0.065	90	0.015	< 1	0.133	11.5	1.1	< 1	0.020	0.62	1.82	0.26
960358	< 0.1	< 50	< 40	270	< 20	0.3	620	< 100	120	< 50	30	0.028	90	0.030	< 1	0.148	13.6	1.0	< 1	0.029	0.78	2.19	0.22
960359	0.3	< 50	< 40	220	< 20	0.3	1330	< 100	130	< 50	10	0.020	70	0.012	< 1	0.188	8.6	0.7	< 1	0.054	0.45	1.90	0.24
960360	0.4	< 50	< 40	230	< 20	0.4	3360	< 100	150	< 50	20	0.017	90	0.017	< 1	0.216	10.4	0.6	< 1	0.064	0.47	2.76	0.27
960361	< 0.1	< 50	< 40	330	< 20	0.2	< 50	< 100	80	< 50	20	0.072	60	0.032	< 1	0.132	11.2	1.2	< 1	0.025	0.59	2.08	0.25
960362	0.1	< 50	< 40	170	< 20	0.4	< 50	< 100	120	< 50	20	0.024	80	0.007	< 1	0.250	6.7	0.6	< 1	0.021	0.21	2.16	0.23
960363	< 0.1	< 50	< 40	260	< 20	0.4	630	< 100	140	< 50	30	0.022	90	0.023	< 1	0.142	12.7	1.1	< 1	0.022	0.85	2.10	0.33
960364	< 0.1	< 50	< 40	230	< 20	0.4	550	< 100	130	< 50	10	0.019	80	0.013	< 1	0.172	11.8	0.8	< 1	0.019	0.60	2.04	0.20
960365	< 0.1	< 50	< 40	220	< 20	0.4	220	< 100	130	< 50	20	0.012	80	0.008	< 1	0.166	8.3	0.9	< 1	0.019	0.44	1.69	0.17
960366	0.1	< 50	< 40	220	< 20	0.4	200	< 100	120	< 50	20	0.090	70	0.016	< 1	0.110	12.0	0.7	< 1	0.022	0.65	1.76	0.20
960367	< 0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	130	< 50	30	0.117	90	0.030	< 1	0.150	11.5	1.1	< 1	0.021	0.82	2.10	0.30
960368	< 0.1	< 50	< 40	290	30	0.4	200	< 100	120	< 50	30	0.047	80	0.052	< 1	0.149	11.2	0.9	1	0.020	0.92	1.74	0.30
960369	< 0.1	< 50	< 40	340	80	0.5	< 50	< 100	180	< 50	20	0.063	90	0.049	< 1	0.132	15.2	0.9	< 1	0.023	1.15	2.65	0.18
960370	< 0.1	< 50	< 40	400	50	0.3	1330	< 100	120	< 50	20	0.039	80	0.107	< 1	0.139	14.6	0.8	2	0.020	0.99	2.59	0.18
960371	< 0.1	< 50	< 40	230	< 20	0.3	880	< 100	100	< 50	40	0.018	70	0.024	< 1	0.158	8.1	0.8	< 1	0.021	0.66	1.53	0.27

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
960372	< 0.1	< 50	< 40	120	< 20	0.3	120	< 100	100	< 50	< 10	0.008	< 50	0.008	< 1	0.259	2.2	0.6	< 1	0.018	0.10	1.43	0.09
960373	< 0.1	< 50	< 40	160	< 20	0.4	820	< 100	110	< 50	20	0.014	90	0.010	< 1	0.148	9.3	0.9	< 1	0.019	0.53	1.69	0.20
960374	< 0.1	< 50	< 40	220	< 20	0.5	700	< 100	130	< 50	20	0.015	100	0.009	< 1	0.093	10.0	0.9	< 1	0.017	0.41	1.71	0.14
960375	< 0.1	< 50	< 40	220	< 20	0.4	1000	< 100	130	< 50	30	0.037	90	0.005	< 1	0.107	8.2	1.2	< 1	0.020	0.38	2.27	0.17
960376	< 0.1	< 50	< 40	280	< 20	0.4	< 50	< 100	120	< 50	30	0.084	80	0.026	< 1	0.123	9.8	0.9	< 1	0.024	0.63	2.32	0.15
960377	< 0.1	< 50	< 40	260	< 20	0.4	170	< 100	200	< 50	30	0.014	90	0.028	< 1	0.064	6.4	0.4	< 1	0.017	0.49	2.02	0.07
960378	< 0.1	< 50	< 40	120	< 20	0.4	400	< 100	140	< 50	30	0.032	80	0.002	< 1	0.106	9.9	1.3	< 1	0.021	0.48	2.16	0.13
960379	< 0.1	< 50	< 40	110	< 20	0.5	1070	< 100	270	< 50	40	0.017	90	0.015	< 1	0.176	6.8	1.1	< 1	0.021	0.58	1.54	0.40
960380	< 0.1	< 50	< 40	80	< 20	0.3	1740	< 100	100	< 50	10	0.017	50	0.009	< 1	0.266	8.3	0.7	< 1	0.020	0.31	1.73	0.16
960381	< 0.1	< 50	< 40	130	< 20	0.4	180	< 100	100	< 50	20	0.018	70	0.009	< 1	0.207	8.6	0.8	< 1	0.021	0.38	1.80	0.20
960382	< 0.1	< 50	< 40	190	< 20	0.6	1100	< 100	240	< 50	20	0.027	80	0.058	< 1	0.096	22.0	0.7	< 1	0.018	1.96	3.13	0.18
960383	< 0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	250	< 50	10	0.028	70	0.043	< 1	0.132	21.1	0.8	< 1	0.029	2.28	3.59	0.11
960384	< 0.1	< 50	< 40	350	< 20	0.5	< 50	< 100	200	< 50	10	0.029	90	0.028	< 1	0.146	6.8	0.3	< 1	0.025	0.69	1.77	0.09
960385	0.1	< 50	< 40	290	< 20	0.4	980	< 100	130	< 50	10	0.019	80	0.019	< 1	0.158	7.0	0.5	< 1	0.022	0.44	1.98	0.07
960386	< 0.1	< 50	< 40	330	< 20	0.5	2640	< 100	200	< 50	20	0.026	90	0.076	< 1	0.100	12.6	0.5	< 1	0.024	0.75	3.26	0.08
960387	< 0.1	< 50	< 40	380	< 20	0.4	1570	< 100	160	< 50	20	0.029	100	0.073	< 1	0.122	10.9	0.6	< 1	0.026	0.74	2.30	0.09
960388	< 0.1	< 50	< 40	480	< 20	0.6	< 50	< 100	300	< 50	20	0.049	< 50	0.194	< 1	0.137	17.5	0.7	1	0.029	3.35	3.25	0.06
960389	0.1	< 50	< 40	190	< 20	0.3	1880	< 100	110	< 50	10	0.010	60	0.017	< 1	0.161	2.2	0.3	< 1	0.027	0.17	2.19	0.08
960390	0.2	< 50	< 40	230	< 20	0.3	770	< 100	70	< 50	20	0.013	120	0.033	< 1	0.082	4.9	0.5	< 1	0.035	0.38	1.97	0.16
960391	< 0.1	< 50	< 40	220	< 20	0.4	1100	< 100	120	< 50	10	0.010	70	0.047	< 1	0.151	8.3	0.3	< 1	0.022	0.35	2.09	0.08
960392	0.2	< 50	< 40	280	< 20	0.4	1280	< 100	120	< 50	20	0.025	80	0.055	< 1	0.119	8.2	0.5	< 1	0.031	0.55	1.63	0.14
960393	0.2	< 50	< 40	100	< 20	< 0.1	1040	< 100	30	< 50	130	0.008	< 50	0.007	< 1	0.266	1.9	0.7	< 1	0.021	0.06	2.47	0.04
960394	< 0.1	< 50	< 40	440	< 20	0.4	1580	< 100	140	< 50	30	0.080	80	0.061	< 1	0.137	15.5	1.0	1	0.028	1.10	2.43	0.24
960395	0.2	< 50	< 40	290	< 20	0.4	< 50	< 100	150	< 50	20	0.044	80	0.046	< 1	0.187	12.4	0.9	< 1	0.044	0.70	2.61	0.23
960396	0.4	< 50	< 40	370	< 20	0.4	2050	< 100	180	< 50	20	0.029	90	0.073	< 1	0.260	9.9	0.6	< 1	0.059	0.68	2.12	0.20

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05	
Method Code	AR-MS	AR-MS																						
741451	3.16	0.68	7.8	87	11	5230	5.53	23.3	8.9	402	900	6.32	0.1	5.1	13.3	54.5	31.2	4.8	0.7	11.1	1.02	0.08	0.77	
741452	0.37	1.01	4.5	91	9	3500	4.83	16.7	7.7	79.0	312	7.87	< 0.1	0.2	6.2	4.7	27.4	49.7	1.5	0.3	3.28	0.440	0.06	0.63
741453	0.74	0.21	0.4	55	9	1420	4.35	8.1	5.4	58.4	289	6.79	< 0.1	7.8	11.7	54.5	4.51	0.4	0.2	4.20	0.653	0.05	0.57	
741454	0.81	0.26	0.5	46	8	676	4.50	3.8	4.6	53.4	232	5.36	< 0.1	8.1	8.8	62.1	3.72	0.8	0.4	3.80	1.22	0.05	0.41	
741455	0.71	0.21	0.6	73	9	1160	4.03	7.1	4.5	23.2	114	8.89	< 0.1	6.3	15.6	83.2	4.16	0.6	0.4	3.26	0.359	0.05	0.91	
741456	0.88	0.31	1.0	81	9	415	3.91	4.0	4.1	19.9	143	9.39	< 0.1	5.0	16.7	65.6	3.35	0.2	0.8	4.67	0.309	0.05	1.01	
741457	2.23	0.12	2.9	88	10	576	7.74	3.3	4.7	37.0	119	10.3	< 0.1	11.6	18.4	193	5.48	0.5	1.3	8.60	0.675	0.15	0.86	
741458	1.32	0.14	2.2	131	8	411	7.71	2.1	3.7	43.3	79.5	13.8	0.1	12.5	14.0	121	4.62	0.5	1.5	8.21	0.990	0.07	1.19	
741459	0.89	0.13	1.4	56	7	286	4.68	2.2	3.3	23.5	95.0	8.79	< 0.1	8.9	17.3	185	2.44	0.3	2.7	10.1	0.544	0.09	1.58	
741460	0.59	0.08	2.4	58	18	292	4.86	3.2	9.0	20.6	75.3	7.70	< 0.1	6.1	13.9	58.7	2.36	0.4	1.7	8.75	0.782	0.12	1.08	
741461	0.52	0.12	1.6	39	8	235	2.70	2.3	4.2	13.1	96.7	5.43	< 0.1	4.7	14.1	183	2.82	0.2	1.5	6.69	3.60	0.31	0.81	
741462	0.99	0.06	1.7	34	4	196	3.34	1.0	1.7	30.8	54.9	4.95	< 0.1	6.8	13.1	128	2.68	0.8	0.4	9.04	1.48	0.26	0.60	
741463	1.73	0.10	0.5	31	4	327	2.92	1.1	1.8	50.7	65.8	5.14	< 0.1	6.1	14.7	156	3.08	< 0.1	0.4	10.7	0.847	0.16	0.72	
741464	0.51	0.51	2.3	61	20	499	3.08	5.7	13.5	25.5	189	6.42	< 0.1	5.9	15.0	59.3	11.3	0.1	0.6	2.23	0.360	0.05	1.01	
741465	0.45	0.29	2.1	45	13	393	2.18	4.3	10.2	25.1	137	4.78	< 0.1	3.2	13.0	46.5	5.28	< 0.1	0.6	1.50	0.270	0.04	0.59	
741466	0.32	0.14	2.0	55	14	145	2.53	2.2	4.5	8.38	45.1	7.43	< 0.1	2.8	10.8	37.2	2.69	0.5	1.7	0.82	0.343	0.02	0.96	
741467	0.32	0.26	2.8	63	19	256	2.49	4.2	7.3	14.9	101	6.88	< 0.1	2.5	17.3	65.5	3.41	0.8	1.7	1.12	0.847	0.03	0.96	
741468	0.34	0.41	1.0	40	14	648	1.76	4.4	7.4	16.9	157	5.26	< 0.1	2.5	11.7	67.6	4.82	< 0.1	0.4	1.19	0.563	0.02	0.64	
741469	0.43	0.34	1.0	54	13	559	2.99	4.5	6.1	44.0	208	6.35	< 0.1	5.5	15.6	83.5	9.64	0.2	0.7	2.47	0.458	0.02	0.79	
741470	0.59	0.26	2.4	57	7	372	2.33	1.5	2.2	11.6	80.3	9.64	< 0.1	4.8	12.6	61.3	2.87	0.7	1.2	2.85	0.322	0.03	0.85	
741471	0.27	0.15	4.2	82	5	476	3.95	12.7	5.2	38.6	198	8.53	< 0.1	2.6	30.7	22.9	3.27	0.9	0.5	1.40	0.216	0.04	0.74	
741472	0.58	0.25	1.5	53	9	626	4.11	4.3	3.7	22.5	144	15.6	< 0.1	3.8	15.9	38.4	3.60	0.4	7.1	2.74	0.368	0.04	3.78	
741473	0.72	0.34	3.2	64	11	553	3.58	5.9	6.2	33.6	271	8.23	< 0.1	4.5	11.9	68.8	4.74	1.7	2.3	1.66	0.216	0.05	0.85	
741474	0.62	0.41	3.2	60	12	1080	3.13	6.2	7.1	19.1	368	9.41	< 0.1	2.6	13.2	80.7	4.17	2.8	1.4	1.30	0.442	0.03	0.96	
741475	0.81	0.56	2.9	48	11	3240	3.33	16.7	7.0	25.9	940	6.73	< 0.1	3.0	30.3	100	5.64	0.3	1.0	1.86	0.405	0.03	0.74	
741476	1.34	0.58	3.3	55	12	4640	3.02	12.7	9.4	56.0	1070	7.68	< 0.1	1.9	25.7	106	8.78	0.7	1.0	2.33	0.255	0.05	0.82	
741477	0.44	0.48	3.1	60	15	1040	2.80	11.2	17.4	22.9	468	7.75	< 0.1	2.4	11.6	59.4	4.39	2.8	0.9	1.45	0.201	0.03	0.81	
741478	0.50	0.30	2.7	67	13	537	3.02	6.3	8.1	22.5	383	7.34	< 0.1	4.3	14.4	42.8	3.54	0.6	1.6	4.03	8.24	0.03	2.40	
741479	0.44	0.62	2.5	83	17	542	3.09	10.7	8.1	71.0	498	7.40	< 0.1	3.8	13.1	48.2	6.53	0.3	1.8	4.11	0.747	0.03	0.92	
741480	1.07	0.26	2.6	107	17	570	5.23	6.1	6.8	26.5	691	17.4	< 0.1	5.7	10.1	41.7	3.96	3.4	8.4	8.41	1.95	0.04	3.96	
741481	0.20	0.12	2.1	84	12	170	2.78	2.3	3.4	6.42	50.7	8.52	< 0.1	3.2	4.3	16.1	1.76	0.5	1.9	1.40	0.399	< 0.02	0.97	
741482	0.42	0.23	2.6	66	12	665	3.19	6.8	5.1	29.6	244	10.8	< 0.1	3.9	12.2	34.4	3.21	2.2	2.3	2.17	1.39	0.03	1.33	
741483	0.33	0.14	2.2	48	14	238	1.92	2.3	5.1	7.61	155	9.75	< 0.1	2.3	7.4	20.4	2.14	0.4	3.2	1.43	0.647	< 0.02	1.87	
741484	0.58	0.29	2.5	68	13	598	3.18	6.7	5.1	13.5	329	8.94	< 0.1	3.2	10.1	39.8	3.42	2.0	1.8	1.51	1.43	0.03	1.09	
741485	0.40	0.22	3.3	70	21	480	3.74	6.7	11.0	22.2	392	9.96	< 0.1	4.4	9.6	30.1	3.82	3.2	3.1	2.39	0.678	0.03	1.50	
741486	0.50	0.25	2.0	48	11	272	1.79	3.1	4.4	13.1	240	5.74	< 0.1	1.9	9.0	34.4	2.83	1.4	1.6	6.51	0.365	< 0.02	0.93	
741487	0.55	0.32	0.6	58	4	1440	3.57	7.7	3.6	27.7	388	5.20	< 0.1	8.2	18.2	44.5	6.65	0.4	0.2	2.85	0.475	0.04	0.75	
741488	0.32	0.19	0.2	39	3	489	3.00	2.9	1.3	11.8	73.4	1.83	< 0.1	5.4	16.6	36.6	5.00	< 0.1	0.2	2.43	0.193	< 0.02	0.68	
741489	1.07	0.16	0.1	48	7	392	3.60	3.0	3.5	34.3	96.8	5.45	< 0.1	5.5	11.9	40.7	2.98	0.3	0.9	2.13	0.534	0.05	0.98	
741490	0.21	0.22	0.3	58	11	786	3.36	6.2	8.6	12.5	96.8	5.19	< 0.1	15.2	15.4	23.1	3.83	0.2	0.1	1.19	0.174	0.03	0.56	
741491	1.76	0.24	< 0.1	34	4	2790	2.99	6.1	2.7	30.9	109	4.31	< 0.1	4.6	14.5	37.2	1.90	0.1	0.2	2.62	0.331	0.04	0.48	
741492	0.66	0.53	1.2	53	8	3230	3.75	8.9	5.3	36.0	219	5.47	< 0.1	7.9	22.4	48.2	4.79	1.6	0.5	5.24	0.263	0.06	0.71	

Results

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Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS																					
741493	0.77	0.34	0.8	71	4	582	4.53	5.1	2.8	93.9	419	8.61	< 0.1	8.4	10.6	136	6.77	1.2	0.3	10.7	0.526	0.08	0.65
741494	0.65	0.21	0.5	45	2	548	4.12	3.5	1.6	44.1	162	5.66	< 0.1	4.9	13.4	242	6.63	0.6	0.1	10.8	0.341	0.07	0.75
741495	1.41	0.25	1.9	49	5	345	3.38	1.2	2.5	85.8	91.9	8.75	< 0.1	5.3	10.3	271	3.86	0.4	3.0	5.98	3.07	0.07	1.33
741496	1.01	0.25	2.1	66	11	297	3.13	2.3	3.9	34.6	118	9.82	< 0.1	3.1	9.9	160	3.47	0.3	1.5	7.54	0.496	0.05	1.22
741497	0.98	0.10	1.7	40	10	250	3.58	2.1	4.7	30.9	57.8	4.96	< 0.1	6.1	13.0	77.6	2.57	0.7	1.6	5.45	1.57	0.08	0.53
741498	0.87	0.10	2.1	58	14	237	3.86	2.9	6.4	27.2	57.6	7.49	< 0.1	6.0	13.1	78.5	2.54	0.4	2.0	4.40	1.47	0.07	0.82
741499	0.98	0.15	1.6	48	9	251	3.11	1.7	3.3	18.2	54.1	7.74	< 0.1	5.9	11.8	57.0	2.37	< 0.1	1.6	3.96	1.97	0.08	0.91
741500	0.48	0.17	2.0	62	15	269	3.32	3.0	6.1	16.2	85.8	9.07	< 0.1	5.9	12.1	43.0	2.93	0.3	2.2	2.39	1.36	0.04	1.12
745914	0.07	1.17	5.5	68	33	434	2.52	8.5	20.4	21.0	46.7	5.59	0.1	3.4	5.6	60.2	9.16	7.0	0.2	2.57	0.283	0.03	0.80
745915	0.15	3.12	9.7	115	42	1100	5.78	22.3	27.3	144	97.4	10.3	0.1	11.7	8.8	235	18.4	9.8	0.4	2.87	0.140	0.04	1.16
718951	0.45	0.33	1.2	42	7	446	2.87	3.0	2.7	32.5	131	5.60	< 0.1	7.4	10.9	69.4	3.89	0.1	0.6	3.21	3.46	0.04	0.47
718952	0.61	0.32	1.8	57	8	490	3.48	3.6	3.8	28.4	158	9.04	< 0.1	7.1	14.7	60.6	3.47	0.3	1.9	4.60	0.837	0.03	1.12
718953	0.60	0.41	1.2	65	4	2140	4.03	11.4	3.7	32.0	405	8.03	< 0.1	5.0	14.0	56.6	8.82	0.3	0.3	2.38	0.271	0.06	0.76
718954	0.76	1.00	4.9	64	1	3140	5.40	18.6	2.2	98.5	536	6.92	< 0.1	8.2	10.8	122	22.9	0.3	0.2	6.81	0.530	0.06	0.59
718955	0.61	0.51	1.8	42	1	2900	4.57	19.5	2.3	129	834	4.89	< 0.1	7.6	12.1	60.6	16.3	0.4	0.2	6.89	0.465	0.05	0.51
718956	0.83	0.78	1.6	39	5	619	2.42	3.4	4.4	81.5	1950	7.31	< 0.1	2.7	17.4	79.4	30.0	1.1	0.6	2.60	0.403	0.05	0.54
718957	0.74	0.12	0.9	36	6	284	2.85	2.0	3.3	21.3	108	10.6	< 0.1	3.7	13.0	28.6	3.61	5.1	8.7	3.17	1.14	0.05	2.69
718958	1.68	0.14	0.4	58	4	199	2.29	0.8	1.3	20.8	56.5	10.3	< 0.1	4.5	10.9	39.4	2.48	0.1	1.5	4.36	1.29	0.06	1.32
718959	1.01	0.10	0.9	46	5	342	3.23	2.1	3.1	26.2	103	7.55	< 0.1	4.6	16.2	42.2	3.00	1.1	2.9	2.70	0.811	0.07	1.16
718960	1.11	0.10	0.7	54	5	284	4.31	1.6	1.9	22.3	68.6	9.71	< 0.1	7.2	11.3	40.4	2.48	0.3	3.4	3.61	0.807	0.14	1.54
718961	0.84	0.16	1.0	64	6	455	3.13	2.4	2.3	17.7	73.8	12.1	< 0.1	6.3	15.7	38.0	2.94	0.7	1.4	3.11	0.307	0.06	1.91
718962	0.54	0.21	0.7	57	5	567	3.27	4.1	3.2	28.0	105	7.54	< 0.1	6.7	11.1	48.3	4.06	0.5	0.4	2.76	0.471	0.05	0.77
718963	0.24	0.30	0.7	53	5	1640	4.32	6.7	3.4	25.0	158	5.85	< 0.1	6.0	14.9	32.2	7.10	0.5	0.4	3.13	0.419	0.03	0.61
718964	0.10	0.70	5.8	57	6	2870	3.98	12.3	5.4	14.4	179	7.92	< 0.1	5.0	19.6	53.9	25.3	2.6	0.4	1.00	0.151	0.03	0.53
718965	0.16	0.53	3.6	66	6	1900	3.24	7.0	4.9	31.2	246	7.54	< 0.1	2.4	27.1	44.9	8.26	1.4	0.3	1.82	0.161	0.03	0.58
718966	0.16	0.34	8.1	86	5	2140	5.97	13.5	5.4	89.3	364	7.59	< 0.1	7.7	13.8	53.0	11.3	1.4	0.8	13.8	2.06	0.05	0.81
718967	0.24	0.68	1.3	41	4	5000	2.77	16.6	3.3	28.7	173	4.01	< 0.1	2.7	16.5	38.2	5.53	1.5	0.5	2.11	0.386	0.02	0.38
718968	0.26	0.24	0.4	71	5	673	3.72	5.4	3.4	35.6	224	6.06	< 0.1	6.8	14.3	43.5	3.57	0.2	0.2	2.32	0.295	0.07	0.51
718969	0.56	0.19	0.4	58	6	1470	4.33	6.2	2.9	89.1	254	7.00	< 0.1	21.4	14.6	36.9	3.66	0.6	0.6	3.64	0.684	0.14	0.69
718970	0.24	0.20	0.7	56	5	828	3.10	4.2	3.3	17.8	168	7.67	< 0.1	4.5	16.5	33.5	4.02	0.7	0.8	1.13	0.961	0.03	0.82
718971	0.24	0.49	0.8	63	5	750	2.91	3.8	2.4	17.2	181	6.28	< 0.1	3.6	16.7	53.0	5.36	0.1	0.8	3.44	0.253	0.03	0.85
718972	0.44	0.24	1.1	55	7	550	2.82	4.2	3.9	20.2	119	9.10	< 0.1	4.3	16.4	44.1	3.71	0.2	1.0	2.28	0.475	0.05	1.19
718973	0.33	1.29	4.6	81	117	1280	4.00	12.6	17.0	74.6	264	5.70	< 0.1	5.9	11.5	99.3	10.1	0.9	0.9	3.64	0.406	0.03	0.65
718974	0.34	0.44	2.0	83	63	582	3.21	6.1	8.1	24.0	103	9.16	< 0.1	3.6	9.8	59.6	3.35	0.3	0.9	2.16	0.223	0.03	0.74
718975	0.39	1.09	4.1	83	146	1370	3.56	15.6	21.0	35.2	168	5.74	< 0.1	5.2	4.7	109	5.93	0.5	0.4	2.92	0.120	< 0.02	0.43
718976	0.63	1.09	2.5	77	112	1300	3.31	15.7	30.3	91.9	238	6.46	< 0.1	4.8	8.3	108	7.27	0.3	0.7	4.16	0.510	0.02	0.70
718977	0.40	1.30	5.5	84	182	1600	3.23	16.6	31.3	99.5	243	6.05	< 0.1	3.6	5.9	122	7.90	0.5	0.5	1.40	0.222	< 0.02	0.45
718978	0.61	1.16	5.1	102	103	1970	5.12	47.3	32.5	235	355	7.02	< 0.1	4.7	7.6	104	8.10	0.3	0.4	6.72	0.286	0.03	0.59
718979	1.05	0.77	3.1	117	169	1480	4.33	16.8	26.3	84.0	196	8.92	< 0.1	4.2	9.3	125	3.94	0.1	0.3	13.2	0.442	0.04	0.70
718980	0.91	1.20	7.9	91	134	1710	4.47	24.9	37.0	239	386	7.74	< 0.1	6.1	7.5	142	11.1	1.7	0.4	9.48	0.298	0.03	0.56
718981	0.79	1.56	9.3	127	179	3060	5.47	37.5	55.7	289	462	8.64	< 0.1	6.7	5.7	213	8.64	0.9	0.3	4.19	0.584	0.03	0.60
718982	0.40	0.36	2.7	110	64	2040	4.98	14.4	11.2	70.3	82.8	9.73	< 0.1	4.4	6.2	55.9	4.43	0.5	3.3	4.98	0.943	0.03	1.32

Results

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Report: A17-07491

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
718983	0.64	0.44	2.4	75	56	839	3.51	7.2	10.2	61.0	145	9.77	< 0.1	5.3	10.9	66.1	3.50	0.5	3.1	4.02	0.540	0.04	1.76
718984	0.65	0.35	2.6	84	14	910	4.23	5.4	4.8	113	158	10.9	< 0.1	6.3	10.1	51.0	4.61	0.3	2.2	3.12	0.315	0.04	1.88
718985	0.38	0.22	1.6	91	17	695	3.65	3.9	3.2	19.3	96.8	13.4	< 0.1	4.8	13.9	33.4	3.29	0.1	1.5	2.04	0.325	0.03	2.00
718986	0.75	0.52	3.5	73	19	2150	3.67	11.7	7.8	115	335	6.93	< 0.1	7.0	9.1	72.7	5.86	0.2	0.4	3.92	0.595	0.05	0.68
718987	0.92	0.67	4.8	72	6	1960	3.77	9.4	7.3	74.1	507	10.1	< 0.1	4.2	44.9	71.3	10.2	5.5	0.7	1.75	0.564	0.05	1.06
718988	0.64	0.38	2.9	75	10	1670	4.37	10.6	6.7	60.5	312	7.80	< 0.1	6.9	10.9	58.8	10.1	0.3	0.5	2.91	0.308	0.05	0.78
718989	0.66	0.79	6.6	86	8	2170	4.68	11.3	6.6	121	555	8.15	< 0.1	6.9	9.4	117	15.1	1.3	0.9	2.72	1.48	0.05	0.98
718990	0.55	0.80	6.2	72	9	2470	3.79	13.5	8.3	90.1	446	7.70	0.1	5.7	12.4	112	13.4	0.3	0.4	1.68	0.322	0.04	0.65
718991	1.45	1.17	9.8	95	< 1	3700	7.36	41.3	2.0	137	470	7.20	0.1	13.4	9.6	188	16.3	1.8	0.1	9.38	1.48	0.04	0.63
718992	1.62	0.57	6.4	53	1	2290	6.23	17.6	1.3	159	572	5.09	0.1	14.3	13.2	109	12.9	2.6	0.1	5.40	2.04	0.14	0.44
718993	1.12	0.78	6.3	62	2	2880	5.48	20.9	2.7	153	456	4.82	< 0.1	9.0	10.6	111	18.6	0.4	0.2	8.90	1.15	0.07	0.46
718994	0.66	0.24	1.3	57	9	1170	3.62	6.8	5.6	34.2	324	8.79	< 0.1	8.8	21.5	35.9	6.58	0.6	1.6	3.08	0.448	0.05	1.50
718995	1.37	0.33	6.7	33	6	4010	5.70	56.0	8.0	353	943	4.41	< 0.1	11.6	17.7	39.8	11.4	0.5	0.2	8.60	1.64	0.04	0.38
718996	0.72	0.19	1.0	56	5	873	3.97	7.1	3.1	53.4	211	6.70	< 0.1	6.9	21.4	39.2	5.08	0.5	0.4	6.83	0.508	0.03	0.56
718997	0.59	0.32	1.0	63	6	856	3.35	5.5	3.4	29.3	151	8.80	< 0.1	4.4	18.4	55.5	4.06	0.8	0.4	2.55	0.320	0.04	0.67
718998	0.74	0.18	0.6	50	8	815	3.35	4.8	4.5	33.4	161	9.39	< 0.1	5.9	13.6	37.3	4.94	0.9	2.3	4.19	0.411	0.05	1.58
718999	0.85	0.31	1.0	59	8	729	3.91	4.5	4.1	30.7	147	10.0	< 0.1	7.2	15.0	62.5	4.23	0.3	0.9	4.45	0.274	0.06	1.15
719000	0.84	0.17	0.3	46	5	274	2.26	1.8	2.2	21.2	71.5	7.98	< 0.1	4.7	15.1	43.2	2.71	0.1	1.6	3.25	0.577	0.04	1.05
745916	0.05	1.14	6.2	67	30	416	2.41	8.1	19.8	20.6	44.5	5.40	0.1	3.8	5.1	53.9	8.31	6.3	0.2	1.98	0.278	0.03	0.69
745917	0.13	3.34	11.9	123	42	1170	6.11	23.5	29.1	148	95.8	10.7	0.1	12.2	8.8	230	18.1	8.9	0.3	2.97	0.175	0.05	1.09
960350	0.77	0.41	3.7	68	8	1460	4.40	10.4	5.9	46.7	295	7.89	< 0.1	8.9	16.4	71.9	7.02	0.2	0.4	3.31	0.278	0.05	0.67
960351	0.49	0.40	1.9	52	8	824	3.01	4.9	4.4	23.8	158	9.04	< 0.1	4.3	15.5	62.8	5.28	0.2	1.1	2.75	0.412	0.04	1.29
960352	0.51	0.47	2.2	48	5	1300	3.83	7.8	3.8	40.2	165	5.88	< 0.1	4.1	11.3	80.8	5.01	< 0.1	0.3	4.14	0.521	0.03	0.43
960353	0.22	0.20	0.4	59	6	4280	4.15	10.8	3.8	17.2	112	6.70	< 0.1	4.0	20.1	31.5	5.25	0.4	0.5	1.27	0.325	0.03	0.73
960354	0.36	0.21	0.4	66	8	2420	4.35	7.4	4.9	21.3	158	9.50	< 0.1	6.3	16.6	32.9	5.31	0.3	1.1	1.82	0.259	0.04	1.25
960355	0.24	0.52	0.2	71	7	5030	4.23	14.5	4.7	26.5	263	5.43	0.1	8.9	15.5	36.9	3.61	0.4	0.6	2.09	0.269	0.02	0.91
960356	0.35	0.30	1.6	53	6	2300	3.72	8.9	4.6	46.1	303	6.22	< 0.1	10.2	16.1	34.0	7.07	0.6	0.3	1.86	0.334	0.07	0.55
960357	0.33	0.50	2.9	51	4	2250	4.18	10.2	4.0	77.6	523	5.66	< 0.1	6.5	17.3	38.3	19.9	0.2	0.2	2.54	0.403	0.04	0.54
960358	0.36	0.55	4.5	58	5	2360	4.36	11.7	5.7	57.0	235	6.29	0.1	9.2	13.2	46.3	14.5	0.2	0.4	5.59	0.641	0.04	0.73
960359	0.72	0.24	0.8	47	3	729	5.23	4.8	2.9	63.4	173	5.32	0.1	10.0	11.9	49.4	4.91	0.1	0.3	16.0	1.14	0.04	0.44
960360	0.56	0.21	2.8	59	5	760	6.41	5.2	3.6	77.3	138	7.28	0.1	12.3	17.8	52.6	12.8	0.4	0.4	16.1	1.79	0.05	0.72
960361	3.11	0.62	3.8	45	6	3050	3.69	9.9	5.5	387	537	6.08	< 0.1	4.4	18.4	75.2	12.7	0.2	0.4	2.02	1.54	0.03	0.70
960362	0.60	0.51	2.4	45	4	> 10000	3.89	14.1	2.6	14.1	178	6.12	< 0.1	9.7	24.9	35.5	6.93	1.8	0.2	8.57	0.406	0.03	0.53
960363	0.31	0.49	3.8	53	4	1910	3.62	9.3	4.0	35.8	180	5.49	< 0.1	2.4	17.9	40.2	16.5	0.2	0.2	1.05	0.155	0.03	0.59
960364	0.20	0.32	0.9	52	4	2380	3.25	8.7	4.0	16.9	151	5.42	< 0.1	3.1	16.6	33.8	6.11	0.4	0.2	1.38	0.109	0.02	0.50
960365	0.13	0.28	0.3	49	3	898	2.66	4.4	2.6	14.9	94.3	4.75	< 0.1	2.0	15.3	35.6	7.57	0.4	0.3	0.93	0.296	< 0.02	0.55
960366	0.42	0.40	1.5	50	2	2030	4.19	9.2	2.8	31.2	775	5.21	< 0.1	23.0	14.0	38.1	7.48	0.5	0.2	5.39	0.227	0.04	0.46
960367	0.58	0.64	4.2	44	3	2400	4.21	11.7	4.2	163	1030	5.71	< 0.1	20.0	17.1	51.7	16.4	0.4	0.2	4.57	1.54	0.03	0.56
960368	0.30	0.68	4.6	52	1	1640	3.28	9.1	2.0	76.1	376	4.73	< 0.1	5.1	13.1	51.5	17.8	1.9	0.2	2.28	0.308	0.02	0.49
960369	0.35	0.62	4.6	85	42	3160	4.37	17.3	15.2	163	492	7.97	< 0.1	7.7	16.6	79.3	9.16	0.4	0.2	1.85	0.416	0.04	0.69
960370	0.26	0.88	4.7	73	6	1560	3.66	9.7	4.8	64.2	323	7.15	< 0.1	4.5	11.1	91.3	11.2	0.5	0.4	1.10	0.226	0.03	0.69
960371	0.49	0.42	3.7	69	3	1870	3.89	10.2	3.0	29.9	126	4.56	< 0.1	2.2	12.6	18.8	25.4	0.6	0.1	1.11	0.192	0.02	0.68

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS																					
960372	0.15	0.12	0.3	20	4	1560	1.42	2.9	2.5	11.5	43.9	3.60	< 0.1	1.2	10.7	10.4	3.09	1.5	0.5	0.74	0.129	< 0.02	0.33
960373	0.31	0.21	1.0	39	10	1980	3.28	9.0	9.1	48.4	104	4.77	< 0.1	3.2	13.8	14.4	8.76	0.7	0.2	1.53	0.152	0.02	0.53
960374	0.49	0.30	0.9	43	7	1330	4.05	10.4	6.5	40.7	108	5.07	< 0.1	6.0	11.9	32.0	9.15	1.2	0.4	2.21	0.111	0.03	0.64
960375	1.14	0.58	4.3	48	5	2750	5.12	13.3	5.7	165	302	5.75	0.1	9.2	12.5	54.1	24.8	0.4	0.3	3.81	0.516	0.03	0.66
960376	0.42	0.66	5.2	45	7	3510	4.51	22.0	8.9	155	684	6.94	< 0.1	20.7	9.2	70.3	17.5	0.3	0.2	3.48	0.464	0.05	0.65
960377	0.07	1.11	6.0	62	1	1260	2.40	10.7	3.3	44.3	49.8	5.18	< 0.1	1.8	3.1	48.7	8.98	3.5	< 0.1	0.90	0.147	< 0.02	0.37
960378	0.26	0.34	5.6	60	7	4000	6.63	21.5	8.3	39.6	276	6.57	< 0.1	20.9	7.7	37.1	15.5	0.2	< 0.1	2.03	0.472	0.05	0.47
960379	0.05	0.54	3.3	90	1	2070	3.19	9.5	2.3	103	123	3.93	< 0.1	0.8	14.9	15.9	26.8	0.9	< 0.1	0.64	0.584	< 0.02	0.39
960380	0.21	0.12	0.8	41	6	1670	3.68	6.1	4.1	24.7	99.3	4.88	< 0.1	2.6	11.6	8.5	6.38	3.7	0.6	1.25	0.183	0.03	0.58
960381	0.23	0.33	0.8	52	9	875	3.67	6.5	5.5	27.7	107	5.39	< 0.1	2.8	17.1	18.8	13.7	1.3	0.6	1.53	0.542	0.03	1.13
960382	0.77	0.36	9.2	132	92	3070	6.33	27.8	37.2	308	237	8.72	< 0.1	16.0	13.0	35.3	9.70	0.2	0.1	2.34	0.300	0.05	0.58
960383	0.32	0.36	2.4	156	273	5340	6.56	35.5	64.2	60.2	232	10.7	< 0.1	15.6	11.6	36.7	4.36	0.3	0.3	1.90	0.354	0.05	1.05
960384	0.67	0.55	1.3	106	56	1690	4.51	10.7	10.9	59.0	228	8.66	< 0.1	5.1	11.5	79.2	4.07	0.1	0.1	1.96	0.216	0.04	0.79
960385	0.37	0.30	0.7	54	16	784	3.05	5.0	5.1	49.4	154	6.02	< 0.1	3.6	8.0	50.0	3.81	1.0	0.6	1.76	0.513	0.03	0.63
960386	0.43	0.44	2.8	119	39	1360	5.31	9.7	9.7	39.1	218	10.9	< 0.1	5.5	12.4	71.8	5.57	0.2	0.3	2.58	0.894	0.04	0.86
960387	0.46	0.60	3.4	76	39	1610	3.71	10.8	11.4	51.6	236	8.05	< 0.1	5.8	11.8	78.8	6.39	0.2	0.4	2.57	0.361	0.04	1.05
960388	0.85	1.68	13.6	148	290	3580	6.17	47.0	83.8	711	436	9.45	0.1	25.0	4.0	179	10.9	1.2	0.2	3.43	1.03	0.03	0.55
960389	0.92	0.12	0.4	66	5	278	3.81	1.6	1.8	37.4	83.9	9.37	< 0.1	4.6	5.9	39.8	3.33	0.2	0.8	2.39	0.662	0.05	0.73
960390	0.98	0.14	1.0	49	6	408	2.96	2.3	3.6	38.3	97.0	7.40	< 0.1	6.1	16.8	52.5	3.48	< 0.1	1.3	2.92	0.699	0.06	1.51
960391	0.41	0.16	1.6	84	8	473	4.94	4.1	4.0	14.6	84.4	9.91	< 0.1	9.8	12.5	28.9	3.32	0.1	0.8	1.72	0.577	0.04	0.97
960392	0.80	0.33	2.5	47	4	1200	3.79	9.3	3.6	43.5	200	4.56	< 0.1	9.7	7.2	49.9	7.14	0.3	0.4	3.01	0.546	0.05	0.46
960393	0.13	0.09	< 0.1	5	2	54	0.34	0.8	1.9	362	49.4	1.11	0.1	1.5	1.7	13.9	88.1	1.1	0.4	0.68	1.92	< 0.02	0.30
960394	0.87	1.15	5.5	65	3	2430	3.44	10.7	6.0	91.8	672	6.64	< 0.1	3.1	14.0	129	16.5	0.5	0.2	1.64	0.474	0.05	0.56
960395	0.75	0.51	6.4	55	1	2410	5.43	15.9	3.4	117	373	5.74	< 0.1	14.3	11.9	76.0	11.1	1.0	0.2	11.4	1.09	0.06	0.48
960396	0.99	0.57	8.9	71	3	1380	8.10	10.3	5.1	97.9	234	7.03	< 0.1	16.8	11.1	98.4	8.35	0.7	0.1	19.5	2.14	0.06	0.58

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm																				
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS																				
741451	0.38	0.17	0.89	1780	46.8	110	9.37	11.3	44.1	9.1	1.7	2.1	8.2	1.2	6.4	1.4	3.2	0.5	2.7	0.4	< 0.1	< 0.05	< 0.1
741452	0.21	0.14	0.14	1020	69.1	105	2.88	16.9	64.4	13.2	1.5	3.3	12.3	1.7	9.3	2.0	4.4	0.6	3.5	0.5	< 0.1	< 0.05	< 0.1
741453	0.34	0.44	0.50	92.2	14.1	31.1	2.51	3.1	10.9	1.8	1.1	0.4	1.4	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
741454	0.31	0.56	0.25	69.2	12.1	26.3	1.98	2.9	10.4	1.7	0.8	0.4	1.3	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
741455	0.38	0.30	0.61	271	11.8	20.8	0.72	2.4	8.83	1.7	1.0	0.4	1.3	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1	
741456	0.32	0.28	0.48	302	10.5	19.7	0.71	2.2	8.31	1.4	0.6	0.3	1.1	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
741457	0.51	0.54	1.00	129	17.1	34.6	0.60	4.3	16.6	3.3	1.5	0.8	2.7	0.4	1.8	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
741458	0.41	0.39	0.92	353	20.2	39.8	0.61	4.8	17.8	3.2	1.5	0.7	2.4	0.3	1.5	0.3	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
741459	0.26	0.28	0.53	261	16.9	32.8	0.72	3.8	13.8	2.4	1.5	0.5	1.6	0.2	0.8	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
741460	0.34	0.21	0.95	165	10.2	19.4	0.24	2.2	7.93	1.3	1.1	0.3	1.0	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
741461	0.23	0.52	0.68	165	17.9	35.5	0.59	4.3	16.2	3.0	2.0	0.7	2.0	0.2	1.0	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
741462	0.23	0.43	0.33	180	11.6	22.8	0.70	2.8	10.7	2.1	1.0	0.5	1.7	0.2	1.0	0.2	0.4	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
741463	0.20	0.64	0.44	153	14.1	27.7	1.47	3.4	13.2	2.5	0.9	0.6	2.0	0.2	1.2	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
741464	0.35	0.18	1.13	330	12.9	23.8	0.75	3.3	13.7	2.8	0.6	0.6	2.7	0.4	2.1	0.5	1.1	0.2	0.9	0.1	< 0.1	< 0.05	0.1
741465	0.25	0.20	1.11	220	10.7	21.2	0.67	2.4	8.74	1.7	0.3	0.4	1.5	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.1
741466	0.24	0.16	0.60	120	8.0	15.5	0.39	1.8	6.55	1.2	0.8	0.2	0.9	0.1	0.7	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
741467	0.27	0.12	0.93	122	8.6	16.8	0.54	2.0	7.23	1.3	0.4	0.3	1.1	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
741468	0.22	0.13	0.80	127	8.8	16.2	0.81	2.0	7.75	1.4	0.2	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
741469	0.30	0.27	0.86	219	8.8	16.9	2.63	2.2	8.36	1.7	1.2	0.4	1.9	0.3	1.8	0.4	0.9	0.1	0.7	< 0.1	< 0.1	< 0.05	0.2
741470	0.30	0.32	0.57	175	7.1	13.6	0.31	1.6	5.88	1.0	0.1	0.2	0.9	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
741471	0.21	0.10	1.92	257	4.9	9.80	0.46	1.1	4.14	0.9	0.6	0.2	0.8	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
741472	0.38	0.17	1.45	91.1	9.4	18.7	0.75	2.1	7.79	1.4	0.4	0.2	1.1	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.5
741473	0.39	0.22	1.41	117	8.7	16.8	0.67	2.0	7.40	1.4	0.9	0.3	1.3	0.2	1.1	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.4
741474	0.36	0.16	1.41	124	7.7	15.1	1.26	1.8	6.62	1.3	0.7	0.3	1.1	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.3
741475	0.39	0.14	2.37	392	8.6	19.2	13.3	2.0	7.47	1.4	0.8	0.3	1.4	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
741476	0.31	0.40	3.95	255	11.2	26.6	2.80	2.7	10.00	2.1	0.8	0.5	2.0	0.3	1.8	0.4	0.9	0.1	0.8	< 0.1	< 0.1	< 0.05	0.2
741477	0.34	0.17	1.54	200	7.1	14.6	0.96	1.7	6.24	1.2	0.7	0.3	1.1	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
741478	0.34	0.25	1.37	209	6.7	13.3	1.53	1.6	5.58	1.1	0.6	0.2	0.9	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.3
741479	0.30	0.15	1.17	416	9.9	18.9	7.58	2.2	8.59	1.6	0.8	0.4	1.6	0.2	1.2	0.3	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
741480	0.32	0.28	1.10	108	9.5	18.9	2.90	2.2	8.05	1.4	0.6	0.2	1.2	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.5
741481	0.31	0.08	0.39	59.1	4.6	8.86	0.25	1.0	3.70	0.6	0.5	0.1	0.6	< 0.1	0.4	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2
741482	0.28	0.10	0.99	93.4	6.1	12.1	0.87	1.4	5.22	1.0	0.5	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3
741483	0.20	0.08	0.49	78.0	7.3	14.4	0.87	1.7	6.08	1.0	< 0.1	0.2	0.8	0.1	0.5	0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1
741484	0.33	0.13	0.99	81.2	6.7	13.2	1.34	1.5	5.28	1.0	0.4	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3
741485	0.35	0.13	1.01	143	8.4	16.6	1.07	2.0	7.12	1.3	0.2	0.3	1.0	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.4
741486	0.26	0.10	0.71	208	6.2	12.3	1.06	1.5	5.32	0.9	0.5	0.2	0.8	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
741487	0.50	0.31	0.91	238	11.0	25.9	3.65	2.8	10.8	2.1	0.9	0.5	1.9	0.3	1.5	0.3	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
741488	0.48	0.37	1.25	303	11.4	23.8	1.38	2.9	11.2	1.8	0.4	0.4	1.3	0.2	1.0	0.2	0.6	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
741489	0.30	0.42	0.63	204	9.0	18.4	0.54	2.2	7.86	1.3	1.0	0.3	1.0	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
741490	0.42	0.06	0.64	255	9.9	25.3	0.39	2.1	7.80	1.3	0.8	0.3	1.2	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
741491	0.32	0.67	0.53	36.0	10.4	21.4	1.70	2.3	7.92	1.2	0.7	0.3	0.8	< 0.1	0.4	< 0.1	0.2	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
741492	0.63	0.26	0.69	346	12.9	34.0	2.70	3.0	11.5	2.1	0.8	0.5	1.8	0.2	1.1	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
741493	0.34	0.36	0.73	274	14.4	26.8	1.49	3.0	11.2	2.1	1.0	0.5	1.9	0.3	1.4	0.3	0.7	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1
741494	0.25	0.28	0.41	132	15.2	31.0	1.60	3.7	14.4	2.7	0.8	0.7	2.5	0.3	1.8	0.4	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
741495	0.31	0.58	0.38	222	12.3	23.2	1.22	2.7	9.93	1.9	1.2	0.5	1.7	0.2	1.2	0.2	0.5	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
741496	0.35	0.30	0.45	154	11.1	21.0	1.32	2.5	9.11	1.6	0.7	0.4	1.4	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
741497	0.28	0.53	0.59	201	9.9	19.5	0.34	2.4	8.60	1.6	1.4	0.4	1.3	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
741498	0.36	0.41	0.82	169	9.9	19.1	0.18	2.3	8.28	1.5	1.0	0.3	1.2	0.2	0.8	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
741499	0.31	0.54	0.58	160	11.1	21.3	0.36	2.4	8.95	1.5	0.7	0.3	1.1	0.1	0.7	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
741500	0.28	0.19	0.76	106	9.3	17.8	0.51	2.1	7.40	1.2	0.5	0.3	1.1	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
745914	0.39	0.04	0.41	120	5.7	12.3	0.18	1.8	7.85	1.8	0.2	0.5	2.0	0.3	1.9	0.5	1.1	0.2	0.9	0.1	0.3	< 0.05	6.9
745915	0.41	0.07	1.99	204	16.9	37.9	0.17	5.2	21.8	4.6	0.7	1.2	4.9	0.7	3.9	0.8	1.8	0.3	1.4	0.2	0.1	< 0.05	0.2
718951	0.30	0.32	0.68	102	7.8	15.3	1.03	1.8	6.70	1.2	0.8	0.3	1.1	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
718952	0.33	0.24	1.11	128	7.6	14.7	1.14	1.7	6.33	1.1	0.5	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
718953	0.49	0.17	1.05	216	11.5	31.0	1.80	3.1	12.1	2.5	0.5	0.6	2.5	0.4	2.1	0.5	1.0	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
718954	0.58	0.38	0.80	359	24.5	57.2	7.16	6.8	27.7	6.0	0.8	1.6	6.0	0.9	4.9	1.1	2.6	0.4	2.2	0.3	< 0.1	< 0.05	< 0.1
718955	0.41	0.19	1.00	301	17.7	43.6	6.13	4.9	20.0	4.2	0.8	1.1	4.3	0.7	3.8	0.8	1.8	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1
718956	0.13	0.15	0.99	126	24.8	30.7	7.71	6.4	26.8	5.4	1.1	1.3	6.1	0.8	4.5	1.1	2.3	0.3	1.6	0.2	< 0.1	< 0.05	< 0.1
718957	0.23	0.27	0.98	151	13.0	25.1	0.57	2.9	10.6	1.8	1.0	0.3	1.5	0.2	1.1	0.2	0.4	< 0.1	0.3	< 0.1	0.1	< 0.05	0.1
718958	0.24	0.54	0.82	217	11.6	22.9	0.28	2.8	9.90	1.6	0.8	0.4	1.2	0.2	0.7	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
718959	0.27	0.33	0.95	278	11.2	21.5	0.50	2.6	9.34	1.6	0.9	0.4	1.3	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
718960	0.29	0.29	0.56	265	10.5	20.1	0.54	2.3	8.09	1.4	1.3	0.3	1.1	0.1	0.7	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
718961	0.32	0.22	1.31	132	9.8	18.9	0.26	2.2	8.05	1.3	1.0	0.3	1.1	0.1	0.8	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
718962	0.33	0.17	0.69	101	8.9	17.7	0.56	2.1	7.69	1.4	0.7	0.4	1.3	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
718963	0.13	0.41	1.54	146	9.7	24.5	0.73	2.5	9.75	2.0	1.8	0.5	1.9	0.3	1.6	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
718964	0.48	0.09	2.79	235	17.6	51.7	0.48	5.4	23.9	5.3	1.5	1.6	5.8	0.9	4.9	1.1	2.7	0.4	2.3	0.3	< 0.1	< 0.05	< 0.1
718965	0.53	0.11	2.29	185	11.1	28.3	0.49	2.5	9.79	2.0	0.9	0.6	2.0	0.3	1.7	0.4	0.9	0.1	0.8	0.1	< 0.1	< 0.05	0.1
718966	1.12	0.37	1.30	147	24.7	53.1	1.50	5.9	21.1	3.9	1.9	0.9	3.5	0.5	2.6	0.5	1.2	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
718967	0.40	0.17	0.92	87.9	5.4	14.9	2.78	1.4	5.64	1.2	1.2	0.3	1.3	0.2	1.1	0.3	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
718968	0.44	0.31	0.78	138	7.5	15.3	1.47	1.7	6.42	1.2	0.8	0.3	1.1	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
718969	0.45	0.29	0.80	151	7.4	15.4	1.60	1.7	6.34	1.1	1.1	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
718970	0.23	0.10	0.92	130	7.1	14.9	1.25	1.6	5.79	1.2	0.8	0.3	1.1	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
718971	0.33	0.09	0.47	178	7.1	11.7	3.18	1.7	6.46	1.2	0.8	0.3	1.2	0.2	1.0	0.2	0.5	< 0.1	0.5	0.1	< 0.1	< 0.05	0.1
718972	0.28	0.17	0.97	101	8.7	17.1	0.38	1.9	7.10	1.3	0.7	0.3	1.1	0.1	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
718973	0.49	0.20	0.56	180	9.5	21.5	1.16	2.5	9.82	2.0	0.9	0.5	2.1	0.3	1.9	0.4	1.0	0.1	0.8	0.1	< 0.1	< 0.05	0.2
718974	0.32	0.15	0.72	81.1	5.4	10.8	0.37	1.2	4.57	0.9	1.0	0.2	0.8	0.1	0.7	0.2	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
718975	0.50	0.22	0.41	53.1	5.1	12.5	0.82	1.4	5.69	1.2	0.7	0.3	1.3	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
718976	0.48	0.26	0.90	87.5	7.6	18.1	1.39	2.0	8.17	1.7	1.2	0.4	1.8	0.3	1.5	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	0.2
718977	0.49	0.14	0.60	120	5.9	12.3	1.17	1.7	6.93	1.6	1.0	0.4	1.7	0.3	1.4	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	0.2
718978	0.38	0.35	0.90	121	6.7	14.4	2.04	1.8	7.51	1.6	1.2	0.5	1.8	0.3	1.5	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
718979	0.47	0.47	1.43	117	4.3	8.36	0.77	1.1	4.35	0.9	0.8	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
718980	0.65	0.49	0.87	139	8.9	17.2	1.64	2.5	10.5	2.2	1.3	0.6	2.3	0.3	2.0	0.5	1.1	0.2	0.9	0.1	< 0.1	< 0.05	0.2
718981	0.83	0.69	0.83	58.1	6.3	18.4	2.95	1.9	8.07	1.9	1.0	0.5	2.0	0.3	1.7	0.4	0.9	0.1	0.8	< 0.1	< 0.1	< 0.05	0.3
718982	0.39	0.26	0.82	45.4	5.6	12.2	0.77	1.4	5.73	1.2	1.5	0.3	1.2	0.2	1.0	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
718983	0.46	0.25	1.24	60.3	6.9	13.9	0.62	1.6	5.95	1.1	1.4	0.2	1.0	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
718984	0.54	0.37	1.26	73.7	7.9	16.1	0.43	1.8	6.77	1.3	0.9	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
718985	0.50	0.21	1.10	73.0	6.8	13.6	0.24	1.5	5.48	1.0	0.7	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
718986	0.56	0.94	0.86	60.7	8.7	18.0	1.32	2.0	7.65	1.5	1.1	0.4	1.5	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
718987	0.26	0.40	4.23	547	10.6	21.0	1.81	2.8	11.9	2.4	1.0	0.6	2.6	0.4	2.1	0.5	1.1	0.2	1.0	0.1	0.2	< 0.05	< 0.1
718988	0.49	0.50	1.16	129	14.5	30.4	1.25	3.5	13.1	2.7	1.6	0.6	2.5	0.4	2.1	0.5	1.1	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
718989	0.71	0.55	1.20	109	16.2	39.3	2.86	4.4	17.3	3.6	1.2	0.9	3.5	0.5	3.0	0.7	1.6	0.2	1.4	0.2	< 0.1	< 0.05	0.1
718990	0.60	0.36	1.55	108	13.6	39.7	2.29	4.1	17.5	3.8	1.1	1.0	3.8	0.5	3.0	0.7	1.5	0.2	1.4	0.2	< 0.1	< 0.05	< 0.1
718991	0.98	1.16	0.80	304	9.6	25.0	4.05	3.0	12.7	3.0	0.7	0.7	3.5	0.5	3.1	0.7	1.7	0.2	1.3	0.2	< 0.1	< 0.05	0.1
718992	0.64	1.05	0.78	53.3	16.6	39.2	4.03	4.8	18.9	3.7	0.9	0.9	3.3	0.5	2.7	0.6	1.4	0.2	1.1	0.1	< 0.1	< 0.05	0.1
718993	0.68	0.50	0.91	490	13.7	34.0	2.91	4.0	16.9	3.7	0.5	1.0	3.9	0.6	3.4	0.8	1.8	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1
718994	0.39	0.41	1.41	101	12.0	26.4	0.92	2.8	10.7	2.0	0.3	0.5	1.9	0.3	1.4	0.3	0.7	< 0.1	0.6	< 0.1	< 0.1	< 0.05	0.1
718995	0.61	2.11	1.72	216	12.0	46.5	8.49	3.7	15.6	3.8	1.8	1.0	3.4	0.5	2.9	0.6	1.6	0.2	1.6	0.2	< 0.1	< 0.05	< 0.1
718996	0.31	0.39	0.98	177	11.0	21.8	1.39	2.4	8.59	1.6	1.3	0.4	1.4	0.2	1.1	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
718997	0.30	0.22	0.92	142	8.6	16.9	0.55	2.0	7.29	1.3	1.5	0.4	1.2	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
718998	0.29	0.29	0.91	148	10.3	21.2	0.65	2.4	9.06	1.7	0.9	0.4	1.5	0.2	1.2	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
718999	0.39	0.29	1.06	121	10.2	19.7	0.49	2.3	8.46	1.5	0.8	0.4	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
719000	0.25	0.33	0.84	200	9.2	17.5	0.41	2.0	6.97	1.2	1.1	0.3	1.0	0.1	0.7	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
745916	0.36	0.05	0.37	103	4.9	10.6	0.20	1.5	6.60	1.5	0.7	0.4	1.7	0.3	1.6	0.4	0.8	0.1	0.8	0.1	0.2	< 0.05	5.6
745917	0.41	0.06	1.87	191	16.4	36.3	0.17	4.9	20.4	4.3	0.9	1.1	4.4	0.6	3.4	0.8	1.7	0.2	1.3	0.2	< 0.1	< 0.05	0.2
960350	0.42	0.37	0.97	143	11.2	24.2	1.04	2.7	10.2	1.9	0.3	0.5	1.8	0.3	1.4	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
960351	0.30	0.15	1.51	79.8	9.4	18.2	0.58	2.2	8.05	1.5	0.9	0.4	1.4	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.1
960352	0.37	0.27	0.60	64.5	6.8	14.3	0.81	1.6	5.90	1.2	0.9	0.3	1.1	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
960353	0.28	0.12	1.39	166	7.7	19.5	0.63	1.9	7.03	1.3	0.8	0.3	1.3	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.1
960354	0.42	0.21	1.37	141	8.4	21.6	0.71	2.0	7.50	1.5	1.1	0.3	1.4	0.2	1.1	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.1
960355	0.54	0.13	1.08	263	6.2	17.4	2.63	1.4	5.26	0.9	0.8	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
960356	0.39	0.20	1.27	96.2	9.1	23.7	1.00	2.3	9.04	1.8	0.5	0.5	1.8	0.3	1.5	0.3	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
960357	0.48	0.22	1.94	205	19.1	39.7	2.50	5.3	21.3	4.5	1.0	1.2	4.7	0.7	3.9	0.9	2.0	0.3	1.6	0.2	< 0.1	< 0.05	< 0.1
960358	0.59	0.21	1.93	161	15.0	36.7	0.90	4.2	17.0	3.6	0.8	0.9	3.4	0.5	2.9	0.7	1.5	0.2	1.3	0.2	< 0.1	< 0.05	< 0.1
960359	0.63	1.05	1.55	171	15.3	29.9	1.03	3.3	11.2	1.9	1.1	0.5	1.5	0.2	1.2	0.3	0.6	< 0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
960360	0.64	1.02	2.12	183	19.8	40.5	0.29	5.0	19.1	3.8	1.3	1.0	3.6	0.5	2.9	0.6	1.4	0.2	1.1	0.2	< 0.1	< 0.05	< 0.1
960361	0.57	0.39	2.63	172	13.3	34.9	3.28	3.6	14.6	3.0	0.7	0.8	3.1	0.4	2.4	0.6	1.3	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1
960362	0.29	0.20	3.09	417	9.4	41.1	2.54	2.3	9.07	1.8	0.8	0.5	1.9	0.3	1.4	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
960363	0.29	0.14	2.45	195	15.6	39.1	0.92	4.5	18.7	4.1	1.0	1.1	4.1	0.6	3.3	0.7	1.8	0.2	1.5	0.2	< 0.1	< 0.05	< 0.1
960364	0.36	0.12	2.04	147	7.9	24.9	0.69	2.1	8.21	1.6	0.6	0.4	1.6	0.2	1.3	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
960365	0.28	0.08	1.54	174	9.6	22.6	0.56	2.4	9.19	1.9	0.9	0.5	2.0	0.3	1.7	0.4	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
960366	0.43	0.13	1.35	130	10.5	22.9	3.01	2.6	10.3	2.0	0.6	0.6	1.9	0.3	1.6	0.4	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1
960367	0.66	0.12	2.19	170	15.7	34.9	6.91	4.5	18.4	4.1	0.8	1.2	4.1	0.6	3.5	0.8	1.8	0.3	1.6	0.2	< 0.1	< 0.05	0.1
960368	0.48	0.14	1.68	179	16.7	34.0	3.00	4.6	18.8	4.0	0.3	1.1	4.1	0.6	3.5	0.8	1.9	0.3	1.8	0.3	< 0.1	< 0.05	0.1
960369	0.39	0.17	1.50	137	9.0	26.9	2.39	2.5	10.3	2.2	1.0	0.6	2.5	0.4	2.0	0.5	1.0	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
960370	0.50	0.15	1.68	89.6	11.7	31.1	1.42	3.2	13.0	2.8	0.4	0.7	3.0	0.4	2.4	0.5	1.3	0.2	1.1	0.1	< 0.1	< 0.05	0.1
960371	0.35	0.07	0.96	225	29.9	48.1	1.07	7.5	29.6	6.0	0.5	1.7	6.2	0.8	4.6	1.1	2.4	0.3	2.0	0.3	< 0.1	< 0.05	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07491

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
960372	0.20	0.04	0.54	137	5.5	9.79	0.25	1.3	4.73	0.9	0.8	0.3	1.0	0.1	0.7	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1	
960373	0.29	0.04	0.99	148	13.1	46.6	0.29	3.5	13.9	2.8	0.5	0.7	2.9	0.4	1.9	0.4	0.9	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1	
960374	0.38	0.16	1.07	263	9.4	26.6	0.30	2.4	9.31	2.0	0.9	0.5	2.1	0.3	1.9	0.4	1.1	0.2	0.9	0.1	< 0.1	< 0.05	0.2	
960375	0.73	0.19	1.36	473	26.9	60.1	1.53	7.4	30.5	6.3	1.1	1.9	6.4	0.9	4.8	1.1	2.6	0.4	2.2	0.3	< 0.1	< 0.05	< 0.1	
960376	0.81	0.25	1.16	162	20.0	58.7	4.64	5.8	23.0	4.9	1.1	1.5	4.8	0.7	3.6	0.8	1.9	0.3	1.7	0.3	< 0.1	< 0.05	< 0.1	
960377	0.09	< 0.02	0.57	36.7	5.9	14.6	0.23	1.9	8.33	2.0	0.7	0.5	2.1	0.3	1.7	0.4	1.0	0.2	1.0	0.2	< 0.1	< 0.05	< 0.1	
960378	1.22	0.22	0.37	337	19.9	74.0	1.64	4.5	17.1	3.6	0.7	1.1	3.8	0.5	3.0	0.7	1.6	0.2	1.3	0.2	< 0.1	< 0.05	< 0.1	
960379	0.20	0.06	1.18	533	26.7	43.7	0.76	6.7	27.1	5.6	0.3	1.7	6.0	0.8	4.6	1.1	2.6	0.4	2.4	0.4	< 0.1	< 0.05	< 0.1	
960380	0.22	0.06	0.73	122	7.8	20.4	0.44	1.9	7.39	1.5	0.6	0.4	1.6	0.3	1.4	0.3	0.7	0.1	0.6	< 0.1	0.1	< 0.05	0.1	
960381	0.24	0.07	1.52	329	19.1	28.0	0.34	4.9	20.0	4.0	0.6	1.1	4.0	0.5	2.9	0.6	1.4	0.2	1.1	0.2	< 0.1	< 0.05	0.1	
960382	0.64	0.13	1.58	122	9.2	26.5	0.69	2.5	10.0	2.2	0.1	0.6	2.6	0.4	2.2	0.5	1.1	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1	
960383	0.47	0.13	1.54	221	4.5	13.7	1.13	1.2	4.73	1.0	1.1	0.3	1.2	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.05	0.1		
960384	0.39	0.45	0.67	106	7.1	13.9	0.85	1.6	5.94	1.1	0.8	0.3	1.1	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
960385	0.28	0.25	0.40	82.5	5.9	11.2	1.20	1.4	5.39	1.0	1.1	0.3	1.1	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
960386	0.36	0.36	1.09	80.8	7.2	14.2	0.72	1.8	6.95	1.4	0.7	0.4	1.4	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.05	< 0.1		
960387	0.47	0.24	1.02	58.7	8.2	17.9	0.93	2.1	8.17	1.7	0.4	0.4	1.7	0.2	1.4	0.3	0.7	0.1	0.6	< 0.1	< 0.05	< 0.1		
960388	0.79	0.30	0.60	44.5	4.7	11.2	3.48	1.7	7.86	2.2	0.8	0.6	2.6	0.4	2.3	0.5	1.2	0.2	1.0	0.2	< 0.1	< 0.05	0.1	
960389	0.21	0.20	0.25	138	8.0	15.2	0.41	2.0	7.44	1.4	0.3	0.3	1.3	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.05	< 0.1		
960390	0.25	0.26	0.80	196	12.4	22.9	0.53	2.8	10.2	1.8	0.6	0.4	1.4	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.05	< 0.1		
960391	0.34	0.20	0.70	93.9	8.1	15.1	0.34	1.8	6.57	1.2	0.4	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.05	< 0.1		
960392	0.43	0.40	0.46	205	12.1	24.7	1.32	3.0	11.5	2.2	1.0	0.5	2.1	0.3	1.6	0.4	0.8	0.1	0.7	< 0.1	< 0.05	< 0.1		
960393	0.11	0.05	0.23	65.8	24.1	32.6	0.74	9.4	45.0	11.9	2.7	3.6	18.8	3.0	18.8	4.6	10.5	1.5	8.0	1.0	< 0.1	< 0.05	< 0.1	
960394	0.47	0.31	1.85	167	14.7	31.7	5.28	4.1	16.9	3.7	0.5	1.0	3.9	0.6	3.3	0.8	1.9	0.3	1.8	0.3	< 0.1	< 0.05	< 0.1	
960395	0.68	1.23	1.82	147	11.7	28.5	1.73	3.5	14.7	3.4	1.4	0.9	3.5	0.5	2.8	0.6	1.5	0.2	1.5	0.2	< 0.1	< 0.05	< 0.1	
960396	0.79	1.76	1.56	128	12.0	26.4	0.92	3.4	14.0	3.1	1.2	0.7	2.8	0.4	2.1	0.5	1.1	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
741451	0.006	7.3	0.17	3950	1.7	1.9	140
741452	< 0.001	10.0	0.06	34.7	0.7	6.4	120
741453	0.003	6.3	0.08	271	0.1	0.9	20
741454	0.001	15.1	0.09	304	0.2	1.0	60
741455	0.004	15.8	0.10	52.0	0.1	1.1	50
741456	< 0.001	2.8	0.10	64.8	0.1	0.8	20
741457	0.001	0.9	0.19	137	1.2	2.1	80
741458	0.003	2.4	0.15	121	1.2	1.7	60
741459	0.005	8.4	0.24	155	0.7	1.0	60
741460	0.010	20.9	0.19	54.2	1.5	0.7	80
741461	0.013	67.0	0.24	116	1.5	1.2	80
741462	0.013	52.6	0.23	78.1	2.1	0.9	50
741463	0.043	88.0	0.23	171	0.3	1.0	70
741464	0.005	8.0	0.14	31.6	0.3	1.0	50
741465	0.004	5.8	0.17	35.1	0.5	0.8	< 10
741466	0.006	5.3	0.11	25.1	1.1	0.6	60
741467	0.005	9.2	0.11	23.8	1.5	0.6	50
741468	0.004	3.5	0.11	28.7	0.2	0.7	90
741469	0.005	7.6	0.09	30.6	0.1	0.8	80
741470	0.008	9.4	0.22	70.9	1.5	0.9	60
741471	0.003	4.6	0.18	10.5	1.4	0.7	60
741472	0.007	7.0	0.16	23.2	0.4	0.8	30
741473	0.008	9.9	0.12	30.7	2.4	1.0	130
741474	0.005	62.6	0.16	25.0	2.2	0.9	100
741475	0.008	1.4	0.20	57.0	0.9	0.9	30
741476	0.002	7.3	0.22	214	1.8	1.0	60
741477	0.005	6.6	0.11	29.6	1.7	0.7	70
741478	0.002	50.0	0.09	33.0	1.2	0.6	50
741479	0.003	132	0.06	30.0	0.8	0.8	60
741480	0.004	< 0.5	0.09	52.9	2.6	0.7	80
741481	0.007	6.8	0.08	11.9	1.0	0.4	20
741482	0.004	2.2	0.12	30.0	2.0	0.7	130
741483	0.005	1.4	0.11	16.9	1.2	0.4	130
741484	0.003	1.3	0.11	23.8	2.2	0.8	70
741485	0.007	1.9	0.09	20.9	2.5	0.7	90
741486	0.006	< 0.5	0.09	12.9	1.3	0.5	60
741487	0.006	12.6	0.15	123	0.3	1.1	40
741488	0.009	6.0	0.09	21.1	0.1	1.4	60
741489	0.010	2.4	0.12	49.9	< 0.1	0.8	50
741490	0.004	8.1	0.09	23.7	0.1	1.0	50
741491	0.006	2.1	0.09	44.3	< 0.1	0.7	60
741492	0.005	15.5	0.11	225	0.4	1.0	30

