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ASSESSMENT REPORT

describing

**GEOCHEMICAL SAMPLING, HAND TRENCHING, PROSPECTING AND
GEOLOGICAL MAPPING**

at the

LANCE PROPERTY

Lance 1-108 YD109791-YD109898
109-332 YE66799-YE67022

NTS 105N/07

Latitude 63°27'N; Longitude 132°55'W

located in the

Mayo Mining District
Yukon Territory

Field work conducted between June 21 and July 9, 2012

prepared by

Archer, Cathro & Associates (1981) Limited

for

NEW DIMENSION RESOURCES LTD.

and

STRATEGIC METALS LTD.

by

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INTRODUCTION

The Lance property lies within the Tombstone Gold Belt in east-central Yukon (Figure 1). It covers strong gold-in-soil anomalies and several auriferous quartz veins. The property is owned by Strategic Metals Ltd. and is under option to New Dimension Resources Ltd.

This report describes geochemical sampling, hand trenching, prospecting and geological mapping conducted between June 21 and July 9, 2012 by Archer, Cathro and Associates (1981) Limited on behalf of New Dimension. The author participated in and directed this project and his Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Lance property is located in central Yukon at latitude 63°27' north and longitude 132°55' west on NTS map sheet 105N/07 (Figure 1). It comprises 332 contiguous mineral claims that cover an area of about 6700 hectares (67 km²). All of the claims are registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Lance 1-108	YD109791-YD109898	March 31, 2017
Lance 109-332	YE66799-YD67022	March 31, 2016

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

The camp was mobilized from Mayo to the Stewart Airstrip via fixed-wing aircraft. From there, it and the crew were flown to the Lance property by a Bell 206BL4 helicopter. The Stewart Airstrip is located approximately 68 km northeast of the property. Additional food and gear were sent to the camp as needed by helicopter from a Strategic Metals base camp at the Rackla Airstrip, which is situated about 83 km northwest of the property. Demobilization to the nearby Liam property was provided by a Hughes 500D, which was also stationed at the Rackla Airstrip.

The Lance property is located 12 km southwest of Swan Lake and 30 km northwest of Fairweather Lake, both of which can accommodate float planes. The property lies 145 km east-southeast of Mayo, the nearest supply centre. Mayo can be reached in all seasons by two wheel drive vehicles using the Yukon highway system.

HISTORY AND PREVIOUS WORK

In 1990, the Geological Survey of Canada (GSC) completed a reconnaissance-scale stream sediment and water sampling survey on NTS map sheet 105N (Day *et. al.*, 2009). Samples collected from creeks draining the Lance property returned 80th to greater than 99th percentile arsenic (29 to 480 ppm, average of 143 ppm), 90th percentile gold (12 ppb), and 80th to greater than 98th percentile bismuth (0.3 to 1.2 ppm, average of 0.6 ppm) and antimony (1.6 and

6.0 ppm, average of 3.0 ppm) values for that map sheet.

In 2010, Strategic Metals staked 108 claims to cover the anomalous drainages, which are underlain by two plutons (located in the southwestern and northern parts of the property) and surrounding sedimentary country rocks.

In spring 2011, the property was optioned to New Dimension, and later that summer soil sampling outlined a broad, strong arsenic anomaly that encompasses five more localized gold targets (A to E). These targets are defined by gold-in-soil values up to 8.32 g/t with elevated arsenic (up to 5,990 ppm), antimony (up to 523 ppm), bismuth (up to 39.5) and/or tungsten (up to 60.5 ppm) support (Eaton, 2011). Targets A to C host auriferous quartz veins (Zones A to C), which returned up to 0.970 g/t gold with 9970 ppm arsenic; 1.46 g/t gold with 25.2% arsenic; and 1.61 g/t gold with 3.41% arsenic, respectively. In August 2011, an additional 224 contiguous mineral claims were staked because of these encouraging geochemical results.

GEOMORPHOLOGY AND CLIMATE

The Lance property is situated in the Hess Mountains, a subset of the Selwyn Mountains. It is drained by streams that flow into Pleasant Creek and Hess River, which both ultimately discharge into the Pacific Ocean via the Stewart and Yukon rivers.

The property covers a northwest-trending arcuate ridge and several northeast-trending spurs. Elevations on the property range from about 800 to 1880 m above sea level (asl). Outcrop is locally abundant but is generally restricted to ridge tops, creek cuts and steep slopes. Approximately one-third of the property lies above treeline, which is at about 1500 m asl. Slopes above that elevation are characterized by talus, outcrop and alpine vegetation that feature primarily low grass and staghorn moss. The density and size of vegetation gradually increases on lower slopes, and the valley floors are treed by spruce forests with an understory consisting of low shrubs and moss.

The top of the main ridge is a broad, grassy plateau with moderately abundant outcrop along its southeastern crest and sparse outcrop on the plateau itself. The principal area of interest on the property is situated on two of the northeast-trending spurs and within the intervening valley.

Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010). In this area, the ice sheet generally moved in a northwesterly direction.

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

REGIONAL GEOLOGY

In 1995 and 2003, the GSC and Yukon Geological Survey (YGS) published geological maps of the Lansing Range map sheet (NTS 105N) at 1:125,000 and 1:250,000 scales, respectively (Roots *et.al.*, 1995 and Roots, 2003). In 2003, Gordey and Makepeace incorporated this data as part of a Yukon-wide geological compilation. The following geological descriptions are based on the published data.

The Lance property is located within northern Selwyn Basin (Figure 3), a predominantly off-shelf metasedimentary and metavolcanic sequence that formed on the western margin of the North American craton from Upper Proterozoic to Lower Paleozoic times.

The geology of the Lansing Range map sheet includes eight sedimentary units and one intrusive unit (Figure 4). The basal sequence of Hyland Group, Gull Lake Formation and Road River Group represents clastic fill and deep water chemical precipitate of Upper Proterozoic and Lower Paleozoic age. In the southwest part of the map area, thin horizons of Cambrian Marmot Formation mafic volcanics overlie Earn Group. The Mid-Paleozoic Earn Group conformably and locally unconformably overlies the sedimentary basal sequence and dominantly consists of black shale and marine conglomerate (Roots, 2003). Fine grained clastic and carbonate rocks of Mississippian Tay Formation and Keno Hill Quartzite, Carboniferous to Permian Mount Christie Formation and Triassic Jones Lake Formation conformably overlie Earn Group or are juxtaposed against the older units along faults. These younger strata are limited in extent relative to the older units. Numerous Mid-Cretaceous Selwyn Suite igneous bodies cut the sedimentary package throughout the region. A large area at the centre of the map sheet is covered by Quaternary unconsolidated glacial, glaciofluvial and glaciolacustrine deposits. The units are described in Table I.

Table I – Lithological Units (after Gordey and Makepeace, 2003)

Unit Name	Map Name	Age	Description
Q	Quaternary	Quaternary	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits.
mKgS	Selwyn Suite	Mid-Cretaceous	Mainly hornblende and hornblende/biotite syenite, commonly porphyritic (potassium feldspar phenocrysts), uneven textured, mostly medium grained, locally fine or coarse grained; minor diorite; hornblende syenite.

TrJ	Jones Lake Formation	Triassic	Brown to buff weathering, calcareous fine grained sandstone, argillite and shale; extensive ripple cross-lamination and bioturbation; massive, light grey weathering, fine crystalline, dark grey limestone; minor orange weathering platy limestone.
CPMC	Mount Christie Formation	Carboniferous to Permian	Burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous slate and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules.
MK	Keno Hill Quartzite	Mississippian	Massive to thick bedded quartzarenite; thin to medium bedded quartzarenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated.
MT2	Tay Formation	Mississippian	Grey and buff weathering, generally thick bedded to massive, dark grey to black fetid limestone; fine crystalline to cryptocrystalline; commonly bioclastic.
DME	Earn Group	Devonian and Mississippian	Thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone.
ODR1	Road River Group	Ordovician to Lower Devonian	Black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone.
CSM (undivided)	Marmot Formation	Cambrian to Silurian	Mostly mafic volcanics, in locally thick accumulations (1) - (6) but also of common occurrence as undifferentiated thin scattered members within other units.
ICG1	Gull Lake Formation	Lower Cambrian	Shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (+/-garnet +/-sillimanite +/-staurolite +/-andalusite).

PCH (undivided)	Hyland Group	Upper Proterozoic to Lower Cambrian	Consists upwards of coarse turbiditic clastics (1), limestone (2) and fine clastics typified by maroon and green shale (3).
PCH1			Thin to thick bedded, brown to pale green shale, fine to coarse grained quartz-rich sandstone, grit, and quartz-pebble conglomerate; minor argillaceous limestone; phyllite, quartzofeldspathic and micaceous psammite, gritty psammite and minor marble.
PCH2			Grey weathering, dark grey to grey white, thin to thick bedded, very fine crystalline limestone, locally sandy; calc-silicate and marble.
PCH3			Distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate.
PCH4			Quartzose clastic rocks as described in (1); mostly(?) equivalent to (1) but may include younger units

Structure on the Lansing Range map sheet dominantly follows a northwesterly trend. Significant thrust, strike-slip and extensional faults are present throughout the map sheet. The most important thrust faults are the Dawson Thrust to the northeast and the Roberts Service Thrust to the southwest. The Lance property overlies part of the Lansing Fault (informally named for the purposes of this report), which is a large steeply-dipping fault that offsets the Robert Service Thrust. The main portion of the Robert Service Thrust lies 4 km west of the Lance property; however, a relatively short, offset segment of this fault crosses the eastern part of the property. Another high angle fault is mapped in the southwest corner of the property, which may connect to the Fairweather Fault (also informally named for this report) 10 km to the southeast. All of the major faults pre-date Mid-Cretaceous plutonism, as evidenced by cross-cutting relationships and several plugs that are emplaced along, but not offset by the Fairweather Fault. Bedding is variable throughout the map sheet, but generally trends northwesterly and dips moderately to the southwest.

PROPERTY GEOLOGY

In 2012, New Dimension conducted detailed geological mapping in the vicinity of gold-in-soil anomalies that were identified in 2011 within the southern part of the Lance property. The following geological descriptions are based on regional government data (Yukon Geological Survey, 2012) and New Dimension's mapping.

Government mapping in the area indicates that the Lance property is dominantly underlain by undifferentiated Hyland Group clastic and carbonate rocks (Figure 4). Hyland Group is overlain by Gull Lake Formation and unconsolidated Quaternary glacial, glaciofluvial and glaciolacustrine deposits in the northeast and northwest corners of the property, respectively. Along the eastern property boundary, the Lansing Fault and Robert Service Thrust Fault juxtapose Hyland Group against a sliver of Earn Group. Hyland Group is cut by two small Selwyn Suite intrusive bodies in the northern and southwestern parts of the property. Selwyn Suite intrusive bodies in this area have little or no aeromagnetic expression due to their reduced nature (Roots, 2003 and Lefebure and Hart, 2005). A regional aeromagnetic map compiled by the YGS shows little magnetic contrast on the Lance property (Yukon Geological Survey, 2011).

Detailed mapping in the southern part of the property identified three primary Hyland Group sub-units – siliceous grit, phyllite and limestone (Figure 5). The siliceous grit is the most abundant and widespread of the three sub-units. It is grey to tan weathering and fine to coarse grained with sand and pebble sized clasts. The grit layers are commonly interbedded with grey to buff weathering, light to medium grey-green phyllite. Phyllite beds are typically less than two metres thick. An approximately 50 m thick limestone horizon with quartz clasts up to 5 mm in diameter outcrops in the southwest part of the main detail map area. The quartz clasts comprise about 10% of the horizon. Three, grey to buff to tan weathering, fine grained, medium to dark grey, locally well-bedded limestone horizons were outlined in the centre of the main detail map area. These horizons vary from 5 to 40 m thick. A limey turbidite horizon was noted along the top of one of these limestone horizons.

In the northwest part of the main detail map area, several fine grained, white, sucrosic, locally pyritiferous aplite dykes cut the sedimentary package. These dykes vary from 1 to 15 m thick, but could not be traced along strike due to vegetation cover.

The eastern edge of the more southerly of the two intrusive plugs shown on government's regional map was located and its position confirmed (Figures 4 and 6). Outcrop exposures on the ridge extending northeasterly from that plug dominantly comprise grit with minor interbeds of phyllite but limestone, marble and skarn horizons up to 55 m wide were also identified. All units within approximately one kilometre of the intrusion are weakly to strongly hornfelsed and are rusty weathering.

Bedding in the southern part of the property generally strikes southeasterly and dips moderately to the northeast. Erratically oriented tight folds were locally observed within phyllite and thinly bedded limestone. The grit is weakly schistose in close proximity to folded, finer grained rocks. All rocks within the map area are moderately fractured. These fractures dominantly strike northeasterly and dip variably to the northwest and southeast. Quartz veins occur in clusters, locally as stockworks or sheeted sets, and mainly strike east to southeasterly with moderate dips to the northeast.

MINERALIZATION

In 2012, New Dimension conducted detailed prospecting in conjunction with soil sampling, hand trenching and geological mapping in the vicinity of the five local gold targets (A to E) outlined

in 2011 (Figure 7). This follow up work confirmed gold+arsenic±antimony±bismuth mineralization at Zones A to C, discovered similar mineralization at a new zone (Zone H) and identified tungsten mineralization within Target D (Zone D).

In 2012, New Dimension collected a total of 89 rock samples. Sample locations are plotted on Figure 7, while results for gold, arsenic, antimony, bismuth, tungsten, silver, lead and zinc are plotted on Figures 8 to 15, respectively. Rock samples collected from 2011 are also presented on those figures. Rock Sample Descriptions appear in Appendix II and Certificates of Analysis are given in Appendix III.

The rock samples were sent to ALS Minerals in Whitehorse where they were dried, fine crushed to better than 70% passing 2 mm before a 250 g split was pulverized to better than 85% passing 75 microns. The pulverized splits then sent to ALS Minerals in North Vancouver where they were analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (Au-ICP21) and for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41).

Zone A hosts vein material with altered phyllite and grit wallrocks, which occurs within three linear gullies that cut perpendicular across a flat-topped, alpine ridge. An approximately 25 by 10 m rusty kill zone is developed in the vicinity of these gullies, and it contains about 5% percent quartz vein fragments in weakly pyritiferous, fine to coarse grained siliceous talus (Hyland Group). Quartz vein fragments are found within the gullies and on the low ridges between them. The quartz is variably rusty weathering and often contains weakly disseminated pyrite and limonite. No quartz veins have been seen in outcrops that occur along the edges of the gullies. An aplite sill was observed in the area.

A total of 23 rock samples were taken within or adjacent to the gullies. Rock samples generally consist of: variably limonitic quartz vein with phyllite and/or grit clasts that may exhibit yellowish clay alteration; grey-brown phyllite with narrow cross-cutting quartz veins hosting weak to moderate blebby pyrite; and weakly to strongly limonitic grit. The best assay came from a specimen of knubbly grey weathered, siliceous grit with yellow clay-filled vugs, which was taken from one of the gullies. That sample returned 0.200 g/t gold and 2600 ppm arsenic.

Three hand trenches totalling 71 m in length were cut obliquely across the three main gullies. In areas of exposed bedrock, continuous chip samples were collected across up to 3 m intervals and where bedrock was not reached soil samples were taken from holes augered as far as possible below the trench floors. Figure 7 shows trench locations, while trench geology and significant geochemical assays are illustrated on Figures 16 to 18.

The best assays came from TR-12-01, where two adjacent chip samples averaged 0.795 g/t gold and 6640 ppm arsenic over 3.1 m. That sample mostly comprised strongly altered grit with millimetre sized quartz clasts in a rusty matrix of fine grained sand.

Prospecting and hand trenching at Zone A have been unable to explain the very high (8.32 and 2.5 g/t) gold-in-soil results obtained in the area.

Zone B comprises an arsenopyrite-rich quartz vein that occurs on a steep southeast-facing slope (~ 45 to 50 degrees), 300 m southeast of Zone A. The vein cuts coarse grained grit and is up to 10 cm thick. It is only exposed over a two metre strike length, trending into heavily vegetated terrain to the southeast and beneath talus cover to the northwest. This vein exposure was relocated in 2012, but it was not re-sampled.

In 2012, 14 rock samples were taken in the vicinity of Zone B. A two cm thick, scordite-stained quartz vein fragment was found in talus about 75 m north of the showing. A specimen from that fragment returned 0.669 g/t gold, 9.51% arsenic, 75.9 ppm antimony and 130.5 ppm bismuth. A grab sample of grey-rusty weathering quartz vein talus hosting trace fine grained arsenopyrite was collected uphill from an aplite dyke, 170 m north-northeast of the showing. This sample yielded 0.163 g/t gold, 9190 ppm arsenic, 63.9 ppm antimony and 31.9 ppm bismuth.

Prospecting in 2012 was unable to extend the auriferous quartz vein showing discovered in 2011, but did identify two new areas with arsenopyrite-rich quartz vein talus nearby.

Zone C consists of a 20 cm wide strongly scordite-stained quartz vein hosting moderate, fine grained arsenopyrite. The adjacent country rock comprises fine to medium grained grit, which is locally and weakly scordite stained. The quartz vein strikes 126 degrees, dips steeply to the northeast and appears to pinch and swell along strike. It is exposed within a large gully that also hosts moderate to strong stockwork quartz veining and trace to weak scordite-staining on a cliff face along its northeast edge. The mineralized zone trends into talus and vegetation to the southwest.

A continuous chip sample across the main vein yielded 1.04 g/t gold, 2.81% arsenic and 20.9 ppm antimony. Continuous chip samples of country rock taken 1.7 m into the footwall and 0.7 m into the hanging wall returned 0.044 g/t gold with 563 ppm arsenic, and 0.076 g/t gold with 1655 ppm arsenic, respectively.

The source of 2011 grab samples was identified in 2012, but gold values returned in 2012 were lower than those from high grade auriferous quartz vein specimens collected in 2011.

At **Zone D**, a 50 cm deep soil pit was dug beneath the site of a strongly anomalous gold-in-soil result. A specimen of highly calcareous skarn with green bands hosting coarse to fine grained magnetite crystals and chlorite stringers was collected from the pit. A sample from that specimen returned a significantly elevated tungsten (410 ppm) value but only background results for gold, arsenic, antimony and bismuth. The specimen is angular to sub-angular and appears to be transported over a relatively short distance. Limonitic soil and rock fragments were also observed within this pit and a soil sample of that material returned high values for gold and pathfinder elements, except tungsten. This sample is further discussed in the Soil Geochemistry section.

Prospecting elsewhere at Zone D was hampered by thick vegetation. Scattered intrusive and hornfelsed, pyritiferous metasedimentary talus were observed, but returned only background values for all elements of interest.

Zone H comprises highly altered quartz vein with moderate scordite-staining. A sample consisting of 13 vein chips was collected from an approximately 30 by 30 m area on a talus slope composed of phyllite, grit and quartz vein. The source of the vein float appears to be located above a rusty spur leaching green soil. The composite chip sample yielded 0.594 g/t gold, 13.8% arsenic, 102.5 ppm antimony and 95.3 ppm bismuth.

SOIL GEOCHEMISTRY

In 2011, New Dimension collected 15 stream sediment and 218 soil samples from the southern part of the Lance property. In 2012, a total of 826 soil samples were taken from two soil grids covering Targets A to E, and contour sample lines located south of those targets. Sample locations are plotted on Figure 7, while results for gold, arsenic, antimony, bismuth, tungsten, silver, lead and zinc are plotted on Figures 8 to 15, respectively. Soil samples collected from 2011 are also plotted on those figures. Certificates of Analysis are provided in Appendix III.

The soil samples were sent to ALS Minerals in Whitehorse where they were dried, screened to -180 microns, and then to ALS Minerals in North Vancouver where they were analyzed for gold and 51 elements using Au-ICP21 and ME-MS41.

Soil sampling identified a large, relatively intense arsenic anomaly that covers much of the southern part of the property. The arsenic anomaly is locally supported by elevated gold, antimony, bismuth, tungsten, silver, lead and zinc values. Anomalous thresholds and peak values for soil samples are listed in Table II.

Table II – Geochemical Data for Soil Geochemical Targets

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Gold (ppb)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥ 100	8,320
Arsenic (ppm)	≥ 100 < 200	≥ 200 < 500	≥ 500 < 1,000	≥ 1,000	10,001
Antimony (ppm)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	578
Bismuth (ppm)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	80.8
Tungsten (ppm)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	60.5
Silver (ppm)	≥ 1 < 2	≥ 2 < 5	≥ 5 < 10	≥ 10	15.0
Lead (ppm)	≥ 50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	1,200
Zinc (ppm)	≥ 100 < 200	≥ 200 < 500	≥ 500 < 1,000	≥ 1,000	2,570

Within the broad soil anomaly, seven specific targets (A to H) were defined by elevated gold±arsenic±antimony±bismuth±tungsten±silver±lead±zinc. Relative strength and peak values for soil geochemical targets are listed in Table III.

Table III – Relative Strength and Peak Values for Soil Geochemical Targets

Target A		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	8,320
Arsenic (ppm)	Very Strong	10,001
Antimony (ppm)	Strong	33.6
Bismuth (ppm)	Moderate	15.4
Tungsten (ppm)	Background	0.46
Silver (ppm)	Background	0.86
Lead (ppm)	Background	28.7
Zinc (ppm)	Background	98
Target B		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	261
Arsenic (ppm)	Very Strong	10,001
Antimony (ppm)	Strong	30.7
Bismuth (ppm)	Moderate	16.85
Tungsten (ppm)	Background	0.27
Silver (ppm)	Weak	1.82
Lead (ppm)	Strong	361
Zinc (ppm)	Weak	164
Target C		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	337
Arsenic (ppm)	Very Strong	3,390
Antimony (ppm)	Weak	9.21
Bismuth (ppm)	Background	1.1
Tungsten (ppm)	Background	0.09
Silver (ppm)	Weak	1.25
Lead (ppm)	Weak	81.7
Zinc (ppm)	Weak	151

Target D		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	1,400
Arsenic (ppm)	Very Strong	10,001
Antimony (ppm)	Very Strong	578
Bismuth (ppm)	Very Strong	80.8
Tungsten (ppm)	Strong	59.9
Silver (ppm)	Very Strong	14.95
Lead (ppm)	Very Strong	1,200
Zinc (ppm)	Very Strong	2,570
Target E		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	865
Arsenic (ppm)	Background	49.5
Antimony (ppm)	Background	2.06
Bismuth (ppm)	Background	0.41
Tungsten (ppm)	Background	0.28
Silver (ppm)	Background	0.12
Lead (ppm)	Background	26.1
Zinc (ppm)	Background	81
Target F		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	115
Arsenic (ppm)	Very Strong	2,570
Antimony (ppm)	Very Strong	138
Bismuth (ppm)	Weak	9.42
Tungsten (ppm)	Background	0.41
Silver (ppm)	Moderate	3.57
Lead (ppm)	Strong	899
Zinc (ppm)	Moderate	436
Target G		
Element	Relative Strength	Peak Value
Gold (ppb)	Very Strong	300
Arsenic (ppm)	Very Strong	6,120
Antimony (ppm)	Weak	9.69
Bismuth (ppm)	Background	1.35
Tungsten (ppm)	Background	0.08
Silver (ppm)	Background	0.77
Lead (ppm)	Moderate	186.5
Zinc (ppm)	Weak	154

Element	Target H	
	Relative Strength	Peak Value
Gold (ppb)	Weak	11
Arsenic (ppm)	Strong	631
Antimony (ppm)	Moderate	10.7
Bismuth (ppm)	Background	3.44
Tungsten (ppm)	Background	0.12
Silver (ppm)	Background	0.22
Lead (ppm)	Weak	65.4
Zinc (ppm)	Weak	118

Target A encompasses Zone A and includes a cluster of three very strong gold results in the north part of the target and a highly elevated gold point anomaly to the south. All of the high gold values are directly supported by arsenic, but only the northern cluster shows elevated antimony and bismuth response. The two highest gold-in-soil values on the property are from samples taken within this target, near the gullies at Zone A.

Target B is located 300 m southwest of Target A and consists of two samples that yielded very high gold results with direct arsenic, antimony, bismuth and lead support. It lies immediately downhill of the auriferous arsenopyrite-rich quartz vein at Zone B. Two samples taken from the northern part of the target also returned strongly elevated values for gold with coincidentally high arsenic, antimony and lead response.

Target C is situated 500 m south of Target A on a steep southeast facing slope. It is defined by two strong gold values with elevated arsenic results. The anomalous soil samples were collected immediately downhill from the auriferous quartz vein at Zone C. The target is locally underlain by stockwork-veined grit.

Target D lies 700 m northwest of Target A, on a small knob that is separated from the main north-facing hillside by a southwest trending gully. A hand pit at this target returned a strong gold-in-soil point anomaly with arsenic, antimony, tungsten, bismuth, silver, lead and zinc support. The elevated tungsten response distinguishes Target D from the other targets. The high tungsten-in-soil value may be explained by the skarn specimen taken from the soil pit (described in the Mineralization Section); however, the known skarn does not appear to be the source for gold or other elements of interest.

Target E is located 2000 m west-southwest of Target A and is defined by a very high gold point anomaly from 2011. Unlike Targets A to D, the gold value at Target E is not supported by any of the other elements of interest. Soil samples taken from this area in 2012 were unable to reproduce the 2011 anomalous gold result. This area is strongly vegetated and contains very limited outcrop.

Target F sits 800 m northwest of Target A, on a moderate northeast facing slope. This target comprises a northeast trending line of four samples, which returned strongly elevated gold values with coincident, moderate to strong arsenic and antimony response. The highest gold value lies

in the southwestern-most part of the target, and is from a sample that also produced a silver, lead and zinc point anomaly. The highest gold value is underlain by limestone that is cut by aplite dykes/sills.

Target G lies 600 m south of Target A and is defined by a highly elevated gold and arsenic point anomaly with moderate lead support. Target G overlies variably coarse grained grit with lesser phyllite interbeds.

Target H is situated 800 m southwest of Target A on a moderately steep southeast facing slope. This target features a weakly anomalous gold value with elevated arsenic and antimony results, which were obtained from a sample taken 25 m uphill from the composite sample of auriferous quartz vein that defines Zone H.

EXPLORATION MODEL

The Lance property is located within the Tombstone Gold Belt (TGB), a 600 km long belt of gold occurrences that extend across central Yukon and Alaska and which is associated with reduced, low magnetic signature plutons (Hart and Lewis, 2006 and Hart, 2006).

Since the discovery of the intrusion-related Fort Knox gold deposit in Alaska in the early 1990s, gold exploration in Yukon (particularly within the TGB) has increasingly focussed on plutons of Mid-Cretaceous age (Hart and Lewis, 2006). The strong association between gold mineralization and Mid-Cretaceous intrusions within the TGB provided the foundation for a reduced intrusion-related gold systems (RIRGS) model that has gained widespread use and acceptance (Hart and Lewis, 2006).

A nearby examples of RIRGS gold mineralization have recently been discovered at Goldstrike Resources Limited's Plateau North and South properties, located 10 and 25 km southwest of the Lance property, respectively (Figure 4). The Yellow Giant Trend on Plateau South property hosts high grade gold mineralization. It lies within and on the margins of two Selwyn Suite plugs. Multiple grab samples from each of the VG, Goldbank and Goldstack Zones reportedly contain visible gold and return promising assays, including 525.86, 34.25 and 49.21 g/t gold, respectively. The Goldrush Trend, located on Plateau North property, has produced strongly elevated soil and rock results that include up to 26.82 and 8.99 g/t gold, respectively. The gold is structurally controlled but occurs in a variety of settings: an anticlinal fold hinge covered by felsic volcanic tuff (VG Zone); weathered gritty sandstone hosting disseminated arsenopyrite (VG Zone); variably silicified felsic volcanics (Goldbank Zone); and breccias associated with extensive quartz veining (Goldstack Zone) - (Bremner, 2012).

RIRGS gold deposits are the product of local-scale fluids derived from cooling of a proximal granitoid intrusion. Figure 19 illustrates several of the geochemical, lithological, structural and mineralogical features of RIRGS gold deposits. These deposits share several characteristics with orogenic deposits, which are considered to result from crustal-scale fluids derived through metamorphic dehydration (Hart, 2005). Features that are common to both deposit types include:

- 1) metaluminous, subalkalic intrusions or intermediate to felsic compositions that lie near the boundary between ilmenite and magnetite series;
- 2) carbonic hydrothermal fluids;
- 3) a metal assemblage that variably combines gold with elevated bismuth, tungsten, arsenic, molybdenum, tellurium and/or antimony and low concentrations of base metals; and
- 4) a low sulphide mineral content, with a reduced ore mineral assemblage that typically comprises arsenopyrite, pyrrhotite and pyrite and lacks magnetite and hematite (Hart, 2005).

Other features exist that exclusively differentiate RIRGS deposits (Hart, 2005), including:

- 1) ideal tectonic setting is ancient continental margin behind accretionary or collisional orogens and subduction-related magmatic arcs;
- 2) typically formed late in orogeny;
- 3) preferred host strata include basinal miogeoclinal sedimentary or metasedimentary rocks;
- 4) concentric zoning due to steep thermal gradients surrounding cooling plutons – zones can develop outward from pluton margin for up to a few kilometres and gold mineralization is associated with pluton-proximal mineralization (bismuth, tellurium and tungsten), aureole-hosted mineralization (arsenic or antimony) and distal mineralization (silver, lead and zinc);
- 5) several different styles of mineralization due to rapid cooling of mineralizing fluids – styles include variably intrusion and country-rock hosted skarns, replacements, disseminations, stockworks and veins;
- 6) sheeted arrays of parallel, low-sulphide, single-stage quartz veins found over tens to hundreds of metres and preferentially located in the pluton's cupola are the most distinctive style of gold mineralization;
- 7) plutons should exhibit physical evidence and geochemical support for high volatile contents, fluid exsolution, rapid fractionation, zonation, porphyry textures, presence of aplite and pegmatite dykes, quartz and tourmaline veins, greisen alteration, mariolitic cavities and/or unidirectional-solidification textures;
- 8) felsic, ilmenite-series plutons that lack magnetite, have low magnetic susceptibilities and aeromagnetic response, and have low ferric:ferrous ratios; and
- 9) coeval (± 2 million years) with their associated, causative pluton.

The abundance of RIRGS deposits correlates inversely with the surface exposure of the related intrusion because stocks and batholiths with considerable erosion are generally less prospective (Lefebure and Hart, 2005).

DISCUSSION AND CONCLUSIONS

New Dimension's 2012 exploration program was designed to follow-up on several gold-in-soil anomalies and auriferous quartz veins discovered in 2011. It successfully identified the probable sources for some of the gold-in-soil anomalies, but failed to explain the most encouraging soil

value (8.32 g/t) within Target A. There are now eight gold-in-soil anomalies on the property, including three that were discovered during the 2012 program (Targets F to H).

Several geochemical and geological features on the Lance property are characteristic of the RIRGS deposit model. These features include: a continental margin setting that underwent orogeny; proximity to a small granitoid intrusions; aplite dykes; and evidence of a large hydrothermal system that is marked by auriferous veins and skarns. This model applies to a number of mines and advanced prospects in the Tombstone Gold Belt of Yukon and Alaska, including Goldstrike's nearby Plateau North and South properties.

The geochemical signature of the rock samples taken from Zone A, combined with the presence of aplite dykes/sills in the area, suggests close proximity to a pluton (within the As-Au aureole, as illustrated on Figure 19). Geochemical signatures of gold bearing quartz veins collected from Zones B, C and H place these showings within the As-Sb-Au aureole of the RIRGS model. Elevated gold-in-soil values at Targets D and F appear to be sourcing from limestone horizons that could host skarn or replacement style mineralization.

Additional exploration is needed on the Lance property to constrain the extent, nature and controls of the mineralization. Airphoto interpretation should be completed prior to the field season and any linear features should be plotted on geochemical maps. Field work should include: 1) extension of the eastern grid in conjunction with closely-spaced contour soil sampling across the remainder of the property, especially near the mapped intrusions in the southwest and north parts of the property; 2) systematic prospecting of geochemical anomalous areas; 3) where mineralization is discovered, detailed mapping and hand trenching to identify its bedrock source and evaluate its size and grade potential; and 4) a low-level, high-resolution helicopter-borne magnetic, radiometric and electromagnetic geophysical survey to better delineate lithological contacts, alteration and structure on the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Andrew Mitchell, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2010 with a B.Sc. in Earth and Environmental Sciences.
2. From 2010 to present, I have been actively engaged in mineral exploration in Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 169067)
4. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.



A. Mitchell, B.Sc. Geology, GIT

APPENDIX II
ROCK SAMPLE DESCRIPTIONS

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079809	UTM:	605910 E	UTM:	7035358 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble taken from approximately 15 m north from bench feature within a 1x2 m talus exposure comprising grit, black shale and brown phyllite. Cobble consists of quartz vein with patchy and sporadic limonite with trace brown fine grained mica.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079810	UTM:	606049 E	UTM:	7035466 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 3 piece composite sample of quartz vein (hosts patchy brown-orange limonite) and weakly foliated brown quartz grit with quartz clasts mm scale and subrounded. Sample was taken from a 5x5 m talus slope with ~ 70% vegetation

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079811	UTM:	606084 E	UTM:	7035371 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble and several fragments collected at south edge of minor depression. Rusty weathering quartz vein with pervasive patchy limonite, local yellow stain. Trace mica within limonite. Rare phyllite fragments.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079812	UTM:	606004 E	UTM:	7035224 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of red gritty schistose rock with small quartz clasts between micaceous layers. It is cut by dark green, fine grained veins with patchy limonite. Veins are 0.5 cm wide and are perpendicular to foliation. Rare pyrite within veins. Found in talus, only one of its type.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079813	UTM:	605831 E	UTM:	7035077 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of rusty weathering quartz vein with moderate, patchy limonite and minor grey phyllite clasts. Collected from primarily phyllite talus on ridge crest.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079814	UTM:	605840 E	UTM:	7035095 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of strongly limonitic quartz vein within brown-grey phyllite. Collected from talus at base of subcrop on ridgecrest. 2 blocks like it in this area.

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079815	UTM:	605844 E	UTM:	7035099 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Rusty-brown weathering, pitted quartz vein with limonite and yellowish clay alteration? One side of rock is grey phyllite. Some limonite likely due to phyllite weathering. On ridgecrest, quartz vein comprises about 10% of talus.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079816	UTM:	605844 E	UTM:	7035099 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Grey-brown phyllite with cross-cutting, narrow quartz vein with weak to moderate blebby pyrite. One 1 cm diameter cube of pyrite. Collected below phyllite outcrop on ridgecrest. Sulphides are rare in this area.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079817	UTM:	605858 E	UTM:	7035119 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of strongly limonitic quartz vein with clasts of phyllite. 2 blocks like this in talus at base of phyllite outcrop, near its contact with a 1 m wide aplite dyke.

Sample Number:	Grid East:	E	Grid North:	N	Type: Composite	Dimension:
I079818	UTM:	605894 E	UTM:	7035160 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 4 pieces of pervasively limonitic, weakly foliated quartz pebble conglomerate. Several blocks within a 2x3 m area on ridgecrest.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079819	UTM:	606069 E	UTM:	7035326 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Dark brown limonitic, weakly vuggy rock with white clay (~1mm clay fragments) with few banded dark brown/purple layers (manganese?) found within trench A.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079820	UTM:	606047 E	UTM:	7035359 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: In prominent gully, strongly vegetated - one cobble of knubbly grey weathering, weakly vuggy, siliceous grit. Vugs infilled with quartz crystals, yellow clay alteration and/or limonite. Grit has pervasive, weak green colour - chlorite alteration? Only rock of its type in this area.

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079821	UTM:	606033 E	UTM:	7035360 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein with patchy limonite and pyrite cubes. Cobble found on slope of gully within talus slope (only one like this)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079822	UTM:	606028 E	UTM:	7035364 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Rusty orange/purple altered quartz grit with mm size rounded to subrounded quartz clasts (< 1mm) taken in outcrop ~ 2 m wide and 2 m high.

Sample Number:	Grid East:	E	Grid North:	N	Type: 2 pc grab	Dimension:
I079823	UTM:	606024 E	UTM:	7035392 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 cobbles of quartz vein with pervasive limonite along bands - may be due to weathering of phyllite. Minor phyllite within quartz vein. Collected from talus comprising mostly siliceous grit and phyllite, in prominent gully.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079824	UTM:	606015 E	UTM:	7035418 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of weakly rusty weathering quartz vein with patchy limonite, which appears to be associated with chlorite-altered phyllite clasts. In prominent gully.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079825	UTM:	606014 E	UTM:	7035428 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of grey-brown and knobby weathering, sucrosic, grey-white quartz vein. Locally with vugs of limonite. Rare 1.5 mm pyrite cubes. Rock was collected from mossy area.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079826	UTM:	606002 E	UTM:	7035435 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein hosting patchy limonite with cubic pits (pyrite?) and purply metallic staining along fractures (Manganese staining?). ~ 1% of rock hosts dark green fragments (chlorite alteration?). Sample was taken from well vegetated slope along gully as subcrop.

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079827	UTM:	606071 E	UTM:	7035224 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 partially buried block of rusty-brown weathering, weakly chlorite(?) altered, weakly foliated siliceous grit with rusty, 2 cm wide quartz vein with limonitic vugs. Adjacent to short, shallow depression. Area is well covered by moss.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079828	UTM:	606012 E	UTM:	7035503 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of weakly rusty weathering quartz vein with minor, patchy limonite. Rare sulphide with limonite - Py or Aspy?

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079829	UTM:	606069 E	UTM:	7035537 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Silica altered quartz grit with subrounded quartz clasts < 1mm with leanrar quartz veins found pervasively throughout. Vein selvages are defined by rusty orange/brown < 1mm in thickness. Greeny tinge to the host rock. Discovered as subcrop within a gully of pyllite, quartz grit and quartz vein.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079830	UTM:	605985 E	UTM:	7035521 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 small cobble (7 x 5 x 3 cm) of vuggy, pervasively orange quartz vein with limonite in most vugs. Quartz crystals in some vugs. Rare empty cubes where pyrite crystals used to be. On strongly vegetated slope (moss and few trees).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079831	UTM:	605994 E	UTM:	7035562 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Silicified phyllite with blebs of white clay alteration (< 1mm in size). Few clasts are purpley orange limonite with few purple stringers within. Within vegetated talus slope within prominent gully which consists of phyllite, quartz vein and grite over approximately 8x6 m talus slope.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079832	UTM:	605958 E	UTM:	7035575 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of knubbly, pitted and grey weathering, moderately limonitic (boxwork) quartz vein with minor green-grey phyllite attached to edges. Rare open spaces within quartz. In talus with predominantly weakly foliated grit and aplite dyke blocks.

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079833	UTM:	605959 E	UTM:	7035220 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Grab sample of brown weathering, quartz veined, locally manganese stained schistose siliceous grit taken from area of strong quartz veining. In talus, but close to in situ.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079834	UTM:	605868 E	UTM:	7035138 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 cobble of rusty-grey weathering, quartz vein cutting beige aplite. Trace arsenopyrite and weak scorodite in quartz. Rare limonite vugs. Collected from talus over aplite subcrop above high gold-in-soil value on ridgecrest. Only 1 rock like it seen in area.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079835	UTM:	605868 E	UTM:	7035138 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Knubbly and rusty-brown weathering, quartz veined schistose siliceous grit. Minor orange limonite-likely from metasediments, not sulphides. Collected in vicinity of elevated gold-in-soil anomaly.

Sample Number:	Grid East:	E	Grid North:	N	Type: Composite	Dimension:
I079836	UTM:	605868 E	UTM:	7035138 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 5 piece sample of beige weathering, weakly pyrite-bearing (as single crystals) aplite dyke. Representative of main, 1.5 m wide aplite dyke.

Sample Number:	Grid East:	E	Grid North:	N	Type: 2 pc grab	Dimension:
I079837	UTM:	605868 E	UTM:	7035138 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 2 cobbles of greenish-tinged, quartz vein in aplite dyke with trace, fine grained arsenopyrite. Taken from same place as I079834-836.

Sample Number:	Grid East:	E	Grid North:	N	Type: Grab	Dimension:
I079838	UTM:	605868 E	UTM:	7035138 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: 1 block of rusty weathering, green-yellow tinged aplite with quartz vein. Quartz vein is open with small crystals. Collected from same place as I079835-837.

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079839	UTM:	604015 E	UTM:	7035023 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein with patchy orange limonite and minor manganese staining. Found within a 15 x 1 m moderately steep talus slope of weakly siliceous and foliated (one type of rock in talus) Talus is subangular.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079840	UTM:	605908 E	UTM:	7035142 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein with large fragment ~ 2x2 cm white clay within. The remaining quartz vein is stained orange with few purple orange stringers and blebs. Taken from talus and vegetated slope as float. Talus consists of aplite dike, grit and phyllite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079841	UTM:	605897 E	UTM:	7035136 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: White aplite with fine grained py (aspy?) with light green staining near boundaries of py/aspy?. Sample was taken from an ~ 15 x 3 m extensively fractured outcrop.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079842	UTM:	603956 E	UTM:	7035086 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein with reddy-orange limonite and minor manganese staining. Taken from a 50 x 50 m talus and vegetated slope. Talus comprises fine grained to medium grained quartz grit and is subangular in appearance. Found on a moderate to gentle north facing slope.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079843	UTM:	603989 E	UTM:	7035011 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Patchy limonite hosted within quartz vein with abundant manganese staining defined by blebs and < 1mm stringers. Taken from a 15 x 5 m moderate to gentle slope with angular to subangular clasts of locally derived quartz grit and quartz vein (~90% grit and 10% quartz vein).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079844	UTM:	604024 E	UTM:	7034890 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Well banded (less than 1 mm white bands), very fine grained dark grey non-calcareous groundmass (Smells like rotten eggs with acid). Rock is subangular. Found within ~ 20 x 10 m felseneer exposure and only sample of its kind in the area.

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Float grab	Dimension:
I079845	UTM:	603825 E	UTM:	7034752 N	Sample Width:		Abundance:
	Elevation:	m					

Comments: 1 block of rusty weathering, pervasively rusty quartz vein with clasts of phyllite that are clay (white-yellow, porous) and chlorite(? Dark green) altered. Weak limonite in vugs. Collected from base of grit>phyllite talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:		Dimension:
I079846	UTM:	603621 E	UTM:	7034699 N	Sample Width:		Abundance:
	Elevation:	m					

Comments: Quartz vein hosting patchy orangy-brown limonite with vugs infilled with manganese staining. Taken from larg talus slope ~ 10 m wide and 100 m long with weakly to moderately hornfelsed grit and quartz vein (~ 80% grit and 20% quartz vein).

Sample Number:	Grid East:	E	Grid North:	N	Type:		Dimension:
I079847	UTM:	605525 E	UTM:	7034656 N	Sample Width:		Abundance:
	Elevation:	m					

Comments: A 13 piece composite sample of highly altered quartz vein with scordite staining found pervasively throughout. Aspy is found as fine grained crystals and the rock is moderately to highly porous. Sample was taken from an ~ 30x30 m talus slope which compirses phyllite, grit and quartz vein. Sample was collected from a 25 m talus train where the source appears to be just above a rusty spur leaching green soil

Sample Number:	Grid East:	E	Grid North:	N	Type:		Dimension:
I079848	UTM:	605567 E	UTM:	7034732 N	Sample Width:		Abundance:
	Elevation:	m					

Comments: Orange-brown limonite that is moderately porous with manganese staining on the surface. Taken from 5x3 m talus slope and represents < 1% of talus. Talus has some rusty clasts of fine grained grit.

Sample Number:	Grid East:	E	Grid North:	N	Type:		Dimension:
I079849	UTM:	605847 E	UTM:	7035049 N	Sample Width:		Abundance:
	Elevation:	m					

Comments: Strongly altered quartz vein with fine grained aspy and py found as veins up to 2 cm in width. Scordite staining throughout the entire rock. Sample was taken from grit and quartz vein talus on a moderately vegetated slope and was < 1% of talus.

Sample Number:	Grid East:	E	Grid North:	N	Type:		Dimension:
I709850	UTM:	605993 E	UTM:	7034387 N	Sample Width:		Abundance:
	Elevation:	m					

Comments: Quartz vein taken from outcrop hosted within rusty weathering phyllite. Vein is approximately 5-10 cm and pinches and wells. It is exposed over 50 cm and projects into the ground. Outcrop appears to have slumped so no accurate measurement could be taken. Rest of this outcrop is much less altered with less quartz veining (within at 3x2 m area)

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862751	UTM:	606032 E	UTM:	7034371 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Orangy brown limonite, moderately porous with ~ 5% quartz (stockwork?). Taken from a talus slope between 2 large outcrops. Sample consist of <1% of talus on ~70% vegetated slope with fine grained grit and quartz vein

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862753	UTM:	606075 E	UTM:	7034656 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Rusty weathered quartz vein with patchy limonite and manganeses staining. Vein is ~ 5 cm thick. Taken from strongly rusty weathered fine grained grit, immediately underlain by phyllite.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862754	UTM:	606095 E	UTM:	7034641 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein comprising limonite blebs. Found within a phyllite host rock and from a 3-4 m wide outcrop that trends 104 degrees and dips 55 NE.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862755	UTM:	606095 E	UTM:	7034641 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Rusty weathered phyllite, which is strongly quartz quartz veined. from a 3-4 m wide outcrop that trends 104 degrees and dips 55 NE. (country rock)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862756	UTM:	606116 E	UTM:	7034679 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein with few small patches of limonite and purple-red staining. Quartz vein is hosted within a fine grained grit and cuts sub parallel to bedding. Vein is ~ 50 cm thick within an area of strong quartz veining.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862757	UTM:	606116 E	UTM:	7034679 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine grained grit with ~1% pyrite disseminated throughout. Rock appears to be moderately silicified and pyrite can be found within <1 mm stringers. Found within a strongly quartz veined outcrop (same as above = K862757)

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862758	UTM:	606116 E	UTM:	7034679 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine grained grit with galena stringers < 1mm in width and found as < 1mm euhedral to subhedral crystals ~ 1% of rock. Rock appears to have been strongly silicified (aspy also?). This zone is approximately 1-1.5 m wide and appears to be truncated by a phyllite horizon near the bottom (quartz vein ~ 90 degree dip cuts this contact).

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862760	UTM:	606074 E	UTM:	7034687 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein hosted within fine grained grit and phyllite (rusty weathered phyllite). Quartz vein comprises patchy limonite and manganese staining. The quartz veined zone is approximately 50 cm in width.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862761	UTM:	606074 E	UTM:	7034687 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine grained to medium grained grit hosting fine grained pyrite < 1 % and aspy? Rock is moderately silicified and hosts mm scale stockwork veins. Taken from approximately 50 cm zone with rusty phyllite and fine grained grit on either side of the quartz vein.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862762	UTM:	606117 E	UTM:	7034727 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Strongly silicified phyllite with stockwork veining. Altered horizon is ~ 30-40 cm thick along limestone and phyllite contact. Rock hosts 1-2 mm veins which may exhibit chlorite alteration with disseminated fine grained pyrite (~ 1%)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862764	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine grained grit with weak to moderate quartz veining throughout (Trench A)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862765	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Mostly fine grained to medium grained grit, with few interbeds of phyllite (Trench A)

Rock Sample DescriptionsProject: LansingProperty: Lance

Sample Number: Grid East: E Grid North: N Type: Dimension:
K862766 UTM: E UTM: N Sample Width: Abundance:
 Elevation: m

Comments: Mostly fine grained to medium grained grit, with few interbeds of phyllite (Trench A)

Sample Number: Grid East: E Grid North: N Type: Dimension:
K862767 UTM: E UTM: N Sample Width: Abundance:
 Elevation: m

Comments: Mostly fine grained to medium grained grit, with few interbeds of phyllite. Phyllite appears to be altered into a light brown soil/clay matrix. (Trench A)

Sample Number: Grid East: E Grid North: N Type: Dimension:
K862768 UTM: E UTM: N Sample Width: Abundance:
 Elevation: m

Comments: Rusty medium grained grit, which has been altered into mostly a sandy-like soil with few composite clasts (reps). Sandy soil features generally mm sized quartz clasts in a rusty matrix of fine grained sand (Trench A)

Sample Number: Grid East: E Grid North: N Type: Dimension:
K862769 UTM: E UTM: N Sample Width: Abundance:
 Elevation: m

Comments: Interbedded fine grained grit and grey phyllite (Trench A)

Sample Number: Grid East: E Grid North: N Type: Dimension:
K862770 UTM: E UTM: N Sample Width: Abundance:
 Elevation: m

Comments: Interbedded fine grained grit and grey phyllite (Trench A)

Sample Number: Grid East: E Grid North: N Type: Dimension:
K862771 UTM: E UTM: N Sample Width: Abundance:
 Elevation: m

Comments: Mostly fine grained, weakly foliated grit with weak quartz veining (Trench A)

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number: K862772 Grid East: E Grid North: N Type: Dimension:
UTM: E UTM: N Sample Width: Abundance:
Elevation: m

Comments: Mostly fine grained, weakly foliated grit with weak quartz veining (Trench A)

Sample Number: K862773 Grid East: E Grid North: N Type: Dimension:
UTM: 686185 E UTM: 7034754 N Sample Width: Abundance:
Elevation: m

Comments: Chip sample taken over 1.7 m. Located immediately southwest of scordite stained vein at Target C. Sample comprises strongly silicified medium grained grit with 1% to trace py.

Sample Number: K862774 Grid East: E Grid North: N Type: Dimension:
UTM: 686185 E UTM: 7034754 N Sample Width: Abundance:
Elevation: m

Comments: Approximately 20 cm interval of highly altered quartz vein? grit? with strong scordite staining and moderately porous. Sample was taken as a chip sample (20 cm) from Target C.

Sample Number: K862775 Grid East: E Grid North: N Type: Dimension:
UTM: 686185 E UTM: 7034754 N Sample Width: Abundance:
Elevation: m

Comments: 70 cm chip sample taken from country rock immediately adjacent (to the northwest) of scordite stained vein. Rock sample comprises fine grained grit with disseminated fine grained pyrite (~3-10% - varies). Green colored with purple weathered surface. Target C

Sample Number: K862776 Grid East: E Grid North: N Type: Dimension:
UTM: 686185 E UTM: 7034754 N Sample Width: Abundance:
Elevation: m

Comments: 2.20 m chip sample of medium grained grey weathered grit with moderate quartz veining (generally follows bedding), which range up to 2-3 cm. Target C

Sample Number: K862777 Grid East: E Grid North: N Type: Dimension:
UTM: 686185 E UTM: 7034754 N Sample Width: Abundance:
Elevation: m

Comments: 90 cm chip sample moderately altered fine and medium grained grit with a green (scordite?) and purple weathered surface. Staining appears to be concentrated on the more fine beds within the interval.