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
741493	0.008	13.5	0.13	73.3	0.3	1.5	50
741494	0.006	22.0	0.17	71.5	0.2	2.0	90
741495	0.014	20.7	0.16	62.4	1.5	0.8	80
741496	0.013	20.7	0.14	85.6	0.9	0.9	50
741497	0.018	13.3	0.17	86.0	1.2	1.5	110
741498	0.005	8.3	0.18	60.2	1.9	1.0	80
741499	0.009	14.0	0.21	110	0.9	0.9	90
741500	0.010	1.5	0.14	33.9	1.1	0.8	120
745914	0.007	7.1	0.09	4.43	1.3	0.4	90
745915	0.011	5.7	0.11	10.0	2.0	0.9	40
718951	0.003	8.3	0.09	28.8	0.3	1.0	100
718952	< 0.001	5.7	0.12	64.9	0.5	0.9	80
718953	0.004	11.4	0.15	181	0.2	1.6	70
718954	0.009	6.4	0.11	304	1.7	2.4	60
718955	0.005	15.5	0.15	261	0.4	1.7	70
718956	0.005	9.2	0.26	145	0.5	1.7	70
718957	0.005	9.2	0.18	60.4	0.6	0.9	100
718958	0.006	1.1	0.27	109	< 0.1	0.8	50
718959	0.010	11.6	0.20	70.2	0.3	1.0	60
718960	< 0.001	5.5	0.20	128	0.1	1.0	120
718961	0.010	0.6	0.31	66.3	0.2	0.9	30
718962	0.008	8.5	0.18	40.7	0.3	1.1	20
718963	0.003	9.0	0.11	153	0.2	0.7	80
718964	0.007	5.3	0.14	53.1	1.5	1.2	100
718965	0.007	4.2	0.35	72.3	1.1	1.1	80
718966	0.008	10.6	0.23	678	2.4	1.7	90
718967	0.006	6.0	0.13	201	0.4	0.5	140
718968	0.005	8.8	0.10	35.6	0.1	0.8	110
718969	0.007	8.5	0.11	68.1	0.2	0.8	80
718970	0.005	16.8	0.14	43.8	0.2	0.6	90
718971	0.004	4.9	0.09	21.8	< 0.1	0.8	50
718972	0.006	2.4	0.14	37.0	0.1	0.8	40
718973	0.010	10.1	0.07	40.3	0.9	11.2	< 10
718974	0.002	16.8	0.11	33.9	0.2	0.9	90
718975	0.004	9.7	0.05	43.9	0.4	0.7	40
718976	0.005	11.1	0.06	48.5	0.2	3.0	20
718977	0.006	14.2	0.06	32.6	0.4	3.3	60
718978	0.007	12.1	0.05	56.0	0.4	2.8	90
718979	0.004	22.3	0.11	69.2	0.1	1.0	70
718980	0.008	12.7	0.10	73.0	1.5	2.1	50
718981	0.006	3.1	0.07	131	1.3	0.8	80
718982	0.010	93.8	0.08	41.8	0.3	0.7	80

Results**Activation Laboratories Ltd.****Report: A17-07491**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
718983	0.005	9.6	0.11	61.0	0.3	0.8	60
718984	0.010	11.3	0.17	68.3	0.3	0.8	80
718985	0.009	11.1	0.25	47.5	0.1	0.7	50
718986	0.009	9.9	0.11	134	0.5	0.9	80
718987	0.009	5.4	0.33	89.9	1.3	2.4	100
718988	0.008	11.8	0.14	69.9	0.5	1.6	120
718989	0.007	4.2	0.09	80.8	2.9	1.7	90
718990	0.004	13.5	0.10	64.2	1.1	1.5	100
718991	0.011	33.0	0.11	132	1.1	0.6	50
718992	0.004	106	0.14	164	2.3	1.2	70
718993	0.007	34.0	0.11	87.5	1.4	1.0	20
718994	0.007	2.6	0.17	209	0.2	1.2	80
718995	0.007	53.5	0.14	274	3.9	3.6	60
718996	0.005	5.2	0.17	83.2	0.3	1.2	100
718997	0.005	14.8	0.20	64.0	0.3	0.8	130
718998	0.007	8.9	0.20	71.7	0.2	1.0	80
718999	0.005	7.2	0.19	96.9	0.2	1.0	110
719000	0.004	7.8	0.21	79.4	< 0.1	0.9	80
745916	0.003	8.3	0.08	3.70	1.0	0.4	40
745917	0.016	8.4	0.10	8.73	1.8	0.7	< 10
960350	0.004	5.8	0.13	87.0	1.0	1.0	50
960351	0.009	6.5	0.13	53.7	0.3	0.9	20
960352	0.005	12.6	0.09	48.0	0.5	1.0	50
960353	0.007	11.5	0.12	54.2	0.1	1.3	70
960354	0.004	0.7	0.14	65.0	< 0.1	0.8	50
960355	0.005	7.0	0.08	157	< 0.1	0.7	90
960356	0.005	9.7	0.19	87.6	0.3	0.8	100
960357	0.005	43.2	0.16	368	0.4	1.6	60
960358	0.006	10.7	0.14	81.5	1.0	1.4	80
960359	0.007	10.0	0.14	112	0.1	1.2	80
960360	0.004	13.9	0.23	107	0.4	1.6	70
960361	0.011	9.4	0.17	304	1.5	1.7	40
960362	0.004	177	0.34	78.8	0.8	1.3	120
960363	0.010	12.4	0.16	32.1	1.0	1.5	90
960364	0.007	4.5	0.12	32.6	0.2	1.1	70
960365	0.005	6.8	0.12	31.6	0.1	1.0	90
960366	0.007	97.8	0.13	232	0.4	1.0	80
960367	0.007	1150	0.16	384	2.9	2.9	40
960368	0.007	11.3	0.10	211	2.6	1.6	60
960369	0.004	5.8	0.13	155	0.7	0.9	60
960370	0.007	19.7	0.10	114	1.3	1.1	60
960371	0.006	1.9	0.12	43.3	2.7	1.4	80

Results**Activation Laboratories Ltd.****Report: A17-07491**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
960372	0.009	6.4	0.10	19.6	0.4	0.7	60
960373	0.004	8.1	0.12	46.2	0.5	1.1	30
960374	0.007	7.7	0.11	31.8	0.5	1.4	10
960375	0.008	3.5	0.12	57.3	1.2	2.9	60
960376	< 0.001	11.0	0.11	680	2.3	1.7	150
960377	0.008	0.8	0.04	7.81	2.1	1.4	50
960378	0.005	7.4	0.11	53.0	1.9	1.7	80
960379	0.006	< 0.5	0.10	79.1	2.8	1.3	50
960380	0.002	10.6	0.13	17.5	0.9	1.0	110
960381	0.002	12.4	0.13	17.3	0.4	1.1	40
960382	0.006	15.0	0.14	31.4	0.7	0.6	50
960383	0.005	5.0	0.11	107	0.1	0.4	80
960384	0.007	4.5	0.09	63.0	0.1	0.7	100
960385	0.007	8.9	0.09	43.2	0.3	0.8	90
960386	0.009	7.3	0.14	43.4	0.3	0.8	120
960387	0.009	8.7	0.12	69.0	0.7	0.9	90
960388	0.009	8.0	0.07	311	0.8	0.4	60
960389	0.008	7.7	0.13	28.1	0.1	0.6	110
960390	0.007	10.7	0.16	50.6	0.2	0.8	< 10
960391	0.007	32.1	0.13	40.7	0.3	0.8	80
960392	0.008	122	0.10	73.1	0.8	1.1	70
960393	0.011	15.7	0.04	10.4	0.2	2.7	180
960394	0.010	14.3	0.11	276	2.1	2.4	50
960395	0.006	2.9	0.14	235	2.3	2.1	170
960396	0.011	7.9	0.15	355	2.3	1.6	60

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb		
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm		
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30		
Method Code	TD-ICP	TD-ICP	TD-ICP																						
GXR-1 Meas																									
GXR-1 Cert																									
GXR-1 Meas																									
GXR-1 Cert																									
GXR-6 Meas																									
GXR-6 Cert																									
GXR-6 Meas																									
GXR-6 Cert																									
SDC-1 1F2 Assay (%) Meas			< 30	480	< 10				20	50	0.002						40		0.078			0.003		< 30	
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030						34.0		0.088			0.0038		25.0	
SDC-1 1F2 Assay (%) Meas			< 30	490	< 10				20	60	0.002						40		0.083			0.003		< 30	
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030						34.0		0.088			0.0038		25.0	
SDC-1 1F2 Assay (%) Meas											0.003														
SDC-1 1F2 Assay (%) Cert											0.0030														
SBC-1 1F2-assay Kamloops (%) Meas			< 30	600	< 10	< 20			< 3	20	90	0.002			20			170		0.110	< 0.001		0.007		< 30
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700			0.400	22.7	109	0.0031			27.0			163		0.116	0.00024		0.00828		35.0
SBC-1 1F2-assay Kamloops (%) Meas			< 30	610	< 10	< 20			< 3	20	100	0.002			30			150		0.113	< 0.001		0.007		30
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700			0.400	22.7	109	0.0031			27.0			163		0.116	0.00024		0.00828		35.0
SBC-1 1F2-assay Kamloops (%) Meas											0.003														
SBC-1 1F2-assay Kamloops (%) Cert											0.0031														
DNC-1a 1F2-assay Kamloops (%) Meas					80						60	300	0.009					< 10		0.113			0.022		
DNC-1a 1F2-assay Kamloops (%) Cert					118						57.0	270	0.01						5.20		0.116			0.0247	
DNC-1a 1F2-assay					80						60	190	0.009					< 10		0.113			0.021		

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert				118					57.0	270	0.01					5.20		0.116			0.0247		
DNC-1a 1F2-assay Kamloops (%) Meas											0.012												
DNC-1a 1F2-assay Kamloops (%) Cert											0.01												
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	14.2	300	1070	< 10	< 20	0.1	< 3	10	80	0.006	5.5	30	< 10	1.6	40	0.6	0.103	< 0.001	< 0.1	0.002	0.05	90
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	12.5	270	1010	< 10	< 20	0.1	< 3	10	80	0.006	5.2	30	< 10	1.5	30	0.6	0.100	< 0.001	< 0.1	0.002	0.04	100
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101
GXR-6 1F2-assay Kamloops (%) Meas											0.008												
GXR-6 1F2-assay Kamloops (%) Cert											0.0066												
GXR-1 1F2-assay Kamloops (%) Meas	34.7	2.8	410	590	< 10	1380	0.7	< 3	< 10	20	0.117	25.7	< 10	< 10	< 0.1	< 10	0.2	0.099	0.001	< 0.1	0.003	0.08	870
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730
GXR-1 1F2-assay Kamloops (%) Meas	34.1	2.2	370	570	< 10	1330	0.7	4	< 10	30	0.116	25.0	20	< 10	< 0.1	< 10	0.2	0.094	< 0.001	< 0.1	0.004	0.08	870
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730
GXR-1 1F2-assay Kamloops (%) Meas											0.117												
GXR-1 1F2-assay Kamloops (%) Cert											0.111												

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas	< 3.0		50							80	10900	0.227							< 0.001		0.196			
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert	0.860		57.0						75.0	8650	0.233								0.0009		0.225			
OREAS 14P 1F2-assay Kamloops (%) Meas									830		0.950	33.4									1.78			
OREAS 14P 1F2-assay Kamloops (%) Cert									750		0.997	37.2									2.10			
OREAS 14P 1F2-assay Kamloops (%) Meas											0.946													
OREAS 14P 1F2-assay Kamloops (%) Cert											0.997													
GBW 07238 1F2-assay Kamloops (%) Meas			< 30								0.009		10						1.02	1.47		0.002		< 30
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0						1.08	1.51		0.00178		18.7
GBW 07238 1F2-assay Kamloops (%) Meas			< 30								0.009		20						1.03	1.54		0.002		< 30
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0						1.08	1.51		0.00178		18.7
GBW 07238 1F2-assay Kamloops (%) Meas											0.010													
GBW 07238 1F2-assay Kamloops (%) Cert											0.00936													
GBW 07239 1F2-assay Kamloops (%)			< 30			< 20			< 10		0.004		30						1.06	0.113		0.002		< 30

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
Meas																								
GBW 07239 1F2-assay Kamloops (%) Cert			1.0			1.0			13.5		0.00486		23.1					1.15	0.110		0.00209		26.1	
GBW 07239 1F2-assay Kamloops (%) Meas			< 30			< 20			10		0.004		20					1.14	0.122		0.002		< 30	
GBW 07239 1F2-assay Kamloops (%) Cert			1.0			1.0			13.5		0.00486		23.1					1.15	0.110		0.00209		26.1	
GBW 07239 1F2-assay Kamloops (%) Meas											0.005													
GBW 07239 1F2-assay Kamloops (%) Cert											0.00486													
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas											0.023													
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert											0.0331													
OREAS 922 (AQUA REGIA) Meas																								
OREAS 922 (AQUA REGIA) Cert																								
OREAS 922 (AQUA REGIA) Meas																								
OREAS 922 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
SdAR-M2 (U.S.G.S.) Meas																								
SdAR-M2																								

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
(U.S.G.S.) Cert																							
SdAR-M2																							
(U.S.G.S.) Meas																							
SdAR-M2																							
(U.S.G.S.) Cert																							
741463 Orig	< 3.0	6.5	< 30	1160	< 10	< 20	0.3	< 3	< 10	10	0.005	3.5	20	< 10	2.9	< 10	0.6	0.060	< 0.001	0.6	< 0.001	0.16	190
741463 Dup	< 3.0	8.9	< 30	1150	< 10	< 20	0.3	< 3	< 10	20	0.005	3.6	30	< 10	2.8	< 10	0.6	0.063	< 0.001	0.6	< 0.001	0.17	190
741477 Orig	< 3.0	4.8	< 30	780	< 10	< 20	1.5	< 3	< 10	50	0.002	3.8	10	< 10	1.2	30	1.0	0.154	< 0.001	1.6	0.001	0.06	< 30
741477 Dup	< 3.0	5.8	< 30	780	< 10	< 20	1.5	< 3	10	50	0.002	3.8	20	< 10	1.3	30	1.0	0.150	< 0.001	1.5	0.002	0.07	40
741490 Orig																							
741490 Dup																							
745915 Orig	< 3.0	9.2	< 30	700	< 10	< 20	3.4	< 3	30	70		6.3	20	< 10	1.4	30	2.1	0.124	< 0.001	1.7	0.003	0.20	< 30
745915 Dup	3.7	6.0	< 30	670	< 10	< 20	3.2	< 3	20	70		5.9	20	< 10	1.3	30	2.0	0.113	< 0.001	1.6	0.002	0.18	< 30
718952 Orig																							
718952 Dup																							
718964 Orig	< 3.0	8.7	< 30	800	< 10	< 20	1.4	< 3	10	20	0.002	5.2	20	< 10	2.0	30	1.5	0.348	< 0.001	0.9	< 0.001	0.30	60
718964 Dup	< 3.0	8.7	< 30	810	< 10	< 20	1.5	< 3	10	20	0.002	5.4	20	< 10	2.0	20	1.6	0.354	< 0.001	0.9	< 0.001	0.30	70
718975 Orig																							
718975 Dup																							
718989 Orig	3.1	8.4	< 30	1090	< 10	< 20	1.9	< 3	< 10	20	0.014	5.6	20	< 10	2.3	10	1.0	0.263	< 0.001	1.5	< 0.001	0.20	90
718989 Dup	< 3.0	8.4	< 30	1080	< 10	< 20	1.8	< 3	< 10	20	0.012	5.6	20	< 10	2.4	10	1.0	0.259	< 0.001	1.5	< 0.001	0.20	110
745917 Orig																							
745917 Dup																							
960350 Orig	< 3.0	8.2	< 30	790	< 10	< 20	1.1	< 3	< 10	20	0.004	5.0	20	< 10	1.7	10	0.7	0.174	< 0.001	1.2	< 0.001	0.19	100
960350 Dup	< 3.0	7.1	< 30	840	< 10	< 20	1.2	< 3	< 10	30	0.005	5.2	20	< 10	1.8	20	0.8	0.188	< 0.001	1.3	< 0.001	0.20	130
960363 Orig																							
960363 Dup																							
960375 Orig	< 3.0	8.0	< 30	820	< 10	< 20	1.2	< 3	20	20	0.018	6.5	20	< 10	1.6	10	0.5	0.315	< 0.001	0.8	< 0.001	0.14	60
960375 Dup	< 3.0	8.8	< 30	860	< 10	< 20	1.2	< 3	10	20	0.018	6.8	20	< 10	1.7	20	0.5	0.322	< 0.001	0.8	< 0.001	0.15	60
960379 Orig																							
960379 Dup																							
960393 Orig																							
960393 Dup																							
Method Blank																							

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
GXR-1 Meas															0.007	< 1	0.037	3.9	0.6	8	0.049	0.11	0.29	0.03
GXR-1 Cert															0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050
GXR-1 Meas															0.007	< 1	0.041	4.3	0.6	9	0.049	0.12	0.31	0.03
GXR-1 Cert															0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050
GXR-6 Meas															< 1	0.036	26.5	0.9	4	0.084	0.40	6.97	1.24	
GXR-6 Cert															0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	
GXR-6 Meas															< 1	0.033	24.5	0.9	4	0.081	0.40	6.92	1.18	
GXR-6 Cert															0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	
SDC-1 1F2 Assay (%) Meas		< 50	< 40	170					30	< 50		0.010	< 50											
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180					102	0.80		0.0103	290											
SDC-1 1F2 Assay (%) Meas		< 50	< 40	170					50	< 50		0.010	< 50											
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180					102	0.80		0.0103	290											
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	170			< 50	< 100	210	< 50	40	0.018	120											
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134											
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	180			1190	< 100	220	< 50	40	0.019	130											
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134											
SBC-1 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert		< 50	< 40	130					150		20	0.006	< 50											
DNC-1a 1F2-assay Kamloops (%) Meas		0.960	31.0	144					148.00	00	18.0	0.007	38.0											
DNC-1a 1F2-assay		< 50	< 40	130					150		20	0.006	< 50											

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS																			
Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144						148.00 00		18.0	0.007	38.0										
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	40	< 20		1340	< 100	170	< 50	20	0.013	110											
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110											
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	40	< 20		2300	< 100	150	< 50	10	0.013	100											
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110											
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-1 1F2-assay Kamloops (%) Meas	0.3	< 50	< 40	300	< 20		110	< 100	90	160	30	0.087	< 50											
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0											
GXR-1 1F2-assay Kamloops (%) Meas	0.2	< 50	< 40	300	40		2980	< 100	90	140	30	0.083	< 50											
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0											
GXR-1 1F2-assay Kamloops (%) Meas																								
GXR-1 1F2-assay Kamloops (%) Cert																								

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	AR-MS																				
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas	0.9											0.015											
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert	1.20											0.0133											
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas										2700	10	0.007											
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655											
GBW 07238 1F2-assay Kamloops (%) Meas										2660	10	0.007											
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655											
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%)										1010	40	0.013											

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS																		
Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert										1000.00	34.2	0.012											
GBW 07239 1F2-assay Kamloops (%) Meas										1110	40	0.013											
GBW 07239 1F2-assay Kamloops (%) Cert										1000.00	34.2	0.012											
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas															< 1	0.068	23.7	0.7		0.030	1.34	2.69	0.47
OREAS 922 (AQUA REGIA) Cert															0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376
OREAS 922 (AQUA REGIA) Meas															< 1	0.064	23.0	0.7		0.029	1.30	2.65	0.47
OREAS 922 (AQUA REGIA) Cert															0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376
OREAS 923 (AQUA REGIA) Meas															< 1	0.062	23.8	0.7			1.47	2.81	0.41
OREAS 923 (AQUA REGIA) Cert															0.684	0.061	23.4	0.61			1.43	2.80	0.322
SdAR-M2 (U.S.G.S.) Meas																	13.8	4.9					
SdAR-M2																	17.9	6.6					

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
(U.S.G.S.) Cert																								
SdAR-M2 (U.S.G.S.) Meas																			13.1	4.3				
SdAR-M2 (U.S.G.S.) Cert																			17.9	6.6				
741463 Orig	0.3	< 50	< 40	260	< 20	0.3	< 50	< 100	130	< 50	10	0.010	60	0.006	< 1	0.171	4.3	0.3	< 1	0.029	0.24	1.57	0.33	
741463 Dup	0.3	< 50	< 40	250	< 20	0.3	< 50	< 100	130	< 50	10	0.010	70	0.006	< 1	0.176	4.3	0.3	< 1	0.029	0.24	1.59	0.33	
741477 Orig	< 0.1	< 50	< 40	290	< 20	0.1	300	< 100	40	< 50	20	0.061	< 50	0.125	< 1	0.053	16.5	0.6	2	0.029	0.59	2.40	0.10	
741477 Dup	< 0.1	< 50	< 40	280	< 20	< 0.1	< 50	< 100	40	< 50	10	0.062	< 50	0.130	< 1	0.050	16.2	0.5	1	0.028	0.55	2.20	0.10	
741490 Orig															0.010	< 1	0.111	12.0	0.6	< 1	0.019	0.45	1.41	0.14
741490 Dup															0.009	< 1	0.117	12.4	0.5	< 1	0.022	0.47	1.49	0.15
745915 Orig	0.1	< 50	< 40	540	< 20	0.3	< 50	< 100	110	< 50	30	0.011	90											
745915 Dup	0.1	< 50	< 40	500	< 20	0.2	1000	< 100	80	< 50	30	0.011	80											
718952 Orig															0.060	< 1	0.120	10.8	0.4	< 1	0.022	0.32	2.18	0.09
718952 Dup															0.069	< 1	0.118	11.0	0.5	< 1	0.022	0.32	2.15	0.09
718964 Orig	0.1	< 50	< 40	230	< 20	0.4	< 50	< 100	140	< 50	40	0.022	100											
718964 Dup	0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	130	< 50	40	0.022	100											
718975 Orig															0.146	< 1	0.088	8.2	0.4	< 1	0.026	1.15	1.83	0.08
718975 Dup															0.148	< 1	0.091	8.5	0.4	< 1	0.027	1.18	1.85	0.08
718989 Orig	< 0.1	< 50	< 40	470	< 20	0.5	< 50	< 100	160	< 50	30	0.058	140	0.133	< 1	0.158	10.7	1.2	1	0.040	0.88	2.32	0.15	
718989 Dup	< 0.1	< 50	< 40	470	50	0.5	500	< 100	160	< 50	30	0.058	140	0.119	< 1	0.151	10.2	1.3	< 1	0.036	0.85	2.24	0.13	
745917 Orig															0.313	< 1	0.169	22.0	0.8	< 1	0.284	1.84	3.51	0.28
745917 Dup															0.309	< 1	0.168	21.7	0.7	< 1	0.285	1.89	3.62	0.28
960350 Orig	0.1	< 50	< 40	300	< 20	0.3	470	< 100	100	< 50	20	0.034	70											
960350 Dup	0.1	< 50	< 40	310	< 20	0.2	680	< 100	70	< 50	20	0.036	< 50											
960363 Orig															0.027	< 1	0.142	12.7	1.1	< 1	0.023	0.85	2.11	0.34
960363 Dup															0.019	< 1	0.141	12.7	1.1	< 1	0.022	0.85	2.09	0.32
960375 Orig	< 0.1	< 50	< 40	210	< 20	0.4	190	< 100	120	< 50	30	0.037	90											
960375 Dup	< 0.1	< 50	< 40	230	< 20	0.4	1820	< 100	130	< 50	40	0.038	90											
960379 Orig															0.015	< 1	0.178	7.1	1.1	1	0.022	0.59	1.56	0.43
960379 Dup															0.015	< 1	0.173	6.5	1.0	< 1	0.021	0.58	1.52	0.38
960393 Orig															0.008	< 1	0.283	1.9	0.7	< 1	0.022	0.06	2.51	0.04
960393 Dup															0.005	< 1	0.249	1.9	0.7	< 1	0.020	0.06	2.43	0.04
Method Blank															< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.011	< 0.01	< 0.01	< 0.01

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
GXR-1 Meas	1370	0.78	0.9	72	7	914	24.3	7.5	36.0	1080	744	4.05		401	2.1	190	25.9	9.4	< 0.1	16.4	29.1	0.67	24.1
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0
GXR-1 Meas	1360	0.81	1.1	76	6	928	25.8	8.1	37.5	1120	782	4.19		407	2.1	189	25.9	9.8	< 0.1	17.1	29.6	0.67	34.0
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0
GXR-6 Meas	0.17	0.15	22.1	160	70	1070	5.66	13.4	22.1	63.2	120	12.6		219	65.4	32.5	6.40	10.1	< 0.1	1.67	0.304	0.06	1.11
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
GXR-6 Meas	0.18	0.15	19.4	157	73	1010	5.48	12.7	21.1	62.3	122	12.0		215	66.3	33.1	6.47	10.1	< 0.1	1.63	0.299	0.05	1.10
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
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SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
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GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
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GBW 07239 1F2-assay Kamloops (%)																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS								
Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas	11.2	0.38	3.5	30	41	764	5.23	19.1	34.5	2070	256	7.61	0.1	6.5	26.6	14.7	18.2	26.2	0.3	0.66	0.629	0.23	4.03
OREAS 922 (AQUA REGIA) Cert	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
OREAS 922 (AQUA REGIA) Meas	11.2	0.37	3.1	30	42	728	5.09	18.5	33.2	2030	254	7.32	0.1	5.6	26.8	15.1	18.3	26.2	0.3	0.66	0.613	0.23	3.85
OREAS 922 (AQUA REGIA) Cert	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
OREAS 923 (AQUA REGIA) Meas	23.5	0.38	3.2	30	37	900	5.97	21.2	32.1	4090	331	7.91		7.3	23.5	13.6	17.5	29.9		0.81	1.80	0.43	6.41
OREAS 923 (AQUA REGIA) Cert	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
SdAR-M2 (U.S.G.S.) Meas	1.03		2.0	16	8		12.7	46.4	234	766	3.17			18.4	19.8	15.8	5.3	2.4	12.5				
SdAR-M2	1.05		4.1	25.2	49.6		12.4	48.8	236.00	760	17.6			149	144	32.7	259	26.2	13.3				

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
(U.S.G.S.) Cert										00														
SdAR-M2 (U.S.G.S.) Meas	1.08		1.7	15	7			11.9	43.0	234	773	2.90			18.6	20.1	15.8	5.3	2.3	11.9				
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00	760	17.6			149	144	32.7	259	26.2	13.3				
741463 Orig	1.76	0.10	0.5	31	4	325	2.91	1.1	1.8	50.8	65.2	5.28	< 0.1	6.0	14.7	154	3.06	< 0.1	0.4	10.5	0.848	0.17	0.71	
741463 Dup	1.70	0.10	0.5	31	5	330	2.93	1.1	1.8	50.6	66.5	5.00	< 0.1	6.2	14.7	157	3.10	< 0.1	0.4	10.9	0.846	0.16	0.73	
741477 Orig	0.43	0.49	3.1	61	16	1080	2.86	11.5	17.7	23.3	483	7.96	< 0.1	2.7	11.8	59.3	4.43	3.0	0.9	1.45	0.201	0.03	0.85	
741477 Dup	0.44	0.48	3.1	59	15	1000	2.73	10.9	17.1	22.4	454	7.54	< 0.1	2.1	11.5	59.5	4.34	2.7	0.9	1.45	0.200	0.03	0.78	
741490 Orig	0.22	0.21	0.3	57	11	768	3.28	6.0	8.5	12.3	95.8	5.13	< 0.1	14.9	15.1	22.3	3.77	0.2	0.1	1.18	0.246	0.03	0.62	
741490 Dup	0.21	0.22	0.3	58	12	804	3.43	6.3	8.7	12.6	97.8	5.26	< 0.1	15.4	15.7	23.8	3.89	0.2	0.1	1.21	0.102	0.03	0.50	
745915 Orig																								
745915 Dup																								
718952 Orig	0.62	0.32	1.8	56	8	492	3.51	3.6	3.7	28.6	162	9.15	< 0.1	6.7	14.3	60.5	3.44	0.2	1.8	4.64	0.834	0.03	1.11	
718952 Dup	0.60	0.33	1.8	57	8	488	3.45	3.6	3.8	28.3	154	8.93	< 0.1	7.4	15.2	60.7	3.50	0.4	2.1	4.56	0.840	0.04	1.13	
718964 Orig																								
718964 Dup																								
718975 Orig	0.38	1.08	4.0	82	145	1350	3.52	15.2	20.7	34.4	165	5.71	< 0.1	5.2	4.7	108	5.93	0.4	0.4	2.93	0.121	< 0.02	0.41	
718975 Dup	0.40	1.10	4.2	84	147	1380	3.61	16.0	21.3	35.9	170	5.77	< 0.1	5.1	4.7	109	5.93	0.5	0.5	2.91	0.120	0.02	0.45	
718989 Orig	0.70	0.84	6.9	89	8	2210	4.82	11.5	6.8	125	602	8.30	0.1	6.8	9.8	122	15.6	1.3	1.0	2.78	2.52	0.05	1.05	
718989 Dup	0.61	0.74	6.3	84	8	2130	4.55	11.1	6.3	117	507	8.01	< 0.1	6.9	8.9	112	14.5	1.4	0.8	2.67	0.434	0.05	0.91	
745917 Orig	0.14	3.34	11.9	122	41	1180	6.14	23.8	29.6	148	96.2	10.5	0.2	12.3	8.8	232	18.1	9.5	0.2	2.99	0.254	0.05	1.15	
745917 Dup	0.13	3.33	11.8	124	42	1160	6.08	23.2	28.5	148	95.4	10.9	0.1	12.0	8.7	229	18.0	8.3	0.4	2.94	0.096	0.05	1.02	
960350 Orig																								
960350 Dup																								
960363 Orig	0.30	0.50	3.7	55	4	1880	3.60	9.1	4.1	35.7	181	5.50	< 0.1	2.2	18.2	40.4	16.4	0.2	0.2	1.02	0.186	0.03	0.61	
960363 Dup	0.33	0.47	3.8	52	4	1930	3.64	9.4	4.0	35.8	179	5.47	< 0.1	2.5	17.7	40.1	16.7	0.1	0.1	1.08	0.125	0.02	0.57	
960375 Orig																								
960375 Dup																								
960379 Orig	0.05	0.56	3.4	89	1	2080	3.21	9.6	2.3	104	123	3.63	< 0.1	0.7	15.5	16.2	27.3	0.9	< 0.1	0.64	0.567	0.02	0.33	
960379 Dup	0.05	0.53	3.2	90	1	2070	3.18	9.3	2.2	102	123	4.23	< 0.1	0.9	14.2	15.5	26.4	0.9	< 0.1	0.64	0.600	< 0.02	0.46	
960393 Orig	0.14	0.08	0.3	5	3	52	0.33	0.8	1.9	372	50.0	1.12	0.1	1.6	1.6	13.6	90.9	1.3	0.4	0.68	1.95	< 0.02	0.22	
960393 Dup	0.12	0.09	< 0.1	6	2	56	0.34	0.8	1.8	352	48.7	1.11	0.1	1.3	1.7	14.2	85.4	1.0	0.4	0.67	1.89	< 0.02	0.38	
Method Blank	< 0.02	< 0.01	< 0.1	< 1	2	< 1	< 0.01	< 0.1	0.1	< 0.01	< 0.1	0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	0.03	< 0.002	< 0.02	0.07

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	86.3	13.7	2.73	209	5.0	9.60	2.57		6.15	2.1	17.7	0.4	3.3	0.6	3.7			0.3	1.7	0.2	0.2	< 0.05	130	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-1 Meas	87.6	13.7	2.77	308	5.1	10.2	2.64		6.15	2.0	16.5	0.4	3.1	0.6	3.8			0.3	1.7	0.2	0.2	< 0.05	136	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-6 Meas	1.85	0.06	3.59	1040	10.6	30.8	0.11		10.8	2.1	1.0	0.5	1.9	0.3	1.6			0.8	< 0.1	0.2	< 0.05	< 0.1		
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	4.30	0.485	1.90		
GXR-6 Meas	1.72	0.06	3.69	1050	10.4	30.4	0.14		10.8	2.1	0.6	0.6	1.9	0.3	1.5			0.8	0.1	0.2	< 0.05	< 0.1		
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80			2.40	0.330	4.30	0.485	1.90		
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
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SBC-1 1F2-assay Kamloops (%) Meas																								
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DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
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Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas																								
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas																								
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GBW 07239 1F2-assay Kamloops (%)																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas																							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas	0.68		1.86	81.5	33.3	67.7	0.27	8.0	28.5	5.0	3.6		4.4	0.6							0.5		1.0
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12
OREAS 922 (AQUA REGIA) Meas	0.69		1.90	82.9	31.8	64.9	0.29	7.7	27.8	4.9	2.9		4.5	0.6							0.5		0.9
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12
OREAS 923 (AQUA REGIA) Meas	0.79		1.67	69.4	32.0	61.1	0.39	7.8	27.7	5.0	6.1		4.6	0.6							0.6		1.9
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54							0.60		1.96
SdAR-M2 (U.S.G.S.) Meas			0.77	118	38.1	85.4	5.27	9.4	32.4	5.4		0.5	4.4	0.6	3.3	0.7	1.7	0.3	1.5	0.2	0.1	< 0.05	0.9
SdAR-M2			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas			0.82	123	37.6	85.1	4.92	9.3	32.7	5.5		0.5	4.8	0.7	3.6	0.8	1.8	0.3	1.6	0.2	0.1	< 0.05	0.9
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8
741463 Orig	0.20	0.63	0.44	121	14.2	27.9	1.40	3.5	13.4	2.6	0.9	0.7	2.0	0.2	1.1	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
741463 Dup	0.20	0.64	0.44	185	14.0	27.4	1.53	3.3	13.0	2.5	0.8	0.6	2.0	0.2	1.2	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
741477 Orig	0.35	0.19	1.57	205	7.2	14.7	0.94	1.7	6.30	1.2	0.9	0.3	1.1	0.2	1.0	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
741477 Dup	0.33	0.15	1.52	195	7.0	14.4	0.97	1.7	6.18	1.1	0.6	0.3	1.0	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3
741490 Orig	0.42	0.08	0.67	247	9.6	24.8	0.39	2.1	7.62	1.3	1.0	0.3	1.1	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
741490 Dup	0.42	0.05	0.61	262	10.2	25.8	0.40	2.2	7.99	1.4	0.5	0.3	1.2	0.2	0.9	0.2	0.5	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
745915 Orig																							
745915 Dup																							
718952 Orig	0.30	0.20	1.05	128	7.5	14.5	1.19	1.7	6.26	1.1	0.3	0.2	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
718952 Dup	0.35	0.27	1.16	128	7.7	14.9	1.09	1.7	6.40	1.1	0.6	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.3
718964 Orig																							
718964 Dup																							
718975 Orig	0.50	0.23	0.40	52.2	5.0	12.3	0.77	1.4	5.63	1.2	0.9	0.3	1.3	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
718975 Dup	0.50	0.22	0.42	53.9	5.1	12.7	0.88	1.4	5.76	1.2	0.5	0.3	1.3	0.2	1.2	0.3	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2
718989 Orig	0.76	0.57	1.27	115	17.1	41.4	2.95	4.6	18.2	3.8	1.2	0.9	3.6	0.6	3.1	0.7	1.7	0.3	1.5	0.3	< 0.1	< 0.05	0.1
718989 Dup	0.66	0.52	1.13	102	15.4	37.2	2.78	4.2	16.4	3.5	1.1	0.8	3.3	0.5	2.8	0.7	1.5	0.2	1.3	0.2	< 0.1	< 0.05	0.1
745917 Orig	0.42	0.06	1.92	195	16.7	37.0	0.17	5.1	20.8	4.5	1.0	1.1	4.6	0.6	3.5	0.8	1.7	0.3	1.3	0.2	0.1	< 0.05	0.2
745917 Dup	0.40	0.06	1.81	187	16.1	35.5	0.17	4.8	20.0	4.1	0.9	1.0	4.3	0.6	3.4	0.7	1.7	0.2	1.3	0.2	< 0.1	< 0.05	0.1
960350 Orig																							
960350 Dup																							
960363 Orig	0.29	0.14	2.51	193	15.4	38.5	0.94	4.4	18.4	3.9	1.4	1.1	4.0	0.6	3.2	0.7	1.7	0.2	1.5	0.2	< 0.1	< 0.05	< 0.1
960363 Dup	0.29	0.14	2.39	197	15.8	39.6	0.89	4.6	19.0	4.2	0.6	1.2	4.2	0.6	3.4	0.8	1.8	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1
960375 Orig																							
960375 Dup																							
960379 Orig	0.18	0.06	1.25	554	27.5	44.4	0.78	6.8	27.7	5.6	0.4	1.7	6.2	0.8	4.7	1.1	2.7	0.4	2.4	0.4	< 0.1	< 0.05	< 0.1
960379 Dup	0.22	0.05	1.11	511	25.9	43.0	0.73	6.5	26.6	5.5	0.1	1.6	5.8	0.8	4.5	1.1	2.5	0.4	2.3	0.4	< 0.1	< 0.05	< 0.1
960393 Orig	0.10	0.04	0.24	66.2	24.3	33.2	0.79	9.6	45.9	12.2	2.6	3.6	19.0	3.1	19.0	4.6	10.7	1.5	8.1	1.0	< 0.1	< 0.05	< 0.1
960393 Dup	0.12	0.07	0.22	65.4	23.8	31.9	0.68	9.2	44.2	11.5	2.8	3.5	18.6	3.0	18.6	4.5	10.4	1.5	7.9	1.0	< 0.1	< 0.05	< 0.1
Method Blank	< 0.02	< 0.02	< 0.02	3.6	< 0.5	< 0.01	< 0.01	< 0.1	< 0.02	< 0.1	0.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
GXR-1 Meas		2950	0.34	624	1.9	28.5	3750
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas		2300	0.35	654	1.8	29.0	4010
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-6 Meas		44.5	1.97	98.2	4.2	0.9	80
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas		41.2	1.99	96.8	4.3	0.9	100
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Meas							
OREAS 13b (4 Acid) 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%)							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Meas							
SAR-M (U.S.G.S.)1F2- assay Kamloops (%) Cert							
OREAS 922 (AQUA REGIA) Meas			0.16	58.5	14.1	2.3	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 922 (AQUA REGIA) Meas			0.16	56.3	14.4	2.4	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 923 (AQUA REGIA) Meas			0.17	80.5	15.0	2.4	
OREAS 923 (AQUA REGIA) Cert			0.12	81	14.3	1.80	
SdAR-M2 (U.S.G.S.) Meas				748	10.8	1.7	1320
SdAR-M2				808	14.2	2.53	

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(U.S.G.S.) Cert							1440.00
SdAR-M2 (U.S.G.S.) Meas				757	11.7	1.8	1380
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
741463 Orig	0.053	77.7	0.23	171	0.3	1.0	70
741463 Dup	0.033	98.4	0.22	170	0.3	1.0	70
741477 Orig	0.005	6.5	0.12	30.0	1.7	0.7	100
741477 Dup	0.006	6.6	0.10	29.2	1.7	0.7	50
741490 Orig	0.004	8.4	0.09	23.4	0.1	1.0	60
741490 Dup	0.003	7.9	0.09	24.0	0.1	1.0	50
745915 Orig							
745915 Dup							
718952 Orig	0.007	7.3	0.12	64.5	0.5	0.9	110
718952 Dup	< 0.001	4.0	0.12	65.3	0.5	1.0	50
718964 Orig							
718964 Dup							
718975 Orig	0.004	8.7	0.05	43.0	0.4	0.7	50
718975 Dup	0.005	10.6	0.05	44.9	0.4	0.7	30
718989 Orig	0.006	6.4	0.10	83.9	3.0	1.8	90
718989 Dup	0.007	1.9	0.09	77.6	2.8	1.6	100
745917 Orig	0.020	10.9	0.10	9.07	1.9	0.8	< 10
745917 Dup	0.012	6.0	0.09	8.40	1.7	0.7	40
960350 Orig							
960350 Dup							
960363 Orig	0.008	22.2	0.17	31.1	0.9	1.4	100
960363 Dup	0.011	2.5	0.15	33.0	1.1	1.5	80
960375 Orig							
960375 Dup							
960379 Orig	0.008	10.1	0.11	80.0	2.9	1.3	40
960379 Dup	0.004	< 0.5	0.10	78.1	2.8	1.3	50
960393 Orig	0.006	11.8	0.04	10.5	0.3	2.8	200
960393 Dup	0.016	19.5	0.04	10.3	0.2	2.6	170
Method Blank	0.002	< 0.5	< 0.02	< 0.01	< 0.1	< 0.1	< 10

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-17
Invoice No.: A17-07492
Invoice Date: 08-Aug-17
Your Reference: JOY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

142 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)

Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-07492

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
 9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
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Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
952450	< 3.0	7.8	40	580	< 10	< 20	0.6	< 3	< 10	20	0.002	5.0	20	< 10	1.5	10	0.4	0.192	< 0.001	0.9	< 0.001	0.51	90
952451	< 3.0	9.2	< 30	1210	< 10	< 20	1.4	< 3	< 10	< 10	0.003	4.5	20	< 10	2.7	20	0.9	0.180	< 0.001	1.5	< 0.001	0.15	80
952452	< 3.0	10.7	< 30	1260	< 10	< 20	1.9	4	10	20	0.010	6.1	20	< 10	2.9	20	1.2	0.300	< 0.001	1.3	< 0.001	0.21	280
952453	< 3.0	9.5	30	1160	< 10	< 20	0.8	< 3	< 10	20	< 0.001	4.9	20	< 10	2.8	20	1.2	0.134	< 0.001	1.4	0.001	0.20	< 30
952454	< 3.0	10.2	< 30	810	< 10	< 20	0.6	< 3	< 10	< 10	< 0.001	4.6	20	< 10	2.8	10	0.7	0.162	< 0.001	1.8	< 0.001	0.22	< 30
952455	< 3.0	9.0	< 30	850	< 10	< 20	0.4	< 3	< 10	20	0.016	4.6	20	< 10	2.9	10	0.7	0.147	< 0.001	1.0	0.002	0.20	150
952456	< 3.0	6.5	< 30	810	< 10	< 20	0.9	< 3	20	20	0.003	4.0	20	< 10	1.7	< 10	0.4	0.578	< 0.001	0.9	< 0.001	0.69	120
952457	< 3.0	9.3	< 30	1010	< 10	< 20	0.7	5	30	50	0.012	7.1	20	< 10	2.2	20	0.8	0.403	< 0.001	1.1	< 0.001	0.27	570
952458	< 3.0	8.8	< 30	1210	< 10	< 20	0.2	< 3	< 10	10	0.004	5.8	30	< 10	3.4	< 10	0.5	0.095	< 0.001	0.5	< 0.001	0.28	700
952459	< 3.0	8.3	< 30	1180	< 10	< 20	0.4	< 3	< 10	30	0.006	4.7	20	< 10	2.6	10	0.5	0.102	< 0.001	0.7	< 0.001	0.28	460
952460	< 3.0	8.7	< 30	1110	< 10	< 20	0.3	< 3	< 10	30	0.004	3.5	20	< 10	2.4	< 10	0.3	0.058	< 0.001	0.8	< 0.001	0.30	130
952461	5.0	7.9	< 30	1120	< 10	< 20	0.6	< 3	< 10	40	0.030	6.4	20	< 10	2.2	20	0.5	0.067	0.002	0.8	< 0.001	0.19	120
952462	< 3.0	8.2	< 30	820	< 10	< 20	0.5	< 3	< 10	50	0.003	4.4	20	< 10	1.7	20	0.4	0.043	< 0.001	1.1	0.001	0.16	60
952463	< 3.0	7.9	< 30	880	< 10	< 20	0.5	< 3	< 10	50	0.002	4.8	30	< 10	2.2	20	0.3	0.040	< 0.001	1.1	< 0.001	0.16	50
952464	< 3.0	7.2	< 30	780	< 10	< 20	0.6	< 3	< 10	60	0.002	4.7	30	< 10	1.7	10	0.4	0.042	< 0.001	1.1	0.001	0.17	50
952465	< 3.0	7.9	< 30	970	< 10	< 20	0.6	< 3	< 10	70	0.002	4.3	20	< 10	2.0	10	0.5	0.045	< 0.001	1.2	< 0.001	0.20	40
952466	< 3.0	7.7	< 30	1090	< 10	< 20	0.8	< 3	< 10	60	0.002	4.2	20	< 10	1.9	30	0.6	0.064	< 0.001	1.4	0.001	0.16	40
952467	< 3.0	0.6	< 30	< 70	< 10	< 20	< 0.1	< 3	< 10	< 10	0.001	43.6	< 10	< 10	< 0.1	< 10	< 0.1	0.010	< 0.001	< 0.1	< 0.001	0.12	< 30
952468	< 3.0	6.5	< 30	920	< 10	< 20	0.9	< 3	< 10	80	0.002	2.8	20	< 10	1.6	10	0.4	0.040	< 0.001	1.5	< 0.001	0.07	< 30
952469	< 3.0	7.1	< 30	750	< 10	< 20	0.9	< 3	< 10	50	0.002	4.3	20	< 10	1.5	20	0.5	0.058	< 0.001	1.2	< 0.001	0.13	30
952470	< 3.0	6.2	< 30	1070	< 10	< 20	0.7	< 3	< 10	70	0.001	3.9	20	< 10	1.9	10	0.3	0.049	< 0.001	1.3	< 0.001	0.08	< 30
952471	< 3.0	8.0	< 30	830	< 10	< 20	0.9	< 3	< 10	90	0.003	5.3	20	< 10	1.6	20	0.6	0.071	< 0.001	1.1	0.001	0.12	90
952472	< 3.0	8.2	< 30	720	< 10	< 20	0.9	< 3	< 10	50	0.003	5.4	20	< 10	1.9	10	0.5	0.068	< 0.001	1.3	0.001	0.37	< 30
952473	< 3.0	9.1	< 30	1010	< 10	< 20	0.9	< 3	< 10	40	0.003	4.0	20	< 10	2.9	10	0.5	0.067	< 0.001	1.2	< 0.001	0.12	100
952474	< 3.0	9.1	< 30	640	< 10	< 20	1.1	< 3	< 10	30	0.002	5.3	30	< 10	2.1	10	0.4	0.110	< 0.001	1.3	< 0.001	0.50	40
952475	< 3.0	9.5	< 30	570	< 10	< 20	3.4	< 3	< 10	30	0.003	6.1	30	< 10	1.3	10	0.6	0.233	< 0.001	0.9	< 0.001	0.23	< 30
952476	< 3.0	8.5	< 30	730	< 10	< 20	1.9	< 3	< 10	30	0.004	6.0	20	< 10	1.8	20	0.6	0.146	< 0.001	1.0	0.001	0.40	110
952477	< 3.0	8.7	< 30	910	< 10	< 20	2.0	< 3	< 10	30	0.005	4.7	30	< 10	2.0	20	0.5	0.144	< 0.001	1.3	< 0.001	0.19	60
952478	< 3.0	9.7	< 30	1180	< 10	< 20	1.4	5	10	30	0.005	4.5	20	< 10	2.3	30	0.7	0.174	< 0.001	1.1	< 0.001	0.21	60
952479	< 3.0	9.3	< 30	860	< 10	< 20	2.9	41	< 10	40	0.007	4.4	20	< 10	1.7	20	0.5	0.252	< 0.001	1.1	< 0.001	0.16	50
952480	< 3.0	10.0	< 30	1230	< 10	< 20	1.5	45	20	40	0.007	4.1	30	< 10	2.3	20	0.6	0.404	< 0.001	0.9	< 0.001	0.19	< 30
952481	< 3.0	9.1	< 30	1080	< 10	< 20	2.2	5	10	40	0.012	4.2	20	< 10	1.9	20	0.8	0.192	< 0.001	1.2	0.001	0.28	40
952482	< 3.0	7.4	< 30	910	< 10	< 20	1.5	< 3	< 10	60	< 0.001	2.9	20	< 10	1.6	< 10	0.3	0.071	< 0.001	1.7	< 0.001	0.02	< 30
952483	< 3.0	7.5	< 30	970	< 10	< 20	1.5	6	< 10	40	0.002	3.3	20	< 10	1.7	20	0.5	0.090	< 0.001	1.6	< 0.001	0.03	30
952484	< 3.0	8.8	< 30	1000	< 10	< 20	1.5	7	10	20	0.012	4.8	20	< 10	2.3	20	0.9	0.180	0.002	1.2	0.001	0.12	320
952485	< 3.0	7.3	< 30	880	< 10	< 20	1.2	< 3	< 10	60	0.002	3.7	20	< 10	1.8	20	0.6	0.080	< 0.001	1.6	0.001	0.04	< 30
952486	< 3.0	8.6	< 30	820	< 10	< 20	0.9	8	50	60	0.011	11.0	10	< 10	1.5	60	0.7	2.00	0.001	0.7	0.002	0.17	40
952487	< 3.0	8.2	< 30	910	< 10	< 20	1.0	3	< 10	50	0.001	4.3	20	< 10	1.8	10	0.4	< 0.001	< 0.001	1.8	< 0.001	0.05	< 30
952488	< 3.0	7.9	< 30	630	< 10	< 20	0.8	< 3	< 10	60	0.002	5.0	30	< 10	1.4	20	0.4	0.085	< 0.001	1.3	0.001	0.23	120
952489	< 3.0	8.7	30	880	< 10	< 20	1.5	< 3	< 10	50	0.002	4.2	20	< 10	1.7	20	0.5	0.123	< 0.001	1.3	< 0.001	0.15	50
952490	< 3.0	8.1	< 30	960	< 10	< 20	1.2	< 3	< 10	70	0.002	4.0	20	< 10	2.0	20	0.5	0.098	< 0.001	1.6	0.001	0.12	< 30
952491	< 3.0	9.2	< 30	1520	< 10	< 20	1.4	< 3	< 10	30	0.003	6.8	20	< 10	2.3	10	0.9	0.226	< 0.001	0.8	< 0.001	0.21	40

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
952492	< 3.0	7.2	< 30	900	< 10	< 20	0.9	< 3	< 10	50	0.003	3.7	20	< 10	1.9	10	0.4	0.049	< 0.001	1.7	< 0.001	0.01	< 30
952493	< 3.0	8.0	< 30	1010	< 10	< 20	1.3	< 3	< 10	60	0.003	3.6	20	30	1.8	20	0.6	0.084	< 0.001	1.5	0.002	0.09	< 30
952494	< 3.0	8.4	< 30	710	< 10	< 20	0.9	< 3	< 10	60	0.004	5.2	20	< 10	1.3	30	0.5	0.076	< 0.001	1.1	0.002	0.23	30
952495	< 3.0	7.7	< 30	820	< 10	< 20	1.1	< 3	< 10	40	0.004	3.0	20	< 10	1.6	10	0.5	0.055	< 0.001	1.4	< 0.001	0.05	< 30
952496	< 3.0	10.4	< 30	820	< 10	< 20	1.0	< 3	< 10	60	0.005	6.5	30	< 10	1.7	30	0.9	0.124	< 0.001	1.3	0.001	0.19	240
952497	< 3.0	8.1	< 30	790	< 10	< 20	1.0	< 3	< 10	60	0.003	5.9	30	< 10	1.5	20	0.4	0.079	0.001	1.2	< 0.001	0.15	60
952498	< 3.0	7.7	< 30	880	< 10	< 20	1.1	< 3	< 10	70	0.002	5.3	20	< 10	1.9	30	0.6	0.090	< 0.001	1.5	< 0.001	0.10	40
952499	< 3.0	6.8	< 30	740	< 10	< 20	0.9	< 3	< 10	70	0.002	4.3	20	< 10	1.4	20	0.4	0.062	< 0.001	1.2	< 0.001	0.11	< 30
745922	< 3.0	6.2	< 30	520	< 10	< 20	1.8	< 3	< 10	50	0.005	3.5	< 10	< 10	1.1	10	0.9	0.069	< 0.001	1.6	0.004	0.07	< 30
745923	< 3.0	9.4	< 30	830	< 10	< 20	4.0	< 3	20	70	0.015	6.2	30	< 10	1.7	30	2.0	0.136	< 0.001	1.6	0.003	0.20	< 30
962700	< 3.0	7.5	< 30	830	< 10	< 20	1.4	< 3	< 10	60	0.002	4.2	20	< 10	1.5	20	0.3	0.075	< 0.001	1.4	< 0.001	0.18	< 30
962701	< 3.0	9.0	< 30	930	< 10	< 20	1.2	13	10	100	0.038	5.7	20	< 10	1.8	40	1.0	0.219	0.002	1.4	0.002	0.06	80
962702	< 3.0	8.1	< 30	890	< 10	< 20	1.4	< 3	< 10	60	0.002	4.0	20	< 10	1.8	20	0.5	0.081	< 0.001	1.5	0.001	0.13	< 30
962703	< 3.0	7.1	< 30	930	< 10	< 20	1.4	< 3	< 10	50	0.001	3.2	20	< 10	1.8	10	0.4	0.071	< 0.001	1.6	< 0.001	0.09	< 30
962704	< 3.0	7.8	< 30	830	< 10	< 20	1.1	4	< 10	80	0.001	5.4	20	< 10	1.8	20	0.6	0.066	< 0.001	1.6	< 0.001	0.09	< 30
962705	< 3.0	7.3	< 30	1070	< 10	< 20	1.6	< 3	< 10	50	< 0.001	3.7	20	< 10	1.9	10	0.5	0.102	< 0.001	1.6	< 0.001	0.07	40
962706	< 3.0	6.7	40	1010	< 10	< 20	0.7	< 3	10	30	0.002	4.0	10	< 10	2.3	10	0.5	0.742	< 0.001	1.1	< 0.001	0.35	50
962707	< 3.0	11.1	< 30	830	< 10	< 20	0.7	< 3	10	70	< 0.001	5.8	30	< 10	3.5	20	1.2	0.218	< 0.001	2.2	< 0.001	0.26	< 30
962708	< 3.0	9.5	< 30	1740	< 10	< 20	1.1	< 3	< 10	< 10	0.002	3.6	20	< 10	4.2	10	1.1	0.132	< 0.001	2.3	< 0.001	0.11	< 30
962709	< 3.0	8.9	< 30	910	< 10	< 20	0.9	< 3	< 10	20	< 0.001	6.7	20	< 10	3.0	30	1.7	0.285	< 0.001	1.2	< 0.001	0.28	40
962710	< 3.0	9.0	< 30	740	< 10	< 20	1.7	< 3	< 10	20	0.005	6.2	20	< 10	1.9	10	0.6	0.279	< 0.001	0.9	< 0.001	0.39	60
962711	< 3.0	8.3	< 30	760	< 10	< 20	0.9	< 3	< 10	40	0.005	4.9	20	< 10	2.0	10	0.6	0.133	< 0.001	1.0	< 0.001	0.33	60
962712	< 3.0	9.8	< 30	1150	< 10	< 20	1.1	< 3	20	< 10	0.010	5.9	20	< 10	3.1	20	1.0	0.385	< 0.001	1.4	< 0.001	0.19	200
962713	< 3.0	9.0	< 30	890	< 10	< 20	0.9	< 3	< 10	30	0.007	4.2	20	< 10	2.1	10	0.6	0.085	< 0.001	1.1	< 0.001	0.19	110
962714	< 3.0	11.7	< 30	720	< 10	< 20	2.6	< 3	30	< 10	0.011	7.5	30	< 10	2.4	20	1.0	0.465	< 0.001	0.6	< 0.001	0.34	980
962715	< 3.0	9.9	< 30	1190	< 10	< 20	0.4	< 3	< 10	10	< 0.001	4.1	20	< 10	3.1	20	0.9	0.104	< 0.001	1.0	< 0.001	0.16	< 30
962716	< 3.0	5.8	30	1510	< 10	< 20	1.1	< 3	10	20	0.004	3.8	10	< 10	1.5	< 10	0.5	0.771	< 0.001	0.5	0.001	0.83	90
962717	< 3.0	8.3	< 30	940	< 10	< 20	1.0	< 3	< 10	20	0.004	5.6	20	< 10	2.4	10	0.7	0.196	< 0.001	0.9	< 0.001	0.33	130
962718	< 3.0	8.0	< 30	770	< 10	< 20	0.3	< 3	< 10	20	0.003	5.2	20	< 10	2.5	< 10	0.3	0.106	< 0.001	0.7	< 0.001	0.28	130
962719	< 3.0	8.3	< 30	890	< 10	< 20	1.3	< 3	< 10	30	0.002	4.9	20	< 10	2.1	10	0.4	0.237	< 0.001	1.4	< 0.001	0.37	40
962720	< 3.0	8.2	< 30	750	< 10	< 20	0.9	< 3	< 10	20	0.002	5.4	20	< 10	1.8	< 10	0.5	0.131	< 0.001	1.3	< 0.001	0.27	40
962721	< 3.0	8.6	< 30	810	< 10	< 20	1.1	< 3	< 10	20	0.001	2.9	20	< 10	1.9	10	0.4	0.076	< 0.001	1.5	< 0.001	0.15	< 30
962722	< 3.0	9.2	< 30	880	< 10	< 20	1.1	< 3	< 10	50	0.002	3.5	20	< 10	2.1	20	0.6	0.105	< 0.001	1.5	0.001	0.15	50
962723	< 3.0	9.2	< 30	900	< 10	< 20	1.8	< 3	< 10	20	< 0.001	2.5	30	< 10	1.9	< 10	0.3	0.076	< 0.001	1.1	< 0.001	0.11	60
962724	< 3.0	8.0	< 30	1050	< 10	< 20	0.8	< 3	< 10	20	0.004	6.3	20	< 10	1.7	< 10	0.5	0.122	< 0.001	0.9	< 0.001	0.29	90
962725	< 3.0	8.2	< 30	930	< 10	< 20	0.7	< 3	< 10	20	0.005	5.8	30	< 10	2.1	10	0.6	0.118	< 0.001	0.8	0.001	0.21	140
962726	< 3.0	8.3	< 30	960	< 10	< 20	0.5	< 3	< 10	30	0.004	5.8	20	< 10	2.0	< 10	0.5	0.071	< 0.001	0.6	< 0.001	0.32	120
962727	< 3.0	9.1	< 30	950	< 10	< 20	0.2	< 3	< 10	20	0.001	4.2	20	< 10	2.4	10	0.5	0.353	< 0.001	1.0	0.001	0.40	40
962728	< 3.0	9.3	< 30	800	< 10	< 20	0.2	< 3	< 10	20	0.001	3.1	30	< 10	2.2	< 10	0.3	0.023	< 0.001	1.4	< 0.001	0.25	< 30
962729	< 3.0	9.1	< 30	810	< 10	< 20	0.2	< 3	< 10	30	0.002	4.5	20	< 10	2.2	< 10	0.5	0.041	< 0.001	1.3	< 0.001	0.11	< 30
962730	< 3.0	9.0	< 30	780	< 10	< 20	0.5	< 3	< 10	30	0.006	4.7	20	< 10	2.1	10	0.5	0.120	< 0.001	1.3	0.001	0.21	80
962731	< 3.0	8.1	< 30	710	< 10	< 20	0.9	< 3	< 10	30	0.005	4.2	20	< 10	2.0	10	0.6	0.169	< 0.001	1.0	< 0.001	0.21	70

Results

Activation Laboratories Ltd.

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Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP																			
962732	3.2	8.6	< 30	730	< 10	< 20	0.7	< 3	< 10	30	0.012	6.1	30	< 10	2.0	10	0.6	0.151	< 0.001	1.1	< 0.001	0.27	70
962733	< 3.0	10.0	< 30	780	< 10	< 20	0.4	< 3	< 10	20	0.010	6.2	20	< 10	3.0	20	0.7	0.183	< 0.001	0.9	< 0.001	0.15	90
962734	< 3.0	8.8	< 30	670	< 10	< 20	0.7	< 3	< 10	60	0.005	5.7	20	< 10	2.3	10	0.8	0.241	< 0.001	1.3	0.001	0.26	50
962735	< 3.0	8.6	< 30	700	< 10	< 20	0.5	< 3	< 10	90	0.006	4.8	20	< 10	2.4	< 10	0.5	0.190	< 0.001	1.1	< 0.001	0.29	30
962736	< 3.0	9.3	< 30	540	< 10	< 20	3.0	3	40	180	0.035	8.5	30	< 10	1.6	30	2.8	0.605	< 0.001	0.6	0.004	0.16	150
962737	< 3.0	10.5	50	730	< 10	< 20	1.2	< 3	50	340	0.030	8.6	30	< 10	2.6	30	3.4	0.556	< 0.001	0.8	0.010	0.14	40
962738	< 3.0	9.3	< 30	370	< 10	< 20	3.0	4	30	240	0.042	7.6	20	< 10	1.1	30	2.1	0.462	< 0.001	0.4	0.005	0.20	70
962739	< 3.0	8.1	< 30	380	< 10	< 20	6.4	10	50	560	0.063	9.4	10	< 10	0.6	20	6.1	0.682	< 0.001	0.3	0.017	0.15	100
962740	< 3.0	9.1	< 30	820	< 10	< 20	1.4	< 3	< 10	10	0.002	3.8	20	< 10	3.2	10	1.2	0.167	< 0.001	1.0	0.001	0.20	< 30
962741	< 3.0	10.2	< 30	990	< 10	< 20	2.2	< 3	10	30	0.015	5.3	20	< 10	3.1	20	1.3	0.239	< 0.001	1.2	< 0.001	0.19	100
962742	< 3.0	9.5	< 30	800	< 10	< 20	2.0	< 3	< 10	20	0.004	4.6	20	< 10	2.3	10	1.0	0.203	< 0.001	1.3	< 0.001	0.26	90
962743	< 3.0	9.4	< 30	1090	< 10	< 20	2.9	< 3	< 10	20	0.004	4.1	20	< 10	2.6	10	0.8	0.183	< 0.001	1.6	< 0.001	0.15	60
962744	< 3.0	6.9	< 30	650	< 10	< 20	2.9	< 3	30	240	0.010	5.7	20	< 10	1.5	20	2.3	0.339	< 0.001	0.8	0.006	0.25	170
962745	< 3.0	9.9	< 30	840	< 10	< 20	3.0	9	20	60	0.031	5.9	30	< 10	2.5	20	1.6	0.384	< 0.001	1.0	0.001	0.20	170
962746	< 3.0	8.0	< 30	700	< 10	< 20	2.5	< 3	30	180	0.014	6.9	20	< 10	1.7	20	1.9	0.353	< 0.001	0.7	0.005	0.24	110
962747	< 3.0	8.8	< 30	870	< 10	< 20	2.3	< 3	20	150	0.011	6.1	20	< 10	2.2	20	1.5	0.375	< 0.001	1.1	0.003	0.34	80
962748	< 3.0	9.5	< 30	420	< 10	< 20	4.6	6	40	350	0.066	8.1	20	< 10	1.4	30	4.4	0.642	< 0.001	0.5	0.010	0.13	370
962749	< 3.0	7.5	30	380	< 10	< 20	3.0	4	60	420	0.072	8.5	20	< 10	1.0	30	4.3	0.812	< 0.001	0.2	0.011	0.27	200
962750	< 3.0	9.5	< 30	620	< 10	< 20	2.0	< 3	10	90	0.009	6.2	20	< 10	1.5	30	0.9	0.189	< 0.001	1.0	0.003	0.22	130
962751	< 3.0	10.9	< 30	1090	< 10	< 20	0.6	< 3	< 10	10	0.009	9.0	30	< 10	3.8	10	0.8	0.062	0.001	1.0	0.001	0.38	1450
962752	< 3.0	10.1	< 30	950	< 10	< 20	0.6	< 3	< 10	< 10	0.003	8.3	20	< 10	3.5	< 10	0.8	0.080	0.007	1.3	< 0.001	0.27	110
962753	< 3.0	9.7	50	1170	< 10	< 20	0.4	< 3	< 10	20	0.002	10.2	30	< 10	3.6	10	1.1	0.066	< 0.001	1.0	< 0.001	0.34	50
962754	< 3.0	10.3	< 30	910	< 10	< 20	2.5	4	10	20	0.009	6.0	20	< 10	3.2	20	1.2	0.431	< 0.001	0.9	< 0.001	0.25	380
962755	< 3.0	8.0	< 30	720	< 10	< 20	1.4	< 3	< 10	30	0.003	4.9	20	< 10	2.0	20	0.7	0.269	< 0.001	0.8	< 0.001	0.39	110
962756	< 3.0	9.5	< 30	880	< 10	< 20	3.4	< 3	< 10	70	0.005	4.8	20	< 10	1.9	20	1.0	0.225	< 0.001	1.2	0.002	0.22	140
962757	< 3.0	7.0	< 30	830	< 10	< 20	1.3	< 3	< 10	20	0.003	3.7	10	< 10	1.7	< 10	0.6	0.157	< 0.001	0.7	0.001	0.40	70
962758	< 3.0	8.2	< 30	870	< 10	< 20	2.0	< 3	< 10	30	0.004	4.7	30	< 10	2.3	10	0.7	0.187	< 0.001	0.9	< 0.001	0.29	70
962759	< 3.0	8.0	< 30	740	< 10	< 20	1.7	< 3	< 10	30	0.004	4.4	20	< 10	1.8	10	0.6	0.196	< 0.001	0.7	< 0.001	0.32	80
962760	< 3.0	8.0	< 30	780	< 10	< 20	2.3	< 3	< 10	10	0.003	4.3	20	< 10	1.8	20	0.9	0.198	< 0.001	1.0	< 0.001	0.26	120
962761	< 3.0	9.1	< 30	900	< 10	< 20	2.2	< 3	< 10	20	0.004	4.7	20	< 10	2.4	20	1.0	0.211	< 0.001	1.2	< 0.001	0.23	60
962762	< 3.0	10.3	< 30	890	< 10	< 20	2.8	3	< 10	20	0.008	5.0	20	< 10	2.6	20	1.2	0.280	< 0.001	1.2	< 0.001	0.22	170
962763	< 3.0	10.8	< 30	1090	< 10	< 20	2.2	< 3	< 10	< 10	0.014	4.8	20	< 10	3.4	20	1.4	0.263	< 0.001	1.1	< 0.001	0.18	260
962764	3.1	6.7	< 30	900	< 10	< 20	2.1	13	10	20	0.016	6.0	30	< 10	2.6	20	1.0	0.395	< 0.001	0.9	< 0.001	0.17	400
962765	< 3.0	10.0	< 30	1110	< 10	< 20	0.8	< 3	< 10	30	0.005	4.8	20	< 10	3.4	20	0.7	0.255	< 0.001	0.8	< 0.001	0.29	80
962766	< 3.0	10.0	< 30	860	< 10	< 20	0.2	< 3	10	20	0.002	5.6	20	< 10	2.8	10	0.5	0.330	< 0.001	1.1	< 0.001	0.28	70
962767	< 3.0	9.0	< 30	760	< 10	< 20	0.5	< 3	10	50	0.008	5.6	20	< 10	2.7	20	0.7	0.201	< 0.001	1.0	0.002	0.33	40
962768	< 3.0	8.2	< 30	370	< 10	< 20	1.4	< 3	30	150	0.009	7.5	20	< 10	1.0	50	2.8	0.265	< 0.001	0.8	0.005	0.10	< 30
962769	< 3.0	7.5	< 30	460	< 10	< 20	1.1	< 3	10	100	0.005	5.9	20	< 10	1.2	30	1.3	0.069	< 0.001	1.2	0.002	0.09	< 30
962770	< 3.0	7.6	< 30	480	< 10	< 20	1.4	< 3	20	250	0.005	7.5	30	< 10	1.1	40	1.8	0.177	< 0.001	0.9	0.004	0.21	< 30
962771	< 3.0	8.1	< 30	460	< 10	< 20	0.6	< 3	10	70	0.008	5.9	20	< 10	1.5	20	1.0	0.233	< 0.001	1.0	0.001	0.31	< 30
962772	< 3.0	7.2	< 30	730	< 10	< 20	1.0	< 3	< 10	100	0.001	2.1	20	< 10	1.8	< 10	0.5	0.057	< 0.001	1.3	< 0.001	0.10	< 30
962773	< 3.0	6.5	< 30	640	< 10	< 20	0.8	< 3	< 10	70	0.001	3.3	20	< 10	1.3	10	0.8	0.077	< 0.001	1.5	0.001	0.09	< 30

Results**Activation Laboratories Ltd.****Report: A17-07492**

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
962774	< 3.0	7.9	< 30	720	< 10	< 20	0.9	< 3	< 10	50	< 0.001	3.0	20	< 10	1.9	10	0.7	0.078	< 0.001	1.6	< 0.001	0.08	< 30
962775	< 3.0	9.0	< 30	550	< 10	< 20	0.5	< 3	10	60	0.001	5.3	20	< 10	1.6	10	0.7	0.358	< 0.001	1.4	< 0.001	0.22	40
962776	< 3.0	9.6	< 30	480	< 10	< 20	0.6	< 3	< 10	60	0.001	5.3	30	< 10	2.0	< 10	0.6	0.204	< 0.001	1.2	0.001	0.18	30
962777	< 3.0	9.8	< 30	480	< 10	< 20	0.7	< 3	< 10	60	0.002	4.5	30	< 10	1.9	< 10	0.5	0.077	< 0.001	1.3	< 0.001	0.13	< 30
962778	< 3.0	7.6	< 30	470	< 10	< 20	1.5	< 3	10	310	0.002	6.3	20	< 10	1.4	20	1.5	0.194	< 0.001	0.9	0.005	0.28	50
962779	< 3.0	8.7	< 30	700	< 10	< 20	1.2	< 3	10	40	0.003	6.6	20	< 10	1.8	30	0.8	0.200	< 0.001	1.1	0.001	0.27	40
962780	< 3.0	9.4	< 30	630	< 10	< 20	1.1	< 3	20	130	0.021	5.0	20	< 10	2.2	20	1.7	0.263	< 0.001	1.2	0.004	0.12	130
962781	< 3.0	8.9	< 30	750	< 10	< 20	0.7	< 3	< 10	50	0.002	4.3	20	< 10	2.0	20	0.7	0.092	< 0.001	1.5	0.001	0.11	30
962782	< 3.0	8.6	< 30	720	< 10	< 20	0.7	< 3	< 10	40	< 0.001	3.3	20	< 10	1.8	< 10	0.4	0.051	< 0.001	1.6	< 0.001	0.10	40
962783	< 3.0	6.7	< 30	740	< 10	< 20	0.7	< 3	< 10	40	< 0.001	3.8	20	< 10	1.6	10	0.4	0.074	< 0.001	1.7	< 0.001	0.07	< 30
962784	< 3.0	9.0	< 30	940	< 10	< 20	1.1	< 3	< 10	40	0.004	3.9	20	< 10	2.0	20	0.8	0.145	< 0.001	1.6	< 0.001	0.08	50
962785	< 3.0	8.1	< 30	1030	< 10	< 20	1.3	< 3	< 10	40	0.001	3.9	20	< 10	2.1	20	0.6	0.107	< 0.001	1.9	< 0.001	0.08	< 30
962786	< 3.0	9.4	< 30	1010	< 10	< 20	1.4	< 3	< 10	20	0.002	2.4	30	< 10	2.5	< 10	0.3	0.083	< 0.001	1.4	< 0.001	0.10	< 30
962787	< 3.0	8.7	< 30	1240	< 10	< 20	1.6	7	10	20	0.006	3.7	20	< 10	2.7	10	0.7	0.297	< 0.001	1.3	< 0.001	0.14	150
745924	< 3.0	5.8	< 30	530	< 10	< 20	1.8	< 3	< 10	50	0.006	3.6	10	< 10	1.1	10	1.0	0.067	< 0.001	1.7	0.003	0.07	< 30
745925	< 3.0	9.5	< 30	830	< 10	< 20	4.0	< 3	20	60	0.015	6.2	20	< 10	1.7	30	2.0	0.136	< 0.001	1.6	0.003	0.20	< 30

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS																			
952450	0.1	< 50	< 40	130	< 20	0.3	< 50	< 100	110	< 50	10	0.014	80	0.017	< 1	0.348	6.1	0.3	< 1	0.023	0.32	2.61	0.11
952451	0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	130	< 50	20	0.026	100	0.014	< 1	0.118	11.9	0.9	< 1	0.026	0.73	1.78	0.20
952452	0.2	< 50	< 40	250	40	0.4	< 50	< 100	160	< 50	40	0.046	130	0.018	< 1	0.155	13.8	1.2	< 1	0.030	0.93	2.45	0.27
952453	< 0.1	< 50	< 40	220	< 20	0.4	< 50	< 100	180	< 50	30	0.012	70	0.016	< 1	0.144	16.9	0.7	< 1	0.023	0.86	2.29	0.21
952454	< 0.1	< 50	< 40	230	< 20	0.4	< 50	< 100	150	< 50	30	0.009	90	0.008	< 1	0.185	9.2	1.5	< 1	0.024	0.48	2.17	0.28
952455	< 0.1	< 50	< 40	100	< 20	0.3	< 50	< 100	80	< 50	10	0.019	< 50	0.006	< 1	0.152	6.4	0.8	< 1	0.017	0.33	1.61	0.31
952456	0.2	< 50	< 40	160	< 20	0.1	< 50	< 100	100	< 50	30	0.009	< 50	0.021	< 1	0.544	5.8	1.2	< 1	0.025	0.28	1.94	0.13
952457	0.3	< 50	< 40	180	< 20	0.4	< 50	< 100	150	< 50	20	0.091	140	0.018	< 1	0.184	13.5	1.4	< 1	0.049	0.58	2.71	0.22
952458	0.6	< 50	< 40	140	< 20	0.5	< 50	< 100	160	< 50	< 10	0.010	120	0.014	< 1	0.155	3.2	0.5	< 1	0.094	0.16	1.89	0.30
952459	0.3	< 50	< 40	160	< 20	0.3	< 50	< 100	130	< 50	10	0.015	70	0.012	< 1	0.216	5.9	0.4	< 1	0.059	0.29	2.06	0.28
952460	0.1	< 50	< 40	260	< 20	0.2	< 50	< 100	100	< 50	10	0.010	70	0.014	< 1	0.271	4.0	0.6	< 1	0.032	0.18	2.58	0.20
952461	0.2	< 50	< 40	220	< 20	0.4	< 50	< 100	120	< 50	10	0.018	100	0.021	< 1	0.112	11.6	0.6	< 1	0.023	0.31	2.08	0.18
952462	< 0.1	< 50	< 40	190	< 20	0.4	< 50	< 100	100	< 50	10	0.017	130	0.074	< 1	0.109	15.5	0.6	< 1	0.027	0.27	2.96	0.09
952463	< 0.1	< 50	< 40	170	< 20	0.4	< 50	< 100	100	< 50	10	0.013	150	0.058	< 1	0.105	10.6	0.8	< 1	0.026	0.18	2.49	0.10
952464	< 0.1	< 50	< 40	200	< 20	0.2	< 50	< 100	90	< 50	10	0.009	< 50	0.072	< 1	0.128	6.1	0.4	< 1	0.024	0.27	2.13	0.08
952465	< 0.1	< 50	< 40	250	< 20	0.3	< 50	< 100	100	< 50	10	0.014	110	0.082	< 1	0.158	7.3	0.6	< 1	0.029	0.32	2.10	0.11
952466	< 0.1	< 50	< 40	220	< 20	0.3	< 50	< 100	90	< 50	10	0.040	70	0.084	< 1	0.101	18.9	0.6	< 1	0.026	0.41	2.12	0.08
952467	0.5	< 50	< 40	10	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	0.066	< 50	0.005	< 1	0.068	0.1	0.1	< 1	0.021	< 0.01	0.31	0.02
952468	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	80	< 50	10	0.007	70	0.077	< 1	0.035	4.5	0.3	< 1	0.027	0.26	1.25	0.08
952469	< 0.1	< 50	< 40	210	< 20	0.2	< 50	< 100	90	< 50	10	0.011	60	0.082	< 1	0.087	13.4	0.4	< 1	0.024	0.36	1.99	0.09
952470	< 0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	90	< 50	10	0.012	90	0.137	< 1	0.048	5.7	0.4	< 1	0.023	0.15	1.32	0.06
952471	< 0.1	< 50	< 40	210	< 20	0.4	< 50	< 100	120	< 50	10	0.014	80	0.084	< 1	0.094	11.4	0.6	< 1	0.024	0.44	2.73	0.12
952472	< 0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	120	< 50	20	0.017	160	0.113	< 1	0.289	10.7	0.7	< 1	0.028	0.37	2.64	0.10
952473	0.3	< 50	< 40	190	< 20	0.4	< 50	< 100	120	< 50	20	0.011	130	0.065	< 1	0.100	6.3	0.5	< 1	0.050	0.27	1.95	0.24
952474	0.1	< 50	< 40	150	< 20	0.3	< 50	< 100	90	< 50	20	0.010	180	0.056	< 1	0.462	10.7	0.5	6	0.043	0.34	3.24	0.18
952475	< 0.1	< 50	< 40	330	< 20	0.4	< 50	< 100	120	< 50	20	0.015	110	0.086	< 1	0.198	11.2	0.7	< 1	0.023	0.49	3.39	0.09
952476	< 0.1	< 50	< 40	240	< 20	0.2	< 50	< 100	110	< 50	20	0.036	< 50	0.069	< 1	0.494	17.5	1.0	< 1	0.025	0.50	3.37	0.11
952477	< 0.1	< 50	< 40	280	60	0.3	< 50	< 100	90	< 50	20	0.032	100	0.132	< 1	0.158	12.7	0.8	< 1	0.026	0.40	2.95	0.11
952478	< 0.1	< 50	< 40	260	< 20	0.4	< 50	< 100	120	< 50	10	0.102	90	0.093	< 1	0.120	23.3	0.8	< 1	0.027	0.61	3.32	0.24
952479	0.2	< 50	< 40	360	< 20	0.4	< 50	< 100	100	< 50	20	0.130	80	0.025	< 1	0.129	10.2	0.7	< 1	0.030	0.39	2.56	0.26
952480	0.1	< 50	< 40	220	< 20	0.4	< 50	< 100	90	< 50	10	0.232	80	0.023	< 1	0.134	14.4	0.9	< 1	0.026	0.41	3.25	0.28
952481	< 0.1	< 50	< 40	340	< 20	0.4	< 50	< 100	110	< 50	20	0.081	90	0.067	< 1	0.256	15.0	1.0	1	0.025	0.69	3.08	0.27
952482	< 0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	70	< 50	10	0.022	60	0.076	< 1	0.014	4.0	0.4	< 1	0.026	0.15	1.34	0.05
952483	< 0.1	< 50	< 40	310	< 20	< 0.1	< 50	< 100	30	< 50	10	0.056	< 50	0.098	< 1	0.026	14.1	0.4	< 1	0.023	0.42	1.89	0.11
952484	< 0.1	< 50	< 40	240	< 20	0.2	< 50	< 100	80	< 50	10	0.138	< 50	0.032	< 1	0.113	13.9	0.7	< 1	0.025	0.75	2.26	0.22
952485	< 0.1	< 50	< 40	250	20	0.2	< 50	< 100	80	< 50	10	0.039	70	0.106	< 1	0.034	17.0	0.4	< 1	0.026	0.37	1.69	0.08
952486	0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	100	< 50	50	0.233	100	0.040	< 1	0.136	48.1	3.3	< 1	0.026	0.57	4.02	0.20
952487	< 0.1	< 50	< 40	290	< 20	0.2	< 50	< 100	90	< 50	10	0.021	70	0.061	< 1	0.044	4.2	0.3	< 1	0.026	0.12	1.37	0.06
952488	< 0.1	< 50	< 40	150	< 20	0.4	< 50	< 100	110	< 50	< 10	0.051	140	0.106	< 1	0.222	21.0	0.7	< 1	0.026	0.41	4.14	0.08
952489	< 0.1	< 50	< 40	260	30	0.3	< 50	< 100	90	< 50	10	0.029	100	0.117	< 1	0.132	14.8	0.7	< 1	0.025	0.37	3.38	0.07
952490	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	90	< 50	10	0.036	100	0.119	< 1	0.105	13.4	0.6	< 1	0.028	0.44	2.63	0.08
952491	0.2	< 50	< 40	250	< 20	0.4	< 50	< 100	140	< 50	20	0.020	100	0.151	< 1	0.169	10.2	0.8	< 1	0.036	0.82	3.71	0.13

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
952492	< 0.1	< 50	< 40	260	< 20	< 0.1	< 50	< 100	30	< 50	10	0.016	50	0.104	< 1	0.011	6.1	0.3	< 1	0.028	0.18	1.25	0.05
952493	< 0.1	< 50	< 40	270	< 20	0.3	< 50	< 100	80	< 50	10	0.024	80	0.112	< 1	0.073	11.5	0.7	< 1	0.029	0.48	2.43	0.09
952494	< 0.1	< 50	< 40	200	< 20	0.3	< 50	< 100	90	< 50	10	0.038	70	0.088	< 1	0.211	22.6	1.1	< 1	0.026	0.41	3.93	0.09
952495	< 0.1	< 50	< 40	250	< 20	0.2	< 50	< 100	60	< 50	10	0.007	70	0.086	< 1	0.046	8.6	0.5	< 1	0.027	0.33	2.23	0.06
952496	< 0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	120	< 50	20	0.036	120	0.138	< 1	0.158	21.6	1.1	< 1	0.029	0.78	4.53	0.08
952497	< 0.1	< 50	< 40	200	< 20	0.4	< 50	< 100	130	< 50	10	0.016	130	0.101	< 1	0.134	19.6	0.8	< 1	0.025	0.38	4.20	0.08
952498	< 0.1	< 50	< 40	250	< 20	0.2	< 50	< 100	70	< 50	10	0.034	60	0.121	< 1	0.087	23.5	0.5	< 1	0.027	0.51	2.45	0.08
952499	< 0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	100	< 50	10	0.020	70	0.086	< 1	0.088	12.8	0.5	< 1	0.027	0.34	2.14	0.07
745922	< 0.1	< 50	< 40	230	< 20	0.3	< 50	< 100	80	< 50	20	0.005	70	0.169	< 1	0.062	9.9	0.5	12	0.146	0.73	1.56	0.14
745923	0.2	< 50	< 40	520	< 20	0.6	< 50	< 100	140	< 50	30	0.011	160	0.285	< 1	0.166	23.4	0.9	< 1	0.306	1.94	3.74	0.29
962700	< 0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	10	0.021	80	0.091	< 1	0.138	10.0	0.4	< 1	0.025	0.20	2.04	0.05
962701	< 0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	150	< 50	30	0.317	120	0.083	< 1	0.042	30.0	1.9	< 1	0.029	0.77	3.30	0.12
962702	< 0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	80	< 50	10	0.046	60	0.116	< 1	0.102	13.5	0.5	< 1	0.022	0.33	2.15	0.06
962703	< 0.1	< 50	< 40	290	< 20	0.3	< 50	< 100	70	< 50	10	0.013	50	0.113	< 1	0.069	7.4	0.4	< 1	0.023	0.28	1.41	0.05
962704	< 0.1	< 50	< 40	250	< 20	0.2	< 50	< 100	110	< 50	10	0.029	80	0.106	< 1	0.053	12.8	0.4	< 1	0.026	0.29	1.53	0.06
962705	< 0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	90	< 50	10	0.046	70	0.148	< 1	0.055	11.3	0.5	< 1	0.028	0.40	1.89	0.05
962706	0.1	< 50	< 40	160	< 20	0.2	< 50	< 100	110	< 50	10	0.012	< 50	0.012	< 1	0.279	8.9	1.0	< 1	0.028	0.37	1.79	0.16
962707	< 0.1	< 50	< 40	110	< 20	0.6	< 50	< 100	150	< 50	50	0.020	110	0.011	< 1	0.202	14.9	1.0	1	0.022	0.91	1.88	0.30
962708	< 0.1	< 50	< 40	280	< 20	0.3	< 50	< 100	100	< 50	20	0.011	80	0.049	< 1	0.093	13.3	0.5	< 1	0.065	1.09	1.39	0.19
962709	< 0.1	< 50	< 40	240	< 20	0.4	< 50	< 100	160	< 50	40	0.009	90	0.045	< 1	0.209	25.2	1.4	2	0.027	1.40	2.46	0.32
962710	0.3	< 50	< 40	310	< 20	0.4	< 50	< 100	130	< 50	20	0.022	120	0.029	< 1	0.189	10.6	0.9	< 1	0.055	0.42	2.93	0.20
962711	0.3	< 50	< 40	200	< 20	0.4	< 50	< 100	110	< 50	20	0.025	110	0.023	< 1	0.167	9.0	0.9	< 1	0.049	0.43	2.46	0.18
962712	0.2	< 50	< 40	250	40	0.3	< 50	< 100	110	< 50	30	0.057	100	0.037	< 1	0.095	13.9	1.5	< 1	0.020	0.44	1.34	0.27
962713	0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	90	< 50	20	0.021	100	0.012	< 1	0.093	9.1	1.0	< 1	0.027	0.26	1.93	0.14
962714	0.1	< 50	< 40	280	40	0.4	< 50	< 100	190	< 50	40	0.051	120	0.015	< 1	0.169	14.3	1.8	< 1	0.020	0.46	2.30	0.13
962715	< 0.1	< 50	< 40	120	< 20	0.4	< 50	< 100	130	< 50	10	0.010	80	0.002	< 1	0.086	13.4	1.2	< 1	0.014	0.38	1.28	0.23
962716	0.3	< 50	< 40	90	< 20	0.2	< 50	< 100	60	< 50	40	0.014	< 50	0.012	< 1	0.458	8.5	3.6	< 1	0.016	0.22	1.32	0.10
962717	0.2	< 50	< 40	220	50	0.4	< 50	< 100	140	< 50	10	0.030	80	0.008	< 1	0.104	9.2	1.2	< 1	0.019	0.33	1.38	0.17
962718	0.3	< 50	< 40	140	< 20	0.4	< 50	< 100	120	< 50	10	0.032	80	0.003	< 1	0.121	2.3	0.5	< 1	0.016	0.07	0.83	0.18
962719	< 0.1	< 50	< 40	260	< 20	0.4	< 50	< 100	120	< 50	10	0.019	110	0.012	< 1	0.100	6.7	0.9	< 1	0.018	0.16	1.29	0.12
962720	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	100	< 50	10	0.020	< 50	0.026	< 1	0.079	5.7	0.6	< 1	0.016	0.23	1.39	0.08
962721	< 0.1	< 50	< 40	270	< 20	0.3	< 50	< 100	80	< 50	10	0.013	90	0.013	< 1	0.040	6.5	0.5	< 1	0.016	0.20	1.44	0.07
962722	< 0.1	< 50	< 40	280	30	0.3	< 50	< 100	80	< 50	10	0.032	80	0.020	< 1	0.056	12.4	1.0	< 1	0.019	0.33	1.64	0.12
962723	< 0.1	< 50	< 40	270	< 20	0.2	< 50	< 100	70	< 50	10	0.007	70	0.019	< 1	0.025	1.6	0.7	< 1	0.016	0.11	1.59	0.09
962724	0.2	< 50	< 40	200	< 20	0.4	< 50	< 100	130	< 50	10	0.011	90	0.019	< 1	0.109	6.8	0.5	< 1	0.019	0.21	1.74	0.11
962725	0.2	< 50	< 40	170	< 20	0.5	< 50	< 100	160	< 50	10	0.017	140	0.026	< 1	0.088	6.5	0.7	< 1	0.027	0.32	2.27	0.17
962726	0.4	< 50	< 40	160	< 20	0.4	< 50	< 100	110	< 50	10	0.013	110	0.014	< 1	0.141	5.2	0.8	< 1	0.037	0.23	1.76	0.18
962727	< 0.1	< 50	< 40	160	< 20	0.3	< 50	< 100	110	< 50	20	0.009	60	0.012	< 1	0.181	9.3	1.3	< 1	0.017	0.17	1.35	0.16
962728	< 0.1	< 50	< 40	200	< 20	0.4	< 50	< 100	100	< 50	< 10	0.007	90	0.006	< 1	0.100	1.0	0.4	< 1	0.016	0.07	1.09	0.14
962729	< 0.1	< 50	< 40	190	< 20	0.2	< 50	< 100	70	< 50	< 10	0.010	60	0.003	< 1	0.046	3.5	0.4	< 1	0.016	0.15	1.07	0.14
962730	< 0.1	< 50	< 40	210	< 20	0.4	< 50	< 100	100	< 50	10	0.012	80	0.010	< 1	0.085	5.5	0.8	< 1	0.018	0.19	1.53	0.18
962731	< 0.1	< 50	< 40	190	< 20	0.3	< 50	< 100	110	< 50	10	0.018	80	0.008	< 1	0.081	8.6	0.7	< 1	0.018	0.25	1.47	0.15

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
962732	< 0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	120	< 50	10	0.016	70	0.012	< 1	0.148	6.8	0.8	< 1	0.019	0.29	1.63	0.18
962733	< 0.1	< 50	< 40	120	< 20	0.2	< 50	< 100	100	< 50	10	0.023	60	0.007	< 1	0.075	14.1	0.9	< 1	0.016	0.28	1.50	0.24
962734	< 0.1	< 50	< 40	160	< 20	0.5	< 50	< 100	150	< 50	10	0.021	100	0.010	< 1	0.108	7.3	0.8	< 1	0.014	0.43	1.58	0.17
962735	< 0.1	< 50	< 40	130	< 20	0.5	< 50	< 100	130	< 50	10	0.014	130	0.006	< 1	0.102	3.5	0.7	< 1	0.018	0.16	1.19	0.18
962736	< 0.1	< 50	< 40	350	< 20	0.6	< 50	< 100	280	< 50	20	0.068	80	0.093	< 1	0.072	25.0	1.0	< 1	0.017	1.75	2.61	0.15
962737	< 0.1	< 50	< 40	160	< 20	0.6	< 50	< 100	270	< 50	30	0.056	100	0.032	< 1	0.073	26.7	1.3	< 1	0.021	2.11	2.61	0.25
962738	0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	240	< 50	20	0.098	60	0.025	< 1	0.101	28.3	1.3	< 1	0.018	1.30	2.69	0.14
962739	< 0.1	< 50	< 40	580	< 20	0.5	< 50	< 100	270	< 50	20	0.122	50	0.201	< 1	0.081	15.0	0.7	< 1	0.032	2.60	2.51	0.04
962740	< 0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	100	< 50	60	0.012	< 50	0.012	< 1	0.167	11.1	1.6	< 1	0.020	0.61	1.41	0.33
962741	< 0.1	< 50	< 40	270	20	0.3	< 50	< 100	120	< 50	30	0.027	90	0.057	< 1	0.105	13.1	1.6	< 1	0.021	0.67	1.83	0.21
962742	< 0.1	< 50	< 40	300	60	0.4	< 50	< 100	130	< 50	20	0.027	90	0.031	< 1	0.107	11.5	1.1	< 1	0.015	0.55	1.54	0.13
962743	< 0.1	< 50	< 40	410	< 20	0.3	< 50	< 100	110	< 50	20	0.026	80	0.100	< 1	0.089	8.5	0.7	< 1	0.019	0.54	1.34	0.09
962744	< 0.1	< 50	< 40	340	20	0.4	< 50	< 100	180	< 50	10	0.046	80	0.051	< 1	0.087	19.0	1.1	< 1	0.019	1.38	2.35	0.12
962745	< 0.1	< 50	< 40	400	< 20	0.4	< 50	< 100	170	< 50	20	0.124	120	0.069	< 1	0.100	15.7	1.3	< 1	0.023	0.96	2.18	0.19
962746	0.1	< 50	< 40	370	20	0.4	< 50	< 100	170	< 50	20	0.047	70	0.044	< 1	0.078	18.2	1.1	< 1	0.020	0.96	2.19	0.11
962747	< 0.1	< 50	< 40	340	< 20	0.5	< 50	< 100	170	< 50	20	0.054	130	0.071	< 1	0.135	13.5	1.3	< 1	0.021	0.93	2.33	0.08
962748	< 0.1	< 50	< 40	410	< 20	0.5	< 50	< 100	280	< 50	30	0.100	90	0.188	< 1	0.068	29.8	1.3	< 1	0.017	2.60	2.92	0.15
962749	0.1	< 50	40	250	< 20	0.4	< 50	< 100	260	< 50	20	0.082	< 50	0.069	< 1	0.129	24.8	1.0	< 1	0.016	2.59	2.84	0.10
962750	0.1	< 50	< 40	300	< 20	0.4	< 50	< 100	130	< 50	20	0.030	100	0.020	< 1	0.112	22.7	1.4	< 1	0.025	0.56	2.43	0.13
962751	1.3	< 50	< 40	270	< 20	0.5	< 50	< 100	170	< 50	10	0.016	90	0.042	< 1	0.213	7.2	0.7	< 1	0.116	0.28	1.56	0.53
962752	0.6	< 50	< 40	240	< 20	0.4	< 50	< 100	150	< 50	10	0.017	70	0.082	< 1	0.155	5.6	0.6	< 1	0.061	0.34	1.28	0.25
962753	1.3	< 50	< 40	230	< 20	0.5	< 50	< 100	150	< 50	10	0.012	90	0.082	< 1	0.194	8.3	0.4	< 1	0.170	0.43	1.31	0.41
962754	0.2	< 50	< 40	330	< 20	0.5	< 50	< 100	160	< 50	30	0.101	120	0.051	< 1	0.152	14.8	1.7	< 1	0.030	0.71	2.21	0.27
962755	0.2	< 50	< 40	210	< 20	0.4	< 50	< 100	110	< 50	20	0.023	100	0.013	< 1	0.121	11.6	1.4	< 1	0.027	0.36	1.72	0.17
962756	< 0.1	< 50	< 40	510	30	0.4	< 50	< 100	140	< 50	20	0.045	100	0.063	< 1	0.118	12.9	0.9	< 1	0.019	0.68	2.08	0.10
962757	0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	100	< 50	10	0.015	80	0.011	< 1	0.133	7.2	0.9	< 1	0.019	0.37	1.84	0.11
962758	< 0.1	< 50	< 40	270	< 20	0.3	< 50	< 100	120	< 50	20	0.025	70	0.023	< 1	0.091	9.5	1.3	< 1	0.027	0.41	1.73	0.14
962759	< 0.1	< 50	< 40	240	< 20	0.3	< 50	< 100	130	< 50	10	0.017	60	0.018	< 1	0.089	6.8	0.9	< 1	0.017	0.32	1.91	0.10
962760	< 0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	120	< 50	20	0.034	60	0.028	< 1	0.082	14.1	1.1	< 1	0.017	0.62	1.98	0.09
962761	< 0.1	< 50	< 40	320	70	0.4	< 50	< 100	130	< 50	20	0.033	110	0.060	< 1	0.080	15.1	1.0	< 1	0.021	0.64	1.92	0.15
962762	< 0.1	< 50	< 40	440	< 20	0.4	< 50	< 100	130	< 50	20	0.042	110	0.083	< 1	0.124	15.1	1.3	< 1	0.022	0.77	2.21	0.21
962763	< 0.1	< 50	< 40	330	30	0.3	< 50	< 100	110	< 50	30	0.027	90	0.075	< 1	0.114	13.0	0.9	< 1	0.020	0.85	1.83	0.36
962764	0.2	< 50	< 40	260	60	0.4	< 50	< 100	170	< 50	20	0.147	90	0.055	< 1	0.131	15.0	1.4	< 1	0.026	0.76	1.97	0.31
962765	0.1	< 50	< 40	110	< 20	0.4	< 50	< 100	120	< 50	110	0.015	100	0.008	< 1	0.156	14.5	1.6	< 1	0.019	0.26	1.73	0.36
962766	< 0.1	< 50	< 40	130	< 20	0.5	< 50	< 100	140	< 50	10	0.015	90	0.007	< 1	0.151	8.6	0.8	< 1	0.018	0.20	1.72	0.23
962767	< 0.1	< 50	< 40	140	< 20	0.5	< 50	< 100	160	< 50	10	0.017	90	0.006	< 1	0.153	12.7	0.8	< 1	0.017	0.38	1.44	0.24
962768	< 0.1	< 50	< 40	190	< 20	0.3	< 50	< 100	230	< 50	10	0.021	60	0.076	< 1	0.052	45.1	1.0	< 1	0.022	1.87	3.41	0.10
962769	< 0.1	< 50	< 40	190	< 20	0.2	< 50	< 100	100	< 50	10	0.014	< 50	0.074	< 1	0.048	29.2	0.6	< 1	0.022	0.77	2.63	0.09
962770	< 0.1	< 50	< 40	170	< 20	0.3	< 50	< 100	180	< 50	10	0.023	60	0.068	< 1	0.116	32.9	0.5	< 1	0.022	1.00	2.69	0.11
962771	< 0.1	< 50	< 40	130	< 20	0.4	< 50	< 100	200	< 50	10	0.022	< 50	0.022	< 1	0.237	13.0	0.5	< 1	0.026	0.78	2.91	0.17
962772	< 0.1	< 50	< 40	230	< 20	0.4	< 50	< 100	80	< 50	10	0.007	100	0.011	< 1	0.040	4.0	0.3	< 1	0.022	0.31	1.88	0.09
962773	< 0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	100	< 50	< 10	0.012	70	0.023	< 1	0.043	10.0	0.3	< 1	0.022	0.50	1.92	0.08

Results**Activation Laboratories Ltd.****Report: A17-07492**

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
962774	< 0.1	< 50	< 40	230	< 20	0.2	< 50	< 100	60	< 50	10	0.011	70	0.028	< 1	0.036	9.5	0.3	< 1	0.027	0.44	1.81	0.09
962775	< 0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	130	< 50	< 10	0.016	60	0.013	< 1	0.140	7.1	0.5	< 1	0.021	0.45	2.54	0.09
962776	< 0.1	< 50	< 40	160	< 20	0.3	< 50	< 100	120	< 50	< 10	0.020	70	0.008	< 1	0.122	4.9	0.5	< 1	0.025	0.34	2.77	0.12
962777	< 0.1	< 50	< 40	150	< 20	0.4	< 50	< 100	110	< 50	10	0.012	120	0.011	< 1	0.069	4.5	0.4	< 1	0.026	0.23	3.04	0.10
962778	< 0.1	< 50	< 40	180	30	0.4	< 50	< 100	180	< 50	< 10	0.028	50	0.023	< 1	0.100	12.6	0.5	< 1	0.026	0.60	2.53	0.10
962779	< 0.1	< 50	< 40	280	< 20	0.4	< 50	< 100	140	< 50	20	0.053	110	0.020	< 1	0.119	26.8	1.0	< 1	0.026	0.57	3.04	0.11
962780	< 0.1	< 50	< 40	180	< 20	0.2	< 50	< 100	90	< 50	10	0.072	60	0.015	< 1	0.069	15.9	0.7	< 1	0.027	1.05	2.95	0.15
962781	< 0.1	< 50	< 40	210	< 20	0.2	< 50	< 100	70	< 50	< 10	0.023	50	0.009	< 1	0.085	15.6	0.6	< 1	0.021	0.49	2.38	0.12
962782	< 0.1	< 50	< 40	200	< 20	0.2	< 50	< 100	70	< 50	< 10	0.010	80	0.021	< 1	0.060	4.2	0.4	< 1	0.024	0.20	2.10	0.07
962783	< 0.1	< 50	< 40	190	< 20	0.3	< 50	< 100	100	< 50	< 10	0.017	90	0.018	< 1	0.039	6.3	0.4	< 1	0.022	0.26	1.92	0.11
962784	< 0.1	< 50	< 40	250	< 20	0.3	< 50	< 100	100	< 50	20	0.045	70	0.010	< 1	0.043	12.0	0.6	< 1	0.021	0.56	2.48	0.14
962785	< 0.1	< 50	< 40	290	< 20	0.3	< 50	< 100	100	< 50	10	0.027	70	0.032	< 1	0.054	10.4	0.4	< 1	0.022	0.44	1.40	0.10
962786	< 0.1	< 50	< 40	300	< 20	0.4	< 50	< 100	90	< 50	10	0.011	120	0.003	< 1	0.054	2.3	0.4	< 1	0.026	0.16	2.15	0.12
962787	< 0.1	< 50	< 40	270	30	0.3	< 50	< 100	80	< 50	20	0.037	100	0.007	< 1	0.089	7.8	1.0	< 1	0.022	0.49	1.67	0.14
745924	< 0.1	< 50	< 40	240	< 20	0.2	< 50	< 100	60	< 50	20	0.005	< 50	0.168	< 1	0.054	9.8	0.5	9	0.151	0.67	1.54	0.12
745925	0.2	< 50	< 40	520	< 20	0.3	< 50	< 100	110	< 50	30	0.011	130	0.231	< 1	0.122	21.5	0.8	< 1	0.290	1.68	3.34	0.22

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm														
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952450	0.34	0.19	0.6	70	4	1540	4.23	6.4	2.7	18.3	116	8.57	< 0.1	8.6	16.8	27.7	3.41	1.5	0.7	2.10	1.41	0.04	0.53
952451	0.40	0.60	3.8	66	2	1470	3.74	9.4	3.0	31.7	208	6.62	< 0.1	7.6	10.8	44.9	11.4	0.7	0.3	2.04	0.461	0.05	0.44
952452	0.60	0.85	7.1	77	2	2370	4.68	13.4	3.6	83.5	357	8.08	< 0.1	11.8	15.9	74.4	26.2	0.8	0.4	3.78	0.719	0.06	0.64
952453	0.21	0.47	2.3	102	6	1170	4.22	9.8	6.4	9.69	85.9	6.17	< 0.1	10.4	15.5	24.1	14.2	1.0	0.2	1.03	0.194	0.04	0.56
952454	0.25	0.43	2.9	83	1	1510	4.11	8.7	2.2	5.09	62.1	5.72	< 0.1	16.4	16.8	21.5	17.2	1.9	0.1	0.95	0.364	0.03	0.34
952455	0.22	0.32	0.8	53	6	1330	3.57	7.6	5.0	146	134	4.51	< 0.1	2.8	23.3	17.9	5.61	1.0	0.3	2.03	0.424	0.02	0.42
952456	0.23	0.58	2.7	51	3	4960	3.15	17.7	2.9	27.8	71.2	6.25	< 0.1	15.8	12.2	31.8	17.8	3.3	0.3	1.85	0.418	0.05	0.35
952457	1.22	0.19	3.3	80	10	3530	6.03	28.5	9.8	109	755	8.72	0.1	13.4	13.0	52.1	12.1	1.6	0.5	8.25	0.726	0.09	0.81
952458	2.31	0.05	0.4	44	2	607	5.05	1.8	1.4	38.1	76.6	6.79	< 0.1	17.1	15.2	78.4	2.90	0.5	0.4	5.80	1.57	0.18	0.51
952459	2.02	0.11	0.3	53	5	766	4.07	3.3	3.5	50.6	114	7.39	< 0.1	10.1	19.5	67.9	3.70	0.7	0.4	7.11	0.813	0.12	0.70
952460	0.85	0.08	0.5	44	7	368	2.74	2.0	3.4	67.5	91.0	8.65	< 0.1	3.7	18.6	167	4.93	2.0	1.0	5.92	0.457	0.06	0.95
952461	3.90	0.13	1.4	59	7	404	5.19	4.3	4.6	262	141	8.59	< 0.1	8.4	18.9	101	3.93	0.7	1.3	24.6	4.27	0.11	0.75
952462	0.41	0.13	2.3	57	12	242	3.71	3.9	6.7	22.3	132	9.60	< 0.1	3.8	11.7	67.4	4.33	1.5	5.7	5.61	0.646	0.05	1.24
952463	0.43	0.12	1.6	57	8	206	3.98	2.2	4.0	17.7	96.3	10.9	< 0.1	3.9	13.3	57.3	3.23	1.1	7.6	6.49	0.958	0.05	1.81
952464	0.45	0.12	2.2	72	14	243	3.79	3.3	6.4	13.5	66.5	10.3	< 0.1	7.3	9.8	53.2	3.06	0.7	2.8	2.96	0.686	0.05	1.19
952465	0.50	0.15	3.1	70	13	277	3.70	3.5	6.3	14.3	104	9.64	< 0.1	6.8	15.1	93.2	3.43	1.7	1.8	3.45	0.389	0.06	1.36
952466	0.35	0.24	2.9	76	15	489	3.54	5.9	8.6	15.3	326	10.2	< 0.1	5.6	7.4	53.5	4.66	0.6	0.9	2.45	0.220	0.03	1.22
952467	0.03	0.02	1.1	2	< 1	74	> 30.0	1.1	0.5	18.2	575	0.26	0.3	17.2	1.1	8.4	3.56	2.5	0.1	7.13	0.328	< 0.02	0.12
952468	0.20	0.26	2.0	68	16	217	2.41	3.4	7.0	19.0	51.7	6.23	< 0.1	3.5	7.6	39.2	4.19	0.3	0.6	3.80	0.146	0.02	0.61
952469	0.32	0.20	2.4	80	20	372	3.99	4.7	8.8	24.1	92.5	8.11	< 0.1	7.0	11.0	39.3	3.58	0.7	1.9	2.14	0.261	0.04	0.68
952470	0.17	0.15	2.6	97	14	311	3.42	3.2	3.9	11.2	97.3	8.70	< 0.1	3.2	7.1	27.4	2.76	1.3	3.1	2.50	0.347	0.02	1.12
952471	0.61	0.23	3.5	101	28	434	5.03	4.5	10.1	27.2	118	10.4	0.1	8.7	20.4	59.3	3.26	1.1	1.1	4.32	1.17	0.06	0.68
952472	0.57	0.29	3.7	88	15	410	4.86	4.6	7.5	27.0	150	11.8	0.1	12.3	12.0	104	4.96	1.2	4.9	3.85	0.557	0.04	1.92
952473	0.88	0.19	2.6	64	12	317	3.43	2.6	5.1	28.9	89.4	9.12	< 0.1	5.6	20.5	59.9	3.21	0.9	3.2	6.18	1.45	0.07	1.43
952474	0.33	0.24	2.3	54	11	656	4.62	3.1	4.7	24.0	80.7	12.9	< 0.1	9.1	20.9	41.6	3.41	0.9	7.7	3.46	1.59	0.04	2.49
952475	0.33	0.76	3.9	72	7	912	4.50	5.9	3.6	31.6	133	10.3	0.1	3.0	15.3	95.8	4.52	0.6	2.0	1.71	0.603	0.05	0.91
952476	0.69	0.46	2.8	74	12	845	5.07	8.0	6.1	36.5	321	11.5	0.1	13.6	16.8	64.8	4.41	1.1	3.9	3.48	0.882	0.07	1.56
952477	0.65	0.47	3.6	71	10	710	3.80	5.0	4.0	48.2	278	10.3	< 0.1	6.5	15.3	69.2	4.26	1.4	3.7	2.84	0.673	0.06	1.22
952478	0.78	0.42	3.4	79	11	1210	3.59	9.6	5.7	39.2	814	11.2	0.1	4.8	31.7	66.5	4.07	0.6	1.0	2.56	0.525	0.05	0.71
952479	1.40	0.80	1.7	43	13	1320	2.98	10.3	5.2	64.5	1120	8.52	< 0.1	3.9	29.5	159	3.50	0.5	1.4	2.08	0.605	0.07	0.49
952480	0.90	0.64	1.8	43	12	3150	2.92	20.7	5.9	54.6	1690	9.15	0.1	2.8	52.8	76.1	4.83	0.4	1.0	3.26	0.636	0.04	0.67
952481	0.88	0.94	4.6	64	11	1380	3.45	11.6	7.6	104	682	9.72	0.1	4.9	22.7	116	5.28	0.9	0.9	1.86	0.251	0.04	0.58
952482	0.25	0.43	3.1	76	10	301	2.29	2.4	2.5	7.00	148	6.60	< 0.1	1.6	3.4	46.5	3.06	0.9	0.7	6.25	0.215	0.02	0.62
952483	0.34	0.48	3.8	75	11	551	2.72	6.0	4.9	14.1	464	7.65	< 0.1	3.4	11.0	62.4	3.75	2.3	0.9	11.1	0.307	0.03	0.55
952484	0.79	0.70	3.6	58	9	1470	3.99	12.4	7.1	111	1100	7.70	< 0.1	6.4	15.6	67.0	6.00	0.7	0.9	18.0	0.284	0.16	0.55
952485	0.26	0.30	3.3	95	18	535	3.27	6.7	7.5	29.4	325	8.67	< 0.1	4.0	10.5	33.2	3.03	2.0	1.5	2.99	0.286	0.02	0.97
952486	0.69	0.72	7.3	68	22	> 10000	11.4	57.9	22.3	99.1	2030	8.24	0.2	8.9	24.8	77.4	38.0	1.5	1.0	18.3	0.570	0.06	0.77
952487	0.29	0.21	3.0	127	18	305	4.01	4.6	4.1	8.62	128	9.35	< 0.1	2.2	5.9	25.0	3.00	0.6	1.2	1.12	0.471	0.02	0.90
952488	0.60	0.23	4.3	81	20	585	4.67	7.1	7.1	18.6	451	14.0	0.1	5.9	12.3	32.2	3.77	6.5	3.9	2.82	1.04	0.05	2.22
952489	0.56	0.39	3.5	73	14	698	3.46	5.8	5.7	13.6	243	10.3	< 0.1	3.7	10.4	54.3	3.75	2.0	1.9	2.04	0.470	0.04	1.16
952490	0.40	0.32	3.7	72	17	618	3.49	8.5	8.8	23.0	315	8.84	< 0.1	4.5	11.5	42.5	3.99	3.5	1.8	2.45	0.740	0.04	1.13
952491	2.42	0.29	4.3	91	8	1400	6.09	5.9	3.5	24.7	172	10.3	0.1	8.5	14.2	61.0	5.07	5.2	2.0	14.1	1.42	0.09	0.86

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS											
952492	0.17	0.19	2.7	98	12	245	3.11	3.5	3.0	7.05	109	7.14	< 0.1	2.2	7.4	22.9	2.38	3.6	0.9	4.30	0.429	< 0.02	0.94
952493	0.41	0.33	3.4	64	17	521	2.87	6.9	10.2	28.9	207	7.22	< 0.1	5.2	12.6	44.5	4.32	4.1	1.6	1.43	0.738	0.03	0.72
952494	2.32	0.36	3.5	70	20	585	4.72	11.3	12.0	36.4	314	9.53	0.1	10.3	11.1	56.6	4.86	2.0	3.8	3.15	0.975	0.04	3.41
952495	0.95	0.28	3.2	63	13	303	2.31	4.1	5.0	32.1	56.3	9.73	< 0.1	3.1	7.8	42.6	3.52	3.4	2.0	3.61	0.428	0.03	1.23
952496	1.19	0.33	5.0	96	22	883	5.91	12.8	13.3	40.4	294	15.1	< 0.1	7.8	13.6	52.6	5.26	10.7	1.4	6.93	0.663	0.05	1.29
952497	6.93	0.28	4.1	105	18	399	5.27	6.7	7.5	24.6	135	15.4	0.1	6.1	11.5	48.5	4.66	10.8	2.2	27.2	0.956	0.06	1.73
952498	0.82	0.26	3.3	106	18	612	4.94	8.2	9.1	20.4	296	11.5	< 0.1	7.5	14.2	37.9	3.57	2.5	1.8	2.38	0.470	0.04	1.18
952499	0.56	0.22	2.8	85	18	365	3.73	4.8	7.2	16.0	176	9.59	< 0.1	5.6	9.0	30.7	2.62	0.8	1.3	2.00	0.590	0.03	0.71
745922	0.06	0.97	5.7	62	32	505	3.15	8.5	28.4	50.1	41.9	5.09	0.1	4.4	4.7	47.7	8.61	10.8	0.1	4.49	0.179	0.03	2.34
745923	0.15	3.53	12.3	128	45	1320	6.38	26.3	30.7	158	102	11.3	< 0.1	12.4	9.4	253	18.7	16.0	0.6	3.25	0.183	0.06	1.08
962700	0.58	0.42	2.6	66	9	334	3.43	3.0	3.5	11.3	167	9.57	< 0.1	4.3	6.7	90.7	3.52	0.7	1.8	6.32	0.570	0.02	0.94
962701	1.03	0.54	6.0	116	30	1850	4.75	15.4	19.9	330	2680	10.1	< 0.1	9.1	17.2	53.8	14.5	2.8	2.1	32.6	0.738	0.05	0.99
962702	0.53	0.37	2.8	64	12	452	2.92	5.3	5.7	16.7	344	9.55	< 0.1	2.8	9.4	65.6	3.04	2.5	2.2	5.21	0.835	0.03	0.98
962703	0.34	0.36	2.5	63	11	389	2.48	3.6	5.0	8.69	102	5.89	< 0.1	3.1	9.0	46.2	3.73	2.6	1.4	1.13	0.281	0.03	0.53
962704	0.25	0.27	2.5	141	21	342	4.84	6.0	6.0	10.5	195	9.93	< 0.1	4.7	7.7	32.2	2.86	0.7	1.9	4.86	0.253	0.02	1.20
962705	0.41	0.51	3.4	74	11	559	2.96	5.1	4.9	8.39	392	8.56	< 0.1	3.5	6.0	73.0	4.46	1.9	0.9	1.73	0.191	0.04	0.65
962706	0.27	0.37	0.7	66	8	6580	3.27	15.3	5.6	15.5	97.2	7.37	< 0.1	42.7	19.3	31.8	5.69	1.2	0.9	1.02	0.274	0.04	0.76
962707	0.21	0.54	7.8	74	3	1800	4.71	12.3	4.7	7.46	161	7.78	0.2	11.3	17.7	19.4	35.3	0.4	< 0.1	0.95	0.201	0.05	0.51
962708	0.06	0.97	6.6	83	2	1220	3.41	9.4	2.6	18.3	90.4	7.11	< 0.1	3.7	8.0	21.1	10.5	1.4	< 0.1	0.33	0.113	0.04	0.52
962709	0.13	0.50	4.2	91	5	2790	6.04	10.2	5.0	7.88	78.5	6.94	0.1	13.2	22.7	25.8	30.1	0.6	0.3	1.92	0.138	0.04	0.64
962710	0.44	0.45	0.8	58	3	2040	4.86	11.4	2.7	40.7	187	7.77	0.1	9.1	15.8	124	8.00	1.1	0.7	3.82	0.541	0.05	0.72
962711	0.77	0.22	0.5	46	7	866	3.74	5.4	5.3	45.0	196	6.44	0.1	5.1	12.2	54.3	5.53	1.2	1.4	4.18	0.418	0.05	0.94
962712	2.88	0.46	4.7	62	1	3340	4.91	21.9	4.0	115	586	< 0.02	< 0.1	6.6	8.8	47.5	12.1	1.0	< 0.1	3.69	0.509	0.06	0.62
962713	2.31	0.19	1.8	53	8	585	3.60	4.1	5.3	72.8	214	0.93	< 0.1	3.6	10.8	31.6	3.98	2.1	1.4	3.47	0.932	0.09	2.47
962714	1.17	0.69	7.2	79	1	3910	6.23	39.1	3.9	122	557	0.78	0.1	19.1	8.5	70.5	17.3	0.4	< 0.1	7.51	0.772	0.06	0.73
962715	0.08	0.30	2.7	46	< 1	964	3.45	9.0	2.2	12.1	92.4	< 0.02	< 0.1	4.1	12.7	10.5	5.67	1.5	< 0.1	0.44	0.113	0.03	0.46
962716	0.27	0.93	5.3	24	4	6840	3.42	15.1	7.5	41.2	147	3.73	0.1	3.7	10.1	27.6	27.2	6.2	0.4	0.86	0.496	0.05	0.45
962717	0.79	0.34	1.5	71	4	1410	4.67	9.2	4.5	38.7	298	< 0.02	< 0.1	7.3	10.0	46.3	4.62	0.7	0.1	2.50	0.468	0.11	0.57
962718	3.83	0.07	1.3	37	< 1	785	4.43	4.0	1.6	32.5	316	< 0.02	< 0.1	25.9	10.3	19.8	2.08	0.8	0.2	7.09	1.44	0.28	0.75
962719	0.74	0.39	1.3	60	4	1740	3.85	7.5	3.5	18.3	177	1.99	< 0.1	3.7	13.4	37.8	3.58	0.7	0.5	1.33	0.331	0.07	1.47
962720	0.75	0.22	1.7	63	5	776	4.02	5.1	3.5	21.7	167	6.54	< 0.1	4.6	10.9	28.2	3.14	0.4	0.7	1.26	0.433	0.06	1.46
962721	0.66	0.23	1.3	45	5	405	2.08	3.0	2.9	13.6	118	5.68	< 0.1	1.5	7.9	29.0	2.49	0.5	0.5	1.16	0.257	0.05	1.28
962722	0.76	0.30	1.7	50	6	708	2.80	5.6	6.0	24.1	318	2.13	< 0.1	2.8	13.4	34.8	3.93	0.5	0.3	1.32	0.834	0.05	1.07
962723	0.60	0.35	1.8	49	4	278	1.37	2.2	1.6	6.82	56.7	5.30	< 0.1	0.3	6.4	39.0	2.55	0.6	0.6	0.58	0.227	0.04	1.50
962724	1.45	0.16	1.8	72	4	817	5.44	3.2	2.8	31.0	104	5.16	< 0.1	5.7	9.4	33.6	2.40	0.6	0.4	2.63	0.801	0.09	0.90
962725	2.37	0.23	2.9	93	6	844	5.23	5.5	3.9	36.1	163	5.41	< 0.1	8.8	17.7	51.4	3.48	0.6	1.3	4.08	0.655	0.11	2.09
962726	2.29	0.12	1.7	47	5	445	5.24	2.6	4.4	40.0	121	7.25	< 0.1	0.5	10.9	39.6	3.16	1.6	1.4	3.64	1.15	0.08	0.63
962727	0.17	0.07	2.3	56	4	2760	3.10	10.3	3.7	10.2	62.6	5.04	0.1	0.6	11.6	10.1	7.81	2.7	0.2	0.78	0.041	0.04	0.49
962728	0.27	0.04	1.5	55	4	120	2.38	1.8	1.8	11.2	38.7	2.33	< 0.1	0.1	9.4	6.6	1.31	1.3	0.5	0.64	0.015	0.03	1.09
962729	0.35	0.05	1.7	70	4	283	3.67	4.3	2.9	17.0	64.2	1.97	< 0.1	0.9	8.8	6.3	2.09	0.7	0.1	0.97	< 0.002	0.02	0.63
962730	0.54	0.13	1.7	63	8	983	3.97	6.0	4.2	29.0	96.1	2.74	< 0.1	1.4	15.3	15.8	3.44	1.4	0.7	1.10	0.135	0.04	1.12
962731	1.11	0.20	1.4	58	10	1340	3.21	7.3	5.1	45.6	156	2.43	< 0.1	2.6	17.3	29.6	3.26	0.7	0.4	1.45	0.326	0.03	0.82

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS											
962732	0.58	0.18	1.8	73	9	1250	5.36	7.8	4.7	133	143	1.40	0.1	3.3	19.9	19.8	3.62	1.3	0.3	2.43	0.557	0.05	0.72
962733	0.51	0.14	2.0	68	4	1670	4.99	10.4	4.1	99.8	207	0.42	0.1	4.5	15.8	10.4	4.08	1.8	0.1	1.48	0.142	0.04	0.55
962734	0.38	0.19	2.1	89	33	1980	4.77	10.2	9.0	53.1	186	4.46	0.1	4.0	16.4	20.7	3.35	1.5	0.2	0.92	0.124	0.04	0.80
962735	0.52	0.13	1.2	66	39	1720	3.75	7.1	6.1	36.7	118	0.31	< 0.1	2.5	14.7	17.0	2.82	1.0	0.7	1.25	0.265	0.04	1.63
962736	2.59	1.00	12.7	162	119	5710	7.45	47.8	43.8	370	755	2.85	0.1	10.3	10.7	97.5	11.0	0.4	< 0.1	3.87	0.479	0.05	0.61
962737	1.13	0.64	16.0	158	244	5160	8.05	49.8	91.4	320	592	< 0.02	0.1	32.7	12.6	31.5	20.0	0.4	< 0.1	6.21	0.764	0.08	0.72
962738	1.12	1.31	9.9	156	158	4070	6.63	32.3	47.8	417	958	5.60	< 0.1	9.3	14.4	64.5	11.7	0.7	0.2	5.07	0.367	0.07	0.70
962739	2.03	1.85	12.7	157	491	4740	6.25	49.8	126	636	1260	4.72	0.1	7.4	2.7	163	8.21	1.6	0.1	1.61	0.691	0.05	0.53
962740	0.10	1.07	4.3	45	3	1480	3.01	9.2	4.0	26.2	98.1	< 0.02	< 0.1	0.4	12.3	39.7	42.8	1.2	0.1	0.37	0.100	0.04	0.48
962741	0.56	0.94	5.8	64	4	1910	3.91	11.4	6.4	127	232	2.93	0.1	4.3	12.5	62.6	13.5	0.5	0.3	1.50	0.275	0.04	0.81
962742	0.33	0.76	2.1	60	1	1500	3.36	8.0	3.0	29.2	239	3.91	< 0.1	2.4	9.6	62.1	6.39	0.2	0.1	0.95	0.092	0.03	0.51
962743	0.38	0.90	4.3	49	2	1240	2.78	8.5	4.4	42.7	245	4.48	< 0.1	2.5	5.0	77.2	7.47	1.0	0.2	1.16	0.069	0.04	0.71
962744	0.56	0.97	4.3	103	156	2590	4.22	22.8	52.3	91.2	408	5.29	< 0.1	3.0	12.6	94.9	6.42	0.4	0.2	4.72	0.073	0.04	0.63
962745	2.42	0.98	5.5	83	37	3180	4.34	23.0	16.9	324	1250	4.57	0.1	4.4	13.9	102	10.2	0.6	0.2	2.92	0.704	0.15	0.83
962746	0.76	0.72	3.3	102	119	2610	5.55	32.8	43.5	135	444	5.71	0.1	8.8	8.7	113	7.02	0.4	0.2	3.31	0.573	0.05	0.71
962747	0.63	0.70	5.3	99	64	2950	4.96	23.6	26.0	101	513	5.06	< 0.1	6.2	5.8	81.5	8.55	1.9	0.7	2.39	0.204	0.06	0.94
962748	0.79	1.68	13.9	157	280	5100	6.07	41.7	86.9	612	966	6.54	< 0.1	11.1	9.3	157	11.8	2.2	0.2	3.05	1.30	0.06	0.60
962749	1.22	1.19	14.0	154	260	6840	6.99	54.4	86.0	674	757	6.18	0.1	22.0	10.0	69.2	10.5	2.0	0.2	2.74	1.14	0.10	0.40
962750	2.39	0.56	3.4	60	17	1390	4.87	15.6	21.8	52.5	251	2.42	< 0.1	7.4	7.5	57.1	8.20	0.6	0.2	3.81	0.401	0.06	0.57
962751	0.61	0.14	7.6	55	2	371	8.14	3.6	2.4	76.6	129	7.52	0.1	11.0	18.6	115	6.79	2.4	0.2	16.4	1.67	0.07	0.53
962752	0.36	0.15	7.0	51	< 1	526	7.70	3.4	1.6	26.3	145	4.69	0.1	14.5	11.9	42.0	4.27	2.6	0.3	76.2	0.813	0.04	0.49
962753	0.09	0.08	6.6	46	< 1	481	9.87	4.0	1.8	22.2	98.9	5.93	0.1	22.0	15.1	69.9	5.24	3.9	0.3	7.24	0.578	0.04	0.47
962754	0.92	1.12	7.1	64	3	3670	5.02	14.4	5.3	90.1	1010	2.97	0.1	7.3	18.1	118	16.4	1.1	0.2	9.00	0.602	0.05	0.80
962755	0.46	0.51	1.3	48	5	1940	3.69	8.4	5.9	24.8	195	3.06	< 0.1	6.0	15.8	52.3	6.44	0.8	0.5	2.10	0.187	0.04	0.77
962756	0.42	0.98	3.6	62	9	1490	3.12	10.1	12.7	46.4	417	5.05	0.1	2.4	5.9	104	8.23	0.3	0.3	0.66	0.092	0.03	0.64
962757	0.53	0.36	1.1	47	4	1100	2.70	5.4	5.0	26.0	135	1.62	< 0.1	2.9	11.0	43.4	4.45	0.4	0.5	1.65	0.292	0.04	0.74
962758	0.67	0.60	1.4	54	6	1230	3.37	6.3	5.7	36.8	209	4.83	0.1	3.4	17.2	63.9	9.05	1.4	1.3	2.11	0.172	0.05	2.03
962759	0.56	0.44	1.3	59	4	1320	2.96	5.9	3.9	32.5	141	3.53	< 0.1	2.1	11.1	52.0	4.26	0.4	0.4	1.64	0.474	0.04	0.77
962760	0.85	0.73	1.8	55	< 1	1450	2.94	7.8	2.8	27.1	305	4.97	< 0.1	2.5	7.4	78.7	6.50	0.4	0.2	1.41	0.177	0.06	0.62
962761	0.43	0.73	2.8	58	2	1460	3.18	7.6	4.0	36.9	278	4.91	< 0.1	2.2	12.6	83.1	6.16	0.8	0.5	0.75	0.095	0.04	0.82
962762	0.42	1.00	5.4	62	2	2170	3.49	10.6	4.5	57.8	366	5.41	< 0.1	3.3	16.5	115	9.42	0.7	0.1	0.89	0.112	0.04	0.90
962763	0.55	1.07	6.5	62	< 1	2040	3.39	9.2	2.2	133	228	0.36	0.1	4.6	15.4	87.3	17.2	2.2	< 0.1	1.75	0.413	0.04	1.01
962764	1.06	1.07	7.4	62	< 1	3250	5.13	16.4	2.7	156	1440	2.83	< 0.1	19.6	14.5	98.8	21.3	3.6	< 0.1	8.84	1.42	0.05	0.55
962765	0.17	0.61	2.6	71	5	2050	4.02	8.9	6.1	41.3	99.8	< 0.02	0.1	1.4	23.8	23.2	77.0	2.4	0.2	1.72	0.313	0.04	0.66
962766	0.25	0.06	1.6	67	2	3220	4.13	9.7	3.0	18.8	88.5	0.09	< 0.1	2.0	14.7	6.6	3.86	2.5	0.3	1.56	0.539	0.03	0.74
962767	0.20	0.28	1.4	82	11	1660	4.51	11.7	8.8	74.0	115	1.27	< 0.1	4.8	12.3	15.8	4.91	0.8	< 0.1	2.30	0.313	0.04	0.67
962768	0.19	0.60	10.7	208	94	2140	6.64	31.8	35.5	75.0	179	13.2	< 0.1	4.8	14.8	58.8	4.02	0.7	0.5	0.81	0.074	0.06	1.00
962769	0.19	0.29	5.0	144	53	432	4.77	11.7	18.5	41.7	109	11.3	< 0.1	4.7	13.4	39.6	2.63	0.1	1.1	2.34	0.067	0.05	1.59
962770	0.20	0.40	7.0	182	131	1380	6.38	19.2	26.4	29.6	186	10.8	0.1	4.1	14.4	44.8	3.44	0.3	0.4	2.20	0.137	0.05	1.37
962771	0.34	0.15	4.3	139	51	1780	4.96	12.5	12.6	69.7	186	10.9	< 0.1	2.9	30.2	19.4	3.09	2.3	0.9	3.14	0.447	0.04	0.78
962772	0.24	0.24	1.2	44	10	262	1.47	3.1	4.4	9.37	53.8	9.01	< 0.1	0.9	10.1	37.2	2.60	0.2	0.1	0.82	0.019	0.02	0.91
962773	0.21	0.18	1.8	56	25	417	2.57	5.4	8.8	10.5	87.6	7.63	< 0.1	1.8	11.4	24.1	2.48	0.1	0.6	1.13	< 0.002	0.03	0.63

Results**Activation Laboratories Ltd.****Report: A17-07492**

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm													
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS																				
962774	0.23	0.22	1.6	52	13	425	2.20	4.5	6.4	7.84	85.0	9.03	0.1	1.5	16.0	31.0	2.52	0.4	0.8	1.39	0.062	0.02	1.10
962775	0.29	0.12	2.3	86	29	2490	4.49	9.4	6.0	12.0	125	10.5	< 0.1	2.7	21.8	19.9	2.26	1.5	1.2	1.23	0.045	0.03	0.71
962776	0.35	0.13	1.7	74	30	1540	4.36	6.3	4.4	11.9	151	11.4	0.1	2.4	27.4	28.7	2.57	0.9	1.6	1.52	0.084	0.03	0.84
962777	0.42	0.14	1.7	81	24	419	3.58	3.1	3.6	10.5	89.4	14.6	< 0.1	1.9	19.0	28.4	2.56	1.3	3.6	2.32	0.124	0.03	2.08
962778	0.36	0.28	1.5	134	186	1260	4.81	10.7	19.3	18.8	210	11.4	< 0.1	4.2	21.8	44.5	3.08	0.3	0.6	1.22	0.016	0.03	1.01
962779	0.25	0.35	1.8	92	15	1390	5.24	10.2	6.9	27.9	428	11.8	< 0.1	2.3	23.4	75.6	5.91	0.9	1.5	1.50	< 0.002	0.05	1.62
962780	0.37	0.33	2.8	69	87	1870	3.85	15.1	24.5	165	583	8.30	0.1	5.5	18.9	38.9	6.28	1.8	0.5	1.44	0.104	0.04	0.69
962781	0.21	0.18	2.9	53	11	632	3.51	5.5	5.1	12.8	199	7.43	< 0.1	3.6	21.7	26.5	2.98	0.2	0.3	0.82	0.014	0.02	0.48
962782	0.21	0.14	2.4	55	11	248	2.49	2.4	3.0	7.25	69.1	10.2	< 0.1	3.4	10.5	21.7	2.05	0.2	1.5	0.79	0.019	< 0.02	1.11
962783	0.22	0.19	1.4	63	11	419	3.03	3.6	4.0	8.74	128	9.64	< 0.1	2.3	19.0	26.3	1.93	0.4	0.9	2.18	0.030	0.02	1.02
962784	0.25	0.36	2.8	58	15	899	3.02	6.7	5.6	29.5	368	7.31	< 0.1	2.4	18.1	39.2	7.70	0.3	0.3	1.09	0.322	0.03	3.03
962785	0.22	0.49	2.2	56	7	619	2.77	5.3	4.5	11.7	186	4.74	< 0.1	1.9	9.7	32.2	3.75	< 0.1	0.3	1.28	0.261	0.02	0.63
962786	0.30	0.33	1.5	41	1	314	1.35	2.1	1.5	13.5	67.2	9.06	< 0.1	< 0.1	18.8	47.7	2.18	0.3	< 0.1	2.36	0.017	0.02	0.65
962787	0.49	0.69	1.8	38	3	1960	2.76	9.2	4.7	49.6	279	5.20	0.1	2.2	12.2	57.4	9.72	0.6	0.2	2.41	0.200	0.03	0.40
745924	0.07	0.91	5.8	61	29	434	3.07	8.0	26.4	48.7	40.9	5.12	< 0.1	3.6	4.5	44.5	8.06	9.7	0.1	3.98	0.020	0.03	2.44
745925	0.15	2.87	10.3	114	36	994	5.52	22.3	26.3	137	90.6	10.8	0.1	11.4	8.0	212	16.0	2.4	0.5	2.45	< 0.002	0.04	1.01