Rock Sample DescriptionsProject: LansingProperty: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862785	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine grained grit and phyllite with trace quartz veining and local rusty weathering on surface. (Trench B)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862786	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine grained grit and phyllite with trace quartz veining and local rusty weathering on surface. (Trench B)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862787	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine grained grit and phyllite with trace quartz veining and local rusty weathering on surface. (Trench B)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862788	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Clastic limestone with quartz clasts disseminated throughout and up to 2 mm in size. Appears to be weakly schistose. May be bedrock? But may just be a large boulder at the bottom of trench. (Trench B)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862789	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine grained grit and phyllite with trace quartz veining and local rusty weathering on surface. (Trench B)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862790	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine grained grit and phyllite with trace quartz veining and local rusty weathering on surface. (Trench B)

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862791	UTM:	605595 E	UTM:	7035867 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Coarse grained, medium grey limestone with light green calcareous banding (marble?). This banding is up to 5 cm (may be more) and may host chlorite stringers ~ 1 mm in thickness.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862792	UTM:	605599 E	UTM:	7035871 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine to medium grained and medium grey grit with quartz clasts up to 1 cm (1%). Weak to moderate limonite patches and stringers found sporadically. Sample was taken as float within moss ~ 50 cm from the sample (to the SE). Rock is weakly to moderately magnetic (Fine grained magnetite?)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862793	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine to medium grained grit and grey weathered phyllite (Trench C)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862794	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine to medium grained grit and grey weathered phyllite (Trench C)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862795	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine to medium grained grit and grey weathered phyllite (Trench C)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862796	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine grained grit, grey matrix with few mm sized quartz clasts within. (Trench C)

Rock Sample DescriptionsProject: Lansing Property: Lance

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862797	UTM:	E	UTM:	N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Interbedded fine to medium grained grit and grey weathered phyllite. Zone of moderate quartz veining within this area (Trench C)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862799	UTM:	602240 E	UTM:	7033606 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Dark grey to black phyllite with rusty staining as patches within the rock and on surface. Found between two large quartz veins. Only 5% of rock in this horizon are relatively limonite rich.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K862800	UTM:	602138 E	UTM:	7033518 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Fine grained, forest green schist with trace fine grained sulphides. Minor quartz veining found within the rock. Taken from a ridge a horizon located between two marble? Layers.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079662	UTM:	602201 E	UTM:	7033648 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein, approximately 4.65 m wide and traced for atleast 100 m, but time constraints prevented total length. Vein strikes at approximately 110 and dips 74 degrees to the northeast. This sample comprises a chip sample of 2.4 m. Black-grey phyllite with rusty weathing is located to the west for approximately 15 m and then another large quartz vein approximately 8 m follows the same trend. (Sample K862796 in field)

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079663	UTM:	602202 E	UTM:	7033648 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein, approximately 4.65 m wide and traced for atleast 100 m, but time constraints prevented total length. Vein strikes at approximately 110 and dips 74 degrees to the northeast. This sample comprises a chip sample of 2.25 m. Black-grey phyllite with rusty weathing is located to the west for approximately 15 m and then another large quartz vein approximately 8 m follows the same trend. (Sample K862797 in field) - same rep at I079662

APPENDIX III
CERTIFICATES OF ANALYSIS



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

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

Page: 1
Finalized Date: 7- JUL- 2012
Account: F

CERTIFICATE WH12151022

Project: Lance
 P.O. No.:
 This report is for 41 Rock samples submitted to our lab in Whitehorse, YT, Canada on 29- JUN- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

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

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

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - A
 Total # Pages: 3 (A - D)
 Plus Appendix Pages
 Finalized Date: 7- JUL- 2012
 Account: F

Project: Lance

CERTIFICATE OF ANALYSIS WH12151022

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
I079809		0.42	0.003	0.02	0.09	986	<0.2	<10	40	0.11	1.17	0.09	0.10	2.52	1.8	15
I079810		0.38	0.003	0.01	0.19	433	<0.2	<10	20	0.12	0.35	0.01	0.04	13.75	2.0	20
I079811		0.22	0.003	0.17	0.33	21.8	<0.2	<10	120	0.16	1.69	0.07	4.86	16.35	9.3	8
I079812		0.27	0.001	0.01	0.90	12.6	<0.2	<10	50	0.20	0.41	0.01	0.03	44.0	3.7	8
I079813		0.30	0.002	0.10	0.31	36.0	<0.2	<10	60	0.21	0.21	0.02	0.10	21.9	3.9	10
I079814		0.34	0.001	0.04	0.46	221	<0.2	<10	100	0.24	0.12	0.10	0.26	13.50	8.1	9
I079815		0.30	0.001	0.02	0.39	7.2	<0.2	<10	70	0.22	0.05	0.05	0.11	23.5	2.9	14
I079816		0.60	0.003	0.13	0.60	22.6	<0.2	<10	70	0.22	2.57	0.02	0.09	40.0	16.0	8
I079817		0.61	0.001	0.02	0.67	35.2	<0.2	<10	70	0.36	0.08	0.08	0.09	19.95	8.8	9
I079818		0.38	0.003	0.06	0.38	149.5	<0.2	<10	160	0.36	0.12	0.06	0.13	22.7	5.6	7
I079819		0.12	0.007	0.07	0.26	102.0	<0.2	<10	60	0.81	0.21	0.12	0.43	22.7	2.8	6
I079820		0.62	0.200	0.01	0.29	2600	0.2	<10	130	0.22	0.29	0.02	0.16	18.25	1.2	9
I079821		0.58	0.002	0.02	0.23	99.6	<0.2	<10	30	0.19	0.38	0.01	0.03	10.10	17.2	9
I079822		0.72	0.002	0.01	0.44	16.8	<0.2	<10	50	0.17	0.12	0.14	0.03	33.2	2.7	9
I079823		0.67	0.001	0.01	0.13	200	<0.2	<10	40	0.11	0.12	0.02	0.03	8.78	3.4	12
I079824		0.43	0.002	0.02	0.14	627	<0.2	<10	20	0.11	0.98	<0.01	0.07	6.45	1.9	13
I079825		0.33	0.005	0.03	0.16	1110	<0.2	<10	50	0.14	0.58	0.01	0.43	13.15	3.1	14
I079826		0.30	0.002	0.05	0.99	90.6	<0.2	<10	30	0.23	1.93	0.32	0.05	5.91	17.6	12
I079827		0.55	0.002	0.02	1.53	32.4	<0.2	<10	40	1.00	0.06	0.01	0.02	41.2	4.2	12
I079828		0.19	0.001	0.01	0.50	23.0	<0.2	<10	80	0.25	0.21	0.10	0.10	37.9	4.4	8
I079829		0.53	0.001	0.03	0.11	14.4	<0.2	<10	20	0.10	0.24	0.01	0.04	8.00	1.7	13
I079830		0.19	0.016	0.22	0.28	1310	<0.2	<10	70	0.13	16.00	0.01	0.04	14.20	5.9	11
I079831		0.36	0.001	0.01	0.51	10.3	<0.2	<10	50	0.21	0.12	0.01	0.02	34.0	2.3	8
I079832		0.36	0.009	0.04	0.32	572	<0.2	<10	40	0.24	0.43	0.01	0.09	30.1	2.1	13
I079833		0.84	0.002	0.02	0.35	200	<0.2	<10	20	0.53	0.08	0.03	0.02	13.10	2.9	16
I079834		0.24	0.163	1.17	0.33	9190	0.2	<10	60	0.45	31.9	0.05	1.67	5.41	0.3	8
I079835		0.38	0.002	0.02	0.29	30.2	<0.2	<10	50	0.18	0.10	0.01	0.06	19.35	3.9	8
I079836		0.41	0.027	0.24	0.55	1350	<0.2	<10	80	0.84	1.88	0.05	0.28	15.55	0.3	2
I079837		0.41	0.075	0.33	0.59	4710	<0.2	<10	130	0.82	6.84	0.08	0.66	12.45	0.2	3
I079838		0.47	0.098	0.57	0.54	8050	<0.2	<10	70	0.79	6.41	0.16	0.89	7.88	0.5	5
I079839		0.56	0.002	0.10	0.17	20.7	<0.2	<10	30	0.15	0.23	0.03	0.07	2.84	3.2	9
I079840		0.33	0.005	0.02	0.17	77.2	<0.2	<10	10	0.12	0.36	0.01	0.01	13.15	0.4	12
I079841		0.34	0.009	0.85	0.48	1065	<0.2	<10	30	0.84	4.78	0.06	0.17	13.50	0.1	3
I079842		0.13	0.001	0.04	0.31	17.5	<0.2	<10	30	0.61	0.30	0.30	0.11	7.27	3.9	9
I079843		0.23	0.001	0.09	0.43	5.3	<0.2	<10	40	0.37	0.17	0.01	0.09	6.12	4.2	8
I079844		0.39	0.002	0.10	4.46	2.3	<0.2	<10	170	1.27	0.72	0.08	0.02	61.0	42.9	47
I079845		0.45	0.001	0.21	1.93	9.2	<0.2	<10	20	1.05	0.47	0.22	0.04	5.82	11.1	10
I079846		0.31	0.002	0.06	0.18	12.5	<0.2	<10	40	0.13	0.08	0.01	0.08	5.75	10.7	10
I079847		0.95	0.594	2.07	0.44	>10000	0.5	<10	50	0.23	95.3	0.01	0.30	18.45	1.1	5
I079848		0.15	0.003	0.39	0.32	6150	<0.2	<10	10	0.13	34.9	0.07	0.03	8.09	5.3	6



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
1079809		0.15	5.6	1.18	0.23	<0.05	0.02	<0.01	0.005	0.02	1.1	1.7	0.02	408	0.18	0.01
1079810		0.52	7.8	1.71	0.57	0.05	0.06	<0.01	0.008	0.11	6.5	1.1	0.02	314	0.27	0.01
1079811		0.93	62.1	5.64	1.00	0.10	0.08	0.03	0.052	0.15	7.4	4.1	0.07	2630	0.19	0.01
1079812		0.99	8.9	2.74	2.63	0.09	0.12	<0.01	0.010	0.22	20.7	11.9	0.20	445	0.25	0.02
1079813		0.39	9.3	2.70	0.90	0.07	0.11	0.02	0.031	0.12	11.2	3.9	0.05	1160	0.25	0.01
1079814		0.34	4.1	4.68	0.83	0.09	0.12	0.02	0.018	0.11	5.8	2.2	0.09	1480	0.53	0.01
1079815		0.47	7.6	3.99	0.78	0.09	0.09	0.02	0.022	0.08	10.6	2.0	0.06	2070	0.25	0.01
1079816		1.87	133.5	9.75	1.24	0.17	0.28	0.01	0.076	0.36	19.4	5.2	0.05	1180	0.28	0.02
1079817		0.35	4.9	4.17	1.03	0.09	0.14	0.01	0.018	0.11	9.1	3.1	0.06	1010	0.16	0.01
1079818		0.40	9.9	2.60	0.85	0.07	0.14	0.03	0.007	0.11	11.2	1.7	0.03	2760	1.51	0.01
1079819		0.60	4.8	1.88	0.98	0.05	0.03	0.01	0.006	0.12	10.7	5.6	0.02	2100	0.38	0.01
1079820		0.34	5.3	1.14	0.72	<0.05	0.04	<0.01	0.008	0.12	9.0	1.3	0.03	100	0.20	0.01
1079821		0.46	26.5	2.35	0.65	0.05	0.07	0.01	0.012	0.08	4.6	1.7	0.03	1380	0.29	0.01
1079822		0.57	3.2	1.16	1.10	0.06	0.21	<0.01	<0.005	0.16	16.6	5.0	0.09	333	0.18	0.01
1079823		0.27	4.8	1.58	0.42	<0.05	0.05	<0.01	0.008	0.06	4.0	1.2	0.02	847	0.34	0.01
1079824		0.44	9.4	1.48	0.42	<0.05	0.03	<0.01	0.009	0.07	2.9	1.5	0.01	281	0.24	0.01
1079825		0.34	17.7	1.29	0.58	<0.05	0.04	<0.01	0.008	0.10	6.2	1.2	0.01	467	0.19	<0.01
1079826		0.37	39.3	2.89	2.60	0.10	0.04	<0.01	0.012	0.09	2.5	41.9	0.42	561	0.19	0.01
1079827		1.09	9.6	3.59	2.67	0.09	0.11	<0.01	0.012	0.13	19.3	35.3	0.37	147	0.13	0.01
1079828		0.72	10.8	1.44	1.13	0.06	0.10	<0.01	0.009	0.23	18.0	2.5	0.04	495	0.27	0.02
1079829		0.21	3.3	1.12	0.39	<0.05	0.02	0.01	0.005	0.04	3.5	1.0	0.01	422	0.16	0.03
1079830		0.58	72.8	2.59	0.89	0.06	0.03	0.01	0.015	0.13	6.6	2.0	0.02	490	0.40	0.02
1079831		0.65	4.9	0.92	1.17	<0.05	0.10	<0.01	<0.005	0.20	16.7	2.8	0.02	106	0.16	0.02
1079832		0.70	32.9	2.26	1.12	0.07	0.13	0.01	0.020	0.17	15.5	1.3	0.01	137	0.48	0.01
1079833		0.30	6.3	1.56	0.93	<0.05	0.04	<0.01	0.007	0.08	6.4	2.8	0.09	503	0.20	0.01
1079834		0.73	4.0	1.38	0.88	<0.05	0.28	0.01	0.055	0.23	2.7	1.1	0.02	95	0.18	0.01
1079835		0.43	3.4	2.97	0.72	0.07	0.14	0.01	0.012	0.10	9.2	0.8	0.03	622	0.22	0.01
1079836		0.99	1.1	0.42	1.59	<0.05	0.59	<0.01	0.012	0.33	7.8	2.0	0.02	110	0.10	0.05
1079837		0.85	1.6	0.72	1.42	<0.05	0.46	<0.01	0.020	0.33	6.2	1.9	0.03	70	0.09	0.03
1079838		0.80	2.4	1.05	1.38	<0.05	0.45	0.01	0.035	0.34	3.8	1.8	0.03	186	0.13	0.02
1079839		0.13	4.0	2.30	0.37	0.05	0.03	0.01	0.009	0.03	1.3	0.9	0.02	631	0.19	0.02
1079840		0.22	6.2	0.79	0.44	<0.05	0.05	<0.01	<0.005	0.05	6.4	1.4	0.01	59	0.21	0.01
1079841		1.13	2.0	0.38	1.68	<0.05	0.55	<0.01	0.012	0.33	6.6	2.4	0.01	136	0.06	0.07
1079842		0.23	4.8	6.00	1.05	0.10	0.11	0.01	0.035	0.05	2.3	3.3	0.07	1120	0.37	0.01
1079843		0.70	9.5	2.43	0.97	0.05	0.03	0.02	0.014	0.04	2.8	4.4	0.05	740	0.18	0.01
1079844		13.30	117.5	6.50	15.55	0.21	0.45	<0.01	0.038	1.43	32.1	51.3	0.89	712	5.18	0.08
1079845		0.32	32.3	5.56	5.83	0.13	0.10	0.02	0.024	0.05	2.2	59.3	0.67	465	0.15	0.01
1079846		0.14	5.7	1.83	0.49	<0.05	0.07	0.01	0.015	0.04	2.9	1.1	0.02	1200	0.42	0.03
1079847		1.21	16.2	10.50	1.41	0.16	0.16	0.01	0.203	0.20	9.5	2.1	0.02	96	0.33	0.01
1079848		0.46	356	30.2	2.31	0.49	0.10	0.01	0.392	0.07	4.0	0.7	0.02	1670	0.41	0.01

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
1079809		<0.05	3.2	360	2.0	1.5	<0.001	0.03	0.78	0.9	0.2	0.2	11.6	<0.01	<0.01	0.4
1079810		<0.05	4.6	70	1.4	7.8	<0.001	<0.01	2.22	0.8	<0.2	0.2	1.9	<0.01	<0.01	4.8
1079811		0.12	13.8	530	25.6	9.9	<0.001	0.01	2.28	1.9	0.4	0.2	12.6	0.01	0.07	2.5
1079812		0.20	7.0	100	2.5	12.4	<0.001	<0.01	2.12	1.4	0.2	0.3	3.8	<0.01	0.01	7.3
1079813		0.05	6.8	310	26.6	5.2	<0.001	<0.01	2.35	5.0	0.3	0.2	5.1	<0.01	0.01	3.4
1079814		0.06	15.4	500	38.6	5.0	<0.001	<0.01	12.85	2.1	0.4	0.2	14.6	<0.01	0.01	1.9
1079815		0.05	8.1	110	2.0	5.1	<0.001	<0.01	2.69	2.2	0.4	0.3	5.2	<0.01	0.01	6.8
1079816		0.14	15.3	100	12.7	25.5	<0.001	0.95	92.0	2.8	0.6	1.9	4.3	0.01	0.02	13.3
1079817		0.06	17.8	400	2.9	4.9	<0.001	0.01	1.55	2.3	0.3	<0.2	10.8	<0.01	0.01	3.3
1079818		0.05	12.1	150	16.6	4.9	<0.001	0.01	2.46	1.5	0.5	0.2	9.0	<0.01	0.02	4.6
1079819		0.15	5.5	260	16.0	9.0	<0.001	0.07	29.2	1.1	0.2	0.6	6.9	<0.01	0.01	2.5
1079820		<0.05	4.6	60	1.9	7.6	<0.001	0.04	2.39	1.1	<0.2	0.2	8.5	<0.01	0.01	5.8
1079821		<0.05	13.8	70	2.8	6.3	<0.001	0.03	3.49	2.1	0.2	0.3	2.5	<0.01	0.01	2.3
1079822		<0.05	5.0	70	1.1	8.6	<0.001	0.02	0.90	0.8	<0.2	0.2	5.2	<0.01	0.01	7.6
1079823		<0.05	5.0	100	1.2	4.3	<0.001	<0.01	1.70	0.9	<0.2	0.2	4.2	<0.01	0.01	2.1
1079824		<0.05	3.2	40	2.1	6.6	<0.001	0.01	0.52	0.8	<0.2	0.4	1.6	<0.01	<0.01	1.8
1079825		<0.05	4.9	60	4.3	6.6	<0.001	0.03	2.40	0.8	<0.2	0.3	2.1	<0.01	0.01	3.2
1079826		0.05	50.3	1560	3.9	5.3	<0.001	0.03	4.03	1.6	0.3	0.4	76.6	<0.01	0.01	2.2
1079827		0.05	13.7	60	5.0	8.5	<0.001	<0.01	2.41	2.1	0.2	0.3	2.9	<0.01	0.01	8.1
1079828		<0.05	9.3	70	1.9	12.4	<0.001	0.03	3.83	1.1	0.2	0.3	4.8	<0.01	0.01	10.4
1079829		<0.05	2.5	50	3.7	2.8	<0.001	<0.01	0.27	1.0	<0.2	<0.2	3.3	<0.01	0.01	2.2
1079830		0.07	7.4	120	21.6	10.4	<0.001	0.07	8.90	1.1	0.5	0.6	7.4	<0.01	0.04	3.8
1079831		<0.05	3.9	70	3.4	9.6	<0.001	<0.01	1.91	0.8	<0.2	<0.2	2.6	<0.01	0.01	7.4
1079832		0.08	5.3	160	3.0	10.1	<0.001	0.01	15.25	1.4	0.2	0.3	2.6	<0.01	0.02	8.3
1079833		<0.05	6.1	30	1.4	4.4	<0.001	<0.01	4.41	1.1	<0.2	0.2	4.2	<0.01	0.01	3.5
1079834		0.16	1.3	50	1045	17.4	<0.001	0.27	63.9	0.4	0.2	1.0	41.3	<0.01	0.02	2.9
1079835		0.05	5.7	60	9.9	4.6	<0.001	<0.01	1.77	1.2	0.2	<0.2	3.8	<0.01	0.01	4.3
1079836		0.27	1.2	100	67.2	26.9	<0.001	0.02	4.66	0.6	0.3	1.0	5.9	0.01	0.01	7.3
1079837		0.17	0.9	80	245	25.5	<0.001	0.12	15.90	0.5	0.2	1.3	23.0	0.01	0.01	6.0
1079838		0.14	1.8	70	170.0	24.1	<0.001	0.26	13.20	0.5	0.3	1.5	24.8	0.01	0.01	4.9
1079839		<0.05	5.3	150	31.5	1.3	<0.001	0.01	0.35	1.6	0.3	<0.2	5.0	<0.01	0.01	0.7
1079840		<0.05	2.2	30	2.4	4.4	<0.001	<0.01	1.14	0.4	<0.2	0.4	1.2	<0.01	<0.01	2.4
1079841		0.37	0.9	120	34.6	28.7	<0.001	0.03	1.34	0.6	0.2	1.2	5.2	0.01	<0.01	7.2
1079842		0.08	5.8	1920	27.5	2.8	<0.001	0.01	3.15	2.9	0.4	0.4	71.5	<0.01	0.01	2.9
1079843		<0.05	7.8	60	53.9	2.8	<0.001	0.01	0.41	1.4	0.2	<0.2	3.3	<0.01	0.01	1.6
1079844		0.61	35.8	380	12.7	164.0	0.001	0.53	0.19	8.2	0.6	1.4	12.8	0.01	0.05	16.8
1079845		0.06	33.4	1150	88.8	2.4	<0.001	0.01	0.53	3.2	0.5	<0.2	51.8	<0.01	0.02	1.3
1079846		<0.05	13.8	50	25.3	2.2	<0.001	<0.01	0.82	1.8	0.2	<0.2	5.3	<0.01	0.01	0.9
1079847		0.18	1.3	690	191.5	11.1	<0.001	0.52	102.5	2.1	0.6	2.3	21.0	<0.01	0.31	6.8
1079848		0.40	10.0	270	47.9	4.6	<0.001	0.07	12.75	1.4	0.4	0.5	10.0	<0.01	0.10	1.9



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
1079809		<0.005	<0.02	0.37	1	<0.05	2.56	6	0.5
1079810		<0.005	0.05	0.44	1	0.05	1.61	17	2.5
1079811		<0.005	0.09	0.67	3	0.05	9.59	443	3.6
1079812		0.015	0.09	0.52	8	0.11	1.57	25	4.9
1079813		<0.005	0.04	1.56	2	<0.05	3.58	24	3.8
1079814		<0.005	0.04	2.85	4	<0.05	9.56	46	4.6
1079815		<0.005	0.03	1.58	2	0.07	8.34	17	3.4
1079816		0.005	0.18	1.38	7	0.19	8.67	28	9.7
1079817		<0.005	0.04	2.16	4	<0.05	7.57	28	5.5
1079818		<0.005	0.05	1.23	3	0.05	8.54	16	7.3
1079819		<0.005	0.08	0.69	3	1.40	4.53	87	0.5
1079820		<0.005	0.05	0.77	2	0.10	1.28	6	1.2
1079821		<0.005	0.06	1.41	1	0.05	2.82	20	3.3
1079822		<0.005	0.06	0.33	2	<0.05	2.57	14	7.3
1079823		<0.005	0.04	0.60	1	0.05	2.15	10	1.9
1079824		<0.005	0.04	0.29	1	0.06	1.37	13	1.0
1079825		<0.005	0.05	0.30	1	0.08	1.75	9	1.6
1079826		<0.005	0.04	0.31	5	0.06	5.15	48	1.2
1079827		<0.005	0.09	0.67	7	0.06	2.30	32	4.2
1079828		<0.005	0.08	0.51	2	0.06	3.69	15	4.2
1079829		<0.005	0.02	0.10	1	<0.05	1.26	12	0.6
1079830		<0.005	0.17	0.90	3	0.08	1.73	20	0.9
1079831		<0.005	0.06	0.59	3	0.05	1.47	8	4.5
1079832		<0.005	0.08	1.87	4	0.17	1.66	25	9.3
1079833		<0.005	0.03	0.67	2	<0.05	2.41	9	4.1
1079834		<0.005	0.12	2.94	<1	0.11	2.54	26	4.7
1079835		<0.005	0.03	0.64	2	<0.05	2.45	32	6.3
1079836		<0.005	0.15	3.44	<1	0.13	5.21	20	10.4
1079837		<0.005	0.14	4.06	<1	0.15	4.19	34	8.8
1079838		<0.005	0.14	3.37	<1	0.19	4.63	64	7.8
1079839		<0.005	<0.02	0.71	1	<0.05	3.06	26	1.4
1079840		<0.005	0.03	0.20	1	0.07	0.65	4	1.9
1079841		<0.005	0.15	2.65	<1	0.15	5.07	21	9.9
1079842		<0.005	0.02	0.54	4	0.05	5.12	45	14.0
1079843		<0.005	0.02	0.63	2	<0.05	2.14	73	1.8
1079844		0.197	0.95	1.65	45	0.22	5.25	139	16.3
1079845		<0.005	0.02	1.21	11	<0.05	5.36	117	8.9
1079846		<0.005	0.04	0.97	1	<0.05	4.21	32	2.8
1079847		<0.005	0.09	0.46	4	0.21	1.04	30	7.3
1079848		<0.005	0.06	1.07	11	0.29	5.67	39	3.4



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
1079849		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
		0.41	0.669	22.7	0.24	>10000	0.6	<10	50	0.11	130.5	<0.01	0.27	15.80	16.3	3

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



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Project: Lance

CERTIFICATE OF ANALYSIS WH12151022

Sample Description	Method Analyte Units LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
1079849		0.62	95.6	10.30	0.65	0.17	0.07	0.01	0.136	0.14	8.0	0.7	0.01	41	0.47	0.01

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CERTIFICATE OF ANALYSIS WH12151022

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
1079849		0.16	2.6	50	1170	6.9	<0.001	6.60	75.9	0.4	1.2	1.2	12.2	<0.01	0.76	5.0

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CERTIFICATE OF ANALYSIS WH12151022

Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
1079849		0.005	0.02	0.05	1	0.05	0.05	2	0.5
		<0.005	0.07	0.31	2	0.07	0.61	14	2.5

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CERTIFICATE OF ANALYSIS WH12151022

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



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CERTIFICATE WH12162748

Project: Lance
 P.O. No.:
 This report is for 48 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
As- OG46	Ore Grade As - Aqua Regia	VARIABLE
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12162748

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
I079850		0.28	0.007	0.36	0.38	4.2	<0.2	<10	10	0.09	0.03	0.10	0.01	7.80	2.4	121
K862751		0.25	0.006	0.10	0.51	43.5	<0.2	<10	30	0.17	0.09	0.04	0.04	13.15	5.3	172
K862753		0.17	0.004	0.08	0.18	7.5	<0.2	<10	10	0.30	0.02	0.17	0.01	4.89	4.7	271
K862754		0.35	0.004	0.02	0.25	8.6	<0.2	<10	10	0.19	0.04	0.64	0.03	8.06	3.4	200
K862755		0.23	0.004	0.11	1.64	24.2	<0.2	<10	60	0.29	0.39	0.01	<0.01	77.9	1.0	67
K862756		0.23	0.006	0.05	0.08	320	<0.2	<10	10	0.10	0.04	0.02	0.02	1.64	1.4	253
K862757		0.18	0.019	0.10	0.57	485	<0.2	<10	20	0.52	0.02	0.45	0.24	9.74	2.7	193
K862758		0.47	0.042	3.63	0.19	1580	<0.2	<10	10	0.13	0.45	1.44	2.37	4.81	7.3	202
K862760		0.36	0.002	0.04	0.33	94.6	<0.2	<10	20	0.23	0.02	0.04	0.04	4.22	3.5	198
K862761		0.28	0.002	0.04	0.50	55.5	<0.2	<10	40	0.26	0.03	0.05	0.07	10.10	3.7	226
K862762		0.14	0.003	0.13	0.45	13.7	<0.2	<10	40	0.25	0.11	1.57	0.29	12.45	4.8	221
K862764		1.16	0.001	0.01	0.69	38.6	<0.2	<10	40	0.20	0.09	0.02	0.04	32.6	3.9	182
K862765		1.19	0.002	0.03	1.92	38.6	<0.2	<10	180	0.50	0.67	0.02	0.08	58.0	6.0	100
K862766		1.25	0.008	0.05	1.15	117.0	<0.2	<10	120	0.84	0.68	0.02	0.12	97.5	21.9	72
K862767		0.78	0.718	0.23	0.46	5690	0.7	<10	60	0.63	2.58	0.02	0.05	42.2	6.3	169
K862768		1.08	0.867	0.33	0.33	7530	0.8	<10	70	0.38	1.48	0.03	0.06	28.2	3.7	153
K862769		1.20	0.009	0.03	1.44	512	<0.2	<10	110	0.96	0.78	0.06	0.03	55.4	7.9	154
K862770		1.47	0.005	0.03	1.16	139.5	<0.2	<10	110	0.55	0.19	0.09	0.05	44.2	7.3	180
K862771		1.10	0.002	0.03	0.91	63.4	<0.2	<10	100	0.46	0.34	0.05	0.06	51.9	6.8	108
K862772		1.14	0.002	0.03	1.12	136.0	<0.2	<10	90	0.64	0.25	0.06	0.05	54.9	8.4	100
K862773		0.38	0.044	0.10	0.29	563	<0.2	<10	40	0.25	0.11	0.06	0.03	10.80	4.4	189
K862774		0.30	1.040	0.08	0.32	>10000	1.1	<10	50	0.18	0.62	0.01	0.01	9.72	5.1	268
K862775		0.41	0.076	0.15	0.52	1655	<0.2	<10	50	0.24	0.07	0.10	0.02	15.10	4.4	173
K862776		0.51	0.044	0.09	0.40	696	<0.2	<10	40	0.22	0.07	0.06	0.04	15.65	3.4	219
K862777		0.37	0.030	0.22	0.66	724	<0.2	<10	70	0.33	0.09	0.04	0.06	23.3	4.8	172
K862778		0.45	0.010	0.06	0.37	190.0	<0.2	<10	70	0.27	0.09	0.55	0.26	14.45	5.1	193
K862780		1.17	0.002	0.02	0.47	93.1	<0.2	<10	60	0.38	0.13	0.05	0.16	30.4	4.6	150
K862781		0.99	0.005	0.19	0.42	300	<0.2	<10	50	0.54	0.72	0.11	0.16	14.75	1.4	80
K862782		1.38	0.023	0.40	0.56	411	<0.2	<10	50	0.74	1.83	0.06	0.16	14.10	1.2	80
K862783		0.94	0.032	0.05	1.16	307	<0.2	<10	120	1.12	0.28	0.12	0.14	90.5	13.2	65
K862784		1.29	0.027	0.17	0.62	746	<0.2	<10	70	0.68	0.74	0.07	0.25	32.8	5.6	91
K862785		1.07	0.002	0.02	1.24	227	<0.2	<10	90	0.54	0.42	0.03	0.02	82.3	10.5	101
K862786		0.98	0.002	0.03	1.27	122.0	<0.2	<10	70	0.35	0.54	0.02	0.02	41.8	11.5	135
K862787		1.25	0.001	0.03	1.32	52.0	<0.2	<10	80	0.42	0.44	0.04	0.04	57.2	12.0	135
K862788		0.71	0.004	0.07	0.29	113.0	<0.2	<10	70	0.21	0.13	9.54	0.31	20.4	4.8	137
K862789		1.24	0.001	0.02	0.59	87.3	<0.2	<10	80	0.29	0.25	0.24	0.14	38.0	7.4	153
K862790		0.68	0.001	0.01	0.47	160.0	<0.2	<10	90	0.21	0.13	0.17	0.15	34.3	5.4	138
K862791		0.74	0.005	0.08	1.08	84	<0.2	<10	10	1.88	0.80	12.45	1.22	32.5	2.3	55
K862792		0.47	0.027	0.03	1.06	28.9	<0.2	<10	80	0.64	0.42	3.61	0.49	22.3	16.8	130
K862793		1.16	0.002	0.01	1.01	26.6	<0.2	<10	70	0.47	0.11	0.70	0.10	41.9	7.0	119



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
I079850		0.13	9.4	0.98	1.16	<0.05	0.04	0.01	<0.005	0.02	3.8	17.3	0.16	106	0.37	0.01
K862751		0.37	21.1	11.60	1.57	0.13	0.10	0.01	0.050	0.06	6.5	8.3	0.16	5640	0.61	0.01
K862753		0.08	18.2	1.53	0.38	<0.05	0.05	0.02	0.011	0.02	2.3	6.5	0.04	447	0.77	0.02
K862754		0.11	15.0	1.35	0.70	<0.05	0.06	0.01	0.012	0.02	3.8	8.3	0.14	717	0.80	0.01
K862755		1.50	23.6	4.82	5.78	0.14	0.31	0.02	0.014	0.22	42.3	46.2	0.64	120	0.68	0.01
K862756		0.19	6.3	1.19	0.25	<0.05	0.04	0.01	<0.005	0.03	0.9	1.3	0.01	105	0.99	<0.01
K862757		0.43	25.0	1.84	0.85	<0.05	0.08	<0.01	0.007	0.10	5.1	11.1	0.27	392	0.58	0.01
K862758		0.26	12.7	1.52	0.42	<0.05	0.06	0.03	0.027	0.07	2.5	1.6	0.43	1060	0.66	0.01
K862760		0.16	9.3	1.00	0.46	<0.05	0.05	0.01	<0.005	0.04	2.2	6.6	0.09	215	0.61	0.01
K862761		0.27	15.4	1.21	0.77	<0.05	0.12	0.01	0.006	0.07	5.4	6.5	0.16	215	0.71	0.01
K862762		0.44	31.5	1.86	1.20	0.05	0.13	0.02	0.009	0.13	6.6	11.6	0.36	423	0.75	0.02
K862764		0.49	7.6	1.87	1.72	0.07	0.07	0.01	0.007	0.10	16.8	17.0	0.19	249	0.65	0.01
K862765		1.08	29.2	4.62	4.62	0.12	0.20	<0.01	0.015	0.19	30.4	43.8	0.67	309	0.45	0.01
K862766		1.41	51.2	4.83	2.68	0.18	0.20	<0.01	0.021	0.29	50.2	11.9	0.22	1190	0.53	0.01
K862767		1.45	26.3	2.17	1.26	0.08	0.14	0.01	0.017	0.19	21.9	2.4	0.03	127	0.61	0.01
K862768		0.92	13.0	1.77	0.98	0.06	0.11	<0.01	0.016	0.17	14.9	1.7	0.02	235	0.54	0.01
K862769		1.59	24.5	3.10	3.27	0.13	0.24	0.01	0.015	0.27	28.8	24.8	0.33	216	0.52	0.02
K862770		1.04	18.2	3.21	2.58	0.10	0.16	0.01	0.015	0.21	22.8	18.0	0.31	460	0.62	0.01
K862771		0.97	17.0	2.34	2.03	0.10	0.20	0.01	0.012	0.18	27.0	10.4	0.24	408	0.40	0.01
K862772		1.89	14.0	2.72	2.48	0.10	0.14	0.01	0.014	0.19	28.4	14.7	0.31	342	0.42	0.01
K862773		0.43	9.8	1.30	0.75	<0.05	0.11	0.01	0.005	0.14	5.7	1.5	0.03	177	3.40	0.01
K862774		0.59	6.3	3.07	0.89	0.06	0.07	0.01	0.032	0.18	5.4	0.9	0.01	61	0.84	0.01
K862775		0.54	16.5	1.87	1.08	<0.05	0.12	<0.01	0.011	0.18	8.0	2.2	0.11	292	0.63	0.02
K862776		0.40	10.2	1.17	0.82	<0.05	0.09	0.01	0.005	0.12	8.2	2.3	0.07	122	0.73	0.02
K862777		0.66	25.7	2.53	1.48	0.06	0.16	0.01	0.010	0.22	12.0	3.0	0.09	218	0.58	0.02
K862778		0.40	10.5	1.67	0.83	<0.05	0.12	0.01	0.007	0.15	7.5	1.6	0.06	650	0.62	0.02
K862780		0.61	8.4	1.68	1.06	0.06	0.06	0.01	0.007	0.15	15.1	4.8	0.07	399	0.50	0.01
K862781		0.56	3.8	0.42	1.30	<0.05	0.56	<0.01	0.011	0.25	7.4	5.2	0.03	257	0.25	0.04
K862782		0.74	4.4	0.48	1.55	<0.05	0.68	<0.01	0.014	0.31	7.6	4.7	0.03	112	0.24	0.05
K862783		1.15	34.9	3.02	2.53	0.16	0.24	0.02	0.019	0.32	48.8	6.3	0.16	523	0.44	0.01
K862784		0.85	23.5	2.25	1.38	0.08	0.30	0.01	0.013	0.23	17.2	5.1	0.07	349	0.69	0.02
K862785		1.32	19.0	2.77	3.01	0.14	0.19	<0.01	0.012	0.26	44.2	21.8	0.30	375	0.58	0.01
K862786		1.05	21.3	3.48	2.99	0.10	0.15	0.01	0.017	0.18	21.4	30.9	0.37	634	0.53	0.01
K862787		0.94	24.4	3.40	3.51	0.11	0.13	0.01	0.012	0.19	31.1	33.9	0.43	683	0.57	0.01
K862788		0.40	11.3	1.59	0.66	0.05	0.15	0.03	0.009	0.09	10.9	1.4	0.11	1690	0.84	0.02
K862789		0.81	11.6	2.22	1.33	0.07	0.12	<0.01	0.010	0.17	19.6	6.6	0.10	640	0.57	0.01
K862790		0.70	7.5	1.44	0.96	<0.05	0.12	<0.01	0.008	0.15	16.4	4.2	0.07	633	0.50	0.02
K862791		0.19	10.1	0.71	3.95	0.31	0.28	0.33	0.067	0.01	15.4	1.8	0.06	530	6.80	0.02
K862792		0.76	39.5	1.48	3.64	0.09	0.19	0.01	0.040	0.12	11.3	24.3	0.34	456	1.45	0.02
K862793		0.75	10.9	1.87	2.44	0.05	0.13	0.02	0.011	0.18	20.6	20.6	0.23	293	0.71	0.01



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CERTIFICATE OF ANALYSIS WH12162748

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
I079850		<0.05	7.9	110	9.2	1.3	<0.001	0.01	0.24	0.6	<0.2	<0.2	9.1	<0.01	<0.01	2.4
K862751		0.12	17.9	50	7.3	2.9	<0.001	0.20	2.29	2.5	0.5	0.2	8.3	<0.01	0.03	3.1
K862753		0.07	13.1	530	4.0	1.0	<0.001	0.01	0.68	1.3	0.2	0.2	27.2	<0.01	0.01	2.2
K862754		0.06	11.9	680	4.2	1.1	<0.001	0.03	0.52	2.0	0.3	0.2	55.1	<0.01	0.01	2.3
K862755		0.05	12.1	180	31.2	10.0	<0.001	0.08	3.18	1.7	0.4	0.2	7.8	<0.01	0.03	13.3
K862756		0.06	9.8	50	3.6	1.7	<0.001	<0.01	4.79	0.6	<0.2	0.2	4.4	<0.01	<0.01	1.4
K862757		<0.05	19.1	70	21.4	4.7	<0.001	0.50	0.86	1.2	0.2	0.2	29.6	<0.01	0.01	4.6
K862758		<0.05	14.0	130	1790	3.7	<0.001	0.18	24.9	1.1	0.7	0.3	86.4	<0.01	0.02	1.9
K862760		<0.05	18.8	60	6.4	1.8	<0.001	0.01	0.74	0.8	<0.2	0.2	4.8	<0.01	<0.01	2.4
K862761		<0.05	20.3	50	7.4	3.3	<0.001	0.05	0.70	0.9	0.2	0.2	7.7	<0.01	<0.01	4.5
K862762		0.05	18.5	90	47.5	6.1	<0.001	0.48	0.84	1.4	1.2	0.2	32.6	<0.01	0.02	4.7
K862764		0.05	15.0	90	4.3	5.7	<0.001	0.01	2.04	1.2	0.2	0.2	4.4	<0.01	0.01	6.3
K862765		0.08	20.0	160	5.6	10.1	<0.001	0.04	4.31	2.1	0.3	0.4	7.0	<0.01	0.02	12.0
K862766		0.08	41.3	240	6.0	15.3	<0.001	0.02	6.33	2.4	0.3	0.3	7.8	<0.01	0.03	15.8
K862767		0.05	14.7	110	5.2	11.1	<0.001	0.19	6.59	1.4	0.3	0.3	10.8	<0.01	0.02	8.5
K862768		0.05	10.7	180	3.0	9.6	<0.001	0.22	5.47	1.3	0.3	0.3	11.1	<0.01	0.02	8.3
K862769		0.07	23.7	190	5.3	15.0	<0.001	0.01	2.75	2.4	0.2	0.4	9.2	<0.01	0.02	9.6
K862770		0.06	24.2	180	4.9	10.5	<0.001	0.01	3.91	2.3	0.3	0.3	9.7	<0.01	0.02	7.8
K862771		<0.05	17.6	100	4.4	9.0	<0.001	0.01	7.20	1.9	0.3	0.2	7.2	<0.01	0.01	9.7
K862772		<0.05	22.4	110	3.3	10.3	<0.001	0.01	5.66	2.1	0.3	0.3	8.2	<0.01	0.01	9.5
K862773		0.05	14.2	180	15.7	6.7	<0.001	0.17	2.48	0.8	0.2	0.2	11.8	<0.01	0.01	3.2
K862774		0.07	15.0	20	18.5	9.9	<0.001	1.04	20.9	1.0	0.2	1.1	8.6	<0.01	0.04	3.8
K862775		<0.05	12.5	50	4.5	8.7	<0.001	0.44	4.03	1.2	0.2	0.3	13.8	<0.01	0.01	6.0
K862776		0.07	12.3	50	10.5	5.6	<0.001	0.09	2.16	0.8	<0.2	0.2	6.8	<0.01	0.01	5.6
K862777		0.06	16.8	70	15.6	9.9	<0.001	0.23	4.77	1.5	<0.2	0.3	7.8	<0.01	0.01	8.3
K862778		0.06	16.6	80	19.8	6.6	<0.001	0.14	1.22	1.3	0.2	0.2	12.4	<0.01	0.01	5.2
K862780		0.06	12.0	90	4.4	8.4	<0.001	0.02	2.14	1.2	0.2	0.2	4.6	<0.01	0.01	6.0
K862781		0.31	5.1	70	18.7	20.0	<0.001	0.03	3.63	0.6	0.2	0.7	6.9	0.01	<0.01	6.2
K862782		0.33	4.5	70	115.0	23.2	<0.001	0.03	5.24	0.6	0.2	0.9	6.2	<0.01	0.01	6.2
K862783		0.10	28.7	660	6.9	15.9	<0.001	0.01	8.38	2.8	0.4	0.3	19.9	<0.01	0.02	14.0
K862784		0.20	13.2	350	25.0	14.2	<0.001	0.02	9.95	1.5	0.3	0.4	13.8	<0.01	0.01	8.7
K862785		0.06	22.3	210	3.6	12.9	<0.001	0.02	2.77	1.7	0.3	0.3	9.2	<0.01	0.02	13.2
K862786		0.06	23.5	160	5.3	10.1	<0.001	0.05	2.74	2.2	0.2	0.4	6.6	<0.01	0.02	9.1
K862787		0.07	26.9	190	5.5	9.9	<0.001	0.02	1.18	1.9	0.2	0.3	8.3	<0.01	0.02	10.0
K862788		0.09	14.9	200	22.1	3.9	<0.001	0.02	0.88	1.9	0.5	0.2	209	<0.01	0.01	5.6
K862789		0.06	17.5	130	3.0	9.9	<0.001	0.01	2.68	1.6	0.2	0.2	7.6	<0.01	0.01	6.9
K862790		0.05	12.2	80	4.5	8.4	<0.001	0.02	3.55	1.3	<0.2	0.3	5.7	<0.01	<0.01	7.0
K862791		2.54	3.9	840	6.6	1.0	0.002	0.04	6.43	2.3	0.4	6.2	432	0.01	0.01	5.6
K862792		2.14	29.6	130	4.6	15.0	<0.001	0.13	22.5	2.0	0.5	5.3	181.0	0.01	0.03	6.5
K862793		0.17	14.2	150	4.5	8.6	<0.001	0.01	1.99	1.5	<0.2	0.5	26.2	<0.01	0.01	6.8



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	As- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
I079850		<0.005	<0.02	0.43	3	5.47	0.90	20	1.2	
K862751		<0.005	0.05	2.23	5	0.42	11.20	19	2.7	
K862753		<0.005	<0.02	0.54	2	2.91	3.25	20	1.9	
K862754		<0.005	<0.02	0.63	2	0.24	4.35	23	1.9	
K862755		<0.005	0.09	0.79	13	0.36	2.83	48	11.4	
K862756		<0.005	0.04	0.37	1	0.21	0.55	9	1.3	
K862757		<0.005	0.03	1.65	2	0.93	1.94	25	3.0	
K862758		<0.005	0.03	0.23	1	0.19	2.44	257	2.0	
K862760		<0.005	<0.02	0.52	2	0.68	1.02	18	2.1	
K862761		<0.005	0.02	0.90	2	0.13	1.11	24	4.4	
K862762		<0.005	0.05	0.38	3	0.99	2.83	29	4.3	
K862764		<0.005	0.04	0.48	5	0.12	1.92	28	3.4	
K862765		<0.005	0.09	1.16	12	0.19	2.79	59	8.8	
K862766		<0.005	0.12	1.22	6	0.14	3.94	78	10.0	
K862767		<0.005	0.09	0.77	3	0.49	2.51	16	6.1	
K862768		<0.005	0.08	0.58	2	0.15	2.67	8	4.5	
K862769		<0.005	0.14	1.06	8	0.41	3.97	37	7.9	
K862770		<0.005	0.09	0.72	7	0.10	4.25	40	6.3	
K862771		<0.005	0.08	0.59	5	0.18	3.86	28	8.3	
K862772		<0.005	0.10	0.65	6	0.06	3.78	36	6.4	
K862773		<0.005	0.05	0.51	2	0.41	1.46	14	4.7	
K862774		<0.005	0.08	0.31	3	0.27	0.81	2	2.6	2.81
K862775		<0.005	0.06	0.54	3	0.48	1.63	12	5.1	
K862776		<0.005	0.04	0.51	2	0.12	1.18	15	4.2	
K862777		<0.005	0.07	0.68	4	0.54	2.07	30	6.7	
K862778		<0.005	0.04	0.50	2	0.15	2.10	49	5.6	
K862780		<0.005	0.07	0.58	3	0.22	2.55	25	3.0	
K862781		<0.005	0.12	2.07	1	0.12	3.62	15	11.0	
K862782		<0.005	0.15	2.40	<1	0.20	4.37	32	13.2	
K862783		<0.005	0.13	2.33	7	0.14	6.86	82	12.0	
K862784		<0.005	0.10	1.53	3	0.22	4.32	40	9.8	
K862785		<0.005	0.10	1.15	7	0.07	3.41	34	10.2	
K862786		<0.005	0.09	0.90	7	0.17	3.09	42	7.1	
K862787		<0.005	0.07	1.09	8	0.07	3.31	55	6.6	
K862788		<0.005	0.05	1.10	3	0.18	8.13	31	7.4	
K862789		<0.005	0.08	0.73	4	0.07	3.31	26	5.7	
K862790		<0.005	0.06	0.61	3	0.17	2.72	22	5.6	
K862791		0.096	0.04	2.05	11	410	15.90	159	9.5	
K862792		0.115	0.08	0.82	15	6.76	6.91	83	6.3	
K862793		0.011	0.06	0.52	6	15.55	3.42	32	7.6	



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K862794		1.24	0.001	0.01	0.93	24.3	<0.2	<10	80	0.37	0.10	0.07	0.06	56.0	6.3	136
K862795		1.09	0.001	0.01	1.13	25.6	<0.2	<10	80	0.38	0.06	0.03	0.05	46.5	11.2	160
K862796		1.30	0.001	0.02	1.13	35.5	<0.2	<10	80	0.41	0.19	0.05	0.08	51.5	9.9	120
K862797		1.14	0.001	0.01	0.65	12.5	<0.2	<10	70	0.17	0.09	0.04	0.09	35.8	5.0	173
K862799		0.38	0.004	0.26	1.69	19.4	<0.2	<10	260	0.59	0.29	0.01	0.12	72.1	0.9	62
K862800		0.24	0.001	0.02	2.46	12.5	<0.2	<10	70	0.63	0.09	0.04	0.03	73.8	20.9	113
I079662		0.47	0.005	0.19	0.08	12.1	<0.2	<10	20	0.05	0.01	<0.01	0.02	1.79	0.7	219
I079663		0.41	0.004	0.23	0.11	9.4	<0.2	<10	20	0.06	0.01	0.01	0.03	2.32	0.7	215

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
K862794		1.02	15.5	2.06	2.17	0.06	0.18	<0.01	0.009	0.20	28.2	19.7	0.23	402	0.43	0.01
K862795		1.05	11.2	2.46	2.66	0.05	0.13	<0.01	0.011	0.19	22.9	23.7	0.31	652	0.61	0.01
K862796		1.06	24.2	2.88	3.08	0.07	0.16	<0.01	0.012	0.21	25.7	24.2	0.31	628	0.50	0.01
K862797		0.80	8.8	2.09	1.65	<0.05	0.15	<0.01	0.008	0.19	17.8	10.1	0.13	535	0.60	0.01
K862799		2.16	15.5	2.15	4.55	0.10	0.11	0.03	0.035	0.13	38.9	26.3	0.19	65	1.27	0.03
K862800		1.91	15.0	4.64	10.70	0.10	0.11	0.01	0.020	0.29	36.6	89.1	1.00	550	0.34	0.01
I079662		0.07	8.8	0.68	0.22	<0.05	0.03	0.01	<0.005	0.01	0.9	0.5	<0.01	28	0.94	0.01
I079663		0.09	11.9	0.71	0.26	<0.05	0.03	0.01	<0.005	0.02	1.1	0.8	0.01	33	1.14	0.01

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	
K862794		0.19	14.8	120	4.3	8.8	<0.001	<0.01	3.14	1.4	<0.2	0.2	7.6	<0.01	0.01	8.7
K862795		0.16	19.4	110	2.5	10.1	<0.001	<0.01	2.26	1.7	0.2	0.3	5.4	<0.01	0.01	8.3
K862796		0.22	20.1	200	5.0	10.2	<0.001	0.01	4.00	1.8	0.2	0.2	8.5	<0.01	0.01	8.1
K862797		0.20	12.4	100	4.9	8.8	<0.001	<0.01	1.39	1.2	<0.2	0.2	5.8	<0.01	0.01	6.1
K862799		<0.05	11.1	890	8.4	7.6	0.002	0.05	0.32	3.4	1.4	0.3	14.2	<0.01	0.06	10.9
K862800		0.25	40.4	280	8.5	23.3	<0.001	0.01	1.58	3.7	0.2	0.5	13.3	<0.01	0.01	13.7
I079662		0.10	5.7	130	1.9	0.7	<0.001	0.01	0.49	0.3	0.3	0.2	1.9	<0.01	<0.01	0.4
I079663		0.09	7.3	140	2.2	1.1	<0.001	0.01	0.78	0.3	0.4	0.2	3.3	<0.01	0.01	0.5

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	As- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	As %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
K862794		0.030	0.07	0.55	6	0.40	3.20	26	9.2	
K862795		0.023	0.08	0.63	8	0.46	3.05	30	7.1	
K862796		0.031	0.08	1.04	9	0.28	3.49	31	8.5	
K862797		0.019	0.07	0.63	5	0.27	2.75	17	7.6	
K862799		<0.005	0.05	1.18	36	0.17	4.60	20	4.8	
K862800		0.027	0.19	1.65	37	0.18	7.02	78	5.0	
I079662		<0.005	<0.02	0.35	7	0.42	0.44	3	1.4	
I079663		<0.005	<0.02	0.40	8	0.17	0.62	4	1.5	

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



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CERTIFICATE WH12163642

Project: Lance
 P.O. No.:
 This report is for 2 Rock samples submitted to our lab in Whitehorse, YT, Canada on 16- JUL- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
As- OG46	Ore Grade As - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12163642

Sample Description	Method Analyte Units LOR	As- OG46 As % 0.01
1079847 1079849		13.80 9.51



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Page: 1
Finalized Date: 20- JUL- 2012
Account: F

CERTIFICATE WH12150392

Project: Lance
 P.O. No.:
 This report is for 162 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29- JUN- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

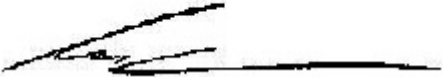
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

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

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 Account: F

Project: Lance

CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64001		0.26	0.009	0.33	1.43	265	<0.2	<10	80	0.67	1.03	0.49	0.07	50.8	13.7	15
ZZ64002		0.21	0.001	0.11	1.65	104.5	<0.2	<10	30	0.30	0.85	0.04	0.15	107.5	11.1	19
ZZ64003		0.26	0.003	0.15	0.89	57.1	<0.2	<10	40	0.60	0.74	0.08	0.15	145.5	30.7	8
ZZ64004		0.36	0.003	0.15	1.60	96.7	<0.2	<10	80	0.56	0.46	0.14	0.06	50.0	15.0	17
ZZ64005		0.39	0.008	0.11	1.38	163.0	<0.2	<10	110	0.53	0.49	0.25	0.11	61.8	12.1	18
ZZ64006		0.27	0.003	0.11	1.34	66.8	<0.2	<10	150	0.49	0.33	0.23	0.08	50.3	7.2	18
ZZ64007		0.32	0.002	0.08	1.39	81.2	<0.2	<10	90	0.35	0.36	0.06	0.17	53.7	7.5	19
ZZ64008		0.32	0.001	0.06	1.63	97.6	<0.2	<10	100	0.49	0.44	0.04	0.11	52.6	10.5	20
ZZ64009		0.32	0.005	0.18	1.25	102.0	<0.2	<10	190	0.54	0.35	0.17	0.31	50.1	9.0	18
ZZ64010		0.33	0.008	0.18	1.27	126.5	<0.2	<10	190	0.56	0.38	0.19	0.52	61.9	13.0	18
ZZ64011		0.33	0.005	0.14	1.21	189.5	<0.2	<10	120	0.53	0.30	0.16	0.51	53.4	11.8	19
ZZ64012		0.29	0.004	0.09	1.26	154.0	<0.2	<10	160	0.59	0.41	0.11	0.41	54.1	11.6	17
ZZ64013		0.18	0.009	0.31	1.12	141.0	<0.2	<10	50	0.30	0.37	0.05	0.14	39.9	6.0	15
ZZ64014		0.22	0.004	0.18	0.99	141.5	<0.2	<10	70	0.25	0.62	0.07	0.13	48.2	5.9	16
ZZ64015		0.23	0.004	0.05	1.46	168.0	<0.2	<10	100	0.35	0.52	0.07	0.18	50.0	7.5	22
ZZ64016		0.34	0.002	0.08	1.06	174.5	<0.2	<10	70	0.29	0.45	0.11	0.15	45.0	6.6	16
ZZ64017		0.30	0.005	0.15	0.78	798	<0.2	<10	110	0.35	2.06	1.11	0.23	31.2	9.2	11
ZZ64018		0.26	0.009	0.08	0.80	631	<0.2	<10	70	0.28	1.91	0.05	0.16	41.4	6.1	12
ZZ64019		0.30	0.007	0.10	1.28	805	<0.2	<10	110	0.58	4.44	0.29	0.17	37.7	15.2	16
ZZ64020		0.24	0.005	0.47	2.03	129.5	<0.2	<10	120	0.59	0.94	0.06	0.23	42.0	10.8	21
ZZ64021		0.27	<0.001	0.03	0.61	67.6	<0.2	<10	40	0.13	0.45	0.02	0.04	63.7	4.4	9
ZZ64022		0.22	<0.001	0.04	1.06	157.0	<0.2	<10	70	0.31	1.18	0.04	0.08	47.5	9.0	15
ZZ64023		0.26	0.002	0.05	1.56	155.0	<0.2	<10	130	0.60	0.91	0.06	0.18	44.2	12.1	19
ZZ64024		0.21	0.005	0.17	1.73	1030	<0.2	<10	150	0.76	1.28	0.17	1.21	42.8	9.2	22
ZZ64025		0.23	0.004	0.04	0.97	792	<0.2	<10	140	0.49	1.32	0.09	0.22	51.5	11.0	13
ZZ64026		0.21	0.008	0.11	1.19	1535	<0.2	<10	120	0.44	9.31	0.07	0.26	35.9	11.6	18
ZZ64027		0.22	0.014	0.19	0.85	457	<0.2	<10	80	0.63	1.93	0.03	0.18	62.1	17.9	10
ZZ64028		0.22	0.008	0.05	1.11	123.5	<0.2	<10	100	0.32	1.13	0.12	0.23	81.3	3.9	13
ZZ64029		0.26	0.015	0.17	1.18	419	<0.2	<10	120	0.70	1.40	0.13	0.32	63.8	14.1	15
ZZ64030		0.23	0.009	0.25	1.23	588	<0.2	<10	210	0.58	1.06	0.56	0.29	42.9	12.8	17
ZZ64031		0.24	0.007	0.10	1.00	518	<0.2	<10	70	0.49	2.61	0.07	0.07	108.5	11.9	12
ZZ64032		0.23	0.001	0.23	0.83	243	<0.2	<10	110	0.38	1.77	0.17	0.16	73.9	9.0	11
ZZ64033		0.26	0.003	0.23	1.38	126.0	<0.2	<10	320	0.48	0.49	0.42	0.33	28.7	8.8	19
ZZ64034		0.24	0.004	0.23	1.12	134.5	<0.2	<10	120	0.60	0.28	0.22	1.08	37.0	16.0	18
ZZ64035		0.21	0.003	0.11	1.05	286	<0.2	<10	70	0.38	1.30	0.21	0.17	81.8	10.8	13
ZZ64036		0.29	0.004	0.15	1.14	108.5	<0.2	<10	80	0.29	0.49	0.06	0.15	40.3	6.0	17
ZZ64037		0.25	0.003	0.11	1.70	343	<0.2	<10	50	0.84	1.83	0.05	0.16	115.5	26.3	19
ZZ64038		0.28	0.018	0.17	1.41	272	<0.2	<10	120	0.65	1.30	0.44	0.12	64.9	11.0	17
ZZ64039		0.21	<0.001	0.08	1.10	78.7	<0.2	<10	30	0.22	0.71	0.08	0.09	82.2	7.6	15
ZZ64040		0.25	0.001	0.42	1.34	133.0	<0.2	<10	70	0.80	1.07	0.72	0.11	68.1	15.2	14