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
952450	0.96	0.18	0.76	131	8.7	18.7	0.55	1.9	6.79	1.2	0.9	0.3	1.1	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952451	0.83	0.26	0.61	374	17.8	32.9	1.18	4.0	15.3	3.0	0.5	0.9	3.3	0.4	2.5	0.5	1.2	0.2	1.0	0.1	< 0.1	< 0.05	< 0.1
952452	0.65	0.47	1.01	522	28.5	52.4	3.22	7.3	28.8	6.0	0.5	1.9	6.9	1.0	5.1	1.1	2.7	0.4	2.1	0.3	< 0.1	< 0.05	< 0.1
952453	0.50	0.12	0.94	403	18.1	49.3	0.26	4.4	17.1	3.5	0.4	1.0	3.9	0.5	2.9	0.6	1.6	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1
952454	0.73	0.25	1.09	228	18.6	69.1	0.32	4.9	20.2	4.5	0.4	1.4	5.1	0.7	4.0	0.8	2.0	0.3	1.6	0.2	< 0.1	< 0.05	< 0.1
952455	0.43	0.10	1.21	307	9.8	27.6	1.09	2.1	7.87	1.4	0.8	0.4	1.6	0.2	1.2	0.3	0.7	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952456	0.52	0.18	1.14	33.5	16.2	37.0	0.74	4.4	17.9	4.0	0.9	1.3	4.6	0.7	3.7	0.8	2.0	0.3	1.7	0.2	0.1	< 0.05	< 0.1
952457	0.48	0.63	0.68	83.5	21.4	57.2	6.14	5.0	18.6	3.6	1.5	0.9	3.6	0.5	2.8	0.6	1.4	0.2	1.1	0.2	< 0.1	< 0.05	< 0.1
952458	0.44	0.98	0.46	22.5	16.3	35.5	0.64	4.3	15.7	2.6	1.6	0.7	1.8	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952459	0.38	0.52	1.03	29.9	18.9	38.4	1.02	4.4	15.2	2.5	0.9	0.7	2.0	0.2	1.1	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952460	0.25	0.20	0.83	207	22.1	41.3	0.58	4.8	16.9	3.0	0.3	0.8	2.6	0.3	1.5	0.3	0.5	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952461	0.50	1.92	0.85	209	12.8	22.8	0.60	2.6	8.94	1.6	2.2	0.4	1.5	0.2	1.0	0.2	0.5	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952462	0.35	0.15	0.64	170	11.5	21.9	1.08	2.6	9.50	1.8	1.1	0.5	1.8	0.2	1.2	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952463	0.40	0.17	0.67	155	11.9	22.7	0.50	2.6	9.09	1.6	0.2	0.4	1.5	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952464	0.46	0.17	0.73	117	8.7	16.9	0.42	2.0	7.29	1.3	0.8	0.3	1.2	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952465	0.35	0.18	0.84	168	11.0	20.7	0.55	2.5	9.01	1.6	0.4	0.5	1.5	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952466	0.37	0.16	0.64	240	10.6	19.6	1.01	2.3	8.02	1.5	0.9	0.4	1.4	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952467	0.10	0.10	0.08	34.4	1.8	5.19	0.05	0.8	3.90	1.0	2.3	0.3	1.0	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952468	0.34	0.10	0.60	165	6.6	12.9	0.56	1.5	5.32	1.0	0.7	0.3	1.1	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952469	0.41	0.22	0.84	115	8.1	15.5	0.54	1.8	6.46	1.2	< 0.1	0.3	1.1	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952470	0.38	0.09	0.62	96.9	6.3	12.1	0.75	1.4	5.02	0.9	0.5	0.2	0.8	0.1	0.5	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2
952471	0.49	0.42	0.82	174	8.8	16.1	0.63	1.8	6.53	1.1	0.7	0.3	1.1	0.1	0.7	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1
952472	0.35	0.30	0.75	144	12.6	24.0	0.99	2.8	10.1	1.8	1.0	0.5	1.7	0.2	1.1	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
952473	0.33	0.62	0.60	195	12.3	24.5	0.63	3.0	10.6	1.6	0.7	0.4	1.3	0.1	0.7	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952474	0.35	0.21	0.87	176	10.5	20.9	0.42	2.4	8.55	1.4	1.2	0.3	1.2	0.1	0.7	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.2
952475	0.40	0.15	0.88	82.6	6.1	12.2	0.78	1.4	5.37	1.0	0.7	0.3	1.1	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
952476	0.41	0.25	1.54	113	7.6	15.0	1.15	1.7	6.35	1.2	1.2	0.3	1.2	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952477	0.33	0.21	1.12	107	7.5	14.4	1.70	1.7	6.03	1.1	1.1	0.3	1.1	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952478	0.54	0.21	2.16	186	6.8	13.4	3.99	1.6	5.70	1.0	0.9	0.2	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952479	0.38	0.33	1.83	266	7.0	13.9	33.1	1.6	5.52	1.0	1.3	0.3	0.9	0.1	0.6	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1
952480	0.57	0.31	3.47	435	7.8	15.1	35.8	1.7	6.37	1.2	0.4	0.4	1.3	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952481	0.40	0.29	1.80	393	7.9	15.6	3.85	1.7	6.42	1.2	0.9	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952482	0.34	0.10	0.40	115	5.1	10.00	1.35	1.2	4.22	0.8	0.6	0.2	0.7	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952483	0.35	0.16	0.74	159	5.5	10.7	4.06	1.3	4.74	0.9	0.5	0.3	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952484	0.71	0.31	2.70	369	7.4	15.6	5.29	1.8	6.75	1.3	0.7	0.4	1.4	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3
952485	0.36	0.13	0.95	145	6.0	11.6	1.95	1.3	4.63	0.8	0.8	0.2	0.8	< 0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952486	0.39	0.31	2.15	338	11.4	19.4	7.07	3.2	13.8	3.3	1.5	1.1	5.1	0.7	4.7	1.1	3.1	0.5	2.6	0.4	< 0.1	< 0.05	< 0.1
952487	0.36	0.11	0.54	119	5.9	11.1	2.03	1.3	4.64	0.8	0.5	0.2	0.7	< 0.1	0.5	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
952488	0.45	0.29	1.67	97.7	7.6	15.2	1.16	1.7	6.22	1.2	0.8	0.3	1.2	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952489	0.39	0.18	1.02	83.1	6.8	13.1	0.62	1.5	5.43	1.0	< 0.1	0.3	1.0	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952490	0.39	0.22	1.15	121	7.7	15.2	0.94	1.7	6.22	1.2	0.5	0.3	1.1	0.2	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
952491	0.45	1.55	1.04	384	16.7	24.3	0.69	2.4	7.90	1.4	3.0	0.3	1.4	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.5

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm																						
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																						
952492	0.40	0.11	0.67	76.0	5.2	9.80	0.87	1.2	4.10	0.7	0.2	0.2	0.7	< 0.1	0.5	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	
952493	0.35	0.18	1.04	144	7.4	14.2	0.59	1.6	6.01	1.2	0.7	0.3	1.2	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2	
952494	0.67	1.28	1.41	198	8.3	16.8	1.84	2.0	7.76	1.5	1.1	0.4	1.6	0.2	1.2	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.2	
952495	0.34	0.35	0.94	118	7.8	15.0	0.15	1.8	6.53	1.2	0.6	0.3	1.3	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1	
952496	0.36	0.66	1.77	149	9.2	17.7	0.52	2.1	7.72	1.5	0.4	0.5	1.6	0.2	1.3	0.3	0.7	0.1	0.6	< 0.1	0.1	< 0.05	0.3	
952497	0.52	2.79	1.51	134	8.8	16.9	0.17	2.0	7.41	1.4	0.6	0.4	1.4	0.2	1.1	0.2	0.5	< 0.1	0.5	< 0.1	0.2	< 0.05	0.2	
952498	0.45	0.38	1.53	113	7.5	14.5	1.31	1.6	6.06	1.1	0.7	0.3	1.0	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2	
952499	0.41	0.23	0.68	108	6.2	11.8	1.13	1.4	4.92	0.9	0.7	0.3	0.9	0.1	0.6	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1	
745922	0.58	0.11	0.40	130	6.0	13.1	0.14	1.9	7.87	1.7	0.6	0.5	2.3	0.3	1.8	0.4	0.9	0.1	0.8	0.1	0.3	< 0.05	0.2	
745923	0.45	0.13	2.20	208	17.4	38.8	0.19	5.4	22.3	4.8	0.5	1.4	5.5	0.8	4.0	0.8	2.0	0.3	1.4	0.2	0.3	< 0.05	< 0.1	
962700	0.41	0.25	0.65	113	7.2	13.7	1.70	1.5	5.52	1.0	0.7	0.3	1.1	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2	
962701	0.49	0.32	2.62	370	18.6	27.0	11.9	4.9	19.1	3.8	0.9	1.0	4.3	0.5	2.8	0.6	1.5	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1	
962702	0.38	0.17	0.90	102	6.8	13.0	1.22	1.5	5.41	1.0	0.8	0.3	1.0	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3	
962703	0.41	0.10	0.69	83.9	6.5	12.7	0.84	1.5	5.26	1.0	0.4	0.3	1.1	0.1	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.3	
962704	0.39	0.13	0.59	126	6.5	12.4	3.06	1.4	5.01	0.9	0.5	0.2	0.9	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	
962705	0.39	0.17	0.54	146	6.4	12.3	1.58	1.5	5.46	1.1	0.3	0.3	1.2	0.2	0.9	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	0.3	
962706	0.20	0.12	1.02	20.1	9.0	31.6	0.84	2.2	8.24	1.5	0.7	0.5	1.8	0.3	1.3	0.3	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	
962707	0.66	0.09	1.13	219	73.8	91.4	0.19	14.0	52.0	9.3	1.1	3.3	10.2	1.3	7.3	1.5	3.9	0.6	3.3	0.5	< 0.1	< 0.05	< 0.1	
962708	0.19	0.08	0.60	70.8	12.2	26.6	0.17	3.0	11.5	2.4	0.3	0.7	2.6	0.4	2.1	0.5	1.2	0.2	1.1	0.2	< 0.1	< 0.05	< 0.1	
962709	0.59	0.09	1.63	223	28.6	69.7	0.41	9.0	38.9	8.7	1.0	2.6	9.8	1.3	7.1	1.5	3.6	0.5	2.9	0.4	< 0.1	< 0.05	< 0.1	
962710	0.52	0.28	1.28	150	14.1	29.6	1.19	3.3	12.8	2.6	0.7	0.8	2.8	0.4	2.1	0.4	1.1	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1	
962711	0.38	0.33	1.00	174	13.3	27.6	0.96	3.2	11.9	2.0	1.0	0.6	2.2	0.3	1.6	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1	
962712	0.74	0.48	1.09	669	38.5	94.3	2.89	9.8	40.1	8.0	1.0	2.0	9.3	1.3	7.6	1.8	3.9	0.6	3.9	0.5	< 0.1	< 0.05	< 0.1	
962713	0.38	0.56	1.62	380	24.1	48.3	0.77	5.9	22.4	4.0	1.2	0.9	3.9	0.5	2.7	0.6	1.3	0.2	1.1	0.2	0.1	0.07	< 0.1	
962714	1.51	1.32	2.53	284	26.5	77.0	2.63	9.6	44.1	10.9	1.0	3.0	14.0	2.0	12.1	3.0	6.1	0.8	5.7	0.7	< 0.1	< 0.05	< 0.1	
962715	0.26	0.13	2.09	390	13.5	46.4	0.22	3.6	14.6	3.1	0.8	0.8	3.7	0.5	3.1	0.8	1.8	0.3	2.0	0.3	0.2	0.05	< 0.1	
962716	0.26	0.19	3.70	42.8	56.9	128	1.78	17.1	74.1	16.8	1.6	4.5	19.3	2.7	16.0	3.9	8.2	1.2	8.0	1.1	0.6	< 0.05	< 0.1	
962717	0.61	0.92	1.44	354	18.6	38.0	1.48	4.5	17.4	3.4	1.1	0.9	3.4	0.4	2.9	0.7	1.4	0.2	1.5	0.2	< 0.1	0.05	< 0.1	
962718	0.61	4.72	1.00	269	11.6	22.3	0.74	2.6	9.46	1.5	1.5	0.4	1.6	0.2	1.2	0.3	0.7	0.1	0.7	0.1	< 0.1	0.09	< 0.1	
962719	0.45	0.29	1.75	266	12.0	30.6	1.63	3.0	11.8	2.3	0.8	0.5	2.5	0.3	2.1	0.5	1.2	0.2	1.2	0.2	< 0.1	0.09	< 0.1	
962720	0.35	0.22	1.11	150	11.8	25.3	0.83	2.9	10.9	2.1	0.8	0.5	2.3	0.3	1.8	0.4	0.9	0.1	0.9	0.1	< 0.1	0.09	< 0.1	
962721	0.31	0.21	1.10	115	10.7	21.7	0.53	2.6	9.86	2.0	0.8	0.4	1.9	0.2	1.4	0.3	0.8	0.1	0.8	0.1	< 0.1	0.07	< 0.1	
962722	0.33	0.25	1.74	189	15.4	31.3	0.74	3.8	14.3	2.6	1.0	0.7	3.0	0.4	2.3	0.6	1.2	0.2	1.2	0.2	< 0.1	0.08	< 0.1	
962723	0.28	0.15	1.25	213	10.2	20.2	0.38	2.4	9.19	1.6	0.8	0.4	1.7	0.2	1.3	0.3	0.7	< 0.1	0.7	0.1	< 0.1	0.10	< 0.1	
962724	0.38	0.58	0.89	208	14.7	28.6	0.40	3.3	12.4	2.2	0.8	0.5	2.0	0.2	1.3	0.3	0.6	< 0.1	0.6	< 0.1	< 0.1	0.10	< 0.1	
962725	0.58	0.67	2.09	391	21.8	42.1	0.94	5.0	18.8	3.2	1.1	0.7	2.9	0.4	2.0	0.4	0.9	0.1	0.8	0.1	< 0.1	0.08	< 0.1	
962726	0.25	0.74	1.39	39.8	20.2	42.5	0.57	5.2	18.7	3.2	1.6	0.7	2.9	0.4	2.1	0.5	0.9	0.1	0.9	0.1	0.1	0.07	0.1	
962727	0.21	0.08	2.11	28.8	15.2	41.1	0.76	4.6	19.4	4.2	1.2	1.0	4.9	0.7	4.2	1.0	2.1	0.3	1.8	0.3	0.2	0.08	< 0.1	
962728	0.17	0.14	0.92	180	6.7	13.2	0.30	1.5	5.58	0.9	0.6	0.2	0.9	0.1	0.7	0.2	0.4	< 0.1	0.3	< 0.1	0.1	0.14	< 0.1	
962729	0.26	0.14	0.86	152	6.4	18.1	0.24	1.5	5.53	1.1	1.3	0.3	1.1	0.2	1.0	0.3	0.6	< 0.1	0.7	< 0.1	< 0.1	0.10	< 0.1	
962730	0.29	0.21	1.65	233	11.5	29.6	0.31	2.8	10.4	1.9	0.8	0.5	1.9	0.3	1.5	0.4	0.9	0.1	0.8	0.1	< 0.1	0.13	< 0.1	
962731	0.30	0.57	1.69	168	9.8	22.7	0.81	2.4	9.29	1.8	0.7	0.5	2.0	0.3	1.5	0.4	0.8	0.1	0.8	0.1	< 0.1	0.10	< 0.1	

Results

Activation Laboratories Ltd.

Report: A17-07492

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
962732	0.37	0.33	1.71	254	12.6	29.0	0.36	2.9	10.7	2.0	0.8	0.5	2.1	0.3	1.5	0.4	0.9	0.1	0.8	0.1	< 0.1	0.10	< 0.1
962733	0.73	0.14	2.68	198	12.4	35.6	0.70	3.3	12.5	2.3	0.9	0.5	2.3	0.3	2.0	0.5	1.1	0.2	1.1	0.2	0.1	0.08	< 0.1
962734	0.76	0.19	1.79	195	11.3	38.6	0.50	2.7	10.4	2.0	1.2	0.5	2.0	0.3	1.5	0.4	0.8	0.1	0.8	0.1	< 0.1	0.10	< 0.1
962735	0.38	0.23	1.35	290	10.5	24.0	0.57	2.5	9.77	1.8	0.9	0.4	1.8	0.2	1.3	0.3	0.7	0.1	0.6	0.1	< 0.1	0.15	< 0.1
962736	0.82	0.30	1.96	289	10.8	27.5	3.89	3.4	15.3	3.7	0.6	1.0	4.7	0.7	4.1	1.1	2.3	0.3	1.9	0.3	< 0.1	0.10	< 0.1
962737	0.90	0.42	2.95	417	31.5	70.8	3.35	8.7	37.0	7.9	1.1	2.3	9.2	1.3	7.4	1.8	3.8	0.5	3.2	0.4	< 0.1	< 0.05	< 0.1
962738	0.56	0.39	1.80	241	9.4	21.1	3.43	3.1	14.4	3.5	1.4	1.1	4.7	0.7	4.3	1.1	2.4	0.3	2.0	0.3	< 0.1	0.08	< 0.1
962739	1.34	0.55	0.74	194	9.1	20.6	8.77	2.7	11.9	2.9	0.9	0.8	3.6	0.5	3.1	0.8	1.7	0.2	1.5	0.2	< 0.1	0.09	0.4
962740	0.30	0.13	2.72	295	52.2	61.8	0.30	13.9	60.7	13.0	1.1	3.8	16.2	2.2	13.5	3.6	8.2	1.2	7.9	1.3	< 0.1	< 0.05	< 0.1
962741	0.69	0.31	2.70	214	19.4	37.0	0.67	5.4	22.8	4.9	1.1	1.2	5.4	0.7	4.2	1.1	2.2	0.3	2.3	0.3	< 0.1	0.07	< 0.1
962742	0.52	0.27	1.78	126	12.2	33.7	0.82	3.1	12.5	2.4	1.0	0.6	2.6	0.4	2.1	0.5	1.2	0.2	1.1	0.2	< 0.1	0.09	< 0.1
962743	0.47	0.38	0.64	61.9	12.9	29.4	1.06	3.4	13.5	2.7	1.1	0.6	2.9	0.4	2.5	0.6	1.3	0.2	1.3	0.2	< 0.1	0.09	0.2
962744	0.54	0.36	2.38	149	8.9	21.2	1.31	2.6	11.1	2.6	0.8	0.6	2.8	0.4	2.2	0.5	1.2	0.2	1.1	0.2	< 0.1	0.09	< 0.1
962745	0.61	0.63	2.63	191	14.2	35.0	8.89	4.0	16.7	3.6	1.3	0.8	3.9	0.5	3.3	0.8	1.7	0.3	1.6	0.2	< 0.1	0.09	0.1
962746	0.74	0.46	1.61	133	9.6	23.3	1.98	2.6	10.9	2.4	1.4	0.6	2.8	0.4	2.4	0.6	1.3	0.2	1.0	0.2	< 0.1	0.09	< 0.1
962747	0.62	0.50	0.86	158	13.0	33.4	2.45	3.6	14.1	3.1	1.7	0.7	3.2	0.5	2.9	0.7	1.5	0.2	1.3	0.2	< 0.1	0.15	< 0.1
962748	0.81	0.29	1.39	199	9.4	21.6	4.69	3.0	13.7	3.3	0.6	0.9	3.9	0.6	3.4	0.9	1.9	0.3	1.5	0.2	< 0.1	0.09	0.4
962749	0.64	0.29	2.58	182	7.7	18.2	4.07	2.5	11.5	2.8	1.3	0.9	3.7	0.5	3.1	0.8	1.7	0.2	1.5	0.2	0.1	0.10	0.3
962750	0.60	0.56	1.81	206	14.6	37.0	0.90	4.0	15.9	3.4	0.6	0.8	3.7	0.5	3.0	0.7	1.5	0.2	1.3	0.2	< 0.1	0.09	< 0.1
962751	1.11	1.58	3.86	29.7	42.5	94.6	0.27	12.2	45.4	6.7	1.3	1.4	4.8	0.6	2.9	0.6	1.4	0.2	1.3	0.2	< 0.1	0.07	< 0.1
962752	1.23	1.72	3.22	86.0	22.2	44.5	0.17	5.2	19.0	3.3	1.3	0.7	2.5	0.3	1.6	0.4	0.8	0.1	0.9	0.1	< 0.1	0.10	0.2
962753	1.11	3.08	3.15	34.1	29.5	63.9	0.15	7.7	28.2	4.3	1.4	0.9	3.1	0.4	1.9	0.5	1.0	0.2	1.0	0.2	< 0.1	0.09	0.1
962754	0.92	0.81	3.43	287	25.6	56.6	4.78	6.8	27.0	5.5	0.7	1.4	5.8	0.8	4.6	1.1	2.6	0.4	2.5	0.4	< 0.1	0.08	< 0.1
962755	0.70	0.37	1.65	200	12.0	27.5	0.86	3.1	12.0	2.2	0.5	0.5	2.4	0.3	2.0	0.5	1.1	0.2	1.0	0.1	< 0.1	0.12	< 0.1
962756	0.59	0.28	0.93	109	16.0	39.4	1.97	4.3	16.9	3.4	0.5	0.8	3.6	0.5	2.7	0.7	1.3	0.2	1.1	0.2	< 0.1	0.10	0.1
962757	0.39	0.42	1.36	225	10.3	19.1	0.79	2.4	9.23	1.8	1.2	0.4	1.9	0.3	1.5	0.4	0.8	0.1	0.7	< 0.1	< 0.1	0.12	0.1
962758	0.46	0.56	2.31	251	16.2	29.5	1.54	4.2	16.7	3.3	0.7	0.8	3.6	0.5	2.9	0.7	1.6	0.2	1.5	0.2	< 0.1	0.12	0.1
962759	0.39	0.38	1.54	176	9.7	20.3	0.65	2.3	9.11	1.8	0.6	0.4	1.9	0.2	1.5	0.4	0.8	0.1	0.7	0.1	< 0.1	0.12	< 0.1
962760	0.38	0.52	1.00	96.8	10.0	26.5	1.15	2.7	11.2	2.2	0.5	0.5	2.4	0.3	2.0	0.5	1.0	0.2	1.0	0.1	< 0.1	0.11	< 0.1
962761	0.42	0.30	1.97	131	9.6	24.4	1.20	2.4	9.40	1.8	0.7	0.5	1.9	0.3	1.7	0.4	0.9	0.1	0.8	0.1	< 0.1	0.12	0.1
962762	0.53	0.31	2.37	147	12.8	31.5	1.43	3.5	14.5	3.0	0.7	0.7	3.2	0.4	2.6	0.7	1.4	0.2	1.4	0.2	< 0.1	0.11	0.1
962763	0.68	0.26	2.53	329	17.4	36.4	1.57	4.8	20.6	4.4	0.3	1.2	4.7	0.7	4.2	1.1	2.3	0.3	2.1	0.3	< 0.1	0.10	0.2
962764	1.07	1.33	2.95	250	22.4	50.1	11.0	6.2	25.4	5.5	1.1	1.4	5.9	0.8	4.9	1.3	2.9	0.4	2.6	0.4	< 0.1	0.09	0.1
962765	0.34	0.14	2.65	505	54.7	59.3	0.31	18.4	81.9	17.0	1.3	5.6	19.5	2.6	15.2	3.9	8.8	1.2	7.6	1.2	< 0.1	< 0.05	< 0.1
962766	0.83	0.11	1.13	325	8.1	24.0	0.42	1.9	7.41	1.5	< 0.1	0.3	1.6	0.2	1.3	0.3	0.6	< 0.1	0.6	< 0.1	0.1	0.13	0.2
962767	0.73	0.09	1.91	232	9.2	29.9	0.58	2.3	8.98	1.8	0.7	0.4	1.8	0.3	1.5	0.4	0.8	0.1	0.7	< 0.1	< 0.1	0.13	0.2
962768	0.37	0.12	2.82	128	6.0	14.2	0.31	1.5	6.11	1.4	0.4	0.4	1.5	0.2	1.2	0.3	0.6	< 0.1	0.6	< 0.1	< 0.1	0.12	0.3
962769	0.49	0.15	1.04	160	6.4	13.6	0.19	1.6	5.94	1.0	0.6	0.2	1.1	0.2	0.8	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	0.13	0.2
962770	0.56	0.14	1.64	234	5.6	13.0	0.53	1.5	5.61	1.2	0.3	0.3	1.2	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	0.13	0.2
962771	0.35	0.11	1.95	158	4.3	9.16	0.82	1.1	4.34	0.9	0.5	0.3	1.0	0.1	0.9	0.2	0.5	< 0.1	0.3	< 0.1	< 0.1	0.16	0.3
962772	0.25	0.09	0.90	111	6.0	11.0	0.16	1.4	4.99	0.8	< 0.1	0.3	0.8	< 0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	0.13	0.2
962773	0.26	0.05	0.81	67.9	4.8	9.36	0.19	1.2	4.29	0.8	< 0.1	0.2	0.8	0.1	0.6	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	0.13	0.3

Results**Activation Laboratories Ltd.****Report: A17-07492**

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm																						
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																						
962774	0.22	0.07	0.98	64.3	5.5	10.3	0.21	1.3	4.66	0.8	< 0.1	0.2	0.8	< 0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	0.14	0.3
962775	0.32	0.11	1.06	68.7	3.8	10.3	0.24	0.9	3.44	0.7	< 0.1	0.2	0.7	< 0.1	0.6	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	0.14	0.4
962776	0.27	0.16	0.92	64.5	3.6	9.93	0.32	0.9	3.50	0.7	< 0.1	0.2	0.7	< 0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	0.14	0.3
962777	0.35	0.12	0.91	88.6	5.6	12.2	0.39	1.4	4.95	0.9	0.4	0.2	0.9	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	0.15	0.3
962778	0.26	0.15	0.91	109	4.5	9.60	1.03	1.1	4.34	0.8	0.4	0.3	0.9	0.1	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	0.13	0.2
962779	0.53	0.11	1.27	218	8.3	19.0	2.24	2.2	8.45	1.6	0.7	0.4	1.6	0.2	1.4	0.3	0.8	0.1	0.6	< 0.1	< 0.1	0.14	0.2
962780	0.32	0.14	1.31	72.5	6.2	17.2	0.88	1.8	6.85	1.4	< 0.1	0.4	1.6	0.2	1.5	0.3	0.9	0.1	0.7	0.1	< 0.1	0.13	0.3
962781	0.26	0.09	0.70	71.4	4.5	9.45	0.60	1.1	4.07	0.8	< 0.1	0.3	0.8	< 0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	0.13	0.3
962782	0.25	0.08	0.53	65.3	4.4	8.62	0.41	1.0	3.85	0.7	0.3	0.2	0.6	< 0.1	0.5	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	0.13	0.3
962783	0.32	0.11	0.64	120	4.0	8.59	0.60	0.9	3.46	0.6	0.5	0.2	0.6	< 0.1	0.5	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	0.13	0.3
962784	0.31	0.17	1.01	291	10.3	17.6	0.86	2.4	9.40	1.8	< 0.1	0.6	2.0	0.3	1.8	0.4	1.0	0.1	0.8	0.1	< 0.1	0.13	0.3
962785	0.28	0.13	0.65	229	6.8	13.4	0.30	1.6	5.89	1.1	0.1	0.3	1.2	0.1	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	0.13	0.3
962786	0.26	0.12	1.18	109	4.7	9.08	0.24	1.1	3.80	0.7	< 0.1	0.2	0.7	< 0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	0.13	0.2
962787	0.35	0.14	0.54	434	14.8	34.7	5.02	3.6	13.9	2.6	0.1	0.8	2.7	0.3	2.5	0.5	1.3	0.2	1.2	0.2	< 0.1	0.13	0.2
745924	0.50	0.08	0.33	130	6.0	12.6	0.17	1.9	8.13	1.8	0.5	0.5	2.1	0.3	1.8	0.4	1.1	0.1	0.8	0.1	0.3	0.13	0.4
745925	0.37	0.10	1.45	185	15.0	32.7	0.14	4.8	20.0	4.1	< 0.1	1.3	4.5	0.6	3.6	0.8	1.9	0.2	1.3	0.2	< 0.1	0.13	0.3

Results**Activation Laboratories Ltd.****Report: A17-07492**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952450	0.004	28.4	0.11	64.2	0.4	0.9	180
952451	0.008	10.6	0.08	77.8	0.5	2.0	40
952452	0.008	15.7	0.12	236	1.6	4.0	50
952453	0.008	11.0	0.12	24.6	0.9	1.4	30
952454	0.007	1.3	0.09	9.79	1.1	1.8	40
952455	0.009	16.6	0.13	128	0.4	0.8	20
952456	0.006	13.2	0.06	94.3	1.2	1.6	70
952457	0.005	13.1	0.13	471	0.6	2.1	60
952458	0.006	41.4	0.25	554	0.2	1.5	60
952459	0.008	20.5	0.22	391	0.2	1.1	90
952460	0.010	35.0	0.21	112	0.6	1.2	40
952461	0.007	15.9	0.15	96.5	0.5	1.5	80
952462	0.008	34.7	0.12	53.3	1.0	1.2	110
952463	0.009	14.8	0.13	41.7	0.7	1.1	90
952464	0.011	29.4	0.11	37.8	0.8	0.8	100
952465	0.010	21.2	0.17	41.9	2.0	0.8	30
952466	0.008	17.2	0.08	33.1	0.7	0.8	10
952467	0.004	6.7	< 0.02	2.13	0.4	0.8	30
952468	0.007	6.3	0.05	11.5	0.3	0.5	30
952469	0.006	16.9	0.07	25.4	0.6	0.6	70
952470	0.006	13.9	0.05	15.3	0.9	0.6	100
952471	0.008	13.4	0.13	69.6	0.8	0.6	100
952472	0.007	7.7	0.09	26.5	1.2	0.8	60
952473	0.006	3.2	0.14	74.8	0.7	0.8	110
952474	0.006	16.7	0.14	40.4	0.8	0.7	140
952475	0.012	23.4	0.12	13.5	1.1	0.8	100
952476	0.008	44.9	0.09	83.8	0.9	0.8	120
952477	0.008	18.7	0.08	44.0	1.2	0.8	110
952478	0.008	18.6	0.16	41.8	0.3	0.7	80
952479	0.012	18.0	0.13	38.7	0.2	0.6	80
952480	0.011	14.9	0.19	24.1	0.3	0.9	80
952481	0.006	21.0	0.12	34.7	1.7	0.8	130
952482	0.006	13.4	0.07	9.50	0.9	0.4	90
952483	0.008	18.6	0.07	16.0	1.1	0.4	70
952484	0.007	21.9	0.06	194	1.2	0.5	40
952485	0.006	10.3	0.05	12.8	1.3	0.4	40
952486	0.012	17.7	0.19	46.3	1.9	1.8	100
952487	0.010	17.2	0.08	16.7	1.1	0.5	80
952488	0.015	17.0	0.12	99.4	2.3	0.6	90
952489	0.011	27.4	0.10	30.4	2.1	0.6	90
952490	0.011	30.1	0.09	23.9	2.4	0.7	110
952491	0.007	213	0.11	44.8	2.8	1.1	210

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Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
952492	0.011	18.8	0.09	10.0	1.4	0.5	60
952493	0.012	23.8	0.10	20.4	2.3	0.8	150
952494	0.010	23.6	0.09	37.2	2.6	0.9	160
952495	0.012	22.3	0.12	24.8	1.9	0.7	40
952496	0.009	16.9	0.14	226	3.6	0.9	210
952497	0.009	28.2	0.16	64.7	3.7	0.9	160
952498	0.012	16.3	0.12	30.0	2.1	0.7	70
952499	0.009	26.1	0.09	22.2	1.5	0.5	160
745922	0.013	23.8	0.07	2.99	1.4	0.4	90
745923	0.015	12.5	0.09	9.87	2.1	0.8	80
962700	0.012	15.1	0.08	25.6	1.5	0.6	80
962701	0.011	20.3	0.19	84.2	3.5	3.4	60
962702	0.011	21.1	0.11	24.1	1.9	0.5	70
962703	0.010	7.1	0.09	18.1	1.8	0.6	90
962704	0.007	28.4	0.07	10.7	1.4	0.6	120
962705	0.014	13.5	0.06	25.4	1.5	0.6	80
962706	0.007	20.8	0.12	26.0	0.4	1.1	90
962707	0.009	8.4	0.11	14.0	3.5	2.4	50
962708	0.013	19.8	0.05	5.35	3.7	1.3	80
962709	0.007	18.3	0.10	22.3	1.0	3.3	70
962710	0.010	24.6	0.12	59.4	0.3	1.6	70
962711	0.006	24.4	0.16	63.2	0.2	1.2	130
962712	0.032	16.8	0.25	409	5.9	4.5	60
962713	0.028	25.2	0.44	226	1.3	2.9	110
962714	0.040	21.7	0.34	2190	2.6	3.0	30
962715	0.019	11.8	0.24	36.2	2.5	2.1	50
962716	0.018	25.9	0.18	190	5.0	4.6	80
962717	0.021	32.3	0.32	233	0.6	2.3	60
962718	0.020	77.1	0.29	236	0.7	2.4	150
962719	0.025	38.0	0.28	102	0.4	2.2	90
962720	0.032	24.1	0.23	58.3	0.5	1.8	110
962721	0.026	22.3	0.31	60.0	0.3	1.7	80
962722	0.025	24.0	0.35	79.4	0.5	2.1	120
962723	0.024	22.6	0.50	119	0.3	1.7	60
962724	0.025	40.2	0.29	147	0.5	1.8	100
962725	0.020	25.5	0.53	247	0.8	2.5	110
962726	0.016	23.5	0.31	212	0.7	2.2	170
962727	0.035	17.3	0.18	44.1	2.2	2.1	140
962728	0.029	24.2	0.26	34.3	0.9	1.6	70
962729	0.027	20.1	0.25	41.3	0.8	1.7	40
962730	0.018	7.9	0.30	118	0.8	1.8	150
962731	0.025	34.2	0.29	104	0.5	1.7	90

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
962732	0.020	431	0.36	120	0.9	1.8	120
962733	0.027	53.4	0.31	134	1.5	1.9	80
962734	0.016	29.2	0.26	90.6	0.7	2.0	70
962735	0.023	41.3	0.28	84.4	0.3	1.4	120
962736	0.023	39.6	0.25	239	1.1	1.0	80
962737	0.016	35.7	0.28	64.7	2.2	1.2	70
962738	0.022	30.9	0.30	94.3	0.6	0.8	60
962739	0.019	34.9	0.07	175	1.5	1.0	60
962740	0.020	27.8	0.19	23.3	1.8	1.8	90
962741	0.017	18.6	0.14	99.0	2.5	2.1	50
962742	0.014	20.8	0.12	98.0	0.4	1.6	70
962743	0.013	22.8	0.07	73.6	3.1	2.0	100
962744	0.020	27.6	0.17	203	0.6	1.5	130
962745	0.022	17.7	0.18	219	1.5	2.0	70
962746	0.027	28.6	0.16	126	0.4	1.4	130
962747	0.021	21.4	0.08	103	1.2	1.6	80
962748	0.015	38.5	0.16	413	1.8	0.7	70
962749	0.019	44.6	0.17	229	0.6	0.5	110
962750	0.023	38.1	0.16	169	0.6	1.2	70
962751	0.023	32.7	0.41	1600	5.9	2.4	60
962752	0.013	40.3	0.35	129	4.8	2.5	140
962753	0.025	32.2	0.26	57.2	6.3	2.6	70
962754	0.006	36.8	0.25	501	4.3	2.4	80
962755	0.017	19.3	0.22	121	0.4	1.3	190
962756	0.025	30.2	0.12	163	0.9	1.4	80
962757	0.016	41.4	0.25	57.0	0.2	1.7	90
962758	0.020	33.9	0.19	87.0	0.3	1.9	60
962759	0.020	29.8	0.24	79.6	0.2	1.4	70
962760	0.017	34.3	0.17	122	0.3	1.4	90
962761	0.015	27.9	0.16	71.8	0.5	1.4	110
962762	0.020	28.8	0.19	174	2.6	1.8	230
962763	0.006	28.7	0.17	290	3.6	1.9	80
962764	0.020	24.2	0.19	437	4.2	2.6	80
962765	0.021	23.9	0.17	84.0	1.0	7.1	100
962766	0.019	33.7	0.25	86.6	0.7	1.1	110
962767	0.029	38.7	0.24	34.0	0.3	1.0	70
962768	0.015	39.1	0.15	21.5	0.8	0.5	60
962769	0.023	31.6	0.16	15.4	0.5	0.6	100
962770	0.019	39.5	0.16	23.9	0.4	0.5	80
962771	0.014	17.4	0.21	28.0	0.5	0.4	90
962772	0.017	21.2	0.15	14.8	0.1	0.5	140
962773	0.015	22.5	0.12	16.0	0.2	0.5	30

Results**Activation Laboratories Ltd.****Report: A17-07492**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
962774	0.011	21.2	0.14	17.5	0.1	0.4	20
962775	0.016	17.9	0.19	32.1	0.8	0.5	40
962776	0.015	15.9	0.29	29.5	0.5	0.5	90
962777	0.010	14.2	0.27	21.7	0.4	0.5	40
962778	0.017	17.4	0.15	40.7	0.1	0.4	60
962779	0.007	16.4	0.14	23.5	0.2	0.7	50
962780	0.015	20.0	0.18	94.0	0.4	0.6	50
962781	0.010	19.4	0.15	24.8	1.4	0.5	90
962782	0.018	18.3	0.12	17.0	0.5	0.4	60
962783	0.012	25.4	0.16	22.8	0.2	0.4	70
962784	0.016	19.9	0.16	45.1	0.5	0.8	120
962785	0.013	28.9	0.11	27.7	0.5	0.8	80
962786	0.015	17.3	0.23	21.2	0.3	0.7	60
962787	0.014	49.4	0.11	131	0.5	1.7	80
745924	0.019	20.1	0.09	3.23	1.2	0.4	60
745925	0.018	24.7	0.08	8.63	1.7	0.7	110

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
GXR-1 Meas																							
GXR-1 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
MP-1b Meas	43.0		19900			770	1.0	637			3.00	8.0					< 0.1		< 0.001				20600
MP-1b Cert	47.0		23000.	00		954.00	2.47	527.00	00		3.07	8.19					0.024		0.03				20900
SDC-1 1F2 Assay (%) Meas			< 30	630	< 10				20	50	0.004					40		0.089			0.004		< 30
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038		25.0
SBC-1 1F2-assay Kamloops (%) Meas			< 30	770	< 10	< 20		< 3	20	120	0.003		30			170		0.128	< 0.001		0.009		< 30
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024		0.00828		35.0
DNC-1a 1F2-assay Kamloops (%) Meas				100					60	260	0.009					< 10		0.129			0.028		
DNC-1a 1F2-assay Kamloops (%) Cert				118					57.0	270	0.01					5.20		0.116			0.0247		
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	15.9	310	1320	< 10	< 20	0.2	< 3	10	100	0.006	5.4	40	< 10	1.9	40	0.6	0.117	< 0.001	< 0.1	0.002	0.05	100
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101
GXR-1 1F2-assay Kamloops (%) Meas	31.3	3.1	460	710	< 10	1230	0.9	4	< 10	30	0.120	25.1	10	< 10	< 0.1	< 10	0.2	0.104	0.001	< 0.1	0.005	0.08	840
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730
OREAS 14P 1F2-assay Kamloops (%) Meas									690		0.975	35.6									2.19		
OREAS 14P 1F2-assay Kamloops (%) Cert									750		0.997	37.2									2.10		
GBW 07238			< 30								0.010		20							1.17	1.31	0.002	< 30

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0					1.08	1.51		0.00178		18.7
GBW 07239 1F2-assay Kamloops (%) Meas			< 30			< 20			10		0.007		30					1.25	0.099		0.003		< 30
GBW 07239 1F2-assay Kamloops (%) Cert			1.0			1.0			13.5		0.00486		23.1					1.15	0.110		0.00209		26.1
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
952462 Orig	< 3.0	8.2	< 30	810	< 10	< 20	0.5	< 3	< 10	50	0.003	4.4	20	< 10	1.7	20	0.5	0.044	< 0.001	1.1	0.001	0.16	60
952462 Dup	< 3.0	8.2	< 30	820	< 10	< 20	0.5	< 3	< 10	60	0.003	4.4	20	< 10	1.7	20	0.4	0.042	< 0.001	1.1	0.001	0.17	60

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
952476 Orig	< 3.0	8.3	< 30	720	< 10	< 20	1.8	< 3	< 10	30	0.004	5.9	20	< 10	1.7	20	0.6	0.144	< 0.001	1.0	0.001	0.41	100
952476 Dup	< 3.0	8.7	< 30	730	< 10	< 20	1.9	< 3	< 10	20	0.004	6.0	20	< 10	1.8	20	0.6	0.148	< 0.001	1.0	0.001	0.39	110
952489 Orig																							
952489 Dup																							
745923 Orig	< 3.0	9.4	< 30	830	< 10	< 20	4.0	< 3	20	70	0.015	6.2	20	< 10	1.7	30	2.0	0.138	< 0.001	1.6	0.003	0.21	< 30
745923 Dup	< 3.0	9.4	< 30	830	< 10	< 20	4.0	< 3	20	70	0.016	6.2	30	< 10	1.7	30	2.0	0.135	< 0.001	1.6	0.004	0.20	< 30
962701 Orig																							
962701 Dup																							
962713 Orig	< 3.0	8.9	< 30	890	< 10	< 20	0.9	< 3	< 10	30	0.007	4.3	20	< 10	2.2	10	0.6	0.086	< 0.001	1.1	< 0.001	0.17	120
962713 Dup	< 3.0	9.1	< 30	890	< 10	< 20	0.9	< 3	< 10	30	0.007	4.2	20	< 10	2.1	10	0.6	0.084	< 0.001	1.1	< 0.001	0.20	100
962724 Orig																							
962724 Dup																							
962738 Orig	< 3.0	9.2	< 30	360	< 10	< 20	2.9	4	30	240	0.042	7.4	20	< 10	1.1	30	2.1	0.453	< 0.001	0.4	0.005	0.20	60
962738 Dup	< 3.0	9.4	< 30	380	< 10	< 20	3.1	4	30	250	0.042	7.8	20	< 10	1.1	30	2.2	0.470	< 0.001	0.5	0.005	0.21	70
962751 Orig																							
962751 Dup																							
962752 Orig	< 3.0	10.2	< 30	940	< 10	< 20	0.7	< 3	< 10	< 10	0.003	8.3	30	< 10	3.5	< 10	0.8	0.081	0.007	1.3	< 0.001	0.27	110
962752 Dup	< 3.0	10.0	40	950	< 10	< 20	0.6	< 3	< 10	10	0.003	8.2	20	< 10	3.4	< 10	0.8	0.079	0.008	1.3	< 0.001	0.27	100
962755 Orig											0.002												
962755 Dup											0.003												
962765 Orig																							
962765 Dup																							
962777 Orig	< 3.0	9.9	< 30	480	< 10	< 20	0.7	< 3	< 10	60	0.002	4.6	30	< 10	1.9	< 10	0.5	0.077	< 0.001	1.3	< 0.001	0.13	< 30
962777 Dup	< 3.0	9.8	< 30	470	< 10	< 20	0.6	< 3	< 10	50	0.001	4.5	30	< 10	1.9	< 10	0.5	0.077	< 0.001	1.2	< 0.001	0.13	< 30
962781 Orig																							
962781 Dup																							
Method Blank																							
Method Blank	< 3.0	< 0.1	< 30	< 70	< 10	< 20	< 0.1	< 3	< 10	< 10	< 0.001	< 0.1	< 10	< 10	< 0.1	< 10	< 0.1	< 0.001	< 0.1	< 0.001	< 0.1	< 0.01	< 30

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K		
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%		
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01		
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS										
GXR-1 Meas															0.007	< 1	0.036	4.1	0.7	7	0.051	0.12	0.30	0.02	
GXR-1 Cert															0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	
GXR-6 Meas															< 1	0.033	26.9	1.0	2	0.093	0.40	7.12	1.11		
GXR-6 Cert															0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87		
GXR-6 Meas															< 1	0.035	26.4	1.0	3	0.091	0.42	7.04	1.20		
GXR-6 Cert															0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87		
MP-1b Meas	36.0									620															
MP-1b Cert	13.79									1100.00															
SDC-1 1F2 Assay (%) Meas		< 50	< 40	170					40	< 50		0.011	< 50												
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180					102	0.80		0.0103	290												
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	180			< 50	< 100	220	< 50	40	0.020	150												
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134												
DNC-1a 1F2-assay Kamloops (%) Meas		< 50	< 40	140					140		20	0.007	< 50												
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144					148.0000		18.0	0.007	38.0												
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	40	< 20		< 50	< 100	180	< 50	10	0.013	130												
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110												
GXR-1 1F2-assay Kamloops (%) Meas	0.3	< 50	< 40	290	< 20		< 50	< 100	90	160	30	0.084	< 50												
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0												
OREAS 14P 1F2-assay Kamloops (%) Meas																									
OREAS 14P 1F2-assay Kamloops (%) Cert																									
GBW 07238										1320	10	0.008													

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS																		
1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655											
GBW 07239 1F2-assay Kamloops (%) Meas										800	40	0.013											
GBW 07239 1F2-assay Kamloops (%) Cert										1000.00	34.2	0.012											
OREAS 922 (AQUA REGIA) Meas															< 1	0.062	23.8	0.9		0.033	1.27	2.72	0.46
OREAS 922 (AQUA REGIA) Cert															0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376
OREAS 922 (AQUA REGIA) Meas															< 1	0.064	23.2	1.0		0.032	1.35	2.72	0.46
OREAS 922 (AQUA REGIA) Cert															0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376
OREAS 923 (AQUA REGIA) Meas															< 1	0.060	24.7	1.0			1.45	2.88	0.39
OREAS 923 (AQUA REGIA) Cert															0.684	0.061	23.4	0.61			1.43	2.80	0.322
OREAS 923 (AQUA REGIA) Meas															< 1	0.060	24.0	0.8			1.44	2.75	0.39
OREAS 923 (AQUA REGIA) Cert															0.684	0.061	23.4	0.61			1.43	2.80	0.322
SdAR-M2 (U.S.G.S.) Meas																	15.4	4.9					
SdAR-M2 (U.S.G.S.) Cert																	17.9	6.6					
SdAR-M2 (U.S.G.S.) Meas																	13.3	4.6					
SdAR-M2 (U.S.G.S.) Cert																	17.9	6.6					
952462 Orig	< 0.1	< 50	< 40	200	< 20	0.4	< 50	< 100	100	< 50	10	0.017	130	0.076	< 1	0.114	16.1	0.7	< 1	0.027	0.28	3.02	0.10
952462 Dup	< 0.1	< 50	< 40	190	< 20	0.4	< 50	< 100	100	< 50	10	0.017	130	0.072	< 1	0.104	15.0	0.5	< 1	0.026	0.26	2.90	0.09

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS											
952476 Orig	< 0.1	< 50	< 40	240	40	0.2	< 50	< 100	110	< 50	20	0.036	< 50	0.068	< 1	0.481	17.4	1.0	< 1	0.024	0.50	3.29	0.11
952476 Dup	< 0.1	< 50	< 40	240	< 20	0.1	< 50	< 100	110	< 50	20	0.037	< 50	0.071	< 1	0.507	17.6	0.9	< 1	0.026	0.50	3.44	0.11
952489 Orig														0.117	< 1	0.131	14.6	0.7	< 1	0.024	0.36	3.34	0.07
952489 Dup														0.117	< 1	0.133	14.9	0.6	< 1	0.026	0.37	3.42	0.07
745923 Orig	0.2	< 50	< 40	520	< 20	0.6	< 50	< 100	150	< 50	30	0.011	170										
745923 Dup	0.2	< 50	< 40	520	< 20	0.5	< 50	< 100	130	< 50	30	0.011	150										
962701 Orig														0.074	< 1	0.042	30.2	1.9	< 1	0.030	0.78	3.32	0.12
962701 Dup														0.093	< 1	0.041	29.8	1.9	< 1	0.028	0.75	3.29	0.12
962713 Orig	0.1	< 50	< 40	180	< 20	0.3	< 50	< 100	100	< 50	20	0.021	100										
962713 Dup	0.2	< 50	< 40	190	< 20	0.3	< 50	< 100	90	< 50	20	0.021	110										
962724 Orig														0.019	< 1	0.108	6.8	0.5	< 1	0.020	0.22	1.73	0.11
962724 Dup														0.018	< 1	0.109	6.8	0.6	< 1	0.019	0.21	1.74	0.11
962738 Orig	0.1	< 50	< 40	230	< 20	0.5	< 50	< 100	240	< 50	20	0.097	60	0.023	< 1	0.099	27.5	1.3	< 1	0.017	1.28	2.64	0.13
962738 Dup	0.1	< 50	< 40	260	< 20	0.5	< 50	< 100	250	< 50	20	0.099	60	0.026	< 1	0.102	29.1	1.2	< 1	0.018	1.32	2.75	0.14
962751 Orig														0.041	< 1	0.216	7.4	0.6	< 1	0.114	0.28	1.55	0.53
962751 Dup														0.043	< 1	0.209	7.0	0.8	< 1	0.117	0.28	1.57	0.53
962752 Orig	0.6	< 50	< 40	250	< 20	0.4	< 50	< 100	140	< 50	10	0.017	70										
962752 Dup	0.6	< 50	< 40	240	< 20	0.4	< 50	< 100	150	< 50	10	0.017	70										
962755 Orig																							
962755 Dup																							
962765 Orig														0.007	< 1	0.154	14.2	1.6	< 1	0.019	0.26	1.68	0.34
962765 Dup														0.009	< 1	0.159	14.9	1.6	< 1	0.019	0.26	1.78	0.37
962777 Orig	< 0.1	< 50	< 40	150	< 20	0.4	< 50	< 100	120	< 50	10	0.012	130										
962777 Dup	< 0.1	< 50	< 40	150	< 20	0.3	< 50	< 100	110	< 50	10	0.012	120										
962781 Orig														0.009	< 1	0.081	15.3	0.6	< 1	0.021	0.49	2.32	0.12
962781 Dup														0.010	< 1	0.088	15.9	0.6	< 1	0.021	0.50	2.43	0.12
Method Blank														< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.019	< 0.01	< 0.01	< 0.01
Method Blank	< 0.1	< 50	< 40	< 10	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	< 0.001	< 50										

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
GXR-1 Meas	1400	0.76	1.6	79	5	900	24.5	8.1	36.8	1150	793	4.76		425	2.5	228	28.3	11.4	< 0.1	18.4	28.9	0.66	24.0
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0
GXR-6 Meas	0.17	0.14	22.0	164	70	969	5.38	13.2	21.5	61.8	122	14.8		237	62.9	31.4	5.84	10.4	< 0.1	1.55	0.168	0.05	1.05
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
GXR-6 Meas	0.17	0.15	23.3	162	75	1040	5.38	13.8	22.0	63.3	120	14.7		216	62.7	32.8	6.10	10.2	< 0.1	1.80	0.319	0.06	1.02
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
MP-1b Meas																							
MP-1b Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239 1F2-assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas	10.6	0.37	4.0	31	40	756	5.05	19.0	34.4	2080	252	7.60	0.1	5.4	27.6	16.1	17.7	11.5	0.3	0.66	0.538	0.25	4.03
OREAS 922 (AQUA REGIA) Cert	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
OREAS 922 (AQUA REGIA) Meas	11.3	0.38	3.6	31	42	752	4.90	19.4	34.7	2100	255	7.50	0.1	5.9	27.0	15.6	18.5	10.4	0.4	0.71	0.579	0.25	3.95
OREAS 922 (AQUA REGIA) Cert	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
OREAS 923 (AQUA REGIA) Meas	19.6	0.38	3.9	30	40	862	5.67	23.1	32.5	4260	351	7.45		7.4	24.8	13.7	17.6	21.6		0.78	1.68	0.44	6.22
OREAS 923 (AQUA REGIA) Cert	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
OREAS 923 (AQUA REGIA) Meas	21.1	0.38	3.9	30	39	845	5.64	22.3	31.2	4060	335	7.63		7.5	23.6	13.6	17.1	21.9		0.79	1.56	0.43	6.16
OREAS 923 (AQUA REGIA) Cert	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
SdAR-M2 (U.S.G.S.) Meas	1.14		2.5	16	6			12.1	46.7	238	743	3.61			19.2	20.4	15.7	7.0	2.6	13.5			
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00	760	17.6			149	144	32.7	259	26.2	13.3			
SdAR-M2 (U.S.G.S.) Meas	1.03		1.8	15	7			12.4	42.9	225	758	3.11			17.2	19.5	14.7	6.5	2.4	12.2			
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00	760	17.6			149	144	32.7	259	26.2	13.3			
952462 Orig	0.43	0.13	2.4	57	12	248	3.85	4.1	6.9	23.0	135	9.81	< 0.1	3.8	12.2	68.5	4.40	1.4	5.9	5.66	0.785	0.05	1.26
952462 Dup	0.40	0.12	2.2	57	12	236	3.57	3.8	6.4	21.6	130	9.39	< 0.1	3.9	11.3	66.2	4.26	1.5	5.6	5.57	0.508	0.05	1.23
952476 Orig	0.70	0.47	2.8	73	11	831	5.00	8.0	6.1	36.8	320	11.4	0.1	13.2	16.7	65.8	4.42	1.3	3.7	3.36	0.706	0.08	1.39

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952476 Dup	0.68	0.46	2.8	74	12	859	5.14	8.1	6.1	36.2	322	11.7	0.1	14.0	16.8	63.8	4.40	0.8	4.1	3.60	1.06	0.07	1.72
952489 Orig	0.54	0.37	3.5	72	14	689	3.40	5.7	5.7	13.6	241	10.2	< 0.1	3.9	10.2	53.3	3.69	2.0	2.1	1.98	0.500	0.04	1.14
952489 Dup	0.58	0.40	3.6	75	14	706	3.51	5.9	5.7	13.7	246	10.4	< 0.1	3.5	10.6	55.3	3.81	2.0	1.8	2.09	0.441	0.04	1.19
745923 Orig																							
745923 Dup																							
962701 Orig	1.02	0.55	6.2	113	30	1870	4.59	15.6	20.0	340	2700	10.2	0.1	9.3	17.2	53.1	14.8	3.2	1.8	32.6	0.675	0.05	0.98
962701 Dup	1.03	0.54	5.7	119	30	1840	4.91	15.3	19.8	320	2650	9.95	< 0.1	8.9	17.2	54.5	14.3	2.3	2.4	32.6	0.800	0.06	1.00
962713 Orig																							
962713 Dup																							
962724 Orig	1.45	0.16	1.8	73	4	818	5.43	3.2	2.8	30.6	104	6.75	< 0.1	5.7	9.5	34.1	2.41	0.6	0.3	2.69	0.769	0.09	0.91
962724 Dup	1.45	0.16	1.8	72	4	815	5.44	3.3	2.7	31.4	105	3.57	0.1	5.6	9.3	33.0	2.39	0.6	0.4	2.57	0.833	0.09	0.90
962738 Orig	1.12	1.29	9.9	151	156	4020	6.58	32.0	47.3	408	927	5.38	0.1	9.2	13.6	62.5	11.3	0.8	0.1	4.86	0.368	0.07	0.66
962738 Dup	1.11	1.33	9.8	161	159	4120	6.68	32.6	48.2	426	988	5.82	< 0.1	9.4	15.1	66.6	12.2	0.7	0.2	5.28	0.366	0.07	0.73
962751 Orig	0.65	0.14	7.5	54	2	376	8.20	3.6	2.4	76.0	128	7.33	0.1	11.1	18.2	114	6.79	2.3	0.2	16.9	1.64	0.06	0.54
962751 Dup	0.57	0.14	7.6	57	2	366	8.09	3.6	2.4	77.2	131	7.71	0.1	11.0	19.0	116	6.79	2.5	0.1	16.0	1.71	0.07	0.52
962752 Orig																							
962752 Dup																							
962755 Orig																							
962755 Dup																							
962765 Orig	0.17	0.59	2.7	67	5	2010	3.79	8.5	7.1	40.6	98.3	< 0.02	0.1	1.3	22.9	22.6	76.1	2.9	0.2	1.57	0.314	0.04	0.62
962765 Dup	0.16	0.63	2.5	76	5	2100	4.25	9.4	5.1	42.0	101	< 0.02	0.1	1.6	24.7	23.8	78.0	1.9	0.2	1.87	0.313	0.04	0.71
962777 Orig																							
962777 Dup																							
962781 Orig	0.22	0.18	2.9	52	11	615	3.42	5.5	5.1	12.9	198	7.27	< 0.1	4.0	21.0	25.9	2.91	0.2	0.3	0.79	0.011	0.03	0.48
962781 Dup	0.21	0.19	3.0	53	11	648	3.60	5.5	5.2	12.8	201	7.59	< 0.1	3.2	22.4	27.2	3.04	0.3	0.4	0.85	0.018	0.02	0.48
Method Blank	< 0.02	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	0.03	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	0.02	< 0.002	< 0.02	< 0.05
Method Blank																							

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	78.8	12.3	2.27	271	4.8	9.32	2.41		6.35	2.1	16.3	0.5	3.4	0.6	4.2			0.3	1.8	0.2	0.2	0.13	132	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-6 Meas	1.76	0.15	3.04	1040	10.2	28.3	0.14		10.7	2.0	0.8	0.6	2.0	0.3	1.6				0.7	< 0.1	0.2	0.13	0.2	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
GXR-6 Meas	1.83	0.09	3.55	995	9.9	29.2	0.17		10.2	1.9	0.8	0.6	2.0	0.3	1.4				0.7	< 0.1	0.2	< 0.05	< 0.1	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
MP-1b Meas																								
MP-1b Cert																								
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
SBC-1 1F2-assay Kamloops (%) Meas																								
SBC-1 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-1 1F2-assay Kamloops (%) Meas																								
GXR-1 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm																						
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																						
Kamloops (%) Meas																								
GBW 07238 1F2-assay Kamloops (%) Cert																								
GBW 07239 1F2-assay Kamloops (%) Meas																								
GBW 07239 1F2-assay Kamloops (%) Cert																								
OREAS 922 (AQUA REGIA) Meas	0.66		1.88	91.4	34.5	66.5	0.29	8.3	30.1	5.1	2.6		4.8	0.7						< 0.1		1.3		
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62						0.61		1.12		
OREAS 922 (AQUA REGIA) Meas	0.67		1.79	87.8	33.4	67.0	0.27	8.0	28.4	5.1	3.2		5.4	0.7						< 0.1		1.1		
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62						0.61		1.12		
OREAS 923 (AQUA REGIA) Meas	0.67		1.53	79.1	31.9	63.5	0.41	7.7	27.4	4.7	4.8		4.7	0.6						0.3		1.9		
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						0.60		1.96		
OREAS 923 (AQUA REGIA) Meas	0.67		1.60	76.1	30.3	61.4	0.39	7.3	26.2	4.7	6.5		4.9	0.6						0.3		1.9		
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54						0.60		1.96		
SdAR-M2 (U.S.G.S.) Meas			0.71	121	37.5	80.5	4.88	9.7	34.4	5.6		0.6	4.8	0.6	3.7	0.8	1.9	0.3	1.6	0.2	0.2	0.13	1.2	
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8	
SdAR-M2 (U.S.G.S.) Meas			0.78	109	35.6	78.1	4.83	8.7	30.3	5.1		0.6	4.8	0.7	3.4	0.7	1.8	0.3	1.5	0.2	0.1	< 0.05	0.8	
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8	
952462 Orig	0.38	0.16	0.67	175	11.7	22.1	1.07	2.6	9.60	1.8	1.0	0.5	1.8	0.2	1.2	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	
952462 Dup	0.31	0.15	0.62	166	11.4	21.8	1.09	2.6	9.40	1.8	1.1	0.5	1.8	0.2	1.2	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	
952476 Orig	0.39	0.24	1.53	110	7.6	15.1	1.13	1.7	6.43	1.2	1.1	0.3	1.2	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
952476 Dup	0.42	0.26	1.55	116	7.5	15.0	1.17	1.7	6.26	1.2	1.2	0.3	1.2	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	
952489 Orig	0.41	0.16	1.01	81.8	6.6	12.9	0.56	1.5	5.32	1.0	< 0.1	0.3	1.0	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	
952489 Dup	0.37	0.20	1.03	84.4	6.9	13.3	0.68	1.5	5.54	1.0	0.6	0.3	1.0	0.2	0.8	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2	
745923 Orig																								
745923 Dup																								
962701 Orig	0.42	0.33	2.65	375	18.6	26.6	12.0	4.8	19.2	3.8	1.3	1.0	4.3	0.5	2.8	0.6	1.6	0.2	1.1	0.2	< 0.1	< 0.05	< 0.1	
962701 Dup	0.56	0.31	2.59	365	18.6	27.3	11.7	4.9	18.9	3.7	0.4	1.0	4.3	0.5	2.9	0.6	1.5	0.2	1.2	0.2	< 0.1	< 0.05	0.1	
962713 Orig																								
962713 Dup																								
962724 Orig	0.38	0.58	0.88	157	15.1	28.8	0.43	3.3	12.4	2.2	0.7	0.5	2.0	0.2	1.3	0.3	0.6	< 0.1	0.6	< 0.1	< 0.1	0.11	< 0.1	
962724 Dup	0.38	0.58	0.89	260	14.4	28.3	0.36	3.4	12.4	2.3	0.9	0.5	1.9	0.2	1.3	0.3	0.6	< 0.1	0.6	< 0.1	< 0.1	0.09	< 0.1	
962738 Orig	0.53	0.37	1.70	240	9.4	21.1	3.35	3.1	14.3	3.5	1.3	1.1	4.7	0.7	4.3	1.1	2.3	0.4	2.0	0.3	< 0.1	0.08	< 0.1	
962738 Dup	0.58	0.42	1.90	241	9.4	21.0	3.50	3.1	14.5	3.5	1.4	1.1	4.8	0.7	4.4	1.1	2.4	0.3	2.0	0.3	< 0.1	0.08	< 0.1	
962751 Orig	1.15	1.64	4.02	31.6	43.1	95.5	0.22	12.3	46.3	6.7	1.0	1.4	4.9	0.6	3.0	0.7	1.4	0.2	1.3	0.2	< 0.1	0.07	0.1	
962751 Dup	1.08	1.53	3.70	27.8	41.8	93.7	0.31	12.1	44.5	6.6	1.6	1.4	4.6	0.5	2.8	0.6	1.3	0.2	1.2	0.2	< 0.1	0.07	< 0.1	
962752 Orig																								
962752 Dup																								
962755 Orig																								
962755 Dup																								
962765 Orig	0.32	0.14	2.47	450	52.6	57.1	0.31	17.9	79.9	16.5	0.8	5.4	19.0	2.5	14.7	3.7	8.5	1.2	7.4	1.1	< 0.1	< 0.05	< 0.1	
962765 Dup	0.36	0.14	2.83	561	56.9	61.5	0.31	18.9	83.9	17.5	1.8	5.8	20.0	2.7	15.6	4.1	9.0	1.2	7.9	1.3	< 0.1	< 0.05	< 0.1	
962777 Orig																								
962777 Dup																								
962781 Orig	0.26	0.09	0.69	70.3	4.7	9.65	0.59	1.1	4.11	0.7	< 0.1	0.3	0.8	< 0.1	0.7	0.1	0.4	< 0.1	0.4	< 0.1	< 0.1	0.13	0.3	
962781 Dup	0.26	0.09	0.72	72.5	4.4	9.25	0.62	1.1	4.04	0.8	0.3	0.3	0.7	0.1	0.7	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	0.13	0.2	
Method Blank	< 0.02	< 0.02	< 0.02	4.1	< 0.5	< 0.01	0.01	< 0.1	< 0.02	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	
Method Blank																								

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
GXR-1 Meas		3250	0.34	612	1.9	27.7	3820
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-6 Meas		44.4	1.93	90.2	3.8	0.8	90
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas		42.2	1.84	95.2	4.1	0.8	70
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
MP-1b Meas							
MP-1b Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
OREAS 922 (AQUA REGIA) Meas			0.17	58.4	14.7	2.4	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 922 (AQUA REGIA) Meas			0.16	61.0	14.9	2.4	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 923 (AQUA REGIA) Meas			0.16	83.2	15.2	2.3	
OREAS 923 (AQUA REGIA) Cert			0.12	81	14.3	1.80	
OREAS 923 (AQUA REGIA) Meas			0.15	82.8	15.1	2.3	
OREAS 923 (AQUA REGIA) Cert			0.12	81	14.3	1.80	
SdAR-M2 (U.S.G.S.) Meas				725	10.7	1.6	1270
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas				732	10.5	1.6	1220
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
952462 Orig	0.007	49.5	0.12	53.9	0.9	1.2	130
952462 Dup	0.008	20.0	0.11	52.7	1.0	1.2	90
952476 Orig	0.007	56.6	0.09	83.2	0.9	0.9	130

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952476 Dup	0.008	33.1	0.09	84.3	0.9	0.8	110
952489 Orig	0.010	25.1	0.09	29.7	2.0	0.6	110
952489 Dup	0.012	29.6	0.11	31.1	2.2	0.6	70
745923 Orig							
745923 Dup							
962701 Orig	0.009	26.3	0.18	84.1	3.5	3.4	40
962701 Dup	0.013	14.2	0.21	84.2	3.4	3.4	80
962713 Orig							
962713 Dup							
962724 Orig	0.028	44.7	0.30	146	0.5	1.8	80
962724 Dup	0.023	35.7	0.28	148	0.5	1.8	120
962738 Orig	0.027	30.2	0.29	94.9	0.6	0.8	40
962738 Dup	0.016	31.6	0.31	93.6	0.5	0.8	70
962751 Orig	0.023	30.2	0.41	1620	6.0	2.5	60
962751 Dup	0.022	35.1	0.41	1570	5.8	2.4	70
962752 Orig							
962752 Dup							
962755 Orig							
962755 Dup							
962765 Orig	0.021	20.7	0.16	81.5	1.2	6.9	110
962765 Dup	0.020	27.1	0.18	86.5	0.8	7.3	90
962777 Orig							
962777 Dup							
962781 Orig	0.009	18.5	0.14	23.8	1.4	0.5	70
962781 Dup	0.012	20.3	0.15	25.8	1.4	0.5	110
Method Blank	0.005	< 0.5	< 0.02	0.03	< 0.1	< 0.1	< 10
Method Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-17
Invoice No.: A17-07494-ReAssay
Invoice Date: 12-Sep-17
Your Reference: JOY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