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Project: Lance

CERTIFICATE OF ANALYSIS WH12150392

Sample Description	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ64001	4.69	39.7	3.13	3.70	0.08	0.20	0.04	0.021	0.07	28.9	24.7	0.35	768	0.46	0.01
ZZ64002	2.15	49.6	4.71	5.24	0.13	0.05	0.02	0.022	0.03	56.2	41.0	0.50	381	0.97	0.02
ZZ64003	3.10	55.3	4.60	2.52	0.17	0.06	0.01	0.038	0.04	73.2	16.5	0.26	1040	0.57	0.02
ZZ64004	2.43	36.3	3.98	4.26	0.09	0.07	0.02	0.021	0.04	25.4	44.6	0.51	510	0.51	0.02
ZZ64005	1.17	24.9	3.24	3.75	0.08	0.09	0.02	0.021	0.04	30.4	31.4	0.43	354	0.91	0.01
ZZ64006	1.13	21.4	2.61	3.71	0.07	0.10	0.03	0.018	0.04	25.7	26.9	0.39	220	0.96	0.02
ZZ64007	1.39	18.9	3.04	4.56	0.08	<0.02	0.03	0.020	0.05	27.5	22.9	0.31	288	1.18	0.02
ZZ64008	2.32	27.5	3.64	4.54	0.09	0.07	0.02	0.023	0.05	26.5	38.3	0.43	359	0.92	0.02
ZZ64009	1.26	24.3	2.82	3.51	0.08	0.06	0.06	0.020	0.05	25.2	24.3	0.37	362	1.34	0.02
ZZ64010	1.35	37.5	3.18	3.54	0.10	0.04	0.07	0.022	0.06	31.3	23.1	0.40	552	1.73	0.02
ZZ64011	1.10	30.7	2.91	3.39	0.09	0.07	0.04	0.021	0.05	25.8	22.0	0.39	414	1.73	0.02
ZZ64012	1.25	32.4	3.09	3.65	0.09	0.03	0.06	0.022	0.05	27.2	21.0	0.35	490	1.78	0.02
ZZ64013	2.43	16.9	2.77	3.65	0.07	0.02	0.04	0.018	0.04	20.3	22.6	0.28	176	0.89	0.02
ZZ64014	2.30	16.4	2.55	4.34	0.07	<0.02	0.03	0.015	0.05	24.7	16.8	0.24	318	1.20	0.02
ZZ64015	1.54	19.0	2.98	4.99	0.08	<0.02	0.02	0.022	0.05	25.8	21.0	0.37	316	1.35	0.02
ZZ64016	1.17	17.4	3.27	4.12	0.07	<0.02	0.03	0.020	0.05	23.0	18.0	0.27	248	1.39	0.02
ZZ64017	1.57	24.9	3.14	3.53	0.07	0.02	0.03	0.018	0.06	15.5	6.9	0.14	763	1.02	0.02
ZZ64018	2.03	18.4	3.13	4.91	<0.05	<0.02	0.05	0.025	0.06	21.4	7.2	0.10	244	1.48	<0.01
ZZ64019	2.40	27.3	3.64	3.52	<0.05	0.02	0.05	0.029	0.06	17.1	26.5	0.29	510	0.93	<0.01
ZZ64020	1.74	22.8	3.79	3.78	0.08	0.09	0.10	0.033	0.06	21.1	27.7	0.28	259	1.47	<0.01
ZZ64021	1.93	16.8	2.01	4.08	0.06	<0.02	0.04	0.013	0.04	31.9	4.4	0.07	114	1.20	<0.01
ZZ64022	3.63	17.5	3.19	4.85	0.06	<0.02	0.03	0.019	0.06	24.1	17.5	0.25	272	1.16	<0.01
ZZ64023	2.02	25.2	3.20	4.52	0.06	0.03	0.05	0.027	0.06	20.8	24.3	0.30	479	1.49	<0.01
ZZ64024	1.97	53.9	4.36	5.64	0.05	0.02	0.11	0.367	0.05	15.9	15.4	0.19	1830	1.70	<0.01
ZZ64025	2.59	16.5	2.71	4.33	0.05	<0.02	0.05	0.023	0.06	24.4	13.3	0.18	662	1.06	<0.01
ZZ64026	2.48	25.5	3.78	4.16	<0.05	<0.02	0.07	0.034	0.06	15.7	17.4	0.26	494	1.52	<0.01
ZZ64027	2.64	31.9	4.03	2.39	0.06	<0.02	0.03	0.024	0.05	32.9	12.3	0.11	570	1.32	<0.01
ZZ64028	2.29	17.0	1.78	3.93	0.06	0.03	0.03	0.013	0.05	42.8	17.6	0.20	130	0.59	<0.01
ZZ64029	1.88	40.7	3.34	3.28	0.07	0.03	0.05	0.027	0.05	31.6	24.7	0.35	567	1.48	<0.01
ZZ64030	1.75	31.7	3.55	4.95	0.05	<0.02	0.06	0.029	0.06	20.8	15.8	0.27	612	2.11	0.01
ZZ64031	2.41	31.5	3.74	3.21	0.09	0.02	0.03	0.022	0.06	53.0	18.8	0.25	418	0.71	<0.01
ZZ64032	2.61	43.3	3.48	4.21	0.07	<0.02	0.05	0.023	0.05	36.4	4.8	0.09	277	1.44	<0.01
ZZ64033	2.03	24.8	2.89	6.05	0.07	<0.02	0.03	0.029	0.08	15.5	14.0	0.28	666	2.50	0.01
ZZ64034	1.07	32.1	3.33	3.13	0.06	0.06	0.08	0.026	0.06	18.0	17.2	0.37	1160	2.91	<0.01
ZZ64035	2.41	26.2	3.25	4.54	0.08	0.02	0.03	0.022	0.04	40.7	21.4	0.27	558	0.73	<0.01
ZZ64036	1.91	19.9	2.58	4.64	0.05	<0.02	0.03	0.021	0.05	19.9	13.1	0.21	310	1.48	<0.01
ZZ64037	3.73	39.6	4.49	4.74	0.12	0.05	0.04	0.029	0.04	57.9	44.0	0.47	1020	0.70	<0.01
ZZ64038	2.15	44.4	3.27	4.22	0.06	0.08	0.04	0.020	0.04	33.9	30.6	0.38	541	0.83	<0.01
ZZ64039	2.49	25.3	3.00	4.58	0.07	0.03	0.02	0.018	0.03	43.6	23.5	0.31	425	0.58	<0.01
ZZ64040	4.27	51.7	2.84	3.60	0.07	0.14	0.05	0.025	0.06	38.8	28.1	0.38	663	0.51	<0.01

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CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ64001		0.09	21.9	870	26.6	7.8	<0.001	0.05	3.88	1.6	0.6	0.3	32.9	<0.01	0.06	5.1
ZZ64002		0.38	28.1	360	23.7	4.0	<0.001	0.02	2.79	1.5	0.4	0.3	6.7	<0.01	0.06	9.3
ZZ64003		0.11	38.1	580	50.0	3.8	<0.001	0.02	1.86	2.0	0.3	0.2	14.4	<0.01	0.05	15.1
ZZ64004		0.14	30.3	480	31.8	5.0	<0.001	0.02	1.57	1.9	0.4	0.2	18.3	<0.01	0.06	5.7
ZZ64005		0.40	23.7	410	26.7	5.4	<0.001	0.03	1.64	2.0	0.5	0.3	20.7	<0.01	0.04	5.4
ZZ64006		0.42	20.9	580	14.0	6.4	<0.001	0.03	1.43	1.9	0.5	0.3	18.0	<0.01	0.03	3.4
ZZ64007		0.40	17.9	650	19.2	7.5	<0.001	0.02	1.59	1.1	0.6	0.4	8.1	<0.01	0.05	1.0
ZZ64008		0.35	24.7	510	26.5	7.5	<0.001	0.02	1.79	1.7	0.5	0.3	7.9	<0.01	0.05	4.1
ZZ64009		0.42	23.0	710	18.9	6.6	<0.001	0.02	2.05	2.1	0.5	0.3	16.1	<0.01	0.04	3.6
ZZ64010		0.53	30.1	840	24.0	5.8	<0.001	0.01	3.09	2.8	0.7	0.3	18.5	<0.01	0.05	6.9
ZZ64011		0.52	26.3	790	17.6	6.2	<0.001	0.01	2.56	2.5	0.7	0.3	16.6	<0.01	0.04	5.0
ZZ64012		0.41	26.0	780	20.8	7.3	<0.001	0.01	3.23	2.1	0.8	0.3	13.2	<0.01	0.05	2.7
ZZ64013		0.22	15.9	960	18.6	7.1	<0.001	0.03	1.26	0.6	0.4	0.3	7.5	<0.01	0.04	0.7
ZZ64014		0.21	13.2	800	16.3	10.6	<0.001	0.03	1.41	0.5	0.4	0.4	10.3	<0.01	0.04	0.4
ZZ64015		0.60	18.1	500	15.9	8.8	<0.001	0.01	2.23	1.5	0.5	0.5	9.6	<0.01	0.04	1.6
ZZ64016		0.45	16.7	540	22.5	8.8	<0.001	0.02	2.29	1.2	0.5	0.3	9.1	<0.01	0.05	1.9
ZZ64017		0.49	14.7	650	12.8	9.0	<0.001	0.05	7.07	1.1	0.5	0.4	65.3	<0.01	0.06	1.4
ZZ64018		0.65	12.6	420	18.8	10.7	<0.001	0.01	3.88	0.7	0.4	0.6	6.1	<0.01	0.06	0.5
ZZ64019		0.59	26.5	460	18.8	10.7	<0.001	0.02	2.15	1.8	0.4	0.5	28.5	<0.01	0.05	5.7
ZZ64020		0.89	23.3	400	26.4	10.1	<0.001	0.02	1.69	2.5	1.1	0.4	8.4	0.01	0.04	7.6
ZZ64021		0.52	10.1	330	6.4	7.7	<0.001	<0.01	0.73	0.7	0.5	0.6	4.4	<0.01	0.06	1.1
ZZ64022		0.67	17.2	460	9.0	14.7	<0.001	0.01	1.09	1.2	0.6	0.5	7.4	<0.01	0.07	3.1
ZZ64023		0.73	23.3	520	20.0	11.7	0.001	0.01	1.41	1.9	0.5	0.5	8.7	<0.01	0.04	3.6
ZZ64024		1.18	21.5	400	67.4	10.5	<0.001	0.02	6.17	2.3	0.7	0.7	13.1	0.01	0.06	5.1
ZZ64025		0.65	14.0	480	15.3	15.6	<0.001	0.01	2.49	1.5	0.3	0.5	11.3	<0.01	0.04	3.3
ZZ64026		0.73	20.3	460	21.0	12.2	<0.001	0.02	4.76	1.6	0.5	0.6	11.0	<0.01	0.05	2.6
ZZ64027		0.40	31.5	440	36.3	9.3	<0.001	0.01	5.72	1.5	0.5	0.3	6.7	<0.01	0.10	4.3
ZZ64028		0.32	13.4	660	8.2	7.8	<0.001	0.01	0.93	0.9	<0.2	0.6	14.6	<0.01	0.03	3.4
ZZ64029		0.30	30.3	780	31.1	7.6	<0.001	0.01	2.95	1.6	0.8	0.3	18.1	<0.01	0.04	4.1
ZZ64030		0.58	22.3	720	28.7	12.6	<0.001	0.03	4.25	1.0	0.9	0.5	43.3	<0.01	0.08	0.6
ZZ64031		0.43	21.0	480	17.6	9.9	<0.001	0.01	5.41	1.3	0.7	0.4	10.5	<0.01	0.03	6.4
ZZ64032		0.32	18.3	910	12.6	13.1	<0.001	0.03	4.92	0.4	0.2	0.6	17.2	<0.01	0.05	0.4
ZZ64033		0.46	18.1	1080	19.7	13.4	<0.001	0.05	2.18	1.3	1.0	0.8	28.0	<0.01	0.06	0.4
ZZ64034		0.46	31.0	1960	22.7	6.3	<0.001	0.01	3.89	2.3	1.5	0.2	23.4	<0.01	0.07	3.5
ZZ64035		0.29	18.6	880	28.7	6.2	0.001	0.03	4.81	0.7	0.5	0.4	21.1	<0.01	0.05	2.3
ZZ64036		0.38	14.7	720	16.5	10.5	<0.001	0.04	2.05	0.5	0.6	0.5	8.9	<0.01	0.08	0.2
ZZ64037		0.26	31.7	580	33.3	7.0	<0.001	0.01	3.36	1.6	<0.2	0.3	9.2	<0.01	0.07	9.9
ZZ64038		0.43	26.0	690	23.8	7.9	<0.001	0.04	3.33	1.6	0.9	0.4	28.3	<0.01	0.04	3.9
ZZ64039		0.22	21.1	930	12.8	4.8	<0.001	0.05	3.80	0.5	<0.2	0.2	10.1	<0.01	0.04	1.8
ZZ64040		0.20	28.6	780	27.1	7.4	<0.001	0.07	4.34	1.3	0.4	0.3	50.7	<0.01	0.08	5.2

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64001		<0.005	0.05	1.65	11	<0.05	9.34	67	5.9
ZZ64002		0.010	0.07	0.93	19	0.53	4.55	78	2.4
ZZ64003		<0.005	0.04	2.42	7	0.12	6.85	99	3.1
ZZ64004		<0.005	0.05	2.11	13	0.09	6.95	89	2.3
ZZ64005		0.009	0.07	2.64	21	0.21	5.72	72	2.8
ZZ64006		0.011	0.08	1.80	25	0.31	5.47	64	2.7
ZZ64007		0.015	0.11	0.87	32	0.24	3.49	64	<0.5
ZZ64008		0.008	0.09	1.77	24	0.15	4.47	81	2.1
ZZ64009		0.014	0.09	1.15	27	0.23	6.05	91	1.7
ZZ64010		0.023	0.10	1.15	29	0.26	8.12	110	1.5
ZZ64011		0.021	0.09	2.07	32	0.26	7.38	112	2.1
ZZ64012		0.014	0.11	1.19	30	0.26	7.48	91	0.8
ZZ64013		0.008	0.07	1.14	21	0.16	2.85	65	0.6
ZZ64014		0.010	0.12	0.79	28	0.19	2.61	57	<0.5
ZZ64015		0.017	0.12	0.80	41	0.22	3.29	74	<0.5
ZZ64016		0.012	0.09	0.63	31	0.24	2.78	68	<0.5
ZZ64017		0.014	0.08	1.12	23	0.21	4.32	50	0.6
ZZ64018		0.015	0.12	0.72	40	0.27	2.36	55	<0.5
ZZ64019		0.009	0.11	1.45	24	0.17	4.99	63	0.9
ZZ64020		0.011	0.14	0.81	31	0.14	4.01	60	3.6
ZZ64021		0.012	0.11	0.71	30	0.14	3.08	34	<0.5
ZZ64022		0.016	0.11	0.75	33	0.17	3.23	48	<0.5
ZZ64023		0.013	0.15	0.83	36	0.19	4.36	71	0.8
ZZ64024		0.023	0.15	0.76	51	0.27	8.36	279	0.9
ZZ64025		0.013	0.10	0.86	31	0.20	4.15	70	<0.5
ZZ64026		0.016	0.13	0.95	36	0.37	3.87	71	<0.5
ZZ64027		0.006	0.13	1.48	16	0.18	7.19	54	0.5
ZZ64028		<0.005	0.11	1.03	15	0.09	3.33	73	0.8
ZZ64029		0.007	0.09	1.60	20	0.11	7.48	95	0.7
ZZ64030		0.011	0.13	1.43	37	0.19	6.47	85	<0.5
ZZ64031		0.006	0.09	1.63	14	0.10	4.35	59	0.7
ZZ64032		0.010	0.11	1.63	28	0.18	4.69	67	<0.5
ZZ64033		0.016	0.18	1.42	51	0.24	5.18	89	<0.5
ZZ64034		0.012	0.10	1.21	33	0.13	8.08	134	1.7
ZZ64035		0.006	0.06	1.73	18	0.09	4.98	66	0.6
ZZ64036		0.010	0.12	0.98	33	0.17	3.09	60	<0.5
ZZ64037		<0.005	0.07	1.59	16	0.07	4.60	86	2.0
ZZ64038		0.008	0.07	6.31	21	0.24	9.44	74	2.3
ZZ64039		0.006	0.03	0.84	14	0.06	3.22	55	1.0
ZZ64040		<0.005	0.05	1.75	10	0.06	11.85	68	4.8



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ64041		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64041		0.19	0.007	0.37	0.75	211	<0.2	<10	70	0.76	1.49	0.98	0.24	39.7	10.6	9
ZZ64042		0.19	0.004	0.21	0.80	164.0	<0.2	<10	70	0.62	1.02	0.75	0.21	43.2	10.4	9
ZZ64043		0.30	0.021	0.51	1.70	708	<0.2	<10	70	1.78	4.76	0.44	0.47	54.6	15.3	11
ZZ64044		0.18	0.005	0.22	1.31	134.5	<0.2	<10	110	0.66	0.85	1.40	0.26	33.7	11.1	17
ZZ64045		0.20	0.002	0.17	1.02	817	<0.2	<10	100	0.43	3.87	0.07	0.34	41.1	7.4	17
ZZ64046		0.25	0.079	0.17	0.92	960	<0.2	<10	90	0.56	2.20	0.22	0.16	82.7	12.6	14
ZZ64047		0.32	0.010	0.10	0.95	214	<0.2	<10	80	0.47	0.91	0.22	0.15	71.1	9.6	14
ZZ64048		0.27	0.013	0.16	1.12	413	<0.2	<10	90	0.52	1.77	0.32	0.19	61.8	10.9	16
ZZ64049		0.23	0.003	0.04	1.24	388	<0.2	<10	150	0.60	1.44	0.41	0.12	55.1	11.0	15
ZZ64050		0.27	0.004	0.07	1.31	340	<0.2	<10	140	0.55	1.73	0.21	0.10	69.3	10.9	16
ZZ64051		0.28	0.009	0.10	1.23	365	<0.2	<10	110	0.55	1.44	0.12	0.14	66.9	12.2	15
ZZ64052		0.22	0.011	0.16	0.94	351	<0.2	<10	90	0.41	1.57	0.17	0.24	65.3	9.3	14
ZZ64053		0.28	0.009	0.17	1.38	211	<0.2	<10	220	0.58	0.95	0.07	0.28	48.7	11.5	20
ZZ64054		0.25	0.004	0.15	1.00	224	<0.2	<10	80	0.30	0.93	0.05	0.36	37.3	8.2	19
ZZ64055		0.27	0.004	0.13	0.88	387	<0.2	<10	130	0.36	2.14	0.10	0.19	52.8	8.5	12
ZZ64056		0.17	0.003	0.04	0.52	170.5	<0.2	<10	60	0.12	0.79	0.02	0.07	37.5	2.3	8
ZZ64057		0.27	0.002	0.11	1.66	314	<0.2	<10	160	0.49	0.86	0.09	0.14	29.9	6.7	22
ZZ64058		0.21	0.004	0.06	1.02	334	<0.2	<10	80	0.33	4.08	0.04	0.14	46.4	8.7	14
ZZ64059		0.24	0.004	0.17	1.20	212	<0.2	<10	90	0.54	1.14	0.09	0.24	56.0	9.2	13
ZZ64060		0.24	0.005	0.26	2.40	531	<0.2	<10	160	0.96	0.56	0.17	0.34	41.8	10.6	24
ZZ64061		0.19	0.007	0.03	0.85	399	<0.2	<10	50	0.22	1.85	0.02	0.09	51.7	7.9	14
ZZ64062		0.17	0.004	0.02	0.92	205	<0.2	<10	40	0.28	0.73	0.03	0.06	87.9	7.4	14
ZZ64063		0.22	0.001	0.02	0.80	75.8	<0.2	<10	70	0.12	0.42	0.04	0.05	36.0	1.2	10
ZZ64064		0.25	0.006	0.09	1.17	269	<0.2	<10	90	0.37	1.47	0.05	0.16	53.8	9.2	15
ZZ64065		0.30	0.001	0.02	0.69	97.6	<0.2	<10	50	0.20	0.61	0.01	0.04	71.3	3.8	7
ZZ64066		0.20	0.068	0.17	1.00	644	<0.2	<10	130	0.52	1.76	0.09	0.39	42.7	11.8	16
ZZ64067		0.28	0.040	0.11	1.84	355	<0.2	<10	130	0.75	1.44	0.10	0.29	53.0	17.6	24
ZZ64068		0.20	0.004	0.13	0.79	318	<0.2	<10	70	0.23	1.73	0.02	0.13	52.5	4.4	10
ZZ64069		0.18	0.005	0.14	0.82	222	<0.2	<10	140	0.33	0.93	0.15	0.28	40.3	6.3	12
ZZ64070		0.34	0.010	0.11	1.23	403	<0.2	<10	130	0.57	1.29	0.18	0.19	61.2	12.4	16
ZZ64071		0.36	0.004	0.05	1.06	299	<0.2	<10	100	0.50	0.77	0.16	0.14	63.6	12.2	13
ZZ64072		0.30	0.006	0.10	1.15	267	<0.2	<10	140	0.58	0.96	0.16	0.21	68.8	11.5	15
ZZ64073		0.30	0.007	0.15	1.04	128.0	<0.2	<10	130	0.42	0.51	0.38	0.37	51.3	9.7	18
ZZ64074		0.25	0.008	0.16	0.99	204	<0.2	<10	110	0.45	0.91	0.41	0.26	42.2	7.9	16
ZZ64075		0.24	0.009	0.15	1.05	208	<0.2	<10	100	0.48	0.83	0.45	0.22	51.0	9.1	16
ZZ64076		0.23	0.008	0.16	0.78	149.5	<0.2	<10	70	0.45	0.60	0.58	0.21	38.0	8.2	11
ZZ64077		0.16	0.008	0.18	1.31	161.5	<0.2	<10	100	0.63	0.75	0.60	0.15	45.8	9.7	17
ZZ64078		0.29	0.005	0.22	1.60	163.5	<0.2	<10	110	0.72	0.99	0.43	0.21	46.2	12.5	21
ZZ64079		0.27	0.006	0.29	1.71	354	<0.2	<10	160	0.82	1.73	0.65	0.20	38.3	12.8	24
ZZ64080		0.32	0.007	0.39	0.98	728	<0.2	<10	100	0.72	5.19	0.73	0.20	41.7	11.3	11

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ64041		1.84	28.8	3.18	1.97	0.06	0.12	0.07	0.035	0.05	19.8	11.2	0.15	434	0.67	<0.01
ZZ64042		1.34	24.7	3.09	2.01	0.05	0.09	0.04	0.032	0.04	22.1	10.9	0.20	472	0.66	<0.01
ZZ64043		4.63	41.4	3.67	3.15	0.06	0.24	0.03	0.036	0.06	26.4	25.2	0.66	943	0.30	<0.01
ZZ64044		1.56	29.1	3.05	3.54	<0.05	0.05	0.04	0.034	0.05	16.5	23.0	0.35	819	0.57	<0.01
ZZ64045		1.81	20.0	3.20	4.73	0.05	<0.02	0.06	0.029	0.05	20.0	9.0	0.15	503	1.43	<0.01
ZZ64046		1.60	33.4	3.34	2.84	0.09	0.08	0.01	0.023	0.04	40.6	17.3	0.29	402	1.04	<0.01
ZZ64047		1.32	23.7	2.95	2.88	0.06	0.07	0.02	0.021	0.04	37.4	17.9	0.29	395	0.87	<0.01
ZZ64048		1.65	30.7	3.32	3.24	0.06	0.05	0.03	0.025	0.05	30.4	21.3	0.32	433	0.90	<0.01
ZZ64049		1.82	22.7	3.30	3.08	0.05	0.09	0.01	0.021	0.06	28.0	22.2	0.32	483	0.70	<0.01
ZZ64050		2.21	24.2	3.11	3.67	0.07	0.03	0.02	0.024	0.05	35.9	22.3	0.34	486	0.72	<0.01
ZZ64051		1.98	27.2	3.37	3.64	0.07	0.03	0.02	0.026	0.05	33.7	24.7	0.34	438	0.95	<0.01
ZZ64052		1.24	24.4	2.84	2.95	0.07	0.02	0.02	0.019	0.05	32.0	18.8	0.29	351	1.02	<0.01
ZZ64053		1.94	32.0	3.56	4.32	0.05	0.02	0.05	0.033	0.08	23.8	16.2	0.31	559	3.04	<0.01
ZZ64054		1.79	22.0	4.56	5.39	0.13	<0.02	0.05	0.025	0.06	17.8	11.2	0.24	492	2.10	0.01
ZZ64055		2.04	21.2	2.90	3.52	0.12	0.02	0.02	0.018	0.05	25.8	13.5	0.24	544	1.42	0.01
ZZ64056		1.58	10.3	1.31	5.50	0.08	<0.02	0.02	0.008	0.04	18.2	1.8	0.04	88	1.32	0.01
ZZ64057		2.95	16.5	3.05	6.41	0.09	0.02	0.03	0.029	0.08	14.8	14.1	0.26	307	2.06	0.01
ZZ64058		1.97	25.3	3.18	3.33	0.12	0.03	0.02	0.020	0.05	22.8	15.9	0.30	332	1.43	0.01
ZZ64059		1.60	30.0	3.07	3.08	0.13	0.08	0.03	0.022	0.05	28.2	20.9	0.31	323	1.13	0.01
ZZ64060		2.98	22.4	2.52	6.18	0.12	0.05	0.05	0.037	0.04	19.6	24.6	0.16	2150	1.69	0.01
ZZ64061		2.24	19.5	4.45	4.97	0.13	0.02	0.01	0.021	0.04	25.5	10.9	0.19	343	1.30	0.01
ZZ64062		3.40	13.4	3.39	6.21	0.16	0.02	0.02	0.016	0.08	40.7	9.9	0.26	162	1.41	0.01
ZZ64063		2.40	4.5	0.73	5.33	0.07	<0.02	0.01	0.008	0.04	17.7	2.5	0.06	57	0.73	0.01
ZZ64064		2.14	29.0	3.36	3.81	0.12	0.03	0.02	0.021	0.07	26.5	17.8	0.31	390	1.31	0.01
ZZ64065		1.95	11.5	1.76	3.55	0.11	0.02	0.01	0.012	0.04	35.0	8.8	0.06	155	1.11	0.01
ZZ64066		2.22	33.7	3.42	3.72	0.11	0.02	0.03	0.038	0.07	20.9	11.8	0.20	827	1.64	0.01
ZZ64067		2.55	29.1	3.88	4.60	0.13	0.07	0.04	0.036	0.08	25.4	29.9	0.47	582	1.83	0.01
ZZ64068		2.29	17.1	2.43	4.32	0.11	<0.02	0.02	0.017	0.06	26.6	6.2	0.11	209	1.20	0.01
ZZ64069		1.90	18.3	2.14	2.91	0.09	0.03	0.04	0.017	0.06	19.9	12.4	0.22	295	1.26	0.01
ZZ64070		1.89	26.1	3.42	3.68	0.12	0.04	0.02	0.024	0.06	30.3	25.1	0.35	527	1.12	0.01
ZZ64071		1.22	22.2	3.19	2.92	0.11	0.05	0.02	0.022	0.04	31.9	26.9	0.33	472	0.70	0.01
ZZ64072		1.36	24.2	3.07	3.32	0.13	0.05	0.02	0.021	0.05	34.3	23.9	0.35	511	0.86	0.01
ZZ64073		0.83	24.3	2.77	3.21	0.13	0.09	0.02	0.019	0.04	25.3	19.6	0.39	399	1.19	0.02
ZZ64074		0.92	20.7	2.64	2.81	0.10	0.08	0.03	0.018	0.05	21.3	16.8	0.34	290	1.08	0.02
ZZ64075		1.19	22.8	2.75	3.00	0.12	0.08	0.03	0.022	0.05	25.3	19.6	0.32	316	0.83	0.02
ZZ64076		0.94	23.6	2.70	2.12	0.10	0.09	0.02	0.021	0.04	19.4	12.6	0.25	286	0.76	0.02
ZZ64077		1.48	22.8	3.09	3.33	0.11	0.15	0.04	0.026	0.05	22.8	25.5	0.37	332	0.70	0.02
ZZ64078		1.91	26.9	3.52	4.26	0.12	0.12	0.03	0.034	0.05	22.7	30.2	0.47	492	0.66	0.02
ZZ64079		2.66	30.4	3.83	5.02	0.13	0.10	0.05	0.042	0.06	19.5	23.2	0.42	931	0.95	0.02
ZZ64080		2.26	30.7	3.65	2.29	0.12	0.15	0.04	0.032	0.06	22.0	10.9	0.21	635	0.64	0.02

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ64041		0.34	25.2	620	42.1	6.4	<0.001	0.05	4.98	2.7	0.9	0.3	48.9	<0.01	0.05	2.9
ZZ64042		0.34	24.7	510	25.6	5.3	<0.001	0.03	4.16	2.9	0.9	0.3	43.5	<0.01	0.04	3.3
ZZ64043		0.51	33.8	320	147.5	7.1	<0.001	0.01	7.87	3.9	0.8	0.6	28.0	0.01	0.02	11.8
ZZ64044		0.37	22.9	970	26.0	6.7	<0.001	0.10	3.23	2.2	0.7	0.3	73.3	<0.01	0.02	1.4
ZZ64045		0.59	16.1	720	20.7	10.7	<0.001	0.05	2.82	0.8	0.6	0.6	8.9	<0.01	0.05	0.4
ZZ64046		0.39	30.4	710	14.3	4.9	<0.001	<0.01	6.84	2.6	0.7	0.3	22.2	<0.01	0.04	12.3
ZZ64047		0.50	24.6	420	11.4	4.9	<0.001	0.01	3.56	2.3	0.5	0.3	16.3	<0.01	0.04	7.8
ZZ64048		0.47	28.1	570	17.8	7.0	<0.001	0.01	3.33	2.7	0.6	0.3	26.0	<0.01	0.03	5.2
ZZ64049		0.45	22.5	460	22.4	9.0	<0.001	0.02	3.74	1.6	0.3	0.4	25.8	<0.01	0.03	5.5
ZZ64050		0.39	22.8	390	18.8	9.3	<0.001	0.01	3.30	1.9	0.2	0.3	16.6	<0.01	0.03	5.7
ZZ64051		0.44	25.5	410	28.6	7.9	0.001	<0.01	3.70	1.9	0.3	0.4	11.1	<0.01	0.07	6.4
ZZ64052		0.48	24.6	630	16.6	6.7	0.001	<0.01	3.99	1.9	0.5	0.3	14.9	<0.01	0.03	7.4
ZZ64053		0.43	24.9	790	23.0	11.8	0.001	0.01	3.25	1.9	1.0	0.5	10.5	<0.01	0.04	2.0
ZZ64054		0.63	17.0	980	27.0	9.8	<0.001	0.05	2.72	1.6	0.9	0.5	7.6	<0.01	0.09	1.0
ZZ64055		0.29	19.0	750	15.5	10.5	<0.001	0.04	3.85	1.5	0.5	0.3	10.1	<0.01	0.05	2.7
ZZ64056		0.26	6.5	330	8.3	7.5	<0.001	0.02	1.49	0.7	0.3	0.8	4.6	<0.01	0.03	0.2
ZZ64057		0.51	16.2	850	14.3	15.8	<0.001	0.04	1.48	1.2	0.8	0.7	11.7	<0.01	0.07	0.3
ZZ64058		0.36	21.4	520	19.0	9.1	<0.001	0.02	3.42	1.8	0.6	0.3	8.7	<0.01	0.06	4.5
ZZ64059		0.33	22.9	700	18.3	7.6	<0.001	0.02	2.61	2.1	0.6	0.3	11.4	<0.01	0.05	6.5
ZZ64060		0.67	15.3	1220	11.0	9.9	<0.001	0.06	1.04	2.2	1.0	0.7	17.6	0.01	0.06	0.9
ZZ64061		0.81	16.9	430	16.3	10.0	<0.001	0.02	4.27	1.6	0.4	0.4	4.7	<0.01	0.08	6.4
ZZ64062		1.06	23.0	330	6.2	10.7	<0.001	0.01	14.95	1.6	0.4	0.7	6.4	<0.01	0.04	6.9
ZZ64063		0.43	3.6	250	9.3	10.9	<0.001	0.01	0.51	0.8	0.2	0.8	7.7	<0.01	0.03	0.2
ZZ64064		0.36	22.9	510	17.4	11.3	<0.001	0.01	3.26	1.9	0.5	0.4	7.8	<0.01	0.05	4.7
ZZ64065		0.48	7.7	200	10.4	12.0	<0.001	0.01	2.09	1.2	0.4	0.5	3.7	<0.01	0.04	5.9
ZZ64066		0.23	22.0	850	24.9	10.2	<0.001	0.03	13.55	1.2	0.8	0.4	10.2	<0.01	0.08	0.7
ZZ64067		0.85	34.6	630	23.2	12.9	<0.001	0.02	4.74	3.2	1.0	0.5	12.9	0.01	0.07	7.3
ZZ64068		0.27	11.5	740	12.5	11.8	<0.001	0.04	3.90	0.8	0.4	0.5	4.7	<0.01	0.05	0.6
ZZ64069		0.29	16.6	770	10.5	9.7	<0.001	0.05	3.34	1.3	0.5	0.3	12.4	<0.01	0.04	2.0
ZZ64070		0.36	26.3	420	26.5	8.8	<0.001	0.02	3.55	2.1	0.6	0.4	14.5	<0.01	0.05	6.1
ZZ64071		0.28	23.8	310	30.1	5.0	<0.001	0.02	3.17	1.8	0.4	0.2	12.7	<0.01	0.04	7.4
ZZ64072		0.39	25.4	460	22.2	6.6	<0.001	0.01	3.08	2.5	0.5	0.3	13.2	<0.01	0.04	7.5
ZZ64073		0.63	27.5	880	11.7	4.6	<0.001	0.02	2.36	2.6	0.6	0.3	24.9	<0.01	0.04	6.9
ZZ64074		0.56	23.4	720	14.8	5.7	<0.001	0.03	2.85	2.7	0.7	0.3	26.8	<0.01	0.04	5.2
ZZ64075		0.43	24.6	520	12.7	6.3	<0.001	0.04	3.55	2.9	0.7	0.3	25.1	<0.01	0.03	4.4
ZZ64076		0.32	22.4	400	16.8	4.3	<0.001	0.05	4.50	3.0	0.7	0.2	27.6	0.01	0.03	4.0
ZZ64077		0.37	26.3	730	19.5	7.0	<0.001	0.06	2.59	3.2	0.8	0.3	33.6	0.01	0.04	3.8
ZZ64078		0.43	30.6	690	22.6	8.5	<0.001	0.05	2.95	3.9	0.9	0.3	24.3	0.01	0.05	4.1
ZZ64079		0.51	27.6	1070	30.4	10.8	<0.001	0.07	3.19	3.8	1.0	0.5	34.8	0.01	0.06	2.3
ZZ64080		0.31	24.3	830	27.2	7.2	<0.001	0.06	5.08	3.3	1.0	0.3	37.4	0.01	0.08	4.1

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64041		0.005	0.05	2.04	11	0.08	17.45	84	4.1
ZZ64042		0.007	0.05	1.27	14	0.10	13.35	68	2.8
ZZ64043		<0.005	0.08	1.50	10	0.07	18.75	186	9.5
ZZ64044		0.008	0.08	2.13	20	0.08	16.65	91	2.0
ZZ64045		0.018	0.10	1.11	37	0.20	3.63	58	<0.5
ZZ64046		0.016	0.05	1.74	20	0.28	8.80	69	4.8
ZZ64047		0.015	0.05	1.18	21	0.27	7.37	60	2.2
ZZ64048		0.014	0.07	1.83	23	0.23	11.75	74	1.6
ZZ64049		0.007	0.10	0.92	20	0.23	4.09	66	2.2
ZZ64050		0.006	0.12	1.18	20	0.14	5.73	63	1.2
ZZ64051		0.008	0.09	1.28	21	0.17	5.56	76	1.1
ZZ64052		0.015	0.07	1.30	20	0.24	5.96	75	1.2
ZZ64053		0.009	0.18	1.71	45	0.19	8.44	108	<0.5
ZZ64054		0.027	0.13	1.12	44	0.19	3.20	64	<0.5
ZZ64055		0.012	0.09	1.24	25	0.26	4.72	62	<0.5
ZZ64056		0.018	0.13	0.55	43	0.19	2.26	27	<0.5
ZZ64057		0.016	0.22	1.18	51	0.22	3.78	62	<0.5
ZZ64058		0.010	0.11	1.08	24	0.14	4.22	68	0.6
ZZ64059		0.009	0.10	1.21	19	0.12	6.59	70	2.1
ZZ64060		0.021	0.24	8.96	47	0.24	10.85	75	0.6
ZZ64061		0.025	0.10	0.92	30	0.16	3.38	51	0.6
ZZ64062		0.038	0.15	0.86	49	0.66	5.88	56	<0.5
ZZ64063		0.026	0.16	0.62	35	0.19	2.21	16	<0.5
ZZ64064		0.009	0.12	1.05	26	0.14	4.24	75	0.7
ZZ64065		0.011	0.12	0.53	26	0.13	2.62	32	0.5
ZZ64066		0.014	0.11	2.04	29	0.28	6.86	80	<0.5
ZZ64067		0.026	0.15	1.64	39	0.51	7.02	103	1.7
ZZ64068		0.011	0.13	1.04	24	0.17	3.13	39	<0.5
ZZ64069		0.009	0.09	1.01	21	0.16	4.07	63	0.5
ZZ64070		0.010	0.09	1.42	23	0.31	4.34	87	0.9
ZZ64071		0.010	0.06	1.58	16	0.12	4.00	74	1.6
ZZ64072		0.014	0.07	1.31	22	0.17	6.11	74	1.4
ZZ64073		0.037	0.06	1.45	32	0.34	8.10	80	2.8
ZZ64074		0.031	0.07	1.55	29	0.21	7.93	75	2.2
ZZ64075		0.018	0.07	1.93	24	0.19	9.45	70	1.9
ZZ64076		0.015	0.06	1.07	18	0.16	11.95	65	2.6
ZZ64077		0.012	0.08	1.96	22	0.14	12.00	80	3.7
ZZ64078		0.014	0.11	2.25	27	0.16	14.70	95	2.9
ZZ64079		0.021	0.15	2.70	38	0.18	17.65	103	2.1
ZZ64080		0.009	0.07	2.54	16	0.16	14.65	71	3.8



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64081		0.28	0.006	0.23	1.03	844	<0.2	<10	90	0.68	6.51	0.25	0.14	53.7	15.1	12
ZZ64082		0.18	0.001	0.14	0.64	255	<0.2	<10	70	0.45	2.03	0.11	0.25	57.8	12.7	7
ZZ64083		0.32	0.020	0.18	1.16	257	<0.2	<10	90	0.65	0.79	0.57	0.17	46.3	11.9	12
ZZ64084		0.20	0.015	0.18	1.38	248	<0.2	<10	100	0.68	1.00	0.94	0.18	35.7	11.3	13
ZZ64085		0.23	0.006	0.24	0.89	113.5	<0.2	<10	70	0.62	0.58	0.57	0.18	42.1	9.9	11
ZZ64086		0.29	0.008	0.20	1.06	96.3	<0.2	<10	80	0.56	0.57	0.43	0.33	48.2	11.3	13
ZZ64087		0.22	0.011	0.18	1.25	91.7	<0.2	<10	90	0.64	0.60	0.58	0.19	47.2	10.7	16
ZZ64088		0.25	0.018	0.37	0.80	289	<0.2	<10	100	0.65	1.20	1.04	0.37	33.7	9.2	10
ZZ64089		0.20	0.018	0.36	0.87	260	<0.2	<10	100	0.60	1.21	1.17	0.30	23.2	7.6	8
ZZ64090		0.35	0.019	0.19	0.94	230	<0.2	<10	110	0.46	0.66	0.32	0.25	42.8	7.8	14
ZZ64091		0.33	0.014	0.16	1.09	227	<0.2	<10	150	0.60	0.94	0.43	0.21	41.7	7.8	14
ZZ64092		0.26	0.005	0.08	1.20	236	<0.2	<10	150	0.50	1.12	0.36	0.15	40.5	9.4	17
ZZ64093		0.26	0.006	0.19	1.10	303	<0.2	<10	100	0.50	1.13	0.19	0.14	57.5	11.8	14
ZZ64094		0.30	0.010	0.05	1.22	289	<0.2	<10	120	0.57	0.97	0.09	0.19	64.1	13.9	14
ZZ64095		0.21	0.004	0.07	0.98	286	<0.2	<10	190	0.32	1.11	0.40	0.17	32.6	6.3	16
ZZ64096		0.24	0.037	0.06	1.03	287	<0.2	<10	70	0.42	1.36	0.07	0.21	52.1	9.6	13
ZZ64097		0.24	0.010	0.06	1.21	224	<0.2	<10	70	0.30	1.33	0.04	0.18	43.6	7.8	17
ZZ64098		0.30	0.022	0.13	1.28	460	<0.2	<10	100	0.46	3.23	0.08	0.33	42.0	13.4	19
ZZ64099		0.23	0.009	0.28	1.08	226	<0.2	<10	150	0.39	1.34	0.14	0.15	35.5	5.1	12
ZZ64100		0.16	0.002	0.08	0.69	215	<0.2	<10	50	0.16	2.53	0.15	0.11	31.1	8.0	12
ZZ64101		0.19	0.005	0.05	0.74	467	<0.2	<10	40	0.21	1.93	0.02	0.10	38.8	8.8	14
ZZ64102		0.23	0.003	0.29	0.98	325	<0.2	<10	70	0.14	0.93	0.06	0.06	25.3	2.4	16
ZZ64103		0.26	0.004	0.12	1.15	118.0	<0.2	<10	40	0.65	0.58	0.35	0.12	65.0	13.4	14
ZZ64104		0.19	0.009	0.14	1.36	420	<0.2	<10	80	0.68	1.16	0.13	0.13	89.3	21.5	16
ZZ64105		0.22	0.002	0.22	1.56	631	<0.2	<10	70	1.00	3.44	0.16	0.26	116.0	56.7	16
ZZ64106		0.20	0.011	0.18	1.67	201	<0.2	<10	80	0.81	1.29	0.20	0.14	104.0	27.5	19
ZZ64107		0.23	0.004	0.11	1.46	223	<0.2	<10	60	0.64	1.29	0.23	0.11	92.5	24.1	16
ZZ64108		0.23	<0.001	0.08	1.24	520	<0.2	<10	80	0.40	0.86	0.13	0.14	68.0	12.8	16
ZZ64109		0.21	0.005	0.11	0.83	100.5	<0.2	<10	70	0.40	0.56	0.19	0.08	48.5	8.2	10
ZZ64110		0.28	0.009	0.17	1.40	189.5	<0.2	<10	40	0.53	0.69	0.36	0.04	77.2	15.4	17
ZZ64111		0.22	0.006	0.24	1.37	78.2	<0.2	<10	40	0.80	0.59	0.31	0.05	92.1	16.4	16
ZZ64112		0.36	0.007	0.21	1.38	227	<0.2	<10	50	0.58	0.50	0.13	0.08	48.3	17.2	15
ZZ64113		0.31	0.002	0.13	1.56	101.0	<0.2	<10	80	0.57	0.48	0.12	0.14	36.4	16.6	17
ZZ64114		0.26	0.003	0.07	1.41	170.0	<0.2	<10	70	0.47	0.42	0.06	0.19	24.6	13.8	17
ZZ64115		0.25	<0.001	0.04	1.16	81.4	<0.2	<10	50	0.42	0.43	0.05	0.14	19.65	13.7	12
ZZ64116		0.26	0.007	0.09	1.33	156.5	<0.2	<10	60	0.45	0.42	0.05	0.15	25.0	14.2	16
ZZ64117		0.29	0.006	0.09	1.82	52.7	<0.2	<10	60	0.53	0.48	0.12	0.10	50.6	19.4	21
ZZ64118		0.30	0.004	0.14	1.64	215	<0.2	<10	70	0.54	0.45	0.08	0.19	53.3	15.5	22
ZZ64119		0.34	0.005	0.10	2.07	65.5	<0.2	<10	50	0.64	0.50	0.16	0.09	62.9	26.4	24
ZZ64120		0.26	0.007	0.08	1.67	161.5	<0.2	<10	60	0.52	0.51	0.09	0.17	52.0	19.8	21



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ64081		3.29	39.6	4.44	2.37	0.07	0.04	0.04	0.028	0.06	29.4	11.0	0.21	824	0.77	0.01
ZZ64082		2.63	29.1	3.90	2.05	0.06	<0.02	0.02	0.020	0.05	32.8	4.4	0.08	807	0.78	0.01
ZZ64083		1.79	31.9	3.35	2.75	0.08	0.10	0.03	0.027	0.04	26.1	21.4	0.32	453	0.63	0.01
ZZ64084		2.02	28.9	3.48	3.19	0.05	0.14	0.04	0.030	0.05	20.0	19.5	0.32	503	0.65	0.02
ZZ64085		1.11	27.3	3.42	2.08	0.06	0.11	0.03	0.030	0.04	23.5	13.7	0.23	422	0.60	0.01
ZZ64086		0.97	28.6	3.11	2.56	0.06	0.09	0.02	0.024	0.04	25.4	20.1	0.30	418	0.53	0.01
ZZ64087		1.32	27.2	2.95	3.17	0.05	0.10	0.04	0.027	0.04	26.3	19.8	0.33	248	0.49	0.01
ZZ64088		1.31	25.8	3.04	1.98	0.06	0.10	0.07	0.028	0.04	19.0	8.6	0.19	519	0.58	0.01
ZZ64089		1.35	21.7	2.71	1.93	<0.05	0.10	0.04	0.023	0.04	12.4	6.9	0.15	515	0.47	0.01
ZZ64090		0.91	20.3	2.69	2.50	0.05	0.07	0.03	0.017	0.04	22.5	14.1	0.27	310	0.79	0.01
ZZ64091		1.05	22.0	2.84	2.83	0.05	0.07	0.03	0.019	0.04	22.2	15.2	0.28	339	0.74	0.01
ZZ64092		1.28	19.8	2.81	3.53	<0.05	0.07	0.03	0.020	0.04	22.2	18.6	0.32	407	0.92	0.01
ZZ64093		1.26	24.4	3.33	3.15	0.05	0.04	<0.01	0.018	0.04	30.7	25.5	0.35	443	0.80	<0.01
ZZ64094		1.57	28.6	3.49	3.41	0.09	0.05	0.01	0.027	0.05	33.4	29.7	0.34	537	0.91	<0.01
ZZ64095		2.02	18.0	2.70	4.37	0.05	0.02	0.04	0.025	0.06	17.2	11.5	0.23	282	1.69	0.01
ZZ64096		1.80	23.3	2.91	3.29	0.07	0.02	0.02	0.024	0.04	26.9	20.9	0.29	372	1.08	<0.01
ZZ64097		2.28	20.3	2.82	4.46	0.06	<0.02	0.03	0.022	0.05	22.6	15.1	0.26	314	1.28	<0.01
ZZ64098		1.89	39.3	3.87	4.02	0.08	0.02	0.03	0.033	0.07	21.8	16.3	0.31	717	2.31	<0.01
ZZ64099		2.13	25.5	2.48	3.90	0.06	0.02	0.05	0.021	0.06	19.2	12.3	0.19	156	1.33	<0.01
ZZ64100		1.68	20.7	3.65	4.17	0.07	<0.02	0.03	0.018	0.05	16.1	7.3	0.16	566	1.37	<0.01
ZZ64101		2.56	22.3	3.45	3.35	0.07	<0.02	0.02	0.019	0.06	20.3	10.0	0.20	423	1.17	0.01
ZZ64102		3.07	9.8	1.52	6.09	<0.05	<0.02	0.04	0.015	0.04	13.3	4.9	0.13	95	1.67	<0.01
ZZ64103		1.69	38.0	3.44	3.19	0.08	0.13	0.02	0.022	0.03	34.9	32.6	0.38	341	0.62	<0.01
ZZ64104		3.97	39.2	3.72	4.82	0.10	0.05	0.03	0.026	0.06	48.1	31.4	0.37	1220	1.03	<0.01
ZZ64105		4.72	94.7	4.59	4.49	0.15	0.14	0.04	0.036	0.05	61.9	42.9	0.52	1910	0.75	<0.01
ZZ64106		3.32	47.8	4.11	4.61	0.12	0.11	0.03	0.025	0.05	54.5	40.1	0.54	1140	0.66	0.01
ZZ64107		2.59	49.9	4.07	4.13	0.11	0.15	0.03	0.025	0.05	49.2	35.9	0.47	1020	0.62	0.01
ZZ64108		2.94	32.7	3.66	4.47	0.09	0.07	0.02	0.018	0.04	37.2	28.3	0.39	496	0.55	<0.01
ZZ64109		3.70	24.3	3.07	2.61	0.07	0.03	0.02	0.019	0.05	26.8	10.2	0.15	466	0.57	0.01
ZZ64110		1.68	44.6	3.98	3.81	0.10	0.18	0.04	0.024	0.03	41.3	45.4	0.53	255	0.53	<0.01
ZZ64111		4.51	52.2	4.09	3.74	0.10	0.19	0.02	0.028	0.05	47.5	43.6	0.47	469	0.57	0.01
ZZ64112		2.21	39.6	4.13	3.77	0.09	0.07	0.02	0.023	0.04	24.9	36.0	0.46	684	0.55	<0.01
ZZ64113		2.31	44.8	3.83	4.27	0.08	0.06	0.02	0.021	0.04	18.8	38.6	0.53	593	0.74	<0.01
ZZ64114		2.44	38.0	3.85	3.89	0.07	0.06	0.02	0.022	0.04	12.9	26.0	0.42	529	0.90	0.01
ZZ64115		3.31	34.5	3.52	2.99	0.06	0.05	0.03	0.018	0.04	10.4	14.8	0.27	648	0.70	0.01
ZZ64116		2.31	36.7	3.65	3.58	0.07	0.05	0.02	0.019	0.03	13.0	26.4	0.41	449	0.85	0.01
ZZ64117		2.40	44.8	4.03	5.20	0.09	0.04	0.02	0.020	0.03	26.8	51.0	0.67	607	0.61	<0.01
ZZ64118		2.76	39.1	3.86	5.05	0.09	0.04	0.03	0.023	0.04	27.4	39.2	0.55	580	1.00	0.01
ZZ64119		4.63	52.3	4.45	6.06	0.13	0.08	0.02	0.023	0.04	31.3	59.8	0.76	696	0.49	<0.01
ZZ64120		2.65	44.2	4.06	4.93	0.09	0.04	0.02	0.024	0.04	26.5	46.1	0.57	632	0.83	<0.01

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ64081		0.21	29.2	620	27.1	7.2	<0.001	0.04	5.47	2.6	0.7	0.3	15.1	<0.01	0.07	4.7
ZZ64082		0.16	23.4	870	25.4	6.0	<0.001	0.05	6.15	1.1	<0.2	0.3	10.5	<0.01	0.05	1.7
ZZ64083		0.24	29.9	710	24.1	4.7	<0.001	0.05	3.59	2.5	0.5	0.2	49.3	<0.01	0.05	4.7
ZZ64084		0.38	26.9	780	25.0	5.8	0.001	0.08	3.45	2.6	0.5	0.3	56.4	<0.01	0.05	3.3
ZZ64085		0.22	24.1	590	28.7	4.0	<0.001	0.05	4.46	3.4	1.1	0.2	34.0	<0.01	0.04	3.7
ZZ64086		0.28	26.8	610	25.1	4.1	0.001	0.05	4.25	3.2	1.0	0.2	26.8	<0.01	0.03	4.9
ZZ64087		0.42	25.5	540	20.9	6.4	<0.001	0.06	4.85	3.3	0.6	0.3	32.9	<0.01	0.01	4.6
ZZ64088		0.30	21.2	800	43.9	5.1	<0.001	0.08	5.94	2.5	0.6	0.2	54.4	<0.01	0.04	2.2
ZZ64089		0.35	16.1	720	42.2	5.4	<0.001	0.08	5.82	1.9	0.7	0.2	58.0	<0.01	0.02	1.6
ZZ64090		0.42	21.2	580	17.3	5.9	<0.001	0.02	2.90	2.5	0.5	0.3	20.0	<0.01	0.01	4.9
ZZ64091		0.34	21.3	690	19.8	6.9	<0.001	0.05	3.16	2.2	0.5	0.3	25.5	<0.01	0.03	2.8
ZZ64092		0.45	20.4	640	19.7	7.8	0.001	0.04	2.63	1.9	0.7	0.3	26.0	<0.01	0.03	3.1
ZZ64093		0.30	24.4	300	32.7	5.2	<0.001	0.02	3.34	1.6	0.6	0.3	13.2	<0.01	0.04	7.0
ZZ64094		0.33	27.1	300	29.3	7.4	0.001	<0.01	4.38	2.0	0.4	0.3	9.8	<0.01	0.04	8.2
ZZ64095		0.44	15.0	850	19.0	14.0	0.001	0.04	3.23	1.0	0.6	0.5	30.5	<0.01	0.04	0.9
ZZ64096		0.23	20.8	690	19.5	7.7	0.001	<0.01	5.23	1.1	0.4	0.3	10.3	<0.01	0.03	1.8
ZZ64097		0.29	16.6	630	16.4	10.9	0.001	0.01	3.56	0.7	0.6	0.5	7.8	<0.01	0.05	0.6
ZZ64098		0.32	25.5	1010	53.9	11.8	0.001	0.01	20.9	1.0	0.8	0.5	13.4	<0.01	0.07	0.8
ZZ64099		0.33	15.6	770	17.4	12.8	0.001	0.02	4.61	0.9	0.6	0.4	14.8	<0.01	0.05	0.8
ZZ64100		0.53	14.5	1040	18.0	7.5	0.001	0.02	4.67	0.8	0.6	0.4	14.6	<0.01	0.06	0.7
ZZ64101		0.28	17.9	770	19.7	12.4	0.001	0.02	6.76	0.7	0.4	0.3	5.0	<0.01	0.05	1.0
ZZ64102		1.08	6.9	250	16.3	11.1	0.001	0.01	1.18	1.4	0.5	0.8	9.9	<0.01	0.05	0.9
ZZ64103		0.10	32.3	310	34.9	3.0	0.001	0.02	4.66	2.3	0.4	0.2	23.2	<0.01	0.05	8.9
ZZ64104		0.24	25.3	670	38.1	7.4	0.001	0.02	5.59	1.3	0.4	0.4	15.3	<0.01	0.07	4.3
ZZ64105		0.06	52.2	640	65.4	3.9	0.001	<0.01	10.70	2.5	0.4	0.2	29.1	<0.01	0.08	21.1
ZZ64106		0.09	35.7	570	43.6	5.1	0.001	0.02	4.69	1.8	0.3	0.3	21.6	<0.01	0.04	8.9
ZZ64107		0.09	33.6	630	41.8	3.6	0.001	0.03	4.91	1.9	0.4	0.2	24.7	<0.01	0.04	9.0
ZZ64108		0.13	23.5	920	47.6	4.5	0.001	0.05	6.34	1.0	0.3	0.3	17.0	<0.01	0.05	3.6
ZZ64109		0.17	16.4	770	20.2	5.6	0.001	0.03	3.06	0.9	0.4	0.3	15.3	<0.01	0.05	1.2
ZZ64110		0.05	35.4	390	39.8	2.5	0.001	0.01	2.02	2.8	0.5	<0.2	20.0	<0.01	0.04	12.8
ZZ64111		0.06	32.3	580	37.7	4.3	0.001	0.02	2.84	2.4	0.5	0.2	31.4	<0.01	0.05	11.0
ZZ64112		0.07	33.5	400	50.1	3.3	0.001	<0.01	2.71	2.5	0.3	0.3	18.0	<0.01	0.08	12.3
ZZ64113		0.15	34.5	440	40.6	4.3	0.001	<0.01	2.32	2.2	0.4	0.3	17.7	<0.01	0.09	8.6
ZZ64114		0.27	32.0	430	35.5	5.3	0.001	0.01	2.26	1.8	0.4	0.3	10.4	<0.01	0.08	4.2
ZZ64115		0.16	25.0	580	32.9	4.9	0.001	0.02	2.35	1.3	0.4	0.2	10.0	<0.01	0.09	2.2
ZZ64116		0.18	31.9	430	33.6	4.5	0.001	0.01	3.07	1.7	0.4	0.2	9.8	<0.01	0.08	4.1
ZZ64117		0.12	37.2	370	38.6	3.7	0.001	<0.01	2.62	2.0	0.3	0.2	14.5	<0.01	0.06	10.0
ZZ64118		0.31	32.1	700	43.4	6.4	0.001	0.01	2.77	1.6	0.4	0.3	12.3	<0.01	0.05	3.5
ZZ64119		0.08	40.3	480	43.0	4.0	0.001	<0.01	2.66	2.7	0.3	0.2	20.2	<0.01	0.04	14.3
ZZ64120		0.18	36.0	420	59.3	4.7	0.001	<0.01	3.29	2.0	0.4	0.2	12.7	<0.01	0.05	7.3