169 Soil samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-07494-ReAssay

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Notes:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
 9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4
 TELEPHONE +250 573-4484 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Kamloops@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Ti	S	P	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge
Unit Symbol	%	%	%	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm						
Lower Limit	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS															
745926	0.154	< 1	0.052	9.6	0.3	4	0.135	0.68	1.81	0.13	0.06	1.04	5.0	70	37	474	3.21	7.3	28.9	51.4	38.8	6.23	< 0.1
745927	0.274	< 1	0.148	21.8	0.7	< 1	0.275	1.83	3.93	0.29	0.15	3.50	11.8	140	46	1110	5.68	21.9	28.3	145	88.3	12.1	< 0.1
952300	0.065	< 1	0.112	11.5	0.9	< 1	0.030	0.79	2.76	0.12	1.30	0.39	4.1	128	11	1550	5.78	9.6	5.3	127	396	9.83	< 0.1
952301	0.025	< 1	0.139	8.4	0.9	< 1	0.027	0.48	3.28	0.10	0.52	0.32	0.2	78	8	1290	3.88	5.6	4.0	55.5	211	8.67	< 0.1
952302	0.104	< 1	0.191	9.4	1.7	< 1	0.036	0.76	3.71	0.30	1.80	0.44	5.0	102	3	2590	6.76	22.4	1.5	219	729	9.59	< 0.1
952303	0.057	< 1	0.222	8.6	0.7	< 1	0.035	0.61	3.42	0.37	2.69	0.33	1.8	100	4	1800	7.36	4.1	1.7	72.4	341	11.7	< 0.1
952304	0.084	< 1	0.115	7.5	0.3	< 1	0.060	0.51	2.30	0.44	2.44	0.23	2.1	69	4	897	6.53	1.8	1.8	30.6	137	7.70	< 0.1
952305	0.076	< 1	0.101	10.7	0.7	< 1	0.022	0.85	2.35	0.13	0.86	0.75	2.4	84	7	1820	4.24	12.0	2.7	54.0	336	8.45	< 0.1
952306	0.104	< 1	0.151	6.7	0.4	15	0.020	0.35	2.92	0.09	0.52	0.59	2.9	112	13	956	5.02	4.4	4.4	15.2	130	18.2	< 0.1
952307	0.188	< 1	0.147	15.2	0.9	< 1	0.018	1.32	2.60	0.29	1.05	0.73	8.5	89	5	2540	5.92	22.7	2.8	58.8	390	11.1	< 0.1
952308	0.140	< 1	0.149	12.8	1.3	< 1	0.019	0.89	2.48	0.26	0.74	1.09	6.8	83	3	2820	5.19	16.4	2.3	151	820	10.5	< 0.1
952309	0.133	< 1	0.197	10.1	0.7	< 1	0.024	0.85	2.20	0.25	0.95	0.79	7.8	83	4	1910	6.86	11.6	3.5	71.9	361	9.56	< 0.1
952310	0.073	< 1	0.171	6.6	1.3	< 1	0.023	0.54	1.90	0.42	2.59	0.81	6.5	59	5	4120	5.06	16.2	3.3	239	1290	4.56	< 0.1
952311	0.066	< 1	0.120	5.6	0.9	< 1	0.025	0.60	1.72	0.29	2.50	0.67	3.5	34	4	3670	5.35	21.4	2.6	270	1870	5.48	< 0.1
952312	0.059	< 1	0.180	13.1	1.1	< 1	0.041	0.73	2.85	0.29	1.11	0.43	4.2	68	12	2270	5.70	19.7	9.6	88.7	528	8.15	< 0.1
952313	0.007	< 1	0.150	6.3	0.5	< 1	0.027	0.24	2.69	0.13	0.40	0.20	< 0.1	59	10	1470	2.90	5.6	4.1	35.0	97.2	7.84	< 0.1
952314	0.078	< 1	0.131	13.4	0.9	< 1	0.024	0.82	3.36	0.22	0.93	0.71	4.3	87	9	2460	4.63	16.1	6.8	77.2	501	9.41	< 0.1
952315	0.005	< 1	0.127	10.6	0.9	< 1	0.021	0.65	2.25	0.36	0.11	0.30	0.6	65	4	2210	3.40	8.7	2.6	16.8	117	5.03	< 0.1
952316	0.016	< 1	0.122	12.4	0.8	< 1	0.020	0.65	2.28	0.28	0.37	0.66	0.2	69	6	2830	3.14	8.0	3.7	22.9	256	6.11	< 0.1
952317	0.041	< 1	0.127	10.0	0.7	< 1	0.037	0.63	3.22	0.17	0.91	0.36	1.0	65	10	1200	4.78	8.9	5.8	76.1	282	6.04	< 0.1
952318	0.034	< 1	0.113	11.9	0.7	< 1	0.023	0.60	2.39	0.13	0.58	0.43	0.7	70	10	1410	4.33	10.5	6.4	40.7	268	6.71	< 0.1
952319	0.007	< 1	0.155	13.9	1.0	< 1	0.026	0.78	3.36	0.31	0.45	0.46	0.7	56	9	1750	3.26	8.4	5.0	55.1	386	6.75	< 0.1
952320	0.023	< 1	0.141	11.8	1.0	< 1	0.023	0.65	2.98	0.32	0.47	0.41	2.1	64	10	2380	4.06	11.8	6.6	62.4	359	7.40	< 0.1
952321	0.019	< 1	0.096	10.3	0.7	32	0.022	0.53	2.23	0.22	0.24	0.25	0.3	60	8	1240	3.65	7.3	4.4	19.8	136	5.51	< 0.1
952322	0.013	< 1	0.117	9.2	0.9	< 1	0.024	0.61	1.78	0.33	0.36	0.52	2.6	38	5	1440	2.99	7.0	3.4	86.0	265	4.92	< 0.1
952323	0.021	< 1	0.144	8.4	0.9	< 1	0.021	0.54	1.76	0.34	0.29	0.68	4.0	56	5	2310	3.90	8.8	2.9	67.1	242	5.36	< 0.1
952324	0.003	< 1	0.140	6.9	0.9	< 1	0.018	0.34	1.62	0.22	0.56	0.37	0.1	52	7	1230	3.09	5.4	2.3	29.6	161	5.12	< 0.1
952325	0.011	< 1	0.169	13.7	0.5	< 1	0.023	0.44	2.29	0.15	0.32	0.29	0.2	71	7	1520	4.25	7.1	3.2	21.9	233	6.75	< 0.1
952326	0.024	< 1	0.084	8.0	0.3	< 1	0.020	0.48	3.02	0.14	0.35	0.27	1.3	93	7	1450	4.67	7.5	3.3	22.5	174	10.2	< 0.1
952327	0.018	< 1	0.132	11.4	0.5	< 1	0.021	0.59	2.69	0.20	0.27	0.37	2.5	70	6	2250	4.22	10.3	4.1	34.5	248	7.88	< 0.1
952328	0.023	< 1	0.067	5.1	0.3	< 1	0.025	0.30	2.59	0.13	0.36	0.18	0.4	90	8	817	4.15	5.6	2.9	14.0	95.9	11.9	< 0.1
952329	0.003	< 1	0.139	7.2	0.7	< 1	0.023	0.24	2.10	0.17	0.28	0.24	< 0.1	60	7	1700	3.00	4.8	2.9	16.4	152	8.25	< 0.1
952330	0.013	< 1	0.093	10.4	0.7	< 1	0.023	0.65	2.48	0.26	0.20	0.45	0.5	59	10	631	2.60	5.5	4.6	24.9	166	6.39	< 0.1
952331	0.006	< 1	0.313	3.6	0.5	< 1	0.021	0.16	2.51	0.25	0.24	0.20	< 0.1	72	10	> 10000	3.80	11.5	3.1	19.9	153	8.05	< 0.1
952332	0.010	< 1	0.100	10.7	0.3	< 1	0.022	0.42	2.81	0.16	0.22	0.17	< 0.1	72	12	1880	3.71	6.7	4.7	16.5	104	9.63	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd
Unit Symbol	ppm																						
Lower Limit	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Method Code	AR-MS																						
745926	4.0	6.3	63.6	10.1	9.9	0.4	4.33	0.063	0.02	2.49	0.72	0.02	0.46	171	6.9	13.4	0.16	1.9	8.25	1.7	0.1	0.4	1.9
745927	11.2	11.6	293	19.4	12.3	0.6	2.90	0.086	0.05	1.10	0.62	0.04	2.36	266	18.0	36.2	0.14	4.9	22.1	4.3	< 0.1	1.1	4.6
952300	8.5	10.5	97.1	11.6	0.8	0.7	6.44	0.884	0.08	0.76	0.73	0.97	1.13	219	19.3	35.4	1.92	3.9	15.7	2.7	0.8	0.7	2.7
952301	4.5	13.0	76.9	11.3	0.9	0.9	3.26	0.458	0.04	0.70	0.47	0.27	1.29	236	14.6	27.0	1.93	3.1	13.2	2.5	0.6	0.7	2.5
952302	11.3	20.2	157	15.6	1.7	0.7	8.07	1.08	0.08	0.81	0.70	0.69	1.81	342	24.1	47.0	3.88	5.2	22.6	4.1	1.4	1.1	4.0
952303	10.1	31.2	101	7.27	1.1	0.4	19.2	1.41	0.09	0.74	0.70	1.46	1.55	88.0	15.0	27.6	0.93	3.2	13.2	2.2	1.2	0.6	2.0
952304	5.3	24.6	77.3	3.68	1.4	1.0	11.2	2.16	0.09	0.74	0.51	1.50	1.36	76.3	10.6	17.1	0.32	1.7	6.41	1.0	2.6	0.3	0.9
952305	7.4	17.6	119	7.92	0.8	0.6	4.36	0.538	0.07	0.61	0.67	0.83	1.54	229	8.6	17.7	4.19	1.9	8.04	1.5	0.3	0.4	1.6
952306	4.4	21.3	90.8	5.25	0.8	3.9	2.22	0.718	0.04	2.65	0.60	0.19	1.80	119	9.8	17.4	0.68	2.0	7.98	1.3	0.2	0.3	1.2
952307	13.0	27.2	90.9	14.3	4.7	0.7	16.4	1.13	0.08	0.96	0.80	0.90	5.56	80.8	13.5	29.2	1.70	3.2	14.4	3.0	0.9	0.9	3.0
952308	20.2	24.6	143	19.9	2.9	0.9	9.36	1.20	0.05	0.56	0.92	1.07	3.18	142	20.2	41.1	5.17	4.8	21.2	4.3	0.4	1.2	4.4
952309	31.3	21.4	115	11.1	3.7	0.8	7.78	1.63	0.06	0.55	1.02	1.09	3.32	101	14.3	29.4	1.72	3.3	14.3	2.9	0.6	0.8	2.8
952310	9.7	23.0	73.1	29.4	2.7	0.4	1.80	1.96	0.04	0.42	0.83	0.17	2.50	530	26.5	44.8	12.6	6.0	27.6	5.5	< 0.1	1.7	5.7
952311	19.8	13.4	103	13.5	3.6	0.4	10.0	2.04	0.03	0.31	0.90	0.27	1.15	274	13.9	30.9	19.4	3.2	14.0	2.7	< 0.1	0.7	2.8
952312	9.1	22.3	84.1	14.3	2.0	1.4	4.98	0.684	0.05	0.95	0.66	0.55	1.83	282	19.4	41.3	2.07	4.5	19.6	3.7	0.5	0.9	3.7
952313	3.3	25.4	40.6	5.18	0.8	0.9	2.08	0.312	0.04	1.08	0.42	0.10	1.62	151	9.4	18.5	0.69	2.0	7.94	1.4	0.3	0.3	1.3
952314	8.8	24.4	124	11.1	0.8	0.7	2.79	0.776	0.06	0.64	0.69	0.31	1.81	209	14.8	32.5	2.08	3.2	13.9	2.5	< 0.1	0.8	2.5
952315	2.4	28.9	21.9	12.4	1.4	0.2	0.58	0.086	0.02	0.37	0.31	0.02	3.64	248	14.5	33.1	0.31	3.3	14.9	2.9	< 0.1	0.8	2.8
952316	16.3	24.3	69.9	15.2	0.5	0.1	0.92	0.120	0.02	0.43	0.57	0.09	2.63	460	15.6	29.9	0.98	3.5	15.3	3.1	< 0.1	0.9	3.1
952317	9.7	15.9	93.6	7.48	1.2	0.7	4.90	0.646	0.06	0.47	0.54	0.69	1.14	351	12.6	23.7	1.78	2.7	11.3	2.1	0.3	0.6	2.0
952318	7.6	12.0	72.1	9.79	0.7	0.5	2.11	0.198	0.03	0.46	0.52	0.22	1.29	228	12.5	27.4	1.91	2.7	11.5	2.2	< 0.1	0.6	2.2
952319	4.4	41.0	51.4	18.1	1.5	0.5	1.28	0.221	0.04	0.60	0.40	0.12	4.89	665	17.6	23.9	1.15	4.2	19.0	3.8	< 0.1	1.1	3.9
952320	7.3	28.3	58.4	12.2	0.8	0.3	1.75	0.398	0.04	0.50	0.73	0.17	3.69	259	15.3	34.5	1.03	3.7	15.9	3.4	< 0.1	0.9	3.1
952321	3.1	20.9	30.5	12.8	0.7	0.4	0.74	0.158	0.02	0.58	0.40	0.05	1.85	315	17.1	28.0	0.41	3.8	16.0	3.0	< 0.1	0.9	3.1
952322	6.5	21.3	35.4	27.3	0.9	0.3	1.57	0.652	0.03	0.40	0.55	0.11	3.03	475	25.8	40.0	1.21	6.4	29.4	5.6	< 0.1	1.7	5.7
952323	4.2	20.0	49.2	28.3	0.9	0.2	1.92	0.434	0.02	0.39	0.91	0.07	2.22	461	26.2	42.1	1.80	6.2	28.6	6.2	< 0.1	1.8	5.9
952324	5.1	22.8	32.3	12.0	1.0	0.2	1.43	0.918	0.03	0.46	0.55	0.08	2.53	299	15.9	23.2	0.86	3.4	14.3	2.8	< 0.1	0.9	2.7
952325	14.5	22.5	28.8	6.63	0.9	0.4	1.79	0.537	0.04	0.44	0.43	0.10	2.99	150	9.0	22.1	0.70	1.9	8.10	1.4	< 0.1	0.4	1.5
952326	11.5	25.3	39.4	4.81	0.8	0.4	1.69	0.629	0.04	0.58	0.55	0.12	1.57	140	7.4	14.8	0.45	1.5	6.07	1.1	< 0.1	0.3	1.0
952327	7.8	22.8	41.5	8.66	0.8	0.2	1.87	0.443	0.07	0.46	0.50	0.12	1.93	152	11.2	26.2	0.88	2.5	10.6	2.0	< 0.1	0.6	2.1
952328	6.3	22.6	30.3	4.21	0.8	1.3	1.79	0.740	0.04	0.97	0.41	0.08	1.68	162	7.1	15.9	0.41	1.5	5.71	1.0	< 0.1	0.3	1.0
952329	5.4	29.3	33.5	6.01	0.8	0.6	1.74	0.546	0.03	1.04	0.34	0.06	2.39	267	9.3	17.2	1.61	1.9	7.85	1.5	< 0.1	0.4	1.5
952330	1.0	24.3	51.9	9.73	0.4	0.2	0.85	0.195	0.03	0.50	0.42	0.03	2.80	180	12.6	23.3	0.60	2.7	11.8	2.1	< 0.1	0.7	2.3
952331	4.1	45.4	35.3	4.06	0.8	0.1	1.48	0.646	0.03	0.60	0.41	0.07	2.75	821	6.4	18.8	2.57	1.3	5.42	1.0	< 0.1	0.3	1.0
952332	3.1	27.4	30.6	3.51	0.9	0.6	1.57	0.522	0.04	1.07	0.34	0.04	2.15	148	6.6	13.8	0.25	1.3	5.37	0.9	0.2	0.3	0.9

Results**Activation Laboratories Ltd.****Report: A17-07494**

Analyte Symbol	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb								
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
745926	0.3	1.8	0.3	0.9	0.1	0.8	0.1	0.3	< 0.05	0.3	< 0.001	< 0.5	0.06	3.43	1.3	0.4	20
745927	0.6	3.7	0.7	1.8	0.2	1.4	0.2	0.3	< 0.05	0.2	0.005	< 0.5	0.08	10.6	1.9	0.7	10
952300	0.4	2.3	0.4	1.2	0.2	1.2	0.2	< 0.1	< 0.05	0.1	0.001	6.8	0.07	72.9	0.7	2.0	20
952301	0.4	2.4	0.4	1.2	0.2	1.0	0.1	< 0.1	< 0.05	0.1	< 0.001	0.9	0.08	50.4	0.1	1.6	40
952302	0.5	3.3	0.6	1.6	0.2	1.4	0.2	< 0.1	< 0.05	0.2	< 0.001	4.1	0.13	28.6	1.5	1.5	50
952303	0.3	1.6	0.3	0.7	0.1	0.6	0.1	< 0.1	< 0.05	0.2	< 0.001	4.4	0.23	77.7	0.3	1.0	30
952304	0.1	0.7	0.1	0.3	< 0.1	0.3	0.1	< 0.1	< 0.05	0.4	< 0.001	15.2	0.21	107	1.5	0.7	40
952305	0.2	1.4	0.3	0.8	0.1	0.7	0.1	< 0.1	< 0.05	0.2	< 0.001	2.8	0.08	76.9	0.2	1.2	20
952306	0.2	1.0	0.2	0.5	0.1	0.4	0.1	< 0.1	< 0.05	0.2	< 0.001	< 0.5	0.24	55.6	0.5	0.9	40
952307	0.4	2.8	0.5	1.4	0.2	1.3	0.2	0.1	< 0.05	0.4	< 0.001	15.7	0.21	237	3.2	1.9	20
952308	0.6	3.9	0.7	1.9	0.2	1.7	0.2	< 0.1	< 0.05	0.4	< 0.001	16.4	0.16	454	2.6	1.7	40
952309	0.4	2.3	0.4	1.1	0.2	1.0	0.1	< 0.1	< 0.05	0.3	< 0.001	10.9	0.15	301	2.6	1.5	40
952310	0.8	5.1	1.0	2.7	0.4	2.5	0.4	0.1	< 0.05	0.3	< 0.001	14.3	0.15	1100	4.8	2.1	20
952311	0.4	2.5	0.5	1.3	0.2	1.3	0.2	0.1	< 0.05	0.3	< 0.001	19.9	0.10	1180	3.7	1.8	20
952312	0.5	3.0	0.6	1.5	0.2	1.3	0.2	< 0.1	< 0.05	0.2	< 0.001	4.5	0.16	118	1.4	1.5	30
952313	0.2	1.1	0.2	0.5	0.1	0.4	0.1	< 0.1	< 0.05	0.1	< 0.001	4.9	0.13	61.2	< 0.1	1.0	60
952314	0.3	2.3	0.4	1.1	0.2	1.1	0.1	< 0.1	< 0.05	0.3	< 0.001	71.7	0.15	117	1.1	1.5	30
952315	0.3	2.3	0.5	1.2	0.2	1.2	0.2	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.14	15.9	0.2	0.9	20
952316	0.4	2.8	0.5	1.4	0.2	1.4	0.2	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.11	41.2	0.1	0.8	20
952317	0.2	1.6	0.3	0.8	0.1	0.6	0.1	< 0.1	< 0.05	0.2	< 0.001	32.0	0.14	182	0.2	1.2	50
952318	0.3	1.9	0.4	1.0	0.1	0.9	0.1	< 0.1	< 0.05	0.1	< 0.001	44.3	0.09	78.2	0.2	1.1	30
952319	0.5	3.2	0.6	1.6	0.2	1.4	0.2	< 0.1	< 0.05	0.1	< 0.001	2.9	0.19	74.3	0.2	1.2	20
952320	0.4	2.7	0.5	1.3	0.2	1.1	0.1	< 0.1	< 0.05	0.2	< 0.001	4.9	0.23	118	0.4	1.2	30
952321	0.4	2.6	0.5	1.2	0.2	1.0	0.1	< 0.1	< 0.05	0.1	< 0.001	3.7	0.14	41.8	0.1	1.1	30
952322	0.8	4.9	0.9	2.3	0.3	1.9	0.3	< 0.1	< 0.05	0.1	< 0.001	27.5	0.13	232	1.5	1.5	30
952323	0.8	5.1	0.9	2.5	0.3	2.1	0.3	< 0.1	< 0.05	0.1	< 0.001	11.0	0.13	152	2.5	2.0	20
952324	0.3	2.3	0.4	1.1	0.2	1.0	0.1	< 0.1	< 0.05	0.1	< 0.001	1060	0.14	117	0.2	1.7	30
952325	0.2	1.3	0.2	0.7	0.1	0.6	0.1	< 0.1	< 0.05	0.1	< 0.001	8.0	0.11	119	0.2	1.0	40
952326	0.1	1.0	0.2	0.5	0.1	0.5	0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.19	69.7	0.1	0.7	30
952327	0.3	1.8	0.3	0.9	0.1	0.8	0.1	< 0.1	< 0.05	0.1	< 0.001	2.3	0.16	89.9	0.4	0.8	20
952328	0.1	0.8	0.2	0.4	0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.18	40.8	0.1	0.7	30
952329	0.2	1.3	0.2	0.6	0.1	0.6	0.1	< 0.1	< 0.05	0.1	0.001	5.3	0.16	49.2	0.1	1.0	50
952330	0.3	1.9	0.4	0.9	0.1	0.8	0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.13	29.8	0.1	1.0	20
952331	0.1	0.8	0.2	0.4	0.1	0.4	0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.37	203	0.1	0.8	70
952332	0.1	0.8	0.1	0.4	0.1	0.3	< 0.1	< 0.1	< 0.05	0.1	< 0.001	3.5	0.20	49.2	0.1	0.7	50

Analyte Symbol	Ti	S	P	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge
Unit Symbol	%	%	%	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.005	< 1	0.044	4.7	0.7	9	0.051	0.14	0.38	0.03	1390	0.86	0.3	80	8	840	25.0	8.2	41.0	1210	763	4.10	
GXR-1 Cert	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8	
GXR-1 Meas	0.005	< 1	0.050	5.2	0.8	9	0.055	0.15	0.40	0.04	1580	0.93	0.5	91	9	922	26.7	9.2	44.8	1270	836	3.44	
GXR-1 Cert	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8	
GXR-1 Meas	0.005	< 1	0.045	5.0	0.8	9	0.054	0.14	0.39	0.03	1530	0.84	0.4	87	7	880	25.8	8.1	41.0	1160	769	4.23	
GXR-1 Cert	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8	
GXR-1 Meas	0.004	< 1	0.038	4.1	0.7	5	0.041	0.11	0.33	0.03	1580	0.75	0.3	79	7	799	23.6	7.4	37.7	1140	750	5.27	
GXR-1 Cert	0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8	
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	0.142	2	0.144	10.4	1.6	2	0.170	1.83	3.27	2.17	21.0	0.98	7.3	96	66	162	3.37	16.2	46.6	7030	66.4	13.3	
GXR-4 Cert	0.29	1.77	0.120	11.1	1.90	4.50	0.564	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0	
GXR-4 Meas	0.127	1	0.119	8.6	1.5	< 1	0.122	1.57	2.76	1.74	19.5	0.85	6.5	85	56	141	3.10	13.9	39.3	6550	69.9	12.7	
GXR-4 Cert	0.29	1.77	0.120	11.1	1.90	4.50	0.564	1.66	7.20	4.01	19.0	1.01	7.70	87.0	64.0	155	3.09	14.6	42.0	6520	73.0	20.0	
GXR-6 Meas		< 1	0.035	26.3	1.0	3	0.080	0.43	> 8.00	1.29	0.18	0.14	26.0	187	84	1090	6.02	14.0	25.0	71.5	116	17.2	
GXR-6 Cert	0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		
GXR-6 Meas		< 1	0.036	27.6	1.0	3	0.083	0.43	> 8.00	1.32	0.18	0.14	24.4	191	87	1120	5.83	14.1	24.4	69.5	114	15.6	
GXR-6 Cert	0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		
GXR-6 Meas		< 1	0.036	26.7	0.9	2	0.082	0.44	> 8.00	1.39	0.18	0.14	26.7	199	87	1140	6.10	14.3	25.5	71.7	118	15.9	
GXR-6 Cert	0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		
GXR-6 Meas		< 1	0.035	24.8	0.9	< 1	0.067	0.39	7.49	1.38	0.17	0.13	23.5	197	80	1080	5.97	14.2	24.8	71.2	119	16.3	
GXR-6 Cert	0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		
OREAS 45d (Aqua Regia) Meas		< 1	0.033	16.7			0.046	0.18	6.76	0.14	0.29	0.10	45.6	198	484	430	14.9	30.8	229	418	26.5	19.4	
OREAS 45d (Aqua Regia) Cert		0.045	0.035	11.9			0.031	0.144	4.860	0.097	0.30	0.089	41.50	201.0	467	400.000	13.650	26.2	176.0	345.0	30.6	17.9	
OREAS 45d (Aqua Regia) Meas		< 1	0.034	17.0			0.047	0.18	6.33	0.14	0.28	0.09	42.7	197	476	420	13.8	29.1	219	359	24.2	18.9	
OREAS 45d (Aqua Regia) Cert		0.045	0.035	11.9			0.031	0.144	4.860	0.097	0.30	0.089	41.50	201.0	467	400.000	13.650	26.2	176.0	345.0	30.6	17.9	
OREAS 45d (Aqua Regia) Meas		< 1	0.033	17.5			0.048	0.18	6.73	0.14	0.30	0.10	46.0	210	481	424	14.1	27.5	211	355	27.1	19.8	
OREAS 45d (Aqua Regia) Cert		0.045	0.035	11.9			0.031	0.144	4.860	0.097	0.30	0.089	41.50	201.0	467	400.000	13.650	26.2	176.0	345.0	30.6	17.9	
OREAS 45d		< 1	0.032	15.5			0.038	0.16	6.10	0.14	0.28	0.10	43.7	203	451	405	13.7	26.2	199	342	27.9	19.7	

Analyte Symbol	Ti	S	P	Li	Be	B	Na	Mg	Al	K	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge
Unit Symbol	%	%	%	ppm	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	0.02	0.01	0.1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(Aqua Regia) Meas																							
OREAS 45d (Aqua Regia) Cert		0.045	0.035	11.9			0.031	0.144	4.860	0.097	0.30	0.089	41.50	201.0	467	400.000	13.650	26.2	176.0	345.0	30.6	17.9	
SdAR-M2 (U.S.G.S.) Meas				13.6	5.0					1.07			1.6	19	9			13.3	50.5	264	802	3.83	
SdAR-M2 (U.S.G.S.) Cert				17.9	6.6					1.05			4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6	
SdAR-M2 (U.S.G.S.) Meas				13.8	5.2					1.16			1.7	21	10			13.7	51.7	263	823	3.71	
SdAR-M2 (U.S.G.S.) Cert				17.9	6.6					1.05			4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6	
SdAR-M2 (U.S.G.S.) Meas				14.4	5.6					1.17			2.1	20	11			13.2	52.4	266	809	4.03	
SdAR-M2 (U.S.G.S.) Cert				17.9	6.6					1.05			4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6	
SdAR-M2 (U.S.G.S.) Meas				12.9	5.1					1.08			1.8	18	9			12.1	48.5	248	752	4.02	
SdAR-M2 (U.S.G.S.) Cert				17.9	6.6					1.05			4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6	
745927 Orig	0.275	< 1	0.149	22.1	0.7	< 1	0.276	1.83	3.96	0.30	0.15	3.58	11.5	141	46	1130	5.75	22.0	28.1	145	88.8	12.2	< 0.1
745927 Dup	0.274	< 1	0.147	21.5	0.7	< 1	0.273	1.82	3.91	0.28	0.14	3.42	12.0	138	46	1090	5.61	21.7	28.6	146	87.7	12.1	< 0.1
952328 Orig	0.023	< 1	0.065	5.0	0.3	< 1	0.024	0.29	2.40	0.13	0.36	0.18	0.4	89	8	808	4.13	5.5	2.9	14.3	94.4	12.0	< 0.1
952328 Dup	0.023	< 1	0.068	5.1	0.2	< 1	0.026	0.30	2.78	0.14	0.36	0.18	0.5	90	9	825	4.17	5.6	2.9	13.6	97.5	11.8	< 0.1
952329 Orig	0.003	< 1	0.136	7.2	0.7	< 1	0.021	0.23	2.06	0.17	0.28	0.24	< 0.1	60	7	1700	2.93	4.7	3.0	16.6	151	8.28	< 0.1
952329 Dup	0.004	< 1	0.141	7.2	0.7	< 1	0.024	0.25	2.14	0.17	0.27	0.24	< 0.1	60	7	1700	3.07	4.9	2.9	16.2	153	8.23	< 0.1
Method Blank	< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.013	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 1	< 1	< 0.01	< 0.1	< 0.1	0.04	< 0.1	0.28	0.1
Method Blank	< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.014	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 1	1	< 0.01	< 0.1	< 0.1	0.32	< 0.1	0.26	0.1
Method Blank	< 0.001	< 1	0.001	< 0.1	< 0.1	< 1	0.015	< 0.01	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	1	< 1	1	< 0.01	< 0.1	< 0.1	< 0.01	< 0.1	0.24	< 0.1

Analyte Symbol	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm											
Lower Limit	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS											
GXR-1 Meas	389	2.4	244	28.1	11.7	0.2	17.4	32.1	0.72	24.3	90.9	14.1	2.75	632	5.6	10.5	2.78		6.72	2.1	14.7	0.5	3.6
GXR-1 Cert	427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20
GXR-1 Meas	412	2.5	252	29.8	12.2	0.2	19.5	34.5	0.85	25.3	97.0	15.4	3.23	583	6.2	11.4	3.14		7.13	2.2	14.7	0.5	3.8
GXR-1 Cert	427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20
GXR-1 Meas	385	2.3	229	28.4	11.5	0.2	17.3	31.7	0.71	23.6	85.0	14.3	3.03	498	5.6	10.6	2.55		6.35	2.0	13.7	0.5	3.3
GXR-1 Cert	427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20
GXR-1 Meas	381	2.2	210	26.4	12.1	0.2	17.1	30.2	0.72	22.0	84.5	13.1	2.92	350	5.4	9.77	2.56		6.23	1.9	12.5	0.4	3.2
GXR-1 Cert	427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	110	120	100	13.3	10.8	0.4	344	3.99	0.23	5.93	4.17	1.04	2.91	72.5	56.5	97.9	0.27		42.3	6.1	5.5	1.3	4.8
GXR-4 Cert	98.0	160	221	14.0	186	10.0	310	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25
GXR-4 Meas	100	108	88.7	12.5	9.5	0.3	297	3.64	0.23	5.47	3.80	0.90	2.64	48.2	51.1	90.5	0.45		38.4	5.4	4.8	1.2	4.5
GXR-4 Cert	98.0	160	221	14.0	186	10.0	310	4.00	0.270	5.60	4.80	0.970	2.80	1640	64.5	102	0.860		45.0	6.60	5.60	1.63	5.25
GXR-6 Meas	255	79.6	37.2	7.22	16.0	0.1	1.88	0.277	0.07	1.00	2.23	0.03	4.03	1160	11.6	31.2	0.13		11.9	2.2	< 0.1	0.5	2.0
GXR-6 Cert	330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97
GXR-6 Meas	259	79.4	35.5	7.05	15.8	0.1	1.91	0.275	0.07	1.03	2.29	0.05	4.09	1160	11.8	31.5	0.12		11.8	2.2	< 0.1	0.5	2.0
GXR-6 Cert	330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97
GXR-6 Meas	256	79.1	35.2	7.08	16.0	0.1	1.91	0.269	0.06	1.05	2.32	0.04	4.19	1170	11.8	32.1	0.15		11.6	2.1	< 0.1	0.5	1.9
GXR-6 Cert	330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97
GXR-6 Meas	254	77.6	36.5	7.24	17.6	0.1	1.84	0.260	0.06	1.06	2.28	0.04	4.02	1150	11.6	30.1	0.09		11.6	2.0	0.1	0.5	1.9
GXR-6 Cert	330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97
OREAS 45d (Aqua Regia) Meas	4.2	29.9	16.4	5.25					0.07	1.98				121	12.2	25.8							
OREAS 45d (Aqua Regia) Cert	6.50	20.9	11.0	5.08					0.085	1.950				80	9.960	24.8							
OREAS 45d (Aqua Regia) Meas	4.4	28.9	16.2	4.86					0.08	2.29				122	12.3	26.1							
OREAS 45d (Aqua Regia) Cert	6.50	20.9	11.0	5.08					0.085	1.950				80	9.960	24.8							
OREAS 45d (Aqua Regia) Meas	4.4	29.1	15.9	5.10					0.08	2.20				122	12.5	27.5							
OREAS 45d (Aqua Regia) Cert	6.50	20.9	11.0	5.08					0.085	1.950				80	9.960	24.8							
OREAS 45d	4.6	26.9	14.9	4.82					0.08	1.96				119	12.0	25.0							

Analyte Symbol	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
(Aqua Regia) Meas																								
OREAS 45d (Aqua Regia) Cert	6.50	20.9	11.0	5.08					0.085	1.950				80	9.960	24.8								
SdAR-M2 (U.S.G.S.) Meas		24.2	26.4	19.0	7.9	4.3	13.3							1.01	157	42.8	85.9	5.52	9.8	37.3	6.2		0.6	5.1
SdAR-M2 (U.S.G.S.) Cert		149	144	32.7	259	26.2	13.3							1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28
SdAR-M2 (U.S.G.S.) Meas		23.8	26.4	18.4	9.1	3.8	13.5							1.01	166	43.9	87.0	5.73	9.2	37.5	5.9		0.6	5.1
SdAR-M2 (U.S.G.S.) Cert		149	144	32.7	259	26.2	13.3							1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28
SdAR-M2 (U.S.G.S.) Meas		24.7	27.7	19.6	7.7	3.9	13.5							1.08	171	44.4	91.5	5.70	9.7	37.2	6.0		0.6	5.0
SdAR-M2 (U.S.G.S.) Cert		149	144	32.7	259	26.2	13.3							1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28
SdAR-M2 (U.S.G.S.) Meas		23.0	25.6	17.8	7.6	3.8	12.7							0.94	158	41.9	82.2	5.32	8.9	35.8	5.3		0.5	4.6
SdAR-M2 (U.S.G.S.) Cert		149	144	32.7	259	26.2	13.3							1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28
745927 Orig	11.4	11.7	296	19.8	12.8	0.7	2.94	0.083	0.05	1.10	0.62	0.03	2.34	265	18.2	36.7	0.14	4.9	22.2	4.3	< 0.1	1.1	4.6	
745927 Dup	11.0	11.6	291	18.9	11.8	0.6	2.87	0.088	0.05	1.10	0.61	0.04	2.37	266	17.7	35.8	0.14	4.9	22.0	4.3	< 0.1	1.1	4.5	
952328 Orig	6.2	22.8	30.7	4.21	0.8	1.3	1.78	1.18	0.04	0.94	0.41	0.08	1.68	161	7.1	15.8	0.40	1.4	5.71	1.0	0.1	0.3	1.0	
952328 Dup	6.4	22.5	29.8	4.21	0.7	1.2	1.81	0.302	0.04	1.00	0.42	0.08	1.68	163	7.2	16.1	0.42	1.5	5.71	1.1	< 0.1	0.3	1.0	
952329 Orig	5.4	28.8	33.7	6.00	0.9	0.6	1.73	0.549	0.03	1.05	0.35	0.06	2.36	260	9.3	17.4	1.60	1.9	7.89	1.5	< 0.1	0.4	1.4	
952329 Dup	5.3	29.8	33.2	6.01	0.7	0.6	1.74	0.543	0.03	1.04	0.34	0.07	2.43	274	9.3	17.0	1.61	1.9	7.80	1.5	< 0.1	0.4	1.5	
Method Blank	< 0.1	< 0.1	< 0.5	< 0.01	0.1	< 0.1	0.05	0.002	< 0.02	< 0.05	0.03	< 0.02	< 0.02	9.7	< 0.5	0.01	0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	0.07	< 0.002	< 0.02	< 0.05	0.03	< 0.02	< 0.02	9.3	< 0.5	0.01	0.02	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	< 0.1	< 0.1	< 0.5	0.02	0.2	< 0.1	0.05	< 0.002	< 0.02	< 0.05	< 0.02	< 0.02	< 0.02	9.8	< 0.5	0.04	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	

Analyte Symbol	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb								
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
GXR-1 Meas	0.6	4.3			0.3	2.0	0.3	0.2	< 0.05	152		3290	0.35	714	1.6	28.4	4200
GXR-1 Cert	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas	0.7	4.6			0.3	2.2	0.3	0.2	< 0.05	165		3540	0.39	807	1.8	32.3	4580
GXR-1 Cert	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas	0.6	4.2			0.3	2.1	0.3	0.2	< 0.05	150		4130	0.36	772	1.6	30.7	4100
GXR-1 Cert	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas	0.6	4.0			0.3	1.9	0.2	0.2	< 0.05	146		3480	0.36	778	1.6	30.6	4210
GXR-1 Cert	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164		3300	0.390	730	2.44	34.9	3900
DH-1a Meas															> 200	2390	
DH-1a Cert															910	2629	
DH-1a Meas															> 200	2430	
DH-1a Cert															910	2629	
DH-1a Meas															> 200	2290	
DH-1a Cert															910	2629	
DH-1a Meas															> 200	2320	
DH-1a Cert															910	2629	
GXR-4 Meas	0.5	2.6			0.1	0.9	0.1	0.3	< 0.05	13.0		460	3.11	52.0	19.4	5.1	180
GXR-4 Cert	0.360	2.60			0.210	1.60	0.170	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-4 Meas	0.4	2.4			0.1	0.8	0.1	0.3	< 0.05	11.7		456	2.90	47.9	17.0	4.8	120
GXR-4 Cert	0.360	2.60			0.210	1.60	0.170	6.30	0.790	30.8		470	3.20	52.0	22.5	6.20	110
GXR-6 Meas	0.2	1.6				0.8	0.1	0.4	< 0.05	< 0.1		50.7	2.05	106	4.2	0.8	80
GXR-6 Cert	0.415	2.80				2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas	0.2	1.5				0.8	0.1	0.5	< 0.05	< 0.1		55.9	2.02	110	4.2	1.0	70
GXR-6 Cert	0.415	2.80				2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas	0.2	1.5				0.8	0.1	0.5	< 0.05	< 0.1		63.1	2.04	107	4.2	0.9	70
GXR-6 Cert	0.415	2.80				2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas	0.2	1.5				0.8	0.1	0.4	< 0.05	0.1		60.5	1.92	101	4.0	0.9	60
GXR-6 Cert	0.415	2.80				2.40	0.330	4.30	0.485	1.90		95.0	2.20	101	5.30	1.54	68.0
OREAS 45d (Aqua Regia) Meas												14.5		18.4	10.4	1.5	
OREAS 45d (Aqua Regia) Cert												21		17.00	11.3	1.64	
OREAS 45d (Aqua Regia) Meas												13.8		18.5	10.3	1.5	
OREAS 45d (Aqua Regia) Cert												21		17.00	11.3	1.64	
OREAS 45d (Aqua Regia) Meas												13.7		19.1	10.7	1.6	
OREAS 45d (Aqua Regia) Cert												21		17.00	11.3	1.64	
OREAS 45d												12.2		18.5	10.1	1.6	

Analyte Symbol	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppb								
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS								
(Aqua Regia) Meas																	
OREAS 45d (Aqua Regia) Cert												21		17.00	11.3	1.64	
SdAR-M2 (U.S.G.S.) Meas	0.6	3.8	0.7	1.9	0.3	1.7	0.2	0.2	< 0.05	1.4				770	12.6	1.6	1130
SdAR-M2 (U.S.G.S.) Cert	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas	0.6	3.7	0.7	1.8	0.3	1.7	0.2	0.2	< 0.05	1.4				816	12.7	1.6	1120
SdAR-M2 (U.S.G.S.) Cert	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas	0.6	3.7	0.7	1.8	0.3	1.7	0.2	0.2	< 0.05	1.1				840	13.1	1.7	1160
SdAR-M2 (U.S.G.S.) Cert	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas	0.6	3.4	0.6	1.8	0.2	1.6	0.2	0.2	< 0.05	1.3				775	11.8	1.6	1090
SdAR-M2 (U.S.G.S.) Cert	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8				808	14.2	2.53	1440.00
745927 Orig	0.6	3.7	0.7	1.8	0.2	1.4	0.2	0.3	< 0.05	0.2	0.005	< 0.5	0.08	10.7	1.9	0.7	20
745927 Dup	0.6	3.7	0.7	1.7	0.2	1.4	0.2	0.3	< 0.05	0.2	0.005	< 0.5	0.08	10.4	1.9	0.7	10
952328 Orig	0.1	0.8	0.2	0.4	0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	1490	0.18	41.5	0.1	0.7	30
952328 Dup	0.1	0.8	0.2	0.4	0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	< 0.001	< 0.5	0.18	40.2	0.1	0.7	30
952329 Orig	0.2	1.3	0.2	0.6	0.1	0.6	0.1	< 0.1	< 0.05	0.1	0.001	4.1	0.16	49.3	0.1	1.0	50
952329 Dup	0.2	1.3	0.2	0.6	0.1	0.5	0.1	< 0.1	< 0.05	0.1	0.001	6.5	0.17	49.2	0.1	1.0	50
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	0.11	< 0.1	< 0.1	20
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	0.07	< 0.1	< 0.1	< 10
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.001	< 0.5	< 0.02	0.05	< 0.1	< 0.1	< 10

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-17
Invoice No.: A17-07494 (i)
Invoice Date: 04-Aug-17
Your Reference: JOY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

169 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)

Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-07494 (i)

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Notes:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
952200	< 3.0	6.2	30	1020	< 10	< 20	1.3	< 3	< 10	50	0.003	6.4	20	< 10	2.6	10	0.6	0.078	< 0.001	1.2	0.001	0.28	200
952201	< 3.0	9.2	< 30	1380	< 10	< 20	0.9	< 3	10	20	0.003	8.6	20	< 10	4.0	< 10	0.9	0.207	< 0.001	1.6	< 0.001	0.36	160
952202	< 3.0	6.8	< 30	1510	< 10	< 20	0.2	< 3	< 10	20	0.010	10.6	20	< 10	3.8	< 10	0.5	0.040	< 0.001	1.5	< 0.001	0.28	90
952203	< 3.0	8.4	< 30	1340	< 10	< 20	0.2	< 3	< 10	< 10	0.009	8.3	20	< 10	4.2	< 10	0.5	0.032	< 0.001	2.0	< 0.001	0.33	100
952204	< 3.0	8.3	40	1150	< 10	< 20	0.2	< 3	< 10	10	0.019	7.9	30	< 10	3.8	< 10	0.6	0.046	< 0.001	1.4	< 0.001	0.24	130
952205	< 3.0	8.8	< 30	1310	< 10	< 20	0.3	< 3	< 10	130	0.005	5.6	20	< 10	3.9	10	0.6	0.059	< 0.001	0.9	< 0.001	0.18	470
952206	3.0	9.1	< 30	1320	< 10	< 20	0.5	3	< 10	10	0.007	4.6	20	< 10	3.8	20	0.8	0.085	< 0.001	1.3	< 0.001	0.15	530
952207	< 3.0	5.0	< 30	1060	< 10	< 20	0.7	< 3	< 10	40	0.002	4.3	20	< 10	2.8	20	0.6	0.050	< 0.001	1.4	< 0.001	0.14	130
952208	< 3.0	6.8	< 30	1170	< 10	< 20	0.8	< 3	< 10	30	0.004	4.4	20	< 10	3.1	< 10	0.6	0.082	< 0.001	1.4	0.001	0.25	210
952209	< 3.0	7.5	< 30	930	< 10	< 20	1.0	< 3	< 10	70	0.002	3.7	10	< 10	2.5	30	0.7	0.082	< 0.001	1.8	0.002	0.20	130
952210	< 3.0	6.0	< 30	890	< 10	< 20	1.1	< 3	< 10	90	0.001	3.7	20	< 10	2.3	20	0.6	0.055	< 0.001	2.1	0.002	0.10	40
952211	< 3.0	5.8	< 30	900	< 10	< 20	0.9	< 3	< 10	50	0.001	2.9	10	< 10	2.3	20	0.5	0.056	< 0.001	1.7	0.002	0.16	< 30
952212	< 3.0	6.4	< 30	1100	< 10	< 20	1.2	< 3	< 10	80	< 0.001	2.9	10	< 10	2.5	20	0.6	0.112	< 0.001	2.2	< 0.001	0.09	< 30
952213	6.8	6.7	< 30	1080	< 10	< 20	1.5	< 3	< 10	50	0.002	3.6	20	< 10	2.4	20	0.7	0.094	< 0.001	2.1	0.002	0.12	50
952214	< 3.0	6.0	< 30	1010	< 10	< 20	1.0	< 3	< 10	30	0.001	2.6	20	< 10	2.3	< 10	0.3	0.104	< 0.001	1.4	< 0.001	0.15	60
952215	< 3.0	6.3	< 30	970	< 10	< 20	1.2	< 3	< 10	50	< 0.001	3.1	20	< 10	2.6	20	0.5	0.066	< 0.001	2.0	0.002	0.10	60
952216	< 3.0	6.4	< 30	1220	< 10	< 20	0.7	< 3	< 10	20	0.008	2.5	20	< 10	2.9	10	0.5	0.039	< 0.001	1.8	< 0.001	0.08	70
952217	< 3.0	5.4	< 30	1040	< 10	< 20	0.5	< 3	< 10	10	0.006	4.4	< 10	< 10	3.4	20	0.4	0.059	< 0.001	0.7	< 0.001	0.09	160
952218	< 3.0	6.1	< 30	820	< 10	< 20	1.5	< 3	< 10	40	0.003	3.5	10	< 10	2.2	30	0.8	0.085	< 0.001	1.4	0.002	0.07	70
952219	< 3.0	7.3	< 30	720	< 10	< 20	2.4	< 3	< 10	40	0.006	3.2	20	< 10	2.1	10	0.4	0.171	< 0.001	1.7	0.001	0.12	90
952220	< 3.0	5.8	< 30	810	< 10	< 20	1.5	< 3	< 10	50	0.002	2.8	20	< 10	2.0	20	0.5	0.098	< 0.001	1.6	< 0.001	0.10	30
952221	< 3.0	6.7	< 30	890	< 10	< 20	1.8	< 3	< 10	30	0.003	3.9	20	< 10	2.0	20	0.6	0.104	< 0.001	1.7	0.001	0.16	30
952222	< 3.0	6.1	< 30	760	< 10	< 20	1.9	< 3	< 10	30	0.005	3.2	20	< 10	2.0	10	0.3	0.084	< 0.001	1.7	0.001	0.13	< 30
952223	< 3.0	4.9	< 30	710	< 10	< 20	1.0	< 3	< 10	60	0.003	3.3	< 10	< 10	1.8	10	0.5	0.066	< 0.001	1.5	0.002	0.05	50
952224	< 3.0	7.2	< 30	1080	< 10	< 20	1.8	< 3	< 10	70	0.006	4.0	< 10	< 10	2.7	10	0.8	0.097	< 0.001	2.3	0.002	0.07	60
952225	< 3.0	6.8	< 30	1120	< 10	< 20	1.7	< 3	< 10	70	0.003	4.5	20	< 10	2.6	20	0.8	0.108	< 0.001	2.2	0.003	0.11	60
952226	< 3.0	7.3	< 30	860	< 10	< 20	1.3	< 3	< 10	90	0.005	7.9	20	< 10	1.9	20	0.8	0.092	< 0.001	1.7	0.004	0.17	50
952227	< 3.0	8.2	< 30	970	< 10	< 20	1.7	< 3	10	60	0.003	6.0	20	< 10	2.5	30	1.0	0.100	< 0.001	2.4	0.003	0.06	< 30
952228	< 3.0	6.9	< 30	810	< 10	< 20	1.3	< 3	< 10	60	0.001	4.8	20	< 10	1.8	20	0.6	0.058	< 0.001	2.3	< 0.001	0.11	< 30
952229	< 3.0	7.8	< 30	1040	< 10	< 20	1.5	< 3	< 10	40	0.004	3.9	10	< 10	2.5	20	0.7	0.107	< 0.001	2.3	0.002	0.16	70
952230	< 3.0	6.8	< 30	920	< 10	< 20	1.5	< 3	< 10	70	0.002	3.2	20	< 10	2.3	20	0.5	0.099	< 0.001	2.1	0.001	0.09	90
952231	< 3.0	6.5	< 30	990	< 10	< 20	1.4	< 3	< 10	80	0.002	3.5	10	< 10	2.3	20	0.6	0.068	< 0.001	2.4	0.002	0.09	40
952232	< 3.0	5.9	< 30	960	< 10	< 20	2.0	< 3	< 10	80	0.001	3.5	20	< 10	2.3	20	0.6	0.136	< 0.001	2.3	< 0.001	0.07	40
952233	< 3.0	9.6	< 30	1280	< 10	< 20	0.5	< 3	< 10	20	0.003	5.8	10	< 10	4.2	< 10	0.6	0.078	< 0.001	1.9	0.003	0.24	30
952234	< 3.0	8.9	< 30	1220	< 10	< 20	0.6	< 3	< 10	20	0.003	5.2	20	< 10	3.4	< 10	0.7	0.147	< 0.001	2.2	< 0.001	0.20	60
952235	< 3.0	6.2	< 30	1180	< 10	< 20	0.7	< 3	< 10	30	0.003	5.9	20	< 10	2.9	< 10	0.5	0.069	< 0.001	1.0	< 0.001	0.28	140
952236	< 3.0	5.3	< 30	1170	< 10	< 20	1.3	< 3	< 10	30	0.005	5.8	20	< 10	2.5	10	0.7	0.082	< 0.001	1.3	0.001	0.23	150
952237	< 3.0	6.8	< 30	1280	< 10	< 20	0.8	< 3	< 10	30	0.004	3.9	10	< 10	2.9	< 10	0.5	0.056	< 0.001	1.4	< 0.001	0.16	100
952238	< 3.0	9.2	< 30	1160	< 10	< 20	2.5	< 3	< 10	20	0.009	5.6	20	< 10	3.1	10	1.1	0.241	< 0.001	2.0	< 0.001	0.19	130
952239	< 3.0	7.4	< 30	990	< 10	< 20	0.9	< 3	< 10	30	0.006	6.6	10	< 10	2.2	10	0.6	0.104	< 0.001	1.3	< 0.001	0.30	80
952240	< 3.0	7.7	< 30	1250	< 10	< 20	1.0	< 3	< 10	20	0.005	5.0	20	< 10	2.9	< 10	0.6	0.133	< 0.001	1.2	< 0.001	0.25	130
952241	< 3.0	9.3	40	1510	< 10	< 20	0.7	< 3	< 10	< 10	0.004	7.5	30	< 10	4.5	10	1.4	0.139	< 0.001	1.2	< 0.001	0.23	190

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
952242	< 3.0	8.1	< 30	1130	< 10	< 20	2.0	< 3	< 10	20	0.006	5.2	20	< 10	2.9	10	0.8	0.153	< 0.001	1.5	< 0.001	0.21	140
952243	< 3.0	9.0	< 30	1400	< 10	< 20	1.3	3	10	20	0.010	4.5	20	< 10	4.5	< 10	0.8	0.337	< 0.001	1.1	< 0.001	0.19	310
952244	< 3.0	8.4	< 30	1060	< 10	< 20	1.9	< 3	30	40	0.010	5.6	20	< 10	3.6	10	0.8	0.423	< 0.001	1.6	0.002	0.26	250
952245	< 3.0	5.6	< 30	970	< 10	< 20	1.8	< 3	< 10	60	0.007	4.0	10	< 10	2.4	10	0.7	0.140	< 0.001	1.5	0.002	0.22	80
952246	< 3.0	8.1	< 30	940	< 10	< 20	1.3	< 3	10	50	0.004	4.6	10	< 10	3.5	20	1.2	0.257	< 0.001	1.6	0.002	0.18	80
952247	< 3.0	7.1	< 30	450	< 10	< 20	1.2	< 3	< 10	30	0.002	4.9	20	< 10	2.6	10	0.4	0.159	< 0.001	1.6	< 0.001	0.29	< 30
952248	< 3.0	6.3	< 30	520	< 10	< 20	1.3	< 3	< 10	60	0.005	4.7	10	< 10	2.4	10	0.5	0.169	< 0.001	1.7	0.001	0.30	< 30
952249	3.3	9.8	< 30	920	< 10	< 20	3.2	< 3	10	20	0.015	5.3	30	< 10	4.0	10	0.7	0.360	< 0.001	1.5	0.001	0.16	100
952250	3.9	9.3	< 30	1300	< 10	< 20	2.9	< 3	< 10	10	0.039	7.5	20	< 10	4.4	< 10	0.8	0.221	0.002	1.0	0.001	0.26	2170
952251	< 3.0	10.3	< 30	1200	< 10	< 20	2.6	< 3	10	30	0.018	5.9	30	< 10	5.1	< 10	0.7	0.335	0.003	1.0	< 0.001	0.18	140
952252	< 3.0	9.4	< 30	940	< 10	< 20	2.3	< 3	10	40	0.008	5.1	20	< 10	3.2	20	0.8	0.290	< 0.001	1.6	0.002	0.22	130
952253	< 3.0	8.6	< 30	970	< 10	< 20	4.0	< 3	20	60	0.020	5.7	20	< 10	3.0	20	0.8	0.425	< 0.001	1.2	0.001	0.21	140
952254	< 3.0	4.8	< 30	920	< 10	< 20	1.5	< 3	< 10	30	0.003	3.6	20	< 10	2.3	< 10	0.4	0.132	< 0.001	1.8	< 0.001	0.21	100
952255	< 3.0	6.7	< 30	1170	< 10	< 20	1.3	4	20	40	0.003	4.4	10	< 10	2.3	30	0.8	0.399	< 0.001	1.7	0.002	0.32	70
952256	< 3.0	7.4	< 30	1160	< 10	< 20	0.9	< 3	< 10	40	0.004	3.6	20	< 10	2.9	10	0.6	0.065	< 0.001	1.5	0.001	0.12	220
952257	< 3.0	8.1	< 30	1110	< 10	< 20	1.6	< 3	< 10	40	0.003	4.0	20	10	2.6	20	0.5	0.089	< 0.001	1.5	0.001	0.14	190
952258	< 3.0	7.9	< 30	1300	< 10	< 20	1.3	< 3	< 10	30	0.003	4.2	20	< 10	3.5	< 10	0.7	0.081	< 0.001	1.7	< 0.001	0.10	150
952259	< 3.0	8.2	< 30	1140	< 10	< 20	3.2	< 3	< 10	40	0.002	4.0	20	< 10	2.6	10	0.4	0.136	< 0.001	2.1	0.001	0.08	60
952260	< 3.0	7.3	< 30	1090	< 10	< 20	3.4	< 3	< 10	30	0.003	4.4	20	< 10	2.3	< 10	0.4	0.140	< 0.001	2.0	0.001	0.09	90
952261	< 3.0	7.3	< 30	1090	< 10	< 20	1.9	< 3	< 10	50	0.004	3.8	10	< 10	2.3	20	0.6	0.095	< 0.001	1.8	0.001	0.13	70
952262	< 3.0	7.6	< 30	1180	< 10	< 20	3.2	< 3	< 10	30	0.003	4.4	20	< 10	2.5	20	0.6	0.157	< 0.001	1.9	< 0.001	0.12	100
952263	< 3.0	6.9	< 30	1180	< 10	< 20	2.9	4	< 10	40	0.006	4.3	30	< 10	2.6	20	0.6	0.139	< 0.001	2.0	0.001	0.06	70
952264	< 3.0	6.4	< 30	1170	< 10	< 20	2.9	< 3	< 10	30	0.014	3.6	20	< 10	2.6	< 10	0.7	0.158	< 0.001	2.2	0.001	0.10	140
952265	< 3.0	7.8	< 30	1090	< 10	< 20	2.4	< 3	< 10	30	0.004	4.3	20	< 10	2.1	< 10	0.5	0.104	< 0.001	2.0	< 0.001	0.15	50
952266	< 3.0	7.5	< 30	1190	< 10	< 20	3.1	< 3	< 10	50	0.003	2.9	20	< 10	2.6	< 10	0.3	0.117	< 0.001	2.4	< 0.001	0.04	40
952267	< 3.0	7.7	< 30	1180	< 10	< 20	3.0	< 3	< 10	40	0.002	2.8	20	< 10	2.5	10	0.3	0.122	< 0.001	2.4	< 0.001	0.05	30
952268	< 3.0	7.6	40	1170	< 10	< 20	3.2	5	< 10	40	0.004	4.0	20	< 10	2.5	10	0.6	0.147	< 0.001	2.4	0.001	0.07	60
952269	< 3.0	6.8	< 30	1080	< 10	< 20	2.6	12	< 10	40	0.166	3.0	20	< 10	2.5	20	0.6	0.197	< 0.001	2.4	0.002	0.12	80
952270	< 3.0	6.6	< 30	800	< 10	< 20	1.3	< 3	< 10	20	0.004	4.2	< 10	< 10	2.7	< 10	0.6	0.151	< 0.001	0.9	< 0.001	0.40	100
952271	< 3.0	6.5	< 30	1170	< 10	< 20	0.9	< 3	20	20	0.002	3.8	< 10	< 10	2.9	< 10	0.3	1.18	< 0.001	0.9	< 0.001	0.52	150
952272	< 3.0	7.6	< 30	760	< 10	< 20	1.2	< 3	20	50	0.003	5.5	20	< 10	2.7	20	0.7	0.446	< 0.001	1.4	0.002	0.49	90
952273	< 3.0	8.2	< 30	640	< 10	< 20	3.9	< 3	10	20	0.004	7.0	30	< 10	2.8	20	1.1	0.385	< 0.001	1.5	< 0.001	0.15	200
952274	< 3.0	6.3	40	710	< 10	< 20	0.7	< 3	10	30	0.003	5.9	20	< 10	2.8	20	1.0	0.206	< 0.001	1.3	< 0.001	0.22	80
952275	< 3.0	5.3	< 30	1510	< 10	< 20	0.8	< 3	< 10	30	0.002	4.4	20	< 10	2.9	10	0.4	0.435	< 0.001	1.8	0.004	0.31	60
952276	< 3.0	8.5	< 30	1260	< 10	< 20	0.7	< 3	10	30	0.002	4.9	10	< 10	3.2	20	0.6	0.374	< 0.001	2.2	0.001	0.24	50
952277	< 3.0	6.6	< 30	880	< 10	< 20	0.8	< 3	< 10	30	0.002	4.0	20	< 10	3.0	10	0.4	0.176	< 0.001	1.8	0.002	0.28	40
952278	< 3.0	6.2	< 30	1790	< 10	< 20	1.1	< 3	< 10	50	0.002	3.7	20	< 10	2.3	30	0.3	0.232	< 0.001	2.2	0.002	0.14	40
952279	< 3.0	6.4	< 30	1040	< 10	< 20	1.0	< 3	< 10	20	0.003	4.6	20	< 10	2.4	< 10	0.4	0.089	< 0.001	2.2	0.001	0.22	< 30
952280	< 3.0	7.2	< 30	860	< 10	< 20	1.1	< 3	< 10	30	0.002	4.9	10	< 10	2.1	10	0.6	0.093	< 0.001	1.8	0.002	0.18	50
952281	< 3.0	7.3	< 30	1020	< 10	< 20	1.1	< 3	< 10	30	0.004	4.9	20	< 10	2.5	10	0.5	0.095	< 0.001	1.9	0.001	0.15	60
952282	< 3.0	6.7	< 30	850	< 10	< 20	1.0	< 3	< 10	30	0.006	4.9	20	< 10	2.1	< 10	0.5	0.104	< 0.001	1.4	< 0.001	0.23	40
952283	< 3.0	7.5	< 30	730	< 10	< 20	2.6	< 3	20	40	0.028	8.3	20	< 10	1.6	10	0.9	0.195	< 0.001	1.1	0.001	0.61	40

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
952284	< 3.0	7.7	< 30	2120	< 10	< 20	2.7	< 3	20	20	0.081	11.2	20	< 10	2.4	10	1.4	0.258	0.002	0.8	0.001	0.38	90
952285	< 3.0	6.4	< 30	880	< 10	< 20	2.5	< 3	30	60	0.069	6.3	10	< 10	1.9	20	1.2	0.275	< 0.001	1.2	0.002	0.27	80
952286	< 3.0	9.3	< 30	1090	< 10	< 20	3.5	< 3	30	40	0.020	5.5	20	< 10	2.7	10	1.1	0.299	< 0.001	1.9	0.002	0.17	80
952287	< 3.0	8.2	< 30	1060	< 10	< 20	1.7	< 3	< 10	30	0.019	5.2	20	< 10	2.3	20	0.6	0.181	< 0.001	1.6	< 0.001	0.17	40
952288	< 3.0	9.4	< 30	1180	< 10	< 20	2.8	< 3	50	30	0.013	5.8	20	< 10	2.7	20	1.6	0.302	< 0.001	1.9	0.002	0.20	60
952289	< 3.0	8.3	< 30	1210	< 10	< 20	1.8	< 3	10	30	0.005	5.0	10	< 10	3.4	10	0.9	0.327	< 0.001	1.7	< 0.001	0.27	170
952290	< 3.0	8.4	< 30	1100	< 10	< 20	1.9	< 3	< 10	40	0.005	5.0	20	< 10	2.9	< 10	0.6	0.165	< 0.001	1.3	< 0.001	0.24	120
952291	< 3.0	8.1	< 30	1080	< 10	< 20	2.1	< 3	10	40	0.004	5.7	30	< 10	3.0	10	0.8	0.268	< 0.001	1.5	< 0.001	0.19	70
952292	< 3.0	8.7	< 30	1090	< 10	< 20	2.0	< 3	10	30	0.002	8.0	10	< 10	3.5	20	1.0	0.336	< 0.001	2.1	0.001	0.29	350
952293	< 3.0	9.0	< 30	1400	< 10	< 20	2.1	10	20	20	0.007	5.5	10	< 10	4.5	10	1.2	0.516	< 0.001	2.1	0.001	0.16	650
952294	< 3.0	8.7	< 30	1300	< 10	< 20	3.2	< 3	20	10	0.006	5.4	20	< 10	4.3	< 10	0.9	0.318	< 0.001	2.2	< 0.001	0.17	420
952295	< 3.0	8.8	< 30	1350	< 10	< 20	1.9	9	20	20	0.008	5.7	20	< 10	4.0	20	1.3	0.668	< 0.001	2.0	0.002	0.17	1140
952296	< 3.0	9.8	< 30	1210	< 10	< 20	3.6	6	30	20	0.009	7.3	10	< 10	3.9	10	1.2	0.523	< 0.001	1.9	< 0.001	0.26	680
952297	< 3.0	10.0	< 30	1190	< 10	< 20	3.4	4	30	10	0.032	7.2	20	< 10	4.2	20	1.5	0.600	0.001	1.8	< 0.001	0.21	160
952298	< 3.0	10.5	< 30	1520	< 10	< 20	4.8	11	20	20	0.007	5.5	30	< 10	4.5	20	1.6	0.717	< 0.001	1.7	0.002	0.16	40
952299	< 3.0	8.1	< 30	1120	< 10	< 20	2.2	< 3	10	20	0.005	5.0	30	< 10	2.9	20	1.0	0.464	< 0.001	1.1	0.001	0.39	70
745926	< 3.0	4.6	< 30	580	< 10	< 20	2.6	< 3	10	60	0.006	3.4	< 10	< 10	1.4	10	1.1	0.073	< 0.001	2.5	0.005	0.06	< 30
745927	< 3.0	8.5	< 30	940	< 10	< 20	5.8	< 3	20	70	0.015	6.0	20	< 10	2.2	30	2.3	0.143	< 0.001	2.4	0.005	0.16	< 30
952300	< 3.0	6.0	< 30	1670	< 10	< 20	1.7	< 3	10	40	0.016	6.3	10	< 10	4.1	10	1.1	0.228	< 0.001	1.8	0.001	0.18	90
952301	< 3.0	5.0	< 30	1240	< 10	< 20	1.4	< 3	< 10	30	0.007	4.3	20	< 10	2.8	10	0.7	0.183	< 0.001	1.5	< 0.001	0.31	50
952302	< 3.0	7.4	< 30	1640	< 10	< 20	1.5	4	30	10	0.028	7.6	20	< 10	4.6	10	1.2	0.369	0.002	1.0	< 0.001	0.28	30
952303	< 3.0	9.2	< 30	2280	< 10	< 20	1.8	< 3	< 10	10	0.009	8.5	20	< 10	4.0	< 10	1.0	0.281	0.002	1.1	< 0.001	0.40	90
952304	< 3.0	8.7	40	1740	< 10	< 20	1.3	< 3	< 10	20	0.004	7.4	20	< 10	4.1	< 10	0.9	0.143	0.001	0.8	0.001	0.17	130
952305	< 3.0	4.1	< 30	1150	< 10	< 20	3.1	4	< 10	20	0.011	5.0	10	< 10	2.8	10	1.1	0.250	< 0.001	1.4	< 0.001	0.18	90
952306	< 3.0	7.8	< 30	830	< 10	< 20	2.3	< 3	< 10	40	0.002	6.0	30	< 10	2.5	10	0.5	0.159	< 0.001	1.4	< 0.001	0.27	80
952307	< 3.0	9.4	< 30	1170	< 10	< 20	2.1	< 3	30	< 10	0.007	6.5	30	< 10	5.2	20	1.8	0.338	0.002	1.3	< 0.001	0.18	300
952308	< 3.0	9.5	< 30	1240	< 10	< 20	3.5	7	20	< 10	0.018	6.4	20	< 10	4.5	20	1.4	0.405	< 0.001	1.4	< 0.001	0.19	640
952309	< 3.0	8.5	< 30	1150	< 10	< 20	2.9	< 3	< 10	10	0.008	7.6	20	< 10	4.8	10	1.2	0.270	< 0.001	1.4	< 0.001	0.25	410
952310	< 3.0	9.3	40	1580	< 10	< 20	1.7	13	10	30	0.026	5.5	10	< 10	5.2	< 10	0.9	0.487	< 0.001	1.5	< 0.001	0.17	1340
952311	< 3.0	8.1	40	1040	< 10	< 20	2.6	20	20	10	0.029	5.7	10	< 10	4.2	< 10	0.9	0.506	< 0.001	1.6	0.002	0.13	1370
952312	< 3.0	6.3	< 30	1000	< 10	< 20	1.9	< 3	20	30	0.010	5.8	10	< 10	3.4	20	1.1	0.295	< 0.001	1.5	0.002	0.20	160
952313	< 3.0	7.3	< 30	680	< 10	< 20	1.1	< 3	< 10	20	0.004	3.2	10	< 10	2.4	10	0.4	0.181	< 0.001	1.6	0.001	0.18	70
952314	< 3.0	9.6	< 30	1190	< 10	< 20	2.4	< 3	20	20	0.009	5.2	20	< 10	3.7	10	1.1	0.327	< 0.001	1.7	0.001	0.18	150
952315	< 3.0	9.4	< 30	980	< 10	< 20	0.7	< 3	10	20	0.002	3.8	20	< 10	4.7	10	1.2	0.246	< 0.001	1.3	< 0.001	0.17	< 30
952316	< 3.0	7.8	40	1130	< 10	< 20	1.6	< 3	< 10	20	0.003	3.8	20	< 10	3.1	10	1.0	0.354	< 0.001	1.6	< 0.001	0.23	50
952317	< 3.0	7.9	< 30	1160	< 10	< 20	1.6	< 3	< 10	30	0.009	5.1	20	< 10	2.8	10	0.8	0.185	< 0.001	1.5	< 0.001	0.20	220
952318	< 3.0	6.4	< 30	1030	< 10	< 20	1.8	< 3	10	30	0.005	5.0	20	< 10	2.7	20	0.9	0.212	< 0.001	1.8	0.001	0.25	110
952319	< 3.0	8.3	< 30	1420	< 10	< 20	1.1	< 3	< 10	20	0.009	3.8	20	< 10	3.7	20	1.2	0.221	< 0.001	1.2	0.002	0.23	100
952320	< 3.0	5.9	< 30	1060	< 10	< 20	1.3	< 3	10	30	0.007	4.4	10	< 10	3.5	20	1.0	0.277	< 0.001	1.8	0.001	0.16	170
952321	< 3.0	7.8	< 30	1070	< 10	< 20	0.9	< 3	< 10	20	0.003	3.7	20	< 10	3.0	10	0.8	0.157	< 0.001	2.1	0.001	0.14	50
952322	< 3.0	9.7	< 30	1340	< 10	< 20	1.2	< 3	< 10	20	0.010	3.7	20	< 10	4.5	10	1.1	0.183	< 0.001	1.9	< 0.001	0.14	310
952323	< 3.0	10.1	< 30	1240	< 10	< 20	1.5	< 3	< 10	10	0.007	4.6	20	< 10	4.4	10	1.0	0.288	< 0.001	1.9	0.002	0.18	190

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
952324	< 3.0	9.5	< 30	1100	< 10	< 20	1.0	< 3	< 10	10	0.003	4.1	20	< 10	3.9	10	0.8	0.178	< 0.001	1.6	< 0.001	0.15	170
952325	< 3.0	7.9	< 30	910	< 10	< 20	1.0	< 3	< 10	20	0.003	4.8	10	< 10	2.6	20	0.7	0.206	< 0.001	1.9	< 0.001	0.25	140
952326	< 3.0	8.3	< 30	1100	< 10	< 20	1.2	< 3	< 10	30	0.002	5.4	20	< 10	2.7	10	0.7	0.213	< 0.001	2.1	0.001	0.15	100
952327	< 3.0	8.2	< 30	1020	< 10	< 20	1.1	< 3	< 10	20	0.004	4.5	20	< 10	2.9	20	0.8	0.300	< 0.001	2.0	< 0.001	0.17	110
952328	< 3.0	5.6	< 30	910	< 10	< 20	0.8	< 3	< 10	20	0.001	4.3	20	< 10	2.3	< 10	0.5	0.104	< 0.001	1.7	< 0.001	0.12	50
952329	< 3.0	6.3	< 30	930	< 10	< 20	0.8	< 3	< 10	20	0.002	3.6	10	< 10	2.7	10	0.5	0.232	< 0.001	1.6	< 0.001	0.26	60
952330	< 3.0	6.9	< 30	900	< 10	< 20	1.4	< 3	< 10	30	0.005	3.1	20	< 10	3.0	10	0.9	0.085	< 0.001	1.8	0.002	0.14	40
952331	< 3.0	7.3	< 30	1310	< 10	< 20	0.8	< 3	10	30	0.002	4.3	10	< 10	2.2	< 10	0.4	1.89	< 0.001	1.4	< 0.001	0.39	270
952332	< 3.0	8.8	30	800	< 10	< 20	0.8	< 3	< 10	30	0.005	4.2	20	< 10	2.4	10	0.7	0.263	< 0.001	1.8	0.001	0.17	40
952333	< 3.0	9.0	< 30	860	< 10	< 20	1.3	< 3	< 10	30	0.002	3.7	20	< 10	2.8	10	0.5	0.218	< 0.001	1.9	0.001	0.20	50
952334	< 3.0	8.0	< 30	630	< 10	< 20	2.1	< 3	20	120	0.010	5.7	20	< 10	2.2	20	1.5	0.437	< 0.001	1.4	0.004	0.23	270
952335	< 3.0	7.9	< 30	660	< 10	< 20	1.5	3	10	50	0.005	5.4	20	< 10	2.4	20	0.9	0.444	< 0.001	1.1	< 0.001	0.34	480
952336	< 3.0	9.5	< 30	470	< 10	< 20	1.5	< 3	10	40	0.005	4.5	30	< 10	3.1	20	1.0	0.364	< 0.001	1.8	0.002	0.24	160
952337	< 3.0	6.7	< 30	490	< 10	< 20	2.5	< 3	50	370	0.008	5.9	10	< 10	1.5	20	1.9	0.791	< 0.001	1.0	0.007	0.34	220
952338	< 3.0	7.3	< 30	770	< 10	< 20	2.8	< 3	20	170	0.010	5.0	20	< 10	2.0	20	1.7	0.240	< 0.001	1.6	0.005	0.08	190
952339	< 3.0	8.7	< 30	590	< 10	< 20	2.3	< 3	30	170	0.015	5.8	30	< 10	2.5	20	2.7	0.467	< 0.001	1.7	0.008	0.12	350
952340	< 3.0	8.4	< 30	710	< 10	< 20	3.2	9	30	230	0.020	5.7	20	< 10	3.0	20	2.9	0.499	< 0.001	0.8	0.009	0.12	270
952341	< 3.0	5.5	< 30	720	< 10	< 20	3.2	16	30	190	0.014	5.4	< 10	< 10	2.4	20	2.6	0.440	< 0.001	1.1	0.008	0.13	240
952342	< 3.0	9.1	< 30	780	< 10	< 20	1.2	< 3	10	30	0.004	4.4	20	< 10	2.5	10	1.0	0.146	< 0.001	2.2	0.002	0.12	30
952343	< 3.0	8.3	< 30	620	< 10	< 20	0.8	< 3	< 10	40	0.004	4.4	30	< 10	2.2	10	0.6	0.198	< 0.001	1.9	0.001	0.16	40
952344	< 3.0	8.2	< 30	680	< 10	< 20	0.7	< 3	< 10	50	0.003	4.9	20	< 10	2.3	20	1.2	0.153	< 0.001	1.5	0.002	0.15	60
952345	3.9	8.2	50	620	< 10	< 20	3.5	5	30	220	0.019	6.1	10	< 10	2.3	30	2.9	0.244	< 0.001	1.3	0.010	0.21	520
952346	< 3.0	8.9	30	840	< 10	< 20	1.0	< 3	10	80	0.016	4.6	10	< 10	2.9	20	1.5	0.138	< 0.001	1.5	0.003	0.10	90
952347	< 3.0	7.9	< 30	550	< 10	< 20	1.8	< 3	20	100	0.022	6.2	20	< 10	3.1	20	1.7	0.263	< 0.001	1.2	0.004	0.15	< 30
952348	3.9	5.6	< 30	710	< 10	< 20	0.8	10	< 10	40	0.202	5.6	20	< 10	3.1	20	0.8	0.386	< 0.001	1.2	0.002	0.12	60
952349	< 3.0	9.1	< 30	820	< 10	< 20	0.4	< 3	< 10	20	0.008	4.1	20	< 10	3.6	< 10	0.5	0.148	< 0.001	1.4	< 0.001	0.20	40
952350	< 3.0	8.7	< 30	680	< 10	< 20	1.4	4	40	290	0.039	6.6	20	< 10	2.4	30	3.1	0.504	< 0.001	1.1	0.009	0.16	80
952351	< 3.0	9.4	< 30	1050	< 10	< 20	0.8	< 3	20	30	0.007	5.4	20	< 10	3.8	10	0.8	0.327	< 0.001	1.6	< 0.001	0.15	80
952352	< 3.0	6.6	< 30	630	< 10	< 20	1.5	< 3	20	150	0.007	5.5	20	< 10	1.9	20	1.8	0.169	< 0.001	1.5	0.004	0.18	< 30
952353	< 3.0	8.2	< 30	870	< 10	< 20	1.2	< 3	20	140	0.011	6.1	10	< 10	2.8	20	1.6	0.363	< 0.001	1.7	0.004	0.21	80
952354	< 3.0	8.9	< 30	880	< 10	< 20	1.2	< 3	20	100	0.012	6.3	20	< 10	3.3	10	1.5	0.215	< 0.001	2.0	0.004	0.15	90
952355	< 3.0	6.5	< 30	670	< 10	< 20	1.8	< 3	< 10	60	0.007	2.7	20	< 10	2.0	< 10	0.7	0.095	< 0.001	1.4	< 0.001	0.13	70
952356	< 3.0	4.5	< 30	940	< 10	< 20	2.2	< 3	< 10	60	0.003	4.1	20	< 10	2.1	< 10	0.6	0.110	< 0.001	1.6	< 0.001	0.12	< 30
952357	< 3.0	7.8	< 30	750	< 10	< 20	2.3	< 3	< 10	60	< 0.001	2.3	40	< 10	2.5	< 10	0.4	0.065	< 0.001	1.6	< 0.001	0.07	60
952358	< 3.0	8.4	< 30	900	< 10	< 20	3.0	< 3	< 10	50	0.003	4.2	20	< 10	2.3	20	0.9	0.129	< 0.001	1.6	0.001	0.12	50
952359	5.4	11.0	< 30	1420	< 10	< 20	0.5	43	20	20	0.138	8.8	30	< 10	6.8	< 10	0.6	0.699	0.001	0.1	< 0.001	0.12	340
952360	3.3	9.6	< 30	1240	< 10	< 20	1.2	< 3	< 10	30	0.020	4.1	10	< 10	3.9	20	0.8	0.216	< 0.001	1.1	0.001	0.11	140
952361	< 3.0	9.0	< 30	970	< 10	< 20	2.0	< 3	< 10	40	0.012	3.9	20	< 10	3.5	10	0.9	0.238	< 0.001	1.7	< 0.001	0.10	170
952362	3.6	7.1	< 30	1100	< 10	< 20	1.3	5	< 10	20	0.015	4.4	20	< 10	3.6	10	0.7	0.330	0.001	1.6	< 0.001	0.09	550
952363	< 3.0	8.5	< 30	1100	< 10	< 20	1.2	4	10	30	0.007	4.1	20	< 10	3.4	< 10	0.7	0.490	< 0.001	1.5	0.002	0.18	280
952364	< 3.0	7.8	< 30	950	< 10	< 20	1.2	< 3	< 10	40	0.002	4.2	20	< 10	2.8	20	0.7	0.140	< 0.001	2.5	< 0.001	0.14	80
745928	< 3.0	5.8	< 30	560	< 10	< 20	2.5	< 3	< 10	50	0.005	3.3	20	< 10	1.3	10	1.0	0.066	< 0.001	2.4	0.005	0.06	< 30

Results**Activation Laboratories Ltd.****Report: A17-07494**

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
745929	< 3.0	7.6	< 30	870	< 10	< 20	2.6	< 3	< 10	30	0.112	3.8	10	< 10	2.7	< 10	0.8	0.081	< 0.001	3.2	0.001	0.06	< 30

Results

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Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
952200	0.4	< 50	< 40	200	< 20	0.4	< 50	< 100	160	< 50	10	0.021	110	0.015	< 1	0.164	7.5	0.5	5	0.055	0.30	2.34	0.20
952201	0.8	< 50	< 40	320	< 20	0.5	< 50	< 100	170	< 50	20	0.023	120	0.056	< 1	0.276	6.7	0.6	5	0.083	0.39	1.90	0.28
952202	1.6	< 50	< 40	240	< 20	0.5	< 50	< 100	270	< 50	< 10	0.006	110	0.071	2	0.224	2.8	0.3	3	0.240	0.14	1.32	0.43
952203	1.4	< 50	< 40	390	< 20	0.4	< 50	< 100	220	< 50	10	0.004	90	0.032	1	0.261	2.0	0.2	2	0.197	0.12	1.20	0.38
952204	1.1	< 50	< 40	440	< 20	0.4	< 50	< 100	190	< 50	< 10	0.017	100	0.041	1	0.190	2.5	0.2	1	0.078	0.17	1.59	0.44
952205	1.0	< 50	< 40	260	< 20	0.4	< 50	< 100	180	< 50	20	0.007	110	0.002	< 1	0.132	4.3	0.2	2	0.089	0.19	1.41	0.31
952206	0.2	< 50	< 40	240	60	0.4	< 50	< 100	170	< 50	20	0.044	110	0.028	< 1	0.106	8.8	0.7	2	0.033	0.27	2.70	0.16
952207	0.2	< 50	< 40	220	< 20	0.4	< 50	< 100	110	< 50	10	0.017	80	0.031	< 1	0.076	11.4	0.4	2	0.032	0.24	2.02	0.15
952208	0.5	< 50	< 40	290	< 20	0.5	< 50	< 100	150	< 50	10	0.014	100	0.029	< 1	0.120	4.2	0.3	6	0.052	0.25	1.39	0.21
952209	< 0.1	< 50	< 40	220	30	0.5	< 50	< 100	130	< 50	10	0.020	90	0.058	< 1	0.101	17.3	0.5	4	0.022	0.42	2.31	0.11
952210	< 0.1	< 50	< 40	240	< 20	0.2	< 50	< 100	90	< 50	10	0.015	80	0.109	< 1	0.087	16.2	0.5	17	0.026	0.39	2.01	0.11
952211	< 0.1	< 50	< 40	200	< 20	0.4	< 50	< 100	110	< 50	10	0.011	80	0.048	< 1	0.071	12.2	0.5	3	0.019	0.36	1.97	0.09
952212	< 0.1	< 50	< 40	250	< 20	0.3	< 50	< 100	90	< 50	10	0.026	80	0.092	< 1	0.050	15.0	0.3	8	0.018	0.32	1.39	0.06
952213	< 0.1	< 50	< 40	310	< 20	0.3	< 50	< 100	100	< 50	10	0.036	70	0.082	< 1	0.095	14.5	0.4	3	0.016	0.43	1.81	0.10
952214	0.2	< 50	< 40	280	< 20	0.4	< 50	< 100	120	< 50	10	0.012	70	0.018	< 1	0.066	3.4	0.4	3	0.018	0.13	1.26	0.09
952215	0.3	< 50	< 40	330	< 20	0.3	< 50	< 100	70	< 50	10	0.033	80	0.086	< 1	0.065	16.7	0.3	2	0.020	0.32	1.67	0.07
952216	0.3	< 50	< 40	280	< 20	0.3	< 50	< 100	110	< 50	10	0.014	80	0.015	< 1	0.068	6.0	0.3	2	0.033	0.21	1.05	0.16
952217	0.2	< 50	< 40	170	20	0.3	< 50	< 100	80	< 50	< 10	0.033	80	0.006	< 1	0.086	4.6	0.4	2	0.021	0.21	1.90	0.18
952218	0.1	< 50	< 40	230	70	0.4	< 50	< 100	130	< 50	< 10	0.039	60	0.051	< 1	0.048	22.0	0.4	9	0.021	0.44	2.02	0.11
952219	< 0.1	< 50	< 40	280	< 20	0.3	< 50	< 100	90	< 50	10	0.051	60	0.031	< 1	0.098	7.5	0.4	2	0.016	0.28	2.06	0.12
952220	< 0.1	< 50	< 40	240	30	0.2	< 50	< 100	70	< 50	10	0.054	< 50	0.046	< 1	0.095	11.9	0.5	2	0.017	0.32	2.25	0.11
952221	< 0.1	< 50	< 40	340	< 20	0.4	< 50	< 100	130	< 50	10	0.046	60	0.121	< 1	0.155	16.4	0.6	4	0.021	0.49	2.93	0.14
952222	< 0.1	< 50	< 40	280	< 20	0.2	< 50	< 100	60	< 50	10	0.035	60	0.091	< 1	0.150	12.1	0.5	4	0.017	0.26	2.59	0.11
952223	0.1	< 50	< 40	230	< 20	0.1	< 50	< 100	60	< 50	< 10	0.017	< 50	0.078	< 1	0.052	9.0	0.4	5	0.021	0.46	1.78	0.09
952224	0.1	< 50	< 40	380	< 20	0.1	< 50	< 100	80	< 50	10	0.023	< 50	0.095	< 1	0.053	8.8	0.4	3	0.021	0.46	1.69	0.11
952225	< 0.1	< 50	< 40	310	40	0.1	< 50	< 100	70	< 50	10	0.060	< 50	0.086	< 1	0.092	14.1	0.6	3	0.018	0.45	2.34	0.11
952226	< 0.1	< 50	< 40	250	70	0.3	< 50	< 100	140	< 50	20	0.059	< 50	0.095	< 1	0.142	16.6	1.0	4	0.019	0.41	3.98	0.08
952227	< 0.1	< 50	< 40	320	< 20	< 0.1	< 50	< 100	80	< 50	20	0.032	60	0.122	< 1	0.046	18.0	0.5	7	0.022	0.49	2.23	0.07
952228	< 0.1	< 50	< 40	290	< 20	0.2	< 50	< 100	120	< 50	10	0.012	< 50	0.129	< 1	0.097	15.7	0.4	2	0.023	0.37	2.55	0.05
952229	< 0.1	< 50	< 40	300	< 20	0.3	< 50	< 100	110	< 50	10	0.035	50	0.098	< 1	0.130	13.4	0.5	4	0.017	0.39	2.86	0.06
952230	< 0.1	< 50	< 40	240	< 20	0.2	< 50	< 100	70	< 50	10	0.049	60	0.078	< 1	0.082	11.2	0.3	4	0.017	0.28	2.49	0.05
952231	< 0.1	< 50	< 40	290	60	0.2	< 50	< 100	90	< 50	10	0.039	60	0.096	< 1	0.073	9.9	0.4	2	0.021	0.28	1.94	0.06
952232	< 0.1	< 50	< 40	310	< 20	0.1	< 50	< 100	50	< 50	10	0.069	< 50	0.086	< 1	0.064	12.0	0.3	4	0.020	0.34	1.96	0.04
952233	0.4	< 50	< 40	270	< 20	0.5	< 50	< 100	140	< 50	20	0.013	120	0.007	< 1	0.208	3.1	0.6	6	0.061	0.20	1.41	0.20
952234	0.3	< 50	< 40	320	< 20	0.4	< 50	< 100	150	< 50	20	0.014	110	0.014	< 1	0.182	6.2	0.7	2	0.068	0.37	2.01	0.18
952235	0.4	< 50	< 40	180	30	0.4	< 50	< 100	160	< 50	10	0.011	100	0.009	< 1	0.198	3.5	0.3	< 1	0.046	0.22	2.44	0.19
952236	0.3	< 50	< 40	250	< 20	0.4	< 50	< 100	160	< 50	20	0.018	90	0.011	< 1	0.159	5.2	0.4	1	0.041	0.36	2.60	0.16
952237	0.3	< 50	< 40	230	< 20	0.4	< 50	< 100	130	< 50	10	0.015	100	0.007	< 1	0.121	3.0	0.3	1	0.040	0.24	1.78	0.19
952238	0.3	< 50	< 40	380	< 20	0.5	< 50	< 100	160	< 50	20	0.035	120	0.059	< 1	0.153	6.7	0.5	2	0.031	0.68	2.20	0.15
952239	0.3	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	10	0.017	110	0.044	< 1	0.221	10.3	0.5	2	0.030	0.39	2.94	0.12
952240	0.3	< 50	< 40	220	< 20	0.4	< 50	< 100	170	< 50	10	0.014	90	0.016	< 1	0.143	5.4	0.4	2	0.035	0.32	2.45	0.19
952241	0.5	< 50	< 40	320	< 20	0.5	< 50	< 100	270	< 50	10	0.032	110	0.027	< 1	0.216	8.7	0.9	2	0.103	0.83	3.59	0.34

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
952242	0.2	< 50	< 40	310	< 20	0.4	< 50	< 100	150	< 50	20	0.022	110	0.046	< 1	0.143	8.3	0.4	4	0.027	0.48	2.69	0.15
952243	0.1	< 50	< 40	230	< 20	0.4	< 50	< 100	160	< 50	20	0.035	100	0.026	< 1	0.080	4.4	0.7	2	0.017	0.35	1.75	0.24
952244	0.2	< 50	< 40	290	40	0.5	< 50	< 100	140	< 50	20	0.044	130	0.031	< 1	0.171	8.7	0.8	2	0.028	0.42	2.34	0.22
952245	0.2	< 50	< 40	280	< 20	0.4	< 50	< 100	110	< 50	10	0.023	70	0.011	< 1	0.120	7.6	0.6	22	0.022	0.35	2.00	0.16
952246	< 0.1	< 50	< 40	250	< 20	0.2	< 50	< 100	110	< 50	20	0.038	60	0.054	< 1	0.131	11.4	0.8	3	0.017	0.70	2.10	0.22
952247	< 0.1	< 50	< 40	140	< 20	0.3	< 50	< 100	120	< 50	20	0.013	130	0.034	< 1	0.136	5.8	0.7	3	0.039	0.25	2.21	0.10
952248	< 0.1	< 50	< 40	180	< 20	0.6	< 50	< 100	160	< 50	20	0.022	270	0.040	< 1	0.094	9.6	0.9	2	0.042	0.39	3.05	0.10
952249	0.2	< 50	< 40	350	< 20	0.4	< 50	< 100	160	< 50	20	0.040	110	0.016	< 1	0.127	9.4	1.4	2	0.027	0.38	2.33	0.19
952250	0.9	< 50	< 40	360	20	0.4	< 50	< 100	190	< 50	20	0.036	90	0.021	1	0.247	5.3	0.5	1	0.058	0.40	2.00	0.59
952251	0.6	< 50	< 40	430	< 20	0.6	< 50	< 100	200	< 50	20	0.023	110	0.020	< 1	0.159	6.2	0.8	4	0.055	0.29	1.62	0.40
952252	0.3	< 50	< 40	390	< 20	0.4	< 50	< 100	170	< 50	20	0.070	130	0.018	< 1	0.174	11.5	0.9	9	0.035	0.48	2.47	0.23
952253	0.2	< 50	< 40	410	100	0.5	< 50	< 100	180	< 50	20	0.042	120	0.046	< 1	0.150	11.4	1.0	2	0.030	0.49	2.65	0.20
952254	0.2	< 50	< 40	280	< 20	0.4	< 50	< 100	130	< 50	10	0.022	60	0.011	< 1	0.127	6.3	0.4	4	0.025	0.21	1.71	0.13
952255	0.1	< 50	< 40	260	40	0.4	< 50	< 100	160	< 50	20	0.051	60	0.029	< 1	0.246	17.9	1.1	< 1	0.017	0.57	2.58	0.20
952256	0.5	< 50	< 40	420	< 20	0.4	< 50	< 100	140	< 50	10	0.021	70	0.028	< 1	0.093	8.3	0.4	< 1	0.023	0.31	2.21	0.15
952257	0.4	< 50	< 40	370	50	0.5	< 50	< 100	140	< 50	10	0.048	90	0.049	< 1	0.107	13.7	0.5	< 1	0.031	0.34	2.34	0.14
952258	0.5	< 50	< 40	370	< 20	0.4	< 50	< 100	160	< 50	10	0.009	80	0.062	< 1	0.084	3.3	0.2	< 1	0.055	0.31	1.25	0.22
952259	< 0.1	< 50	< 40	390	< 20	0.2	< 50	< 100	90	< 50	20	0.019	60	0.105	< 1	0.066	8.9	0.4	< 1	0.024	0.25	2.20	0.10
952260	< 0.1	< 50	< 40	400	< 20	0.3	< 50	< 100	100	< 50	10	0.018	60	0.119	< 1	0.074	10.1	0.4	< 1	0.024	0.28	2.48	0.10
952261	0.2	< 50	< 40	320	< 20	0.3	< 50	< 100	130	< 50	10	0.025	60	0.036	< 1	0.074	10.5	0.5	< 1	0.028	0.35	2.01	0.13
952262	< 0.1	< 50	< 40	380	< 20	0.3	< 50	< 100	100	< 50	10	0.037	< 50	0.128	< 1	0.103	13.6	0.6	1	0.017	0.42	2.77	0.08
952263	< 0.1	< 50	< 40	410	< 20	0.1	< 50	< 100	60	< 50	20	0.029	< 50	0.113	< 1	0.049	10.4	0.4	< 1	0.022	0.37	2.08	0.08
952264	< 0.1	< 50	< 40	390	60	0.2	< 50	< 100	70	< 50	20	0.037	< 50	0.062	< 1	0.056	8.6	0.7	< 1	0.018	0.46	1.92	0.07
952265	< 0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	10	0.026	60	0.078	< 1	0.114	8.2	0.4	< 1	0.017	0.26	1.97	0.05
952266	< 0.1	< 50	< 40	430	< 20	0.1	< 50	< 100	40	< 50	10	0.016	< 50	0.084	< 1	0.030	2.6	0.2	6	0.019	0.18	1.04	0.03
952267	< 0.1	< 50	< 40	420	100	0.4	< 50	< 100	100	< 50	20	0.039	70	0.091	< 1	0.026	5.5	0.3	< 1	0.018	0.17	1.16	0.04
952268	< 0.1	< 50	< 40	460	< 20	0.3	< 50	< 100	90	< 50	20	0.051	< 50	0.119	< 1	0.051	7.2	0.3	< 1	0.018	0.42	1.79	0.06
952269	< 0.1	< 50	< 40	330	< 20	0.4	< 50	< 100	110	< 50	60	0.204	80	0.074	< 1	0.090	11.3	4.0	< 1	0.019	0.45	2.22	0.07
952270	0.2	< 50	< 40	200	< 20	0.4	< 50	< 100	150	< 50	10	0.017	70	0.024	< 1	0.173	5.8	0.7	< 1	0.017	0.31	1.90	0.10
952271	0.1	< 50	< 40	160	< 20	0.2	< 50	< 100	140	< 50	10	0.015	60	0.013	< 1	0.224	2.6	0.7	< 1	0.018	0.12	1.76	0.14
952272	0.1	< 50	< 40	220	< 20	0.6	< 50	< 100	180	< 50	20	0.017	150	0.029	< 1	0.220	10.8	0.9	< 1	0.022	0.39	2.50	0.15
952273	< 0.1	< 50	< 40	370	< 20	0.4	< 50	< 100	250	< 50	30	0.035	90	0.017	< 1	0.117	12.1	1.0	2	0.016	0.73	2.63	0.15
952274	0.1	< 50	< 40	160	< 20	0.3	< 50	< 100	160	< 50	20	0.021	70	0.009	< 1	0.117	14.5	0.7	< 1	0.014	0.50	2.20	0.17
952275	< 0.1	< 50	< 40	240	20	0.3	< 50	< 100	150	< 50	20	0.032	< 50	0.007	< 1	0.225	5.0	0.5	1	0.018	0.17	1.28	0.16
952276	< 0.1	< 50	< 40	300	40	0.4	< 50	< 100	150	< 50	10	0.036	70	0.004	< 1	0.148	8.3	0.7	< 1	0.017	0.26	1.44	0.20
952277	0.1	< 50	< 40	210	< 20	0.4	< 50	< 100	130	< 50	10	0.020	120	0.006	< 1	0.159	6.3	0.6	< 1	0.017	0.18	1.16	0.18
952278	< 0.1	< 50	< 40	240	< 20	0.5	< 50	< 100	150	< 50	10	0.037	120	0.016	< 1	0.086	25.1	0.5	< 1	0.018	0.21	2.08	0.08
952279	< 0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	190	< 50	< 10	0.014	90	0.014	< 1	0.112	5.5	0.3	< 1	0.021	0.32	2.31	0.09
952280	< 0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	170	< 50	10	0.018	100	0.024	< 1	0.096	10.8	0.4	< 1	0.022	0.40	2.80	0.09
952281	< 0.1	< 50	< 40	260	< 20	0.4	< 50	< 100	120	< 50	10	0.017	90	0.048	< 1	0.099	10.6	0.4	< 1	0.021	0.36	2.92	0.07
952282	< 0.1	< 50	< 40	220	< 20	0.4	< 50	< 100	160	< 50	10	0.012	80	0.028	< 1	0.132	4.2	0.2	< 1	0.020	0.29	2.22	0.08
952283	0.2	< 50	< 40	390	< 20	0.6	< 50	< 100	210	< 50	20	0.025	100	0.067	< 1	0.422	9.1	0.6	< 1	0.023	0.58	3.21	0.09

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
952284	0.7	< 50	< 40	570	< 20	0.7	< 50	< 100	260	< 50	20	0.056	100	0.112	< 1	0.259	9.9	0.9	< 1	0.054	0.92	3.02	0.35
952285	0.1	< 50	< 40	520	< 20	0.3	< 50	< 100	140	< 50	20	0.071	70	0.074	< 1	0.126	13.8	0.8	< 1	0.018	0.73	2.96	0.09
952286	< 0.1	< 50	< 40	570	< 20	0.4	< 50	< 100	160	< 50	20	0.033	100	0.106	< 1	0.109	9.8	0.9	< 1	0.022	0.65	2.87	0.10
952287	< 0.1	< 50	< 40	350	< 20	0.4	< 50	< 100	150	< 50	20	0.019	100	0.066	< 1	0.090	11.7	0.9	< 1	0.020	0.41	3.33	0.08
952288	< 0.1	< 50	< 40	430	< 20	0.5	< 50	< 100	230	< 50	40	0.033	80	0.084	< 1	0.108	14.3	1.1	< 1	0.041	0.97	3.85	0.12
952289	< 0.1	< 50	< 40	330	60	0.4	< 50	< 100	150	< 50	20	0.047	80	0.030	< 1	0.209	10.4	0.7	< 1	0.019	0.64	2.78	0.09
952290	0.1	< 50	< 40	330	< 20	0.5	< 50	< 100	180	< 50	20	0.023	90	0.018	< 1	0.125	5.4	0.4	< 1	0.019	0.36	2.69	0.08
952291	< 0.1	< 50	< 40	310	< 20	0.5	< 50	< 100	190	< 50	20	0.035	120	0.034	< 1	0.097	8.5	0.5	< 1	0.020	0.52	3.14	0.09
952292	0.8	< 50	< 40	360	< 20	0.5	< 50	< 100	220	< 50	30	0.064	150	0.012	< 1	0.232	13.2	1.0	< 1	0.071	0.63	2.93	0.43
952293	< 0.1	< 50	< 40	360	< 20	0.4	< 50	< 100	150	< 50	30	0.150	110	0.022	< 1	0.145	10.2	1.2	2	0.019	0.78	2.15	0.19
952294	0.2	< 50	< 40	490	< 20	0.3	< 50	< 100	140	< 50	30	0.064	130	0.053	< 1	0.135	7.7	0.8	< 1	0.023	0.58	1.84	0.13
952295	0.1	< 50	< 40	340	< 20	0.2	< 50	< 100	130	< 50	40	0.244	100	0.026	< 1	0.162	13.3	1.6	< 1	0.022	0.97	2.93	0.19
952296	0.3	< 50	< 40	510	< 20	0.6	< 50	< 100	210	< 50	40	0.102	130	0.063	< 1	0.210	9.3	1.3	1	0.030	0.83	2.39	0.24
952297	0.2	< 50	< 40	460	< 20	0.4	< 50	< 100	210	< 50	30	0.117	110	0.063	< 1	0.188	13.2	1.1	< 1	0.026	1.02	2.66	0.25
952298	< 0.1	< 50	< 40	590	< 20	0.5	< 50	< 100	250	< 50	40	0.135	140	0.029	< 1	0.129	13.2	1.3	< 1	0.017	1.10	2.61	0.15
952299	0.2	< 50	< 40	390	30	0.4	< 50	< 100	230	< 50	20	0.063	100	0.013	< 1	0.221	13.0	1.2	< 1	0.017	0.70	2.50	0.09
745926	< 0.1	< 50	< 40	300	< 20	0.2	< 50	< 100	70	< 50	20	0.006	< 50	0.163	< 1	0.056	9.3	0.3	8	0.132	0.63	1.51	0.12
745927	0.2	< 50	< 40	630	< 20	0.2	< 50	< 100	110	< 50	30	0.012	90	0.088	< 1	0.186	31.0	1.6	< 1	0.247	2.40	5.36	0.25
952300	0.2	< 50	< 40	380	120	0.4	< 50	< 100	200	< 50	20	0.057	80	0.022	< 1	0.159	7.9	0.9	< 1	0.022	0.46	2.99	0.08
952301	0.1	< 50	< 40	320	70	0.3	< 50	< 100	150	< 50	20	0.030	< 50	0.019	< 1	0.150	7.9	0.9	< 1	0.026	0.45	2.94	0.08
952302	0.4	< 50	< 40	410	< 20	0.5	< 50	< 100	200	< 50	30	0.109	110	0.072	< 1	0.197	9.2	1.6	< 1	0.032	0.69	3.16	0.25
952303	0.7	< 50	< 40	370	< 20	0.6	< 50	< 100	220	< 50	20	0.050	100	0.058	< 1	0.241	8.2	0.8	< 1	0.032	0.57	3.11	0.34
952304	1.0	< 50	< 40	230	< 20	0.5	< 50	< 100	190	< 50	10	0.021	70	0.073	1	0.127	7.4	0.3	4	0.066	0.51	2.37	0.41
952305	0.1	< 50	< 40	390	40	0.3	< 50	< 100	150	< 50	20	0.047	60	0.054	< 1	0.103	10.3	0.7	< 1	0.019	0.78	2.18	0.10
952306	< 0.1	< 50	< 40	290	< 20	0.5	< 50	< 100	180	< 50	20	0.018	120	0.069	< 1	0.153	6.4	0.4	1	0.018	0.33	2.78	0.07
952307	0.2	< 50	< 40	280	80	0.6	< 50	< 100	240	< 50	30	0.051	100	0.132	< 1	0.132	14.9	1.0	1	0.014	1.18	2.38	0.22
952308	< 0.1	< 50	< 40	400	< 20	0.4	< 50	< 100	180	< 50	40	0.120	110	0.117	< 1	0.158	12.6	1.3	2	0.017	0.84	2.30	0.21
952309	0.2	< 50	< 40	370	< 20	0.5	< 50	< 100	200	< 50	20	0.048	110	0.104	< 1	0.211	9.9	0.7	3	0.018	0.76	1.90	0.19
952310	< 0.1	< 50	< 40	310	30	0.2	< 50	< 100	90	< 50	40	0.168	< 50	0.059	< 1	0.178	6.5	1.2	< 1	0.019	0.49	1.73	0.37
952311	0.3	< 50	< 40	360	< 20	0.3	< 50	< 100	90	< 50	20	0.233	< 50	0.062	< 1	0.123	5.1	0.8	< 1	0.021	0.53	1.55	0.26
952312	0.2	< 50	< 40	300	< 20	0.3	< 50	< 100	130	< 50	20	0.070	100	0.043	< 1	0.194	12.8	1.0	3	0.038	0.66	2.62	0.26
952313	< 0.1	< 50	< 40	220	< 20	0.2	< 50	< 100	120	< 50	10	0.015	< 50	0.008	< 1	0.165	6.1	0.6	1	0.022	0.21	2.21	0.12
952314	< 0.1	< 50	< 40	410	20	0.5	< 50	< 100	180	< 50	20	0.070	100	0.052	< 1	0.133	12.8	0.9	< 1	0.021	0.70	2.75	0.18
952315	< 0.1	< 50	< 40	140	< 20	0.4	< 50	< 100	160	< 50	20	0.017	80	0.004	< 1	0.137	10.2	0.9	< 1	0.017	0.60	1.96	0.30
952316	< 0.1	< 50	< 40	290	30	0.4	< 50	< 100	150	< 50	20	0.037	70	0.011	< 1	0.134	11.7	0.8	< 1	0.017	0.59	1.92	0.22
952317	0.2	< 50	< 40	300	70	0.4	< 50	< 100	140	< 50	20	0.038	80	0.027	< 1	0.125	9.3	0.8	1	0.032	0.53	2.49	0.14
952318	0.1	< 50	< 40	350	< 20	0.5	< 50	< 100	150	< 50	20	0.039	70	0.018	< 1	0.123	11.4	0.7	2	0.020	0.53	2.12	0.09
952319	0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	140	< 50	30	0.057	80	0.006	< 1	0.176	12.9	0.9	< 1	0.020	0.69	2.88	0.26
952320	< 0.1	< 50	< 40	300	50	0.3	< 50	< 100	100	< 50	20	0.049	< 50	0.010	< 1	0.139	10.8	0.9	< 1	0.018	0.55	2.39	0.23
952321	< 0.1	< 50	< 40	280	< 20	0.2	< 50	< 100	80	< 50	20	0.021	50	0.008	< 1	0.093	9.4	0.7	< 1	0.016	0.43	1.63	0.17
952322	< 0.1	< 50	< 40	280	< 20	0.2	< 50	< 100	70	< 50	40	0.037	80	0.009	< 1	0.120	9.3	0.8	< 1	0.020	0.55	1.55	0.31
952323	< 0.1	< 50	< 40	290	< 20	0.5	< 50	< 100	140	< 50	40	0.033	100	0.018	< 1	0.150	8.2	0.9	1	0.017	0.50	1.52	0.29

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	TI	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
952324	< 0.1	< 50	< 40	220	< 20	0.3	< 50	< 100	120	< 50	20	0.026	60	0.004	< 1	0.153	6.8	0.8	< 1	0.013	0.31	1.40	0.16
952325	< 0.1	< 50	< 40	260	< 20	0.4	< 50	< 100	140	< 50	10	0.034	60	0.011	< 1	0.198	13.4	0.5	< 1	0.016	0.39	2.03	0.12
952326	< 0.1	< 50	< 40	280	< 20	0.3	< 50	< 100	110	< 50	10	0.024	50	0.020	< 1	0.093	8.0	0.3	< 1	0.016	0.44	2.53	0.11
952327	< 0.1	< 50	< 40	250	50	0.4	< 50	< 100	130	< 50	10	0.033	70	0.012	< 1	0.139	11.4	0.6	< 1	0.014	0.54	2.18	0.16
952328	< 0.1	< 50	< 40	220	< 20	0.2	< 50	< 100	100	< 50	10	0.013	< 50	0.015	< 1	0.068	4.8	0.3	< 1	0.018	0.25	2.19	0.10
952329	< 0.1	< 50	< 40	200	20	0.4	< 50	< 100	120	< 50	10	0.021	60	0.007	< 1	0.152	7.2	0.6	< 1	0.017	0.21	1.78	0.15
952330	< 0.1	< 50	< 40	290	30	0.2	< 50	< 100	80	< 50	20	0.023	60	0.013	< 1	0.093	11.0	0.7	< 1	0.018	0.56	2.03	0.22
952331	< 0.1	< 50	< 40	200	< 20	0.3	< 50	< 100	150	< 50	10	0.019	50	0.012	< 1	0.335	3.7	0.5	< 1	0.017	0.14	2.04	0.20
952332	< 0.1	< 50	< 40	230	< 20	0.3	< 50	< 100	110	< 50	10	0.016	80	0.012	< 1	0.129	11.1	0.4	< 1	0.018	0.38	2.52	0.11
952333	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	140	< 50	10	0.014	100	0.009	< 1	0.118	5.3	0.3	< 1	0.021	0.23	2.14	0.16
952334	< 0.1	< 50	< 40	260	< 20	0.4	< 50	< 100	200	< 50	10	0.043	80	0.015	< 1	0.144	11.6	0.7	< 1	0.018	0.73	2.42	0.15
952335	0.1	< 50	< 40	220	< 20	0.5	< 50	< 100	160	< 50	10	0.066	90	0.012	< 1	0.152	9.9	0.6	< 1	0.016	0.46	2.12	0.15
952336	< 0.1	< 50	< 40	190	< 20	0.4	< 50	< 100	140	< 50	20	0.065	230	0.008	< 1	0.150	12.4	1.0	< 1	0.033	0.61	2.81	0.19
952337	0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	240	< 50	10	0.032	80	0.018	< 1	0.099	10.5	0.6	2	0.020	0.83	2.29	0.09
952338	< 0.1	< 50	< 40	330	60	0.2	< 50	< 100	120	< 50	10	0.065	< 50	0.022	< 1	0.042	15.5	0.5	1	0.021	1.09	2.69	0.10
952339	< 0.1	< 50	< 40	280	< 20	0.3	< 50	< 100	150	< 50	20	0.100	60	0.018	< 1	0.093	15.7	1.0	1	0.022	1.71	3.10	0.16
952340	< 0.1	< 50	< 40	260	< 20	0.2	< 50	< 100	150	< 50	40	0.129	< 50	0.038	< 1	0.084	17.5	1.1	< 1	0.020	1.80	2.56	0.17
952341	0.1	< 50	< 40	250	20	0.3	< 50	< 100	160	< 50	40	0.169	< 50	0.022	< 1	0.100	15.5	0.8	1	0.018	1.56	2.24	0.14
952342	< 0.1	< 50	< 40	320	< 20	0.2	< 50	< 100	70	< 50	10	0.017	60	0.033	< 1	0.091	9.1	0.3	< 1	0.019	0.61	2.32	0.18
952343	< 0.1	< 50	< 40	210	< 20	0.2	< 50	< 100	100	< 50	10	0.016	80	0.019	< 1	0.076	6.7	0.4	< 1	0.020	0.36	2.93	0.12
952344	< 0.1	< 50	< 40	210	< 20	0.3	< 50	< 100	110	< 50	10	0.021	60	0.009	< 1	0.084	12.1	0.3	< 1	0.016	0.70	2.69	0.15
952345	< 0.1	< 50	< 40	270	< 20	0.4	< 50	< 100	210	< 50	20	0.100	90	0.039	< 1	0.127	22.9	0.9	< 1	0.028	1.79	3.17	0.14
952346	< 0.1	< 50	< 40	190	< 20	0.2	< 50	< 100	90	< 50	20	0.028	50	0.012	< 1	0.072	17.5	0.6	< 1	0.020	0.87	3.09	0.21
952347	< 0.1	< 50	< 40	200	< 20	0.2	< 50	< 100	150	< 50	20	0.017	< 50	0.022	< 1	0.111	15.6	0.9	1	0.018	1.04	2.45	0.20
952348	< 0.1	< 50	< 40	120	50	0.2	< 50	< 100	90	< 50	20	0.187	< 50	0.004	< 1	0.110	12.7	0.7	< 1	0.017	0.47	2.30	0.23
952349	< 0.1	< 50	< 40	130	< 20	0.2	< 50	< 100	150	< 50	10	0.022	< 50	0.008	< 1	0.227	4.0	0.5	< 1	0.016	0.15	1.61	0.21
952350	< 0.1	< 50	< 40	140	30	0.3	< 50	< 100	210	< 50	10	0.088	< 50	0.024	< 1	0.115	24.7	0.7	1	0.020	2.22	3.28	0.25
952351	< 0.1	< 50	< 40	160	< 20	0.4	< 50	< 100	140	< 50	20	0.026	70	0.006	< 1	0.125	7.9	1.0	1	0.017	0.41	1.72	0.19
952352	< 0.1	< 50	< 40	220	< 20	0.2	< 50	< 100	150	< 50	10	0.023	< 50	0.019	< 1	0.094	18.5	0.4	1	0.020	1.14	2.75	0.12
952353	< 0.1	< 50	< 40	210	< 20	0.4	< 50	< 100	170	< 50	20	0.024	60	0.019	< 1	0.137	14.8	0.9	< 1	0.021	1.07	2.60	0.23
952354	< 0.1	< 50	< 40	250	< 20	0.5	< 50	< 100	200	< 50	20	0.026	70	0.045	< 1	0.128	11.3	0.7	3	0.020	0.95	1.84	0.22
952355	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	90	< 50	20	0.017	80	0.011	< 1	0.093	6.8	0.4	< 1	0.019	0.38	2.73	0.08
952356	< 0.1	< 50	< 40	330	< 20	0.1	< 50	< 100	90	< 50	10	0.014	70	0.052	< 1	0.078	7.0	0.3	3	0.019	0.41	2.50	0.06
952357	< 0.1	< 50	< 40	270	< 20	< 0.1	< 50	< 100	50	< 50	20	0.007	140	0.071	< 1	0.030	2.1	0.2	< 1	0.019	0.21	2.21	0.07
952358	< 0.1	< 50	< 40	400	< 20	0.2	< 50	< 100	90	< 50	20	0.021	80	0.062	< 1	0.080	10.5	0.4	< 1	0.019	0.55	2.54	0.07
952359	0.2	< 50	< 40	50	< 20	0.4	< 50	< 100	150	< 50	50	0.762	90	0.001	< 1	0.110	3.4	1.1	< 1	0.014	0.16	1.18	0.32
952360	< 0.1	< 50	< 40	160	90	0.3	< 50	< 100	90	< 50	50	0.097	120	0.001	< 1	0.097	8.6	1.2	< 1	0.017	0.41	1.90	0.24
952361	< 0.1	< 50	< 40	290	40	0.2	< 50	< 100	80	< 50	20	0.065	60	0.007	< 1	0.078	9.7	0.7	< 1	0.021	0.55	2.01	0.19
952362	< 0.1	< 50	< 40	200	< 20	0.2	< 50	< 100	100	< 50	30	0.140	60	0.001	< 1	0.075	8.3	1.0	1	0.019	0.36	2.09	0.22
952363	0.1	< 50	< 40	210	50	0.4	< 50	< 100	120	< 50	10	0.055	70	0.002	< 1	0.120	6.4	0.7	< 1	0.018	0.31	1.54	0.23
952364	< 0.1	< 50	< 40	280	< 20	0.2	< 50	< 100	90	< 50	20	0.023	100	0.014	< 1	0.083	12.6	0.5	< 1	0.026	0.43	2.44	0.10
745928	< 0.1	< 50	< 40	280	< 20	0.2	< 50	< 100	80	< 50	20	0.005	60	0.173	< 1	0.054	9.8	0.2	12	0.120	0.67	1.50	0.11

Results**Activation Laboratories Ltd.****Report: A17-07494**

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	AR-MS																					
745929	0.5	< 50	< 40	250	< 20	0.3	< 50	< 100	80	< 50	20	0.007	60	0.108	< 1	0.059	3.1	0.3	4	0.097	0.66	1.20	0.18

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
952200	0.57	0.16	0.9	47	13	358	5.37	4.3	8.1	27.0	134	6.35	< 0.1	6.7	13.1	42.5	4.42	0.5	0.8	2.49	9.93	0.04	0.49
952201	0.41	0.14	3.5	34	3	1390	7.65	10.5	2.7	24.2	164	5.10	< 0.1	7.2	11.7	62.5	8.20	0.9	0.2	1.47	12.5	0.04	0.41
952202	2.73	0.03	5.2	89	4	150	9.76	0.8	1.6	75.5	35.2	7.43	0.1	17.3	13.8	67.6	2.47	2.5	0.5	4.02	8.41	0.12	0.48
952203	0.86	0.03	4.9	47	2	111	7.55	0.4	1.1	39.7	24.7	5.26	0.1	16.4	13.2	135	3.78	1.3	0.3	5.65	6.89	0.06	0.35
952204	4.90	0.05	4.5	51	3	177	7.21	0.8	0.9	148	108	6.18	0.1	15.6	11.3	221	3.19	4.0	0.3	4.68	2.02	0.40	0.39
952205	1.97	0.07	1.2	29	2	287	4.72	1.4	1.0	27.5	42.2	4.42	< 0.1	12.8	9.2	46.0	2.88	0.5	0.3	3.73	0.711	0.24	0.76
952206	1.18	0.18	3.2	64	4	446	3.69	4.8	2.7	49.0	287	7.83	< 0.1	10.9	15.1	81.7	7.10	0.5	0.6	6.12	2.21	0.29	1.51
952207	0.51	0.12	1.1	58	10	235	3.25	2.8	3.9	15.3	103	8.21	< 0.1	7.0	14.9	49.5	3.45	0.6	2.5	1.66	0.842	0.09	1.19
952208	0.86	0.20	0.9	41	6	414	3.38	2.0	3.7	34.4	82.7	4.31	< 0.1	7.5	9.1	101	3.27	0.6	0.5	4.49	1.27	0.21	1.04
952209	0.23	0.23	1.2	56	17	440	2.98	5.2	10.7	13.9	138	7.82	< 0.1	7.4	15.0	30.0	5.14	0.6	1.4	1.11	10.1	0.03	1.00
952210	0.33	0.21	3.6	67	20	287	3.26	5.1	12.6	9.95	116	8.53	< 0.1	6.9	16.8	30.2	4.61	3.6	2.8	1.46	0.160	0.07	1.28
952211	0.16	0.22	1.3	59	16	317	2.70	4.9	10.3	9.27	85.8	7.37	< 0.1	6.2	12.6	25.8	5.03	0.6	1.4	0.71	13.0	0.03	0.93
952212	0.14	0.25	2.7	53	17	675	2.19	4.7	8.4	7.32	181	7.43	< 0.1	2.9	11.0	28.4	4.39	0.6	1.0	0.68	3.88	0.02	1.16
952213	0.50	0.38	3.2	67	11	538	2.92	5.9	6.7	8.11	183	7.42	< 0.1	3.5	12.5	48.0	5.04	0.6	1.2	0.87	2.06	0.03	0.96
952214	1.10	0.29	0.5	51	9	727	2.22	3.0	3.0	10.6	83.6	6.44	< 0.1	2.8	10.9	39.7	3.51	0.4	0.4	1.44	0.622	0.03	0.81
952215	0.44	0.30	2.5	53	10	365	2.54	4.0	4.8	7.99	237	9.17	< 0.1	3.4	13.3	44.7	3.92	0.6	1.8	0.98	1.45	0.03	1.46
952216	0.50	0.19	1.1	38	5	190	2.05	1.9	2.1	5.85	84.6	5.33	< 0.1	3.8	11.5	67.3	2.35	0.2	1.0	1.34	2.41	0.02	0.67
952217	1.81	0.21	1.6	35	3	369	4.43	2.1	1.8	40.7	259	4.91	< 0.1	17.5	10.8	76.5	3.40	0.2	0.5	4.58	2.39	0.11	0.42
952218	0.62	0.38	2.3	61	15	466	3.10	4.7	11.4	22.9	313	6.13	< 0.1	6.8	12.0	57.4	2.94	0.7	0.8	2.25	1.35	0.03	0.51
952219	0.86	0.35	2.5	39	15	911	2.34	6.2	4.5	32.3	389	6.34	< 0.1	3.2	17.5	46.9	4.05	0.2	0.9	1.71	1.98	0.02	0.67
952220	0.38	0.30	3.0	48	14	554	2.39	5.8	5.9	15.1	421	7.31	< 0.1	3.2	19.4	42.5	3.51	0.6	1.0	1.23	0.710	0.03	0.71
952221	0.43	0.45	4.0	73	11	622	3.74	6.8	5.7	34.8	390	9.06	< 0.1	7.5	20.8	65.8	5.51	1.8	1.3	1.67	0.157	0.03	0.69
952222	0.38	0.42	4.0	52	11	407	3.01	4.8	4.5	27.3	322	8.80	< 0.1	10.5	19.1	73.8	4.47	1.0	1.8	1.08	10.7	0.03	1.05
952223	0.54	0.26	3.2	49	17	479	3.58	5.7	11.7	39.5	158	5.21	< 0.1	6.6	7.9	59.4	4.21	1.5	0.8	2.23	0.882	0.04	0.46
952224	0.43	0.38	3.2	52	16	499	3.15	6.3	11.0	45.5	163	4.96	< 0.1	5.5	8.3	64.3	4.84	2.7	0.4	1.88	0.781	0.04	0.40
952225	0.37	0.32	3.4	66	17	558	3.52	7.0	9.8	25.6	406	8.33	< 0.1	6.2	16.8	45.3	3.82	3.3	0.7	1.81	0.719	0.03	0.78
952226	0.33	0.26	4.1	110	26	518	7.25	9.3	12.6	37.5	410	10.0	< 0.1	10.2	12.2	37.5	5.39	5.3	1.7	3.28	3.33	0.06	1.00
952227	0.22	0.36	3.7	127	22	530	4.76	10.0	12.8	20.3	204	10.3	< 0.1	6.8	11.3	34.7	4.77	0.8	1.7	1.01	3.51	0.03	0.95
952228	0.20	0.23	4.0	141	24	290	4.88	6.0	6.8	13.5	95.8	12.6	< 0.1	8.4	8.7	28.2	3.46	0.8	1.6	1.04	3.96	0.02	0.97
952229	0.23	0.27	3.4	61	17	581	3.11	5.4	8.0	19.4	245	5.91	< 0.1	6.8	11.1	31.7	4.23	4.3	1.7	1.68	3.73	0.04	0.57
952230	0.24	0.22	2.7	59	14	505	2.47	6.2	6.2	11.6	333	8.71	< 0.1	4.0	11.6	25.9	3.11	2.4	2.9	1.79	4.18	0.03	1.19
952231	0.14	0.24	3.3	72	20	336	2.79	5.2	8.7	9.94	249	7.49	< 0.1	4.4	12.3	26.8	3.53	0.5	1.0	0.97	13.3	0.02	0.88
952232	0.22	0.36	2.8	64	13	693	2.63	5.6	5.5	7.99	472	8.71	< 0.1	1.9	9.0	48.5	3.21	1.3	1.3	1.01	4.13	0.03	0.88
952233	0.15	0.06	3.3	25	4	479	5.36	4.6	2.9	14.9	94.5	3.48	< 0.1	7.5	9.0	46.2	10.1	0.6	0.4	1.85	6.26	0.03	0.48
952234	0.20	0.07	3.3	30	4	1040	4.80	6.8	3.1	20.1	96.9	4.66	< 0.1	6.9	9.3	52.4	10.2	0.2	0.3	1.65	3.26	0.04	0.45
952235	0.53	0.10	0.7	54	8	363	5.50	2.3	3.0	22.9	83.2	9.15	< 0.1	5.2	13.6	36.5	3.45	0.6	1.1	2.39	0.953	0.04	0.67
952236	0.69	0.34	0.9	57	8	430	5.02	3.1	3.9	35.7	128	9.29	< 0.1	5.7	16.0	54.2	4.77	1.5	0.8	2.90	0.402	0.06	0.81
952237	0.81	0.14	0.6	44	7	304	3.36	2.0	2.9	29.2	116	7.22	< 0.1	4.3	16.9	40.8	3.38	0.4	0.5	2.61	0.646	0.04	0.66
952238	1.05	0.36	3.6	45	4	1480	4.40	10.3	2.9	71.1	255	6.09	< 0.1	10.5	7.7	57.5	7.59	0.8	0.3	3.27	1.77	0.07	0.34
952239	0.89	0.12	1.7	57	9	599	6.08	3.0	3.8	47.6	122	8.31	< 0.1	9.5	11.5	34.2	3.85	0.7	2.8	3.70	3.56	0.07	0.77
952240	1.04	0.17	0.8	64	7	687	4.61	2.3	2.6	39.7	99.2	8.58	< 0.1	7.0	13.6	44.6	3.08	0.6	0.3	4.07	1.43	0.06	0.74
952241	2.14	0.14	5.2	74	4	904	7.40	4.2	2.2	33.4	233	9.02	< 0.1	24.8	14.7	124	5.45	0.9	0.3	9.59	0.500	0.16	0.64

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
952242	0.84	0.35	2.0	58	7	782	4.17	4.0	3.3	46.9	151	8.42	< 0.1	8.5	15.5	63.0	4.47	0.5	0.8	5.29	7.06	0.07	0.83
952243	0.59	0.29	1.0	54	6	2310	3.17	9.5	2.6	72.0	224	4.86	< 0.1	2.0	19.3	34.8	6.51	0.4	0.4	2.92	4.03	0.02	0.57
952244	1.15	0.36	1.8	51	13	3040	4.67	20.8	7.2	79.2	304	7.63	< 0.1	6.4	16.9	51.7	7.65	0.9	1.2	4.24	4.56	0.04	1.09
952245	0.55	0.24	0.7	42	13	672	2.85	5.3	7.7	54.8	148	5.35	< 0.1	3.8	12.7	36.5	4.90	0.7	0.4	2.13	0.829	0.02	0.47
952246	0.19	0.37	2.8	52	11	1980	3.66	12.3	9.2	37.6	274	5.39	< 0.1	4.6	14.0	31.3	10.0	0.3	0.2	1.34	2.97	0.02	0.45
952247	0.34	0.21	0.6	49	11	1080	3.87	4.6	4.8	14.9	84.9	11.9	< 0.1	3.6	12.6	26.9	7.03	2.0	8.8	1.52	0.331	0.04	3.52
952248	0.28	0.22	1.3	59	14	996	3.48	5.7	7.6	43.3	150	9.61	< 0.1	4.1	11.9	31.6	9.11	1.9	4.3	1.97	0.713	0.05	2.30
952249	1.26	0.64	2.5	44	6	2350	3.94	12.9	4.4	128	310	6.70	< 0.1	5.8	18.1	96.2	12.7	0.3	0.3	8.80	0.507	0.05	0.71
952250	9.11	0.36	2.8	39	3	828	6.68	3.6	2.2	334	262	5.26	< 0.1	7.5	16.8	95.2	7.10	0.4	0.2	14.3	6.68	0.08	0.41
952251	2.28	0.37	2.5	33	6	2220	4.79	12.5	4.5	162	159	4.06	< 0.1	6.6	10.8	161	7.02	0.3	0.2	30.0	4.53	0.03	0.35
952252	1.06	0.36	2.3	51	11	2040	4.06	13.0	8.7	73.7	532	7.28	< 0.1	7.1	15.1	72.8	8.11	1.3	0.7	4.85	1.46	0.05	0.84
952253	0.83	0.59	2.5	55	12	2670	4.15	14.4	7.9	163	309	7.12	< 0.1	5.7	16.5	88.3	8.02	1.5	0.7	5.95	5.24	0.05	0.87
952254	0.64	0.21	0.5	42	6	668	2.67	3.4	2.8	24.3	168	6.51	< 0.1	3.9	13.0	53.9	3.57	1.1	0.8	3.49	4.75	0.04	0.91
952255	0.47	0.45	2.0	79	13	3250	3.77	16.3	8.9	28.0	384	9.85	< 0.1	4.9	22.3	53.4	6.57	1.2	0.5	2.79	0.429	0.05	0.75
952256	2.09	0.18	2.6	47	8	340	2.95	3.0	4.3	27.0	143	5.81	< 0.1	8.9	14.5	106	3.17	0.3	0.6	6.17	0.808	0.09	0.67
952257	1.86	0.31	3.0	53	9	442	3.35	3.7	4.0	24.7	368	8.03	< 0.1	7.6	17.6	71.9	3.57	0.7	1.5	4.05	1.89	0.15	1.12
952258	1.73	0.21	2.7	47	8	330	3.46	2.4	3.9	22.7	62.9	4.61	< 0.1	12.7	7.8	124	3.06	2.3	0.5	4.12	3.26	0.22	0.74
952259	0.51	0.60	3.4	63	9	464	2.86	3.1	3.1	20.5	140	9.96	< 0.1	4.9	15.5	81.0	4.05	0.7	1.9	3.38	1.97	0.05	1.04
952260	0.72	0.63	3.5	60	8	484	3.19	3.0	3.1	23.1	127	9.88	< 0.1	6.4	17.3	86.1	4.14	1.0	1.9	3.83	0.950	0.05	1.45
952261	1.26	0.46	1.5	58	14	442	3.08	5.1	7.9	27.0	175	6.55	< 0.1	9.0	13.4	84.8	3.07	0.5	0.8	4.42	0.199	0.07	0.69
952262	0.53	0.70	3.4	61	10	680	3.38	5.8	4.3	30.7	277	8.49	< 0.1	7.1	13.5	89.1	4.63	0.5	1.3	7.73	3.57	0.04	0.58
952263	0.59	0.47	2.9	64	10	577	3.21	4.9	4.8	50.5	206	8.56	< 0.1	6.3	11.5	83.6	3.98	1.0	1.9	21.4	2.05	0.03	0.82
952264	0.57	0.57	2.5	49	9	729	2.60	6.2	5.8	104	249	6.34	< 0.1	4.9	9.4	79.3	8.41	0.3	0.6	5.11	2.03	0.04	0.50
952265	0.43	0.32	2.4	58	9	423	3.13	5.3	3.7	27.5	171	8.69	< 0.1	5.5	7.6	52.4	3.07	1.3	1.5	3.37	4.43	0.04	0.77
952266	0.39	0.49	2.1	48	6	385	1.77	2.1	2.0	17.5	106	5.90	< 0.1	2.5	4.2	70.5	3.41	0.5	0.8	1.89	4.26	0.02	0.55
952267	0.41	0.49	2.4	44	6	387	1.65	2.5	2.2	10.2	230	6.37	< 0.1	1.6	7.7	71.1	3.77	0.8	1.2	2.39	0.438	0.03	0.74
952268	0.41	0.67	2.8	55	8	613	2.87	5.6	4.3	33.7	386	6.47	< 0.1	4.1	9.1	98.6	4.91	3.7	0.7	3.75	0.749	0.03	0.54
952269	0.36	0.58	4.0	46	10	1110	2.18	7.9	9.8	1340	1490	5.85	< 0.1	3.4	9.7	67.5	49.7	0.9	2.0	7.57	0.991	0.04	0.74
952270	0.38	0.26	0.7	51	6	861	3.19	5.6	3.8	31.8	113	5.59	< 0.1	4.2	14.4	50.0	5.28	0.6	1.0	2.46	0.576	0.04	0.63
952271	0.49	0.20	0.4	46	6	9230	2.81	19.4	3.4	20.9	111	5.27	< 0.1	3.2	19.2	31.4	4.62	1.1	0.5	3.56	0.512	0.06	4.90
952272	0.28	0.27	1.3	71	13	3250	4.17	14.1	8.9	21.5	108	8.88	< 0.1	6.8	22.9	37.9	8.82	1.1	0.9	1.73	0.635	0.05	1.43
952273	0.17	0.78	6.1	112	6	2680	5.47	14.3	4.7	32.3	251	8.63	< 0.1	11.0	14.3	80.3	15.2	1.2	0.2	5.03	1.51	0.05	1.99
952274	0.27	0.13	1.2	80	7	1330	4.34	10.2	4.9	25.2	126	7.21	< 0.1	4.9	14.1	20.7	5.45	1.2	0.3	1.25	0.779	0.04	0.59
952275	0.19	0.26	0.7	59	11	3510	3.35	16.4	6.3	14.3	234	5.32	< 0.1	5.5	16.8	34.9	5.38	1.4	0.7	0.90	0.783	0.04	0.90
952276	0.22	0.18	0.4	64	10	2850	3.85	12.4	6.6	16.5	220	6.25	< 0.1	7.3	16.3	42.9	3.96	0.5	0.3	1.13	2.46	0.04	0.92
952277	0.38	0.26	0.4	58	8	1490	3.56	7.0	4.0	20.1	152	6.22	< 0.1	3.2	18.6	35.4	3.90	0.4	0.5	1.83	1.07	0.04	1.31
952278	0.32	0.25	1.3	59	10	1620	2.93	6.7	3.7	13.2	246	9.75	< 0.1	2.2	13.7	38.9	5.28	0.7	1.8	1.42	0.904	0.04	1.58
952279	0.30	0.18	0.9	89	7	465	3.67	4.1	3.0	12.0	87.2	11.2	< 0.1	4.6	18.0	31.6	2.91	0.4	0.4	1.35	0.226	0.04	1.00
952280	0.36	0.19	1.4	75	11	502	4.10	4.5	5.1	18.3	131	10.2	< 0.1	5.4	14.1	40.8	3.78	0.6	0.8	2.04	0.580	0.06	1.00
952281	0.32	0.19	2.2	69	9	503	4.12	4.1	3.8	29.2	122	10.5	< 0.1	4.8	13.6	37.4	3.10	0.4	2.9	3.10	0.531	0.05	1.17
952282	0.38	0.16	1.0	83	9	616	4.37	3.9	3.4	20.3	84.4	10.4	< 0.1	6.3	12.8	31.7	2.74	0.3	0.7	3.38	0.440	0.04	0.83
952283	0.42	0.39	2.9	87	12	1100	6.69	13.0	6.1	225	177	8.44	< 0.1	9.4	8.8	77.1	4.80	0.5	0.9	4.49	1.05	0.04	0.68