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64081		0.007	0.07	2.09	16	0.27	11.40	71	1.4
ZZ64082		0.006	0.06	1.44	12	0.09	4.94	62	0.6
ZZ64083		0.008	0.05	1.56	15	0.09	13.30	76	3.2
ZZ64084		0.008	0.07	2.27	18	0.09	14.30	85	4.1
ZZ64085		0.008	0.05	2.40	14	0.12	17.60	78	3.3
ZZ64086		0.009	0.05	2.12	17	0.27	14.55	77	3.4
ZZ64087		0.011	0.07	2.00	21	0.12	13.30	74	3.0
ZZ64088		0.009	0.06	1.42	14	0.34	17.40	83	3.0
ZZ64089		0.009	0.05	1.97	13	0.08	14.25	76	2.7
ZZ64090		0.015	0.07	1.60	22	0.34	9.06	66	1.9
ZZ64091		0.010	0.09	2.02	22	0.23	10.10	63	1.7
ZZ64092		0.013	0.08	1.23	27	0.31	5.18	63	1.7
ZZ64093		0.008	0.07	0.98	18	0.12	3.76	75	1.3
ZZ64094		0.008	0.07	1.08	19	0.15	5.22	85	1.5
ZZ64095		0.011	0.13	0.84	37	0.19	3.66	69	<0.5
ZZ64096		0.008	0.07	1.36	19	0.17	4.85	68	0.5
ZZ64097		0.010	0.11	0.96	30	0.18	3.64	58	<0.5
ZZ64098		0.010	0.13	1.44	33	0.41	5.19	105	<0.5
ZZ64099		0.006	0.12	1.40	25	0.19	5.89	52	<0.5
ZZ64100		0.011	0.09	0.85	27	0.15	3.22	44	<0.5
ZZ64101		0.007	0.08	0.92	23	0.89	3.35	61	<0.5
ZZ64102		0.025	0.17	0.71	52	0.40	2.54	26	<0.5
ZZ64103		<0.005	0.02	1.38	10	0.21	7.92	93	5.1
ZZ64104		0.007	0.07	1.54	21	0.12	5.24	74	1.2
ZZ64105		<0.005	0.07	3.32	10	<0.05	13.50	118	8.7
ZZ64106		<0.005	0.05	1.77	13	<0.05	7.26	107	3.1
ZZ64107		<0.005	0.03	1.92	11	<0.05	7.54	90	4.7
ZZ64108		<0.005	0.04	1.15	14	0.08	3.97	83	1.8
ZZ64109		0.006	0.05	1.10	16	0.15	5.71	55	0.5
ZZ64110		<0.005	0.03	1.42	9	0.05	11.25	93	7.5
ZZ64111		<0.005	0.04	2.37	10	0.06	10.45	86	6.0
ZZ64112		<0.005	0.03	1.84	10	0.05	7.96	81	3.1
ZZ64113		<0.005	0.04	2.03	15	0.10	7.18	99	1.7
ZZ64114		0.007	0.05	1.45	19	0.10	4.33	100	1.6
ZZ64115		<0.005	0.05	1.43	13	0.07	3.98	84	1.3
ZZ64116		0.005	0.04	1.35	15	0.08	4.91	91	1.2
ZZ64117		<0.005	0.04	1.94	14	0.05	6.21	103	1.5
ZZ64118		0.011	0.05	1.71	24	0.15	5.47	99	1.0
ZZ64119		<0.005	0.04	2.52	15	0.06	8.37	117	4.2
ZZ64120		0.005	0.03	1.92	17	0.07	6.01	113	1.2



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CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65751		0.22	0.009	0.11	0.65	620	<0.2	<10	60	0.40	0.62	0.04	0.15	35.4	6.7	9
ZZ65752		0.21	0.003	0.04	0.92	90.6	<0.2	<10	60	0.17	0.72	0.03	0.10	43.0	5.0	13
ZZ65753		0.33	0.010	0.06	1.77	727	<0.2	<10	100	0.30	0.65	0.06	0.16	24.7	4.6	22
ZZ65754		0.22	0.012	0.04	0.74	1270	<0.2	<10	50	0.15	2.94	0.02	0.08	42.7	5.1	13
ZZ65755		0.24	0.010	0.07	0.97	1475	<0.2	<10	130	0.37	9.33	0.10	0.22	33.1	11.0	13
ZZ65756		0.16	0.002	0.03	0.47	162.0	<0.2	<10	60	0.09	0.97	0.05	0.12	36.1	3.6	10
ZZ65757		0.27	0.008	0.03	1.40	502	<0.2	<10	60	0.57	2.79	0.05	0.14	106.5	18.0	18
ZZ65758		0.24	0.007	0.06	1.39	248	<0.2	<10	130	0.52	1.77	0.07	0.19	75.6	17.3	18
ZZ65759		0.23	0.003	0.07	0.98	369	<0.2	<10	70	0.28	1.68	0.02	0.16	66.6	7.0	13
ZZ65760		0.19	0.013	0.21	0.83	599	<0.2	<10	40	0.45	2.16	0.07	0.10	103.0	10.3	10
ZZ65761		0.14	<0.001	0.13	0.45	247	<0.2	<10	60	0.12	0.90	0.04	0.20	43.6	3.5	8
ZZ65762		0.20	0.004	0.08	0.89	451	<0.2	<10	110	0.51	1.10	0.10	0.20	36.8	12.4	14
ZZ65763		0.27	0.003	0.07	0.54	307	<0.2	<10	60	0.21	1.08	0.02	0.25	53.0	9.1	7
ZZ65764		Not Recvd														
ZZ65765		0.14	0.002	0.24	0.35	58.0	<0.2	<10	20	0.09	0.30	0.08	0.34	14.25	2.4	7
ZZ65766		0.25	0.003	0.24	1.15	236	<0.2	<10	60	0.45	0.92	0.04	0.23	48.4	16.9	14
ZZ65767		0.25	0.005	0.14	1.60	380	<0.2	<10	90	0.74	2.21	0.07	0.18	90.3	19.8	19
ZZ65768		0.29	0.006	0.16	1.34	162.0	<0.2	<10	90	0.65	1.43	0.69	0.21	35.6	11.8	15
ZZ65769		0.26	0.003	0.17	1.39	115.5	<0.2	<10	60	0.64	1.00	0.55	0.16	58.9	17.4	15
ZZ65770		0.34	0.004	0.26	1.49	226	<0.2	<10	70	0.75	2.00	0.23	0.13	101.5	17.4	17
ZZ65771		0.29	0.002	0.14	1.56	181.5	<0.2	<10	50	0.65	1.14	0.15	0.06	106.5	20.2	17
ZZ65772		0.23	0.006	0.26	1.41	130.0	<0.2	<10	160	0.74	0.46	0.17	1.10	39.3	10.3	22
ZZ65773		0.19	0.035	0.99	0.94	777	<0.2	<10	80	0.91	1.32	0.63	1.18	35.5	11.1	11
ZZ65774		0.17	0.030	0.57	0.61	449	<0.2	<10	70	0.77	0.81	1.35	0.67	37.2	8.3	9
ZZ65775		0.19	0.006	0.24	0.90	75.7	<0.2	<10	90	0.50	0.64	0.61	1.03	60.7	13.6	13
ZZ65776		0.21	0.003	0.16	1.17	51.4	<0.2	<10	100	0.49	0.32	0.88	0.20	40.3	11.4	15
ZZ65777		0.17	0.003	0.26	2.26	138.0	<0.2	<10	170	0.95	2.24	0.94	0.38	34.0	13.0	27
ZZ65778		0.12	0.011	0.42	1.23	183.5	<0.2	<10	110	0.60	1.66	1.20	0.27	27.5	9.6	14
ZZ65779		0.16	0.004	0.14	1.78	149.0	<0.2	<10	210	0.82	0.87	0.42	0.29	36.5	15.6	30
ZZ65780		0.17	0.004	0.07	1.24	385	<0.2	<10	110	0.26	1.93	0.09	0.16	38.4	5.7	18
ZZ65781		0.23	0.006	0.11	1.36	178.5	<0.2	<10	130	0.55	0.79	0.06	0.30	41.2	11.1	19
ZZ65782		0.20	0.005	0.20	0.99	250	<0.2	<10	110	0.15	0.48	0.05	0.16	23.6	5.2	18
ZZ65783		0.20	0.042	0.63	1.21	1070	<0.2	<10	140	0.90	7.07	0.93	0.20	35.8	9.1	15
ZZ65784		0.23	0.005	0.10	1.40	370	<0.2	<10	220	0.57	1.28	0.51	0.21	27.4	7.3	21
ZZ65785		0.15	0.013	0.67	1.75	689	<0.2	<10	110	1.63	0.58	0.71	0.31	20.0	8.7	15
ZZ65786		0.16	0.007	0.24	1.29	131.0	<0.2	<10	250	1.08	0.92	0.34	0.39	30.5	6.5	15
ZZ65787		0.16	0.005	0.07	0.61	60.3	<0.2	<10	50	0.15	0.58	0.04	0.07	22.1	2.5	11
ZZ65788		0.19	0.005	0.13	0.93	574	<0.2	<10	60	0.35	2.72	0.04	0.25	30.2	5.9	18
ZZ65789		0.13	0.017	0.48	1.50	519	<0.2	<10	180	1.29	1.75	0.54	0.24	24.2	6.4	22
ZZ65790		0.14	0.019	0.71	1.44	983	<0.2	<10	180	0.94	1.90	0.63	0.66	26.1	8.9	22



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Project: Lance

CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte Units LOR	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65751		2.84	13.6	2.99	3.61	0.07	<0.02	0.03	0.017	0.04	18.4	2.9	0.09	412	1.30	<0.01
ZZ65752		1.89	14.8	2.86	5.03	0.07	<0.02	0.02	0.018	0.05	22.5	8.8	0.16	196	1.45	<0.01
ZZ65753		2.33	13.8	2.87	6.75	0.06	0.02	0.05	0.031	0.04	13.3	15.1	0.25	172	1.62	<0.01
ZZ65754		2.11	12.9	3.65	4.71	0.08	0.02	0.05	0.019	0.05	22.4	9.5	0.14	220	1.71	<0.01
ZZ65755		2.63	19.2	3.06	3.50	0.06	0.02	0.03	0.025	0.06	17.0	15.1	0.20	591	1.11	<0.01
ZZ65756		1.65	15.0	2.15	4.52	0.06	<0.02	0.04	0.015	0.05	19.0	1.8	0.05	164	1.71	0.01
ZZ65757		4.19	41.0	4.77	3.73	0.13	0.06	0.01	0.023	0.05	57.7	29.0	0.52	521	0.49	<0.01
ZZ65758		2.65	43.8	3.89	4.18	0.11	0.04	0.03	0.024	0.05	39.9	25.9	0.42	552	1.75	<0.01
ZZ65759		2.02	23.9	3.19	4.21	0.09	<0.02	0.02	0.020	0.05	34.8	12.3	0.20	284	1.34	<0.01
ZZ65760		2.28	27.5	3.63	2.63	0.14	0.04	0.01	0.020	0.05	54.3	19.6	0.25	350	0.53	<0.01
ZZ65761		1.48	12.4	1.68	3.66	0.06	<0.02	0.01	0.010	0.05	23.3	2.7	0.05	205	1.04	0.01
ZZ65762		2.00	23.1	3.94	3.53	0.11	0.02	0.01	0.026	0.05	18.4	13.1	0.15	818	1.17	0.01
ZZ65763		1.64	18.9	4.10	2.23	0.10	0.03	0.01	0.027	0.04	28.1	5.5	0.08	771	0.44	0.01
ZZ65764																
ZZ65765		1.31	9.4	1.20	1.69	<0.05	<0.02	0.03	0.009	0.03	7.4	2.8	0.06	104	0.65	0.01
ZZ65766		2.47	34.9	3.46	3.69	0.12	0.03	0.01	0.019	0.04	24.5	21.5	0.28	1040	0.92	0.01
ZZ65767		2.43	37.7	4.13	4.64	0.11	0.04	<0.01	0.024	0.05	44.8	37.4	0.50	601	0.88	<0.01
ZZ65768		1.29	28.1	3.29	3.19	0.10	0.11	0.01	0.022	0.04	18.9	28.9	0.42	588	0.46	0.01
ZZ65769		1.09	40.8	3.74	3.34	0.11	0.16	<0.01	0.021	0.05	31.3	37.0	0.51	638	0.55	0.01
ZZ65770		2.25	46.6	3.97	4.10	0.17	0.08	<0.01	0.024	0.04	53.8	43.7	0.47	525	0.61	<0.01
ZZ65771		2.92	44.8	3.83	4.26	0.16	0.07	<0.01	0.020	0.04	59.5	46.1	0.51	622	0.42	<0.01
ZZ65772		1.33	15.2	3.56	3.67	0.10	0.03	0.07	0.036	0.05	15.0	14.3	0.30	613	1.02	0.01
ZZ65773		1.41	32.1	3.40	2.37	0.10	0.12	0.05	0.055	0.04	18.6	8.8	0.19	856	0.88	0.01
ZZ65774		0.97	21.8	3.48	1.64	0.09	0.12	0.06	0.043	0.04	17.9	5.0	0.11	618	0.57	0.01
ZZ65775		2.77	27.8	4.01	2.81	0.08	0.06	0.05	0.046	0.06	35.0	12.3	0.17	1080	0.84	0.01
ZZ65776		1.49	22.4	3.22	3.94	0.05	0.06	0.07	0.026	0.06	19.1	17.1	0.37	748	1.01	0.01
ZZ65777		3.11	59.2	4.37	6.18	0.07	0.08	0.03	0.050	0.07	17.8	31.8	0.58	682	1.60	0.10
ZZ65778		3.09	49.3	2.77	3.48	0.06	0.13	0.08	0.035	0.08	20.8	11.8	0.23	659	1.18	0.02
ZZ65779		2.31	36.6	3.54	6.00	<0.05	0.03	0.04	0.043	0.08	15.5	22.2	0.50	616	2.06	0.01
ZZ65780		3.51	22.7	2.77	5.37	<0.05	<0.02	0.03	0.032	0.06	19.9	11.2	0.21	305	1.18	0.01
ZZ65781		1.17	23.0	3.25	3.89	0.06	0.05	0.05	0.025	0.06	20.9	22.0	0.29	488	1.58	0.01
ZZ65782		1.31	21.5	3.79	5.01	<0.05	<0.02	0.07	0.025	0.06	13.1	5.1	0.15	445	2.87	0.01
ZZ65783		3.20	65.7	3.18	3.18	0.05	0.08	0.06	0.033	0.08	22.7	11.8	0.21	418	1.64	0.02
ZZ65784		2.21	23.2	2.79	5.74	0.07	0.02	0.05	0.030	0.05	13.9	13.8	0.31	419	1.88	<0.01
ZZ65785		7.05	41.0	2.61	3.89	0.08	0.06	0.10	0.033	0.05	18.0	13.1	0.20	701	10.65	0.01
ZZ65786		1.14	27.8	2.57	3.81	0.07	0.03	0.07	0.036	0.05	15.6	18.8	0.19	278	1.63	0.01
ZZ65787		2.03	8.2	1.75	6.05	<0.05	<0.02	0.04	0.014	0.04	11.1	3.0	0.06	116	6.70	0.01
ZZ65788		1.82	20.4	3.73	5.92	0.06	<0.02	0.05	0.030	0.06	14.8	7.4	0.17	535	4.10	0.01
ZZ65789		2.32	20.3	2.49	5.46	0.06	<0.02	0.07	0.046	0.05	14.1	16.9	0.30	492	2.59	0.01
ZZ65790		1.72	33.5	2.69	5.52	0.07	0.02	0.07	0.046	0.06	14.7	13.0	0.23	931	5.24	0.01



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65751		0.44	11.7	430	14.6	8.4	0.001	0.02	8.95	0.9	0.4	0.5	6.6	<0.01	0.04	1.0
ZZ65752		0.77	11.8	290	13.4	11.0	0.001	<0.01	1.71	1.4	0.3	0.6	5.8	<0.01	0.04	4.1
ZZ65753		0.86	12.0	520	16.3	9.3	0.001	0.02	1.15	1.4	0.9	0.6	9.5	<0.01	0.05	0.8
ZZ65754		0.85	11.3	320	14.5	16.7	0.001	<0.01	2.48	1.5	0.4	0.4	4.8	<0.01	0.06	6.8
ZZ65755		0.50	14.7	530	17.7	13.6	0.001	0.01	3.84	1.4	0.4	0.4	12.7	<0.01	0.07	3.2
ZZ65756		0.62	8.9	410	11.0	9.5	0.001	0.01	1.78	0.7	0.4	0.6	6.6	<0.01	0.05	0.5
ZZ65757		0.17	35.8	420	9.7	6.4	0.001	0.01	2.49	1.8	0.3	0.2	18.6	<0.01	0.04	14.7
ZZ65758		0.43	30.7	650	23.4	9.0	0.001	0.01	4.99	2.1	0.7	0.4	20.7	<0.01	0.06	9.1
ZZ65759		0.58	15.4	420	20.5	12.8	0.001	0.01	4.04	1.2	0.4	0.6	8.6	<0.01	0.05	3.4
ZZ65760		0.27	21.1	470	11.0	8.4	<0.001	0.02	5.41	1.1	<0.2	0.4	7.5	<0.01	0.02	7.1
ZZ65761		0.13	7.5	660	17.9	12.1	<0.001	0.02	2.31	0.2	0.2	0.6	5.2	<0.01	0.01	<0.2
ZZ65762		0.50	17.6	600	27.1	11.2	<0.001	0.03	5.78	1.4	0.4	0.5	12.4	<0.01	0.02	2.3
ZZ65763		0.19	14.4	640	12.7	5.8	<0.001	0.03	4.80	1.1	<0.2	0.2	3.9	<0.01	<0.01	2.9
ZZ65764																
ZZ65765		0.14	5.9	870	10.2	3.8	0.001	0.07	1.27	0.2	<0.2	0.3	6.1	<0.01	0.01	<0.2
ZZ65766		0.21	19.7	800	29.6	5.8	0.001	0.05	2.74	0.8	0.5	0.3	6.9	<0.01	0.06	1.1
ZZ65767		0.27	32.5	570	31.0	6.2	<0.001	0.02	4.03	1.5	0.5	0.4	11.6	<0.01	0.04	6.1
ZZ65768		0.17	25.8	640	24.3	5.8	0.001	0.05	3.92	2.0	0.3	0.2	37.3	<0.01	<0.01	3.5
ZZ65769		0.09	32.9	550	30.6	3.2	<0.001	0.04	3.75	2.2	0.6	0.2	38.1	<0.01	0.01	6.1
ZZ65770		0.10	36.3	520	30.1	4.7	<0.001	0.01	3.19	2.3	0.6	0.3	25.2	<0.01	0.02	9.4
ZZ65771		0.07	36.2	470	22.3	4.6	<0.001	0.02	4.93	1.5	0.4	0.3	19.6	<0.01	0.03	10.5
ZZ65772		0.64	24.5	670	43.0	9.8	0.001	0.04	5.29	2.2	0.7	0.4	14.0	0.01	0.01	1.4
ZZ65773		0.35	26.3	920	85.4	6.7	<0.001	0.06	17.60	3.2	1.4	0.3	36.8	0.01	0.02	2.4
ZZ65774		0.29	19.2	850	62.5	4.7	<0.001	0.09	12.85	3.1	0.9	0.2	64.8	0.01	0.02	2.2
ZZ65775		0.39	23.7	890	29.2	6.9	<0.001	0.07	3.67	2.3	0.7	0.4	32.1	<0.01	0.04	3.5
ZZ65776		0.60	22.8	1050	22.4	8.4	<0.001	0.08	14.70	2.1	0.2	0.4	42.1	<0.01	0.04	2.0
ZZ65777		0.80	37.3	660	34.2	7.9	<0.001	0.09	3.00	2.9	0.4	0.6	66.4	<0.01	0.04	7.8
ZZ65778		0.60	24.2	1360	23.4	10.6	0.001	0.13	7.34	1.6	1.6	0.6	59.3	<0.01	0.04	2.0
ZZ65779		1.29	32.7	580	23.9	16.1	<0.001	0.03	3.32	3.0	0.4	0.8	26.7	<0.01	0.04	2.8
ZZ65780		0.40	14.4	790	22.3	12.4	<0.001	0.04	5.38	0.5	0.2	0.9	12.0	<0.01	0.05	0.2
ZZ65781		0.75	24.3	530	21.7	9.7	0.001	0.03	5.01	1.8	0.6	0.4	8.3	<0.01	0.05	3.9
ZZ65782		0.48	14.0	1060	17.1	11.0	0.001	0.05	1.95	0.5	0.5	0.6	7.9	<0.01	0.06	0.2
ZZ65783		0.56	31.0	1130	24.3	16.4	<0.001	0.09	6.88	2.3	0.9	1.3	54.1	<0.01	0.04	2.9
ZZ65784		0.70	19.5	520	18.3	12.0	0.001	0.02	2.54	1.8	<0.2	1.0	33.1	<0.01	0.03	1.6
ZZ65785		0.52	19.5	2000	14.4	12.8	0.002	0.14	3.24	1.1	0.7	0.6	42.1	0.01	0.05	0.8
ZZ65786		0.55	19.0	650	18.9	10.1	0.001	0.04	2.57	1.6	<0.2	0.6	15.5	<0.01	0.04	2.2
ZZ65787		0.67	6.9	330	10.0	8.9	<0.001	0.02	1.73	0.6	<0.2	0.9	6.3	<0.01	0.04	0.3
ZZ65788		1.18	16.2	570	31.4	16.4	0.001	0.02	16.35	1.2	0.3	1.0	6.0	<0.01	0.05	0.9
ZZ65789		0.81	16.3	690	34.5	16.5	<0.001	0.03	8.75	1.5	0.2	1.1	30.5	<0.01	0.03	0.7
ZZ65790		1.01	15.8	610	32.0	14.9	<0.001	0.04	7.18	1.9	0.6	1.6	36.7	<0.01	0.01	1.3

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CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65751		0.019	0.08	1.19	28	0.16	3.29	47	<0.5
ZZ65752		0.018	0.12	0.58	34	0.17	2.69	41	<0.5
ZZ65753		0.016	0.18	1.10	48	0.24	4.33	38	<0.5
ZZ65754		0.014	0.11	0.57	37	0.19	2.36	42	0.8
ZZ65755		0.011	0.11	0.95	27	0.30	3.91	49	<0.5
ZZ65756		0.021	0.08	0.57	45	0.33	1.99	40	<0.5
ZZ65757		<0.005	0.05	2.27	10	0.07	5.53	75	2.1
ZZ65758		0.010	0.10	1.59	26	0.26	7.17	91	1.1
ZZ65759		0.011	0.11	0.88	29	0.19	2.91	57	<0.5
ZZ65760		0.005	0.08	1.39	10	0.09	3.60	48	0.8
ZZ65761		0.006	0.09	0.51	27	0.22	1.44	44	<0.5
ZZ65762		0.013	0.10	1.05	29	0.24	3.76	76	<0.5
ZZ65763		0.005	0.05	0.98	12	0.08	3.86	50	0.7
ZZ65764									
ZZ65765		0.007	0.05	0.57	15	0.07	1.09	34	<0.5
ZZ65766		0.010	0.07	1.38	19	0.11	3.89	72	0.7
ZZ65767		0.007	0.06	1.58	20	0.13	5.17	94	1.2
ZZ65768		<0.005	0.05	0.99	14	0.13	11.60	76	3.2
ZZ65769		<0.005	0.04	1.16	11	0.06	11.35	89	5.3
ZZ65770		<0.005	0.04	1.80	12	0.08	9.75	89	2.9
ZZ65771		<0.005	0.04	1.29	11	0.07	6.79	80	2.5
ZZ65772		0.024	0.12	1.36	37	0.24	8.14	247	0.7
ZZ65773		0.011	0.09	3.03	17	0.22	21.0	184	3.7
ZZ65774		0.007	0.05	1.59	14	0.16	19.50	123	3.4
ZZ65775		0.009	0.08	1.63	15	0.12	11.85	193	2.0
ZZ65776		0.019	0.10	1.15	29	0.18	8.81	60	1.9
ZZ65777		0.030	0.09	1.80	29	0.65	9.43	92	4.2
ZZ65778		0.011	0.11	2.07	18	0.27	15.60	68	4.3
ZZ65779		0.031	0.23	1.01	53	0.39	4.49	102	1.0
ZZ65780		0.015	0.19	0.83	34	2.22	3.69	57	<0.5
ZZ65781		0.015	0.12	0.98	33	0.32	3.87	70	1.3
ZZ65782		0.013	0.17	0.80	55	0.24	2.31	67	<0.5
ZZ65783		0.010	0.23	3.80	22	0.57	14.20	81	2.3
ZZ65784		0.019	0.18	0.79	46	0.73	3.80	64	0.6
ZZ65785		0.013	0.17	4.70	25	0.87	18.05	83	1.1
ZZ65786		0.011	0.11	0.95	30	3.11	6.74	79	0.8
ZZ65787		0.029	0.11	0.53	59	0.81	1.81	29	<0.5
ZZ65788		0.029	0.12	0.72	47	5.20	2.96	84	<0.5
ZZ65789		0.021	0.16	2.11	42	2.69	8.90	84	<0.5
ZZ65790		0.036	0.18	2.54	38	6.04	13.05	85	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65791		0.12	0.014	0.23	0.89	829	<0.2	<10	130	0.49	1.93	0.10	0.26	32.8	7.0	12
ZZ65792		0.19	0.011	0.36	0.99	344	<0.2	<10	200	0.87	1.61	0.15	0.28	32.9	3.9	13

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CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method Analyte Units LOR	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01	ME-MS41 Mn ppm 5	ME-MS41 Mo ppm 0.05	ME-MS41 Na % 0.01
ZZ65791		1.70	17.6	2.88	4.49	0.08	<0.02	0.05	0.034	0.05	17.0	10.6	0.14	450	5.13	0.01
ZZ65792		1.51	17.8	2.10	4.15	0.08	<0.02	0.06	0.034	0.05	18.3	8.4	0.14	186	2.77	0.01

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CERTIFICATE OF ANALYSIS WH12150392

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ65791		0.65	12.5	410	33.5	14.7	<0.001	0.01	17.30	1.3	<0.2	0.7	9.9	<0.01	0.03	2.7
ZZ65792		0.61	12.9	420	22.8	12.9	0.001	0.02	10.15	1.1	0.2	1.0	15.1	<0.01	0.03	1.0

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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65791		0.014	0.11	1.10	31	2.97	4.17	75	<0.5
ZZ65792		0.014	0.12	1.40	31	5.56	6.08	62	<0.5

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



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Project: Lance
 P.O. No.:
 This report is for 155 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29- JUN- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

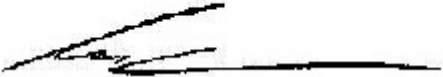
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

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

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

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

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65801		0.23	0.014	0.25	1.37	406	<0.2	<10	90	0.67	1.54	0.26	0.21	68.0	17.7	14
ZZ65802		0.25	0.005	0.21	1.19	183.0	<0.2	<10	80	0.64	1.37	0.94	0.19	49.8	10.5	12
ZZ65803		0.31	0.006	0.21	1.37	199.0	<0.2	<10	80	0.70	1.53	0.77	0.14	60.1	13.5	14
ZZ65804		0.26	0.006	0.10	1.45	202	<0.2	<10	90	0.56	1.11	0.34	0.11	69.8	13.7	18
ZZ65805		0.24	0.012	0.16	1.44	458	<0.2	<10	80	0.67	1.95	0.10	0.18	85.4	18.1	18
ZZ65806		0.29	0.154	1.82	1.38	4410	<0.2	<10	110	0.76	11.60	0.15	0.80	87.1	33.4	15
ZZ65807		0.32	0.011	0.31	1.75	641	<0.2	<10	80	0.98	1.37	0.24	0.19	119.0	30.3	20
ZZ65808		0.16	0.013	0.34	0.88	518	<0.2	<10	80	0.84	2.40	0.21	0.41	88.4	18.6	10
ZZ65809		0.21	0.011	0.14	1.35	188.5	<0.2	<10	70	0.55	1.15	0.22	0.15	41.8	23.7	19
ZZ65810		0.19	0.004	0.11	0.74	195.5	<0.2	<10	60	0.42	0.95	0.06	0.15	58.9	9.6	10
ZZ65811		0.15	0.014	0.26	0.80	925	<0.2	<10	100	0.65	1.44	0.15	0.30	57.3	15.1	13
ZZ65812		0.24	0.008	0.17	1.36	550	<0.2	<10	80	0.68	1.16	0.04	0.36	62.9	16.7	17
ZZ65813		0.14	0.004	0.07	0.60	55.1	<0.2	<10	40	0.20	0.72	0.02	0.11	60.0	2.9	9
ZZ65814		0.28	0.004	0.04	0.52	63.9	<0.2	<10	60	0.08	0.52	0.02	0.08	58.9	1.9	7
ZZ65815		0.22	0.004	0.05	0.83	139.0	<0.2	<10	50	0.17	0.68	0.02	0.11	61.4	4.0	10
ZZ65816		0.17	0.005	0.03	0.65	172.0	<0.2	<10	70	0.12	1.05	0.10	0.08	40.8	3.3	9
ZZ65817		0.30	0.005	0.09	1.07	389	<0.2	<10	100	0.18	0.78	0.07	0.08	29.5	3.5	16
ZZ65818		0.31	0.004	0.15	0.80	193.0	<0.2	<10	70	0.18	0.70	0.07	0.10	25.3	2.9	10
ZZ65819		0.29	0.003	0.04	1.13	66.6	<0.2	<10	70	0.30	0.55	0.03	0.13	37.8	4.6	14
ZZ65820		0.26	0.002	0.06	0.81	70.2	<0.2	<10	50	0.15	0.65	0.03	0.11	25.0	5.5	15
ZZ65821		0.32	0.002	0.04	1.00	332	<0.2	<10	120	0.30	1.13	0.06	0.17	46.4	6.0	10
ZZ65822		0.24	0.005	0.06	1.00	355	<0.2	<10	60	0.41	1.56	0.02	0.13	39.8	7.6	11
ZZ65823		0.22	0.002	0.03	1.20	128.0	<0.2	<10	80	0.26	0.65	0.06	0.09	29.5	5.7	18
ZZ65824		0.37	0.003	0.03	1.05	74.5	<0.2	<10	90	0.24	0.39	0.07	0.10	23.0	4.6	14
ZZ65825		0.22	0.004	0.06	1.23	118.0	<0.2	<10	70	0.35	0.64	0.03	0.13	34.1	6.7	16
ZZ65826		0.15	0.011	0.15	0.82	142.5	<0.2	<10	110	0.28	0.52	0.14	0.15	23.1	3.9	11
ZZ65827		0.28	0.008	0.08	0.85	548	<0.2	<10	80	0.26	2.49	0.03	0.14	34.1	4.6	11
ZZ65828		0.23	0.004	0.16	0.89	91.2	<0.2	<10	110	0.29	0.42	0.05	0.11	26.4	3.4	12
ZZ65829		0.15	0.002	0.08	0.61	21.6	<0.2	<10	30	0.10	0.24	0.03	0.06	13.50	1.1	8
ZZ65830		0.15	0.004	0.03	0.65	23.0	<0.2	<10	60	0.10	0.34	0.03	0.08	33.4	2.4	11
ZZ65831		0.24	0.002	0.06	0.89	32.6	<0.2	<10	110	0.16	0.33	0.03	0.11	28.3	4.2	14
ZZ65832		0.19	0.018	0.87	0.89	1785	<0.2	<10	80	0.45	4.51	0.12	0.36	22.2	3.6	10
ZZ65833		0.27	0.006	0.15	0.68	194.5	<0.2	<10	60	0.27	1.82	0.03	0.14	80.2	5.2	9
ZZ65834		0.34	0.076	0.31	1.01	4450	<0.2	<10	130	1.38	8.87	0.10	1.20	42.0	15.9	8
ZZ65835		0.14	0.012	0.12	0.50	118.0	<0.2	<10	60	0.24	0.50	0.08	0.17	53.7	8.6	9
ZZ65836		0.19	0.005	0.25	1.05	218	<0.2	<10	90	0.54	0.64	0.08	0.17	57.9	15.6	12
ZZ65837		0.17	0.011	0.25	0.93	398	<0.2	<10	80	0.69	1.39	0.15	0.28	61.5	13.0	13
ZZ65838		0.17	0.008	0.13	0.76	284	<0.2	<10	60	0.31	1.19	0.06	0.10	78.2	8.3	13
ZZ65839		0.33	0.010	0.25	1.49	190.5	<0.2	<10	80	0.74	1.47	0.93	0.14	44.3	11.7	17
ZZ65840		0.21	0.015	0.39	0.78	159.5	<0.2	<10	100	0.40	1.29	0.42	0.37	30.9	9.0	11

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CERTIFICATE OF ANALYSIS WH12150393

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ65801		2.96	36.7	3.41	3.85	0.05	0.08	0.05	0.028	0.05	36.0	31.8	0.35	1190	0.71	0.01
ZZ65802		1.87	34.6	3.08	3.17	0.05	0.11	0.02	0.025	0.05	26.8	27.5	0.34	390	0.64	0.01
ZZ65803		2.05	40.6	3.35	3.66	0.06	0.12	0.03	0.025	0.05	32.2	35.5	0.43	397	0.64	0.01
ZZ65804		2.09	26.4	3.36	4.52	0.07	0.08	0.02	0.023	0.05	36.8	32.9	0.44	436	0.73	<0.01
ZZ65805		3.06	34.3	4.04	4.19	0.07	0.04	0.03	0.026	0.04	43.8	36.5	0.42	588	0.99	<0.01
ZZ65806		4.81	67.8	5.79	3.95	0.10	0.04	0.03	0.055	0.05	43.1	29.3	0.35	6940	0.86	<0.01
ZZ65807		6.84	62.1	4.44	4.86	0.08	0.06	0.03	0.032	0.09	60.6	48.1	0.50	1310	0.70	<0.01
ZZ65808		4.88	41.9	5.01	2.41	0.09	0.05	0.05	0.042	0.06	44.5	13.6	0.16	1280	0.67	0.01
ZZ65809		1.98	24.5	3.67	4.21	0.06	0.11	0.02	0.024	0.06	20.3	41.6	0.45	1440	0.51	<0.01
ZZ65810		1.88	22.4	3.34	2.93	0.05	0.03	0.02	0.025	0.05	30.2	10.4	0.12	572	0.72	<0.01
ZZ65811		3.24	26.2	3.90	2.71	0.06	0.05	0.04	0.025	0.06	29.8	10.2	0.14	1310	1.00	0.01
ZZ65812		3.07	29.1	3.35	3.65	0.06	0.05	0.04	0.026	0.05	31.4	30.0	0.30	661	1.33	<0.01
ZZ65813		1.73	18.0	1.46	3.39	<0.05	<0.02	0.04	0.016	0.04	31.3	3.4	0.05	88	0.74	0.01
ZZ65814		1.61	10.4	1.02	5.71	<0.05	<0.02	0.02	0.008	0.04	30.7	4.3	0.06	63	0.96	<0.01
ZZ65815		1.67	12.1	2.38	4.56	0.05	0.02	0.03	0.015	0.05	31.8	8.2	0.10	225	1.20	<0.01
ZZ65816		1.08	11.0	2.11	4.73	<0.05	<0.02	0.03	0.011	0.04	21.1	4.7	0.07	137	1.09	<0.01
ZZ65817		3.55	10.1	2.02	7.78	<0.05	<0.02	0.03	0.020	0.06	15.2	4.1	0.11	428	2.04	<0.01
ZZ65818		1.59	14.2	1.66	4.67	0.06	<0.02	0.02	0.015	0.04	12.9	4.0	0.08	108	1.44	0.01
ZZ65819		1.56	13.1	2.60	5.49	0.07	0.02	0.01	0.017	0.04	19.4	15.0	0.17	148	2.25	<0.01
ZZ65820		1.86	11.1	3.42	6.23	0.07	<0.02	0.07	0.016	0.04	12.2	5.5	0.14	335	2.15	0.01
ZZ65821		1.86	17.4	2.99	4.09	0.09	0.02	<0.01	0.021	0.05	23.6	9.5	0.13	261	1.31	0.01
ZZ65822		1.76	24.8	3.38	2.97	0.09	0.06	0.02	0.021	0.05	20.2	15.1	0.22	275	1.13	0.01
ZZ65823		2.04	10.3	3.09	7.51	0.07	<0.02	0.01	0.018	0.04	15.0	10.2	0.21	299	2.03	0.01
ZZ65824		1.94	8.2	2.29	6.02	0.06	<0.02	0.02	0.016	0.04	11.2	8.6	0.16	199	1.56	0.01
ZZ65825		1.71	17.6	2.79	5.43	0.07	<0.02	0.04	0.020	0.06	17.6	15.3	0.20	369	2.10	<0.01
ZZ65826		2.20	13.5	1.71	4.13	0.06	<0.02	0.03	0.015	0.04	11.3	4.1	0.08	97	1.23	0.01
ZZ65827		1.77	15.6	2.34	5.04	0.07	<0.02	0.02	0.018	0.04	17.5	3.9	0.09	240	1.85	<0.01
ZZ65828		1.69	11.7	2.08	4.87	0.05	<0.02	0.02	0.017	0.03	13.5	6.6	0.09	145	1.62	0.01
ZZ65829		1.22	6.8	0.85	3.30	<0.05	<0.02	0.02	0.010	0.02	6.8	1.5	0.04	35	0.66	0.02
ZZ65830		1.44	8.6	1.27	7.21	0.07	<0.02	0.02	0.010	0.03	17.0	2.0	0.05	105	2.32	0.01
ZZ65831		1.43	9.7	2.60	6.58	0.07	<0.02	0.02	0.015	0.04	14.5	5.2	0.12	336	2.16	0.01
ZZ65832		2.42	12.0	2.09	3.61	0.06	0.04	0.05	0.026	0.05	10.8	6.1	0.11	640	1.19	0.01
ZZ65833		2.49	20.7	2.87	3.92	0.13	<0.02	0.07	0.017	0.05	41.0	6.1	0.10	218	1.01	0.01
ZZ65834		2.74	36.6	4.63	2.42	0.11	0.10	0.03	0.054	0.05	19.7	10.9	0.13	1830	0.89	0.01
ZZ65835		2.49	19.0	2.90	3.66	0.09	<0.02	0.06	0.020	0.05	27.5	2.8	0.06	608	1.48	0.01
ZZ65836		4.96	20.3	3.38	3.71	0.12	0.02	0.07	0.024	0.06	29.1	12.3	0.19	937	1.12	0.01
ZZ65837		3.27	25.5	3.56	3.82	0.12	0.03	0.05	0.027	0.06	31.1	14.1	0.18	946	1.09	0.01
ZZ65838		2.04	22.6	2.89	4.15	0.14	0.02	0.03	0.017	0.04	39.8	11.6	0.16	543	1.05	0.01
ZZ65839		1.69	38.0	3.44	4.16	0.13	0.13	0.03	0.028	0.05	24.4	32.1	0.48	363	0.63	0.01
ZZ65840		1.27	21.9	2.46	2.87	0.08	0.06	0.10	0.018	0.06	15.8	12.6	0.19	431	0.67	0.01

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65801		0.23	27.0	800	57.6	6.1	<0.001	0.04	2.99	1.8	0.4	0.3	23.0	<0.01	0.05	5.9
ZZ65802		0.23	25.5	780	29.5	4.9	<0.001	0.08	3.04	1.7	0.4	0.2	56.9	<0.01	0.04	2.8
ZZ65803		0.20	30.9	540	25.6	4.6	<0.001	0.05	4.43	2.2	0.5	0.2	48.2	<0.01	0.05	4.9
ZZ65804		0.33	25.7	610	22.0	7.5	<0.001	0.05	3.57	1.7	0.4	0.3	23.5	<0.01	0.04	6.0
ZZ65805		0.35	31.5	470	35.7	6.2	<0.001	0.02	3.34	1.8	0.4	0.3	13.4	<0.01	0.06	7.8
ZZ65806		0.21	39.5	560	302	5.9	<0.001	0.03	11.15	2.7	0.5	0.5	36.9	0.01	0.09	9.6
ZZ65807		0.21	39.6	830	83.4	7.2	<0.001	0.03	5.83	2.4	0.4	0.3	26.7	<0.01	0.06	15.2
ZZ65808		0.32	31.7	690	62.9	6.9	<0.001	0.04	11.00	2.0	0.4	0.3	16.1	0.01	0.05	6.0
ZZ65809		0.14	30.3	670	32.5	5.1	<0.001	0.05	3.63	2.0	0.3	0.2	14.6	<0.01	0.02	5.8
ZZ65810		0.40	15.9	670	21.4	9.2	<0.001	0.03	4.74	1.3	0.3	0.3	7.5	<0.01	0.04	2.4
ZZ65811		0.29	18.5	990	25.1	9.7	<0.001	0.05	7.57	1.4	0.4	0.3	12.8	<0.01	0.04	3.6
ZZ65812		0.62	20.7	370	16.7	10.0	<0.001	0.02	3.58	2.0	0.5	0.4	6.7	<0.01	0.03	8.2
ZZ65813		0.25	8.1	730	7.5	5.4	<0.001	0.04	1.03	0.4	0.3	0.4	7.1	<0.01	0.03	<0.2
ZZ65814		0.32	5.5	320	6.0	7.9	<0.001	0.02	1.45	0.8	0.2	0.5	5.4	<0.01	0.03	2.2
ZZ65815		0.75	10.1	280	12.0	10.6	<0.001	0.02	1.62	1.4	0.3	0.5	5.2	<0.01	0.04	6.5
ZZ65816		0.63	8.7	260	8.4	7.0	<0.001	0.02	1.49	1.0	0.3	0.6	8.8	<0.01	0.03	2.8
ZZ65817		0.94	8.4	370	14.7	12.7	<0.001	0.03	1.46	1.2	0.5	1.0	11.2	<0.01	0.05	0.3
ZZ65818		0.37	8.6	700	11.4	7.2	<0.001	0.02	1.15	0.4	0.4	0.5	8.2	<0.01	0.04	0.2
ZZ65819		1.13	13.0	240	11.6	9.6	<0.001	<0.01	1.41	1.5	0.5	0.6	5.8	<0.01	0.04	3.9
ZZ65820		1.20	11.3	490	17.4	10.2	<0.001	0.02	1.43	1.1	0.6	0.7	7.0	<0.01	0.05	1.1
ZZ65821		0.56	12.4	320	14.6	10.3	<0.001	<0.01	2.59	1.3	0.4	0.5	7.9	<0.01	0.05	5.3
ZZ65822		0.39	18.7	580	18.1	8.8	<0.001	0.02	4.54	1.3	0.5	0.3	4.9	<0.01	0.05	6.0
ZZ65823		1.59	12.1	300	15.0	10.6	<0.001	<0.01	1.00	1.7	0.4	0.8	8.5	<0.01	0.06	2.2
ZZ65824		1.01	10.5	340	10.7	9.9	<0.001	0.01	0.77	1.1	0.4	0.7	9.2	<0.01	0.04	0.9
ZZ65825		0.91	15.0	390	11.8	11.8	<0.001	<0.01	1.44	1.4	0.6	0.6	6.4	<0.01	0.06	2.1
ZZ65826		0.43	10.0	830	9.7	7.9	<0.001	0.04	0.81	0.4	0.4	0.6	13.3	<0.01	0.03	0.2
ZZ65827		0.58	11.0	420	13.4	10.5	<0.001	0.01	3.18	0.8	0.4	0.7	5.5	<0.01	0.05	0.7
ZZ65828		0.37	9.6	740	12.4	9.0	<0.001	0.03	1.25	0.4	0.5	0.6	7.7	<0.01	0.04	<0.2
ZZ65829		0.22	3.0	740	9.5	4.2	<0.001	0.04	0.63	0.2	0.5	0.4	5.8	<0.01	0.02	<0.2
ZZ65830		0.94	7.4	220	8.1	5.1	<0.001	<0.01	0.94	0.7	0.4	1.0	5.7	<0.01	0.04	0.4
ZZ65831		1.14	9.2	370	13.1	9.5	<0.001	<0.01	1.10	1.2	0.5	0.8	6.9	<0.01	0.05	1.0
ZZ65832		0.77	8.9	430	83.6	12.5	<0.001	0.02	4.70	1.0	0.5	0.5	10.0	<0.01	0.06	1.8
ZZ65833		0.42	11.9	710	11.2	7.7	<0.001	0.03	2.58	0.7	0.5	0.5	7.5	<0.01	0.05	2.2
ZZ65834		0.53	18.4	530	361	8.5	<0.001	0.01	30.7	1.5	0.7	0.4	10.1	0.01	0.04	4.4
ZZ65835		0.39	14.1	830	17.3	8.2	<0.001	0.03	5.89	0.9	0.4	0.5	7.0	<0.01	0.05	0.8
ZZ65836		0.47	19.6	580	24.9	7.7	<0.001	0.03	8.95	1.4	0.5	0.4	7.5	<0.01	0.05	3.7
ZZ65837		0.56	21.4	710	51.4	9.0	<0.001	0.03	6.83	1.4	0.5	0.4	12.4	<0.01	0.05	3.9
ZZ65838		0.34	15.8	640	18.3	5.6	<0.001	0.01	3.89	1.1	0.3	0.4	6.6	<0.01	0.04	5.5
ZZ65839		0.19	31.6	700	29.9	4.8	<0.001	0.06	6.05	2.4	1.0	0.2	51.9	<0.01	0.04	3.9
ZZ65840		0.27	17.3	1040	23.2	5.0	<0.001	0.10	2.82	1.0	0.5	0.2	27.8	<0.01	0.04	2.2

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65801		0.006	0.06	1.78	16	0.15	8.52	80	2.4
ZZ65802		0.005	0.04	1.60	12	0.11	11.15	76	3.5
ZZ65803		<0.005	0.04	1.43	13	0.07	11.00	71	3.6
ZZ65804		0.006	0.06	1.52	18	0.18	5.80	74	2.6
ZZ65805		0.008	0.06	1.71	19	0.18	5.06	87	1.1
ZZ65806		0.005	0.08	7.67	15	0.13	15.25	119	1.1
ZZ65807		<0.005	0.07	2.47	16	0.10	10.55	96	2.0
ZZ65808		0.006	0.07	2.81	13	0.12	10.10	163	1.2
ZZ65809		<0.005	0.05	1.12	12	0.08	7.92	81	3.5
ZZ65810		0.008	0.08	1.06	16	0.11	3.40	60	0.6
ZZ65811		0.007	0.07	2.46	14	0.14	6.70	63	1.1
ZZ65812		0.010	0.09	1.11	26	0.15	4.38	61	1.7
ZZ65813		0.006	0.10	0.98	20	0.09	2.16	19	<0.5
ZZ65814		0.007	0.09	0.49	28	0.13	1.74	21	<0.5
ZZ65815		0.012	0.12	0.67	30	0.18	2.74	34	0.6
ZZ65816		0.017	0.10	0.48	36	0.19	1.98	30	<0.5
ZZ65817		0.026	0.24	0.63	60	0.26	2.32	33	<0.5
ZZ65818		0.012	0.13	0.77	32	0.13	1.87	32	<0.5
ZZ65819		0.020	0.17	0.61	45	0.21	2.62	49	0.6
ZZ65820		0.037	0.13	0.68	54	0.28	2.12	44	<0.5
ZZ65821		0.007	0.14	0.77	25	0.10	3.14	48	0.7
ZZ65822		0.006	0.09	0.98	16	0.09	3.44	52	1.6
ZZ65823		0.040	0.18	0.60	58	0.24	2.33	45	<0.5
ZZ65824		0.026	0.14	0.55	48	0.21	2.18	38	<0.5
ZZ65825		0.016	0.15	0.69	41	0.20	2.58	57	<0.5
ZZ65826		0.013	0.11	1.07	28	0.13	2.62	23	<0.5
ZZ65827		0.018	0.14	0.61	38	0.18	2.29	41	<0.5
ZZ65828		0.014	0.13	0.66	37	0.17	2.31	36	<0.5
ZZ65829		0.012	0.07	0.51	21	0.07	1.37	10	<0.5
ZZ65830		0.034	0.16	0.55	69	0.24	1.91	32	<0.5
ZZ65831		0.031	0.17	0.55	60	0.23	2.12	38	<0.5
ZZ65832		0.012	0.13	1.85	26	0.14	3.09	64	0.7
ZZ65833		0.011	0.09	1.19	20	0.12	2.45	36	<0.5
ZZ65834		0.006	0.10	4.19	13	0.16	7.48	164	2.1
ZZ65835		0.014	0.10	1.25	30	0.15	2.65	60	<0.5
ZZ65836		0.013	0.09	1.23	23	0.14	4.32	61	0.7
ZZ65837		0.009	0.08	2.94	20	0.15	3.93	80	0.8
ZZ65838		0.008	0.06	1.18	20	0.10	2.55	58	0.8
ZZ65839		<0.005	0.06	1.81	14	0.05	14.35	83	4.1
ZZ65840		0.007	0.05	0.91	13	0.20	3.45	53	1.9



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65841		0.22	0.010	0.26	1.42	825	<0.2	<10	110	0.81	7.38	0.46	0.17	89.5	25.0	15
ZZ65842		0.24	0.004	0.15	1.16	729	<0.2	<10	70	0.49	2.49	0.12	0.18	61.8	11.5	14
ZZ65843		0.15	0.030	0.08	1.12	622	<0.2	<10	50	0.37	3.55	0.01	0.07	95.7	7.0	13
ZZ65844		0.26	0.124	0.16	1.23	866	<0.2	<10	40	0.58	3.72	0.01	0.09	103.5	9.0	12
ZZ65845		0.28	0.054	0.07	1.51	741	<0.2	<10	40	0.78	3.57	0.01	0.05	119.5	18.7	16
ZZ65846		0.20	0.011	0.16	0.83	134.5	<0.2	<10	90	0.27	0.48	0.04	0.22	36.8	5.4	13
ZZ65847		0.30	0.005	0.24	1.31	91.6	<0.2	<10	170	0.54	0.45	0.08	0.31	31.1	9.4	19
ZZ65848		0.22	0.006	0.16	1.18	160.0	<0.2	<10	80	0.50	0.55	0.13	0.38	56.8	12.4	14
ZZ65849		0.30	0.011	0.15	1.25	222	<0.2	<10	110	0.57	0.82	0.13	0.33	64.8	13.9	16
ZZ65850		0.17	0.007	0.14	0.54	156.0	<0.2	<10	70	0.15	0.82	0.04	0.18	20.2	3.2	7
ZZ65851		0.20	0.004	0.31	1.01	193.5	<0.2	<10	80	0.23	0.91	0.03	0.13	28.9	3.6	14
ZZ65852		0.17	0.003	0.09	0.86	334	<0.2	<10	60	0.17	1.97	0.03	0.12	36.1	2.7	11
ZZ65853		0.14	0.008	0.19	0.88	92.2	<0.2	<10	60	0.21	0.43	0.06	0.09	24.6	2.3	13
ZZ65854		0.19	0.003	0.18	0.78	82.6	<0.2	<10	50	0.29	0.30	0.05	0.06	18.40	1.6	8
ZZ65855		0.19	0.007	0.08	1.32	146.5	<0.2	<10	90	0.32	0.43	0.08	0.12	27.5	4.6	23
ZZ65856		0.20	0.019	0.31	0.89	78.5	<0.2	<10	90	0.19	0.31	0.06	0.04	17.95	1.9	14
ZZ65857		0.23	0.005	0.14	1.11	98.5	<0.2	<10	80	0.22	0.56	0.05	0.16	28.6	6.2	21
ZZ65858		0.29	0.003	0.11	1.30	278	<0.2	<10	100	0.23	0.43	0.09	0.12	32.2	5.9	23
ZZ65859		0.28	0.013	0.06	1.57	187.5	<0.2	<10	60	0.70	1.03	0.02	0.28	135.0	64.5	19
ZZ65860		0.30	0.005	0.21	0.94	156.5	<0.2	<10	90	0.58	0.91	1.06	0.30	44.9	12.5	9
ZZ65861		0.22	0.006	0.34	0.81	146.0	<0.2	<10	70	0.79	0.89	1.50	0.26	34.0	10.0	7
ZZ65862		0.32	0.009	0.33	1.37	236	<0.2	<10	80	0.78	1.17	1.09	0.21	36.4	14.4	14
ZZ65863		0.29	0.007	0.26	0.69	294	<0.2	<10	60	0.41	1.61	0.06	0.21	49.9	5.5	10
ZZ65864		0.21	0.039	0.73	1.12	1075	<0.2	<10	130	0.89	3.30	1.16	0.45	44.2	12.3	12
ZZ65865		0.23	0.010	0.11	0.75	415	<0.2	<10	50	0.28	0.96	0.06	0.14	54.3	6.5	12
ZZ65866		0.22	0.006	0.10	1.09	550	<0.2	<10	100	0.57	0.88	0.16	0.12	65.4	11.9	16
ZZ65867		0.27	0.023	0.13	1.13	708	<0.2	<10	130	0.59	1.64	0.22	0.22	64.4	11.7	18
ZZ65868		0.33	0.018	0.24	1.32	596	<0.2	<10	180	0.62	1.35	0.24	0.22	64.6	12.0	18
ZZ65869		0.30	0.008	0.21	1.10	423	<0.2	<10	220	0.51	1.98	0.36	0.14	40.3	8.9	15
ZZ65870		0.42	0.009	0.28	1.44	609	<0.2	<10	160	0.74	3.70	0.30	0.16	46.6	14.6	17
ZZ65871		0.24	0.005	0.14	0.87	269	<0.2	<10	130	0.45	1.23	0.22	0.28	46.2	7.2	12
ZZ65872		0.22	0.013	0.23	1.03	285	<0.2	<10	110	0.42	1.01	0.07	0.13	24.1	5.9	12
ZZ65873		0.25	0.003	0.07	0.80	213	<0.2	<10	110	0.22	1.10	0.06	0.15	37.7	4.3	14
ZZ65874		0.33	0.003	0.07	0.71	171.5	<0.2	<10	60	0.16	0.90	0.03	0.10	38.4	3.2	12
ZZ65875		0.32	0.003	0.05	0.57	331	<0.2	<10	60	0.16	1.46	0.03	0.11	54.8	9.3	13
ZZ65876		0.26	0.002	0.15	1.14	206	<0.2	<10	110	0.24	0.52	0.07	0.23	27.2	4.9	20
ZZ65877		0.24	0.005	0.07	1.26	491	<0.2	<10	90	0.60	1.64	0.08	0.25	50.1	14.6	16
ZZ65878		0.27	0.003	0.08	1.05	165.5	<0.2	<10	140	0.29	0.77	0.21	0.06	25.6	3.3	14
ZZ65879		0.32	0.003	0.05	1.10	258	<0.2	<10	70	0.30	1.37	0.03	0.14	35.4	9.8	15
ZZ65880		0.32	0.004	0.06	1.24	462	<0.2	<10	110	0.39	1.63	0.03	0.13	45.0	9.5	16



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CERTIFICATE OF ANALYSIS WH12150393