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
952284	2.22	0.45	5.6	108	6	1450	9.94	15.0	5.7	667	404	9.17	< 0.1	15.1	18.0	146	6.18	0.3	0.1	20.2	2.38	0.04	0.72
952285	0.52	0.45	2.8	85	10	1780	5.18	24.2	8.5	531	515	8.14	< 0.1	11.2	13.1	110	6.43	0.5	0.7	3.68	1.16	0.04	0.63
952286	0.37	1.04	4.3	69	8	1800	3.89	18.2	7.5	151	219	7.92	< 0.1	9.0	8.1	126	9.36	1.1	0.6	2.83	11.3	0.03	0.69
952287	0.41	0.46	2.6	80	10	1150	4.27	8.6	5.5	153	130	10.1	< 0.1	6.0	15.0	66.8	6.20	0.7	1.5	3.95	1.66	0.04	1.01
952288	0.16	0.78	7.6	121	8	2010	4.80	34.5	9.0	107	243	10.2	< 0.1	4.7	10.9	83.8	24.5	0.4	0.3	2.19	0.652	0.04	0.77
952289	0.37	0.48	2.1	64	5	2470	4.35	11.2	2.9	42.8	370	7.28	< 0.1	5.9	11.4	60.9	8.46	4.1	0.6	3.22	3.11	0.04	0.43
952290	0.53	0.37	1.0	77	5	868	3.82	5.9	2.2	31.3	158	10.9	< 0.1	4.7	11.4	58.2	5.36	0.5	0.6	2.96	1.06	0.03	0.77
952291	0.52	0.29	1.7	91	12	1670	4.25	8.3	4.6	32.2	234	11.9	< 0.1	5.4	18.9	46.9	5.53	0.6	1.1	2.52	0.805	0.03	1.28
952292	0.46	0.40	3.8	73	5	2340	6.83	13.8	4.2	16.5	446	8.81	< 0.1	8.5	16.8	98.3	13.4	1.4	0.4	1.89	1.09	0.03	0.52
952293	0.33	0.69	8.0	74	3	3950	4.41	13.9	2.9	63.3	1120	8.37	< 0.1	7.5	12.9	73.3	20.7	0.2	0.1	3.08	0.477	0.08	0.62
952294	0.31	0.63	4.1	55	4	2230	3.82	11.4	3.1	53.9	476	7.11	< 0.1	7.5	8.8	99.6	11.4	0.5	0.4	3.93	1.32	0.05	0.67
952295	0.39	0.62	10.0	91	4	5470	5.23	14.4	4.1	72.4	1930	11.0	< 0.1	7.9	16.0	81.0	24.4	0.7	0.3	3.21	1.42	0.16	0.91
952296	0.71	0.70	7.2	73	4	3700	5.94	21.3	3.4	81.8	783	8.36	0.1	11.3	12.9	111	17.2	1.0	0.1	6.43	2.94	0.08	0.63
952297	2.30	0.59	6.1	75	3	4450	5.91	28.8	2.7	285	905	8.46	< 0.1	15.4	16.0	96.1	14.8	1.2	0.1	10.8	1.70	0.08	1.56
952298	0.94	0.99	6.3	79	5	5200	3.68	16.6	3.9	62.4	1060	10.2	< 0.1	5.4	13.5	130	16.2	0.3	0.1	1.82	3.32	0.04	0.58
952299	0.25	0.50	1.7	82	11	3360	3.79	12.5	4.4	42.3	483	9.78	< 0.1	8.5	10.3	84.9	8.41	3.8	0.3	2.35	0.761	0.05	0.45
745926	0.05	0.98	5.5	61	33	453	2.93	8.0	28.2	51.0	41.5	5.28	< 0.1	4.2	4.9	47.9	8.59	8.2	0.2	4.27	0.212	0.03	2.22
745927	0.86	3.19	13.0	194	46	2460	10.5	30.1	30.8	147	463	16.7	< 0.1	11.9	10.4	247	24.4	1.3	0.2	8.07	1.41	0.10	1.29
952300	0.38	0.26	0.9	65	7	1310	3.50	5.7	3.8	56.0	231	7.99	< 0.1	5.3	9.4	59.0	10.4	1.7	1.0	3.40	1.75	0.04	0.69
952301	0.37	0.28	0.8	66	7	1280	3.50	5.6	3.7	55.6	226	7.79	< 0.1	4.8	9.5	59.8	10.3	1.2	0.9	3.42	1.02	0.04	0.73
952302	1.33	0.38	4.4	83	2	2570	6.50	23.3	1.7	222	775	8.73	< 0.1	11.0	15.0	118	14.1	0.7	0.3	8.03	1.15	0.08	0.82
952303	1.94	0.31	2.3	84	3	1870	7.32	4.3	2.0	71.3	351	9.67	< 0.1	10.2	26.2	77.7	6.18	0.5	0.2	19.2	1.61	0.08	0.88
952304	1.82	0.22	2.6	64	4	861	6.73	1.9	1.8	29.7	144	6.62	< 0.1	5.6	20.6	59.5	3.15	0.9	0.5	11.6	5.10	0.08	0.73
952305	0.62	0.66	2.3	71	8	1760	3.77	12.0	3.0	51.5	340	7.18	< 0.1	7.6	12.2	88.2	6.69	0.4	0.4	4.21	4.07	0.06	0.62
952306	0.37	0.47	2.7	96	11	910	4.55	4.7	4.1	14.9	125	15.1	< 0.1	4.5	15.2	61.8	4.36	0.3	1.9	2.29	0.789	0.04	2.53
952307	0.77	0.60	7.2	73	4	2660	5.88	24.8	2.9	57.2	402	8.98	< 0.1	11.7	19.6	63.8	11.8	1.0	0.2	16.7	1.00	0.07	0.81
952308	0.55	0.89	6.5	68	3	2910	4.69	17.2	2.7	149	880	8.20	< 0.1	19.6	17.5	95.5	17.3	1.2	0.3	9.41	1.21	0.04	1.49
952309	0.83	0.63	7.0	65	4	1930	6.61	11.3	3.6	71.5	371	7.39	< 0.1	29.8	14.8	75.5	9.10	1.3	0.3	7.97	2.33	0.05	0.55
952310	1.81	0.74	6.2	49	4	4180	4.44	16.5	3.3	244	1390	5.68	< 0.1	10.7	17.4	53.5	26.4	1.7	0.1	1.84	2.85	0.03	0.44
952311	1.75	0.56	3.4	29	3	3520	4.40	20.4	2.7	262	1860	4.84	< 0.1	17.6	10.2	70.6	11.0	2.3	0.2	9.56	1.79	0.03	0.32
952312	0.83	0.38	4.1	59	11	2300	4.95	19.9	9.6	86.2	545	7.44	< 0.1	8.7	17.4	61.6	12.6	0.6	0.6	4.92	0.742	0.06	0.85
952313	0.29	0.19	0.5	48	8	1340	2.49	5.2	3.5	32.3	98.8	6.57	< 0.1	3.6	19.1	31.1	4.43	1.2	1.0	2.02	1.47	0.03	0.98
952314	0.69	0.59	3.9	69	8	2340	4.11	15.2	6.1	69.8	489	7.97	< 0.1	8.2	17.4	90.0	9.42	0.3	0.3	2.83	1.11	0.06	0.66
952315	0.09	0.29	1.1	53	4	2090	2.85	8.5	2.6	15.3	120	4.87	< 0.1	3.3	20.0	16.5	10.6	0.7	0.1	0.57	0.249	0.03	0.34
952316	0.28	0.57	0.8	57	5	2730	2.82	7.9	3.4	22.2	257	5.71	< 0.1	16.2	16.7	51.8	13.0	0.4	0.1	0.96	0.316	0.03	0.38
952317	0.66	0.30	1.3	51	8	1090	4.19	8.6	5.1	69.7	277	5.77	< 0.1	9.6	10.9	63.8	6.08	0.4	0.4	4.69	0.815	0.05	0.42
952318	0.45	0.36	0.8	55	9	1410	3.76	10.3	5.9	38.7	269	5.80	< 0.1	7.4	7.9	48.6	8.19	0.3	0.3	2.02	0.699	0.03	0.38
952319	0.34	0.43	1.5	44	7	1730	2.96	8.7	4.9	53.4	401	7.75	< 0.1	4.7	28.4	37.5	16.1	2.0	0.6	1.32	0.263	0.03	0.65
952320	0.34	0.32	2.1	48	7	2190	3.30	11.0	6.0	55.0	335	5.88	< 0.1	6.8	19.9	40.4	10.2	0.4	0.1	1.70	0.845	0.03	0.45
952321	0.21	0.20	0.6	42	6	1130	2.72	6.8	4.0	18.3	132	4.87	< 0.1	4.3	14.4	21.0	11.2	0.4	0.2	0.69	0.054	0.03	0.41
952322	0.32	0.45	2.8	33	5	1490	2.64	7.2	3.6	84.3	275	4.64	< 0.1	7.7	17.2	26.4	24.6	0.3	0.2	1.46	1.23	0.03	0.41
952323	0.26	0.59	3.9	45	4	2370	3.41	8.3	2.8	60.3	232	5.18	< 0.1	5.5	15.0	36.9	25.9	0.4	0.1	1.81	0.392	0.03	0.45

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952324	0.49	0.33	1.2	41	6	1200	2.77	5.6	2.4	27.4	156	4.24	< 0.1	5.4	13.2	23.4	10.8	0.8	< 0.1	1.42	0.708	0.03	0.51
952325	0.28	0.26	1.3	56	8	1610	3.83	7.4	3.2	21.2	228	5.82	< 0.1	14.9	15.6	22.2	5.90	1.8	0.4	1.79	0.411	0.04	0.44
952326	0.32	0.23	1.8	77	6	1460	4.15	7.4	3.1	20.3	165	8.41	< 0.1	11.5	18.2	28.6	4.21	0.8	0.4	1.51	0.503	0.04	0.62
952327	0.22	0.32	2.3	58	5	2300	3.60	9.7	3.7	32.0	242	6.39	< 0.1	8.3	16.3	29.5	7.64	0.4	0.1	1.75	0.461	0.05	0.44
952328	0.28	0.15	1.0	72	7	744	3.62	5.2	2.7	12.3	94.4	10.0	< 0.1	5.9	14.9	21.2	3.54	1.0	1.0	1.77	0.103	0.03	0.93
952329	0.22	0.22	0.6	50	6	1620	2.61	4.6	2.8	15.3	154	7.13	< 0.1	5.5	22.2	25.8	5.39	0.8	0.7	1.50	0.321	0.03	0.87
952330	0.17	0.40	1.0	51	7	606	2.36	5.7	4.6	23.2	168	5.93	< 0.1	2.6	20.0	41.7	9.23	0.4	0.2	0.87	0.076	0.03	0.50
952331	0.21	0.17	1.0	58	8	> 10000	3.42	11.7	3.0	18.7	156	7.39	< 0.1	4.3	34.8	25.2	3.57	1.3	0.2	1.66	0.370	0.02	0.55
952332	0.19	0.13	1.4	56	10	2060	3.23	6.7	4.0	14.8	107	7.77	< 0.1	3.6	18.8	20.3	3.12	2.4	1.1	1.53	0.326	0.03	0.90
952333	0.46	0.22	0.8	50	8	1540	2.53	5.3	3.4	12.7	84.3	9.17	< 0.1	2.0	22.6	31.3	3.29	1.0	0.8	1.25	0.081	0.03	1.24
952334	0.70	0.43	1.0	85	107	3210	4.09	14.0	17.6	78.2	289	8.53	< 0.1	6.4	18.8	52.8	4.89	0.7	0.4	3.00	0.396	0.04	0.88
952335	0.55	0.33	0.5	55	13	3480	3.87	12.1	5.6	34.3	399	6.75	< 0.1	12.2	14.7	43.9	5.36	0.7	0.6	2.64	1.28	0.04	0.60
952336	0.57	0.29	1.1	44	15	2810	3.18	10.0	7.8	33.4	421	10.1	< 0.1	9.3	21.9	36.5	9.44	1.1	2.0	2.37	0.069	0.05	1.90
952337	0.30	0.41	1.0	101	187	5280	4.02	28.4	28.0	56.2	207	7.36	< 0.1	5.3	11.5	54.6	5.24	0.4	0.6	2.16	0.173	0.03	0.80
952338	0.57	0.57	2.9	86	100	1650	3.76	14.1	25.5	88.8	485	8.09	< 0.1	7.0	12.1	71.9	6.73	0.3	0.2	2.44	0.069	0.03	0.52
952339	0.60	0.46	8.2	91	136	3710	4.55	22.6	37.3	130	704	9.36	< 0.1	8.9	16.8	56.4	11.2	0.4	0.1	1.56	0.803	0.04	0.53
952340	0.62	0.98	6.9	80	190	3750	3.93	20.3	42.2	174	907	7.19	< 0.1	7.6	13.9	79.6	26.2	0.8	0.2	3.27	0.438	0.04	0.39
952341	0.71	1.05	5.2	67	140	3540	3.66	19.9	35.4	128	1240	6.57	< 0.1	6.6	10.8	52.6	28.7	1.0	0.3	1.91	0.619	0.04	0.38
952342	0.21	0.27	2.7	78	14	1250	3.65	8.8	6.8	32.8	106	8.46	< 0.1	3.5	18.7	34.1	5.05	0.2	0.2	1.11	< 0.002	0.02	0.87
952343	0.27	0.14	0.9	70	18	1660	3.30	7.4	4.6	28.7	96.6	10.1	< 0.1	3.2	19.0	26.2	3.59	1.3	1.0	1.63	0.838	0.03	8.58
952344	0.34	0.19	1.0	75	22	991	3.85	9.8	8.4	29.9	142	8.28	< 0.1	3.2	19.5	23.9	3.59	0.5	0.3	1.10	0.091	0.03	0.68
952345	0.71	1.32	5.1	114	147	1650	4.76	22.2	51.6	161	668	9.15	< 0.1	8.6	17.2	66.8	12.1	0.4	0.3	1.49	2.92	0.05	0.91
952346	0.20	0.27	3.4	71	41	941	3.56	11.7	21.7	133	197	7.47	< 0.1	5.8	19.0	27.9	6.49	1.0	0.5	1.55	0.082	0.04	0.61
952347	0.12	0.51	4.9	118	58	2250	4.96	21.0	21.5	185	113	7.06	< 0.1	8.8	15.2	53.7	10.2	0.5	0.1	1.41	0.163	0.03	0.55
952348	0.37	0.28	2.8	62	14	3190	4.46	12.4	8.1	1640	1360	6.02	< 0.1	6.9	20.3	16.3	11.2	1.1	0.3	2.43	3.86	0.05	0.48
952349	0.14	0.13	1.3	56	7	1110	2.94	4.9	3.2	43.0	111	4.36	< 0.1	3.0	16.8	13.5	4.00	2.8	0.2	2.12	0.214	0.03	0.46
952350	0.16	0.44	7.3	132	199	4080	5.28	29.5	50.5	296	605	8.89	< 0.1	6.0	20.6	24.2	7.65	1.0	0.2	1.82	0.191	0.06	0.51
952351	0.26	0.26	2.3	54	15	2550	4.38	14.1	6.1	59.1	180	5.49	< 0.1	7.9	12.0	19.6	14.2	0.4	0.1	2.21	0.094	0.03	0.62
952352	0.28	0.24	1.9	102	83	1110	4.21	13.7	22.5	53.3	157	8.66	< 0.1	8.4	17.8	31.0	3.73	1.3	0.5	2.08	0.087	0.04	0.70
952353	0.30	0.31	2.4	108	89	3030	5.21	18.8	22.4	103	171	7.52	< 0.1	11.2	17.2	26.9	12.1	0.4	0.1	2.07	0.802	0.04	0.63
952354	0.25	0.40	4.5	114	59	1760	5.34	15.7	18.6	115	169	6.21	< 0.1	8.6	12.0	23.4	11.9	0.1	< 0.1	2.06	0.538	0.03	0.56
952355	0.33	0.29	1.2	51	23	526	1.87	3.9	5.7	32.2	109	8.47	< 0.1	2.4	9.9	43.9	4.23	1.0	1.4	1.40	0.407	0.03	1.35
952356	0.51	0.36	2.2	79	19	657	3.38	4.3	5.0	24.4	115	11.2	< 0.1	3.6	11.4	55.0	4.39	0.2	0.9	1.98	1.38	0.03	1.33
952357	0.40	0.39	2.1	58	15	260	1.38	1.7	2.2	8.84	44.7	15.2	< 0.1	1.0	7.8	48.5	3.30	0.7	3.4	1.31	0.119	0.02	3.93
952358	0.36	0.55	3.0	73	27	758	3.03	6.0	7.2	28.8	153	9.20	< 0.1	3.9	12.7	72.5	4.95	0.2	0.8	2.00	0.118	0.04	1.07
952359	4.78	0.27	2.7	24	2	6200	8.10	19.0	2.6	1320	> 5000	4.40	0.1	12.9	16.6	18.6	36.0	0.9	< 0.1	15.7	6.41	0.39	0.25
952360	1.24	0.49	2.0	34	6	1770	3.24	7.7	5.2	142	618	6.07	< 0.1	6.6	23.9	30.5	33.6	1.2	0.2	8.25	2.65	0.05	0.51
952361	0.61	0.54	1.9	42	9	1790	2.98	8.4	6.9	90.4	412	6.52	< 0.1	4.0	17.0	57.1	14.3	0.3	0.3	2.97	0.461	0.03	0.48
952362	0.69	0.35	2.2	36	6	2560	3.18	8.9	5.2	108	771	6.76	< 0.1	7.8	19.2	35.0	17.1	0.4	0.6	2.96	2.63	0.03	0.56
952363	0.83	0.33	1.0	37	12	3890	3.06	12.8	5.2	57.5	357	6.03	< 0.1	6.5	23.7	35.4	7.71	0.9	0.1	5.92	0.631	0.03	0.32
952364	0.48	0.20	1.2	56	12	928	3.20	5.3	5.0	19.8	163	11.5	< 0.1	3.7	19.6	29.8	4.48	1.4	1.6	2.01	0.201	0.03	1.85
745928	0.05	0.98	5.7	60	32	465	2.92	7.9	28.7	49.7	40.5	5.29	< 0.1	4.2	4.8	47.0	9.01	9.8	0.2	4.33	< 0.002	0.02	2.36

Results**Activation Laboratories Ltd.****Report: A17-07494**

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm																
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05		
Method Code	AR-MS																							
745929	0.43	1.18	4.9	40	21	667	3.69	6.5	11.7	1100	58.9	4.74	< 0.1	3.7	4.7	51.1	10.3	5.9	0.3	6.66	0.174	0.05	1.46	

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952200	0.37	0.39	1.09	30.4	13.6	27.7	0.53	3.3	12.1	2.1	0.9	0.5	1.6	0.2	1.3	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952201	0.56	0.43	1.36	23.8	16.6	37.9	0.68	4.6	17.7	3.5	0.5	0.9	3.1	0.4	2.4	0.4	1.1	0.2	0.8	0.1	< 0.1	< 0.05	< 0.1
952202	0.43	1.77	0.87	11.4	15.4	35.6	0.25	4.4	14.8	2.1	2.0	0.5	1.6	0.2	1.1	0.1	0.4	< 0.1	0.2	< 0.1	< 0.1	< 0.05	0.1
952203	0.70	2.47	0.98	16.1	21.1	49.6	0.15	6.6	24.2	3.6	1.5	0.8	2.4	0.3	1.5	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952204	0.48	2.59	1.00	19.3	33.4	77.8	1.61	10.2	39.3	6.5	1.7	1.4	3.5	0.3	1.5	0.2	0.4	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
952205	0.50	1.10	0.82	18.6	12.2	26.2	0.63	3.2	11.8	2.0	3.8	0.5	1.4	0.2	0.9	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
952206	0.65	0.42	1.24	199	17.7	36.6	1.28	4.6	18.0	3.3	2.0	0.8	2.6	0.3	1.9	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
952207	0.36	0.17	0.82	91.4	9.3	18.4	0.52	2.2	7.82	1.4	0.9	0.3	1.1	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952208	0.27	0.29	0.44	20.4	13.0	28.3	0.79	3.6	13.5	2.4	2.2	0.6	1.7	0.2	1.0	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952209	0.41	0.11	1.40	104	9.6	20.2	0.66	2.1	7.95	1.5	0.6	0.3	1.4	0.2	1.2	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952210	0.46	0.09	1.07	125	10.0	19.9	0.54	2.3	7.99	1.4	0.7	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952211	0.37	0.06	1.13	117	8.5	19.0	0.63	2.0	7.11	1.4	0.7	0.3	1.2	0.2	1.1	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952212	0.35	< 0.02	0.76	200	8.8	17.5	0.88	2.0	7.16	1.3	0.3	0.3	1.2	0.1	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952213	0.33	0.09	0.70	145	8.6	16.5	0.71	1.9	6.82	1.3	0.5	0.3	1.2	0.2	1.1	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952214	0.42	0.22	0.67	214	7.4	13.9	1.32	1.5	5.49	1.0	0.5	0.3	0.9	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952215	0.30	0.16	0.99	130	8.3	15.7	0.94	1.8	6.28	1.1	0.6	0.3	1.0	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952216	0.20	0.49	0.25	62.9	7.8	15.2	0.40	1.8	6.30	1.0	0.6	0.3	0.8	< 0.1	0.5	< 0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
952217	0.56	0.42	0.84	197	12.4	23.0	0.88	2.5	8.94	1.6	1.4	0.4	1.2	0.2	0.9	0.1	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952218	0.24	0.29	0.77	85.5	6.2	11.3	1.99	1.3	4.51	0.8	0.5	0.2	0.7	< 0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952219	0.31	0.14	1.26	121	6.7	13.2	1.98	1.5	5.49	1.1	0.4	0.3	1.0	0.1	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952220	0.24	0.13	1.19	168	6.9	13.2	0.97	1.5	5.35	1.0	0.4	0.2	0.9	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952221	0.35	0.18	1.73	168	6.5	13.1	1.31	1.5	5.97	1.2	0.6	0.3	1.1	0.2	1.2	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952222	0.60	0.11	1.09	124	7.5	14.5	2.11	1.7	6.19	1.1	0.6	0.3	1.1	0.1	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.2
952223	0.38	0.23	0.67	118	8.7	17.1	0.51	1.9	6.72	1.3	0.6	0.3	1.1	0.1	0.9	0.2	0.4	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952224	0.35	0.27	0.61	113	8.3	16.4	0.55	1.9	6.70	1.2	0.4	0.3	1.1	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952225	0.35	0.20	0.96	187	8.2	15.4	1.08	1.8	6.23	1.1	0.4	0.3	1.0	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952226	0.46	0.17	1.36	149	8.5	16.9	0.96	1.9	6.81	1.3	0.7	0.4	1.3	0.2	1.1	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952227	0.37	0.12	1.27	117	7.7	14.8	1.21	1.7	6.11	1.2	0.5	0.3	1.1	0.1	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952228	0.37	0.06	0.77	94.6	5.9	11.6	0.73	1.3	4.81	0.9	0.6	0.2	0.9	0.1	0.8	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.3
952229	0.31	0.16	1.01	70.8	6.4	12.5	0.62	1.4	5.05	1.0	0.9	0.3	1.0	0.1	0.9	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952230	0.32	0.10	0.80	81.2	5.8	11.5	0.87	1.3	4.61	0.8	0.4	0.2	0.8	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.2
952231	0.33	0.06	0.79	108	6.9	13.5	1.08	1.5	5.30	1.0	0.5	0.2	0.9	0.1	0.7	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952232	0.29	0.06	0.74	87.4	5.9	11.5	0.93	1.3	4.75	0.9	0.3	0.3	0.8	< 0.1	0.6	0.1	0.3	< 0.1	0.2	< 0.1	< 0.1	< 0.05	< 0.1
952233	0.45	0.25	0.63	82.8	15.7	32.0	0.28	4.0	15.2	3.0	0.8	0.8	2.8	0.4	2.3	0.4	1.1	0.1	0.8	< 0.1	< 0.1	< 0.05	< 0.1
952234	0.35	0.40	0.61	73.0	15.6	33.5	0.40	4.1	16.2	3.1	0.8	0.8	2.7	0.4	2.3	0.4	1.0	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1
952235	0.27	0.36	0.46	22.8	10.1	21.5	0.47	2.5	8.90	1.5	0.8	0.4	1.1	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952236	0.31	0.34	0.69	68.8	11.9	23.2	0.77	2.7	9.34	1.6	0.7	0.4	1.4	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952237	0.22	0.48	0.47	37.8	13.2	27.6	1.31	3.2	11.1	1.7	0.8	0.4	1.2	0.2	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952238	0.32	0.66	0.52	195	14.9	29.8	1.18	3.6	13.4	2.5	1.0	0.6	2.2	0.3	1.8	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
952239	0.29	0.51	0.58	97.7	11.3	22.6	0.78	2.6	9.35	1.6	1.0	0.4	1.4	0.2	1.0	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952240	0.25	0.63	0.53	34.5	9.7	20.1	0.56	2.4	8.54	1.5	0.9	0.3	1.2	0.1	0.8	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952241	0.59	0.65	0.38	33.4	15.6	34.0	1.73	4.2	17.0	3.4	1.3	0.8	2.5	0.3	1.6	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm																						
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																						
952242	0.34	0.43	0.81	168	11.7	22.4	0.53	2.5	8.82	1.6	0.8	0.4	1.3	0.2	1.0	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952243	0.31	0.17	0.90	191	8.3	18.1	1.14	2.0	7.46	1.4	0.9	0.4	1.5	0.2	1.4	0.2	0.7	<0.1	0.6	<0.1	<0.1	<0.05	<0.1
952244	0.38	0.63	1.45	122	11.7	28.3	1.15	2.8	10.6	2.1	0.7	0.5	1.9	0.3	1.7	0.3	0.8	0.1	0.6	<0.1	<0.1	<0.05	<0.1
952245	0.24	0.28	0.76	105	9.2	18.2	0.56	2.1	7.93	1.4	0.5	0.3	1.3	0.2	1.1	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952246	0.30	0.06	0.96	116	11.1	29.7	0.74	2.9	11.6	2.4	0.7	0.6	2.5	0.3	2.1	0.3	1.0	0.1	0.8	0.1	<0.1	<0.05	<0.1
952247	0.30	0.07	0.86	84.8	10.4	24.1	0.38	2.6	9.70	1.9	0.9	0.4	1.8	0.3	1.6	0.3	0.8	0.1	0.6	<0.1	<0.1	<0.05	<0.1
952248	0.30	0.07	0.74	72.0	10.9	25.0	0.58	2.8	10.5	2.3	1.3	0.5	2.3	0.4	2.3	0.4	1.0	0.1	0.7	<0.1	<0.1	<0.05	<0.1
952249	0.55	0.52	1.21	153	30.1	62.8	1.47	5.9	19.5	3.2	0.7	0.6	3.0	0.4	2.5	0.4	1.2	0.2	1.0	0.1	<0.1	<0.05	<0.1
952250	0.56	2.04	0.67	15.7	16.0	36.9	1.83	4.6	17.1	2.9	1.3	0.6	2.6	0.3	1.9	0.3	0.9	0.1	0.6	<0.1	<0.1	<0.05	0.1
952251	0.56	0.69	0.62	25.3	20.0	46.4	1.09	5.3	19.7	2.8	0.3	0.5	2.0	0.3	1.6	0.3	0.7	0.1	0.7	<0.1	<0.1	<0.05	<0.1
952252	0.41	0.57	0.88	192	13.1	34.4	2.30	3.2	12.1	2.3	0.9	0.5	2.1	0.3	1.8	0.3	0.8	0.1	0.7	<0.1	<0.1	<0.05	<0.1
952253	0.47	0.35	0.97	184	13.1	27.8	1.30	2.9	10.7	2.0	0.8	0.5	1.9	0.3	1.7	0.3	0.8	0.1	0.7	<0.1	<0.1	<0.05	<0.1
952254	0.25	0.33	0.58	175	9.1	17.5	0.92	2.0	7.38	1.3	0.7	0.3	1.1	0.1	0.8	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952255	0.31	0.17	1.06	335	11.6	24.9	3.67	2.5	9.36	1.7	0.5	0.5	1.6	0.2	1.3	0.2	0.7	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952256	0.51	0.45	0.52	222	9.6	18.8	0.77	2.2	8.15	1.4	1.1	0.4	1.2	0.1	0.8	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952257	0.48	0.47	0.71	220	10.0	19.5	2.00	2.2	8.06	1.4	0.9	0.3	1.1	0.1	0.8	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952258	0.68	0.68	0.44	67.0	10.8	21.8	0.31	2.5	8.95	1.5	3.0	0.4	1.2	0.1	0.7	0.1	0.3	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952259	0.33	0.25	0.59	149	7.7	14.9	1.67	1.7	6.29	1.1	0.5	0.3	1.1	0.1	0.8	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	0.1
952260	0.32	0.42	0.74	136	7.1	13.7	0.81	1.6	5.79	1.1	0.4	0.3	1.0	0.1	0.8	0.1	0.5	<0.1	0.3	<0.1	<0.1	<0.05	0.1
952261	0.25	0.30	0.51	215	9.1	17.1	1.43	1.9	6.74	1.1	0.7	0.3	0.8	0.1	0.6	0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.05	<0.1
952262	0.35	0.39	0.93	134	6.2	11.9	1.57	1.4	5.14	1.0	0.7	0.3	1.0	0.1	0.9	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	0.3
952263	0.32	0.43	0.56	131	7.2	13.9	1.64	1.6	5.86	1.1	0.6	0.3	0.9	0.1	0.8	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	0.2
952264	0.29	0.41	0.58	115	9.3	18.3	1.92	2.3	9.17	1.9	0.5	0.5	2.1	0.3	1.7	0.3	1.0	0.1	0.8	0.1	<0.1	<0.05	<0.1
952265	0.28	0.35	0.44	119	5.6	10.8	1.59	1.2	4.39	0.9	0.7	0.2	0.8	0.1	0.6	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	0.2
952266	0.27	0.17	0.27	71.7	4.8	9.29	1.23	1.1	4.06	0.8	0.3	0.2	0.8	0.1	0.6	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	0.1
952267	0.23	0.14	0.40	79.1	5.3	10.3	2.02	1.3	4.59	0.9	0.5	0.2	0.8	0.1	0.7	0.1	0.4	<0.1	0.4	<0.1	<0.1	<0.05	0.2
952268	0.35	0.22	0.63	102	6.1	12.2	3.57	1.4	5.39	1.1	0.2	0.3	1.1	0.2	0.9	0.2	0.6	<0.1	0.5	<0.1	<0.1	<0.05	0.3
952269	0.25	0.20	1.04	161	48.1	36.5	9.15	13.4	53.5	11.1	1.0	2.4	11.7	1.5	8.3	1.6	4.5	0.6	3.5	0.5	<0.1	<0.05	<0.1
952270	0.44	0.19	1.93	44.1	7.5	15.8	0.46	1.9	6.84	1.3	1.2	0.4	1.3	0.2	1.2	0.2	0.6	<0.1	0.6	<0.1	<0.1	<0.05	<0.1
952271	0.05	0.20	1.44	31.0	6.3	18.7	1.61	1.6	5.95	1.1	1.4	0.3	1.1	0.2	1.0	0.2	0.5	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952272	0.37	0.12	2.16	106	10.5	27.2	0.43	2.8	10.8	2.3	0.7	0.5	2.3	0.3	1.8	0.3	1.0	0.1	0.8	<0.1	<0.1	<0.05	<0.1
952273	0.80	0.26	1.11	86.9	11.6	46.6	1.07	3.6	15.6	3.6	0.6	1.1	4.0	0.6	3.4	0.6	1.8	0.2	1.4	0.2	<0.1	<0.05	<0.1
952274	0.29	0.08	0.99	97.9	8.9	21.7	0.38	2.1	8.11	1.5	1.0	0.4	1.5	0.2	1.2	0.2	0.7	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952275	0.30	0.06	0.80	76.0	9.9	26.5	2.61	2.4	9.22	1.8	0.6	0.4	1.6	0.2	1.1	0.2	0.6	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952276	0.33	0.08	1.07	350	10.2	25.7	1.81	2.4	8.78	1.6	0.7	0.4	1.4	0.2	0.9	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952277	0.27	0.12	0.74	244	8.8	20.9	0.81	2.0	7.26	1.3	0.6	0.3	1.1	0.2	0.8	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952278	0.23	0.11	0.73	735	9.1	18.2	1.49	2.1	7.90	1.4	0.5	0.4	1.4	0.2	1.0	0.2	0.5	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952279	0.23	0.12	0.73	100.0	6.5	13.4	0.30	1.5	5.37	1.0	0.7	0.3	0.8	0.1	0.6	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952280	0.32	0.16	0.68	96.2	8.0	16.0	0.37	1.8	6.84	1.2	0.3	0.3	1.1	0.1	0.8	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952281	0.25	0.15	0.70	82.3	6.9	13.4	0.31	1.5	5.48	1.0	0.5	0.3	0.8	0.1	0.7	0.1	0.3	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952282	0.29	0.21	0.42	101	6.5	12.5	0.34	1.4	5.33	1.0	0.8	0.2	0.8	<0.1	0.6	0.1	0.3	<0.1	0.3	<0.1	<0.1	<0.05	<0.1
952283	0.44	0.34	0.78	128	6.8	14.2	0.91	1.7	6.42	1.2	0.9	0.3	1.2	0.2	1.0	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm																						
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																						
952284	0.63	1.68	0.96	29.5	6.0	14.6	1.16	1.9	7.65	1.6	2.8	0.4	1.7	0.2	1.4	0.3	0.7	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952285	0.40	0.41	1.39	100	6.7	15.5	1.81	1.8	7.05	1.6	0.9	0.4	1.7	0.3	1.4	0.3	0.7	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952286	0.49	0.32	0.95	105	9.9	25.3	0.86	2.5	9.64	1.9	1.0	0.5	2.0	0.3	1.7	0.3	1.0	0.1	0.9	0.1	<0.1	<0.05	0.1
952287	0.34	0.28	0.82	85.9	8.5	19.6	0.55	2.0	7.30	1.5	0.8	0.4	1.5	0.2	1.3	0.2	0.7	<0.1	0.6	<0.1	<0.1	<0.05	0.1
952288	0.20	0.10	1.45	114	17.0	45.6	1.09	5.1	21.1	4.7	1.4	1.1	5.1	0.7	4.3	0.8	2.6	0.4	2.2	0.3	<0.1	<0.05	<0.1
952289	0.41	0.41	1.17	65.8	10.3	25.7	1.19	2.5	9.29	1.8	1.5	0.5	1.8	0.3	1.6	0.3	0.9	0.1	0.8	<0.1	<0.1	<0.05	<0.1
952290	0.39	0.47	0.89	57.3	7.7	17.1	0.70	1.7	6.28	1.2	1.1	0.4	1.2	0.2	1.0	0.2	0.6	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952291	0.37	0.38	1.42	73.5	7.8	16.8	0.56	1.8	6.91	1.4	1.1	0.3	1.3	0.2	1.1	0.2	0.6	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952292	0.51	1.81	1.01	24.9	20.4	46.8	1.21	5.4	21.4	3.7	2.5	0.9	3.3	0.5	2.8	0.5	1.6	0.2	1.3	0.2	<0.1	<0.05	<0.1
952293	0.88	0.73	1.17	120	18.6	53.0	8.40	5.0	20.1	4.5	1.4	1.3	4.6	0.7	4.0	0.7	2.2	0.3	1.9	0.2	<0.1	<0.05	<0.1
952294	0.65	0.75	0.73	84.0	22.6	43.6	2.57	4.3	14.9	2.7	1.7	0.8	2.7	0.4	2.3	0.4	1.2	0.2	1.0	0.1	<0.1	<0.05	<0.1
952295	0.86	0.61	1.47	105	20.6	57.0	7.82	5.6	22.1	5.0	1.1	1.5	5.4	0.8	4.8	0.9	2.8	0.4	2.3	0.3	<0.1	<0.05	<0.1
952296	0.68	2.34	1.39	142	19.8	45.3	4.68	5.3	20.3	4.2	4.4	1.1	4.2	0.6	3.5	0.7	2.0	0.3	1.6	0.2	<0.1	<0.05	<0.1
952297	0.58	1.82	2.11	149	14.7	37.6	4.90	3.9	15.4	3.3	2.7	0.8	3.4	0.5	2.8	0.5	1.7	0.2	1.5	0.2	<0.1	<0.05	<0.1
952298	0.66	1.03	1.57	172	24.6	75.8	9.90	5.9	21.2	4.2	0.7	1.1	4.1	0.6	3.1	0.6	1.8	0.2	1.5	0.2	<0.1	<0.05	<0.1
952299	0.54	0.49	1.04	175	10.7	47.5	1.72	2.5	9.41	1.8	1.1	0.5	2.0	0.3	1.7	0.3	1.0	0.1	0.9	0.1	<0.1	<0.05	<0.1
745926	0.52	0.06	0.33	113	5.6	12.2	0.12	1.7	7.05	1.6	0.3	0.4	1.8	0.3	1.5	0.3	0.9	0.1	0.7	<0.1	0.2	<0.05	0.1
745927	0.43	0.59	1.04	119	25.9	56.3	1.64	7.0	27.6	5.5	1.1	1.5	5.8	0.8	4.6	0.9	2.5	0.3	2.0	0.3	<0.1	<0.05	<0.1
952300	0.33	0.25	0.88	143	12.2	25.4	1.82	3.0	11.3	2.4	1.5	0.6	2.3	0.3	2.1	0.4	1.2	0.2	1.0	0.1	<0.1	<0.05	<0.1
952301	0.30	0.27	0.83	62.5	11.9	25.2	1.70	3.0	11.2	2.3	1.2	0.6	2.3	0.4	2.2	0.4	1.2	0.2	0.9	0.1	<0.1	<0.05	<0.1
952302	0.47	0.73	1.05	43.1	19.9	44.2	3.45	5.1	19.5	3.8	2.4	1.0	3.6	0.5	2.9	0.5	1.6	0.2	1.3	0.2	<0.1	<0.05	<0.1
952303	0.49	1.31	1.09	30.7	12.0	24.9	0.74	3.0	11.0	2.1	1.8	0.5	1.8	0.2	1.4	0.2	0.7	<0.1	0.5	<0.1	<0.1	<0.05	<0.1
952304	0.31	1.70	0.89	19.1	8.6	15.6	0.20	1.6	5.64	0.9	3.1	0.3	0.9	0.1	0.6	0.1	0.4	<0.1	0.3	<0.1	<0.1	<0.05	0.1
952305	0.40	0.82	0.89	141	7.0	16.1	4.04	1.7	6.88	1.4	0.9	0.4	1.4	0.2	1.2	0.2	0.7	0.1	0.6	<0.1	<0.1	<0.05	<0.1
952306	0.32	0.17	1.03	78.3	7.8	15.5	0.54	1.8	6.67	1.3	0.8	0.3	1.1	0.1	0.9	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952307	0.49	0.89	3.49	43.9	10.7	26.1	1.58	2.9	12.2	2.8	1.3	0.8	2.8	0.4	2.3	0.4	1.3	0.2	1.2	0.1	<0.1	<0.05	<0.1
952308	0.65	1.06	2.00	92.9	16.8	38.7	5.02	4.5	18.3	3.9	1.1	1.1	4.1	0.5	3.3	0.6	1.9	0.2	1.6	0.2	<0.1	<0.05	0.1
952309	0.76	1.14	2.11	64.1	10.9	25.9	1.42	3.0	11.9	2.7	0.9	0.7	2.4	0.3	2.0	0.4	1.0	0.1	0.9	0.1	<0.1	<0.05	0.1
952310	0.60	0.17	1.53	343	22.1	42.2	11.8	5.8	23.5	4.9	0.6	1.5	5.3	0.7	4.4	0.9	2.7	0.4	2.3	0.3	<0.1	<0.05	<0.1
952311	0.62	0.27	0.81	156	11.3	27.9	17.5	2.9	11.5	2.4	0.5	0.6	2.4	0.3	2.1	0.4	1.3	0.2	1.1	0.1	<0.1	<0.05	0.1
952312	0.47	0.58	1.24	168	16.2	38.7	1.92	4.3	16.9	3.5	1.1	0.9	3.4	0.5	2.7	0.5	1.6	0.2	1.2	0.2	<0.1	<0.05	<0.1
952313	0.22	0.15	1.02	89.3	7.7	16.6	0.60	1.8	6.85	1.3	1.0	0.3	1.2	0.2	0.9	0.2	0.5	<0.1	0.4	<0.1	<0.1	<0.05	<0.1
952314	0.45	0.29	1.10	135	11.9	29.4	1.78	3.0	11.6	2.4	0.5	0.7	2.3	0.3	1.9	0.3	1.1	0.2	0.9	0.1	<0.1	<0.05	<0.1
952315	0.16	0.06	1.70	163	12.3	31.8	0.25	3.2	13.1	2.7	0.6	0.8	2.8	0.4	2.1	0.4	1.3	0.2	1.2	0.2	<0.1	<0.05	<0.1
952316	0.34	0.12	1.58	279	13.2	28.6	0.96	3.4	13.6	2.9	0.5	0.9	2.9	0.4	2.5	0.5	1.4	0.2	1.3	0.2	<0.1	<0.05	<0.1
952317	0.36	0.64	0.74	186	9.7	20.4	1.57	2.4	9.25	1.8	0.7	0.5	1.9	0.2	1.4	0.2	0.7	<0.1	0.6	<0.1	<0.1	<0.05	<0.1
952318	0.31	0.24	0.75	122	9.5	24.4	1.72	2.5	9.55	2.0	0.9	0.5	1.9	0.3	1.6	0.3	0.9	0.1	0.8	0.1	<0.1	<0.05	<0.1
952319	0.23	0.17	2.63	318	14.7	22.4	1.04	4.1	17.1	3.7	0.9	1.1	3.8	0.5	3.0	0.6	1.7	0.2	1.4	0.2	<0.1	<0.05	<0.1
952320	0.45	0.18	2.12	166	12.0	30.3	1.01	3.3	12.9	2.8	0.8	0.8	2.8	0.4	2.3	0.4	1.2	0.2	1.0	0.1	<0.1	<0.05	<0.1
952321	0.26	0.08	1.20	218	15.3	28.0	0.50	3.8	14.8	3.0	0.5	0.9	3.1	0.4	2.6	0.5	1.3	0.2	1.0	0.1	<0.1	<0.05	<0.1
952322	0.38	0.14	2.01	339	23.0	40.7	0.99	6.5	27.4	5.8	0.4	1.7	6.2	0.8	4.9	0.9	2.7	0.4	1.9	0.3	<0.1	<0.05	<0.1
952323	0.70	0.11	1.42	318	22.5	42.2	1.48	6.2	25.8	5.5	0.4	1.7	5.9	0.8	4.7	0.9	2.6	0.4	1.9	0.3	<0.1	<0.05	<0.1

Results

Activation Laboratories Ltd.

Report: A17-07494

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952324	0.31	0.08	0.94	160	13.2	22.0	0.72	3.2	12.9	2.6	0.6	0.8	2.5	0.4	2.2	0.4	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952325	0.29	0.11	1.75	92.7	7.2	20.6	0.55	1.8	7.22	1.4	0.9	0.4	1.4	0.2	1.3	0.2	0.7	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952326	0.36	0.16	1.02	91.0	5.7	13.4	0.35	1.4	5.33	1.1	0.7	0.3	1.0	0.1	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952327	0.35	0.15	1.26	102	9.1	24.8	0.79	2.3	8.87	1.8	0.2	0.5	1.9	0.3	1.6	0.3	0.9	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
952328	0.25	0.10	0.89	104	5.6	14.7	0.28	1.3	5.01	0.9	0.5	0.3	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952329	0.20	0.05	1.45	135	7.6	16.2	1.42	1.9	6.94	1.3	0.5	0.4	1.4	0.2	1.1	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952330	0.29	0.06	1.86	125	10.7	23.0	0.59	2.7	10.4	2.2	0.3	0.7	2.2	0.3	1.9	0.3	1.0	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1
952331	0.24	0.08	1.75	404	5.1	17.3	2.30	1.2	4.63	0.9	0.7	0.2	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952332	0.18	0.07	1.10	95.4	5.4	12.9	0.25	1.3	4.82	0.9	1.0	0.2	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952333	0.21	0.09	1.04	105	6.1	14.3	0.35	1.4	5.30	0.9	0.2	0.2	0.9	0.1	0.6	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952334	0.37	0.14	1.58	97.2	6.0	15.6	1.31	1.5	5.75	1.1	0.9	0.3	1.1	0.2	1.0	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952335	0.38	0.08	2.01	87.7	6.9	17.0	2.36	1.7	6.27	1.2	1.1	0.3	1.3	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952336	0.32	0.07	1.82	74.0	10.5	35.9	1.47	2.8	10.6	2.4	0.9	0.6	2.3	0.3	2.0	0.4	1.1	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952337	0.34	0.09	1.00	37.8	5.3	15.0	1.74	1.4	5.44	1.1	0.9	0.3	1.1	0.2	1.1	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952338	0.60	0.15	0.74	97.3	6.8	17.4	1.60	1.7	6.65	1.3	0.3	0.4	1.3	0.2	1.2	0.2	0.7	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
952339	0.47	0.16	1.04	74.6	7.9	41.0	1.96	2.6	10.7	2.5	0.7	0.8	2.7	0.4	2.4	0.5	1.5	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1
952340	0.38	0.10	1.04	196	13.0	22.8	7.32	3.6	15.2	3.6	0.8	1.2	4.2	0.6	4.1	0.8	2.6	0.4	2.0	0.3	< 0.1	< 0.05	< 0.1
952341	0.28	0.12	0.58	136	15.5	30.1	13.7	4.2	17.0	3.9	0.9	1.4	4.6	0.7	4.3	0.9	2.7	0.4	2.0	0.3	< 0.1	< 0.05	< 0.1
952342	0.32	0.05	1.36	107	6.9	16.0	0.19	1.8	6.76	1.4	0.4	0.3	1.3	0.2	1.0	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952343	0.27	0.05	1.30	101	6.8	15.0	0.24	1.6	6.04	1.1	0.7	0.3	1.0	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952344	0.25	0.08	1.09	104	4.6	11.3	0.32	1.2	4.54	0.9	0.6	0.2	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952345	0.31	0.39	1.61	88.6	11.8	26.6	4.20	3.1	12.3	2.6	0.9	0.7	2.7	0.4	2.3	0.4	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952346	0.29	0.11	1.33	127	9.8	24.0	0.39	2.4	8.92	1.8	0.4	0.5	1.7	0.2	1.3	0.2	0.7	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952347	0.40	0.04	1.18	129	8.8	23.8	0.30	2.4	9.68	2.0	0.5	0.6	2.4	0.3	2.0	0.4	1.1	0.1	0.8	0.1	< 0.1	< 0.05	< 0.1
952348	0.28	0.03	1.80	156	12.7	30.5	8.77	3.2	12.6	2.6	0.8	0.7	2.7	0.4	2.2	0.4	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952349	0.25	< 0.02	0.82	37.8	5.1	13.4	0.57	1.2	4.52	0.9	0.8	0.2	0.9	0.1	0.8	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952350	0.33	0.13	2.28	227	5.4	17.0	4.21	1.5	6.44	1.4	0.5	0.5	1.6	0.2	1.4	0.3	0.8	0.1	0.6	< 0.1	< 0.1	< 0.05	< 0.1
952351	0.37	0.08	0.78	176	16.5	48.8	0.76	3.8	14.4	2.8	0.8	0.8	3.0	0.4	2.5	0.5	1.4	0.2	1.1	0.1	< 0.1	< 0.05	< 0.1
952352	0.31	0.09	1.40	64.3	4.5	10.6	0.44	1.1	4.22	0.8	0.5	0.2	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952353	0.43	0.05	1.51	166	11.4	32.4	0.86	3.3	13.1	2.8	0.6	0.8	3.0	0.4	2.4	0.5	1.3	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952354	0.53	0.08	1.14	149	11.2	27.3	0.74	3.0	12.0	2.5	0.4	0.8	2.7	0.4	2.2	0.4	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952355	0.16	0.04	0.81	84.0	7.4	14.4	0.52	1.7	6.34	1.1	0.4	0.3	1.2	0.2	0.9	0.2	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952356	0.32	0.19	0.85	63.5	6.9	13.8	0.43	1.6	5.94	1.1	0.5	0.3	1.1	0.2	0.8	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952357	0.25	0.05	0.80	60.4	8.1	16.0	0.13	1.9	6.64	1.2	0.1	0.2	1.0	0.1	0.6	0.1	0.3	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952358	0.36	0.27	0.94	52.2	6.8	14.4	0.51	1.6	6.29	1.2	0.6	0.3	1.2	0.2	0.9	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952359	0.97	1.28	1.92	125	30.5	45.8	40.3	8.2	33.7	7.0	2.5	2.9	7.1	1.0	5.6	1.1	3.4	0.5	2.8	0.4	< 0.1	< 0.05	< 0.1
952360	0.44	0.09	1.89	456	39.9	44.0	2.57	9.2	33.9	6.4	1.0	1.7	6.3	0.9	5.2	1.0	3.1	0.4	2.4	0.4	< 0.1	< 0.05	< 0.1
952361	0.40	0.21	1.39	201	13.7	27.0	1.58	3.4	13.2	2.8	0.4	0.7	2.7	0.4	2.4	0.5	1.4	0.2	1.1	0.2	< 0.1	< 0.05	< 0.1
952362	6.75	0.16	1.82	402	16.4	35.6	3.13	4.4	17.8	3.7	0.3	1.2	3.9	0.5	3.2	0.6	1.9	0.3	1.5	0.2	< 0.1	< 0.05	< 0.1
952363	0.46	0.19	0.99	286	8.0	24.6	4.03	2.0	7.75	1.6	0.4	0.5	1.5	0.2	1.4	0.3	0.9	0.1	0.7	0.1	< 0.1	< 0.05	< 0.1
952364	0.22	0.18	1.25	112	8.8	18.5	0.41	2.1	7.21	1.4	0.2	0.3	1.2	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
745928	0.50	0.06	0.33	112	5.7	12.3	0.16	1.8	7.42	1.7	0.5	0.4	1.9	0.3	1.6	0.3	1.0	0.1	0.7	< 0.1	0.2	< 0.05	0.1

Results**Activation Laboratories Ltd.****Report: A17-07494**

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm																					
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																					
745929	1.51	0.08	0.26	61.7	6.5	13.5	0.15	1.8	7.00	1.5	2.0	0.4	1.8	0.2	1.6	0.3	1.1	0.2	0.9	0.1	0.1	< 0.05	2.7

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952200	< 0.001	6.8	0.10	522	0.2	0.6	30
952201	< 0.001	3.2	0.08	268	1.4	0.6	30
952202	< 0.001	5.5	0.14	133	1.7	0.9	20
952203	< 0.001	19.9	0.16	231	1.7	0.9	20
952204	< 0.001	15.4	0.28	79.1	2.8	0.7	30
952205	< 0.001	7.7	0.30	299	0.4	0.4	50
952206	< 0.001	6.1	0.28	334	0.7	0.9	40
952207	< 0.001	3.0	0.16	108	0.2	0.7	80
952208	0.002	25.6	0.14	177	0.2	0.9	30
952209	0.001	2.1	0.09	182	0.1	0.7	70
952210	< 0.001	2.2	0.10	501	2.2	0.6	40
952211	< 0.001	0.6	0.09	425	0.2	0.7	40
952212	< 0.001	< 0.5	0.05	135	0.7	0.5	20
952213	< 0.001	0.5	0.06	85.6	0.9	0.7	30
952214	0.001	< 0.5	0.24	65.0	< 0.1	0.6	30
952215	< 0.001	< 0.5	0.09	88.7	0.8	0.6	20
952216	< 0.001	0.5	0.13	146	0.1	0.4	30
952217	< 0.001	2.1	0.12	187	0.8	1.1	30
952218	< 0.001	2.8	0.07	72.3	0.3	0.4	< 10
952219	< 0.001	0.5	0.11	108	1.0	0.6	30
952220	< 0.001	31.1	0.11	43.9	1.4	0.5	30
952221	< 0.001	1.3	0.13	271	1.7	0.5	30
952222	< 0.001	< 0.5	0.12	266	2.0	0.6	70
952223	< 0.001	3.6	0.06	76.9	1.9	0.7	50
952224	< 0.001	2.0	0.05	56.5	1.9	0.6	10
952225	< 0.001	< 0.5	0.08	39.7	1.9	0.5	50
952226	< 0.001	1.6	0.09	89.9	3.0	0.7	50
952227	< 0.001	1.3	0.05	112	1.5	0.7	40
952228	< 0.001	3.6	0.06	18.1	1.4	0.5	60
952229	< 0.001	43.5	0.05	175	2.2	0.6	70
952230	< 0.001	6.5	0.06	103	1.4	0.4	50
952231	< 0.001	1.3	0.07	208	1.2	0.4	40
952232	0.001	< 0.5	0.06	186	1.2	0.3	50
952233	< 0.001	4.2	0.03	148	0.9	0.4	10
952234	0.001	2.0	0.03	71.0	0.5	0.7	50
952235	< 0.001	4.3	0.10	102	0.1	0.5	80
952236	< 0.001	< 0.5	0.09	91.3	0.2	0.5	40
952237	< 0.001	1.3	0.10	71.0	< 0.1	0.4	30
952238	< 0.001	12.1	0.05	132	1.4	0.7	20
952239	< 0.001	3.6	0.07	81.3	0.3	0.6	110
952240	< 0.001	10.6	0.15	111	0.1	0.6	50
952241	< 0.001	20.5	0.11	121	1.8	1.6	30

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952242	< 0.001	6.6	0.12	217	0.3	0.7	10
952243	0.002	8.4	0.16	272	0.2	1.1	30
952244	< 0.001	2.1	0.10	202	0.4	1.0	40
952245	< 0.001	3.7	0.12	105	0.2	0.6	50
952246	< 0.001	0.5	0.09	71.2	0.4	0.8	40
952247	< 0.001	0.6	0.07	28.3	< 0.1	0.9	40
952248	< 0.001	7.6	0.09	31.5	0.1	0.8	80
952249	< 0.001	2.9	0.12	102	1.9	1.6	40
952250	< 0.001	18.9	0.14	1470	1.2	0.9	40
952251	< 0.001	12.6	0.08	136	1.0	1.2	30
952252	< 0.001	0.6	0.13	191	0.5	1.0	30
952253	< 0.001	20.5	0.11	197	0.4	1.1	30
952254	< 0.001	8.7	0.09	140	0.2	0.6	40
952255	< 0.001	2.1	0.12	71.3	0.4	1.2	60
952256	< 0.001	2.2	0.22	118	1.3	0.7	40
952257	0.001	1.4	0.29	135	1.6	0.7	50
952258	0.002	15.0	0.25	138	1.9	0.8	30
952259	< 0.001	1.4	0.09	43.1	1.1	0.6	20
952260	< 0.001	1.4	0.12	54.8	1.4	0.6	40
952261	< 0.001	0.6	0.12	58.7	0.2	0.8	50
952262	< 0.001	2.2	0.09	82.5	1.2	0.6	60
952263	< 0.001	2.3	0.06	92.5	1.2	0.5	30
952264	< 0.001	10.5	0.06	107	0.5	1.1	50
952265	0.002	< 0.5	0.06	179	1.4	0.5	30
952266	< 0.001	< 0.5	0.03	63.7	0.7	0.4	30
952267	< 0.001	< 0.5	0.04	28.6	0.8	0.4	40
952268	< 0.001	< 0.5	0.03	57.4	1.8	0.6	30
952269	< 0.001	2.8	0.07	62.4	1.2	4.7	30
952270	0.001	1.4	0.11	78.7	< 0.1	1.0	140
952271	0.001	4.2	0.29	95.4	0.1	0.9	50
952272	< 0.001	1.3	0.16	76.1	0.2	1.1	50
952273	< 0.001	10.8	0.11	124	0.6	0.9	30
952274	< 0.001	1.3	0.08	96.0	0.2	0.5	30
952275	< 0.001	< 0.5	0.05	93.4	0.2	0.7	20
952276	< 0.001	4.0	0.06	60.0	< 0.1	0.7	30
952277	< 0.001	2.7	0.05	70.1	< 0.1	0.6	30
952278	< 0.001	2.6	0.05	75.9	0.2	0.8	20
952279	< 0.001	< 0.5	0.12	25.4	0.1	0.5	40
952280	< 0.001	< 0.5	0.12	41.7	0.2	0.6	40
952281	0.001	5.4	0.11	34.2	0.4	0.6	50
952282	< 0.001	10.9	0.12	33.0	0.1	0.6	40
952283	< 0.001	19.3	0.04	63.3	0.5	0.8	60

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952284	< 0.001	148	0.14	74.4	0.8	1.1	60
952285	0.001	4.1	0.09	75.2	0.3	1.2	80
952286	0.001	12.2	0.05	110	1.8	1.4	30
952287	< 0.001	2.9	0.08	78.7	0.5	1.8	90
952288	0.003	4.1	0.06	76.4	2.6	2.2	20
952289	0.001	4.1	0.05	213	0.9	0.9	20
952290	< 0.001	2.0	0.10	73.9	0.2	0.7	50
952291	< 0.001	< 0.5	0.13	61.7	0.2	0.7	70
952292	< 0.001	2.9	0.14	217	0.8	1.6	30
952293	< 0.001	8.1	0.07	403	1.6	1.1	10
952294	0.001	1.4	0.05	285	1.0	1.0	30
952295	0.001	1.4	0.11	802	1.8	1.2	10
952296	< 0.001	18.2	0.09	463	2.2	1.2	80
952297	0.001	5.6	0.10	108	2.2	1.4	40
952298	< 0.001	5.8	0.09	78.1	2.8	1.5	40
952299	< 0.001	1.5	0.08	61.2	0.7	1.0	40
745926	< 0.001	3.0	0.05	15.2	1.0	0.3	10
745927	0.009	11.4	0.11	67.8	2.9	1.8	50
952300	< 0.001	2.9	0.06	64.2	0.3	1.2	50
952301	< 0.001	3.0	0.05	46.2	0.2	1.2	40
952302	0.001	7.2	0.08	41.5	1.3	1.2	70
952303	0.001	4.2	0.17	66.8	0.2	0.7	50
952304	< 0.001	17.4	0.19	138	1.4	0.6	30
952305	< 0.001	10.2	0.07	90.6	0.2	0.9	< 10
952306	< 0.001	1.6	0.17	56.3	0.4	0.6	30
952307	0.002	17.2	0.16	199	2.5	1.5	< 10
952308	0.001	7.4	0.13	392	2.2	1.3	30
952309	< 0.001	8.9	0.12	275	2.1	1.1	70
952310	< 0.001	13.4	0.12	969	3.9	1.6	< 10
952311	< 0.001	23.1	0.09	989	3.0	1.4	40
952312	< 0.001	1.7	0.13	102	1.2	1.2	40
952313	< 0.001	4.7	0.10	67.7	0.2	0.8	70
952314	< 0.001	12.5	0.12	106	1.0	1.1	20
952315	< 0.001	9.8	0.12	21.6	0.3	0.7	30
952316	< 0.001	3.4	0.10	43.9	0.1	0.6	40
952317	< 0.001	24.9	0.12	161	0.2	0.9	70
952318	< 0.001	14.3	0.06	92.1	0.1	0.8	20
952319	< 0.001	1.9	0.14	67.4	0.4	1.0	30
952320	< 0.001	5.0	0.17	125	0.3	0.9	40
952321	0.001	5.4	0.12	52.7	0.2	0.9	40
952322	0.001	19.7	0.16	258	1.3	1.4	40
952323	0.001	25.4	0.13	132	2.2	1.6	20

Results**Activation Laboratories Ltd.****Report: A17-07494**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952324	< 0.001	15.1	0.11	111	0.5	1.5	10
952325	0.001	104	0.10	108	0.6	0.8	60
952326	< 0.001	8.0	0.15	57.0	0.3	0.6	60
952327	< 0.001	8.0	0.15	78.1	0.4	0.6	20
952328	< 0.001	8.0	0.15	44.8	0.2	0.6	30
952329	0.003	14.6	0.15	43.5	0.2	0.8	70
952330	< 0.001	27.7	0.13	25.0	< 0.1	0.9	20
952331	< 0.001	9.5	0.32	179	0.3	0.7	90
952332	0.002	< 0.5	0.19	45.6	0.5	0.6	50
952333	0.001	27.7	0.22	32.9	0.2	0.5	50
952334	< 0.001	4.5	0.12	153	0.1	0.7	60
952335	0.001	44.5	0.09	323	0.2	0.8	80
952336	0.001	4.5	0.14	100	0.4	1.3	30
952337	< 0.001	< 0.5	0.08	137	< 0.1	0.5	50
952338	0.001	24.4	0.08	118	0.3	0.7	20
952339	< 0.001	1.0	0.11	242	2.3	1.1	30
952340	< 0.001	8.0	0.09	183	0.8	3.1	30
952341	0.001	11.2	0.07	165	0.8	1.5	10
952342	< 0.001	4.4	0.11	32.4	0.4	0.7	50
952343	< 0.001	< 0.5	0.17	33.6	0.2	0.6	30
952344	< 0.001	17.9	0.14	41.6	0.1	0.5	30
952345	< 0.001	2.9	0.08	332	0.4	1.4	50
952346	0.001	4.6	0.18	50.1	0.7	0.7	10
952347	< 0.001	1.2	0.13	13.6	0.2	0.5	20
952348	0.001	75.0	0.21	32.0	1.0	1.0	80
952349	0.003	14.6	0.13	28.4	0.6	0.7	50
952350	0.001	57.1	0.11	45.7	0.4	0.4	30
952351	0.002	4.3	0.08	52.3	0.3	1.2	30
952352	< 0.001	145	0.11	31.0	0.2	0.4	20
952353	0.001	157	0.13	79.1	0.2	0.7	50
952354	0.003	171	0.09	55.5	1.0	0.7	30
952355	0.002	18.4	0.10	45.5	0.2	0.6	40
952356	< 0.001	4.8	0.12	30.0	0.2	0.6	40
952357	< 0.001	4.7	0.17	30.8	0.2	0.5	20
952358	0.001	3.1	0.09	40.7	0.3	0.6	10
952359	< 0.001	80.3	0.15	235	4.5	5.0	220
952360	< 0.001	14.9	0.17	84.0	1.8	12.7	40
952361	< 0.001	1.4	0.10	114	0.6	1.6	< 10
952362	0.001	4.8	0.14	352	1.0	1.6	50
952363	< 0.001	5.0	0.12	179	0.6	1.3	20
952364	< 0.001	8.4	0.13	53.7	0.3	0.6	50
745928	0.002	< 0.5	0.06	3.18	1.1	0.3	20

Results**Activation Laboratories Ltd.****Report: A17-07494**

Appendix H

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
745929	0.005	121	0.03	4.79	1.8	0.4	130

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																		
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
SDC-1 1F2 Assay (%) Meas			< 30	680	< 10				20	60	0.003					40		0.095			0.005		< 30
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038		25.0
SDC-1 1F2 Assay (%) Meas			< 30	630	< 10				20	60	0.003					40		0.091			0.005		< 30
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038		25.0
SBC-1 1F2-assay Kamloops (%) Meas			< 30	820	< 10	< 20		< 3	20	80	0.003		20			170		0.118	< 0.001		0.012		30
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024		0.00828		35.0
DNC-1a 1F2-assay Kamloops (%) Meas				110					60	280	0.010					< 10		0.130			0.039		
DNC-1a 1F2-assay Kamloops (%) Cert				118					57.0	270	0.01					5.20		0.116			0.0247		
DNC-1a 1F2-assay Kamloops (%) Meas				100					60	170	0.010					< 10		0.126			0.035		
DNC-1a 1F2-assay Kamloops (%) Cert				118					57.0	270	0.01					5.20		0.116			0.0247		
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	13.5	230	1450	< 10	< 20	0.2	< 3	10	70	0.007	5.2	30	< 10	2.4	40	0.7	0.117	< 0.001	0.1	0.004	0.03	120
GXR-6 1F2-assay Kamloops (%)	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
Cert																								
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	13.9	310	1400	< 10	< 20	0.2	< 3	10	80	0.006	5.1	30	< 10	2.7	40	0.7	0.122	< 0.001	0.1	0.004	0.04	100	
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101	
GXR-1 1F2-assay Kamloops (%) Meas	29.4	2.2	430	810	< 10	2010	1.3	< 3	< 10	30	0.130	24.4	< 10	< 10	< 0.1	< 10	0.3	0.114	0.002	< 0.1	0.006	0.07	1030	
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730	
OREAS 14P 1F2-assay Kamloops (%) Meas									860		1.08	32.7									3.03			
OREAS 14P 1F2-assay Kamloops (%) Cert									750		0.997	37.2									2.10			
OREAS 14P 1F2-assay Kamloops (%) Meas									900			32.6												
OREAS 14P 1F2-assay Kamloops (%) Cert									750			37.2												
GBW 07238 1F2-assay Kamloops (%) Meas			< 30								0.012		20					1.29	1.68		0.006		< 30	
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0					1.08	1.51		0.00178		18.7	
GBW 07238 1F2-assay Kamloops (%) Meas			< 30									20											< 30	
GBW 07238 1F2-assay Kamloops (%) Cert			1.60									25.0											18.7	
GBW 07239 1F2-assay Kamloops (%) Meas			< 30		< 20				10		0.007		20					1.33	0.122		0.004		40	
GBW 07239			1.0		1.0				13.5				23.1					1.15	0.110				26.1	

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
1F2-assay Kamloops (%) Cert											0.00486											0.00209	
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas	16.1	6.5	70	960	< 10	< 20	0.7	6	< 10	70	0.024	1.5	20		4.9	20	0.3	0.108	< 0.001	2.0	0.007	0.03	910
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert	3.64	6.30	38.8	801	2.20	1.94	0.610	5.27	10.7	79.7	0.0331	2.99	17.0		2.94	27.4	0.500	0.522	0.00131	1.14	0.00415	0.0700	982
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas	17.3	6.6	90	1070	< 10	< 20	0.8	6	10	50	0.026	1.7	30		6.0	20	0.3	0.116	0.003	2.2	0.007	0.04	1000
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert	3.64	6.30	38.8	801	2.20	1.94	0.610	5.27	10.7	79.7	0.0331	2.99	17.0		2.94	27.4	0.500	0.522	0.00131	1.14	0.00415	0.0700	982
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
OREAS 923																							

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP											
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
952212 Orig	< 3.0	6.5	< 30	1120	< 10	< 20	1.3	< 3	< 10	80	< 0.001	3.0	10	< 10	2.5	20	0.6	0.116	< 0.001	2.3	< 0.001	0.09	< 30
952212 Dup	< 3.0	6.3	< 30	1080	< 10	< 20	1.2	< 3	< 10	70	< 0.001	2.8	10	< 10	2.5	20	0.6	0.108	< 0.001	2.2	0.002	0.09	< 30
952226 Orig	< 3.0	6.4	< 30	860	< 10	< 20	1.3	< 3	< 10	80	0.005	7.7	20	< 10	1.9	20	0.8	0.091	< 0.001	1.7	0.002	0.16	40
952226 Dup	< 3.0	8.2	< 30	860	< 10	< 20	1.4	< 3	10	100	0.005	8.0	20	< 10	2.0	20	0.8	0.094	< 0.001	1.8	0.006	0.17	50
952251 Orig	< 3.0	10.4	< 30	1200	< 10	< 20	2.6	< 3	10	30	0.019	5.9	30	< 10	5.1	< 10	0.7	0.337	0.003	1.0	< 0.001	0.18	150
952251 Dup	< 3.0	10.1	< 30	1200	< 10	< 20	2.6	< 3	10	40	0.018	5.8	20	< 10	5.0	< 10	0.7	0.332	0.003	1.0	0.002	0.18	140
952253 Orig																							
952253 Dup																							
952265 Orig	< 3.0	7.8	< 30	1080	< 10	< 20	2.4	< 3	< 10	30	0.004	4.3	20	< 10	2.2	< 10	0.5	0.105	< 0.001	2.0	< 0.001	0.15	50
952265 Dup	< 3.0	7.8	< 30	1110	< 10	< 20	2.4	< 3	< 10	30	0.004	4.3	20	< 10	2.0	10	0.5	0.103	< 0.001	2.0	< 0.001	0.15	60
952276 Orig																							
952276 Dup																							
952290 Orig	< 3.0	8.3	< 30	1120	< 10	< 20	1.9	< 3	< 10	20	0.004	5.1	20	< 10	2.9	< 10	0.6	0.167	0.002	1.3	< 0.001	0.24	130
952290 Dup	< 3.0	8.4	< 30	1090	< 10	< 20	1.8	< 3	< 10	70	0.006	4.9	20	< 10	2.8	< 10	0.6	0.163	< 0.001	1.3	< 0.001	0.24	100
952302 Orig	< 3.0	7.5	< 30	1660	< 10	< 20	1.5	3	30	10	0.028	7.6	20	< 10	4.7	10	1.2	0.375	0.001	1.0	0.002	0.29	30
952302 Dup	< 3.0	7.3	< 30	1630	< 10	< 20	1.5	5	30	10	0.028	7.5	20	< 10	4.6	10	1.2	0.364	0.002	1.0	< 0.001	0.28	40
952315 Orig																							
952315 Dup																							
952327 Orig	< 3.0	8.3	< 30	1020	< 10	< 20	1.1	< 3	< 10	20	0.003	4.5	20	< 10	3.0	20	0.8	0.301	< 0.001	2.0	0.002	0.18	110
952327 Dup	< 3.0	8.1	< 30	1020	< 10	< 20	1.1	< 3	10	20	0.004	4.4	10	< 10	2.9	20	0.8	0.299	< 0.001	2.0	< 0.001	0.17	110
952331 Orig																							
952331 Dup																							
952345 Orig																							
952345 Dup																							
952355 Orig	< 3.0	5.0	< 30	670	< 10	< 20	1.7	< 3	< 10	60	0.009	2.7	20	< 10	1.9	10	0.7	0.095	< 0.001	1.4	< 0.001	0.15	70
952355 Dup	< 3.0	8.0	< 30	670	< 10	< 20	1.8	< 3	< 10	50	0.004	2.8	20	< 10	2.1	< 10	0.7	0.094	< 0.001	1.4	0.001	0.11	70
952358 Orig																							

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP																						
952358 Dup																							
Method Blank																							
Method Blank																							

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
GXR-1 Meas														0.007	< 1	0.049	5.4	0.9	12	0.050	0.14	0.38	0.03	
GXR-1 Cert														0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	
GXR-1 Meas														0.007	< 1	0.049	5.0	0.8	11	0.048	0.14	0.39	0.03	
GXR-1 Cert														0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050	
GXR-1 Meas																								
GXR-1 Cert																								
GXR-6 Meas														< 1	0.035	27.5	0.9	4	0.074	0.41	7.17	1.10		
GXR-6 Cert														0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87		
GXR-6 Meas														< 1	0.033	23.7	0.7	4	0.071	0.37	6.90	1.06		
GXR-6 Cert														0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87		
GXR-6 Meas																								
GXR-6 Cert																								
SDC-1 1F2 Assay (%) Meas		< 50	< 40	210					60	< 50		0.018	< 50											
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180					102	0.80		0.0103	290											
SDC-1 1F2 Assay (%) Meas		< 50	< 40	190					60	< 50		0.011	< 50											
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180					102	0.80		0.0103	290											
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	200				< 50	< 100	260	< 50	30	0.022	120										
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178				0.890	5.76	220	1.60	36.5	0.0186	134										
DNC-1a 1F2-assay Kamloops (%) Meas		< 50	< 40	160						180		20	0.008	< 50										
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144						148.00		18.0	0.007	38.0										
DNC-1a 1F2-assay Kamloops (%) Meas		< 50	< 40	160						150		20	0.007	< 50										
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144						148.00		18.0	0.007	38.0										
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	50	< 20			< 50	< 100	80	< 50	10	0.015	50										
GXR-6 1F2-assay Kamloops (%)	0.0160	3.60	27.6	35.0	0.0180			2.20	1.54	186	1.90	14.0	0.0118	110										

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	AR-MS																				
Cert																							
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	50	< 20		< 50	< 100	200	< 50	10	0.015	100										
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110										
GXR-1 1F2-assay Kamloops (%) Meas	0.3	< 50	< 40	370	40		< 50	< 100	120	190	30	0.099	< 50										
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0										
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas										2850	10	0.009											
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655											
GBW 07238 1F2-assay Kamloops (%) Meas										3040	10												
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4												
GBW 07239 1F2-assay Kamloops (%) Meas										1380	40	0.023											
GBW 07239										34.2	0.012												

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS																		
1F2-assay Kamloops (%) Cert										1000.00													
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas		60	< 40	150	60	0.2	< 50	< 100	30	< 50	30	0.086											
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert		6.00	7.83	151	0.960	0.380	2.70	3.57	67.2	9.78	28.0	0.093											
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas		< 50	< 40	170	< 20	0.2	< 50	< 100	30	< 50	30	0.096											
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert		6.00	7.83	151	0.960	0.380	2.70	3.57	67.2	9.78	28.0	0.093											
OREAS 922 (AQUA REGIA) Meas															< 1	0.058	23.4	0.8		0.027	1.28	2.66	0.42
OREAS 922 (AQUA REGIA) Cert															0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376
OREAS 922 (AQUA REGIA) Meas															< 1	0.062	22.6	0.7		0.026	1.21	2.68	0.41
OREAS 922 (AQUA REGIA) Cert															0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas															< 1	0.058	24.3	0.6			1.39	2.73	0.37
OREAS 923 (AQUA REGIA) Cert															0.684	0.061	23.4	0.61			1.43	2.80	0.322
OREAS 923 (AQUA REGIA) Meas															< 1	0.064	24.2	0.7			1.52	2.99	0.40
OREAS 923 (AQUA REGIA) Cert															0.684	0.061	23.4	0.61			1.43	2.80	0.322
OREAS 923																							

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS																						
(AQUA REGIA) Meas																								
OREAS 923 (AQUA REGIA) Cert																								
SdAR-M2 (U.S.G.S.) Meas																			12.9	4.8				
SdAR-M2 (U.S.G.S.) Cert																			17.9	6.6				
SdAR-M2 (U.S.G.S.) Meas																			11.8	4.5				
SdAR-M2 (U.S.G.S.) Cert																			17.9	6.6				
SdAR-M2 (U.S.G.S.) Meas																								
SdAR-M2 (U.S.G.S.) Cert																								
952212 Orig	< 0.1	< 50	< 40	260	< 20	0.3	< 50	< 100	80	< 50	10	0.026	80	0.094	< 1	0.050	14.9	0.2	13	0.019	0.32	1.40	0.06	
952212 Dup	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	100	< 50	10	0.026	90	0.091	< 1	0.051	15.1	0.3	3	0.017	0.32	1.39	0.06	
952226 Orig	< 0.1	< 50	< 40	250	60	0.2	< 50	< 100	120	< 50	20	0.060	< 50	0.098	< 1	0.140	16.4	0.9	6	0.019	0.41	3.92	0.08	
952226 Dup	< 0.1	< 50	< 40	250	80	0.3	< 50	< 100	160	< 50	20	0.058	60	0.092	< 1	0.144	16.7	1.0	2	0.020	0.41	4.03	0.08	
952251 Orig	0.6	< 50	< 40	430	40	0.6	< 50	< 100	200	< 50	20	0.023	110											
952251 Dup	0.6	< 50	< 40	430	< 20	0.6	< 50	< 100	200	< 50	20	0.023	110											
952253 Orig															0.039	< 1	0.150	11.6	1.0	2	0.029	0.49	2.64	0.20
952253 Dup															0.053	< 1	0.149	11.2	0.9	1	0.031	0.49	2.66	0.21
952265 Orig	< 0.1	< 50	< 40	340	< 20	0.3	< 50	< 100	90	< 50	10	0.027	60											
952265 Dup	< 0.1	< 50	< 40	340	30	0.3	< 50	< 100	100	< 50	10	0.026	60											
952276 Orig															0.004	< 1	0.151	8.4	0.7	< 1	0.018	0.26	1.47	0.20
952276 Dup															0.004	< 1	0.145	8.2	0.7	< 1	0.017	0.25	1.42	0.19
952290 Orig	0.1	< 50	< 40	330	< 20	0.5	< 50	< 100	190	< 50	20	0.023	100	0.018	< 1	0.126	5.5	0.4	< 1	0.019	0.36	2.74	0.08	
952290 Dup	0.1	< 50	< 40	330	< 20	0.5	< 50	< 100	180	< 50	20	0.023	90	0.018	< 1	0.123	5.2	0.4	< 1	0.020	0.35	2.65	0.07	
952302 Orig	0.4	< 50	< 40	410	< 20	0.5	< 50	< 100	200	< 50	30	0.110	110											
952302 Dup	0.4	< 50	< 40	410	< 20	0.4	< 50	< 100	200	< 50	30	0.109	110											
952315 Orig															0.004	< 1	0.137	10.2	0.8	< 1	0.017	0.60	1.96	0.30
952315 Dup															0.004	< 1	0.137	10.1	0.9	1	0.017	0.60	1.97	0.31
952327 Orig	< 0.1	< 50	< 40	260	70	0.5	< 50	< 100	150	< 50	20	0.033	70											
952327 Dup	< 0.1	< 50	< 40	250	20	0.3	< 50	< 100	110	< 50	10	0.033	60											
952331 Orig															0.012	< 1	0.328	3.6	0.5	< 1	0.017	0.14	2.02	0.19
952331 Dup															0.012	< 1	0.342	3.8	0.5	< 1	0.017	0.14	2.07	0.20
952345 Orig															0.040	< 1	0.129	23.2	0.9	1	0.029	1.82	3.24	0.14
952345 Dup															0.038	< 1	0.125	22.6	0.9	< 1	0.027	1.76	3.10	0.13
952355 Orig	< 0.1	< 50	< 40	250	< 20	0.4	< 50	< 100	110	< 50	20	0.016	80											
952355 Dup	< 0.1	< 50	< 40	270	< 20	0.2	< 50	< 100	80	< 50	20	0.017	80											
952358 Orig															0.059	< 1	0.078	10.5	0.3	< 1	0.019	0.55	2.51	0.07

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS													
952358 Dup															0.065	< 1	0.081	10.5	0.4	1	0.019	0.55	2.58	0.07
Method Blank														< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.011	< 0.01	< 0.01	< 0.01	
Method Blank																								

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm																
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05	
Method Code	AR-MS																							
GXR-1 Meas	1470	0.82	1.1	75	7	861	24.0	7.9	38.2	1110	788	4.79		388	2.0	168	24.2	9.6	< 0.1	17.1	29.7	0.70	22.6	
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0	
GXR-1 Meas	1490	0.88	1.2	76	7	862	24.9	7.9	37.4	1170	769	4.68		414	2.1	173	24.7	9.9	< 0.1	17.0	31.2	0.68	22.2	
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0	
GXR-1 Meas										1140														
GXR-1 Cert										1110														
GXR-6 Meas	0.16	0.15	22.0	162	76	1020	5.17	13.7	23.1	61.8	120	15.3		214	62.2	31.4	6.42	11.0	< 0.1	1.68	0.032	0.05	1.04	
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70	
GXR-6 Meas	0.14	0.15	20.0	152	72	1010	5.35	12.5	20.8	64.7	113	14.5		202	61.9	30.5	5.88	8.7	< 0.1	1.63	0.474	0.05	1.02	
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70	
GXR-6 Meas										59.4														
GXR-6 Cert										66.0														
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
SBC-1 1F2-assay Kamloops (%) Meas																								
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GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%)																								

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							
GBW 07238 1F2-assay Kamloops (%) Cert																							
GBW 07239 1F2-assay Kamloops (%) Meas																							
GBW 07239																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
1F2-assay Kamloops (%) Cert																							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas																							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert																							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas																							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert																							
OREAS 922 (AQUA REGIA) Meas	11.6	0.36	3.5	30	43	715	4.69	19.0	34.8	2150	247	7.34	0.1	5.8	25.8	13.9	18.4	8.8	0.8	0.68	0.690	0.23	3.98
OREAS 922 (AQUA REGIA) Cert	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
OREAS 922 (AQUA REGIA) Meas	11.6	0.36	3.3	31	44	700	4.60	19.3	34.8	2120	255	7.34	< 0.1	5.6	26.2	14.2	18.1	10.2	0.4	0.67	0.862	0.24	3.84
OREAS 922 (AQUA REGIA) Cert	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
OREAS 922 (AQUA REGIA) Meas										2130													
OREAS 922 (AQUA REGIA) Cert										2176													
OREAS 923 (AQUA REGIA) Meas	24.0	0.37	3.5	30	40	829	5.50	21.8	32.6	4270	318	7.64		6.4	23.0	12.8	17.5	21.8		0.81	1.64	0.41	5.90
OREAS 923 (AQUA REGIA) Cert	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
OREAS 923 (AQUA REGIA) Meas	23.1	0.42	3.6	32	43	851	6.25	23.0	33.4	4110	344	8.05		8.3	25.4	14.0	18.4	22.3		0.88	1.49	0.43	6.36
OREAS 923 (AQUA REGIA) Cert	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
OREAS 923										4320													

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert										4248													
SdAR-M2 (U.S.G.S.) Meas	0.89		1.9	15	8			12.5	46.0	238	753	3.25			18.0	19.1	15.4	6.2	2.1	12.6			
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3			
SdAR-M2 (U.S.G.S.) Meas	0.87		2.0	15	8			12.0	42.9	237	737	3.12			17.6	18.8	15.0	6.1	2.1	12.9			
SdAR-M2 (U.S.G.S.) Cert	1.05		4.1	25.2	49.6			12.4	48.8	236.00 00	760	17.6			149	144	32.7	259	26.2	13.3			
SdAR-M2 (U.S.G.S.) Meas										237													
SdAR-M2 (U.S.G.S.) Cert										236.00 00													
952212 Orig	0.15	0.25	2.7	53	17	684	2.19	4.7	8.5	7.36	182	7.59	< 0.1	2.8	11.2	28.7	4.45	0.6	1.0	0.65	6.68	0.02	1.15
952212 Dup	0.14	0.25	2.8	52	16	665	2.20	4.8	8.3	7.27	180	7.27	< 0.1	3.1	10.8	28.0	4.34	0.6	1.0	0.71	1.08	0.02	1.16
952226 Orig	0.33	0.26	4.1	110	26	511	7.14	9.2	12.3	36.9	404	10.00	< 0.1	10.1	12.0	37.6	5.40	4.6	1.7	3.25	1.91	0.06	0.99
952226 Dup	0.33	0.26	4.1	111	26	525	7.36	9.4	12.8	38.1	415	10.1	< 0.1	10.2	12.3	37.5	5.38	6.1	1.6	3.30	4.76	0.05	1.01
952251 Orig																							
952251 Dup																							
952253 Orig	0.82	0.57	2.6	54	12	2690	4.00	14.6	8.2	164	310	7.16	< 0.1	5.5	16.1	87.2	7.91	1.4	0.6	5.92	3.22	0.05	0.89
952253 Dup	0.84	0.61	2.5	56	11	2660	4.29	14.3	7.7	161	308	7.07	< 0.1	6.0	16.9	89.4	8.12	1.5	0.8	5.98	7.26	0.05	0.85
952265 Orig																							
952265 Dup																							
952276 Orig	0.23	0.18	0.4	64	10	2940	3.88	12.6	6.6	16.8	223	6.42	< 0.1	7.4	16.7	44.5	4.02	0.3	0.3	1.23	3.03	0.04	0.91
952276 Dup	0.22	0.17	0.4	64	10	2750	3.83	12.1	6.6	16.2	216	6.08	< 0.1	7.1	15.8	41.4	3.90	0.6	0.3	1.03	1.89	0.04	0.93
952290 Orig	0.54	0.38	1.0	78	5	884	3.89	6.1	2.2	31.3	161	11.1	< 0.1	4.6	11.5	59.4	5.46	0.5	0.5	2.96	1.73	0.03	0.78
952290 Dup	0.52	0.37	1.0	76	5	853	3.74	5.7	2.1	31.4	156	10.7	< 0.1	4.8	11.3	57.1	5.27	0.5	0.6	2.96	0.389	0.04	0.75
952302 Orig																							
952302 Dup																							
952315 Orig	0.09	0.28	1.3	53	4	2100	2.84	8.5	2.6	15.5	120	4.86	< 0.1	3.2	19.4	16.3	10.6	0.9	0.1	0.55	0.238	0.02	0.30
952315 Dup	0.09	0.29	1.0	53	4	2080	2.86	8.6	2.6	15.2	120	4.89	< 0.1	3.5	20.5	16.6	10.6	0.5	0.1	0.59	0.260	0.03	0.37
952327 Orig																							
952327 Dup																							
952331 Orig	0.21	0.17	1.0	58	8 > 10000	3.36	11.5	3.1	18.4	154	7.38	< 0.1	4.4	34.5	24.6	3.54	1.3	0.2	1.60	0.362	0.03	0.54	
952331 Dup	0.21	0.17	1.0	58	8 > 10000	3.47	12.0	2.9	19.0	158	7.40	< 0.1	4.2	35.1	25.8	3.60	1.3	0.3	1.72	0.378	0.02	0.57	
952345 Orig	0.73	1.32	5.0	115	146	1670	4.84	22.6	52.9	165	683	9.39	< 0.1	8.8	17.5	67.9	12.1	0.4	0.3	1.51	0.889	0.05	1.00
952345 Dup	0.69	1.31	5.1	113	147	1620	4.69	21.9	50.2	158	653	8.91	< 0.1	8.4	16.9	65.7	12.0	0.4	0.3	1.47	4.95	0.05	0.83
952355 Orig																							
952355 Dup																							
952358 Orig	0.35	0.56	3.0	72	27	754	3.01	6.1	7.2	28.7	152	9.09	< 0.1	3.5	12.5	72.3	4.89	0.2	0.7	1.99	0.082	0.04	1.08

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm								
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05		
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952358 Dup	0.37	0.54	3.0	74	27	763	3.05	6.0	7.2	28.8	153	9.31	< 0.1	4.2	12.9	72.6	5.02	0.2	0.9	2.01	0.153	0.04	1.05	
Method Blank	< 0.02	< 0.01	< 0.1	< 1	< 1	< 0.01	< 0.1	< 0.1	< 0.1	0.6	0.03	< 0.1	0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	0.03	0.003	< 0.02	0.06		
Method Blank											0.01													

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	79.6	13.0	2.46	122	4.6	9.72	2.43		5.79	2.0	14.4	0.5	3.4	0.6	4.3			0.4	2.0	0.3	0.2	< 0.05	138	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-1 Meas	78.5	13.4	2.41	121	4.7	9.52	2.49		5.51	2.0	16.4	0.5	3.3	0.6	4.3			0.3	1.8	0.2	0.2	< 0.05	135	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-1 Meas																								
GXR-1 Cert																								
GXR-6 Meas	1.79	0.06	3.28	923	9.8	29.1	0.09		10.2	2.0	0.1	0.5	1.9	0.2	1.5				0.7	0.1	0.2	< 0.05	< 0.1	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
GXR-6 Meas	1.49	0.04	3.03	864	9.1	26.8	0.10		9.19	1.8	0.3	0.5	1.7	0.2	1.4				0.7	< 0.1	0.2	< 0.05	< 0.1	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
GXR-6 Meas																								
GXR-6 Cert																								
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
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GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%)																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-1 1F2-assay Kamloops (%) Meas																								
GXR-1 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
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GBW 07238 1F2-assay Kamloops (%) Meas																								
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GBW 07239 1F2-assay Kamloops (%) Meas																								
GBW 07239																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm																							
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS																							
1F2-assay Kamloops (%) Cert																								
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas																								
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert																								
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas																								
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert																								
OREAS 922 (AQUA REGIA) Meas	0.63		1.82	81.1	34.3	69.8	0.29	8.3	29.6	5.3	2.1		5.1	0.7						< 0.1		0.7		
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12	
OREAS 922 (AQUA REGIA) Meas	0.64		1.90	81.1	33.8	68.8	0.25	8.2	29.0	5.1	2.9		4.8	0.7						< 0.1		0.9		
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12	
OREAS 922 (AQUA REGIA) Meas																								
OREAS 922 (AQUA REGIA) Cert																								
OREAS 923 (AQUA REGIA) Meas	0.59		1.50	61.0	30.0	60.9	0.37	7.2	25.8	4.8	4.7		4.3	0.6							0.2		1.7	
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54							0.60		1.96	
OREAS 923 (AQUA REGIA) Meas	0.68		1.68	66.5	31.8	64.5	0.46	7.6	26.9	4.9	6.6		4.5	0.6							0.3		1.6	
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54							0.60		1.96	
OREAS 923																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas			0.73	104	35.6	80.0	4.59	8.9	30.8	5.1		0.5	4.4	0.6	3.3	0.6	1.9	0.3	1.5	0.2	0.1	< 0.05	0.8
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8
SdAR-M2 (U.S.G.S.) Meas			0.69	100	35.0	78.3	4.70	8.5	29.4	4.9		0.5	4.0	0.5	3.2	0.5	1.7	0.2	1.3	0.2	0.1	< 0.05	0.7
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
952212 Orig	0.36	< 0.02	0.76	197	8.9	17.5	0.90	2.0	7.22	1.3	0.3	0.3	1.1	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952212 Dup	0.34	< 0.02	0.76	202	8.7	17.4	0.86	2.0	7.10	1.2	0.3	0.3	1.2	0.1	0.9	0.2	0.5	< 0.1	0.3	< 0.1	< 0.1	< 0.05	0.1
952226 Orig	0.45	0.17	1.32	147	8.5	17.0	0.93	1.9	6.79	1.3	0.7	0.4	1.3	0.2	1.1	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952226 Dup	0.47	0.18	1.39	151	8.4	16.8	1.00	1.9	6.84	1.3	0.7	0.3	1.3	0.2	1.1	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1
952251 Orig																							
952251 Dup																							
952253 Orig	0.46	0.35	0.92	180	12.9	27.4	1.27	2.9	10.5	1.9	0.5	0.5	1.8	0.3	1.7	0.3	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	< 0.1
952253 Dup	0.48	0.35	1.03	188	13.2	28.2	1.32	3.0	10.9	2.0	1.0	0.5	1.9	0.3	1.7	0.3	0.8	0.1	0.7	< 0.1	< 0.1	< 0.05	0.1
952265 Orig																							
952265 Dup																							
952276 Orig	0.33	0.11	1.10	363	10.3	26.1	1.86	2.4	8.79	1.6	0.8	0.4	1.5	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952276 Dup	0.33	0.06	1.05	336	10.0	25.3	1.75	2.4	8.78	1.7	0.6	0.4	1.3	0.2	0.9	0.2	0.5	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1
952290 Orig	0.39	0.44	0.86	57.7	7.7	17.4	0.69	1.7	6.30	1.3	1.1	0.4	1.2	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952290 Dup	0.39	0.50	0.91	56.8	7.6	16.8	0.71	1.6	6.27	1.2	1.2	0.3	1.2	0.2	1.0	0.2	0.6	< 0.1	0.5	< 0.1	< 0.1	< 0.05	< 0.1
952302 Orig																							
952302 Dup																							
952315 Orig	0.15	0.06	1.53	160	12.1	31.5	0.27	3.2	13.0	2.6	0.8	0.8	2.8	0.4	2.1	0.4	1.2	0.2	1.1	0.2	< 0.1	< 0.05	< 0.1
952315 Dup	0.17	0.05	1.86	167	12.5	32.1	0.23	3.3	13.2	2.7	0.4	0.8	2.8	0.4	2.2	0.4	1.3	0.2	1.2	0.2	< 0.1	< 0.05	< 0.1
952327 Orig																							
952327 Dup																							
952331 Orig	0.23	0.10	1.73	394	5.0	17.2	2.29	1.2	4.57	0.9	0.6	0.2	0.9	0.1	0.7	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952331 Dup	0.25	0.06	1.76	414	5.1	17.5	2.31	1.2	4.68	0.9	0.7	0.2	0.9	0.1	0.8	0.1	0.4	< 0.1	0.3	< 0.1	< 0.1	< 0.05	< 0.1
952345 Orig	0.30	0.39	1.62	90.7	12.0	27.2	4.43	3.2	12.6	2.7	0.9	0.7	2.7	0.4	2.3	0.4	1.3	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952345 Dup	0.31	0.39	1.60	86.4	11.5	26.0	3.97	3.1	12.0	2.5	0.9	0.7	2.6	0.4	2.2	0.4	1.2	0.2	0.9	0.1	< 0.1	< 0.05	< 0.1
952355 Orig																							
952355 Dup																							
952358 Orig	0.35	0.28	0.90	51.2	6.8	14.4	0.54	1.6	6.17	1.2	0.7	0.3	1.2	0.2	0.9	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
952358 Dup	0.37	0.26	0.98	53.1	6.9	14.4	0.49	1.7	6.41	1.2	0.6	0.3	1.2	0.2	0.9	0.2	0.6	< 0.1	0.4	< 0.1	< 0.1	< 0.05	< 0.1	
Method Blank	< 0.02	< 0.02	< 0.02	4.6	< 0.5	< 0.01	< 0.01	< 0.1	< 0.02	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1
Method Blank																								

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
GXR-1 Meas		3160	0.36	718	1.8	29.8	3810
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas		3060	0.35	705	1.7	27.1	3850
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-1 Meas							
GXR-1 Cert							
GXR-6 Meas		99.4	1.98	91.6	3.9	0.7	90
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas		38.1	1.72	85.3	3.5	0.6	90
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
GXR-6 Meas							
GXR-6 Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%)							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
1F2-assay Kamloops (%) Cert							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Meas							
SAR-M (U.S.G.S.)1F2-assay Kamloops (%) Cert							
OREAS 922 (AQUA REGIA) Meas		0.17	80.1	15.5	2.2		
OREAS 922 (AQUA REGIA) Cert		0.14	60	14.5	1.98		
OREAS 922 (AQUA REGIA) Meas		0.17	65.4	15.5	2.3		
OREAS 922 (AQUA REGIA) Cert		0.14	60	14.5	1.98		
OREAS 922 (AQUA REGIA) Meas							
OREAS 922 (AQUA REGIA) Cert							
OREAS 923 (AQUA REGIA) Meas		0.15	85.0	14.2	1.9		
OREAS 923 (AQUA REGIA) Cert		0.12	81	14.3	1.80		
OREAS 923 (AQUA REGIA) Meas		0.16	84.3	15.3	2.0		
OREAS 923 (AQUA REGIA) Cert		0.12	81	14.3	1.80		
OREAS 923							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
(AQUA REGIA) Meas							
OREAS 923 (AQUA REGIA) Cert							
SdAR-M2 (U.S.G.S.) Meas				712	10.0	1.3	1090
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas				696	9.9	1.2	1200
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
SdAR-M2 (U.S.G.S.) Meas							
SdAR-M2 (U.S.G.S.) Cert							
952212 Orig	< 0.001	< 0.5	0.05	211	0.7	0.5	20
952212 Dup	< 0.001	1.3	0.05	59.5	0.7	0.5	20
952226 Orig	0.001	1.2	0.09	77.9	3.0	0.7	50
952226 Dup	< 0.001	2.0	0.10	102	3.0	0.7	50
952251 Orig							
952251 Dup							
952253 Orig	< 0.001	2.1	0.11	188	0.5	1.1	10
952253 Dup	< 0.001	38.9	0.12	205	0.4	1.1	40
952265 Orig							
952265 Dup							
952276 Orig	< 0.001	2.6	0.06	65.0	< 0.1	0.7	20
952276 Dup	< 0.001	5.4	0.05	55.0	< 0.1	0.7	30
952290 Orig	< 0.001	1.3	0.09	82.5	0.2	0.7	40
952290 Dup	< 0.001	2.7	0.10	65.3	0.2	0.8	60
952302 Orig							
952302 Dup							
952315 Orig	< 0.001	3.3	0.12	15.9	0.3	0.7	30
952315 Dup	< 0.001	16.2	0.13	27.4	0.2	0.7	30
952327 Orig							
952327 Dup							
952331 Orig	< 0.001	11.3	0.31	176	0.3	0.6	80
952331 Dup	0.002	7.8	0.32	181	0.3	0.7	100
952345 Orig	< 0.001	4.6	0.09	338	0.4	1.5	50
952345 Dup	0.001	1.2	0.08	327	0.4	1.4	50
952355 Orig							
952355 Dup							
952358 Orig	0.001	4.8	0.09	39.9	0.4	0.6	10

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952358 Dup	0.001	1.4	0.09	41.5	0.3	0.6	10
Method Blank	< 0.001	< 0.5	< 0.02	3.01	< 0.1	< 0.1	< 10
Method Blank							

Quality Analysis ...



Innovative Technologies

Date Submitted: 20-Jul-17
Invoice No.: A17-07495 (i)
Invoice Date: 04-Aug-17
Your Reference: JOY

Amarc Resources Ltd.
1500-1040 W Georgia St.
Vancouver
BC V6E 4H1
Canada

ATTN: Eric Titley

CERTIFICATE OF ANALYSIS

23 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1F2-Assay-Kamloops Total Digestion ICP(TOTAL)

Code UT-1-Kamloops Aqua Regia ICP/MS

REPORT A17-07495 (i)

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:

Assays are recommended for values above the upper limit. The Au from AR-MS is only semi-quantitative. For accurate Au data, fire assay is recommended.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme , Ph.D.
Quality Control

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Results**Activation Laboratories Ltd.****Report: A17-07495**

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
952365	< 3.0	12.5	< 30	110	< 10	< 20	< 0.1	< 3	< 10	20	0.001	4.2	30	< 10	< 0.1	80	< 0.1	0.004	0.001	< 0.1	< 0.001	0.11	< 30
952366	< 3.0	9.4	< 30	1380	< 10	< 20	0.1	< 3	< 10	10	0.002	2.3	20	< 10	3.6	< 10	0.2	0.011	< 0.001	0.8	< 0.001	0.02	< 30
952367	< 3.0	8.1	< 30	1170	< 10	< 20	< 0.1	< 3	< 10	20	0.003	4.2	20	< 10	3.4	< 10	0.3	0.016	< 0.001	0.2	< 0.001	0.12	530
952368	5.1	2.4	< 30	< 70	< 10	< 20	1.5	< 3	< 10	40	0.005	8.3	< 10	< 10	0.3	20	< 0.1	0.119	0.007	< 0.1	< 0.001	0.05	90
952369	< 3.0	5.2	< 30	1490	< 10	< 20	0.8	12	< 10	50	0.013	4.0	< 10	< 10	2.8	10	0.1	0.062	< 0.001	1.1	< 0.001	0.06	1010
952370	< 3.0	4.0	160	680	< 10	< 20	0.3	< 3	20	20	0.004	15.1	10	< 10	< 0.1	40	1.6	0.620	< 0.001	< 0.1	< 0.001	0.03	< 30
952371	< 3.0	9.1	< 30	3010	< 10	< 20	0.2	< 3	10	30	< 0.001	4.4	10	< 10	4.7	< 10	0.2	0.035	< 0.001	2.1	< 0.001	0.10	< 30
952372	71.5	2.5	< 30	830	< 10	< 20	15.2	6	< 10	< 10	0.001	2.7	10	< 10	0.7	20	1.3	3.09	< 0.001	< 0.1	< 0.001	0.03	450
952373	< 3.0	9.8	< 30	1370	< 10	< 20	2.2	< 3	< 10	20	< 0.001	4.6	30	< 10	2.5	< 10	1.4	0.272	< 0.001	2.3	< 0.001	0.13	30
952374	< 3.0	10.1	< 30	2650	< 10	< 20	1.3	4	< 10	< 10	0.001	3.9	20	< 10	4.2	10	1.7	0.272	< 0.001	1.8	< 0.001	0.13	140
952375	< 3.0	9.7	< 30	1700	< 10	< 20	0.9	< 3	< 10	20	0.007	5.1	20	< 10	2.7	< 10	0.8	0.111	< 0.001	3.1	< 0.001	0.09	< 30
952376	< 3.0	4.1	< 30	26700	< 10	< 20	0.8	< 3	< 10	< 10	< 0.001	1.1	< 10	< 10	1.8	< 10	0.2	0.039	< 0.001	0.9	< 0.001	0.02	< 30
952377	< 3.0	8.9	< 30	1390	< 10	< 20	1.2	< 3	< 10	20	0.079	3.5	20	< 10	3.5	< 10	0.6	0.078	< 0.001	1.8	< 0.001	0.09	80
952378	4.4	8.8	< 30	1190	< 10	< 20	1.9	< 3	< 10	10	0.019	3.3	20	20	2.8	< 10	0.8	0.114	< 0.001	2.0	< 0.001	0.07	50
952379	8.3	6.2	< 30	450	< 10	< 20	5.9	< 3	30	40	0.192	12.0	20	10	0.4	< 10	0.1	0.336	0.001	< 0.1	< 0.001	0.03	70
952380	< 3.0	3.0	< 30	240	< 10	< 20	12.5	< 3	10	20	0.004	3.6	< 10	< 10	0.5	10	0.8	0.861	< 0.001	< 0.1	< 0.001	0.02	< 30
952381	< 3.0	7.6	< 30	1230	< 10	< 20	0.9	< 3	< 10	40	0.002	2.6	20	< 10	3.1	< 10	0.3	0.080	< 0.001	1.5	< 0.001	0.06	430
952382	< 3.0	7.2	40	370	< 10	< 20	2.0	< 3	< 10	30	0.041	3.6	20	< 10	1.2	< 10	0.8	0.129	< 0.001	1.8	< 0.001	0.07	< 30
952383	< 3.0	8.6	< 30	1840	< 10	< 20	0.1	< 3	10	30	< 0.001	5.4	20	< 10	4.5	< 10	0.4	0.038	< 0.001	0.3	< 0.001	0.03	< 30
952384	< 3.0	10.1	< 30	2460	< 10	< 20	2.3	< 3	< 10	10	0.006	4.1	20	< 10	2.9	< 10	0.9	0.144	< 0.001	2.3	< 0.001	0.13	< 30
952385	< 3.0	9.2	< 30	1810	< 10	< 20	0.6	< 3	< 10	40	0.002	4.0	20	< 10	2.8	< 10	0.8	0.123	< 0.001	3.0	< 0.001	0.10	< 30
745930	< 3.0	7.5	< 30	760	< 10	< 20	1.8	< 3	< 10	40	0.102	3.9	20	< 10	2.1	< 10	0.7	0.083	< 0.001	2.2	< 0.001	0.07	< 30
745931	< 3.0	6.0	< 30	530	< 10	< 20	1.6	< 3	10	60	0.002	2.5	10	< 10	1.1	10	0.8	0.057	< 0.001	1.6	0.004	0.06	< 30

Results

Activation Laboratories Ltd.

Report: A17-07495

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS																		
952365	4.6	< 50	< 40	1460	< 20	0.3	< 50	< 100	180	< 50	< 10	< 0.001	90	0.004	4	0.003	31.0	0.1	< 1	0.041	< 0.01	5.12	0.01
952366	0.9	< 50	< 40	180	< 20	0.4	< 50	< 100	110	< 50	20	0.001	110	0.007	< 1	0.011	2.6	0.4	4	0.249	0.10	3.02	1.29
952367	< 0.1	< 50	< 40	60	< 20	0.3	< 50	< 100	130	< 50	10	0.004	70	0.018	< 1	0.121	1.9	0.3	2	0.104	0.17	3.16	1.54
952368	< 0.1	< 50	< 40	200	< 20	0.1	< 50	< 100	70	< 50	< 10	0.015	< 50	0.078	< 1	0.037	1.6	0.3	3	0.055	0.04	1.61	0.19
952369	2.9	< 50	< 40	210	< 20	0.2	< 50	< 100	40	< 50	< 10	0.147	< 50	0.084	3	0.049	1.0	0.3	2	0.123	0.07	0.92	0.36
952370	2.5	< 50	< 40	20	< 20	< 0.1	< 50	< 100	50	90	10	0.039	< 50	0.011	2	0.018	10.4	0.2	< 1	0.020	1.32	2.82	0.01
952371	2.1	< 50	< 40	280	< 20	0.3	< 50	< 100	50	< 50	< 10	0.004	70	0.005	2	0.066	1.0	0.2	4	0.223	0.13	1.44	0.79
952372	1.5	< 50	< 40	200	< 20	< 0.1	< 50	< 100	50	< 50	10	0.090	< 50	0.005	1	0.020	7.0	0.3	3	0.040	1.08	1.55	0.35
952373	1.1	< 50	< 40	350	< 20	0.4	< 50	< 100	130	< 50	20	0.015	90	0.029	< 1	0.093	4.6	0.3	5	0.173	1.18	2.45	0.30
952374	2.9	< 50	< 40	410	< 20	0.4	< 50	< 100	120	< 50	20	0.019	90	0.172	3	0.092	6.8	0.4	2	0.145	1.36	1.84	0.36
952375	4.6	< 50	< 40	510	< 20	0.4	< 50	< 100	100	< 50	20	0.006	120	0.290	4	0.069	4.0	0.3	4	0.298	0.67	1.76	0.47
952376	0.8	< 50	< 40	1440	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	0.005	70	0.003	< 1	0.017	1.2	0.4	3	0.070	0.13	1.03	0.48
952377	2.2	< 50	< 40	290	30	0.3	< 50	< 100	80	< 50	20	0.033	< 50	0.105	2	0.062	1.2	0.3	2	0.098	0.46	1.31	0.42
952378	0.5	< 50	< 40	350	< 20	0.3	< 50	< 100	70	< 50	10	0.035	< 50	0.147	< 1	0.057	1.6	0.3	1	0.102	0.64	1.57	0.28
952379	6.6	< 50	< 40	670	30	< 0.1	< 50	< 100	60	< 50	30	0.011	< 50	0.046	5	0.019	1.4	0.5	2	0.034	0.10	2.68	0.17
952380	0.6	< 50	< 40	210	< 20	< 0.1	< 50	< 100	20	< 50	10	0.019	< 50	0.005	< 1	0.013	4.8	0.3	2	0.026	0.68	1.68	0.20
952381	0.3	< 50	< 40	160	< 20	0.2	< 50	< 100	40	< 50	< 10	0.009	< 50	0.046	< 1	0.040	1.2	0.2	2	0.175	0.23	2.00	0.79
952382	0.6	< 50	< 40	250	< 20	0.2	< 50	< 100	60	< 50	< 10	0.020	< 50	0.072	< 1	0.057	2.7	0.3	2	0.161	0.70	2.00	0.35
952383	3.4	< 50	< 40	50	< 20	0.2	< 50	< 100	130	< 50	< 10	0.002	80	0.079	3	0.016	1.2	0.2	< 1	0.079	0.11	1.68	0.98
952384	1.5	< 50	< 40	500	< 20	0.3	< 50	< 100	110	< 50	20	0.008	100	0.262	1	0.100	6.6	0.5	3	0.225	0.83	2.04	0.27
952385	0.9	< 50	< 40	340	< 20	0.3	< 50	< 100	70	< 50	10	0.006	70	0.176	< 1	0.066	3.3	0.3	2	0.316	0.69	1.59	0.40
745930	0.5	< 50	< 40	200	< 20	0.2	< 50	< 100	60	< 50	10	0.007	70	0.115	< 1	0.061	2.2	0.4	6	0.097	0.64	1.18	0.19
745931	< 0.1	< 50	< 40	220	< 20	0.2	< 50	< 100	70	< 50	20	0.007	60	0.154	< 1	0.052	7.2	0.3	10	0.130	0.60	1.38	0.12

Results

Activation Laboratories Ltd.

Report: A17-07495

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm													
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952365	1.48	0.03	0.9	72	6	20	3.60	4.5	1.1	7.16	1.6	5.29	< 0.1	2.8	0.3	73.4	0.24	7.3	< 0.1	20.6	0.078	< 0.02	0.40
952366	0.29	0.05	3.7	37	6	77	2.05	1.7	1.9	10.5	3.9	3.98	< 0.1	2.1	41.4	48.6	5.78	21.0	< 0.1	2.33	0.098	< 0.02	0.63
952367	1.46	0.02	4.6	52	11	108	3.63	0.3	1.0	21.8	15.8	3.64	< 0.1	6.7	52.9	25.4	2.94	2.0	< 0.1	5.06	0.272	0.14	0.91
952368	4.22	1.31	2.9	57	14	905	7.67	4.3	3.0	31.5	92.4	4.48	0.1	11.2	11.9	177	7.38	8.6	< 0.1	93.1	4.60	0.09	0.82
952369	0.04	0.52	3.4	20	22	391	3.54	3.1	2.4	96.2	942	2.05	< 0.1	10.8	13.3	70.2	5.14	10.2	0.4	13.9	1.06	0.02	0.39
952370	0.50	0.27	2.8	45	4	5750	14.9	12.0	0.9	28.8	251	8.45	0.1	175	0.6	12.1	9.91	6.2	< 0.1	10.2	1.01	0.12	0.50
952371	0.54	0.11	3.2	18	17	260	3.51	6.0	1.9	3.15	18.2	2.60	< 0.1	0.2	23.8	25.5	3.43	11.1	< 0.1	7.37	0.107	< 0.02	0.37
952372	0.03	15.6	2.0	44	< 1	> 10000	2.55	2.5	3.5	7.80	596	3.65	< 0.1	24.9	15.1	199	10.9	6.2	< 0.1	1.49	74.2	< 0.02	0.24
952373	0.32	1.11	5.7	67	7	1930	3.39	5.3	1.7	4.69	85.5	5.82	< 0.1	5.4	9.0	82.6	8.78	3.8	< 0.1	2.01	1.46	0.03	0.45
952374	0.58	0.63	6.4	76	1	2030	3.23	5.7	1.6	4.33	109	4.63	< 0.1	4.4	13.3	34.9	11.7	30.6	0.5	2.12	1.29	0.04	0.69
952375	2.32	0.46	8.0	62	9	831	4.63	4.4	1.5	48.5	39.8	5.55	< 0.1	1.6	19.2	44.0	12.2	29.4	0.7	2.48	0.543	0.05	0.63
952376	0.04	0.71	0.8	9	1	283	0.80	1.0	1.3	6.10	28.5	1.56	< 0.1	0.2	19.0	794	3.52	11.6	< 0.1	0.25	0.062	< 0.02	0.38
952377	0.07	0.56	3.1	33	14	509	2.79	5.3	2.1	673	213	3.44	< 0.1	< 0.1	16.4	47.1	12.3	4.6	0.2	8.25	1.84	< 0.02	0.82
952378	1.46	0.86	3.8	44	6	821	2.53	2.7	2.2	167	234	4.22	< 0.1	0.4	9.7	85.7	8.95	7.0	0.3	9.95	2.22	< 0.02	0.68
952379	6.82	2.15	1.7	35	23	1910	9.90	24.1	2.8	1640	69.9	7.91	0.2	3.2	8.1	338	14.9	4.5	0.2	25.2	7.91	0.11	0.53
952380	0.35	12.2	1.3	17	6	7360	3.10	7.8	4.2	33.2	135	2.79	< 0.1	0.3	8.3	184	10.4	2.0	< 0.1	7.02	0.262	0.04	0.28
952381	1.27	0.55	2.5	23	23	577	2.09	1.4	2.4	13.6	57.1	4.24	< 0.1	0.3	29.9	46.8	4.93	3.8	< 0.1	5.76	0.888	< 0.02	0.42
952382	1.20	1.23	2.7	35	9	893	2.94	3.7	3.5	366	145	5.53	< 0.1	34.9	15.9	123	5.74	3.8	< 0.1	2.84	2.75	0.05	0.59
952383	1.97	0.04	2.0	35	16	231	4.00	10.9	1.5	5.89	4.9	3.31	< 0.1	0.3	35.6	10.3	1.90	13.6	0.1	5.87	0.174	0.02	0.56
952384	0.72	1.21	6.1	98	2	1290	3.78	7.1	1.5	51.9	56.9	6.14	< 0.1	2.5	12.0	94.0	14.0	21.0	0.6	1.93	0.048	0.04	0.64
952385	0.53	0.32	5.7	54	23	1020	3.48	3.8	3.0	16.9	39.6	4.72	< 0.1	1.0	16.2	54.5	8.15	12.8	0.5	2.71	0.226	0.03	0.47
745930	0.50	1.18	5.2	41	19	683	3.79	5.3	11.4	915	48.6	3.36	< 0.1	2.9	5.5	58.4	11.1	8.0	0.4	6.52	0.242	0.05	1.53
745931	0.07	0.89	5.6	57	45	407	2.12	8.9	24.0	19.2	32.5	3.45	< 0.1	3.7	5.3	51.4	8.86	10.2	0.2	2.78	< 0.002	0.02	0.54

Results

Activation Laboratories Ltd.

Report: A17-07495

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm																						
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS																						
952365	0.34	1.66	0.05	16.1	0.8	1.56	0.03	0.2	0.82	0.1	0.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	0.2	< 0.05	0.2
952366	0.33	0.14	1.08	43.6	10.3	20.9	0.23	2.9	11.3	1.9	< 0.1	0.4	1.4	0.2	0.8	0.1	0.5	< 0.1	0.7	0.1	0.3	< 0.05	0.1	
952367	0.19	0.54	0.77	573	5.5	12.4	0.16	1.8	7.63	1.4	1.3	0.2	0.9	0.1	0.4	< 0.1	0.3	< 0.1	0.4	< 0.1	< 0.1	< 0.05	0.1	
952368	1.57	3.20	0.29	61.3	4.5	7.42	0.38	1.0	4.37	1.0	1.6	0.6	1.3	0.2	0.7	0.1	0.4	< 0.1	0.5	< 0.1	0.2	< 0.05	0.3	
952369	0.95	0.33	0.20	11.2	6.4	12.1	11.6	1.5	5.95	1.1	0.5	0.5	1.2	0.2	0.7	0.1	0.4	< 0.1	0.6	< 0.1	0.3	< 0.05	0.7	
952370	1.30	0.11	0.06	9.4	19.2	37.0	0.10	4.4	17.8	3.4	0.7	0.8	2.9	0.4	1.4	0.2	0.7	< 0.1	0.7	0.1	0.1	< 0.05	50.9	
952371	0.27	0.22	0.51	12.2	2.8	7.36	0.13	1.1	4.83	0.9	< 0.1	0.3	0.9	0.1	0.5	< 0.1	0.3	< 0.1	0.5	< 0.1	0.2	< 0.05	0.2	
952372	0.57	0.11	0.41	69.8	13.2	21.0	7.41	2.8	11.4	2.2	0.4	3.5	2.4	0.3	1.3	0.2	0.7	< 0.1	0.8	0.1	0.2	< 0.05	0.6	
952373	0.54	0.79	0.32	28.5	8.1	16.5	0.37	2.2	9.05	1.8	0.7	0.6	1.8	0.3	1.2	0.2	0.8	0.1	1.0	0.1	< 0.1	< 0.05	< 0.1	
952374	0.28	0.75	0.25	14.2	9.4	18.8	2.59	2.6	10.5	2.2	< 0.1	0.6	2.5	0.4	1.7	0.3	1.0	0.1	1.2	0.2	0.8	< 0.05	0.5	
952375	0.35	0.48	0.43	10.9	7.0	16.0	0.64	2.4	10.2	2.3	0.3	0.7	2.4	0.4	1.7	0.3	1.0	0.2	1.3	0.2	0.7	< 0.05	0.4	
952376	0.13	0.09	0.69	359	4.3	9.63	0.38	1.4	4.91	0.9	0.6	0.2	0.8	0.1	0.5	< 0.1	0.3	< 0.1	0.4	< 0.1	0.2	< 0.05	< 0.1	
952377	0.30	0.21	0.26	15.1	8.5	18.3	2.57	2.6	10.5	2.2	2.9	0.5	2.3	0.3	1.7	0.3	1.1	0.2	1.4	0.2	0.2	< 0.05	0.6	
952378	0.36	0.42	0.26	63.9	7.0	14.0	1.83	1.8	7.41	1.5	2.5	0.4	1.6	0.2	1.2	0.2	0.7	0.1	1.0	0.2	0.3	< 0.05	0.4	
952379	1.52	5.03	0.55	18.7	7.6	14.3	0.63	2.0	9.00	2.2	7.0	1.1	2.7	0.4	2.0	0.4	1.2	0.2	1.4	0.2	0.2	< 0.05	0.4	
952380	0.50	0.14	0.35	205	9.1	15.9	1.01	2.1	8.62	1.9	0.7	0.9	2.0	0.3	1.4	0.3	0.8	0.1	0.8	0.1	< 0.1	< 0.05	0.2	
952381	0.26	0.24	0.57	202	4.0	7.78	0.33	1.0	4.02	0.8	0.7	0.2	0.8	0.1	0.7	0.1	0.4	< 0.1	0.6	< 0.1	0.1	< 0.05	< 0.1	
952382	0.61	1.33	0.34	83.2	3.8	7.90	1.59	1.2	4.82	1.1	1.5	0.3	1.1	0.2	0.7	0.1	0.4	< 0.1	0.5	< 0.1	0.1	< 0.05	0.3	
952383	0.16	1.40	0.40	9.8	0.5	1.72	0.06	0.3	1.39	0.3	2.5	< 0.1	0.3	< 0.1	0.2	< 0.1	0.2	< 0.1	0.2	< 0.1	0.2	< 0.05	0.8	
952384	0.49	0.43	0.33	19.8	8.2	17.3	0.16	2.5	10.6	2.2	0.9	0.6	2.3	0.3	1.7	0.3	1.0	0.1	1.0	0.1	0.4	< 0.05	0.4	
952385	0.14	0.42	0.30	37.1	9.2	18.1	0.11	2.4	9.27	1.7	0.6	0.4	1.6	0.2	1.1	0.2	0.6	< 0.1	0.6	< 0.1	0.3	< 0.05	0.8	
745930	1.50	0.10	0.31	130	6.7	13.1	0.19	1.8	7.27	1.5	2.7	0.4	1.7	0.2	1.4	0.3	0.8	0.1	1.0	0.1	0.2	< 0.05	3.2	
745931	0.38	0.06	0.33	124	5.4	11.2	0.12	1.7	7.40	1.5	0.7	0.4	1.7	0.2	1.3	0.2	0.7	< 0.1	0.7	< 0.1	0.2	< 0.05	25.1	

Results**Activation Laboratories Ltd.****Report: A17-07495**

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
952365	0.012	45.4	0.09	6.58	0.6	0.3	220
952366	0.014	25.6	0.31	10.5	1.8	1.2	< 10
952367	0.012	17.4	1.06	445	2.2	1.0	20
952368	0.016	21.7	0.14	64.8	0.6	0.4	< 10
952369	0.019	27.5	0.16	947	1.6	0.9	< 10
952370	0.017	665	< 0.02	18.0	0.9	0.6	< 10
952371	0.017	13.0	0.23	8.04	1.3	1.1	< 10
952372	0.014	192	0.19	470	0.8	0.5	< 10
952373	0.018	36.4	0.12	32.5	2.3	1.2	< 10
952374	0.017	43.0	0.12	119	2.3	1.1	< 10
952375	0.012	24.8	0.13	9.87	2.0	1.3	< 10
952376	0.015	2.9	0.12	2.85	1.5	0.7	< 10
952377	0.014	8.9	0.14	68.7	1.9	0.9	< 10
952378	0.015	10.2	0.07	47.7	2.7	0.7	< 10
952379	0.018	14.2	0.08	62.7	0.8	0.5	20
952380	0.015	15.4	0.07	18.7	0.8	0.2	< 10
952381	0.014	128	0.23	375	1.6	0.5	< 10
952382	0.018	22.3	0.10	26.4	1.0	0.4	< 10
952383	0.015	5.5	0.18	2.60	0.1	0.2	< 10
952384	0.012	5.5	0.08	6.87	1.4	0.9	< 10
952385	0.012	16.3	0.08	13.6	2.4	0.8	< 10
745930	0.022	72.8	0.03	5.06	1.9	0.4	200
745931	0.006	< 0.5	0.04	3.04	1.1	0.3	< 10

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb		
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	%	ppm	
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30		
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP																				
GXR-1 Meas																									
GXR-1 Cert																									
GXR-6 Meas																									
GXR-6 Cert																									
MP-1b Meas	43.0		19900			770	1.0	637			3.00	8.0					< 0.1		< 0.001				20600		
MP-1b Cert	47.0		23000.	00		954.00	00	2.47	527.00	00		3.07	8.19				0.024		0.03				20900		
SDC-1 1F2 Assay (%) Meas			< 30	630	< 10				20	50	0.004					40		0.089			0.004		< 30		
SDC-1 1F2 Assay (%) Cert			0.220	630	3.00				18	64.0	0.0030					34.0		0.088			0.0038		25.0		
SBC-1 1F2-assay Kamloops (%) Meas			< 30	770	< 10	< 20		< 3	20	120	0.003		30			170		0.128	< 0.001		0.009		< 30		
SBC-1 1F2-assay Kamloops (%) Cert			25.7	788	3.20	0.700		0.400	22.7	109	0.0031		27.0			163		0.116	0.00024		0.00828		35.0		
DNC-1a 1F2-assay Kamloops (%) Meas			100						60	260	0.009					< 10		0.129			0.028				
DNC-1a 1F2-assay Kamloops (%) Cert			118						57.0	270	0.01					5.20		0.116			0.0247				
GXR-6 1F2-assay Kamloops (%) Meas	< 3.0	15.9	310	1320	< 10	< 20	0.2	< 3	10	100	0.006	5.4	40	< 10	1.9	40	0.6	0.117	< 0.001	< 0.1	0.002	0.05	100		
GXR-6 1F2-assay Kamloops (%) Cert	1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	0.0066	5.58	35.0	0.0680	1.87	32.0	0.609	0.1007	0.00024	0.104	0.0027	0.0350	101		
GXR-1 1F2-assay Kamloops (%) Meas	31.3	3.1	460	710	< 10	1230	0.9	4	< 10	30	0.120	25.1	10	< 10	< 0.1	< 10	0.2	0.104	0.001	< 0.1	0.005	0.08	840		
GXR-1 1F2-assay Kamloops (%) Cert	31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	0.111	23.6	13.8	3.90	0.0500	8.20	0.217	0.0852	0.0018	0.0520	0.0041	0.0650	730		
OREAS 14P 1F2-assay Kamloops (%) Meas									690		0.975	35.6										2.19			
OREAS 14P 1F2-assay Kamloops (%) Cert									750		0.997	37.2										2.10			
GBW 07238 1F2-assay Kamloops (%) Meas			< 30								0.010		20								1.17	1.31		0.002	< 30

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Li	Mg	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm
Lower Limit	3.0	0.1	30	70	10	20	0.1	3	10	10	0.001	0.1	10	10	0.1	10	0.1	0.001	0.001	0.1	0.001	0.01	30
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP										
GBW 07238 1F2-assay Kamloops (%) Cert			1.60								0.00936		25.0					1.08	1.51				18.7
GBW 07239 1F2-assay Kamloops (%) Meas			< 30			< 20			10		0.007		30					1.25	0.099		0.003		< 30
GBW 07239 1F2-assay Kamloops (%) Cert			1.0			1.0			13.5		0.00486		23.1					1.15	0.110		0.00209		26.1
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 923 (AQUA REGIA) Meas																							
OREAS 923 (AQUA REGIA) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
952377 Orig																							
952377 Dup																							
952380 Orig	< 3.0	3.0	< 30	240	< 10	< 20	12.5	< 3	10	20	0.004	3.6	< 10	< 10	0.5	10	0.8	0.861	< 0.001	< 0.1	< 0.001	0.02	< 30
952380 Dup	< 3.0	3.0	< 30	240	< 10	< 20	12.5	< 3	10	30	0.004	3.6	< 10	< 10	0.5	10	0.8	0.861	< 0.001	< 0.1	< 0.001	0.02	< 30
Method Blank	< 3.0	< 0.1	< 30	< 70	< 10	< 20	< 0.1	< 3	< 10	< 10	< 0.001	< 0.1	< 10	< 10	< 0.1	< 10	< 0.1	< 0.001	< 0.1	< 0.001	< 0.1	< 0.01	< 30
Method Blank																							

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K	
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%	
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
GXR-1 Meas															0.007	< 1	0.037	4.1	0.8	10	0.047	0.12	0.30	0.02
GXR-1 Cert															0.036	0.257	0.0650	8.20	1.22	15.0	0.0520	0.217	3.52	0.050
GXR-6 Meas															< 1	0.034	23.3	0.9	6	0.082	0.39	7.08	1.12	
GXR-6 Cert															0.0160	0.0350	32.0	1.40	9.80	0.104	0.609	17.7	1.87	
MP-1b Meas	36.0									620														
MP-1b Cert	13.79									1100.000														
SDC-1 1F2 Assay (%) Meas		< 50	< 40	170					40	< 50		0.011	< 50											
SDC-1 1F2 Assay (%) Cert		0.540	17.0	180					102	0.80		0.0103	290											
SBC-1 1F2-assay Kamloops (%) Meas		< 50	< 40	180			< 50	< 100	220	< 50	40	0.020	150											
SBC-1 1F2-assay Kamloops (%) Cert		1.01	20.0	178			0.890	5.76	220	1.60	36.5	0.0186	134											
DNC-1a 1F2-assay Kamloops (%) Meas		< 50	< 40	140					140		20	0.007	< 50											
DNC-1a 1F2-assay Kamloops (%) Cert		0.960	31.0	144					148.000		18.0	0.007	38.0											
GXR-6 1F2-assay Kamloops (%) Meas	< 0.1	< 50	< 40	40	< 20		< 50	< 100	180	< 50	10	0.013	130											
GXR-6 1F2-assay Kamloops (%) Cert	0.0160	3.60	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	0.0118	110											
GXR-1 1F2-assay Kamloops (%) Meas	0.3	< 50	< 40	290	< 20		< 50	< 100	90	160	30	0.084	< 50											
GXR-1 1F2-assay Kamloops (%) Cert	0.257	122	1.58	275	13.0		0.390	34.9	80.0	164	32.0	0.076	38.0											
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas										1320	10	0.008												

Analyte Symbol	S	Sb	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ti	S	P	Li	Be	B	Na	Mg	Al	K
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	50	40	10	20	0.1	50	100	20	50	10	0.001	50	0.001	1	0.001	0.1	0.1	1	0.001	0.01	0.01	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS									
GBW 07238 1F2-assay Kamloops (%) Cert										3600	11.4	0.00655											
GBW 07239 1F2-assay Kamloops (%) Meas										800	40	0.013											
GBW 07239 1F2-assay Kamloops (%) Cert										1000.00	34.2	0.012											
OREAS 922 (AQUA REGIA) Meas														< 1	0.067	26.3	1.1		0.034	1.35	2.85	0.47	
OREAS 922 (AQUA REGIA) Cert														0.386	0.063	22.8	0.65		0.021	1.33	2.72	0.376	
OREAS 923 (AQUA REGIA) Meas														< 1	0.062	27.9	0.9			1.47	2.94	0.40	
OREAS 923 (AQUA REGIA) Cert														0.684	0.061	23.4	0.61			1.43	2.80	0.322	
SdAR-M2 (U.S.G.S.) Meas																12.4	4.7						
SdAR-M2 (U.S.G.S.) Cert																17.9	6.6						
952377 Orig														0.102	2	0.061	1.2	0.3	2	0.097	0.45	1.29	0.41
952377 Dup														0.108	2	0.063	1.2	0.2	2	0.099	0.48	1.34	0.42
952380 Orig	0.6	< 50	< 40	210	< 20	< 0.1	< 50	< 100	20	< 50	10	0.019	< 50										
952380 Dup	0.6	< 50	< 40	210	< 20	< 0.1	< 50	< 100	20	< 50	10	0.019	< 50										
Method Blank	< 0.1	< 50	< 40	< 10	< 20	< 0.1	< 50	< 100	< 20	< 50	< 10	< 0.001	< 50										
Method Blank														< 0.001	< 1	< 0.001	< 0.1	< 0.1	< 1	0.014	< 0.01	< 0.01	< 0.01

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm															
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS																						
GXR-1 Meas	1480	0.79	1.4	75	6	928	24.8	8.0	36.8	1190	793	4.00		458	2.4	219	28.6	12.3	< 0.1	19.1	28.8	0.66	23.5
GXR-1 Cert	1380	0.960	1.58	80.0	12.0	852	23.6	8.20	41.0	1110	760	13.8		427	14.0	275	32.0	38.0	0.800	18.0	31.0	0.770	54.0
GXR-6 Meas	0.17	0.15	22.1	157	70	1020	5.28	11.9	18.9	59.6	106	11.6		233	62.3	31.5	6.15	11.7	< 0.1	1.79	0.206	0.05	1.13
GXR-6 Cert	0.290	0.180	27.6	186	96.0	1010	5.58	13.8	27.0	66.0	118	35.0		330	90.0	35.0	14.0	110	7.50	2.40	1.30	0.260	1.70
MP-1b Meas																							
MP-1b Cert																							
SDC-1 1F2 Assay (%) Meas																							
SDC-1 1F2 Assay (%) Cert																							
SBC-1 1F2-assay Kamloops (%) Meas																							
SBC-1 1F2-assay Kamloops (%) Cert																							
DNC-1a 1F2-assay Kamloops (%) Meas																							
DNC-1a 1F2-assay Kamloops (%) Cert																							
GXR-6 1F2-assay Kamloops (%) Meas																							
GXR-6 1F2-assay Kamloops (%) Cert																							
GXR-1 1F2-assay Kamloops (%) Meas																							
GXR-1 1F2-assay Kamloops (%) Cert																							
OREAS 14P 1F2-assay Kamloops (%) Meas																							
OREAS 14P 1F2-assay Kamloops (%) Cert																							
GBW 07238 1F2-assay Kamloops (%) Meas																							

Analyte Symbol	Bi	Ca	Sc	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.01	0.1	1	1	1	0.01	0.1	0.1	0.01	0.1	0.02	0.1	0.1	0.1	0.5	0.01	0.1	0.1	0.01	0.002	0.02	0.05
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GBW 07238																							
1F2-assay																							
Kamloops (%)																							
Cert																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Meas																							
GBW 07239																							
1F2-assay																							
Kamloops (%)																							
Cert																							
OREAS 922	11.2	0.40	4.1	33	43	784	5.37	21.6	37.4	2560	292	7.72	0.1	5.4	30.3	15.8	20.1	10.9	0.7	0.69	0.600	0.23	4.38
(AQUA REGIA)																							
Meas																							
OREAS 922	10.3	0.324	3.15	29.4	40.7	730	5.05	19.4	34.3	2176	256	7.62	0.10	6.12	22.7	15.0	16.0	22.3	0.35	0.69	0.851	0.24	3.83
(AQUA REGIA)																							
Cert																							
OREAS 923	22.0	0.40	4.0	33	39	873	5.91	25.3	35.2	5240	400	8.47		6.7	26.9	14.7	18.9	22.4		0.79	1.70	0.44	6.69
(AQUA REGIA)																							
Meas																							
OREAS 923	21.8	0.326	3.09	30.6	39.4	850	5.91	22.2	32.7	4248	335	8.01		7.07	19.6	13.6	14.3	22.5		0.84	1.62	0.45	5.99
(AQUA REGIA)																							
Cert																							
SdAR-M2	1.13		2.2	16	6			11.5	39.9	232	717	2.60			18.1	19.6	15.4	7.3	2.4	13.1			
(U.S.G.S.) Meas																							
SdAR-M2	1.05		4.1	25.2	49.6			12.4	48.8	236.00	760	17.6			149	144	32.7	259	26.2	13.3			
(U.S.G.S.) Cert																							
952377 Orig	0.07	0.56	3.0	32	13	500	2.76	5.3	2.0	657	205	3.36	< 0.1	< 0.1	15.6	44.5	11.9	4.3	0.2	8.06	1.72	0.02	0.56
952377 Dup	0.08	0.57	3.1	34	14	518	2.82	5.4	2.2	690	222	3.51	< 0.1	< 0.1	17.2	49.8	12.8	4.9	0.2	8.44	1.95	< 0.02	1.08
952380 Orig																							
952380 Dup																							
Method Blank																							
Method Blank	< 0.02	< 0.01	< 0.1	< 1	< 1	< 0.01	< 0.1	0.1	0.09	0.4	< 0.02	< 0.1	< 0.1	< 0.1	< 0.5	< 0.01	< 0.1	< 0.1	< 0.01	< 0.002	< 0.02	0.07	

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	83.6	13.0	2.75	205	4.9	9.51	2.45		6.26	2.1	15.7	0.5	3.3	0.6	4.3			0.3	1.7	0.2	0.2	< 0.05	131	
GXR-1 Cert	122	13.0	3.00	750	7.50	17.0	3.30		18.0	2.70	16.6	0.690	4.20	0.830	4.30			0.430	1.90	0.280	0.960	0.175	164	
GXR-6 Meas	1.90	0.11	3.59	1030	9.9	27.9	0.17		10.8	2.0	0.3	0.5	1.9	0.3	1.4				0.7	< 0.1	0.2	< 0.05	< 0.1	
GXR-6 Cert	3.60	0.0180	4.20	1300	13.9	36.0	1.00		13.0	2.67	0.940	0.760	2.97	0.415	2.80				2.40	0.330	4.30	0.485	1.90	
MP-1b Meas																								
MP-1b Cert																								
SDC-1 1F2 Assay (%) Meas																								
SDC-1 1F2 Assay (%) Cert																								
SBC-1 1F2-assay Kamloops (%) Meas																								
SBC-1 1F2-assay Kamloops (%) Cert																								
DNC-1a 1F2-assay Kamloops (%) Meas																								
DNC-1a 1F2-assay Kamloops (%) Cert																								
GXR-6 1F2-assay Kamloops (%) Meas																								
GXR-6 1F2-assay Kamloops (%) Cert																								
GXR-1 1F2-assay Kamloops (%) Meas																								
GXR-1 1F2-assay Kamloops (%) Cert																								
OREAS 14P 1F2-assay Kamloops (%) Meas																								
OREAS 14P 1F2-assay Kamloops (%) Cert																								
GBW 07238 1F2-assay Kamloops (%) Meas																								

Analyte Symbol	Sb	Te	Cs	Ba	La	Ce	Cd	Pr	Nd	Sm	Se	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.02	0.02	0.02	0.5	0.5	0.01	0.01	0.1	0.02	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GBW 07238 1F2-assay Kamloops (%) Cert																								
GBW 07239 1F2-assay Kamloops (%) Meas																								
GBW 07239 1F2-assay Kamloops (%) Cert																								
OREAS 922 (AQUA REGIA) Meas	0.69		2.14	95.0	34.3	67.0	0.34	8.5	30.9	5.3	3.6		5.1	0.7							< 0.1		1.0	
OREAS 922 (AQUA REGIA) Cert	0.57		1.76	70	32.5	63	0.28	7.33	27.5	4.98	3.44		4.44	0.62							0.61		1.12	
OREAS 923 (AQUA REGIA) Meas	0.67		1.90	78.4	31.8	62.0	0.40	7.9	28.7	5.0	5.5		4.7	0.6							0.2		2.2	
OREAS 923 (AQUA REGIA) Cert	0.58		1.56	54	30.0	60	0.40	6.79	25.4	4.34	5.99		4.07	0.54							0.60		1.96	
SdAR-M2 (U.S.G.S.) Meas			0.81	120	37.5	80.1	5.02	9.5	33.2	5.2		0.6	4.5	0.6	3.3	0.6	1.7	0.2	1.6	0.2	0.2	< 0.05	0.8	
SdAR-M2 (U.S.G.S.) Cert			1.82	990	46.6	98.8	5.1	11.0	39.4	7.18		1.44	6.28	0.97	5.88	1.21	3.58	0.54	3.63	0.54	7.29	1.8	2.8	
952377 Orig	0.28	0.23	0.27	14.4	8.6	18.6	2.63	2.6	10.5	2.2	2.8	0.5	2.3	0.3	1.7	0.3	1.1	0.2	1.4	0.2	0.2	< 0.05	0.7	
952377 Dup	0.31	0.20	0.26	15.7	8.4	18.0	2.51	2.6	10.4	2.1	3.0	0.5	2.2	0.3	1.6	0.3	1.1	0.2	1.4	0.2	0.2	< 0.05	0.6	
952380 Orig																								
952380 Dup																								
Method Blank																								
Method Blank	< 0.02	0.06	< 0.02	6.2	< 0.5	0.01	0.03	< 0.1	0.03	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS						
GXR-1 Meas		2690	0.32	655	1.9	27.7	3970
GXR-1 Cert		3300	0.390	730	2.44	34.9	3900
GXR-6 Meas		36.5	1.89	96.0	3.9	0.8	80
GXR-6 Cert		95.0	2.20	101	5.30	1.54	68.0
MP-1b Meas							
MP-1b Cert							
SDC-1 1F2 Assay (%) Meas							
SDC-1 1F2 Assay (%) Cert							
SBC-1 1F2-assay Kamloops (%) Meas							
SBC-1 1F2-assay Kamloops (%) Cert							
DNC-1a 1F2-assay Kamloops (%) Meas							
DNC-1a 1F2-assay Kamloops (%) Cert							
GXR-6 1F2-assay Kamloops (%) Meas							
GXR-6 1F2-assay Kamloops (%) Cert							
GXR-1 1F2-assay Kamloops (%) Meas							
GXR-1 1F2-assay Kamloops (%) Cert							
OREAS 14P 1F2-assay Kamloops (%) Meas							
OREAS 14P 1F2-assay Kamloops (%) Cert							
GBW 07238 1F2-assay Kamloops (%) Meas							

Analyte Symbol	Re	Au	Tl	Pb	Th	U	Hg
Unit Symbol	ppm	ppb	ppm	ppm	ppm	ppm	ppb
Lower Limit	0.001	0.5	0.02	0.01	0.1	0.1	10
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GBW 07238 1F2-assay Kamloops (%) Cert							
GBW 07239 1F2-assay Kamloops (%) Meas							
GBW 07239 1F2-assay Kamloops (%) Cert							
OREAS 922 (AQUA REGIA) Meas			0.18	60.1	13.9	2.4	
OREAS 922 (AQUA REGIA) Cert			0.14	60	14.5	1.98	
OREAS 923 (AQUA REGIA) Meas			0.15	83.0	14.6	2.3	
OREAS 923 (AQUA REGIA) Cert			0.12	81	14.3	1.80	
SdAR-M2 (U.S.G.S.) Meas				768	10.2	1.6	1150
SdAR-M2 (U.S.G.S.) Cert				808	14.2	2.53	1440.00
952377 Orig	0.016	2.8	0.15	69.1	1.9	0.9	< 10
952377 Dup	0.012	15.0	0.13	68.3	1.9	0.9	< 10
952380 Orig							
952380 Dup							
Method Blank							
Method Blank	0.012	1.9	< 0.02	0.35	< 0.1	< 0.1	20