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65841		2.18	57.9	4.02	4.23	0.18	0.16	0.02	0.023	0.05	47.5	37.3	0.50	814	0.75	0.01
ZZ65842		1.77	21.4	3.27	3.56	0.12	0.04	0.03	0.022	0.05	30.8	21.2	0.28	837	0.98	0.01
ZZ65843		2.06	35.2	4.63	4.07	0.20	0.07	0.02	0.021	0.04	49.7	20.1	0.33	189	0.80	0.01
ZZ65844		3.00	45.7	4.75	3.85	0.20	0.06	0.01	0.024	0.05	54.5	23.1	0.38	224	0.92	0.01
ZZ65845		3.69	46.2	5.31	4.77	0.23	0.05	0.01	0.032	0.05	61.6	30.8	0.54	311	0.53	0.01
ZZ65846		1.72	14.5	2.61	4.21	0.08	<0.02	0.03	0.014	0.05	18.9	8.5	0.12	296	1.78	0.01
ZZ65847		1.42	22.2	3.61	4.24	0.09	0.04	0.06	0.027	0.07	15.9	21.4	0.33	488	2.69	0.01
ZZ65848		1.12	26.9	3.14	3.35	0.12	0.06	0.04	0.022	0.05	28.7	20.0	0.30	510	2.13	0.01
ZZ65849		1.47	24.6	3.00	3.72	0.14	0.05	0.03	0.023	0.06	32.4	20.3	0.33	574	1.41	0.01
ZZ65850		1.07	11.0	1.53	2.46	0.05	<0.02	0.03	0.010	0.03	10.0	3.4	0.06	102	0.68	0.02
ZZ65851		1.73	18.0	2.36	4.84	0.06	<0.02	0.04	0.020	0.05	15.3	5.1	0.12	117	2.12	0.01
ZZ65852		1.97	13.3	2.23	5.82	0.08	<0.02	0.02	0.017	0.04	18.7	3.0	0.07	98	1.94	0.01
ZZ65853		2.03	12.3	1.22	4.13	0.06	<0.02	0.03	0.019	0.05	12.7	2.4	0.07	74	1.22	0.01
ZZ65854		1.22	12.5	0.93	2.20	<0.05	<0.02	0.04	0.012	0.03	9.7	1.4	0.04	40	0.64	0.02
ZZ65855		1.76	13.0	2.37	5.87	0.06	<0.02	0.03	0.023	0.04	14.0	7.8	0.21	304	1.61	0.01
ZZ65856		1.46	9.1	1.21	3.85	<0.05	<0.02	0.04	0.013	0.03	9.1	3.9	0.11	47	1.07	0.02
ZZ65857		1.59	13.6	3.07	5.59	0.07	<0.02	0.04	0.020	0.05	14.6	7.5	0.20	541	2.06	0.01
ZZ65858		1.31	9.7	3.04	9.25	0.08	<0.02	0.02	0.021	0.05	16.3	7.7	0.27	654	1.84	0.01
ZZ65859		3.97	33.2	4.63	4.41	0.24	0.05	0.03	0.023	0.05	68.2	32.8	0.51	1720	0.82	0.01
ZZ65860		1.26	23.1	2.64	2.15	0.09	0.15	0.14	0.023	0.06	22.0	14.7	0.27	539	0.62	0.01
ZZ65861		1.23	25.4	2.99	1.61	0.09	0.14	0.05	0.029	0.04	17.9	9.7	0.23	444	0.57	0.01
ZZ65862		1.54	34.1	3.19	3.09	0.09	0.15	0.04	0.030	0.05	19.1	25.3	0.42	512	0.45	0.01
ZZ65863		2.14	16.3	2.56	3.26	0.09	<0.02	0.03	0.017	0.04	26.1	5.7	0.09	230	0.91	0.01
ZZ65864		2.47	30.0	3.09	2.82	0.09	0.15	0.06	0.031	0.07	23.8	12.2	0.21	829	0.77	0.01
ZZ65865		1.74	17.4	2.70	3.97	0.09	<0.02	0.02	0.016	0.04	28.4	6.9	0.13	360	1.26	0.01
ZZ65866		2.47	23.2	3.51	3.58	0.12	0.04	0.02	0.024	0.05	34.8	16.2	0.25	519	1.09	0.01
ZZ65867		1.51	25.4	3.33	3.30	0.11	0.04	0.02	0.023	0.05	33.4	19.6	0.36	639	1.18	0.01
ZZ65868		2.08	25.3	3.41	3.65	0.12	0.05	0.03	0.028	0.06	34.4	20.9	0.33	563	1.14	0.01
ZZ65869		2.24	19.7	2.92	3.78	0.08	0.05	0.04	0.024	0.07	21.4	14.3	0.21	566	1.08	0.01
ZZ65870		3.34	32.0	4.05	3.73	0.09	0.06	0.04	0.034	0.06	25.3	20.8	0.29	1020	1.12	0.01
ZZ65871		1.75	19.0	2.43	3.23	0.08	0.02	0.02	0.019	0.06	24.0	11.4	0.17	349	1.03	0.01
ZZ65872		2.16	21.2	2.20	3.26	0.06	0.02	0.04	0.019	0.06	12.1	7.8	0.14	261	1.37	0.02
ZZ65873		2.01	16.6	2.15	4.75	0.07	<0.02	0.02	0.018	0.06	19.4	3.7	0.09	162	2.09	0.01
ZZ65874		2.09	11.8	2.02	4.65	0.07	<0.02	0.02	0.014	0.04	19.5	3.1	0.08	146	1.42	0.01
ZZ65875		2.43	14.7	2.96	4.47	0.09	<0.02	0.02	0.014	0.06	27.8	4.6	0.09	1370	1.64	0.01
ZZ65876		1.85	11.9	3.26	6.96	0.06	<0.02	0.03	0.019	0.06	13.9	6.7	0.21	233	2.96	0.01
ZZ65877		2.41	26.0	3.86	3.51	0.10	0.05	0.02	0.026	0.06	24.8	22.9	0.31	781	1.49	0.01
ZZ65878		2.53	11.6	1.73	5.30	0.05	<0.02	0.03	0.018	0.04	12.9	5.5	0.12	111	2.33	0.01
ZZ65879		1.88	22.0	3.53	3.62	0.07	0.02	0.02	0.023	0.07	18.1	11.0	0.20	509	1.32	0.01
ZZ65880		2.52	22.6	4.38	4.76	0.10	0.02	0.01	0.026	0.06	23.5	14.6	0.26	548	1.52	0.01

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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65841		0.09	39.0	470	40.6	3.1	<0.001	0.02	5.08	2.1	0.7	0.2	38.5	<0.01	0.05	10.8
ZZ65842		0.43	19.5	510	32.3	4.7	<0.001	0.01	2.70	1.3	0.5	0.3	10.9	<0.01	0.06	4.9
ZZ65843		0.18	20.4	650	9.2	5.8	<0.001	0.03	4.38	1.1	0.5	0.4	13.0	<0.01	0.06	8.3
ZZ65844		0.14	23.4	560	13.3	6.2	<0.001	0.04	7.41	1.5	0.5	0.5	19.2	<0.01	0.06	12.5
ZZ65845		0.09	26.4	390	9.4	5.0	<0.001	0.02	17.60	2.0	0.5	0.4	14.1	<0.01	0.05	20.6
ZZ65846		0.58	12.6	570	12.6	12.8	<0.001	0.02	2.94	1.1	0.5	0.4	5.9	<0.01	0.05	2.0
ZZ65847		0.52	24.5	760	19.0	9.9	<0.001	0.03	2.64	1.5	0.8	0.4	10.8	<0.01	0.06	2.2
ZZ65848		0.49	29.7	790	19.8	5.9	<0.001	<0.01	3.25	1.9	1.4	0.3	15.4	<0.01	0.04	7.4
ZZ65849		0.50	28.3	770	23.6	7.2	<0.001	<0.01	2.88	2.0	0.8	0.3	14.4	<0.01	0.05	6.6
ZZ65850		0.25	8.5	770	8.6	4.6	<0.001	0.03	1.32	0.3	0.3	0.3	5.4	<0.01	0.03	<0.2
ZZ65851		0.43	11.0	870	11.5	9.5	<0.001	0.04	1.72	0.5	0.7	0.5	5.2	<0.01	0.06	0.3
ZZ65852		0.53	7.6	520	15.1	9.0	<0.001	0.02	3.76	0.6	0.6	0.8	5.4	<0.01	0.05	0.3
ZZ65853		0.18	6.6	1400	8.5	6.8	<0.001	0.07	0.91	0.3	0.7	0.5	8.3	<0.01	0.03	<0.2
ZZ65854		0.23	5.6	1290	6.2	3.8	<0.001	0.09	1.08	0.2	0.7	0.3	6.9	<0.01	0.03	<0.2
ZZ65855		0.44	12.1	890	16.7	7.5	<0.001	0.04	1.22	0.5	0.8	0.6	10.4	<0.01	0.05	<0.2
ZZ65856		0.33	6.6	1110	10.5	4.9	<0.001	0.08	0.82	0.2	0.7	0.5	8.1	<0.01	0.03	<0.2
ZZ65857		0.62	13.4	810	20.8	9.1	<0.001	0.03	1.51	0.7	0.7	0.7	8.0	<0.01	0.06	0.2
ZZ65858		1.86	12.5	570	25.3	6.7	<0.001	0.01	0.92	2.1	0.6	1.0	10.4	<0.01	0.05	1.4
ZZ65859		0.20	47.7	440	11.8	7.5	<0.001	0.02	2.39	1.6	0.7	0.3	5.6	<0.01	0.05	12.1
ZZ65860		0.20	26.0	720	35.1	4.9	<0.001	0.05	4.79	2.1	1.0	0.2	60.3	<0.01	0.06	3.6
ZZ65861		0.21	23.9	630	30.9	4.7	<0.001	0.06	5.39	2.6	1.0	0.2	82.8	<0.01	0.03	2.2
ZZ65862		0.22	31.7	650	42.8	5.1	<0.001	0.06	8.08	3.0	0.9	0.2	59.2	0.01	0.04	2.9
ZZ65863		0.52	11.3	600	27.2	8.9	<0.001	0.03	3.63	0.8	0.2	0.5	7.2	<0.01	0.03	1.2
ZZ65864		0.53	22.8	1030	47.5	11.0	<0.001	0.08	6.90	1.9	0.8	0.4	64.0	0.01	0.05	3.0
ZZ65865		0.51	13.8	570	13.7	7.4	<0.001	0.03	4.21	1.0	0.3	0.5	7.8	<0.01	0.04	1.6
ZZ65866		0.47	22.6	620	15.9	8.4	<0.001	0.02	4.00	1.9	0.3	0.4	14.1	<0.01	0.04	4.5
ZZ65867		0.48	26.6	600	23.9	6.9	<0.001	0.01	3.81	2.2	0.5	0.3	17.7	<0.01	0.04	6.5
ZZ65868		0.44	25.9	590	37.5	10.0	<0.001	0.02	4.21	2.3	0.4	0.4	17.4	<0.01	0.03	5.3
ZZ65869		0.52	16.8	1090	24.5	13.2	<0.001	0.07	3.26	1.5	0.4	0.5	25.5	<0.01	0.04	2.2
ZZ65870		0.42	27.1	950	30.2	11.9	<0.001	0.04	4.86	2.1	0.6	0.5	19.4	<0.01	0.05	3.1
ZZ65871		0.38	15.2	630	20.5	8.9	<0.001	0.02	2.45	1.1	0.3	0.5	15.5	<0.01	0.03	1.7
ZZ65872		0.35	13.2	960	17.0	9.1	<0.001	0.05	2.30	0.6	0.6	0.4	9.6	<0.01	0.04	0.3
ZZ65873		0.59	12.0	470	17.6	12.6	<0.001	0.02	2.63	0.8	0.3	0.8	9.6	<0.01	0.04	0.3
ZZ65874		0.25	7.9	650	12.3	10.2	<0.001	0.02	1.38	0.3	0.3	0.7	6.6	<0.01	0.03	<0.2
ZZ65875		0.43	13.4	620	13.9	12.3	<0.001	0.01	2.61	0.8	0.2	0.5	5.5	<0.01	0.04	1.2
ZZ65876		1.09	13.7	500	15.1	12.0	<0.001	0.02	1.39	1.4	0.4	0.8	10.7	<0.01	0.05	0.5
ZZ65877		0.47	25.8	760	21.6	11.0	<0.001	0.01	3.07	1.6	0.4	0.3	11.9	<0.01	0.05	5.0
ZZ65878		0.55	9.6	790	11.8	9.4	<0.001	0.04	0.93	0.6	0.3	0.8	19.4	<0.01	0.03	<0.2
ZZ65879		0.59	17.1	660	19.3	10.8	<0.001	0.02	2.79	1.3	0.4	0.4	5.9	<0.01	0.04	2.5
ZZ65880		0.61	19.2	530	19.5	13.3	<0.001	0.01	3.52	1.6	0.4	0.5	7.4	<0.01	0.06	3.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65841		<0.005	0.04	1.41	10	<0.05	10.55	94	6.3
ZZ65842		0.013	0.05	0.88	21	0.20	4.11	52	1.2
ZZ65843		<0.005	0.06	1.38	11	<0.05	3.34	54	2.1
ZZ65844		<0.005	0.06	1.75	9	0.06	3.05	64	1.8
ZZ65845		<0.005	0.08	1.96	10	<0.05	3.70	66	2.0
ZZ65846		0.012	0.10	0.65	33	0.14	2.13	48	<0.5
ZZ65847		0.009	0.12	0.75	39	0.16	3.22	94	1.1
ZZ65848		0.010	0.10	0.97	24	0.13	5.16	98	2.0
ZZ65849		0.014	0.10	1.23	23	0.17	5.90	92	1.4
ZZ65850		0.010	0.07	0.57	16	0.10	1.84	22	<0.5
ZZ65851		0.011	0.14	0.69	41	0.13	2.26	39	<0.5
ZZ65852		0.018	0.15	0.70	50	0.21	1.97	30	<0.5
ZZ65853		<0.005	0.13	1.25	23	0.46	2.68	21	<0.5
ZZ65854		0.005	0.07	1.60	14	0.08	4.52	13	<0.5
ZZ65855		0.016	0.15	0.99	49	0.20	3.23	42	<0.5
ZZ65856		0.010	0.13	1.14	28	0.15	2.18	19	<0.5
ZZ65857		0.019	0.16	0.73	54	0.25	2.76	54	<0.5
ZZ65858		0.055	0.20	0.69	80	0.33	3.23	49	<0.5
ZZ65859		<0.005	0.08	1.69	13	0.06	5.31	92	2.2
ZZ65860		0.006	0.07	0.99	11	0.17	15.30	82	4.6
ZZ65861		<0.005	0.05	1.20	9	0.09	17.90	66	4.4
ZZ65862		0.005	0.06	1.26	13	0.08	19.50	90	4.4
ZZ65863		0.010	0.09	1.10	22	0.16	2.65	41	<0.5
ZZ65864		0.007	0.09	4.76	17	0.12	10.40	97	3.3
ZZ65865		0.015	0.09	0.93	30	0.21	2.73	45	<0.5
ZZ65866		0.013	0.09	1.67	25	0.77	4.50	62	1.0
ZZ65867		0.014	0.07	1.38	24	0.26	5.43	74	1.1
ZZ65868		0.009	0.11	1.84	22	0.16	6.51	80	1.4
ZZ65869		0.010	0.12	1.32	25	0.16	4.42	58	1.3
ZZ65870		0.008	0.13	1.83	24	0.18	7.68	83	1.5
ZZ65871		0.011	0.08	1.13	21	0.13	4.24	53	<0.5
ZZ65872		0.012	0.12	1.47	22	0.13	4.17	45	<0.5
ZZ65873		0.025	0.14	0.89	46	0.24	2.85	48	<0.5
ZZ65874		0.013	0.13	0.63	37	0.17	1.96	33	<0.5
ZZ65875		0.016	0.11	0.68	32	0.14	2.65	44	<0.5
ZZ65876		0.038	0.19	0.76	69	0.29	2.49	57	<0.5
ZZ65877		0.010	0.10	1.07	24	0.16	4.84	78	1.1
ZZ65878		0.020	0.18	1.02	43	0.24	2.80	29	<0.5
ZZ65879		0.009	0.11	0.76	27	0.13	2.81	54	0.6
ZZ65880		0.012	0.15	1.01	32	0.17	4.20	64	<0.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65881		0.34	0.004	0.04	1.25	192.0	<0.2	<10	50	0.29	1.11	0.04	0.19	35.8	9.3	18
ZZ65882		0.31	0.006	0.07	1.73	545	<0.2	<10	170	0.63	0.82	0.07	0.23	32.5	11.9	23
ZZ65883		0.35	0.003	0.05	0.73	54.1	<0.2	<10	70	0.13	0.30	0.04	0.08	33.0	3.5	10
ZZ65884		0.25	0.005	0.09	1.30	339	<0.2	<10	170	0.35	1.26	0.23	0.09	32.6	6.0	19
ZZ65885		0.29	0.003	0.09	0.91	152.5	<0.2	<10	80	0.20	0.83	0.07	0.10	27.3	4.0	15
ZZ65886		0.25	0.004	0.16	0.66	166.5	<0.2	<10	70	0.19	0.76	0.04	0.13	18.50	3.1	9
ZZ65887		0.28	0.006	0.21	1.32	300	<0.2	<10	100	0.40	1.29	0.06	0.27	38.2	7.9	19
ZZ65888		0.30	0.003	0.09	0.84	168.5	<0.2	<10	60	0.23	0.36	0.04	0.09	29.7	4.8	13
ZZ65889		0.34	0.004	0.13	1.63	298	<0.2	<10	200	0.63	1.30	0.10	0.23	44.4	11.5	20
ZZ65890		0.26	0.005	0.10	1.00	251	<0.2	<10	80	0.67	3.82	0.18	0.11	85.0	14.2	12
ZZ65891		0.28	0.003	0.12	0.72	120.5	<0.2	<10	60	0.17	0.50	0.04	0.12	44.2	4.8	11
ZZ65892		0.31	0.002	0.03	0.55	15.3	<0.2	<10	50	0.07	0.31	0.02	0.03	31.7	1.2	7
ZZ65893		0.36	0.003	0.11	1.34	24.2	<0.2	<10	70	0.24	0.34	0.05	0.13	24.6	4.3	21
ZZ65894		0.27	0.003	0.28	0.89	192.5	<0.2	<10	140	0.29	0.48	0.05	0.31	32.5	2.7	11
ZZ65895		0.32	0.006	0.13	1.22	116.5	<0.2	<10	90	0.52	0.44	0.14	0.36	32.2	17.9	20
ZZ65896		0.29	0.002	0.08	0.65	126.5	<0.2	<10	70	0.16	0.50	0.03	0.08	22.8	3.6	9
ZZ65897		0.23	0.002	0.08	0.84	115.0	<0.2	<10	80	0.18	0.71	0.04	0.09	37.9	3.1	12
ZZ65898		0.40	0.005	0.09	0.96	368	<0.2	<10	80	0.43	1.97	0.05	0.13	40.0	8.6	13
ZZ65899		0.27	0.003	0.12	0.56	138.5	<0.2	<10	40	0.20	0.73	0.03	0.08	21.0	2.9	7
ZZ65900		0.48	0.008	0.24	1.38	236	<0.2	<10	110	0.67	0.99	0.07	0.30	38.5	10.3	18
ZZ65901		0.45	0.024	0.22	1.55	409	<0.2	<10	150	0.67	1.34	0.06	0.30	51.3	15.9	21
ZZ65902		0.28	0.038	0.31	1.26	583	<0.2	<10	140	0.62	2.26	0.08	0.20	45.0	11.8	15
ZZ65903		0.35	0.008	0.09	1.07	492	<0.2	<10	110	0.37	1.60	0.06	0.17	52.3	9.7	15
ZZ65904		0.30	0.017	0.20	1.34	476	<0.2	<10	140	0.74	1.72	0.11	0.27	56.4	14.8	17
ZZ65905		0.33	0.004	0.08	1.16	79.3	<0.2	<10	110	0.37	0.42	0.07	0.18	33.7	5.4	18
ZZ65906		0.35	0.003	0.05	0.60	70.6	<0.2	<10	60	0.11	0.53	0.03	0.10	31.8	3.1	12
ZZ65907		0.31	0.005	0.09	1.18	161.5	<0.2	<10	70	0.50	0.44	0.08	0.22	53.6	17.7	17
ZZ65908		0.31	0.004	0.05	0.44	61.7	<0.2	<10	80	0.15	0.36	0.05	0.10	32.7	3.5	9
ZZ65909		0.40	0.007	0.15	1.00	485	<0.2	<10	90	0.41	1.27	0.04	0.17	63.8	8.1	14
ZZ65910		0.27	0.005	0.13	1.05	530	<0.2	<10	70	0.47	1.39	0.03	0.18	46.9	7.3	14
ZZ65911		0.23	0.007	0.25	1.17	638	<0.2	<10	130	0.89	1.64	0.15	0.35	73.1	15.8	15
ZZ65912		0.26	0.005	0.22	1.35	172.5	<0.2	<10	100	0.84	1.20	1.07	0.23	38.8	15.3	17
ZZ65913		0.24	0.010	0.26	1.35	241	<0.2	<10	70	0.75	1.01	0.62	0.20	39.7	14.3	13
ZZ65914		0.32	0.004	0.21	0.91	129.5	<0.2	<10	60	0.70	0.78	2.37	0.23	29.0	9.6	9
ZZ65915		0.30	0.005	0.24	1.22	110.0	<0.2	<10	80	0.65	0.78	1.01	0.18	43.4	10.8	14
ZZ65916		0.42	0.005	0.15	1.03	178.0	<0.2	<10	50	0.33	0.66	0.05	0.15	46.3	7.5	14
ZZ65917		0.45	0.006	0.17	0.81	87.8	<0.2	<10	70	0.54	0.55	0.40	0.24	46.3	12.5	10
ZZ65918		0.28	0.014	0.25	1.08	128.5	<0.2	<10	90	0.73	0.49	0.98	0.22	34.7	11.3	11
ZZ65919		0.34	0.012	0.25	1.44	285	<0.2	<10	130	0.74	0.70	0.18	0.30	62.2	15.5	22
ZZ65920		0.40	0.020	0.28	1.08	298	<0.2	<10	100	0.68	0.58	0.27	0.17	49.5	16.3	14



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ65881		1.50	16.1	4.07	5.23	0.09	0.03	0.02	0.027	0.04	17.3	9.1	0.17	459	1.36	0.01
ZZ65882		2.15	29.4	4.22	4.59	0.08	0.06	0.02	0.035	0.08	16.5	25.5	0.38	526	1.75	0.01
ZZ65883		1.95	11.2	1.49	4.78	0.06	<0.02	0.02	0.010	0.03	16.7	2.2	0.06	96	1.67	0.01
ZZ65884		2.75	17.7	2.54	5.00	0.07	<0.02	0.02	0.020	0.05	17.2	13.2	0.31	175	1.27	0.01
ZZ65885		1.44	11.3	2.35	5.51	0.06	<0.02	0.03	0.017	0.05	14.0	5.8	0.16	208	2.09	0.01
ZZ65886		1.55	12.3	1.78	2.43	<0.05	<0.02	0.04	0.019	0.04	9.3	3.9	0.08	235	1.03	0.02
ZZ65887		1.41	19.8	3.36	4.81	0.09	0.02	0.06	0.026	0.04	17.0	13.2	0.20	327	2.25	0.01
ZZ65888		2.40	18.8	2.50	4.28	0.06	<0.02	0.03	0.018	0.03	15.1	3.6	0.10	159	1.77	0.01
ZZ65889		2.22	27.3	3.88	5.02	0.10	0.03	0.03	0.030	0.06	22.6	17.5	0.28	607	2.15	0.01
ZZ65890		2.53	31.1	3.61	3.86	0.14	0.02	0.03	0.025	0.05	44.6	15.1	0.22	388	0.91	0.01
ZZ65891		1.45	15.8	2.44	5.58	0.08	<0.02	0.06	0.015	0.05	22.7	3.4	0.08	155	1.78	0.01
ZZ65892		1.64	4.8	0.71	7.14	0.05	<0.02	0.01	0.006	0.02	16.3	1.0	0.03	52	1.46	<0.01
ZZ65893		1.62	11.0	2.89	6.66	0.07	<0.02	0.05	0.024	0.04	12.4	9.9	0.21	194	2.30	0.01
ZZ65894		1.60	15.4	1.47	5.23	0.06	<0.02	0.06	0.017	0.03	17.3	2.1	0.06	89	1.55	0.01
ZZ65895		1.83	34.9	3.48	4.03	0.10	0.02	0.05	0.031	0.07	16.1	15.9	0.40	963	2.66	0.01
ZZ65896		1.69	10.3	1.69	3.34	0.05	<0.02	0.02	0.015	0.04	11.5	5.4	0.09	165	0.96	0.01
ZZ65897		2.24	13.3	1.62	5.13	0.07	<0.02	0.03	0.015	0.04	19.6	3.3	0.08	121	1.31	0.01
ZZ65898		1.95	23.5	2.86	3.59	0.09	0.02	0.02	0.020	0.04	20.5	12.1	0.21	359	1.39	0.01
ZZ65899		1.31	11.8	1.27	2.14	0.05	<0.02	0.02	0.010	0.03	10.6	4.7	0.08	77	0.67	0.02
ZZ65900		1.97	32.6	3.23	3.91	0.10	0.08	0.04	0.027	0.05	19.4	21.8	0.33	348	2.24	0.01
ZZ65901		2.81	31.7	3.93	4.91	0.11	0.05	0.05	0.033	0.07	25.5	21.9	0.35	705	2.42	0.01
ZZ65902		3.17	31.0	3.30	3.83	0.10	0.04	0.04	0.028	0.06	22.8	17.9	0.26	450	1.30	0.01
ZZ65903		1.89	23.8	3.66	4.26	0.12	0.02	0.02	0.025	0.05	26.7	16.2	0.25	567	1.45	0.01
ZZ65904		2.19	34.0	3.81	3.99	0.13	0.04	0.04	0.030	0.06	28.2	23.9	0.36	697	1.88	0.01
ZZ65905		1.82	13.8	2.57	5.65	0.07	<0.02	0.03	0.021	0.03	17.0	12.1	0.16	315	1.88	0.01
ZZ65906		1.31	10.6	1.54	7.35	0.07	<0.02	0.03	0.016	0.03	16.2	1.5	0.05	107	2.45	0.01
ZZ65907		1.01	25.5	4.22	3.69	0.12	0.06	0.02	0.025	0.04	26.5	31.4	0.32	914	0.72	0.01
ZZ65908		1.58	10.0	1.63	4.53	0.07	<0.02	0.02	0.011	0.04	16.8	2.0	0.05	220	1.66	0.01
ZZ65909		1.92	22.2	3.54	4.09	0.12	0.03	0.03	0.024	0.04	32.9	14.7	0.21	311	1.12	0.01
ZZ65910		1.89	18.4	3.60	4.19	0.10	0.02	0.03	0.024	0.04	23.9	13.2	0.17	527	1.44	0.01
ZZ65911		3.71	33.3	4.02	3.81	0.13	0.05	0.03	0.032	0.05	37.3	19.4	0.25	670	0.95	0.01
ZZ65912		1.90	34.6	3.28	3.88	0.11	0.13	0.05	0.030	0.05	19.8	25.9	0.39	585	0.72	0.01
ZZ65913		1.56	32.7	3.52	3.50	0.12	0.13	0.03	0.035	0.04	20.9	26.3	0.46	623	0.41	0.01
ZZ65914		0.96	23.9	2.91	2.01	0.09	0.14	0.03	0.030	0.04	15.6	13.5	0.27	285	0.53	0.01
ZZ65915		1.03	31.7	3.20	3.41	0.11	0.11	0.03	0.030	0.04	23.8	27.1	0.35	418	0.54	0.01
ZZ65916		1.67	23.1	2.76	3.83	0.10	<0.02	0.04	0.022	0.05	23.6	12.6	0.22	489	1.22	0.01
ZZ65917		0.85	30.8	3.03	2.29	0.12	0.10	0.02	0.027	0.03	23.1	15.8	0.24	439	0.91	0.01
ZZ65918		1.31	28.4	3.71	2.76	0.11	0.17	0.04	0.039	0.05	18.9	13.8	0.24	590	0.66	0.01
ZZ65919		2.14	27.0	3.53	4.63	0.12	0.08	0.04	0.034	0.06	33.0	28.6	0.41	581	1.07	0.01
ZZ65920		2.95	32.9	4.04	3.28	0.14	0.10	0.04	0.032	0.05	27.2	15.8	0.29	674	0.76	0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65881		1.22	15.4	530	21.1	6.1	<0.001	0.01	2.40	1.7	0.5	0.6	5.9	0.02	0.05	4.9
ZZ65882		1.00	24.0	500	22.3	13.5	<0.001	0.01	2.12	2.6	0.7	0.5	11.6	<0.01	0.05	5.6
ZZ65883		0.63	8.7	260	6.8	7.6	<0.001	<0.01	0.86	0.8	0.2	0.8	6.7	<0.01	0.03	0.6
ZZ65884		0.42	18.9	870	11.2	10.2	<0.001	0.04	2.24	0.8	0.3	0.6	20.6	<0.01	0.04	0.4
ZZ65885		0.81	10.1	440	14.7	10.3	<0.001	0.02	1.07	1.0	0.4	0.7	9.1	<0.01	0.04	0.4
ZZ65886		0.31	8.1	940	9.9	8.3	<0.001	0.06	1.20	0.3	0.3	0.3	5.0	<0.01	0.03	<0.2
ZZ65887		0.98	20.7	660	16.6	9.2	<0.001	0.02	1.78	1.7	0.7	0.6	10.0	<0.01	0.05	2.3
ZZ65888		0.39	11.9	690	11.7	6.8	<0.001	0.04	2.80	0.4	0.4	0.6	6.5	<0.01	0.04	<0.2
ZZ65889		0.74	22.3	840	25.6	9.9	<0.001	0.03	2.96	1.7	0.8	0.6	12.1	<0.01	0.05	2.0
ZZ65890		0.29	22.3	1200	13.4	8.5	<0.001	0.07	4.05	1.2	0.6	0.6	22.1	<0.01	0.04	2.5
ZZ65891		0.90	11.7	570	8.7	8.5	<0.001	0.07	2.71	0.9	0.6	0.7	5.8	<0.01	0.05	1.0
ZZ65892		0.72	3.3	170	6.0	4.7	<0.001	0.03	0.59	0.6	0.3	0.9	5.0	<0.01	0.03	0.9
ZZ65893		1.39	11.4	560	15.1	6.8	<0.001	0.06	1.06	1.4	0.9	0.7	7.7	<0.01	0.05	0.8
ZZ65894		0.24	7.9	1120	10.0	7.3	<0.001	0.08	0.91	0.2	0.7	0.7	7.4	<0.01	0.04	<0.2
ZZ65895		0.52	30.0	1270	16.9	8.3	<0.001	0.05	3.17	1.7	1.4	0.3	16.6	<0.01	0.05	1.2
ZZ65896		0.27	8.0	740	12.5	6.9	<0.001	0.06	1.56	0.3	0.4	0.3	5.2	<0.01	0.03	<0.2
ZZ65897		0.28	8.2	810	12.7	8.2	<0.001	0.06	1.71	0.3	0.7	0.7	6.5	<0.01	0.04	<0.2
ZZ65898		0.37	17.3	820	16.6	7.1	<0.001	0.06	3.34	0.9	0.7	0.4	9.6	<0.01	0.04	1.2
ZZ65899		0.19	7.1	740	8.0	5.0	<0.001	0.06	1.64	0.2	0.4	0.2	5.5	<0.01	0.02	<0.2
ZZ65900		0.57	25.6	760	21.6	8.3	<0.001	0.05	3.12	1.9	1.0	0.4	10.9	<0.01	0.05	3.5
ZZ65901		0.48	27.5	1100	26.3	12.0	<0.001	0.06	3.63	1.7	1.0	0.5	11.2	0.01	0.06	2.2
ZZ65902		0.37	23.0	1010	24.5	10.1	<0.001	0.07	3.92	1.3	0.9	0.4	13.0	<0.01	0.04	1.8
ZZ65903		0.33	20.1	830	23.5	7.4	<0.001	0.06	4.34	1.0	0.7	0.4	8.7	<0.01	0.04	1.6
ZZ65904		0.45	30.2	760	31.1	8.7	<0.001	0.04	4.91	2.0	1.0	0.3	13.4	<0.01	0.05	4.8
ZZ65905		0.64	12.5	600	12.8	9.2	<0.001	0.05	1.49	0.8	0.7	0.7	7.8	<0.01	0.05	0.3
ZZ65906		0.67	8.9	370	12.1	5.0	<0.001	0.04	1.22	0.7	0.5	1.2	6.5	<0.01	0.04	<0.2
ZZ65907		0.23	32.9	450	26.4	5.3	<0.001	0.04	2.23	2.0	0.6	0.2	6.7	<0.01	0.04	6.6
ZZ65908		1.02	7.8	220	8.2	11.6	<0.001	0.04	1.41	0.8	0.4	0.8	6.5	<0.01	0.03	1.2
ZZ65909		0.56	19.0	440	19.7	8.9	<0.001	0.06	4.93	1.4	0.4	0.4	6.1	<0.01	0.05	4.8
ZZ65910		0.73	15.9	480	29.6	10.1	<0.001	0.06	4.43	1.1	0.6	0.5	6.1	<0.01	0.05	2.0
ZZ65911		0.37	30.9	770	27.6	8.2	<0.001	0.06	7.89	1.8	0.5	0.4	16.1	<0.01	0.06	4.6
ZZ65912		0.33	28.4	970	33.5	5.9	<0.001	0.12	5.15	2.2	1.1	0.3	56.3	0.01	0.05	2.7
ZZ65913		0.13	31.6	490	37.9	3.9	<0.001	0.07	6.82	3.1	1.2	0.2	35.7	<0.01	0.03	3.9
ZZ65914		0.12	23.3	710	25.3	3.7	<0.001	0.10	4.40	1.9	1.1	0.2	128.5	<0.01	0.04	1.6
ZZ65915		0.20	27.4	700	30.1	3.9	<0.001	0.08	3.05	2.0	1.1	0.2	67.0	0.01	0.03	2.0
ZZ65916		0.36	16.7	1330	17.3	8.1	<0.001	0.09	2.84	0.9	0.7	0.4	7.3	<0.01	0.03	0.6
ZZ65917		0.25	30.3	640	24.5	2.8	<0.001	0.04	4.17	3.0	0.9	0.2	28.7	0.01	0.04	7.6
ZZ65918		0.31	26.8	750	30.7	5.3	<0.001	0.10	27.0	3.3	1.4	0.2	60.7	0.01	0.05	3.1
ZZ65919		0.64	28.8	950	23.5	8.9	<0.001	0.06	9.91	2.4	0.7	0.5	21.0	<0.01	0.05	4.2
ZZ65920		0.45	29.6	670	19.5	8.0	<0.001	0.06	8.74	3.1	0.9	0.3	19.3	<0.01	0.05	4.7

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65881		0.022	0.09	0.84	43	0.19	3.43	42	1.0
ZZ65882		0.013	0.17	0.95	45	0.24	4.25	81	1.7
ZZ65883		0.021	0.14	0.56	48	0.20	2.11	31	<0.5
ZZ65884		0.016	0.15	1.20	36	0.19	5.54	46	<0.5
ZZ65885		0.028	0.14	0.58	51	0.23	2.09	39	<0.5
ZZ65886		0.010	0.08	0.68	19	0.11	2.17	26	<0.5
ZZ65887		0.021	0.15	0.78	46	0.22	3.81	61	0.6
ZZ65888		0.018	0.11	0.89	42	0.21	2.26	40	<0.5
ZZ65889		0.013	0.18	1.23	43	0.22	5.50	75	0.8
ZZ65890		0.010	0.10	2.41	17	0.11	4.99	50	<0.5
ZZ65891		0.023	0.11	0.68	49	0.27	2.26	43	<0.5
ZZ65892		0.018	0.15	0.38	47	0.18	1.59	15	<0.5
ZZ65893		0.025	0.18	0.66	58	0.31	2.33	45	<0.5
ZZ65894		0.007	0.12	0.85	30	0.14	3.11	28	<0.5
ZZ65895		0.020	0.14	1.59	34	0.18	6.35	100	0.6
ZZ65896		0.010	0.09	0.54	22	0.11	1.64	30	<0.5
ZZ65897		0.009	0.13	0.65	31	0.16	2.13	27	<0.5
ZZ65898		0.012	0.10	1.05	22	0.12	3.30	54	0.5
ZZ65899		0.009	0.07	0.76	12	0.07	1.70	21	<0.5
ZZ65900		0.011	0.14	1.33	30	0.22	5.21	87	2.1
ZZ65901		0.011	0.16	1.81	35	0.21	6.00	104	1.1
ZZ65902		0.010	0.14	2.00	22	0.18	5.27	72	0.8
ZZ65903		0.010	0.10	1.22	22	0.18	4.31	64	0.5
ZZ65904		0.010	0.12	1.61	26	0.14	7.32	99	1.1
ZZ65905		0.021	0.13	0.81	49	0.27	3.13	49	<0.5
ZZ65906		0.027	0.14	0.66	71	0.28	2.08	36	<0.5
ZZ65907		0.006	0.05	0.90	13	0.08	5.78	114	1.8
ZZ65908		0.033	0.09	0.49	48	0.27	2.02	35	<0.5
ZZ65909		0.010	0.09	1.17	24	0.19	2.99	59	0.9
ZZ65910		0.015	0.11	1.08	28	0.28	2.84	59	<0.5
ZZ65911		0.008	0.07	2.42	18	0.12	4.42	111	1.5
ZZ65912		0.007	0.06	1.75	17	0.09	12.25	87	3.5
ZZ65913		<0.005	0.05	1.01	11	0.17	19.90	80	3.8
ZZ65914		<0.005	0.04	0.91	8	0.06	16.80	65	3.9
ZZ65915		0.005	0.04	1.27	14	0.28	15.40	75	3.1
ZZ65916		0.014	0.08	1.36	24	0.16	3.76	51	<0.5
ZZ65917		0.011	0.04	1.15	12	0.10	13.05	76	5.0
ZZ65918		0.007	0.06	2.45	15	0.12	19.05	94	5.2
ZZ65919		0.017	0.10	1.98	26	0.22	7.62	88	2.1
ZZ65920		0.012	0.08	2.31	19	0.14	12.25	76	2.7



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66759		0.18	0.008	0.03	0.19	200	<0.2	<10	20	0.10	0.65	0.01	0.04	42.7	2.2	3
ZZ66760		0.14	0.018	0.51	1.41	944	<0.2	<10	280	1.37	1.47	1.47	0.53	28.7	8.6	19
ZZ66761		0.13	0.006	0.09	0.65	170.5	<0.2	<10	150	0.96	0.73	0.08	0.26	23.2	3.0	8
ZZ66762		0.12	0.008	0.32	1.01	401	<0.2	<10	200	1.08	0.98	0.42	0.32	25.5	5.2	12
ZZ66763		0.18	0.003	0.05	0.61	49.1	<0.2	<10	60	0.16	0.58	0.03	0.12	26.5	2.7	11
ZZ66764		0.15	0.003	0.04	0.82	150.0	<0.2	<10	70	0.27	1.03	0.11	0.13	39.6	3.7	12
ZZ66765		0.17	0.003	0.05	1.26	574	<0.2	<10	250	0.40	1.61	0.61	0.44	23.9	10.2	16
ZZ66766		0.17	0.004	0.08	0.72	150.5	<0.2	<10	160	0.26	0.44	0.53	0.24	22.1	4.5	12
ZZ66767		0.24	0.007	0.28	0.75	198.5	<0.2	<10	40	0.18	3.30	0.03	0.19	22.5	2.5	11
ZZ66768		0.20	0.017	0.58	0.93	943	<0.2	<10	50	0.36	13.50	0.06	1.01	26.3	5.1	14
ZZ66769		0.25	0.017	0.73	2.03	705	<0.2	<10	160	1.05	8.04	0.88	0.39	51.9	12.7	33
ZZ66770		0.22	0.006	1.33	1.25	461	<0.2	<10	140	0.84	5.12	0.93	2.49	57.5	9.6	17
ZZ66771		0.15	0.007	0.24	0.85	81.1	<0.2	<10	100	0.49	0.51	1.41	0.49	34.2	7.9	13
ZZ66772		0.38	0.004	0.24	1.11	205	<0.2	<10	90	0.60	1.17	0.22	0.19	45.9	11.2	15
ZZ66773		0.20	0.005	0.18	0.64	24.2	<0.2	<10	40	0.89	1.30	0.29	0.36	34.5	25.6	6
ZZ66774		0.14	0.009	0.36	0.65	160.0	<0.2	<10	90	0.76	0.67	1.50	0.38	21.4	13.6	10
ZZ66775		0.18	0.004	0.11	0.87	68.7	<0.2	<10	140	0.60	0.47	0.58	0.75	28.6	12.5	15
ZZ66776		0.26	0.004	0.21	0.62	212	<0.2	<10	90	0.60	0.60	0.88	0.26	31.0	11.4	10
ZZ66777		0.23	0.021	0.26	0.84	351	<0.2	<10	120	1.12	0.73	0.74	0.61	42.5	12.8	13
ZZ66778		0.20	0.029	0.33	1.67	856	<0.2	<10	180	0.84	0.68	0.31	0.45	35.4	11.8	24
ZZ69974		0.23	0.003	0.13	1.16	501	<0.2	<10	100	0.29	0.87	0.10	0.13	39.3	5.7	14
ZZ69975		0.23	0.007	0.33	1.31	318	<0.2	<10	140	0.31	1.40	0.08	0.07	21.4	3.3	16
ZZ69976		0.25	0.010	0.07	0.62	618	<0.2	<10	80	0.18	2.10	0.06	0.15	34.3	8.7	12
ZZ69977		0.30	0.007	0.14	0.93	611	<0.2	<10	50	0.35	1.64	0.10	0.21	43.9	11.2	13
ZZ69978		0.28	0.007	0.05	0.98	761	<0.2	<10	60	0.32	2.95	0.07	0.21	43.2	9.5	13
ZZ69979		0.25	0.006	0.12	1.08	257	<0.2	<10	60	0.62	1.00	0.12	0.10	126.0	20.0	12
ZZ69980		0.41	0.002	0.07	0.76	141.5	<0.2	<10	80	0.16	0.58	0.04	0.11	31.1	4.1	12
ZZ69693		0.19	0.003	0.08	0.72	207	<0.2	<10	60	0.25	1.65	0.05	0.16	31.6	12.2	12
ZZ69694		0.24	0.003	0.33	0.92	258	<0.2	<10	80	0.24	1.18	0.04	0.09	22.4	2.7	9
ZZ69695		0.30	0.007	0.24	1.61	934	<0.2	<10	130	0.44	1.99	0.08	0.15	28.6	7.9	22
ZZ69696		0.32	0.002	0.18	0.93	284	<0.2	<10	100	0.21	4.20	0.06	0.09	28.7	3.3	13
ZZ69697		0.34	0.007	0.11	0.86	334	<0.2	<10	80	0.21	2.30	0.05	0.10	31.8	4.2	13
ZZ69698		0.34	0.004	0.14	1.25	618	<0.2	<10	110	0.24	0.92	0.10	0.09	27.2	6.6	23
ZZ69699		0.30	0.006	0.05	1.24	617	<0.2	<10	80	0.41	2.06	0.09	0.20	51.3	14.2	16
ZZ69700		0.23	0.004	0.11	1.04	363	<0.2	<10	130	0.39	1.06	0.09	0.23	32.3	6.1	15

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66759		1.22	17.7	1.36	2.59	0.08	<0.02	0.01	0.007	0.03	22.3	0.7	0.01	58	2.51	0.01
ZZ66760		1.47	28.8	2.42	4.02	0.09	0.03	0.06	0.037	0.06	16.4	14.3	0.33	565	2.37	0.02
ZZ66761		0.90	10.1	1.18	3.64	0.05	<0.02	0.03	0.017	0.04	12.3	2.1	0.05	133	2.93	0.01
ZZ66762		1.54	13.1	1.78	4.47	0.07	<0.02	0.05	0.023	0.05	16.2	6.1	0.13	626	3.69	0.01
ZZ66763		1.39	11.0	1.65	5.19	0.06	<0.02	0.01	0.013	0.04	13.6	2.3	0.07	106	3.17	0.01
ZZ66764		1.38	10.5	1.98	4.42	0.05	<0.02	0.02	0.014	0.04	19.7	8.3	0.13	160	2.79	<0.01
ZZ66765		3.46	20.9	5.23	5.66	0.06	<0.02	0.03	0.019	0.09	9.7	14.6	0.75	4850	6.00	<0.01
ZZ66766		1.62	12.1	1.56	4.38	<0.05	<0.02	0.03	0.015	0.06	9.3	4.1	0.10	629	1.83	<0.01
ZZ66767		1.58	13.2	1.73	4.19	<0.05	<0.02	0.03	0.024	0.03	9.8	2.3	0.06	215	1.48	<0.01
ZZ66768		2.45	43.6	2.94	4.29	<0.05	0.02	0.04	0.111	0.05	11.5	6.7	0.15	277	2.57	<0.01
ZZ66769		5.95	179.5	4.07	6.03	0.07	0.12	0.04	0.053	0.16	29.1	35.0	0.72	617	0.76	0.04
ZZ66770		3.61	33.0	3.10	3.23	0.08	0.08	0.06	0.089	0.08	34.1	18.0	0.31	643	0.55	<0.01
ZZ66771		0.80	17.5	2.79	2.22	0.05	0.07	0.07	0.034	0.03	17.5	11.8	0.22	746	0.55	<0.01
ZZ66772		2.51	31.8	3.31	3.35	0.06	0.08	0.02	0.027	0.05	25.7	18.7	0.25	416	0.94	<0.01
ZZ66773		2.10	63.3	5.68	1.63	<0.05	0.09	0.03	0.037	0.03	18.5	18.7	0.17	608	3.58	<0.01
ZZ66774		1.48	41.4	3.96	1.77	<0.05	0.08	0.08	0.035	0.04	10.8	6.8	0.13	810	1.05	<0.01
ZZ66775		1.84	28.8	4.08	2.97	<0.05	0.06	0.05	0.042	0.04	11.3	11.2	0.18	1060	1.18	<0.01
ZZ66776		0.96	27.4	3.88	1.62	0.05	0.08	0.08	0.033	0.04	14.8	4.4	0.13	771	0.80	<0.01
ZZ66777		1.21	28.3	3.34	2.34	0.05	0.08	0.04	0.047	0.04	20.5	11.2	0.21	764	1.37	<0.01
ZZ66778		3.68	24.5	3.61	5.12	0.05	0.02	0.08	0.040	0.07	15.7	17.5	0.36	945	1.44	<0.01
ZZ69974		3.80	15.1	3.44	4.40	0.05	<0.02	0.03	0.017	0.05	20.1	10.4	0.22	308	1.10	<0.01
ZZ69975		3.82	16.2	2.30	4.62	<0.05	<0.02	0.07	0.017	0.05	10.2	4.8	0.12	119	1.38	<0.01
ZZ69976		2.57	18.0	3.04	3.63	0.05	<0.02	0.02	0.013	0.05	17.4	3.8	0.09	875	1.50	<0.01
ZZ69977		1.62	21.3	3.32	2.81	0.06	0.02	0.01	0.017	0.04	22.3	17.0	0.29	597	1.16	<0.01
ZZ69978		1.55	20.2	3.71	3.23	0.05	0.02	0.02	0.018	0.04	21.3	15.1	0.25	456	1.14	<0.01
ZZ69979		4.96	39.3	3.23	3.45	0.13	0.02	0.02	0.020	0.08	66.2	17.1	0.26	572	0.63	<0.01
ZZ69980		1.53	10.8	2.19	6.18	<0.05	<0.02	0.02	0.011	0.04	16.4	4.7	0.12	240	1.88	<0.01
ZZ69693		1.88	24.0	3.13	2.94	<0.05	<0.02	0.02	0.020	0.07	15.8	7.8	0.14	1140	0.93	<0.01
ZZ69694		1.80	12.5	1.55	3.20	<0.05	<0.02	0.02	0.010	0.04	10.8	4.1	0.07	99	0.89	<0.01
ZZ69695		3.61	23.4	3.63	5.72	<0.05	<0.02	0.05	0.027	0.07	14.1	14.5	0.25	402	1.95	<0.01
ZZ69696		1.80	14.0	2.09	5.05	<0.05	<0.02	0.04	0.016	0.04	15.1	3.3	0.09	118	1.48	<0.01
ZZ69697		2.02	10.6	2.20	4.92	<0.05	<0.02	0.01	0.014	0.04	16.9	5.8	0.12	253	1.45	<0.01
ZZ69698		2.37	18.6	3.62	6.65	<0.05	<0.02	0.03	0.019	0.06	13.8	8.1	0.26	339	2.36	<0.01
ZZ69699		4.85	21.7	3.32	3.83	0.05	0.06	0.02	0.021	0.07	26.3	16.1	0.30	921	1.38	<0.01
ZZ69700		3.33	20.8	2.62	4.30	<0.05	<0.02	0.02	0.019	0.06	17.0	6.9	0.13	540	1.55	<0.01

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Project: Lance

CERTIFICATE OF ANALYSIS WH12150393

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66759		0.24	6.2	170	5.2	6.1	<0.001	0.03	14.35	0.6	0.3	0.6	2.0	<0.01	0.03	2.2
ZZ66760		1.03	21.4	830	22.5	15.0	<0.001	0.08	8.11	2.1	1.1	0.6	57.8	<0.01	0.03	1.4
ZZ66761		0.39	6.2	660	9.0	6.2	<0.001	0.06	1.65	0.5	0.5	0.7	9.5	<0.01	0.03	<0.2
ZZ66762		0.60	10.2	770	17.3	14.4	<0.001	0.08	2.59	0.7	0.7	0.7	25.8	<0.01	0.03	<0.2
ZZ66763		0.64	7.5	360	12.3	10.5	<0.001	0.04	0.94	0.7	0.3	0.9	5.7	<0.01	0.04	0.3
ZZ66764		0.58	10.4	330	11.5	11.5	<0.001	0.02	2.32	1.1	0.2	1.1	9.6	<0.01	0.05	2.1
ZZ66765		0.42	11.0	870	26.3	21.1	0.001	0.05	3.16	1.0	0.5	1.4	38.7	<0.01	0.07	0.6
ZZ66766		0.38	9.0	670	10.4	16.4	0.001	0.05	1.78	0.4	0.2	0.7	30.3	<0.01	0.05	<0.2
ZZ66767		0.63	6.4	440	58.7	7.0	0.001	0.03	12.65	0.4	0.3	0.6	5.4	<0.01	0.05	0.2
ZZ66768		1.45	11.4	440	335	8.5	<0.001	0.03	105.5	1.0	0.5	0.7	11.4	<0.01	0.30	1.1
ZZ66769		0.81	35.6	520	48.0	28.8	<0.001	0.04	10.20	4.4	1.1	1.7	52.3	<0.01	0.09	6.2
ZZ66770		0.34	25.0	530	103.5	12.4	<0.001	0.06	6.78	2.7	1.1	0.5	52.0	<0.01	0.03	2.5
ZZ66771		0.23	19.7	1050	30.4	4.8	0.001	0.11	1.97	2.0	0.7	0.2	82.9	<0.01	0.03	1.1
ZZ66772		0.32	27.8	720	21.6	7.7	0.001	0.03	3.80	2.3	1.1	0.4	16.6	<0.01	0.03	3.1
ZZ66773		0.08	71.5	510	19.5	2.9	0.001	0.04	2.62	3.4	1.2	0.2	17.3	<0.01	0.11	6.5
ZZ66774		0.25	34.4	1190	28.6	4.7	0.001	0.13	2.83	1.9	1.4	0.3	66.0	<0.01	0.06	0.9
ZZ66775		0.33	27.6	1210	41.6	6.6	0.001	0.08	2.48	1.9	1.0	0.3	30.7	<0.01	0.07	1.2
ZZ66776		0.26	24.2	890	31.0	4.3	<0.001	0.08	4.87	2.4	0.7	0.2	40.2	<0.01	0.07	2.1
ZZ66777		0.42	31.3	490	27.9	5.1	<0.001	0.05	12.30	3.1	0.8	0.3	40.6	<0.01	0.05	3.2
ZZ66778		0.62	24.9	970	36.1	13.8	0.001	0.06	9.75	2.1	13.8	0.8	25.8	<0.01	0.06	1.1
ZZ69974		0.65	13.5	480	11.2	11.8	0.001	0.03	1.69	1.4	0.3	0.5	10.0	<0.01	0.04	3.7
ZZ69975		0.37	9.9	1360	14.0	9.6	0.001	0.09	1.33	0.3	0.5	0.6	9.1	<0.01	0.04	0.2
ZZ69976		0.36	12.9	510	14.1	12.3	0.001	0.04	2.18	0.8	0.4	0.5	7.7	<0.01	0.02	0.5
ZZ69977		0.28	23.0	850	19.4	5.3	0.001	0.02	3.24	1.3	0.8	0.2	11.8	<0.01	0.04	3.6
ZZ69978		0.43	19.8	520	19.2	7.1	<0.001	0.02	4.16	1.5	0.7	0.3	8.2	<0.01	0.07	6.2
ZZ69979		0.19	32.7	700	12.2	8.7	<0.001	0.01	1.91	1.8	0.5	0.3	18.9	<0.01	0.03	12.5
ZZ69980		0.74	10.0	330	10.6	8.9	<0.001	0.02	1.31	1.0	0.2	0.7	6.8	<0.01	0.03	1.0
ZZ69693		0.49	21.3	480	10.5	7.4	0.001	0.03	1.67	1.3	0.3	0.4	6.0	<0.01	0.03	4.1
ZZ69694		0.31	7.2	920	9.0	7.0	<0.001	0.06	0.93	0.3	0.5	0.4	6.1	<0.01	0.03	0.3
ZZ69695		0.45	18.8	930	16.6	12.7	0.001	0.05	1.88	0.8	0.4	0.7	11.1	<0.01	0.07	0.4
ZZ69696		0.37	9.9	920	13.9	7.2	<0.001	0.06	1.46	0.3	0.2	0.6	8.7	<0.01	0.05	0.2
ZZ69697		0.46	9.6	430	11.0	8.9	<0.001	0.03	1.88	0.6	0.7	0.6	6.7	<0.01	0.05	0.3
ZZ69698		0.96	16.9	500	15.8	9.8	<0.001	0.04	1.92	1.3	0.7	0.7	11.9	<0.01	0.05	0.6
ZZ69699		0.39	20.3	790	16.4	8.8	<0.001	0.02	2.66	1.8	0.5	0.4	9.8	<0.01	0.05	6.0
ZZ69700		0.43	15.0	730	12.0	10.7	<0.001	0.04	1.70	0.7	0.8	0.5	10.5	<0.01	0.06	0.5

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CERTIFICATE OF ANALYSIS WH12150393

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66759		0.005	0.08	0.59	18	0.89	2.10	28	<0.5
ZZ66760		0.024	0.15	3.02	31	4.41	13.30	85	0.7
ZZ66761		0.014	0.10	0.96	25	3.14	4.31	31	<0.5
ZZ66762		0.016	0.15	1.80	34	4.35	7.91	55	<0.5
ZZ66763		0.017	0.11	0.53	42	1.00	1.82	36	<0.5
ZZ66764		0.011	0.14	0.51	27	3.63	2.22	41	<0.5
ZZ66765		0.026	0.19	2.02	48	1.65	3.06	84	0.5
ZZ66766		0.022	0.14	0.59	42	0.38	2.28	57	<0.5
ZZ66767		0.021	0.14	0.70	37	0.80	1.62	46	<0.5
ZZ66768		0.020	0.15	1.21	34	2.95	2.88	124	<0.5
ZZ66769		0.036	0.27	1.31	36	5.97	19.25	115	3.9
ZZ66770		0.013	0.17	1.38	22	0.28	22.3	231	2.1
ZZ66771		0.010	0.06	1.82	17	0.12	15.70	64	1.7
ZZ66772		0.011	0.10	1.96	23	0.21	15.50	61	2.2
ZZ66773		<0.005	0.04	2.18	6	0.07	13.05	102	3.7
ZZ66774		0.007	0.06	2.14	14	0.10	18.75	76	2.2
ZZ66775		0.016	0.09	1.08	25	0.16	8.20	141	1.5
ZZ66776		0.011	0.06	1.35	17	0.13	16.05	79	2.1
ZZ66777		0.015	0.07	1.19	22	0.66	13.95	101	3.2
ZZ66778		0.023	0.16	2.11	44	0.27	9.58	165	0.5
ZZ69974		0.014	0.13	0.79	28	0.18	2.93	45	<0.5
ZZ69975		0.008	0.22	1.44	37	0.21	3.74	36	<0.5
ZZ69976		0.016	0.12	0.63	40	0.20	2.40	55	<0.5
ZZ69977		0.011	0.06	0.97	18	0.22	4.34	63	0.9
ZZ69978		0.010	0.08	0.76	21	0.23	3.50	56	0.9
ZZ69979		0.005	0.11	1.64	14	0.08	5.85	50	0.6
ZZ69980		0.027	0.15	0.51	54	0.28	2.01	43	<0.5
ZZ69693		0.015	0.10	0.96	22	0.16	3.38	44	<0.5
ZZ69694		0.010	0.10	0.88	22	0.19	2.27	21	<0.5
ZZ69695		0.013	0.21	1.36	48	0.27	3.90	65	<0.5
ZZ69696		0.010	0.12	0.73	39	0.20	2.24	31	<0.5
ZZ69697		0.021	0.12	0.52	38	0.20	2.11	35	<0.5
ZZ69698		0.034	0.21	0.85	61	0.31	3.23	63	<0.5
ZZ69699		0.011	0.09	1.13	24	0.15	4.39	66	1.5
ZZ69700		0.014	0.11	1.03	33	0.15	5.13	42	<0.5



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CERTIFICATE OF ANALYSIS WH12150393

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



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CERTIFICATE WH12162746

Project: Lance
 P.O. No.:
 This report is for 214 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

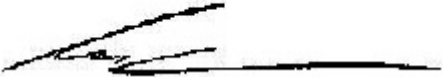
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

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

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

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12162746

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64121		0.30	0.003	0.18	1.76	136.0	<0.2	<10	40	0.67	0.55	0.12	0.09	33.8	21.6	19
ZZ64122		0.21	0.002	0.15	1.77	83.3	<0.2	<10	40	0.70	0.51	0.10	0.10	53.8	18.6	20
ZZ64123		0.31	0.004	0.12	1.70	78.4	<0.2	<10	40	0.62	0.46	0.13	0.09	42.8	20.2	19
ZZ64124		0.30	0.004	0.10	1.04	149.0	<0.2	<10	50	0.51	0.47	0.06	0.15	34.5	16.0	11
ZZ64125		0.34	0.002	0.08	1.37	45.2	<0.2	<10	60	0.52	0.33	0.10	0.13	63.6	12.0	17
ZZ64126		0.28	0.003	0.10	1.75	54.8	<0.2	<10	70	0.61	0.45	0.06	0.11	48.7	14.9	20
ZZ64127		0.29	0.002	0.13	1.49	49.4	<0.2	<10	50	0.56	0.47	0.06	0.12	43.5	16.5	19
ZZ64128		0.25	0.003	0.10	0.72	86.2	<0.2	<10	40	0.45	0.39	0.05	0.07	35.7	13.0	9
ZZ64129		0.21	0.003	0.17	2.06	44.2	<0.2	<10	40	0.97	0.59	0.08	0.23	35.4	20.6	22
ZZ64130		0.24	0.002	0.11	1.69	84.4	<0.2	<10	50	0.70	0.49	0.09	0.07	72.4	18.6	18
ZZ64131		0.22	0.004	0.20	1.33	274	<0.2	<10	80	0.55	0.39	0.10	0.25	46.7	15.1	16
ZZ64132		0.19	0.002	0.33	1.53	72.5	<0.2	<10	30	0.76	0.52	0.11	0.05	104.0	24.6	16
ZZ64133		0.20	0.005	0.24	1.56	239	<0.2	<10	50	1.02	0.73	0.14	0.20	86.3	40.1	16
ZZ64134		0.25	0.003	0.35	1.83	317	<0.2	<10	50	0.99	0.83	0.15	0.25	74.9	44.0	20
ZZ64135		0.25	0.002	0.24	1.79	169.5	<0.2	<10	50	0.99	0.58	0.12	0.10	75.4	39.6	20
ZZ64136		0.25	0.002	0.14	1.54	149.0	<0.2	<10	40	0.82	0.54	0.14	0.11	56.9	25.9	17
ZZ64137		0.27	0.004	0.18	1.34	83.7	<0.2	<10	40	0.65	0.51	0.11	0.08	47.2	17.0	15
ZZ64138		0.27	0.002	0.20	1.35	61.3	<0.2	<10	50	0.64	0.49	0.07	0.07	50.0	14.6	15
ZZ64139		0.33	0.002	0.12	1.17	89.4	<0.2	<10	80	0.49	0.45	0.06	0.10	22.0	10.9	13
ZZ64140		0.26	0.013	0.24	1.03	662	<0.2	<10	40	0.55	0.47	0.06	0.30	53.7	17.8	10
ZZ64141		0.26	0.006	0.11	1.13	52.2	<0.2	<10	50	0.57	0.42	0.17	0.10	85.5	11.6	14
ZZ64142		0.29	0.004	0.16	1.37	122.5	<0.2	<10	60	0.65	0.64	0.11	0.11	83.0	11.3	15
ZZ64143		0.21	0.006	1.14	0.53	117.0	<0.2	<10	50	0.78	0.58	0.32	0.07	59.0	21.2	6
ZZ64144		0.31	0.003	0.15	1.48	283	<0.2	<10	50	0.49	0.88	0.02	0.12	88.3	10.4	17
ZZ64145		0.32	0.003	0.08	1.54	194.0	<0.2	<10	50	0.57	0.60	0.04	0.11	81.1	13.3	16
ZZ64146		0.26	0.004	0.27	1.63	277	<0.2	<10	60	0.95	1.44	0.20	0.07	94.4	27.6	18
ZZ64147		0.23	0.007	0.23	0.91	445	<0.2	<10	80	0.59	0.55	0.21	0.34	64.2	11.4	13
ZZ64148		0.18	0.002	0.12	1.09	111.0	<0.2	<10	60	0.57	0.48	0.10	0.12	71.9	13.0	15
ZZ64149		0.23	0.003	0.14	0.96	122.0	<0.2	<10	80	0.26	0.43	0.16	0.11	39.6	6.9	14
ZZ64150		0.21	0.002	0.25	1.24	154.5	<0.2	<10	130	0.55	0.34	0.82	0.32	33.2	10.6	15
ZZ64151		0.22	0.002	0.24	1.37	353	<0.2	<10	110	0.56	0.46	0.95	0.31	36.4	15.0	19
ZZ64152		0.22	0.053	1.78	0.97	1470	<0.2	<10	150	2.44	2.52	0.26	1.34	59.3	18.0	11
ZZ64153		0.25	0.014	0.33	0.95	865	<0.2	<10	110	0.57	0.83	0.06	0.20	38.3	8.3	11
ZZ64154		0.24	0.021	0.25	0.90	818	<0.2	<10	100	0.69	1.45	0.15	0.77	95.1	23.4	10
ZZ64155		0.23	0.005	0.35	0.79	555	<0.2	<10	70	0.77	0.99	0.12	0.35	103.0	25.8	9
ZZ64156		0.23	0.004	0.32	0.76	799	<0.2	<10	60	0.75	0.72	0.12	0.28	100.5	30.9	7
ZZ64157		0.25	0.017	0.97	1.16	1680	<0.2	<10	110	1.55	1.87	0.20	0.67	60.2	42.0	12
ZZ64158		0.19	0.008	1.89	1.18	1490	<0.2	<10	110	0.76	4.11	0.62	0.92	27.4	20.4	11
ZZ64159		0.26	0.004	0.26	0.97	673	<0.2	<10	80	0.60	0.68	0.14	0.21	49.3	31.0	10
ZZ64160		0.26	0.018	1.61	1.53	2040	<0.2	<10	120	0.78	4.80	0.14	0.67	45.2	63.8	16



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ64121		1.54	48.1	4.40	4.80	0.06	0.11	0.01	0.021	0.04	17.5	64.2	0.67	603	0.46	0.01
ZZ64122		1.68	46.0	4.32	5.22	0.09	0.10	0.01	0.020	0.04	28.6	66.5	0.68	559	0.48	0.01
ZZ64123		1.36	40.2	4.10	4.75	0.06	0.24	<0.01	0.017	0.05	21.7	60.2	0.66	616	0.41	0.01
ZZ64124		1.41	31.9	3.52	2.78	0.06	0.04	0.01	0.018	0.03	17.2	23.9	0.32	543	0.53	0.01
ZZ64125		0.83	28.1	3.49	4.05	0.08	0.11	<0.01	0.014	0.03	34.2	44.3	0.51	394	0.65	0.01
ZZ64126		2.81	36.8	4.00	4.84	0.08	0.06	0.01	0.016	0.05	26.5	56.6	0.56	570	0.65	0.01
ZZ64127		2.29	38.0	4.25	4.41	0.07	0.05	0.02	0.021	0.04	21.9	54.7	0.52	620	0.70	0.01
ZZ64128		1.83	28.2	3.30	2.21	0.05	0.04	0.01	0.015	0.03	17.9	22.8	0.22	454	0.84	0.01
ZZ64129		7.14	54.3	4.71	5.38	0.07	0.12	0.01	0.021	0.05	18.8	78.6	0.74	458	1.32	0.01
ZZ64130		2.28	41.7	4.31	4.67	0.10	0.05	0.02	0.017	0.04	39.9	66.9	0.61	591	0.47	0.01
ZZ64131		3.01	33.6	3.79	3.92	0.06	0.04	0.02	0.021	0.05	24.9	31.2	0.34	893	0.80	0.01
ZZ64132		2.19	55.1	4.21	4.33	0.12	0.10	0.01	0.021	0.04	57.6	48.1	0.56	713	0.49	0.01
ZZ64133		3.25	66.9	4.13	4.32	0.10	0.06	0.03	0.024	0.04	50.2	49.5	0.56	1110	0.60	0.01
ZZ64134		3.68	68.2	4.48	5.11	0.10	0.07	0.02	0.035	0.04	40.2	58.1	0.66	1200	0.58	0.01
ZZ64135		3.65	56.0	4.22	4.93	0.10	0.08	0.01	0.021	0.04	41.4	62.5	0.66	1000	0.57	0.01
ZZ64136		2.87	44.5	4.01	4.19	0.08	0.10	0.02	0.024	0.03	30.3	49.5	0.52	776	0.51	0.01
ZZ64137		2.85	42.5	3.90	3.78	0.07	0.06	<0.01	0.020	0.04	25.0	53.0	0.48	474	0.42	0.01
ZZ64138		3.56	37.7	4.21	3.64	0.07	0.05	<0.01	0.020	0.04	26.7	46.7	0.44	503	0.52	0.01
ZZ64139		2.40	27.5	3.47	2.92	<0.05	0.06	<0.01	0.016	0.04	11.1	24.4	0.33	390	0.52	0.01
ZZ64140		2.33	29.2	3.37	2.94	0.06	0.05	0.01	0.023	0.03	28.5	21.8	0.23	889	0.57	0.01
ZZ64141		1.46	25.4	3.41	3.35	0.10	0.06	0.01	0.019	0.05	43.4	32.7	0.38	354	0.58	0.01
ZZ64142		2.19	27.3	3.63	3.78	0.09	0.11	0.01	0.017	0.05	43.4	36.6	0.42	380	0.45	0.01
ZZ64143		2.17	31.3	5.37	1.35	0.09	0.11	0.03	0.022	0.04	32.7	8.0	0.12	990	0.89	0.01
ZZ64144		3.38	28.1	3.65	4.60	0.09	0.08	0.01	0.017	0.05	48.3	34.4	0.43	435	0.67	0.01
ZZ64145		2.63	32.7	3.68	4.22	0.10	0.07	0.01	0.015	0.04	42.5	42.8	0.51	431	0.44	0.01
ZZ64146		4.39	56.8	4.00	4.86	0.13	0.09	0.03	0.024	0.06	52.9	43.5	0.52	1080	0.55	<0.01
ZZ64147		1.74	28.8	3.36	2.88	0.09	0.05	0.03	0.032	0.04	35.5	26.0	0.30	438	0.78	0.01
ZZ64148		3.32	29.9	3.88	3.84	0.10	0.04	0.03	0.023	0.05	40.3	36.7	0.32	479	0.72	<0.01
ZZ64149		2.54	16.1	2.94	4.02	0.06	0.03	0.04	0.021	0.06	21.2	16.0	0.15	386	0.97	<0.01
ZZ64150		1.58	25.3	2.99	3.59	0.06	0.06	0.05	0.021	0.04	18.7	27.1	0.28	755	0.90	0.01
ZZ64151		1.48	34.1	4.08	4.00	0.06	0.07	0.04	0.030	0.04	18.6	43.6	0.40	737	0.65	0.01
ZZ64152		2.92	53.1	4.75	2.38	0.10	0.09	0.09	0.069	0.05	30.5	10.9	0.25	1450	0.71	<0.01
ZZ64153		2.08	20.6	2.99	3.77	0.06	0.02	0.06	0.035	0.05	20.0	12.1	0.14	558	1.23	<0.01
ZZ64154		2.70	58.8	4.89	2.87	0.15	0.04	0.04	0.085	0.04	49.7	23.9	0.27	867	0.65	<0.01
ZZ64155		3.93	56.1	4.63	2.88	0.14	0.03	0.04	0.044	0.04	54.5	27.5	0.26	895	0.68	<0.01
ZZ64156		4.42	60.5	5.23	2.41	0.13	0.02	0.05	0.039	0.04	54.0	16.0	0.20	1450	0.61	0.01
ZZ64157		6.54	70.1	5.14	3.01	0.08	0.03	0.07	0.062	0.06	34.2	30.6	0.29	1400	1.40	0.01
ZZ64158		2.10	39.2	3.25	3.11	<0.05	0.10	0.07	0.107	0.04	13.8	22.0	0.26	1260	0.65	0.01
ZZ64159		3.08	49.7	4.03	2.70	0.08	0.02	0.05	0.023	0.05	25.4	21.8	0.27	1120	0.63	<0.01
ZZ64160		7.43	84.7	6.57	3.70	0.08	0.05	0.04	0.117	0.06	22.6	30.9	0.46	1620	1.27	0.01

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ64121		0.08	37.2	320	46.6	3.2	<0.001	0.04	1.99	2.1	0.7	<0.2	17.9	<0.01	0.01	10.7
ZZ64122		0.08	38.7	400	47.2	3.1	0.001	0.04	1.88	2.0	0.8	<0.2	17.6	<0.01	0.06	11.4
ZZ64123		0.07	35.9	460	42.0	2.4	0.001	0.03	2.09	1.9	0.7	<0.2	19.1	<0.01	0.04	12.3
ZZ64124		0.16	28.5	470	45.2	3.9	<0.001	0.03	4.05	1.8	0.7	0.2	12.0	<0.01	0.04	5.6
ZZ64125		0.17	28.6	490	25.2	2.7	0.001	0.03	1.37	1.6	0.3	0.2	13.5	<0.01	0.05	11.5
ZZ64126		0.16	30.7	540	34.8	5.4	<0.001	0.04	1.35	1.4	0.3	0.2	8.8	<0.01	0.08	5.5
ZZ64127		0.11	34.2	490	33.3	3.7	0.001	0.04	1.73	1.5	0.5	0.2	11.0	<0.01	0.10	6.1
ZZ64128		0.11	24.9	370	25.9	2.9	<0.001	0.04	2.06	1.4	<0.2	<0.2	11.0	<0.01	0.03	5.3
ZZ64129		0.07	42.0	390	54.4	4.2	<0.001	0.05	4.97	2.4	0.3	0.3	18.1	<0.01	0.03	11.4
ZZ64130		0.10	34.9	480	46.4	3.3	<0.001	0.04	1.60	1.5	0.3	0.2	14.0	<0.01	0.05	9.2
ZZ64131		0.24	24.2	760	46.9	5.9	<0.001	0.05	1.75	1.2	<0.2	0.3	11.9	<0.01	0.05	2.6
ZZ64132		0.07	37.6	340	41.5	2.6	0.001	0.04	1.16	1.9	0.5	<0.2	11.1	<0.01	0.14	15.7
ZZ64133		0.09	38.4	550	103.0	3.2	<0.001	0.04	2.18	1.7	0.3	0.4	14.4	<0.01	0.16	14.8
ZZ64134		0.08	41.2	540	111.5	3.7	0.001	0.04	2.48	1.6	0.9	0.3	16.7	<0.01	0.08	12.7
ZZ64135		0.09	41.5	520	72.1	4.2	<0.001	0.05	1.97	1.5	<0.2	0.2	14.2	<0.01	0.08	10.5
ZZ64136		0.14	31.4	690	62.5	3.5	<0.001	0.06	2.21	1.4	0.4	0.2	14.8	<0.01	0.05	5.3
ZZ64137		0.08	32.7	430	37.9	3.4	<0.001	0.03	1.80	1.9	0.3	0.2	17.1	<0.01	0.05	9.0
ZZ64138		0.11	26.1	450	36.5	4.5	<0.001	0.04	1.34	1.6	0.3	0.2	10.9	<0.01	0.06	6.6
ZZ64139		0.15	24.7	480	27.8	4.6	<0.001	0.04	1.43	1.3	0.4	0.2	9.8	<0.01	0.06	2.9
ZZ64140		0.20	21.9	600	126.0	3.7	<0.001	0.05	1.99	0.8	0.3	0.4	7.6	<0.01	0.04	2.0
ZZ64141		0.21	25.3	670	27.2	3.4	0.001	0.03	1.76	1.7	<0.2	0.2	16.4	<0.01	0.03	7.5
ZZ64142		0.15	26.5	580	29.1	4.5	<0.001	0.04	2.16	1.6	0.5	0.2	10.4	<0.01	0.03	6.9
ZZ64143		0.10	41.4	450	47.2	3.0	<0.001	0.05	10.00	3.6	0.6	0.2	12.5	<0.01	0.04	9.1
ZZ64144		0.19	25.3	530	27.6	6.6	<0.001	0.04	2.77	1.0	0.2	0.3	6.5	<0.01	0.04	4.7
ZZ64145		0.11	28.1	380	28.0	4.3	<0.001	0.03	2.67	1.2	0.4	0.2	7.5	<0.01	0.03	7.0
ZZ64146		0.07	37.6	600	37.6	5.5	0.001	0.02	5.65	1.5	0.6	0.3	30.7	<0.01	0.08	6.5
ZZ64147		0.31	26.7	570	70.7	5.2	<0.001	0.02	8.12	2.0	0.3	0.2	20.9	<0.01	0.02	7.9
ZZ64148		0.18	27.8	540	28.3	6.3	0.001	0.02	2.00	1.6	0.3	0.2	12.4	<0.01	0.06	7.2
ZZ64149		0.43	14.2	850	25.1	9.2	<0.001	0.04	1.64	1.3	0.4	0.4	13.2	<0.01	0.05	2.6
ZZ64150		0.36	22.5	930	27.5	8.5	<0.001	0.05	2.48	1.5	0.7	0.3	50.3	<0.01	0.05	1.8
ZZ64151		0.31	32.7	730	37.8	6.2	0.001	0.05	4.27	2.5	0.8	0.2	48.4	<0.01	0.06	3.6
ZZ64152		0.28	43.0	510	297	5.9	<0.001	0.03	84.0	5.6	1.8	0.3	20.8	<0.01	0.08	6.1
ZZ64153		0.30	14.5	780	44.8	10.7	<0.001	0.05	7.89	0.7	0.2	0.4	7.2	<0.01	0.07	0.9
ZZ64154		0.13	42.4	700	51.8	3.6	0.001	0.03	7.03	2.1	0.6	0.2	18.9	<0.01	0.05	11.1
ZZ64155		0.09	39.7	600	81.5	3.3	0.001	0.03	3.94	1.8	0.6	0.3	14.8	<0.01	0.07	11.0
ZZ64156		0.08	39.6	690	61.9	3.7	0.001	0.04	13.55	2.2	0.4	0.5	15.2	<0.01	0.07	9.5
ZZ64157		0.18	45.6	720	228	6.5	0.001	0.05	33.6	2.0	0.7	0.8	20.0	<0.01	0.20	6.3
ZZ64158		0.24	21.7	740	373	5.1	0.001	0.09	5.99	1.1	0.3	2.3	41.0	<0.01	0.10	3.3
ZZ64159		0.06	35.4	610	66.1	4.1	<0.001	0.04	6.62	1.4	0.2	0.2	17.4	<0.01	0.06	4.0
ZZ64160		0.06	61.0	700	275	4.7	<0.001	0.06	11.70	3.5	0.6	0.4	21.2	<0.01	0.09	11.0

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64121		<0.005	0.03	2.60	12	<0.05	8.14	111	4.6
ZZ64122		<0.005	0.02	2.43	12	<0.05	7.97	106	4.8
ZZ64123		<0.005	0.02	2.16	12	<0.05	7.38	103	12.6
ZZ64124		<0.005	0.03	1.97	11	0.05	6.08	90	1.3
ZZ64125		0.010	0.02	1.49	16	0.08	5.74	89	5.1
ZZ64126		<0.005	0.04	1.73	17	0.05	5.77	94	1.3
ZZ64127		<0.005	0.03	1.83	12	<0.05	5.14	97	1.1
ZZ64128		<0.005	0.02	1.31	8	0.05	4.49	58	1.1
ZZ64129		<0.005	0.04	2.63	14	<0.05	5.20	116	5.5
ZZ64130		<0.005	0.02	1.77	13	<0.05	5.90	101	1.3
ZZ64131		0.009	0.06	1.97	21	0.13	5.96	89	0.7
ZZ64132		<0.005	0.02	1.63	10	<0.05	6.37	100	3.8
ZZ64133		<0.005	0.03	2.03	11	<0.05	7.66	122	1.7
ZZ64134		<0.005	0.04	1.93	12	<0.05	6.55	133	1.8
ZZ64135		<0.005	0.04	1.65	13	<0.05	6.63	110	2.0
ZZ64136		<0.005	0.04	1.84	12	<0.05	5.99	100	2.7
ZZ64137		<0.005	0.02	1.94	10	<0.05	7.32	91	2.5
ZZ64138		<0.005	0.03	1.97	11	<0.05	6.53	77	1.1
ZZ64139		<0.005	0.04	1.36	13	0.05	4.61	84	1.1
ZZ64140		0.007	0.04	1.07	12	0.06	4.18	95	0.8
ZZ64141		0.007	0.03	1.19	14	0.06	6.10	78	1.4
ZZ64142		<0.005	0.04	1.29	13	0.05	6.58	84	3.1
ZZ64143		<0.005	0.06	1.61	6	0.09	11.80	30	4.7
ZZ64144		<0.005	0.06	1.13	16	0.08	3.94	70	1.7
ZZ64145		<0.005	0.04	1.16	12	<0.05	4.98	82	2.1
ZZ64146		<0.005	0.05	2.11	12	0.05	9.36	90	2.4
ZZ64147		0.010	0.04	2.28	17	0.14	7.16	105	1.6
ZZ64148		0.005	0.05	1.49	15	0.08	5.07	90	1.7
ZZ64149		0.008	0.10	1.10	26	0.15	3.20	61	0.9
ZZ64150		0.011	0.09	3.69	22	0.19	10.85	87	1.5
ZZ64151		0.010	0.05	6.54	20	0.10	9.68	113	2.2
ZZ64152		0.005	0.08	5.97	11	3.96	34.4	261	3.4
ZZ64153		0.008	0.11	1.10	25	0.23	3.56	61	<0.5
ZZ64154		0.005	0.04	2.41	11	0.08	8.63	147	2.1
ZZ64155		<0.005	0.04	2.38	9	0.07	7.96	117	1.5
ZZ64156		<0.005	0.04	2.31	8	0.08	9.44	98	0.8
ZZ64157		<0.005	0.07	6.11	12	0.13	12.40	233	1.3
ZZ64158		0.007	0.05	3.01	13	0.06	7.85	190	3.2
ZZ64159		<0.005	0.04	2.29	9	0.06	7.07	108	0.8
ZZ64160		<0.005	0.05	5.33	13	0.11	14.80	232	2.9

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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64161		0.30	0.003	0.19	1.21	350	<0.2	<10	90	0.59	0.50	0.12	0.25	56.6	22.2	16
ZZ64162		0.32	0.003	0.21	0.87	208	<0.2	<10	130	0.79	0.49	0.25	0.35	89.0	26.9	9
ZZ64163		0.39	0.005	0.13	1.52	104.0	<0.2	<10	80	0.52	0.38	0.09	0.07	68.7	15.8	17
ZZ64164		0.31	0.004	0.12	1.46	118.0	<0.2	<10	60	0.53	0.39	0.15	0.11	65.0	13.7	18
ZZ64165		0.26	0.002	0.07	1.57	95.5	<0.2	<10	40	0.49	0.44	0.04	0.08	60.9	13.7	18
ZZ64166		0.28	0.003	0.11	1.61	101.5	<0.2	<10	50	0.57	0.39	0.09	0.08	76.9	15.6	18
ZZ64167		0.30	0.003	0.12	1.76	72.0	<0.2	<10	40	0.60	0.44	0.13	0.08	92.6	19.9	19
ZZ64168		0.25	0.002	0.16	1.79	96.0	<0.2	<10	120	0.65	0.46	0.18	0.09	57.2	11.1	21
ZZ64169		0.20	0.003	0.23	1.82	133.5	<0.2	<10	130	0.70	0.45	0.18	0.21	53.9	16.3	23
ZZ64170		0.19	0.005	0.13	1.79	91.4	<0.2	<10	90	0.64	0.40	0.13	0.15	66.3	16.5	22
ZZ64171		0.29	0.003	0.12	1.83	87.3	<0.2	<10	70	0.64	0.41	0.11	0.11	76.2	16.4	21
ZZ64172		0.22	0.003	0.11	1.67	84.2	<0.2	<10	60	0.57	0.39	0.09	0.12	63.0	14.8	20
ZZ64173		0.29	0.011	0.44	1.14	306	<0.2	<10	70	0.58	0.55	0.18	0.52	55.5	23.5	13
ZZ64174		0.20	0.017	0.64	0.91	246	<0.2	<10	50	0.58	0.47	1.18	1.14	38.4	21.7	11
ZZ64175		0.25	0.012	0.39	1.14	209	<0.2	<10	60	0.54	0.47	0.34	0.42	42.7	17.6	13
ZZ64176		0.26	0.015	0.62	0.82	237	<0.2	<10	50	0.68	0.51	0.48	1.13	31.5	21.8	10
ZZ64177		0.19	0.010	0.55	0.81	908	<0.2	<10	50	0.51	1.22	0.03	0.29	41.9	25.2	10
ZZ64178		0.22	0.003	0.19	1.46	606	<0.2	<10	80	0.70	0.82	0.07	0.31	60.9	17.1	16
ZZ64179		0.17	0.005	0.16	0.80	394	<0.2	<10	60	0.42	0.68	0.07	0.22	51.7	12.2	11
ZZ64180		0.16	0.020	0.30	1.38	791	<0.2	<10	190	0.63	1.09	0.13	0.34	40.3	11.0	16
ZZ64181		0.22	0.002	0.44	1.30	491	<0.2	<10	60	0.26	0.38	0.04	0.20	34.0	6.2	18
ZZ64182		0.21	0.013	0.32	1.43	655	<0.2	<10	170	0.73	0.79	0.17	0.31	34.1	14.5	14
ZZ64183		0.23	0.011	0.63	1.22	492	<0.2	<10	170	0.74	0.86	0.61	0.42	42.1	11.9	14
ZZ64184		0.25	0.006	0.47	1.29	837	<0.2	<10	130	0.63	0.52	0.63	0.46	42.5	13.7	19
ZZ64185		0.32	0.003	0.21	1.27	422	<0.2	<10	120	0.56	0.47	0.52	0.37	46.1	13.8	17
ZZ65501		0.51	0.021	0.35	1.21	1100	<0.2	<10	130	0.70	4.79	0.19	0.50	46.3	12.6	18
ZZ65502		0.27	0.002	0.13	0.87	333	<0.2	<10	60	0.27	1.62	0.04	0.18	29.3	6.7	15
ZZ65503		0.33	0.010	0.22	1.56	312	<0.2	<10	180	0.76	3.01	0.47	0.28	40.7	11.3	23
ZZ65504		0.39	0.006	0.08	1.30	678	<0.2	<10	150	0.60	3.24	0.37	0.27	38.7	11.4	20
ZZ65505		0.34	0.004	0.11	1.21	436	<0.2	<10	100	0.33	1.53	0.06	0.16	36.9	5.6	18
ZZ65506		0.51	0.003	0.10	1.49	241	<0.2	<10	100	0.50	1.48	0.07	0.23	40.6	8.7	21
ZZ65507		0.19	0.004	0.10	0.99	166.5	<0.2	<10	110	0.36	0.72	0.08	0.15	23.7	5.2	16
ZZ65508		0.28	0.002	0.04	0.98	129.0	<0.2	<10	70	0.29	1.26	0.08	0.15	28.5	6.0	20
ZZ65509		0.38	0.006	0.09	1.58	924	<0.2	<10	180	0.61	1.49	0.62	0.28	30.9	11.5	32
ZZ65510		0.32	0.003	0.05	0.73	103.5	<0.2	<10	50	0.16	0.67	0.08	0.06	31.9	2.5	11
ZZ65511		0.34	0.005	0.10	2.15	377	<0.2	<10	130	1.28	5.00	0.97	2.08	46.5	14.3	28
ZZ65512		0.47	0.021	0.27	2.19	1505	<0.2	<10	200	0.85	7.49	0.88	0.38	40.7	18.0	39
ZZ65513		0.29	0.006	0.30	1.46	1000	<0.2	<10	120	0.74	1.34	1.30	0.77	28.8	11.2	24
ZZ65514		0.39	0.026	0.68	1.12	1515	<0.2	<10	130	0.72	6.08	0.82	1.20	43.5	14.7	19
ZZ65515		0.20	0.027	0.29	1.59	1080	<0.2	<10	220	0.82	4.61	0.78	0.48	32.5	13.4	22



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ64161		2.63	44.7	4.11	3.47	0.08	0.02	0.03	0.024	0.04	29.2	33.2	0.41	735	0.84	0.01
ZZ64162		3.80	45.5	4.28	2.53	0.12	0.09	0.05	0.033	0.06	50.1	19.9	0.22	2180	0.45	<0.01
ZZ64163		2.58	34.0	3.51	4.36	0.08	0.03	0.01	0.018	0.04	37.5	47.3	0.48	345	0.45	<0.01
ZZ64164		1.64	33.4	3.71	4.35	0.09	0.03	0.01	0.018	0.04	34.5	45.7	0.51	443	0.80	<0.01
ZZ64165		1.54	31.6	3.84	4.52	0.08	0.07	<0.01	0.015	0.03	33.3	57.0	0.57	364	0.47	<0.01
ZZ64166		1.45	37.1	3.93	4.59	0.09	0.08	0.01	0.016	0.03	40.0	58.9	0.60	428	0.52	<0.01
ZZ64167		1.52	39.2	4.28	5.30	0.11	0.14	0.02	0.016	0.04	48.8	71.7	0.67	650	0.53	0.01
ZZ64168		2.67	35.4	4.02	4.95	0.07	0.04	0.03	0.022	0.06	32.4	50.8	0.57	391	0.77	0.01
ZZ64169		2.61	36.3	4.05	5.35	0.07	0.04	0.03	0.023	0.06	29.3	52.8	0.58	681	0.94	0.01
ZZ64170		1.98	34.5	4.13	5.10	0.08	0.03	0.03	0.019	0.05	36.3	57.4	0.62	796	0.82	0.01
ZZ64171		1.92	35.2	4.16	5.21	0.10	0.04	0.02	0.020	0.04	39.4	60.6	0.64	672	1.07	<0.01
ZZ64172		1.52	32.5	3.89	4.86	0.09	0.06	0.02	0.019	0.04	35.0	59.3	0.59	602	0.59	<0.01
ZZ64173		2.04	57.3	4.44	3.41	0.08	0.03	0.05	0.024	0.04	30.8	34.4	0.41	805	2.01	0.01
ZZ64174		1.78	70.6	4.10	2.54	0.06	0.03	0.05	0.031	0.05	20.9	25.6	0.74	822	5.00	0.01
ZZ64175		1.85	49.6	3.85	3.35	0.06	0.07	0.04	0.025	0.04	23.2	32.6	0.41	515	2.07	<0.01
ZZ64176		2.03	73.9	4.12	2.37	0.06	0.05	0.05	0.032	0.04	17.4	20.2	0.32	871	4.66	<0.01
ZZ64177		3.31	57.8	5.86	1.93	0.07	0.18	0.02	0.038	0.04	21.5	11.9	0.13	662	1.39	<0.01
ZZ64178		4.30	41.4	4.15	4.01	0.08	0.04	0.01	0.025	0.05	34.4	34.1	0.41	586	0.75	0.01
ZZ64179		3.15	32.9	3.75	3.17	0.07	0.06	0.02	0.036	0.05	32.0	15.8	0.14	559	0.71	0.01
ZZ64180		2.87	22.2	4.07	3.83	0.05	0.06	0.07	0.050	0.08	21.4	16.5	0.19	706	1.01	0.01
ZZ64181		2.88	16.5	3.54	3.55	<0.05	0.08	0.03	0.027	0.04	17.8	17.0	0.22	221	0.84	<0.01
ZZ64182		3.54	27.9	3.34	3.85	0.05	0.08	0.07	0.047	0.07	18.0	18.2	0.19	822	0.96	0.02
ZZ64183		2.45	30.7	3.04	3.12	0.06	0.10	0.07	0.037	0.07	22.2	22.6	0.31	378	0.77	0.01
ZZ64184		2.31	29.6	3.40	3.78	0.06	0.09	0.08	0.037	0.06	21.8	22.7	0.36	685	1.02	0.01
ZZ64185		2.20	29.3	3.25	3.67	0.07	0.07	0.05	0.031	0.05	22.4	29.2	0.33	510	1.10	0.01
ZZ65501		1.85	47.4	3.09	3.70	0.06	0.03	0.03	0.031	0.06	22.3	17.8	0.36	601	1.87	0.01
ZZ65502		1.82	23.2	3.13	5.16	0.05	<0.02	0.08	0.028	0.05	14.1	6.2	0.15	528	2.44	0.01
ZZ65503		2.04	34.8	3.26	4.76	0.06	0.04	0.04	0.038	0.08	19.0	19.8	0.40	523	2.73	0.01
ZZ65504		2.69	29.8	3.42	5.05	0.06	0.02	0.02	0.040	0.07	17.7	18.5	0.32	516	6.50	0.01
ZZ65505		2.99	19.1	2.56	6.50	0.06	<0.02	0.03	0.026	0.06	19.1	9.1	0.18	203	3.84	0.01
ZZ65506		2.28	22.5	3.08	6.03	0.06	<0.02	0.05	0.034	0.09	20.5	13.5	0.26	431	3.22	0.01
ZZ65507		1.52	16.2	1.92	4.47	<0.05	<0.02	0.03	0.020	0.05	12.2	8.6	0.22	184	2.03	0.01
ZZ65508		3.32	14.9	2.72	7.60	0.05	<0.02	0.03	0.027	0.10	14.4	9.7	0.25	637	7.31	0.01
ZZ65509		3.42	19.8	3.27	7.00	0.05	0.02	0.04	0.032	0.11	15.4	30.1	0.45	880	8.70	0.01
ZZ65510		2.37	5.9	1.52	6.59	<0.05	0.02	0.01	0.012	0.04	16.3	3.7	0.07	86	7.40	<0.01
ZZ65511		2.18	9.4	3.53	6.79	0.07	0.05	0.04	0.115	0.04	16.6	14.2	0.46	1260	1.57	0.01
ZZ65512		6.27	33.8	4.04	6.62	0.09	0.07	0.04	0.045	0.20	17.8	51.3	0.86	486	1.33	0.02
ZZ65513		2.40	57.8	2.88	4.69	0.06	0.03	0.07	0.041	0.05	15.2	13.7	0.37	922	2.91	0.02
ZZ65514		5.85	72.1	3.29	3.55	0.07	0.07	0.08	0.053	0.10	22.3	17.6	0.39	710	4.96	0.02
ZZ65515		3.33	30.1	3.06	5.71	0.06	0.04	0.06	0.041	0.09	17.0	17.0	0.28	1030	11.00	0.02

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ64161		0.18	34.1	610	46.1	3.4	0.001	0.02	2.70	1.8	0.3	0.2	12.6	<0.01	0.09	6.5
ZZ64162		<0.05	40.8	590	44.4	3.7	<0.001	0.01	1.99	4.1	0.6	<0.2	12.2	<0.01	0.13	14.0
ZZ64163		0.09	29.7	460	39.0	4.8	<0.001	0.03	1.45	1.4	<0.2	0.2	10.4	<0.01	0.06	6.0
ZZ64164		0.21	31.4	640	30.1	4.0	<0.001	0.03	1.62	1.4	<0.2	0.2	16.6	<0.01	0.06	6.5
ZZ64165		0.06	31.1	480	27.1	3.9	<0.001	0.04	1.37	0.9	0.2	<0.2	7.3	<0.01	0.05	5.3
ZZ64166		0.05	34.0	440	28.8	2.8	0.001	0.04	1.43	1.5	<0.2	<0.2	13.4	<0.01	0.04	13.1
ZZ64167		<0.05	37.2	490	37.7	2.5	<0.001	0.03	1.63	1.8	<0.2	0.2	20.5	<0.01	0.05	16.4
ZZ64168		0.20	29.6	700	31.3	6.0	0.001	0.07	1.39	1.2	0.6	0.2	19.9	<0.01	0.05	3.6
ZZ64169		0.23	31.6	730	37.1	7.0	<0.001	0.06	1.60	1.4	0.5	0.3	18.4	<0.01	0.08	3.1
ZZ64170		0.19	32.1	590	31.6	5.0	<0.001	0.04	1.40	1.5	<0.2	0.2	15.0	<0.01	0.07	5.5
ZZ64171		0.12	34.0	510	33.6	4.5	0.001	0.04	1.69	1.6	<0.2	0.2	14.6	<0.01	0.07	7.9
ZZ64172		0.10	31.9	460	32.2	3.8	<0.001	0.03	1.57	1.4	0.3	0.2	13.3	<0.01	0.04	7.3
ZZ64173		0.10	39.9	580	78.9	3.8	0.002	0.05	11.25	1.9	0.9	0.2	16.4	<0.01	0.12	6.2
ZZ64174		0.09	43.5	700	70.4	3.4	0.004	0.07	11.15	2.2	2.2	0.2	36.7	<0.01	0.11	5.1
ZZ64175		0.12	35.6	470	60.8	4.5	0.003	0.03	5.95	1.8	1.3	0.2	16.7	<0.01	0.09	4.7
ZZ64176		0.09	44.9	630	68.9	4.2	0.007	0.05	8.39	2.4	2.0	0.2	20.9	<0.01	0.12	4.3
ZZ64177		0.11	42.9	430	98.1	4.5	<0.001	0.03	8.81	2.5	0.3	0.3	7.4	<0.01	0.06	11.9
ZZ64178		0.07	27.3	520	56.6	6.4	0.001	0.04	5.39	1.4	0.2	0.3	12.9	<0.01	0.10	6.5
ZZ64179		0.19	22.5	830	30.8	4.6	<0.001	0.06	3.37	1.1	0.4	0.3	11.1	<0.01	0.05	3.0
ZZ64180		0.41	16.6	1100	80.6	11.9	<0.001	0.07	5.73	1.6	0.8	0.4	18.7	<0.01	0.04	2.7
ZZ64181		0.47	16.2	620	29.8	7.3	<0.001	0.05	2.92	1.3	0.2	0.3	5.6	<0.01	0.04	3.6
ZZ64182		0.71	20.7	1000	49.5	12.3	<0.001	0.07	4.28	2.3	0.9	0.4	24.2	<0.01	0.05	2.7
ZZ64183		0.69	26.1	840	62.0	9.9	<0.001	0.06	9.27	2.5	0.9	0.3	56.7	<0.01	0.04	4.4
ZZ64184		0.52	24.5	1030	39.3	11.1	0.001	0.07	13.40	2.8	1.2	0.3	56.7	0.01	0.04	2.3
ZZ64185		0.56	25.1	760	30.2	9.8	0.001	0.05	6.24	2.2	1.1	0.3	43.5	<0.01	0.04	2.5
ZZ65501		0.83	27.3	490	36.3	11.5	<0.001	0.02	15.55	2.6	0.7	0.9	15.3	<0.01	0.05	5.9
ZZ65502		0.85	13.2	640	23.3	11.7	<0.001	0.05	4.16	1.0	0.7	0.8	6.9	<0.01	0.06	0.4
ZZ65503		1.03	28.7	690	25.8	15.3	<0.001	0.04	5.80	2.8	0.7	1.2	28.2	<0.01	0.07	4.1
ZZ65504		1.00	22.6	680	26.5	16.1	<0.001	0.04	5.48	1.8	0.6	1.0	21.4	<0.01	0.06	2.0
ZZ65505		0.95	14.7	610	16.3	15.1	<0.001	0.04	2.81	0.9	0.9	1.0	9.5	<0.01	0.05	0.3
ZZ65506		0.83	18.3	760	20.8	18.0	<0.001	0.05	3.32	1.1	0.9	1.0	9.7	<0.01	0.06	0.4
ZZ65507		0.55	13.3	520	10.7	9.9	<0.001	0.04	2.13	0.8	0.5	0.6	10.1	<0.01	0.03	<0.2
ZZ65508		1.15	11.2	800	12.9	23.6	<0.001	0.05	2.28	0.7	0.5	2.0	24.7	<0.01	0.04	<0.2
ZZ65509		1.68	21.3	600	24.3	24.1	<0.001	0.06	9.33	2.2	0.8	1.0	40.1	<0.01	0.06	1.1
ZZ65510		2.18	6.1	130	14.0	10.1	<0.001	0.01	0.84	1.2	0.3	2.2	10.6	<0.01	0.03	2.5
ZZ65511		2.31	13.9	650	30.0	10.8	<0.001	0.04	2.50	3.6	0.6	4.7	91.1	0.01	0.04	4.2
ZZ65512		3.65	39.7	440	31.6	39.1	<0.001	0.03	6.41	4.2	0.7	1.1	59.4	0.01	0.07	8.0
ZZ65513		0.84	23.2	1040	19.0	14.6	<0.001	0.09	4.34	1.9	1.1	0.5	66.1	0.01	0.04	0.8
ZZ65514		1.02	30.1	670	33.6	19.1	<0.001	0.04	18.40	3.2	1.0	0.6	51.8	0.01	0.06	4.7
ZZ65515		1.38	21.3	940	25.2	21.2	<0.001	0.07	6.30	2.6	0.8	0.8	45.4	<0.01	0.04	2.0

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64161		0.010	0.04	1.98	17	0.18	7.97	110	1.1
ZZ64162		<0.005	0.05	1.03	7	0.31	15.10	119	5.5
ZZ64163		<0.005	0.06	1.55	13	0.05	6.42	86	1.0
ZZ64164		0.009	0.05	1.49	18	0.12	5.66	94	1.2
ZZ64165		<0.005	0.03	1.23	12	0.07	4.63	90	2.1
ZZ64166		<0.005	0.03	1.79	12	<0.05	6.37	96	4.6
ZZ64167		<0.005	0.02	1.95	11	<0.05	7.73	107	7.4
ZZ64168		0.008	0.07	1.77	21	0.10	5.60	94	1.2
ZZ64169		0.009	0.08	1.84	24	0.14	5.77	105	1.2
ZZ64170		0.009	0.07	1.73	21	0.11	5.36	104	0.9
ZZ64171		0.005	0.05	1.78	17	0.07	6.32	101	1.4
ZZ64172		<0.005	0.03	1.65	14	0.18	5.79	99	1.7
ZZ64173		<0.005	0.06	2.23	12	0.11	8.02	125	1.1
ZZ64174		<0.005	0.06	2.42	10	0.15	9.90	133	1.2
ZZ64175		<0.005	0.05	2.80	12	0.13	7.49	105	2.5
ZZ64176		<0.005	0.07	2.78	10	3.35	9.31	131	1.6
ZZ64177		<0.005	0.04	2.65	8	0.08	4.98	135	9.3
ZZ64178		<0.005	0.07	1.71	12	0.05	5.46	103	1.5
ZZ64179		0.005	0.06	1.42	14	0.09	7.09	55	1.8
ZZ64180		0.006	0.10	1.74	26	0.17	6.44	82	1.4
ZZ64181		0.006	0.07	1.34	22	0.13	2.48	91	2.2
ZZ64182		0.007	0.10	3.73	22	0.18	9.84	91	2.7
ZZ64183		0.007	0.07	6.43	17	0.26	11.45	116	3.2
ZZ64184		0.011	0.07	22.7	23	0.15	14.60	144	2.5
ZZ64185		0.011	0.06	9.14	22	0.16	11.45	109	2.1
ZZ65501		0.021	0.11	1.67	29	2.03	7.41	106	1.3
ZZ65502		0.026	0.12	0.82	44	10.45	3.19	59	<0.5
ZZ65503		0.020	0.15	1.39	36	3.30	6.22	102	1.6
ZZ65504		0.019	0.15	1.07	39	1.66	4.38	112	0.5
ZZ65505		0.020	0.22	0.91	46	0.85	2.97	50	<0.5
ZZ65506		0.021	0.17	1.14	43	2.75	4.84	85	<0.5
ZZ65507		0.019	0.13	0.78	37	1.29	3.23	53	<0.5
ZZ65508		0.033	0.21	0.77	56	4.87	2.36	67	<0.5
ZZ65509		0.045	0.24	2.24	53	2.82	5.28	84	0.5
ZZ65510		0.062	0.17	0.54	50	0.62	1.95	29	0.6
ZZ65511		0.042	0.10	2.06	37	4.50	6.92	301	1.7
ZZ65512		0.123	0.39	1.96	44	9.80	9.92	155	3.2
ZZ65513		0.023	0.15	4.38	35	1.35	18.40	84	0.5
ZZ65514		0.019	0.13	3.19	25	3.29	12.70	201	2.5
ZZ65515		0.024	0.21	3.16	36	3.80	9.64	121	1.1



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65516		0.39	0.004	0.11	1.06	204	<0.2	<10	120	0.40	1.71	0.16	0.19	26.8	5.4	17
ZZ65517		0.27	0.005	0.18	1.12	324	<0.2	<10	170	0.56	1.52	0.32	0.25	37.6	6.9	16
ZZ65518		0.40	0.014	0.45	1.74	891	<0.2	<10	280	0.99	0.94	0.45	0.33	40.5	14.1	29
ZZ65519		0.24	0.004	0.21	1.67	270	<0.2	<10	180	0.64	0.76	0.17	0.15	28.3	5.1	21
ZZ65520		0.37	0.003	0.07	1.63	482	<0.2	<10	250	0.59	1.25	0.41	0.23	35.7	10.8	25
ZZ65521		0.37	0.003	0.15	1.35	445	<0.2	<10	210	0.59	1.26	0.82	0.35	28.2	7.5	19
ZZ65522		0.30	0.004	0.06	0.99	275	<0.2	<10	180	0.40	1.01	0.50	0.26	30.1	10.3	18
ZZ65523		0.30	0.002	0.11	1.31	194.5	<0.2	<10	150	0.33	0.81	0.45	0.21	25.6	5.8	20
ZZ65524		0.43	0.005	0.13	1.36	339	<0.2	<10	120	0.64	1.26	0.28	0.31	50.2	17.4	22
ZZ65525		0.37	0.003	0.14	1.34	464	<0.2	<10	110	0.37	0.60	0.08	0.27	27.8	10.8	25
ZZ65526		0.29	0.004	0.15	1.14	772	<0.2	<10	150	0.53	1.50	0.25	0.42	24.7	9.4	19
ZZ65527		0.32	0.014	0.32	1.99	1310	<0.2	<10	190	1.43	4.23	0.58	0.40	38.9	16.0	29
ZZ65528		0.31	0.009	0.40	1.50	693	<0.2	<10	150	0.75	1.56	1.45	0.87	26.5	11.4	21
ZZ65529		0.28	0.003	0.18	1.50	102.0	<0.2	<10	50	0.66	0.55	0.14	0.10	92.5	21.4	19
ZZ65530		0.36	0.003	0.12	1.57	196.0	<0.2	<10	40	0.59	0.59	0.05	0.08	85.8	26.8	18
ZZ65531		0.40	0.003	0.12	1.50	218	<0.2	<10	40	0.73	0.56	0.09	0.12	95.3	30.7	18
ZZ65532		0.22	0.004	0.04	1.63	16.9	<0.2	<10	40	0.15	0.11	0.30	0.02	13.85	4.3	18
ZZ65533		0.32	0.024	0.17	1.53	455	<0.2	<10	50	0.96	0.78	0.14	0.10	67.9	20.1	17
ZZ65534		0.33	0.045	0.28	0.92	654	<0.2	<10	30	0.67	0.66	0.18	0.14	50.7	19.9	10
ZZ65535		0.31	0.011	0.41	1.09	167.5	<0.2	<10	140	0.65	0.90	0.31	0.32	42.5	19.6	15
ZZ65536		0.30	0.003	0.08	0.80	104.0	<0.2	<10	50	0.30	0.32	0.08	0.29	33.5	8.4	13
ZZ65537		0.33	0.003	0.10	1.18	82.5	<0.2	<10	220	0.37	0.37	0.06	0.17	40.6	5.7	17
ZZ65538		0.32	0.004	0.07	0.61	119.5	<0.2	<10	50	0.18	0.41	0.04	0.12	47.6	9.2	12
ZZ65539		0.34	0.004	0.22	1.32	156.5	<0.2	<10	120	0.74	0.46	0.07	0.30	45.6	9.1	18
ZZ65540		0.30	0.004	0.17	1.11	130.5	<0.2	<10	120	0.40	0.46	0.06	0.20	32.6	5.8	17
ZZ65541		0.34	0.003	0.07	0.78	221	<0.2	<10	70	0.30	0.53	0.06	0.11	46.3	4.2	11
ZZ65542		0.33	0.005	0.09	0.69	69.8	<0.2	<10	60	0.15	0.29	0.04	0.09	38.2	2.6	11
ZZ65543		0.45	0.005	0.07	0.96	167.5	<0.2	<10	110	0.44	0.49	0.10	0.20	50.9	7.4	15
ZZ65544		0.35	0.005	0.11	1.15	160.5	<0.2	<10	80	0.41	0.54	0.28	0.40	42.7	10.6	16
ZZ65545		0.27	0.002	0.21	0.78	102.0	<0.2	<10	110	0.39	0.31	0.57	0.22	32.3	4.3	10
ZZ65546		0.25	0.004	0.15	1.81	736	<0.2	<10	130	1.32	2.11	0.36	0.13	72.6	59.1	21
ZZ65547		0.33	0.003	0.13	0.79	125.0	<0.2	<10	170	0.60	0.94	0.72	0.63	45.4	20.5	8
ZZ65548		0.38	0.002	0.01	0.79	193.0	<0.2	<10	50	0.14	1.50	0.03	0.05	41.3	5.5	12
ZZ65549		0.28	0.004	0.07	0.49	185.5	<0.2	<10	110	0.54	0.63	0.08	1.31	55.3	24.0	8
ZZ65550		0.28	0.003	0.13	1.37	387	<0.2	<10	110	0.54	0.89	0.06	0.18	52.4	12.5	18
ZZ65551		0.24	0.003	0.03	0.50	86.1	<0.2	<10	50	0.13	0.33	0.13	0.08	42.4	2.7	7
ZZ65552		0.23	0.004	0.23	1.26	144.0	<0.2	<10	90	0.67	0.47	0.21	0.33	45.3	15.6	17
ZZ65553		0.22	0.072	0.09	0.47	490	<0.2	<10	40	0.73	2.28	0.02	0.13	48.9	21.9	9
ZZ65554		0.37	0.003	0.05	0.64	126.0	<0.2	<10	60	0.14	0.34	0.02	0.08	39.4	3.4	10
ZZ65555		0.40	0.002	0.07	0.74	203	<0.2	<10	60	0.16	0.59	0.02	0.10	40.8	3.4	10



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65516		2.05	13.2	2.05	5.38	<0.05	<0.02	0.04	0.031	0.07	13.6	11.2	0.17	283	4.30	0.01
ZZ65517		1.78	19.1	2.65	4.92	0.05	<0.02	0.03	0.030	0.08	19.6	14.2	0.25	268	3.55	0.01
ZZ65518		2.05	52.5	3.38	5.24	0.07	0.06	0.06	0.039	0.08	19.7	26.7	0.53	596	5.31	0.01
ZZ65519		2.79	18.4	2.48	7.22	0.05	<0.02	0.05	0.029	0.06	15.2	12.2	0.23	216	5.97	0.01
ZZ65520		3.46	25.4	3.34	6.58	0.06	0.03	0.02	0.039	0.08	18.2	19.1	0.39	494	4.39	0.02
ZZ65521		2.39	22.7	2.79	5.93	0.05	0.03	0.03	0.030	0.07	15.7	13.9	0.26	465	4.28	0.02
ZZ65522		2.14	23.9	2.89	4.66	0.06	0.02	0.03	0.024	0.08	15.8	10.3	0.25	805	3.41	0.01
ZZ65523		1.89	15.5	3.12	6.29	0.05	<0.02	0.03	0.026	0.07	13.6	10.3	0.21	315	2.91	0.01
ZZ65524		1.81	48.9	4.17	4.31	0.08	0.04	0.03	0.036	0.06	24.5	19.0	0.44	412	1.58	0.01
ZZ65525		1.95	19.1	3.33	6.49	0.06	0.02	0.04	0.036	0.06	13.3	11.3	0.26	544	2.44	0.01
ZZ65526		2.29	19.6	2.40	5.89	0.05	<0.02	0.04	0.049	0.06	12.6	8.7	0.20	1300	2.03	0.01
ZZ65527		4.83	64.5	3.53	5.85	0.07	0.07	0.04	0.067	0.08	20.4	21.5	0.47	1190	1.69	0.01
ZZ65528		2.73	38.7	2.80	4.34	0.06	0.06	0.05	0.034	0.07	15.9	14.7	0.35	692	1.08	0.01
ZZ65529		2.89	44.0	4.05	4.30	0.10	0.09	0.03	0.026	0.05	49.7	36.5	0.47	818	0.81	0.01
ZZ65530		2.70	39.9	4.09	4.86	0.09	0.04	0.03	0.026	0.04	45.6	39.5	0.47	961	0.77	0.01
ZZ65531		2.42	61.1	4.29	4.55	0.10	0.04	0.03	0.028	0.04	50.1	38.0	0.48	1300	0.92	0.01
ZZ65532		0.55	11.4	3.83	0.74	<0.05	0.02	<0.01	<0.005	0.05	7.3	7.9	0.58	723	0.09	<0.01
ZZ65533		5.14	56.6	4.39	4.46	0.07	0.07	0.05	0.028	0.05	36.2	41.1	0.48	735	1.08	<0.01
ZZ65534		1.32	53.5	4.52	2.73	0.07	0.07	0.03	0.025	0.03	27.5	29.5	0.34	579	0.78	<0.01
ZZ65535		3.27	47.8	3.76	3.27	0.06	0.03	0.07	0.026	0.08	21.4	21.6	0.36	663	1.05	0.01
ZZ65536		0.87	18.7	3.47	3.46	<0.05	<0.02	0.04	0.024	0.03	16.5	11.7	0.18	626	1.30	<0.01
ZZ65537		1.50	19.1	2.94	5.72	0.05	<0.02	0.06	0.023	0.05	21.6	17.5	0.23	179	2.25	<0.01
ZZ65538		1.50	16.5	2.94	4.08	0.05	<0.02	0.03	0.017	0.05	24.4	8.5	0.14	853	1.91	<0.01
ZZ65539		1.38	27.9	3.48	4.19	0.05	0.03	0.05	0.026	0.05	23.5	23.2	0.32	403	1.80	<0.01
ZZ65540		1.67	17.9	2.49	4.54	<0.05	<0.02	0.04	0.023	0.05	17.0	13.1	0.25	238	1.47	<0.01
ZZ65541		1.52	14.1	2.29	3.90	<0.05	<0.02	0.02	0.015	0.05	23.0	8.7	0.14	140	1.17	<0.01
ZZ65542		0.99	8.5	1.64	4.16	<0.05	<0.02	0.03	0.011	0.04	19.9	6.4	0.11	94	1.09	<0.01
ZZ65543		1.38	26.9	2.97	3.93	0.05	<0.02	0.02	0.022	0.06	24.7	15.9	0.25	241	1.33	<0.01
ZZ65544		1.60	24.2	3.26	3.95	0.05	0.05	0.02	0.018	0.04	22.7	30.3	0.40	356	0.90	0.01
ZZ65545		1.47	21.2	1.72	2.90	<0.05	<0.02	0.03	0.013	0.04	17.1	11.8	0.20	298	0.58	0.01
ZZ65546		6.56	92.6	5.51	5.39	0.09	0.08	0.04	0.033	0.08	38.7	53.5	0.54	2410	0.78	0.01
ZZ65547		1.64	27.4	3.26	2.30	0.05	0.10	0.06	0.038	0.12	22.5	8.8	0.15	2330	0.53	0.01
ZZ65548		2.82	12.9	2.57	6.41	<0.05	<0.02	<0.01	0.019	0.04	20.5	5.5	0.07	236	1.66	<0.01
ZZ65549		1.23	28.1	4.13	1.70	0.05	0.03	0.02	0.038	0.04	26.4	2.1	0.05	1880	0.50	0.01
ZZ65550		2.31	23.0	3.51	4.74	0.05	<0.02	0.03	0.028	0.06	26.1	28.1	0.29	444	1.09	0.01
ZZ65551		0.77	11.2	1.26	4.55	<0.05	<0.02	0.01	0.011	0.03	22.5	3.8	0.06	152	0.83	0.01
ZZ65552		1.54	29.9	3.32	3.69	0.06	0.08	0.02	0.021	0.05	23.0	33.6	0.39	491	0.79	0.01
ZZ65553		1.47	58.6	6.16	3.57	0.05	0.02	0.01	0.028	0.03	25.5	2.0	0.05	540	1.38	<0.01
ZZ65554		1.32	13.1	1.95	5.71	<0.05	<0.02	<0.01	0.015	0.04	19.7	3.1	0.07	119	1.62	<0.01
ZZ65555		1.37	11.2	1.94	4.99	0.05	<0.02	<0.01	0.013	0.05	21.8	6.2	0.11	181	1.22	<0.01

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ65516		0.62	10.6	790	17.8	16.6	<0.001	0.04	1.97	0.6	0.4	0.9	16.4	<0.01	0.03	<0.2
ZZ65517		1.04	16.4	530	20.7	16.5	<0.001	0.04	5.01	1.3	0.4	0.8	21.9	<0.01	0.03	0.8
ZZ65518		1.39	34.3	500	21.8	19.4	<0.001	0.03	3.65	4.3	1.0	0.6	33.5	<0.01	0.06	3.4
ZZ65519		1.10	13.4	730	14.9	19.5	<0.001	0.06	1.41	1.0	0.7	0.9	16.6	<0.01	0.04	<0.2
ZZ65520		1.51	22.8	570	19.4	20.0	<0.001	0.05	3.30	2.4	0.6	0.9	27.1	<0.01	0.06	2.5
ZZ65521		1.33	15.8	1130	17.5	18.7	<0.001	0.10	3.85	1.6	0.6	1.0	45.1	0.01	0.05	1.0
ZZ65522		0.81	19.0	1100	13.5	22.7	<0.001	0.07	3.84	1.5	0.8	0.8	27.5	<0.01	0.06	0.9
ZZ65523		1.09	13.4	610	17.0	13.3	<0.001	0.05	1.88	1.1	0.8	0.7	25.9	<0.01	0.05	0.3
ZZ65524		0.90	41.4	670	23.1	9.1	<0.001	0.04	6.03	2.5	0.9	0.4	17.5	<0.01	0.07	5.0
ZZ65525		1.35	18.0	950	18.8	14.6	<0.001	0.06	3.37	1.8	0.8	0.8	11.7	<0.01	0.05	0.9
ZZ65526		1.02	13.2	930	86.5	17.8	<0.001	0.08	5.00	1.3	0.6	1.0	18.4	<0.01	0.04	0.4
ZZ65527		1.04	28.7	1440	76.9	17.1	<0.001	0.09	11.45	2.4	1.2	0.7	34.4	0.01	0.07	1.3
ZZ65528		0.98	22.6	1480	25.7	15.9	<0.001	0.15	6.37	2.0	1.1	0.5	70.3	0.01	0.05	1.0
ZZ65529		0.16	31.2	760	43.7	4.6	<0.001	0.05	0.99	1.7	0.4	0.2	14.5	<0.01	0.12	8.9
ZZ65530		0.23	27.0	730	54.1	4.4	<0.001	0.05	1.11	1.4	0.4	0.3	7.8	<0.01	0.08	6.4
ZZ65531		0.27	32.6	700	54.1	4.8	<0.001	0.04	1.41	1.8	0.6	0.3	12.2	<0.01	0.09	9.5
ZZ65532		0.10	5.7	520	8.0	0.9	<0.001	0.06	0.12	0.4	<0.2	<0.2	4.6	<0.01	0.03	1.9
ZZ65533		0.09	32.3	670	71.7	5.9	<0.001	0.04	1.78	2.0	0.4	0.3	20.8	<0.01	0.09	5.9
ZZ65534		<0.05	38.6	300	68.4	2.3	<0.001	0.03	2.94	3.5	0.6	<0.2	15.4	<0.01	0.08	8.7
ZZ65535		0.25	37.0	750	41.2	6.8	<0.001	0.03	3.20	3.0	0.8	0.2	49.4	<0.01	0.04	5.2
ZZ65536		0.42	20.1	790	31.6	4.0	<0.001	0.03	2.22	1.2	0.7	0.2	8.8	<0.01	0.03	1.4
ZZ65537		0.75	15.9	480	16.8	9.2	<0.001	0.03	1.50	1.8	0.8	0.5	8.7	<0.01	0.04	1.7
ZZ65538		0.25	13.7	910	25.5	8.2	<0.001	0.03	2.05	0.7	0.6	0.4	6.8	<0.01	0.03	0.7
ZZ65539		0.55	23.9	680	23.7	8.3	<0.001	0.03	2.37	2.1	0.6	0.3	9.7	<0.01	0.03	3.9
ZZ65540		0.33	15.7	810	16.6	9.2	<0.001	0.04	1.87	0.5	0.5	0.4	10.0	<0.01	0.01	0.2
ZZ65541		0.39	11.8	440	18.2	9.9	<0.001	0.03	2.38	0.8	<0.2	0.3	8.0	<0.01	0.02	1.3
ZZ65542		0.42	8.0	430	11.1	6.2	<0.001	0.03	1.20	0.5	0.2	0.4	6.4	<0.01	0.01	0.5
ZZ65543		0.30	23.1	660	20.6	9.0	<0.001	0.02	3.58	1.1	0.6	0.3	12.8	<0.01	0.02	0.8
ZZ65544		0.24	24.8	590	26.6	6.7	<0.001	0.04	1.98	1.4	0.2	0.2	33.2	<0.01	0.04	3.2
ZZ65545		0.26	13.6	700	12.0	4.9	<0.001	0.04	1.05	0.7	0.2	0.2	60.6	<0.01	0.02	0.6
ZZ65546		0.20	64.6	1020	45.1	7.9	<0.001	0.05	2.08	2.6	0.7	0.2	43.2	<0.01	0.09	7.5
ZZ65547		0.23	23.0	690	18.7	11.3	<0.001	0.07	1.07	2.4	0.8	0.2	51.1	<0.01	0.04	7.9
ZZ65548		1.27	10.8	220	13.5	8.5	<0.001	0.02	0.89	1.2	0.3	0.8	5.9	<0.01	0.04	2.0
ZZ65549		0.20	24.3	530	11.5	6.0	<0.001	0.03	2.74	2.5	0.5	0.2	8.7	<0.01	0.02	3.9
ZZ65550		0.60	22.9	470	17.3	10.7	<0.001	0.03	1.24	1.6	0.4	0.4	8.6	<0.01	0.04	2.4
ZZ65551		0.25	6.9	430	7.8	4.1	<0.001	0.02	0.90	0.3	<0.2	0.4	14.6	<0.01	0.02	0.3
ZZ65552		0.22	27.8	630	28.6	4.9	<0.001	0.04	2.01	1.9	0.7	0.2	20.5	<0.01	0.03	4.1
ZZ65553		0.41	56.4	610	59.0	3.6	<0.001	0.03	9.27	2.3	0.7	0.3	5.1	0.01	0.11	3.1
ZZ65554		0.23	8.6	610	13.9	8.2	<0.001	0.03	1.46	0.3	<0.2	0.5	5.2	<0.01	0.04	<0.2
ZZ65555		0.47	8.8	310	17.9	9.4	<0.001	0.02	3.47	0.8	<0.2	0.4	4.9	<0.01	0.02	0.8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65516		0.012	0.15	0.90	33	4.86	3.16	73	<0.5
ZZ65517		0.018	0.13	0.95	31	5.00	4.29	75	<0.5
ZZ65518		0.027	0.18	4.40	50	0.84	14.55	97	1.6
ZZ65519		0.018	0.22	1.18	53	1.09	5.02	57	<0.5
ZZ65520		0.021	0.19	0.88	53	0.82	3.80	91	1.0
ZZ65521		0.024	0.16	1.26	43	0.99	5.48	70	0.9
ZZ65522		0.020	0.14	0.97	31	6.34	5.10	81	0.6
ZZ65523		0.023	0.16	0.75	54	0.86	3.22	67	<0.5
ZZ65524		0.020	0.10	1.88	29	0.88	7.78	113	1.3
ZZ65525		0.030	0.16	1.33	56	0.65	3.57	67	0.5
ZZ65526		0.025	0.18	2.06	43	0.59	4.42	72	<0.5
ZZ65527		0.019	0.18	8.91	44	0.39	20.2	123	1.5
ZZ65528		0.016	0.12	8.95	31	0.24	13.40	131	1.7
ZZ65529		<0.005	0.03	1.54	10	<0.05	5.20	94	2.9
ZZ65530		<0.005	0.04	1.39	13	0.05	4.19	85	1.4
ZZ65531		0.005	0.05	2.24	12	0.06	7.19	93	1.2
ZZ65532		<0.005	<0.02	0.33	11	<0.05	1.08	118	0.9
ZZ65533		<0.005	0.06	2.18	12	0.05	6.29	94	1.7
ZZ65534		<0.005	0.03	1.38	6	0.05	7.88	108	3.2
ZZ65535		0.007	0.10	2.87	17	0.10	8.76	103	1.0
ZZ65536		0.014	0.07	0.89	23	0.14	4.13	56	<0.5
ZZ65537		0.013	0.15	0.82	43	0.25	5.78	56	<0.5
ZZ65538		0.009	0.09	0.66	27	0.13	2.72	58	<0.5
ZZ65539		0.011	0.11	0.98	32	0.19	4.92	83	1.3
ZZ65540		0.013	0.13	1.03	33	0.20	3.65	61	<0.5
ZZ65541		0.010	0.12	0.66	24	0.25	2.17	45	<0.5
ZZ65542		0.011	0.10	0.53	26	0.17	1.87	31	<0.5
ZZ65543		0.010	0.09	0.92	25	0.20	4.66	77	<0.5
ZZ65544		0.007	0.05	1.15	18	0.10	3.69	89	1.5
ZZ65545		0.009	0.06	1.52	14	0.08	4.63	41	<0.5
ZZ65546		0.007	0.08	3.39	17	0.06	12.70	119	2.3
ZZ65547		0.007	0.08	1.20	10	0.07	13.30	65	3.4
ZZ65548		0.029	0.14	0.54	53	0.21	2.30	35	<0.5
ZZ65549		0.007	0.03	1.51	9	0.07	6.15	61	0.9
ZZ65550		0.011	0.10	0.95	31	0.17	3.63	69	<0.5
ZZ65551		0.007	0.06	0.47	24	0.13	1.89	28	<0.5
ZZ65552		0.006	0.06	2.06	15	0.09	6.56	95	2.3
ZZ65553		0.007	0.07	2.43	31	0.25	6.74	120	0.5
ZZ65554		0.008	0.12	0.46	40	0.22	1.77	37	<0.5
ZZ65555		0.011	0.11	0.54	30	0.99	2.16	40	<0.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65556		0.24	0.005	0.03	0.48	233	<0.2	<10	30	0.14	0.53	0.02	0.06	49.8	4.1	9
ZZ65557		0.42	0.003	0.05	1.32	168.0	<0.2	<10	90	0.66	0.91	0.17	0.21	56.7	11.2	13
ZZ65558		0.23	0.004	0.15	0.59	375	<0.2	<10	40	0.20	0.52	0.04	0.14	33.5	4.9	9
ZZ65559		0.36	0.003	0.20	1.18	113.0	<0.2	<10	140	0.49	0.40	0.07	0.18	41.1	6.8	14
ZZ65560		0.43	0.009	0.04	1.25	176.0	<0.2	<10	80	0.50	0.59	0.05	0.20	51.5	11.6	16
ZZ65561		0.35	0.004	0.14	1.31	47.5	<0.2	<10	90	0.43	0.31	0.05	0.21	30.9	7.2	21
ZZ65562		0.26	0.003	0.11	0.95	134.5	<0.2	<10	50	0.19	0.53	0.05	0.12	35.6	6.0	16
ZZ65563		0.35	0.003	0.12	0.80	165.5	<0.2	<10	70	0.69	0.81	0.11	0.33	38.1	19.6	11
ZZ65564		0.35	0.017	1.25	0.29	57.7	<0.2	<10	40	0.93	0.69	1.52	1.83	37.2	29.0	3
ZZ65565		0.31	0.019	0.10	0.92	321	<0.2	<10	30	0.65	0.76	1.56	0.09	48.2	52.4	11
ZZ65566		0.40	0.300	0.77	0.80	6120	0.2	<10	90	1.14	1.35	0.09	0.81	44.0	69.5	8
ZZ65567		0.40	0.005	0.45	1.51	325	<0.2	<10	50	1.41	0.92	0.22	0.17	83.2	54.8	16
ZZ65568		0.30	0.002	0.28	0.90	95.0	<0.2	<10	30	0.44	0.49	0.09	0.07	46.8	8.3	12
ZZ65569		0.37	0.004	0.31	1.57	199.0	<0.2	<10	60	1.02	0.55	0.23	0.13	84.4	33.2	16
ZZ65921		0.20	0.043	0.72	1.02	456	<0.2	<10	100	0.71	1.96	1.19	0.57	28.7	8.1	10
ZZ65922		0.50	0.080	0.28	0.79	362	<0.2	<10	70	0.49	0.72	0.38	0.33	49.7	11.4	10
ZZ65923		0.45	0.011	0.16	1.12	206	<0.2	<10	130	0.53	0.81	0.48	0.20	45.1	7.4	14
ZZ65924		0.24	0.020	0.18	1.11	275	<0.2	<10	140	0.56	0.77	0.70	0.21	37.4	7.5	15
ZZ65925		0.35	0.021	0.10	1.07	342	<0.2	<10	120	0.48	0.71	0.35	0.18	45.2	10.0	15
ZZ65926		0.31	0.026	0.16	1.14	246	<0.2	<10	180	0.51	0.67	0.57	0.21	35.8	7.9	14
ZZ65927		0.30	0.006	0.06	1.03	188.0	<0.2	<10	140	0.40	0.67	0.30	0.10	35.6	7.7	12
ZZ65928		0.28	0.006	0.09	1.07	189.0	<0.2	<10	170	0.38	0.87	0.28	0.19	43.4	7.0	14
ZZ65929		0.31	0.012	0.09	1.36	173.0	<0.2	<10	150	0.53	0.79	0.13	0.21	46.1	11.6	19
ZZ65930		0.25	0.005	0.12	1.09	182.0	<0.2	<10	140	0.43	0.87	0.19	0.29	39.9	7.9	15
ZZ65931		0.27	0.017	0.11	0.99	244	<0.2	<10	80	0.31	1.01	0.07	0.20	47.1	6.5	16
ZZ65932		0.27	0.032	0.26	0.92	356	<0.2	<10	130	0.32	1.42	0.20	0.16	41.8	5.3	13
ZZ65933		0.23	0.009	0.76	1.34	177.0	<0.2	<10	200	0.64	1.01	0.28	0.23	31.3	6.8	14
ZZ65934		0.31	0.003	0.11	0.47	291	<0.2	<10	50	0.16	1.19	0.02	0.11	44.9	4.5	7
ZZ65935		0.31	0.005	0.15	0.98	440	<0.2	<10	80	0.46	1.53	0.09	0.24	45.6	15.2	14
ZZ65936		0.27	0.002	0.07	0.25	116.5	<0.2	<10	30	0.09	0.59	0.02	0.05	41.0	2.9	4
ZZ65937		0.32	0.013	0.22	1.17	474	<0.2	<10	150	0.61	1.30	0.14	0.37	50.3	14.8	14
ZZ65938		0.30	0.007	0.24	0.90	474	<0.2	<10	80	0.46	0.75	0.65	0.39	36.9	8.7	12
ZZ65939		0.46	0.011	0.35	1.07	623	<0.2	<10	100	0.52	0.95	0.41	0.40	49.0	13.0	14
ZZ65940		0.22	0.014	0.62	1.24	687	<0.2	<10	150	0.53	1.10	0.72	0.54	35.1	9.2	16
ZZ65941		0.36	0.004	0.03	0.95	259	<0.2	<10	120	0.32	1.04	0.17	0.26	44.8	9.0	15
ZZ65942		0.35	0.005	0.04	1.17	168.0	<0.2	<10	170	0.48	0.76	0.19	0.26	46.4	11.2	16
ZZ65943		0.26	0.005	0.09	1.17	138.0	<0.2	<10	230	0.43	0.65	0.64	0.20	33.0	5.7	15
ZZ65944		0.34	0.004	0.06	1.36	209	<0.2	<10	170	0.64	0.79	0.43	0.14	44.3	7.9	17
ZZ65945		0.35	0.005	0.07	1.21	201	<0.2	<10	140	0.57	0.74	0.37	0.17	42.0	7.8	16
ZZ65946		0.30	0.013	0.13	1.08	248	<0.2	<10	110	0.60	0.88	0.37	0.18	43.1	8.4	14

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65556		2.63	15.5	1.81	5.65	0.05	<0.02	<0.01	0.012	0.04	27.3	1.6	0.04	152	1.65	<0.01
ZZ65557		1.03	19.5	3.34	3.48	0.06	0.05	0.01	0.027	0.03	28.0	26.6	0.22	346	0.93	<0.01
ZZ65558		1.40	12.4	1.91	3.94	<0.05	<0.02	0.01	0.010	0.03	17.3	6.7	0.11	274	1.08	0.01
ZZ65559		1.18	21.6	3.37	5.83	<0.05	<0.05	0.02	0.024	0.04	20.7	14.3	0.17	277	1.99	0.01
ZZ65560		1.54	26.6	3.37	5.00	0.05	0.02	0.01	0.024	0.04	25.8	22.4	0.31	409	1.60	<0.01
ZZ65561		1.33	21.0	3.74	5.36	<0.05	0.03	0.03	0.026	0.04	15.8	19.5	0.30	262	2.50	<0.01
ZZ65562		2.04	19.1	4.34	6.52	0.05	<0.02	0.04	0.021	0.04	17.8	10.2	0.19	168	1.97	0.01
ZZ65563		2.38	37.1	4.23	2.88	0.05	0.02	0.04	0.028	0.04	18.1	13.8	0.16	806	1.27	0.01
ZZ65564		1.25	143.0	4.84	0.85	0.06	0.45	0.12	0.048	0.05	19.3	1.9	0.38	660	12.40	0.01
ZZ65565		2.44	61.8	4.00	2.61	0.07	0.11	<0.01	0.025	0.04	26.9	38.9	0.40	861	0.63	0.01
ZZ65566		3.50	109.5	8.09	2.28	0.07	0.02	0.06	0.044	0.04	24.2	16.7	0.27	2130	1.44	<0.01
ZZ65567		5.15	107.0	4.58	4.48	0.09	0.10	0.03	0.024	0.06	41.9	44.6	0.54	1480	1.17	<0.01
ZZ65568		2.47	35.5	3.24	3.75	0.05	0.03	0.05	0.019	0.03	24.4	16.6	0.21	350	0.74	0.01
ZZ65569		3.53	74.8	4.02	4.03	0.08	0.11	0.05	0.026	0.05	45.0	41.6	0.52	1220	0.53	0.01
ZZ65921		1.29	23.6	2.82	2.59	0.05	0.11	0.09	0.039	0.05	15.6	9.7	0.20	706	0.52	0.02
ZZ65922		1.01	24.4	2.73	2.18	0.07	0.10	0.03	0.026	0.04	26.6	13.4	0.26	375	0.66	0.01
ZZ65923		1.08	22.7	2.84	3.23	0.06	0.06	0.04	0.023	0.04	23.0	16.6	0.29	308	0.75	0.02
ZZ65924		1.12	22.0	2.62	3.17	0.06	0.09	0.04	0.021	0.05	20.9	15.5	0.27	300	0.76	0.02
ZZ65925		1.39	21.2	2.68	3.45	0.05	0.06	0.03	0.021	0.05	23.1	19.2	0.29	403	0.84	0.01
ZZ65926		1.11	23.6	2.58	3.28	0.05	0.09	0.03	0.020	0.05	20.2	17.8	0.27	392	0.69	0.01
ZZ65927		1.21	17.0	2.41	3.48	<0.05	0.04	0.01	0.019	0.04	18.9	16.7	0.24	380	0.77	0.01
ZZ65928		1.54	15.5	2.52	4.08	0.05	0.02	0.03	0.020	0.06	22.7	13.3	0.24	441	1.12	0.01
ZZ65929		1.32	29.0	2.94	3.88	0.06	0.03	0.04	0.022	0.06	22.8	19.4	0.41	396	1.38	0.01
ZZ65930		1.33	21.6	2.74	4.18	0.05	<0.02	0.03	0.019	0.06	20.9	14.3	0.26	333	1.68	0.01
ZZ65931		1.40	20.9	2.75	4.01	0.05	<0.02	0.03	0.019	0.06	23.9	12.7	0.25	256	1.29	0.01
ZZ65932		1.90	23.6	2.45	3.32	0.05	<0.02	0.05	0.018	0.06	21.8	10.5	0.21	183	1.13	0.01
ZZ65933		2.47	46.8	2.81	3.87	<0.05	0.02	0.10	0.026	0.12	16.7	12.0	0.21	220	1.17	0.02
ZZ65934		1.81	18.6	2.41	4.29	0.05	<0.02	0.02	0.012	0.04	23.1	2.8	0.05	173	1.09	0.01
ZZ65935		2.18	31.7	3.75	3.68	0.05	<0.02	0.04	0.022	0.07	22.4	18.4	0.28	797	1.22	0.01
ZZ65936		1.71	10.0	1.44	3.15	<0.05	<0.02	0.02	0.008	0.03	20.8	1.4	0.03	90	1.09	0.01
ZZ65937		1.98	32.4	3.47	3.47	0.06	0.02	0.04	0.024	0.08	25.9	23.2	0.31	865	1.31	0.01
ZZ65938		1.39	24.1	2.43	2.64	0.05	0.08	0.05	0.015	0.05	20.0	19.1	0.26	359	0.66	0.01
ZZ65939		1.51	29.4	3.04	3.00	0.06	0.08	0.06	0.021	0.07	25.3	23.2	0.33	609	0.82	0.01
ZZ65940		2.53	27.9	2.66	4.07	0.05	<0.02	0.06	0.023	0.07	18.7	20.0	0.24	596	1.21	0.01
ZZ65941		1.09	20.5	3.15	3.73	0.06	<0.02	0.02	0.019	0.05	23.5	15.0	0.26	536	1.24	0.01
ZZ65942		1.21	22.1	2.92	3.83	0.06	0.02	0.02	0.020	0.05	24.7	21.1	0.31	412	1.28	0.01
ZZ65943		1.41	15.7	2.37	4.45	<0.05	0.05	0.02	0.021	0.05	18.5	13.4	0.25	355	1.29	0.01
ZZ65944		1.55	17.6	2.88	4.34	0.05	0.07	0.01	0.022	0.05	22.2	19.3	0.30	463	0.86	0.01
ZZ65945		1.35	17.6	2.81	3.67	0.05	0.06	0.01	0.023	0.04	21.0	18.9	0.30	394	0.82	0.01
ZZ65946		1.37	20.6	2.85	3.09	0.05	0.09	0.02	0.025	0.04	21.0	15.9	0.27	435	0.72	0.01

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65556		0.10	9.9	790	8.0	6.9	<0.001	0.03	3.02	0.1	<0.2	0.6	5.0	<0.01	0.03	<0.2
ZZ65557		0.39	26.7	380	34.7	7.2	<0.001	0.02	2.40	2.4	0.3	0.3	15.5	<0.01	0.03	6.7
ZZ65558		0.18	9.6	540	14.4	6.7	<0.001	0.03	2.31	0.3	0.3	0.4	5.8	<0.01	0.02	<0.2
ZZ65559		0.52	15.3	520	28.3	5.7	<0.001	0.03	2.11	1.6	0.5	0.5	8.5	<0.01	0.06	1.8
ZZ65560		0.48	25.3	490	28.9	7.1	<0.001	0.02	2.15	1.4	0.6	0.4	7.6	<0.01	0.06	1.6
ZZ65561		1.05	21.8	430	20.2	8.2	<0.001	0.02	1.92	2.3	0.8	0.4	7.5	<0.01	0.04	3.5
ZZ65562		1.39	15.7	370	23.4	8.1	<0.001	0.04	2.21	1.7	0.3	0.5	6.4	<0.01	0.05	3.3
ZZ65563		0.25	28.0	960	54.9	6.4	<0.001	0.04	4.86	1.6	0.5	0.3	15.4	<0.01	0.04	2.5
ZZ65564		<0.05	76.9	510	69.9	2.8	0.002	0.11	9.21	4.2	3.8	0.2	57.1	<0.01	0.20	11.6
ZZ65565		<0.05	45.3	360	51.7	2.3	<0.001	0.09	1.39	3.2	0.5	<0.2	108.5	<0.01	0.18	12.1
ZZ65566		<0.05	78.7	560	186.5	3.7	<0.001	0.15	9.69	3.9	1.0	0.3	40.0	<0.01	0.24	8.1
ZZ65567		<0.05	55.9	900	102.0	4.0	<0.001	0.04	1.83	2.6	0.6	0.2	35.2	<0.01	0.06	16.8
ZZ65568		0.14	16.1	1220	45.9	4.7	<0.001	0.08	1.20	0.6	0.3	0.2	7.6	<0.01	0.07	1.3
ZZ65569		<0.05	34.9	480	79.3	4.3	<0.001	0.03	1.49	2.1	0.3	0.2	21.0	<0.01	0.12	15.7
ZZ65921		0.38	17.7	1000	100.5	7.8	<0.001	0.10	8.66	2.2	1.0	0.3	62.5	<0.01	0.05	1.7
ZZ65922		0.32	22.9	630	46.7	3.9	<0.001	0.02	6.42	2.9	0.8	0.2	27.2	<0.01	0.03	7.1
ZZ65923		0.42	22.0	700	19.2	7.3	<0.001	0.04	2.99	2.0	0.5	0.3	30.5	<0.01	0.04	2.9
ZZ65924		0.43	20.1	810	20.6	7.7	<0.001	0.07	2.87	1.8	0.4	0.3	41.5	<0.01	0.01	2.3
ZZ65925		0.45	21.2	620	19.6	8.1	<0.001	0.04	2.81	1.6	0.3	0.3	23.9	<0.01	0.03	3.4
ZZ65926		0.40	20.1	1050	20.9	8.4	0.001	0.07	2.61	1.3	0.2	0.3	38.0	<0.01	0.02	2.3
ZZ65927		0.37	16.1	720	18.7	7.8	<0.001	0.04	2.11	0.9	0.2	0.3	21.8	<0.01	0.03	1.6
ZZ65928		0.39	15.2	1080	14.4	11.9	<0.001	0.06	2.40	0.8	0.3	0.4	20.7	<0.01	0.03	1.0
ZZ65929		0.62	27.9	650	16.1	9.6	<0.001	0.02	2.91	2.1	0.8	0.4	14.6	<0.01	0.02	3.3
ZZ65930		0.32	19.2	880	15.0	8.8	<0.001	0.04	3.07	0.6	0.6	0.4	19.1	<0.01	0.05	0.5
ZZ65931		0.35	18.3	670	16.1	9.0	0.001	0.03	3.62	0.6	0.3	0.4	10.7	<0.01	0.03	0.5
ZZ65932		0.33	17.1	640	17.6	11.3	<0.001	0.03	9.95	0.8	0.4	0.5	18.6	<0.01	0.03	0.6
ZZ65933		0.37	24.9	1090	13.6	13.9	0.001	0.06	4.04	1.1	0.7	0.5	24.1	<0.01	0.04	1.2
ZZ65934		0.35	10.5	500	10.8	7.2	<0.001	0.02	4.19	0.5	0.2	0.6	4.3	<0.01	0.05	0.5
ZZ65935		0.59	26.7	780	25.7	10.3	<0.001	0.02	4.02	1.2	0.3	0.4	11.5	<0.01	0.05	2.3
ZZ65936		0.31	6.8	350	5.7	5.2	<0.001	0.02	1.61	0.4	<0.2	0.5	4.4	<0.01	0.03	0.5
ZZ65937		0.34	27.3	650	30.3	10.5	<0.001	0.02	6.76	1.8	0.5	0.3	17.6	<0.01	0.03	4.9
ZZ65938		0.25	21.2	660	15.8	9.1	<0.001	0.05	4.30	1.4	0.9	0.2	46.4	<0.01	0.01	2.4
ZZ65939		0.28	27.6	670	17.1	9.3	<0.001	0.02	4.77	2.3	0.9	0.2	34.6	<0.01	0.02	5.2
ZZ65940		0.37	21.5	1000	17.5	17.1	<0.001	0.06	3.76	0.6	0.8	0.5	56.2	<0.01	0.02	0.4
ZZ65941		0.31	17.8	670	17.0	8.7	<0.001	0.02	4.66	0.8	0.2	0.3	14.2	<0.01	0.04	0.9
ZZ65942		0.43	22.4	530	17.0	9.8	<0.001	0.02	6.09	1.4	0.6	0.3	19.4	<0.01	0.04	2.9
ZZ65943		0.49	15.0	1260	12.9	14.7	<0.001	0.07	2.12	1.1	0.5	0.4	40.1	<0.01	0.04	1.3
ZZ65944		0.46	18.5	1250	18.2	11.6	<0.001	0.06	2.37	1.4	0.2	0.4	30.2	<0.01	0.02	1.7
ZZ65945		0.45	19.8	790	19.8	9.4	<0.001	0.04	2.71	1.6	0.5	0.4	25.3	<0.01	0.03	2.3
ZZ65946		0.40	21.1	690	28.3	8.1	<0.001	0.03	4.57	2.0	0.2	0.3	27.2	<0.01	0.03	2.9

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65556		0.006	0.10	0.68	40	0.21	1.55	37	<0.5
ZZ65557		0.007	0.07	0.95	18	0.22	7.00	58	2.0
ZZ65558		0.011	0.10	0.77	25	0.24	1.84	40	<0.5
ZZ65559		0.012	0.11	0.83	48	0.20	4.10	55	0.5
ZZ65560		0.013	0.10	0.81	31	0.20	3.69	75	0.5
ZZ65561		0.021	0.15	0.73	50	0.28	3.36	76	1.1
ZZ65562		0.030	0.11	0.64	47	0.81	2.34	49	0.7
ZZ65563		0.008	0.06	1.21	16	0.25	5.08	88	0.5
ZZ65564		<0.005	0.17	2.71	8	0.09	14.70	151	28.2
ZZ65565		<0.005	0.05	1.74	5	<0.05	7.65	115	5.2
ZZ65566		<0.005	0.08	4.68	7	0.08	11.00	154	1.7
ZZ65567		<0.005	0.05	4.44	9	<0.05	13.00	139	6.7
ZZ65568		0.005	0.05	1.49	12	<0.05	2.96	55	1.0
ZZ65569		<0.005	0.05	2.27	10	<0.05	10.50	112	4.6
ZZ65921		0.008	0.09	2.20	15	0.16	17.05	93	3.1
ZZ65922		0.012	0.04	1.13	15	0.60	12.70	77	4.6
ZZ65923		0.011	0.07	1.57	21	0.25	9.03	61	1.8
ZZ65924		0.010	0.09	3.21	22	0.34	8.67	62	2.4
ZZ65925		0.012	0.08	2.00	23	0.31	4.72	65	1.6
ZZ65926		0.010	0.09	1.22	20	0.65	5.96	57	2.3
ZZ65927		0.010	0.08	0.77	19	0.20	3.30	49	1.1
ZZ65928		0.010	0.14	0.83	27	0.19	3.28	50	0.7
ZZ65929		0.018	0.11	1.29	31	0.22	5.69	91	0.8
ZZ65930		0.007	0.12	1.00	30	0.23	4.09	70	<0.5
ZZ65931		0.013	0.10	1.04	27	0.22	3.69	61	<0.5
ZZ65932		0.007	0.14	1.78	21	0.65	4.47	54	<0.5
ZZ65933		0.005	0.14	2.04	23	0.25	7.79	68	0.5
ZZ65934		0.010	0.10	0.72	30	0.28	2.75	35	<0.5
ZZ65935		0.014	0.14	0.95	24	0.22	4.74	71	<0.5
ZZ65936		0.010	0.08	0.54	21	0.30	1.87	20	<0.5
ZZ65937		0.008	0.11	1.91	19	0.31	8.96	89	0.5
ZZ65938		0.008	0.07	3.50	14	0.15	8.37	79	2.1
ZZ65939		0.010	0.07	3.61	17	0.17	10.20	95	2.5
ZZ65940		0.008	0.13	5.86	27	0.23	11.85	98	<0.5
ZZ65941		0.011	0.09	0.92	26	0.29	3.43	74	<0.5
ZZ65942		0.010	0.10	0.88	28	0.20	4.12	69	0.6
ZZ65943		0.012	0.14	0.80	32	0.40	4.02	65	1.4
ZZ65944		0.011	0.13	1.08	28	0.27	5.36	64	1.6
ZZ65945		0.012	0.09	1.00	25	0.21	5.23	70	1.8
ZZ65946		0.011	0.09	1.22	21	0.25	8.80	69	2.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65947		0.25	0.007	0.17	0.81	141.5	<0.2	<10	70	0.57	0.70	0.52	0.27	38.2	9.2	10
ZZ65948		0.37	0.038	0.38	0.99	322	<0.2	<10	90	0.76	0.95	0.55	0.39	41.9	11.2	12
ZZ65949		0.37	0.032	0.35	1.03	351	<0.2	<10	90	0.84	0.96	0.56	0.37	41.3	10.3	12
ZZ65950		0.29	0.033	0.48	1.02	416	<0.2	<10	90	0.79	1.12	0.61	0.41	44.4	11.2	12
ZZ65951		0.33	0.015	0.36	1.23	321	<0.2	<10	110	0.75	1.05	0.84	0.39	41.3	12.6	16
ZZ65952		0.36	0.020	0.22	0.89	212	<0.2	<10	80	0.73	0.68	0.76	0.37	39.7	9.7	9
ZZ65953		0.28	0.070	0.13	1.31	476	<0.2	<10	90	0.56	0.46	0.06	0.29	38.8	11.1	18
ZZ65954		0.29	0.008	0.17	1.04	251	<0.2	<10	120	0.49	1.16	0.16	0.20	39.4	8.3	16
ZZ65955		0.32	0.017	0.11	1.20	383	<0.2	<10	140	0.56	1.31	0.15	0.27	44.7	9.7	17
ZZ65956		0.31	0.008	0.21	1.20	417	<0.2	<10	200	0.72	1.88	0.43	0.34	28.6	7.5	18
ZZ65957		0.31	0.002	0.07	0.53	410	<0.2	40	50	0.09	0.98	0.04	0.09	24.6	2.2	11
ZZ65958		0.27	0.003	0.05	0.51	237	<0.2	20	40	0.13	1.14	0.02	0.09	35.3	3.3	9
ZZ65959		0.27	0.002	0.03	0.45	123.0	<0.2	20	70	0.17	0.74	0.08	0.16	26.8	4.7	11
ZZ65960		0.32	0.007	0.28	1.42	864	<0.2	10	120	0.73	1.70	0.88	0.54	39.6	10.5	19
ZZ65961		0.39	0.005	0.11	1.35	803	<0.2	10	120	0.58	1.94	0.49	0.43	61.9	13.9	17
ZZ65962		0.34	0.007	0.08	0.73	809	<0.2	10	80	0.41	1.24	0.50	0.29	47.7	9.7	10
ZZ65963		0.52	0.006	0.18	1.08	607	<0.2	10	100	0.44	0.71	0.56	0.36	43.8	11.7	17
ZZ65964		0.28	0.002	0.09	1.07	163.0	<0.2	10	110	0.41	0.54	0.99	0.42	29.3	8.4	15
ZZ65965		0.39	0.003	0.22	1.25	95.5	<0.2	<10	80	0.54	0.65	0.73	0.22	40.3	12.0	16
ZZ65966		0.27	0.003	0.21	1.01	104.5	<0.2	<10	60	0.51	0.58	0.67	0.09	27.1	8.7	10
ZZ65967		0.33	0.004	0.20	0.75	41.9	<0.2	<10	40	0.55	0.65	0.58	0.21	35.6	12.8	9
ZZ65968		0.40	0.035	0.44	0.78	202	<0.2	<10	70	0.78	1.13	0.71	0.42	32.9	15.6	10
ZZ65969		0.42	0.083	0.43	0.57	593	<0.2	<10	60	0.70	1.50	1.00	0.43	37.1	14.2	7
ZZ65970		0.42	0.073	0.49	0.54	445	<0.2	<10	60	0.73	1.09	1.17	0.43	59.3	12.0	7
ZZ65971		0.25	0.079	0.44	0.58	390	<0.2	<10	60	0.67	1.20	1.31	0.42	57.0	13.2	7
ZZ65972		0.33	0.010	0.58	0.45	246	<0.2	<10	50	0.66	0.86	1.38	0.88	41.5	11.3	5
ZZ65973		0.27	0.115	3.57	0.80	2570	<0.2	<10	130	1.97	9.42	0.19	5.86	37.8	13.1	8
ZZ65974		0.43	0.009	0.18	1.31	1060	<0.2	<10	140	0.64	1.33	0.64	0.33	30.5	11.7	23
ZZ65975		0.36	0.004	0.08	0.93	584	<0.2	<10	90	0.32	1.95	0.11	0.19	34.3	6.1	15
ZZ65976		0.24	0.002	0.08	1.43	325	<0.2	<10	120	0.89	0.95	1.18	0.77	35.8	11.0	20
ZZ65977		0.22	0.004	0.05	1.12	477	<0.2	<10	100	0.31	2.01	0.41	0.21	26.3	6.3	24
ZZ65978		0.34	0.010	1.45	1.53	371	<0.2	<10	220	2.05	3.96	1.70	3.11	42.7	7.1	15
ZZ65979		0.33	0.003	0.16	0.96	93.0	<0.2	<10	90	0.33	0.86	0.06	0.21	29.3	5.2	15
ZZ65980		0.28	0.005	0.12	1.13	172.5	<0.2	<10	110	0.84	1.42	0.12	0.33	34.8	8.8	15
ZZ65981		0.31	0.003	0.14	1.61	274	<0.2	<10	100	0.47	1.34	0.08	0.20	29.4	8.5	24
ZZ65982		0.29	0.003	0.09	0.67	158.5	<0.2	<10	80	0.22	1.70	0.06	0.22	26.3	4.4	14
ZZ65983		0.29	0.021	0.64	1.58	1085	<0.2	<10	110	0.80	6.15	0.10	0.24	25.5	9.9	19
ZZ65984		0.26	0.002	0.15	0.83	54	<0.2	<10	60	0.30	0.44	16.05	0.23	19.80	6.2	10
ZZ65985		0.25	0.003	0.10	0.92	190.5	<0.2	<10	90	0.38	0.96	0.13	0.16	35.8	7.0	15
ZZ65986		0.31	0.002	0.09	0.71	221	<0.2	<10	90	0.19	1.55	0.07	0.10	34.9	5.0	12

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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CERTIFICATE OF ANALYSIS WH12162746

Sample Description	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65947	0.84	23.8	3.00	2.30	0.05	0.08	0.03	0.030	0.04	20.0	11.9	0.18	377	0.53	0.01
ZZ65948	1.51	27.9	3.60	2.48	0.06	0.11	0.05	0.035	0.05	22.4	10.4	0.22	592	0.62	0.01
ZZ65949	1.63	26.9	3.50	2.63	0.06	0.11	0.04	0.038	0.05	21.8	10.5	0.22	545	0.60	0.01
ZZ65950	1.79	28.5	3.66	2.56	0.06	0.11	0.05	0.040	0.05	25.2	10.3	0.23	586	0.65	0.01
ZZ65951	1.92	26.3	3.66	3.41	0.05	0.11	0.06	0.043	0.06	22.5	11.9	0.26	758	0.75	0.01
ZZ65952	0.99	25.0	3.07	2.10	0.06	0.09	0.05	0.029	0.04	19.6	10.4	0.27	567	0.63	0.01
ZZ65953	1.74	21.9	3.02	4.62	0.05	<0.02	0.05	0.026	0.05	19.6	17.3	0.29	616	1.43	0.01
ZZ65954	1.54	20.4	2.75	4.37	0.05	<0.02	0.03	0.021	0.06	20.3	14.1	0.25	448	1.91	0.01
ZZ65955	1.52	25.6	3.19	4.20	0.06	<0.02	0.02	0.024	0.07	24.1	18.7	0.32	420	2.03	0.01
ZZ65956	1.40	19.7	2.77	4.52	0.05	<0.02	0.03	0.023	0.07	15.5	12.9	0.30	489	2.88	<0.01
ZZ65957	1.51	8.1	1.56	6.68	0.05	<0.02	0.02	0.013	0.04	12.7	2.3	0.08	132	2.19	0.01
ZZ65958	1.23	20.3	2.31	3.80	0.07	<0.02	0.02	0.014	0.04	18.1	3.3	0.07	99	2.06	<0.01
ZZ65959	1.83	13.6	1.84	4.47	0.06	<0.02	0.03	0.013	0.05	13.1	3.6	0.08	412	3.09	0.01
ZZ65960	2.28	38.5	3.19	3.92	0.10	0.11	0.05	0.032	0.07	20.6	17.1	0.33	513	1.12	0.01
ZZ65961	1.78	30.3	3.78	3.50	0.11	0.10	0.03	0.028	0.07	22.0	27.6	0.38	730	0.96	0.01
ZZ65962	2.29	23.7	2.55	2.07	0.09	0.10	0.03	0.021	0.05	23.8	12.7	0.19	740	0.74	0.01
ZZ65963	2.65	28.2	3.05	3.05	0.11	0.10	0.04	0.024	0.05	21.6	20.4	0.38	556	1.04	0.01
ZZ65964	1.06	17.1	2.66	3.40	0.08	0.06	0.03	0.021	0.04	14.1	17.0	0.27	534	0.94	0.01
ZZ65965	1.06	27.6	3.68	3.38	0.11	0.10	0.03	0.037	0.04	21.0	25.2	0.35	446	0.74	0.01
ZZ65966	1.72	30.7	3.20	2.84	0.09	0.11	0.04	0.031	0.03	14.8	19.6	0.21	225	1.05	0.02
ZZ65967	1.39	37.3	4.15	1.93	0.12	0.13	0.04	0.031	0.04	19.2	17.8	0.21	365	1.21	0.01
ZZ65968	1.90	47.8	4.67	1.95	0.12	0.12	0.05	0.040	0.04	17.5	10.0	0.19	709	0.97	0.01
ZZ65969	1.36	42.5	4.23	1.48	0.11	0.09	0.04	0.040	0.04	19.4	7.9	0.15	482	0.75	0.01
ZZ65970	1.45	38.8	3.76	1.59	0.13	0.12	0.06	0.046	0.04	30.8	4.0	0.11	488	0.67	0.01
ZZ65971	1.99	40.0	3.93	1.65	0.12	0.11	0.05	0.043	0.05	29.7	4.5	0.11	552	0.62	0.01
ZZ65972	0.80	28.4	3.93	1.07	0.12	0.09	0.07	0.052	0.03	20.5	2.6	0.10	649	0.59	0.01
ZZ65973	2.30	55.9	4.51	2.04	0.11	0.11	0.13	0.203	0.04	17.9	6.9	0.18	2050	1.23	<0.01
ZZ65974	2.06	30.1	3.17	4.56	0.10	0.04	0.03	0.036	0.07	15.3	22.3	0.53	677	2.07	0.01
ZZ65975	1.90	13.3	2.39	5.82	0.08	<0.02	0.02	0.027	0.06	17.2	11.4	0.17	297	2.50	0.01
ZZ65976	1.68	9.1	3.05	6.68	0.09	0.02	0.07	0.081	0.03	13.6	9.2	0.14	630	3.16	0.01
ZZ65977	2.94	13.6	3.02	8.06	0.09	0.02	0.03	0.039	0.06	13.5	14.3	0.31	236	3.56	0.01
ZZ65978	1.00	38.9	2.19	4.11	0.12	0.07	0.11	0.125	0.02	22.0	5.0	0.12	3740	2.52	0.02
ZZ65979	1.54	15.8	2.32	6.61	0.07	<0.02	0.02	0.026	0.05	15.0	7.3	0.16	264	4.65	<0.01
ZZ65980	2.32	21.6	2.48	4.31	0.09	0.02	0.03	0.025	0.06	17.6	16.7	0.26	494	6.23	<0.01
ZZ65981	2.44	21.0	2.93	6.41	0.08	<0.02	0.04	0.030	0.05	14.5	17.4	0.34	331	3.17	<0.01
ZZ65982	1.59	16.7	2.43	5.56	0.07	<0.02	0.04	0.019	0.05	13.5	3.6	0.11	263	3.66	<0.01
ZZ65983	2.76	32.1	3.49	5.08	0.10	0.02	0.07	0.040	0.05	13.0	20.7	0.23	491	3.73	<0.01
ZZ65984	1.45	17.5	2.18	2.22	0.07	0.04	0.04	0.020	0.05	9.5	8.1	0.39	786	0.54	0.03
ZZ65985	1.33	19.1	2.91	3.67	0.08	<0.02	0.08	0.029	0.06	18.1	11.0	0.18	431	1.34	<0.01
ZZ65986	1.68	14.8	2.56	5.74	0.08	<0.02	0.03	0.021	0.04	18.0	6.5	0.14	280	1.57	<0.01

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



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ65947		0.27	21.7	690	22.8	5.2	<0.001	0.04	3.84	2.6	0.6	0.2	35.0	<0.01	0.02	2.5
ZZ65948		0.34	24.0	780	47.9	6.6	<0.001	0.05	9.84	3.1	0.8	0.3	38.4	<0.01	0.04	3.1
ZZ65949		0.35	23.8	780	46.1	7.4	<0.001	0.05	11.00	3.2	0.9	0.3	38.0	<0.01	0.04	3.0
ZZ65950		0.37	25.1	690	52.2	7.8	<0.001	0.05	14.45	3.3	0.8	0.3	39.4	<0.01	0.03	3.7
ZZ65951		0.51	24.2	980	53.1	8.6	<0.001	0.08	8.58	2.9	0.8	0.4	48.0	<0.01	0.04	2.6
ZZ65952		0.29	24.4	670	37.4	4.5	<0.001	0.04	7.38	3.1	0.5	0.3	46.9	<0.01	0.03	3.7
ZZ65953		0.51	21.1	570	24.0	8.7	0.001	0.05	2.22	1.2	0.5	0.5	8.6	<0.01	0.04	0.8
ZZ65954		0.43	17.6	610	27.8	11.2	<0.001	0.02	4.09	0.9	0.2	0.6	12.0	<0.01	0.03	0.6
ZZ65955		0.66	21.2	480	30.5	11.3	<0.001	0.01	6.77	1.8	0.3	0.5	13.6	<0.01	0.05	4.1
ZZ65956		0.50	18.1	770	27.5	12.3	<0.001	0.01	6.54	1.5	<0.2	0.8	26.6	<0.01	0.04	1.0
ZZ65957		0.55	5.3	390	16.5	7.3	<0.001	0.02	2.97	0.6	0.3	0.9	6.6	<0.01	0.03	<0.2
ZZ65958		0.47	10.2	430	16.0	8.9	<0.001	0.02	13.55	0.8	0.4	0.7	4.3	<0.01	0.04	0.9
ZZ65959		0.35	9.7	450	13.1	13.2	<0.001	0.02	2.22	0.7	0.3	0.9	8.5	<0.01	0.03	0.2
ZZ65960		0.52	22.6	1190	32.9	16.4	<0.001	0.09	13.85	2.0	1.1	0.5	55.8	0.01	0.03	2.2
ZZ65961		0.44	30.2	620	27.9	11.4	<0.001	0.04	8.19	2.1	0.6	0.3	38.3	<0.01	0.04	5.1
ZZ65962		0.22	17.3	650	12.2	8.7	<0.001	0.05	4.67	1.3	0.6	0.3	36.8	<0.01	0.03	4.1
ZZ65963		0.51	26.9	720	20.6	7.0	<0.001	0.04	4.26	2.7	0.8	0.3	44.7	<0.01	0.03	3.8
ZZ65964		0.53	18.4	890	18.5	8.5	<0.001	0.08	2.30	1.6	0.6	0.3	51.8	<0.01	0.03	1.5
ZZ65965		0.32	28.3	720	29.9	5.6	<0.001	0.05	4.02	2.8	0.9	0.2	42.9	0.01	0.03	2.5
ZZ65966		0.39	23.3	840	23.5	4.7	<0.001	0.08	2.49	2.0	1.1	0.2	39.5	0.01	0.04	1.6
ZZ65967		0.16	33.4	620	24.8	3.2	<0.001	0.05	3.90	2.6	1.3	0.2	30.5	0.01	0.04	3.6
ZZ65968		0.22	35.9	760	35.3	4.4	<0.001	0.06	16.60	3.0	1.3	0.3	37.1	0.01	0.04	3.3
ZZ65969		0.19	32.8	780	37.3	3.8	<0.001	0.07	14.75	2.8	1.1	0.2	48.5	<0.01	0.04	3.4
ZZ65970		0.23	24.6	900	36.3	4.9	<0.001	0.10	15.60	2.1	0.9	0.3	59.0	<0.01	0.03	3.7
ZZ65971		0.24	24.9	850	39.9	5.0	<0.001	0.10	17.00	1.9	0.9	0.3	69.1	<0.01	0.04	3.3
ZZ65972		0.19	23.0	670	69.2	3.6	<0.001	0.07	19.70	3.0	1.1	<0.2	71.5	0.01	0.04	2.4
ZZ65973		0.57	23.2	640	899	7.1	<0.001	0.05	138.0	2.6	1.3	0.4	22.8	0.01	0.07	4.8
ZZ65974		0.91	22.3	560	27.5	17.2	<0.001	0.04	10.55	2.5	0.6	0.7	38.6	<0.01	0.04	2.5
ZZ65975		1.11	12.7	300	23.8	15.0	<0.001	0.02	4.83	1.6	0.3	1.3	13.3	<0.01	0.03	2.6
ZZ65976		1.54	9.7	480	20.2	11.7	0.001	0.04	1.35	2.5	0.5	1.4	79.8	0.01	0.03	2.8
ZZ65977		2.04	13.4	300	24.6	21.6	<0.001	0.02	3.11	2.3	0.4	1.4	30.3	<0.01	0.04	2.5
ZZ65978		0.55	16.6	1070	57.8	6.4	0.001	0.06	4.99	2.4	1.2	2.6	137.5	0.01	0.02	1.6
ZZ65979		0.86	12.7	410	14.3	12.5	<0.001	0.01	2.58	1.4	0.5	1.2	9.7	<0.01	0.04	0.8
ZZ65980		0.89	20.2	650	17.6	14.6	<0.001	0.02	3.63	1.7	0.6	0.9	17.9	<0.01	0.04	2.3
ZZ65981		0.68	18.1	770	16.1	11.1	<0.001	0.04	2.84	1.1	0.9	0.8	11.4	<0.01	0.05	0.4
ZZ65982		0.73	11.3	560	14.4	11.0	<0.001	0.03	2.65	0.8	0.6	0.9	8.1	<0.01	0.06	0.3
ZZ65983		0.95	19.9	1090	29.1	14.1	<0.001	0.04	5.85	1.8	1.0	0.6	16.5	<0.01	0.05	1.5
ZZ65984		0.46	12.0	720	14.8	10.3	<0.001	0.09	1.18	1.5	0.9	0.3	91.4	<0.01	0.03	0.9
ZZ65985		0.42	16.0	730	18.8	11.9	0.001	0.05	5.68	0.8	0.5	0.5	15.4	<0.01	0.04	0.7
ZZ65986		0.58	11.3	420	13.5	7.4	0.001	0.03	3.14	0.8	0.4	0.7	8.0	<0.01	0.05	0.6



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65947		0.008	0.06	1.28	14	0.18	14.55	71	2.5
ZZ65948		0.009	0.08	2.71	17	0.25	18.00	113	2.9
ZZ65949		0.008	0.09	2.88	17	0.11	18.15	110	3.2
ZZ65950		0.008	0.09	2.43	16	0.29	18.25	116	3.1
ZZ65951		0.011	0.10	2.60	23	0.17	13.70	118	2.8
ZZ65952		0.009	0.06	1.18	14	0.11	15.40	79	2.9
ZZ65953		0.021	0.13	0.90	38	0.25	3.84	75	<0.5
ZZ65954		0.014	0.12	0.83	31	4.30	3.67	68	<0.5
ZZ65955		0.015	0.12	1.05	29	3.46	4.45	77	0.5
ZZ65956		0.023	0.11	1.30	39	13.40	4.96	87	<0.5
ZZ65957		0.025	0.12	0.53	55	0.80	1.84	27	<0.5
ZZ65958		0.013	0.09	0.81	28	0.48	2.32	34	<0.5
ZZ65959		0.020	0.10	0.48	41	0.87	1.96	51	<0.5
ZZ65960		0.013	0.13	11.45	23	0.34	12.60	110	2.8
ZZ65961		0.011	0.11	3.83	20	1.80	7.52	97	3.1
ZZ65962		0.005	0.08	1.99	10	0.24	6.30	48	3.0
ZZ65963		0.019	0.06	1.99	22	0.24	12.15	82	3.0
ZZ65964		0.016	0.08	0.96	25	0.50	6.43	91	1.8
ZZ65965		0.009	0.06	1.86	18	0.15	20.1	88	3.3
ZZ65966		0.009	0.07	1.80	12	0.09	14.80	67	3.3
ZZ65967		<0.005	0.04	1.80	8	0.08	16.80	94	4.4
ZZ65968		0.005	0.06	1.51	10	0.12	18.90	152	3.6
ZZ65969		<0.005	0.04	1.18	8	0.24	16.75	126	3.5
ZZ65970		<0.005	0.05	2.04	9	0.18	10.80	100	3.9
ZZ65971		<0.005	0.05	4.19	9	0.11	10.50	88	3.7
ZZ65972		<0.005	0.04	1.77	7	0.09	22.8	129	2.6
ZZ65973		0.010	0.10	7.06	14	0.41	30.6	436	3.4
ZZ65974		0.031	0.14	2.93	33	1.02	7.77	110	1.1
ZZ65975		0.032	0.13	0.72	40	12.60	3.22	63	<0.5
ZZ65976		0.053	0.10	1.66	43	52.7	5.27	148	0.9
ZZ65977		0.071	0.22	0.77	62	7.88	3.21	95	0.5
ZZ65978		0.023	0.08	5.05	20	41.0	26.5	182	1.4
ZZ65979		0.024	0.16	0.60	53	1.87	2.81	59	<0.5
ZZ65980		0.027	0.16	0.95	29	3.89	6.60	66	<0.5
ZZ65981		0.025	0.20	0.99	47	0.55	3.66	61	<0.5
ZZ65982		0.028	0.14	0.62	46	0.57	2.84	43	<0.5
ZZ65983		0.020	0.16	1.76	38	0.68	5.65	65	0.5
ZZ65984		0.016	0.10	2.10	14	0.14	11.30	52	1.5
ZZ65985		0.017	0.10	0.87	29	0.61	3.69	59	<0.5
ZZ65986		0.029	0.12	0.62	48	1.63	2.85	41	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65987		0.37	0.047	0.25	0.89	844	<0.2	<10	110	0.49	3.41	0.81	0.28	43.2	8.5	12
ZZ65988		0.36	0.044	0.29	0.78	780	<0.2	<10	80	0.54	3.10	0.74	0.23	46.2	9.6	11
ZZ65989		0.33	0.021	0.31	1.03	474	<0.2	<10	90	0.59	2.52	0.30	0.21	55.6	10.0	14
ZZ65990		0.29	0.045	0.67	0.95	758	<0.2	<10	80	0.73	1.75	0.83	1.26	35.6	10.8	13
ZZ65991		0.34	0.007	0.05	0.69	702	<0.2	<10	60	0.38	2.31	0.25	0.40	39.9	7.8	15
ZZ65992		0.43	0.018	0.62	1.41	397	<0.2	<10	120	0.69	0.76	0.48	0.74	35.9	8.9	21
ZZ65993		0.58	0.012	0.33	1.29	174.5	<0.2	<10	160	0.59	0.93	0.27	1.09	53.9	12.1	19
ZZ65994		0.38	0.013	0.34	0.97	335	<0.2	<10	120	0.49	1.30	0.30	0.60	37.9	9.9	13
ZZ65995		0.33	0.009	0.18	1.77	907	<0.2	<10	210	1.12	2.44	0.51	0.75	41.1	15.0	24
ZZ65996		0.37	0.014	0.40	1.14	769	<0.2	<10	110	0.58	1.51	0.63	0.40	37.1	11.1	17
ZZ65997		0.34	0.012	0.33	1.25	739	<0.2	<10	110	0.63	2.20	0.38	0.29	51.5	13.1	18
ZZ65998		0.34	0.012	0.24	1.51	556	<0.2	<10	130	0.73	1.56	0.63	0.54	38.4	12.7	23
ZZ65999		0.30	0.006	0.08	1.19	310	<0.2	<10	140	0.37	1.39	0.24	0.23	27.3	7.4	21
ZZ66000		0.32	0.002	0.08	0.99	667	<0.2	<10	180	0.38	2.30	0.24	0.22	36.8	9.6	16



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65987		1.69	25.5	2.85	2.78	0.09	0.09	0.03	0.034	0.05	21.3	10.2	0.23	569	0.92	<0.01
ZZ65988		2.00	30.1	2.89	2.45	0.10	0.11	0.04	0.038	0.06	23.4	8.9	0.17	648	0.72	<0.01
ZZ65989		2.33	32.5	2.84	3.17	0.11	0.10	0.04	0.042	0.05	29.0	15.3	0.26	413	0.83	<0.01
ZZ65990		1.46	39.3	3.82	2.63	0.11	0.10	0.05	0.046	0.05	19.0	11.6	0.26	733	0.89	0.01
ZZ65991		1.49	20.6	3.26	3.71	0.10	<0.02	0.02	0.024	0.04	21.6	8.2	0.12	374	1.67	0.01
ZZ65992		2.60	29.0	2.87	4.18	0.10	0.10	0.09	0.043	0.06	19.7	15.7	0.34	498	0.98	0.01
ZZ65993		1.73	40.0	3.38	3.95	0.14	0.13	0.06	0.031	0.08	29.8	14.9	0.40	733	1.47	0.01
ZZ65994		1.94	26.0	2.89	2.95	0.11	0.05	0.04	0.026	0.05	21.0	11.6	0.26	607	1.05	0.01
ZZ65995		5.07	36.4	4.02	4.42	0.14	0.11	0.03	0.039	0.07	22.6	16.9	0.36	1320	1.45	0.02
ZZ65996		2.85	32.9	3.32	3.39	0.10	0.08	0.05	0.030	0.05	20.0	15.0	0.32	649	1.13	0.01
ZZ65997		3.58	31.9	3.29	3.79	0.13	0.05	0.03	0.029	0.08	26.3	19.1	0.38	627	0.89	0.01
ZZ65998		2.91	32.3	3.34	4.89	0.11	0.06	0.03	0.034	0.09	18.9	20.4	0.39	734	1.30	0.01
ZZ65999		2.30	25.7	3.30	5.72	0.09	<0.02	0.03	0.032	0.04	14.5	13.9	0.30	301	2.52	0.01
ZZ66000		1.96	18.5	3.25	6.34	0.10	<0.02	0.03	0.025	0.06	18.6	6.6	0.16	2810	2.12	0.01

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65987		0.45	20.2	600	30.7	7.5	0.001	0.05	5.98	1.9	0.7	0.5	37.8	0.01	0.03	3.8
ZZ65988		0.34	22.5	560	29.6	8.1	0.001	0.05	6.89	2.2	0.6	0.5	38.2	0.01	0.03	5.1
ZZ65989		0.44	23.6	460	28.4	8.9	0.001	0.03	13.35	2.2	0.6	0.5	20.8	0.01	0.03	6.0
ZZ65990		0.28	25.3	730	69.0	6.3	<0.001	0.09	14.00	3.3	1.2	0.6	51.8	0.01	0.04	3.7
ZZ65991		0.53	19.0	400	23.5	8.5	<0.001	0.04	9.72	1.1	0.4	0.5	18.0	<0.01	0.04	2.2
ZZ65992		0.63	25.0	950	41.0	10.5	<0.001	0.09	8.18	3.3	1.2	0.4	30.5	0.01	0.04	2.8
ZZ65993		0.50	32.5	810	28.8	9.3	<0.001	0.03	8.45	5.1	1.0	0.4	22.4	0.01	0.04	10.3
ZZ65994		0.38	21.5	720	30.6	8.3	<0.001	0.07	7.21	2.0	0.7	0.4	26.3	<0.01	0.04	2.5
ZZ65995		0.45	26.3	2140	58.0	13.3	<0.001	0.14	7.28	2.4	1.3	0.5	37.0	0.01	0.05	1.9
ZZ65996		0.47	24.4	840	27.6	8.8	<0.001	0.08	9.42	1.9	1.0	0.4	39.8	0.01	0.04	2.4
ZZ65997		0.61	29.7	680	26.4	11.2	<0.001	0.03	9.48	2.4	0.7	0.6	30.2	<0.01	0.04	6.0
ZZ65998		0.73	28.2	1000	30.1	16.7	<0.001	0.05	5.99	2.5	0.9	0.7	43.0	0.01	0.05	2.4
ZZ65999		0.65	19.5	520	21.3	9.4	<0.001	0.03	4.32	1.2	0.7	0.6	18.9	<0.01	0.05	0.4
ZZ66000		0.88	13.5	610	28.1	16.8	<0.001	0.05	7.82	1.6	0.6	0.9	18.2	<0.01	0.07	1.9

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65987		0.009	0.10	1.39	15	0.33	8.89	61	2.7
ZZ65988		0.005	0.11	1.39	12	0.57	9.03	62	3.7
ZZ65989		0.008	0.11	1.70	17	0.29	8.82	61	3.0
ZZ65990		0.006	0.09	2.11	13	0.16	17.05	204	3.5
ZZ65991		0.016	0.09	0.84	28	0.34	2.83	87	<0.5
ZZ65992		0.015	0.14	3.11	30	0.55	16.65	231	2.8
ZZ65993		0.032	0.15	1.34	33	0.37	17.45	183	6.5
ZZ65994		0.012	0.10	1.72	21	0.33	8.14	125	1.4
ZZ65995		0.014	0.14	5.55	30	0.21	21.5	146	2.3
ZZ65996		0.014	0.11	6.26	23	0.27	10.15	91	2.4
ZZ65997		0.019	0.14	3.26	25	0.28	9.10	85	1.7
ZZ65998		0.024	0.20	4.76	35	0.60	10.55	146	1.6
ZZ65999		0.026	0.14	0.91	49	0.37	4.03	81	<0.5
ZZ66000		0.033	0.24	1.03	47	0.43	3.54	58	<0.5

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CERTIFICATE OF ANALYSIS WH12162746

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



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Project: Lance
 P.O. No.:
 This report is for 222 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

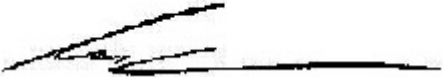
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

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

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

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66779		0.10	0.017	1.18	1.45	539	<0.2	<10	220	0.87	1.17	0.71	1.13	38.8	10.0	16
ZZ66780		0.09	0.007	0.11	1.11	75.3	<0.2	<10	80	0.19	0.38	0.09	0.22	23.9	4.1	20
ZZ66781		0.22	0.005	0.09	2.23	539	<0.2	<10	230	0.89	0.77	0.21	0.10	34.1	10.8	31
ZZ66782		0.16	0.003	0.06	0.53	149.5	<0.2	<10	120	0.10	0.42	0.18	0.37	33.3	2.6	9
ZZ66783		0.15	0.004	0.12	1.55	716	<0.2	<10	170	0.71	0.74	0.32	0.27	27.0	6.7	23
ZZ66784		0.14	0.012	0.17	1.65	894	<0.2	<10	210	0.99	2.40	0.34	0.41	34.0	7.7	20
ZZ66785		0.15	0.009	0.07	1.91	886	<0.2	<10	230	0.86	2.53	0.40	0.36	39.5	13.3	27
ZZ66786		0.23	0.007	0.15	1.16	570	<0.2	<10	100	0.61	1.75	0.12	0.30	58.6	11.6	16
ZZ66787		0.19	0.014	0.47	1.61	1025	<0.2	<10	180	0.92	3.47	0.68	0.60	41.2	13.2	21
ZZ66788		0.14	0.008	0.06	1.12	734	<0.2	<10	110	0.72	2.79	0.12	0.49	43.2	9.5	16
ZZ66789		0.17	0.009	0.23	1.27	216	<0.2	<10	100	0.52	0.92	0.14	0.43	36.9	11.2	19
ZZ66790		0.21	0.009	0.16	1.37	384	<0.2	<10	280	0.55	0.95	0.23	0.18	29.8	7.1	20
ZZ66791		0.15	0.018	0.08	1.65	394	<0.2	<10	290	0.51	0.71	0.58	0.20	24.6	5.7	25
ZZ66792		0.18	0.007	0.14	0.91	856	<0.2	<10	190	0.27	4.25	0.94	0.69	27.4	5.5	18
ZZ66793		0.11	0.013	0.67	1.43	1030	<0.2	<10	150	0.74	1.48	1.35	0.67	29.9	8.8	16
ZZ66794		0.21	0.010	0.20	1.20	762	<0.2	<10	140	0.79	0.96	0.58	0.28	42.9	11.6	19
ZZ66795		0.14	0.009	0.09	1.25	806	<0.2	<10	140	0.54	1.75	0.55	0.53	37.2	11.6	20
ZZ66796		0.18	0.015	0.43	1.23	909	<0.2	<10	170	0.87	1.86	0.53	0.63	46.6	14.0	20
ZZ66797		0.17	0.005	0.16	1.51	801	<0.2	<10	170	0.61	1.06	0.53	0.56	40.2	11.9	27
ZZ66798		0.15	0.005	0.07	0.88	592	<0.2	<10	80	0.37	0.27	0.07	0.32	36.5	9.5	14
ZZ66799		0.15	0.010	0.22	1.66	400	<0.2	<10	180	0.73	0.59	0.95	0.40	36.5	13.1	27
ZZ66800		0.18	0.013	0.32	1.40	792	<0.2	<10	180	0.77	0.85	0.90	0.94	29.6	10.8	23
ZZ66801		0.14	0.016	0.31	1.81	1255	<0.2	<10	250	0.81	1.17	0.50	0.68	40.7	16.3	32
ZZ66802		0.11	0.022	1.51	2.04	1650	<0.2	<10	280	1.38	2.33	1.04	1.12	29.8	13.3	28
ZZ66803		0.17	0.019	0.58	1.58	1090	<0.2	<10	240	1.05	2.25	1.08	0.86	29.3	10.8	23
ZZ66804		0.09	0.009	0.21	1.39	756	<0.2	<10	250	0.70	1.42	0.72	0.25	25.1	7.3	17
ZZ66805		0.15	0.015	0.58	1.42	1350	<0.2	<10	180	0.60	2.20	1.16	1.07	29.5	10.1	18
ZZ66806		0.10	0.013	0.95	1.23	1210	<0.2	<10	130	0.73	2.33	1.22	1.53	25.9	8.7	14
ZZ66807		0.11	0.017	0.68	1.55	843	<0.2	<10	220	0.80	3.21	0.85	0.95	26.3	10.1	19
ZZ66808		0.17	0.008	0.36	1.77	682	<0.2	<10	210	0.77	1.10	0.95	0.52	27.3	11.1	25
ZZ66809		0.15	0.017	0.48	1.84	757	<0.2	<10	270	0.92	1.69	0.55	0.37	41.2	15.2	28
ZZ66810		0.21	0.004	0.08	1.44	361	<0.2	<10	150	0.65	1.08	0.18	0.21	40.8	9.8	22
ZZ66811		0.20	0.004	0.06	1.46	956	<0.2	<10	130	0.70	2.86	0.16	0.29	48.2	12.8	22
ZZ66812		0.21	0.008	0.10	1.01	626	<0.2	<10	80	0.47	1.75	0.07	0.20	42.4	9.8	16
ZZ66813		0.14	0.009	0.13	1.25	537	<0.2	<10	140	0.64	1.38	0.28	0.24	42.6	12.4	18
ZZ66814		0.15	0.006	0.07	1.53	609	<0.2	<10	130	0.60	1.94	0.39	0.41	35.0	9.7	22
ZZ66815		0.13	0.003	0.07	1.24	387	<0.2	<10	200	0.23	0.49	0.13	0.21	26.2	9.3	21
ZZ66816		0.13	0.013	0.45	1.78	871	<0.2	<10	220	0.89	2.22	0.52	0.50	34.3	13.5	25
ZZ66817		0.15	0.016	1.23	1.50	978	<0.2	<10	200	0.88	2.53	0.52	0.72	24.5	12.6	23
ZZ66818		0.24	0.005	0.14	1.20	494	<0.2	<10	110	0.44	1.31	0.14	0.30	49.3	10.1	17



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66779		3.57	56.0	2.98	3.44	0.07	0.08	0.07	0.034	0.07	24.2	14.9	0.27	630	1.04	0.01
ZZ66780		1.70	11.0	3.03	6.96	<0.05	<0.02	0.04	0.018	0.05	10.9	6.4	0.20	237	1.74	0.01
ZZ66781		3.10	29.5	3.99	6.81	<0.05	0.07	0.03	0.034	0.07	17.9	23.1	0.51	546	1.96	0.01
ZZ66782		0.99	5.6	1.04	4.23	<0.05	<0.02	0.02	0.007	0.06	16.1	2.3	0.06	346	0.75	<0.01
ZZ66783		2.53	24.8	3.28	5.27	<0.05	0.03	0.03	0.025	0.07	15.2	16.6	0.33	464	1.43	0.01
ZZ66784		3.11	24.6	3.42	5.32	0.05	0.03	0.03	0.042	0.08	17.3	16.0	0.26	807	1.70	0.01
ZZ66785		2.34	31.2	3.80	5.74	<0.05	0.06	0.03	0.057	0.07	20.4	23.6	0.45	668	1.48	0.01
ZZ66786		1.65	30.6	3.21	3.20	0.06	0.05	0.02	0.025	0.06	27.8	20.7	0.36	514	1.33	0.01
ZZ66787		3.10	42.4	3.85	3.77	0.05	0.11	0.05	0.046	0.09	20.7	21.0	0.39	649	1.45	0.01
ZZ66788		2.02	25.9	3.52	3.61	0.05	0.02	0.01	0.040	0.07	20.7	19.8	0.29	393	1.55	0.01
ZZ66789		1.36	24.6	3.06	3.51	0.05	<0.02	0.03	0.023	0.07	17.1	15.7	0.35	508	2.13	<0.01
ZZ66790		1.86	20.6	2.93	4.42	<0.05	0.03	0.02	0.022	0.08	14.2	11.4	0.27	448	1.93	0.01
ZZ66791		2.35	11.8	3.05	6.09	<0.05	<0.02	0.02	0.028	0.06	12.7	17.1	0.35	404	1.66	0.01
ZZ66792		2.17	17.5	3.09	4.83	<0.05	0.02	0.03	0.073	0.08	13.3	8.1	0.17	347	2.16	0.02
ZZ66793		1.82	27.1	3.00	3.26	0.05	0.07	0.07	0.035	0.06	15.7	15.7	0.31	617	0.85	0.02
ZZ66794		2.34	27.9	3.46	3.66	0.05	0.05	0.04	0.029	0.07	20.6	19.0	0.33	532	1.61	0.01
ZZ66795		2.23	20.3	3.61	3.99	<0.05	0.05	0.04	0.039	0.09	15.7	22.7	0.37	654	2.45	0.01
ZZ66796		2.70	37.7	4.40	2.99	0.06	0.08	0.05	0.037	0.10	19.3	16.8	0.33	656	1.65	0.02
ZZ66797		1.74	19.0	3.83	4.69	<0.05	0.02	0.03	0.034	0.07	12.6	23.4	0.54	751	1.63	0.01
ZZ66798		1.27	11.7	3.10	2.40	<0.05	0.02	0.02	0.022	0.03	10.3	13.1	0.25	544	1.25	0.01
ZZ66799		3.37	52.3	3.26	4.73	0.06	0.02	0.07	0.029	0.06	21.3	20.4	0.46	1010	1.95	0.01
ZZ66800		3.75	35.2	2.91	4.49	0.05	0.03	0.06	0.029	0.08	19.0	21.0	0.36	831	4.59	0.01
ZZ66801		2.80	59.9	4.07	5.02	0.05	0.04	0.06	0.041	0.11	17.6	24.1	0.67	752	2.94	0.02
ZZ66802		4.32	61.7	4.34	4.96	0.05	0.10	0.14	0.060	0.15	19.4	19.9	0.48	814	4.47	0.02
ZZ66803		2.14	44.4	3.24	4.73	0.06	0.07	0.10	0.047	0.10	15.2	16.8	0.36	746	3.94	0.02
ZZ66804		1.84	20.4	2.55	4.36	0.05	0.05	0.07	0.032	0.06	13.3	13.5	0.24	625	2.40	0.01
ZZ66805		3.81	41.9	2.97	3.64	0.05	0.09	0.10	0.042	0.07	14.3	15.9	0.32	637	1.60	0.02
ZZ66806		4.79	45.2	2.61	2.91	0.05	0.07	0.09	0.037	0.05	14.9	15.3	0.27	466	1.24	0.02
ZZ66807		1.75	34.1	3.05	4.46	0.06	0.07	0.07	0.054	0.07	15.7	15.9	0.33	607	1.65	0.01
ZZ66808		2.74	35.3	3.05	4.85	0.06	0.08	0.06	0.039	0.07	13.5	19.2	0.45	574	1.51	0.02
ZZ66809		3.06	77.3	3.86	5.26	0.08	0.09	0.11	0.047	0.10	20.7	20.9	0.57	684	1.91	0.02
ZZ66810		1.95	25.2	3.31	4.85	0.07	<0.02	0.03	0.028	0.06	18.8	21.4	0.37	389	1.95	<0.01
ZZ66811		2.51	23.7	3.62	4.20	0.06	0.03	0.03	0.036	0.06	15.4	25.8	0.38	690	1.61	<0.01
ZZ66812		1.71	27.4	3.39	3.99	0.07	0.02	0.05	0.022	0.06	21.1	17.1	0.27	468	1.97	<0.01
ZZ66813		1.64	32.4	3.22	3.63	0.08	0.07	0.02	0.025	0.06	20.9	21.1	0.37	540	1.50	<0.01
ZZ66814		2.38	30.9	3.99	5.62	0.08	0.02	0.02	0.012	0.12	15.6	24.1	0.39	523	1.44	<0.01
ZZ66815		1.37	13.5	2.94	7.08	<0.05	<0.02	0.03	0.024	0.06	10.5	7.3	0.22	426	2.17	0.01
ZZ66816		3.09	42.1	3.60	5.37	0.07	0.08	0.04	0.043	0.07	20.0	20.2	0.39	879	1.36	0.01
ZZ66817		3.90	50.0	3.65	4.59	0.05	0.07	0.08	0.044	0.08	13.6	16.3	0.31	677	1.59	0.01
ZZ66818		1.33	29.8	3.36	3.48	0.07	0.07	0.02	0.025	0.04	23.9	20.6	0.35	429	1.04	0.01

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



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66779		0.39	27.5	1690	47.3	11.0	<0.001	0.14	4.34	1.9	0.8	0.4	41.8	<0.01	0.04	1.3
ZZ66780		0.90	11.5	510	15.0	8.9	<0.001	0.04	0.96	1.0	0.2	0.7	9.6	<0.01	0.04	0.2
ZZ66781		0.88	24.2	800	24.8	13.2	<0.001	0.04	2.66	2.7	0.8	0.8	21.3	<0.01	0.06	2.3
ZZ66782		1.00	5.0	210	10.5	18.1	<0.001	0.01	1.33	0.9	<0.2	0.8	15.2	<0.01	0.02	1.4
ZZ66783		0.58	17.5	1430	23.9	13.8	<0.001	0.09	2.59	1.4	0.6	0.7	27.8	0.01	0.05	0.7
ZZ66784		0.54	17.9	1300	48.8	18.6	<0.001	0.07	5.42	1.2	0.5	1.0	28.1	<0.01	0.05	1.0
ZZ66785		0.61	25.8	1100	46.5	15.4	<0.001	0.06	5.37	2.1	0.9	0.7	31.0	0.01	0.05	1.6
ZZ66786		0.62	27.9	220	28.0	9.8	<0.001	0.01	10.10	2.0	0.3	0.5	11.1	<0.01	0.03	7.4
ZZ66787		0.51	29.0	1050	41.2	16.9	<0.001	0.07	8.45	2.5	0.7	0.7	38.2	<0.01	0.04	2.9
ZZ66788		0.48	22.8	590	57.5	11.5	<0.001	0.03	16.15	1.4	0.3	0.6	11.6	<0.01	0.08	2.1
ZZ66789		0.48	24.1	960	19.7	8.9	<0.001	0.02	3.65	1.6	0.5	0.4	14.5	<0.01	0.03	1.6
ZZ66790		0.48	17.3	1300	15.2	14.4	<0.001	0.08	4.75	1.5	0.3	0.6	19.2	<0.01	0.02	1.1
ZZ66791		0.65	14.4	940	17.1	16.0	<0.001	0.06	4.46	1.5	0.2	0.7	38.7	<0.01	0.04	0.7
ZZ66792		1.05	14.2	470	83.3	22.2	<0.001	0.05	26.4	1.6	<0.2	0.8	56.6	<0.01	0.05	1.5
ZZ66793		0.35	17.6	1410	50.4	12.5	<0.001	0.13	14.20	1.2	1.1	0.3	73.4	<0.01	0.05	1.2
ZZ66794		0.54	24.2	680	24.4	13.0	<0.001	0.04	10.05	2.3	0.7	0.5	38.4	<0.01	0.02	3.0
ZZ66795		0.64	21.0	510	70.1	14.4	<0.001	0.04	8.69	1.8	<0.2	0.7	35.3	<0.01	0.06	2.9
ZZ66796		0.53	31.3	470	39.0	14.9	<0.001	0.04	15.10	2.9	0.9	0.6	37.9	<0.01	0.05	5.4
ZZ66797		0.62	24.1	570	33.4	12.6	<0.001	0.03	5.81	2.2	0.4	0.5	32.6	<0.01	0.06	1.9
ZZ66798		0.43	17.3	460	27.8	7.3	<0.001	0.02	2.76	1.6	0.3	0.3	7.2	<0.01	0.05	3.1
ZZ66799		0.62	30.6	940	22.2	12.7	<0.001	0.07	6.65	2.3	1.2	0.5	52.3	<0.01	0.04	1.1
ZZ66800		0.69	22.3	860	22.0	21.7	<0.001	0.06	3.20	2.0	0.6	0.5	48.7	<0.01	0.03	0.9
ZZ66801		0.71	33.2	570	29.3	24.5	<0.001	0.04	5.88	3.6	0.7	0.5	35.4	<0.01	0.03	2.9
ZZ66802		0.58	32.2	1550	40.0	30.4	<0.001	0.10	10.45	3.8	1.6	0.8	59.1	<0.01	0.06	2.0
ZZ66803		0.59	23.9	1360	32.6	23.0	<0.001	0.12	5.32	2.3	1.0	0.7	58.1	<0.01	0.03	1.6
ZZ66804		0.48	14.9	1580	19.5	14.5	<0.001	0.13	4.13	1.4	0.5	0.5	47.1	<0.01	0.04	1.2
ZZ66805		0.35	20.0	1400	27.2	16.7	<0.001	0.13	11.90	1.6	1.5	0.4	59.8	<0.01	0.02	1.6
ZZ66806		0.31	19.7	1220	30.8	10.9	0.002	0.12	11.95	1.2	1.3	0.3	65.1	<0.01	0.03	1.5
ZZ66807		0.43	20.9	1250	45.7	16.9	<0.001	0.10	8.46	1.8	1.5	0.5	46.1	0.01	0.03	1.5
ZZ66808		0.69	24.3	1050	27.6	18.5	<0.001	0.06	4.70	2.3	1.3	0.6	52.1	<0.01	0.02	1.5
ZZ66809		0.69	37.6	630	33.9	17.4	<0.001	0.01	8.06	3.9	0.7	0.7	36.5	<0.01	0.06	3.3
ZZ66810		0.50	23.7	590	21.1	11.9	<0.001	0.03	4.82	1.5	0.6	0.7	14.9	<0.01	0.04	1.0
ZZ66811		0.52	31.5	740	28.1	10.8	<0.001	0.04	7.35	1.8	0.6	0.6	15.5	<0.01	0.05	1.6
ZZ66812		0.61	20.0	430	24.1	12.7	<0.001	0.03	9.24	1.6	0.4	0.7	10.2	<0.01	0.05	4.3
ZZ66813		0.50	25.5	380	24.1	10.2	<0.001	0.03	6.55	2.2	0.6	0.5	18.8	<0.01	0.04	4.9
ZZ66814		0.67	19.7	780	27.8	17.7	<0.001	0.07	8.90	1.7	0.6	1.3	25.8	<0.01	0.06	1.4
ZZ66815		0.86	14.0	820	20.5	7.3	<0.001	0.05	1.16	2.1	0.7	0.7	14.8	<0.01	0.04	0.9
ZZ66816		0.43	27.5	1950	79.0	17.6	<0.001	0.12	3.04	2.2	0.7	0.6	36.8	<0.01	0.07	1.5
ZZ66817		0.36	29.3	1710	86.8	13.2	<0.001	0.15	6.73	2.1	0.8	0.6	41.8	<0.01	0.07	1.2
ZZ66818		0.34	25.4	590	24.3	8.5	<0.001	0.03	3.76	1.7	0.6	0.4	12.1	<0.01	0.02	3.2



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66779		0.013	0.11	3.34	21	0.48	27.1	105	2.3
ZZ66780		0.047	0.13	0.59	63	0.29	2.23	57	<0.5
ZZ66781		0.023	0.26	2.20	63	0.46	8.43	81	1.9
ZZ66782		0.039	0.12	0.49	40	0.38	1.99	32	<0.5
ZZ66783		0.024	0.15	2.68	45	0.43	10.70	75	0.8
ZZ66784		0.017	0.18	2.77	39	3.73	9.09	107	0.8
ZZ66785		0.016	0.15	3.08	46	0.50	13.45	120	1.8
ZZ66786		0.023	0.12	1.73	22	1.93	7.29	87	2.0
ZZ66787		0.017	0.14	4.27	28	1.08	15.20	152	3.2
ZZ66788		0.017	0.12	1.28	26	1.95	4.34	111	0.7
ZZ66789		0.022	0.12	1.11	33	1.22	5.54	93	<0.5
ZZ66790		0.018	0.18	1.49	36	0.88	4.16	68	0.8
ZZ66791		0.023	0.19	1.34	57	0.75	3.19	88	<0.5
ZZ66792		0.033	0.14	1.00	45	0.74	2.50	179	0.8
ZZ66793		0.013	0.09	17.00	20	1.29	9.98	116	2.0
ZZ66794		0.022	0.11	4.62	29	3.34	7.81	105	1.7
ZZ66795		0.022	0.13	1.20	30	12.60	3.44	119	1.4
ZZ66796		0.023	0.12	2.59	23	7.88	15.05	177	2.4
ZZ66797		0.028	0.12	1.91	42	1.45	4.86	117	0.8
ZZ66798		0.017	0.08	1.72	23	0.29	6.04	76	0.5
ZZ66799		0.027	0.15	8.27	41	2.85	14.65	91	0.6
ZZ66800		0.032	0.13	2.92	41	5.03	13.25	140	0.6
ZZ66801		0.034	0.19	5.49	44	0.64	14.30	196	1.3
ZZ66802		0.020	0.21	7.59	41	0.77	27.4	254	2.5
ZZ66803		0.021	0.18	3.86	36	0.86	15.55	125	1.8
ZZ66804		0.015	0.15	3.84	29	1.01	6.05	76	1.2
ZZ66805		0.014	0.13	21.0	21	1.08	10.10	209	2.2
ZZ66806		0.012	0.10	20.8	16	1.13	11.95	229	2.1
ZZ66807		0.016	0.15	8.99	29	1.37	11.70	134	1.8
ZZ66808		0.023	0.16	9.31	39	0.42	9.88	127	1.9
ZZ66809		0.026	0.24	11.60	42	0.46	13.60	129	2.7
ZZ66810		0.020	0.16	1.11	36	3.10	5.87	88	<0.5
ZZ66811		0.022	0.12	1.45	35	0.82	6.47	123	0.5
ZZ66812		0.020	0.13	0.92	25	4.71	3.26	72	0.6
ZZ66813		0.015	0.11	1.68	27	0.63	5.71	90	2.1
ZZ66814		0.023	0.17	1.36	35	1.09	5.22	93	0.5
ZZ66815		0.036	0.21	0.80	66	0.42	3.01	53	<0.5
ZZ66816		0.017	0.20	6.05	37	0.30	19.05	119	2.0
ZZ66817		0.014	0.15	4.74	31	0.50	13.85	133	2.1
ZZ66818		0.016	0.11	2.03	25	1.21	6.11	90	1.9



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66819		0.18	0.006	0.21	1.40	324	<0.2	<10	90	0.62	0.84	0.13	0.46	38.7	10.7	20
ZZ66820		0.18	0.003	0.27	1.03	252	<0.2	<10	190	0.46	1.04	0.24	0.53	30.1	8.8	15
ZZ66821		0.15	0.009	0.31	1.00	493	<0.2	<10	120	0.51	2.08	0.10	1.13	50.9	12.2	16
ZZ66822		0.13	0.006	0.21	1.07	476	<0.2	<10	150	0.53	1.65	0.31	0.42	42.2	10.4	15
ZZ66823		0.17	0.012	0.38	1.41	551	<0.2	<10	160	0.72	2.12	0.29	0.16	37.3	7.1	18
ZZ66824		0.11	0.014	0.73	1.17	814	<0.2	<10	140	0.60	3.65	1.24	0.43	25.2	9.5	16
ZZ66825		0.24	0.011	0.11	1.26	701	<0.2	<10	190	0.60	1.36	0.62	0.37	24.3	10.5	20
ZZ66826		0.16	0.008	0.13	1.51	376	<0.2	<10	70	0.73	0.36	0.06	0.20	56.8	17.4	16
ZZ66827		0.15	0.009	0.18	1.54	369	<0.2	<10	60	0.79	0.65	0.12	0.16	78.6	37.8	17
ZZ66828		0.20	0.018	0.17	1.34	392	<0.2	<10	50	0.80	0.56	0.13	0.09	62.8	21.1	13
ZZ66829		0.11	NSS	0.08	1.50	111.0	<0.2	<10	60	0.51	0.39	0.08	0.15	61.5	16.6	19
ZZ66830		0.25	0.003	0.07	1.50	129.5	<0.2	<10	60	0.44	0.41	0.05	0.09	66.7	17.0	17
ZZ66831		0.17	0.005	0.15	1.42	173.5	<0.2	<10	50	0.51	0.45	0.08	0.19	55.4	21.3	17
ZZ66832		0.16	0.014	0.05	1.49	437	<0.2	<10	40	0.75	0.67	0.05	0.16	65.1	28.0	15
ZZ66833		0.17	0.004	0.24	1.53	165.0	<0.2	<10	60	0.45	0.44	0.18	0.20	55.9	19.0	18
ZZ66834		0.14	0.004	0.09	1.63	123.0	<0.2	<10	70	0.54	0.42	0.09	0.14	66.6	21.7	18
ZZ66835		0.17	0.003	0.03	1.59	115.0	<0.2	<10	60	0.56	0.43	0.09	0.09	67.8	16.1	18
ZZ66836		0.12	0.005	0.19	0.77	125.0	<0.2	<10	100	0.23	0.49	0.09	0.13	41.6	5.4	10
ZZ66837		0.18	0.006	0.12	0.89	175.5	<0.2	<10	100	0.24	0.50	0.10	0.15	44.7	6.1	12
ZZ66838		0.23	0.003	0.10	1.33	114.5	<0.2	<10	150	0.38	0.37	0.21	0.19	37.4	7.6	21
ZZ66839		0.28	0.003	0.12	0.96	159.5	<0.2	<10	70	0.27	0.36	0.12	0.11	39.7	5.8	14
ZZ66840		0.10	0.015	0.98	1.39	731	<0.2	<10	150	0.72	0.69	0.90	0.81	33.4	11.3	15
ZZ66841		0.17	0.009	0.28	1.01	331	<0.2	<10	90	0.52	0.35	0.39	0.40	43.5	8.8	14
ZZ66842		0.11	0.007	0.27	1.16	215	<0.2	<10	120	0.50	0.32	0.99	0.17	31.5	7.7	15
ZZ66843		0.09	0.009	0.26	0.97	187.5	<0.2	<10	30	0.22	0.47	0.05	0.13	46.0	9.9	13
ZZ66844		0.16	0.009	0.10	1.18	159.0	<0.2	<10	70	0.42	0.40	0.22	0.22	46.6	12.2	14
ZZ66845		0.14	0.007	0.06	1.09	117.0	<0.2	<10	60	0.19	0.41	0.03	0.08	39.9	3.8	13
ZZ66846		0.23	0.005	0.39	1.14	116.0	<0.2	<10	130	0.48	0.38	0.54	0.28	39.8	9.1	13
ZZ66847		0.10	0.003	0.08	0.80	132.0	<0.2	<10	40	0.20	0.41	0.03	0.10	38.8	6.8	13
ZZ66848		0.21	0.005	0.12	1.19	147.5	<0.2	<10	160	0.55	0.38	0.17	0.19	51.0	10.1	15
ZZ66849		0.12	0.007	0.15	1.02	463	<0.2	<10	150	0.52	0.76	0.20	0.25	35.4	22.8	12
ZZ66850		0.14	0.006	0.07	0.71	420	<0.2	<10	50	0.13	0.34	0.03	0.08	30.4	3.3	11
ZZ66851		0.15	0.006	0.09	0.73	57.1	<0.2	<10	150	0.22	0.30	0.44	0.10	27.6	3.0	12
ZZ66852		0.08	0.008	0.12	1.13	180.5	<0.2	<10	170	0.41	0.41	0.74	0.19	26.3	7.4	16
ZZ66853		0.13	0.006	0.04	0.53	238	<0.2	<10	40	0.13	0.51	0.03	0.08	46.8	3.9	9
ZZ66854		0.13	0.006	0.38	0.71	70.3	<0.2	<10	110	0.20	0.35	0.11	0.10	40.2	4.4	11
ZZ66855		0.14	0.009	0.45	1.59	416	<0.2	<10	180	0.74	0.68	0.34	0.17	20.2	18.0	16
ZZ66856		0.13	0.008	0.16	0.57	49.5	<0.2	<10	30	0.14	0.40	0.03	0.07	46.1	6.2	9
ZZ66857		0.13	0.054	0.15	0.68	836	<0.2	<10	50	0.61	1.10	0.16	0.26	29.6	34.5	8
ZZ66858		0.16	0.009	0.19	1.37	51.6	<0.2	<10	50	0.86	0.62	0.53	0.22	38.4	35.0	15



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66819		1.49	26.5	3.06	3.75	0.06	0.06	0.03	0.025	0.07	17.7	19.0	0.37	567	1.03	0.01
ZZ66820		1.58	23.1	2.75	4.01	0.05	<0.02	0.03	0.025	0.05	14.5	11.6	0.20	855	1.24	0.01
ZZ66821		1.30	31.9	3.33	3.14	0.08	0.06	0.02	0.025	0.05	24.8	18.0	0.32	515	1.27	0.01
ZZ66822		1.73	33.2	3.23	3.38	0.07	0.09	0.02	0.020	0.04	19.9	15.1	0.29	507	1.15	0.01
ZZ66823		2.73	34.1	3.30	4.68	0.06	0.05	0.05	0.028	0.06	19.0	13.5	0.25	432	1.24	0.01
ZZ66824		1.94	40.0	2.86	2.99	0.06	0.07	0.07	0.028	0.06	14.0	12.9	0.28	550	0.94	0.02
ZZ66825		2.19	22.5	3.33	5.44	0.05	0.02	0.03	0.025	0.06	12.5	12.0	0.26	998	1.45	0.01
ZZ66826		2.88	35.3	3.98	3.71	0.09	0.06	0.03	0.026	0.04	28.3	35.0	0.48	792	0.88	0.01
ZZ66827		3.12	73.7	4.85	4.69	0.14	0.03	0.03	0.029	0.04	40.7	39.9	0.54	1340	0.86	0.01
ZZ66828		4.55	52.2	4.38	3.75	0.11	0.04	0.02	0.024	0.06	30.3	31.7	0.42	691	0.73	0.01
ZZ66829		1.57	33.2	3.92	4.56	0.09	0.05	0.02	0.014	0.04	30.7	46.1	0.54	697	0.80	0.01
ZZ66830		1.76	36.0	4.01	4.29	0.11	0.04	0.01	0.019	0.03	33.6	43.2	0.52	667	0.71	0.01
ZZ66831		2.03	40.5	4.09	4.25	0.09	0.07	0.03	0.019	0.03	27.8	38.1	0.48	918	1.09	0.01
ZZ66832		3.21	49.1	4.44	3.83	0.08	0.07	0.02	0.025	0.04	32.3	38.5	0.43	898	0.70	0.01
ZZ66833		1.74	29.3	3.86	4.48	0.09	0.05	0.01	0.020	0.04	27.2	42.5	0.53	778	0.86	0.01
ZZ66834		1.73	35.1	4.02	4.74	0.09	0.08	0.02	0.016	0.04	32.2	47.1	0.56	811	0.82	0.01
ZZ66835		1.37	33.5	3.96	4.69	0.11	0.06	0.02	0.017	0.03	35.2	47.8	0.57	545	0.69	0.01
ZZ66836		2.30	20.5	2.37	3.59	0.06	<0.02	0.03	0.021	0.06	22.2	6.0	0.11	148	1.47	0.01
ZZ66837		1.68	16.5	2.36	3.76	0.06	<0.02	0.02	0.017	0.05	22.3	12.7	0.19	207	1.11	0.01
ZZ66838		1.43	17.8	3.24	5.07	0.08	<0.02	0.02	0.024	0.06	17.1	22.9	0.41	294	1.56	0.01
ZZ66839		0.98	14.2	2.70	3.17	<0.05	<0.02	0.03	0.015	0.04	20.9	16.0	0.24	241	1.03	0.01
ZZ66840		2.67	34.8	3.14	3.00	0.05	0.08	0.09	0.029	0.06	17.9	27.2	0.34	779	0.90	0.01
ZZ66841		1.72	26.0	2.74	2.69	0.07	0.04	0.04	0.020	0.04	22.6	23.2	0.33	321	0.74	0.01
ZZ66842		1.75	17.0	2.62	2.90	0.05	0.09	0.07	0.021	0.05	16.6	25.5	0.33	139	0.65	0.01
ZZ66843		1.14	24.1	3.23	3.49	0.06	0.09	0.02	0.014	0.03	24.5	22.9	0.31	400	0.83	<0.01
ZZ66844		1.11	27.6	3.34	3.26	0.06	0.06	0.02	0.015	0.03	23.5	32.4	0.43	448	0.75	<0.01
ZZ66845		1.27	10.1	2.99	4.92	0.05	0.03	0.02	0.016	0.04	20.6	10.0	0.12	130	1.22	<0.01
ZZ66846		1.06	25.5	2.78	3.35	0.05	0.03	0.03	0.018	0.04	19.8	18.2	0.32	347	0.97	0.01
ZZ66847		0.89	21.3	2.73	3.54	0.05	0.04	0.03	0.012	0.03	21.1	18.7	0.24	294	0.88	0.01
ZZ66848		1.19	28.5	3.26	3.20	0.07	0.03	0.03	0.024	0.05	26.1	22.0	0.28	377	1.06	0.01
ZZ66849		1.62	15.2	3.01	4.04	<0.05	0.04	0.03	0.021	0.04	18.0	14.8	0.16	1760	0.88	0.01
ZZ66850		1.39	9.8	2.07	4.63	<0.05	<0.02	0.02	0.011	0.04	15.6	3.5	0.10	123	1.49	0.01
ZZ66851		1.47	10.0	1.59	4.84	<0.05	<0.02	0.04	0.014	0.04	14.2	4.4	0.15	227	1.42	0.01
ZZ66852		1.42	16.1	2.57	4.28	<0.05	<0.02	0.03	0.017	0.05	13.1	11.5	0.22	638	1.09	0.01
ZZ66853		1.38	11.7	2.30	5.19	0.05	<0.02	0.02	0.013	0.05	24.1	3.4	0.07	220	1.37	0.01
ZZ66854		1.33	17.0	1.96	4.00	0.05	<0.02	0.02	0.013	0.04	22.2	7.0	0.13	190	1.63	0.01
ZZ66855		3.79	34.0	3.30	3.92	<0.05	0.04	0.07	0.028	0.06	11.9	21.4	0.30	576	1.43	0.01
ZZ66856		1.30	22.4	2.64	4.06	0.05	0.02	0.03	0.012	0.03	25.0	5.9	0.10	372	1.02	0.01
ZZ66857		3.32	55.5	4.87	1.83	<0.05	0.07	0.02	0.022	0.04	14.4	10.1	0.15	920	1.56	0.01
ZZ66858		2.08	87.2	4.33	3.45	0.07	0.15	0.03	0.024	0.04	21.3	43.1	0.61	937	0.86	0.01

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



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66819		0.67	28.0	480	30.2	8.8	<0.001	0.01	3.06	2.5	0.3	0.3	12.7	<0.01	<0.01	6.3
ZZ66820		0.27	16.1	1250	129.5	10.4	<0.001	0.08	3.22	0.8	0.2	0.5	15.4	<0.01	0.01	0.4
ZZ66821		0.41	25.9	430	34.3	8.4	<0.001	0.02	5.62	1.9	0.8	0.4	10.1	<0.01	0.06	5.0
ZZ66822		0.30	25.6	890	27.1	7.8	<0.001	0.05	4.73	1.7	0.4	0.3	18.9	<0.01	0.04	2.8
ZZ66823		0.45	20.5	1600	28.2	12.7	<0.001	0.11	3.59	1.5	1.0	0.6	21.6	<0.01	0.06	1.2
ZZ66824		0.38	22.8	1250	31.5	10.8	<0.001	0.14	6.74	1.6	1.0	0.4	61.1	0.01	0.05	1.6
ZZ66825		0.35	16.6	1750	34.2	14.0	<0.001	0.11	2.87	0.9	0.4	0.6	37.8	<0.01	0.04	0.4
ZZ66826		0.23	31.0	470	55.9	5.5	<0.001	0.02	1.32	1.6	0.4	0.3	6.8	<0.01	0.03	8.2
ZZ66827		0.06	48.6	560	57.5	3.7	0.001	0.01	1.83	2.3	0.5	0.2	17.4	0.01	0.18	12.7
ZZ66828		<0.05	35.4	510	42.9	4.6	<0.001	0.01	1.20	2.5	0.3	0.2	17.1	<0.01	0.11	12.9
ZZ66829		0.12	31.6	490	33.5	3.5	<0.001	0.01	1.05	1.4	0.2	0.2	10.5	<0.01	0.05	7.7
ZZ66830		0.10	30.0	450	36.6	3.9	<0.001	0.01	1.08	1.4	0.5	0.2	9.4	<0.01	0.05	6.6
ZZ66831		0.15	30.7	620	42.2	3.6	<0.001	0.01	1.47	1.4	0.5	0.2	9.9	<0.01	0.08	7.2
ZZ66832		0.09	35.0	460	68.4	4.8	<0.001	0.01	1.39	1.6	0.3	0.3	8.4	<0.01	0.12	10.3
ZZ66833		0.10	27.3	600	42.5	5.2	<0.001	0.04	1.10	1.2	0.4	0.2	14.4	<0.01	0.08	4.9
ZZ66834		0.14	31.9	530	37.3	4.3	<0.001	0.03	1.11	1.4	0.5	0.2	12.7	<0.01	0.05	6.6
ZZ66835		0.12	31.9	460	35.0	3.4	<0.001	0.02	1.19	1.5	0.5	0.2	12.2	<0.01	0.04	8.5
ZZ66836		0.28	13.1	700	23.4	8.5	<0.001	0.03	2.79	0.7	0.2	0.4	8.8	<0.01	0.06	0.8
ZZ66837		0.27	14.9	570	26.0	7.8	<0.001	0.01	1.48	0.8	<0.2	0.3	10.4	<0.01	0.05	1.4
ZZ66838		0.56	20.7	600	28.2	9.3	<0.001	<0.01	1.45	1.6	0.4	0.4	15.6	<0.01	0.03	1.5
ZZ66839		0.38	14.8	460	20.2	6.2	<0.001	<0.01	1.76	1.1	0.3	0.3	10.9	<0.01	0.02	2.3
ZZ66840		0.37	27.5	880	101.0	8.3	<0.001	0.05	8.33	2.0	1.5	0.3	90.8	<0.01	0.03	2.6
ZZ66841		0.37	24.9	730	26.0	4.7	<0.001	<0.01	3.89	2.1	0.8	0.2	38.7	<0.01	0.03	5.0
ZZ66842		0.34	20.5	590	21.0	7.2	<0.001	0.08	2.54	2.0	1.1	0.2	86.5	<0.01	0.02	2.9
ZZ66843		0.20	20.6	570	24.3	3.9	<0.001	0.01	2.14	1.2	0.5	0.4	7.6	<0.01	0.04	3.5
ZZ66844		0.18	27.3	530	25.0	3.8	<0.001	<0.01	2.00	1.7	0.5	0.2	27.3	<0.01	0.04	5.9
ZZ66845		0.82	9.6	320	13.3	8.7	<0.001	<0.01	1.11	1.3	0.2	0.6	4.1	<0.01	0.04	4.8
ZZ66846		0.37	23.1	680	16.7	6.3	<0.001	<0.01	1.53	1.6	0.6	0.3	68.0	<0.01	0.03	2.8
ZZ66847		0.12	16.6	660	14.9	4.7	<0.001	0.04	1.91	0.9	0.2	0.2	4.8	<0.01	0.05	2.5
ZZ66848		0.35	25.8	570	30.5	6.4	<0.001	<0.01	2.24	1.9	0.7	0.3	17.1	<0.01	0.04	4.7
ZZ66849		0.45	15.2	800	52.1	6.0	<0.001	0.02	6.99	1.3	0.6	0.3	17.3	<0.01	0.04	2.1
ZZ66850		0.54	8.6	440	14.6	7.1	<0.001	0.01	2.17	0.6	0.5	0.5	5.6	<0.01	0.03	0.3
ZZ66851		0.37	7.8	510	16.3	10.1	<0.001	0.01	0.76	0.5	0.2	0.7	34.1	<0.01	0.04	<0.2
ZZ66852		0.55	13.9	760	17.0	11.3	<0.001	0.03	1.61	0.8	0.4	0.4	54.8	<0.01	0.03	0.4
ZZ66853		0.29	8.5	440	13.2	8.0	<0.001	0.03	2.59	0.4	0.2	0.5	5.1	<0.01	0.05	0.3
ZZ66854		0.33	12.0	550	14.0	7.5	<0.001	<0.01	1.42	0.8	<0.2	0.4	12.7	<0.01	0.06	0.8
ZZ66855		0.39	20.8	1650	51.8	8.6	<0.001	0.07	1.67	1.2	0.8	0.3	31.9	<0.01	0.07	1.4
ZZ66856		0.20	9.4	910	19.0	3.3	<0.001	0.02	1.27	0.5	0.4	0.2	5.3	<0.01	0.07	1.2
ZZ66857		0.08	34.4	920	76.0	5.0	<0.001	0.02	5.77	1.7	0.5	0.2	18.2	<0.01	0.09	2.9
ZZ66858		<0.05	41.4	570	47.3	2.5	<0.001	0.03	2.30	2.8	0.6	<0.2	22.6	<0.01	0.11	8.6

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



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66819		0.031	0.11	1.46	26	0.32	6.30	80	2.2
ZZ66820		0.015	0.16	1.18	32	0.45	4.90	75	<0.5
ZZ66821		0.019	0.11	2.12	24	0.78	6.51	102	1.8
ZZ66822		0.014	0.12	2.81	24	0.28	7.64	90	2.1
ZZ66823		0.016	0.20	3.73	33	0.31	11.95	78	1.3
ZZ66824		0.015	0.15	6.35	23	0.30	11.10	87	2.3
ZZ66825		0.019	0.12	1.52	40	0.30	6.37	82	<0.5
ZZ66826		0.008	0.06	1.17	18	0.14	5.01	92	2.5
ZZ66827		<0.005	0.04	2.41	13	0.06	7.96	120	2.2
ZZ66828		<0.005	0.05	2.76	10	0.06	7.31	97	2.4
ZZ66829		0.006	0.04	1.53	15	0.09	4.78	96	1.9
ZZ66830		0.005	0.05	1.76	15	0.09	5.45	87	1.4
ZZ66831		0.007	0.03	1.51	16	0.11	4.36	92	2.4
ZZ66832		<0.005	0.06	1.72	11	0.05	4.74	96	2.5
ZZ66833		<0.005	0.07	1.31	16	0.06	4.40	85	1.9
ZZ66834		0.006	0.05	1.67	17	0.08	5.85	93	2.4
ZZ66835		0.006	0.04	1.58	16	0.05	5.44	90	2.4
ZZ66836		0.009	0.11	1.00	26	0.20	3.28	61	<0.5
ZZ66837		0.009	0.09	0.76	24	0.17	2.96	59	<0.5
ZZ66838		0.022	0.14	0.86	40	0.37	4.14	81	<0.5
ZZ66839		0.012	0.07	0.61	24	0.20	2.43	55	<0.5
ZZ66840		0.011	0.09	5.78	19	0.19	12.75	121	2.2
ZZ66841		0.013	0.05	2.34	19	0.12	8.15	94	1.5
ZZ66842		0.010	0.07	5.00	17	0.09	6.86	80	2.7
ZZ66843		0.007	0.04	1.00	17	0.22	2.91	70	1.5
ZZ66844		0.006	0.05	1.72	15	0.09	5.42	88	2.0
ZZ66845		0.013	0.10	0.39	43	0.20	1.53	47	0.9
ZZ66846		0.013	0.06	2.10	22	0.13	5.33	68	0.8
ZZ66847		0.005	0.06	0.79	16	0.08	2.52	63	1.3
ZZ66848		0.010	0.07	0.97	22	0.18	5.58	85	1.0
ZZ66849		0.012	0.08	1.53	26	0.30	4.45	67	1.1
ZZ66850		0.017	0.09	0.60	40	0.27	1.72	37	<0.5
ZZ66851		0.025	0.15	0.63	40	0.23	2.17	35	<0.5
ZZ66852		0.021	0.11	1.09	35	0.23	3.58	64	<0.5
ZZ66853		0.016	0.09	0.56	33	0.22	2.12	41	<0.5
ZZ66854		0.012	0.10	0.60	29	0.17	2.32	48	<0.5
ZZ66855		0.008	0.10	2.12	20	0.13	9.63	66	1.1
ZZ66856		0.007	0.04	0.75	21	0.08	1.81	44	0.6
ZZ66857		<0.005	0.06	1.72	8	0.07	4.51	99	2.0
ZZ66858		<0.005	0.04	1.11	9	0.05	9.27	127	5.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66859		0.13	0.012	0.17	1.05	180.0	<0.2	<10	50	0.49	0.44	0.03	0.15	20.8	26.3	12
ZZ66860		0.24	0.009	0.19	1.87	48.2	<0.2	<10	20	0.78	0.59	0.05	0.08	84.9	43.0	18
ZZ66861		0.16	0.007	0.20	1.48	68.7	<0.2	<10	60	0.67	0.42	0.10	0.15	59.8	23.4	16
ZZ66862		0.11	0.032	0.34	1.36	925	<0.2	<10	50	0.85	0.87	0.08	0.35	43.1	55.1	15
ZZ69981		0.20	0.004	0.11	1.29	273	<0.2	<10	70	0.41	1.08	0.04	0.17	28.2	8.2	18
ZZ69982		0.28	0.003	0.06	1.33	193.0	<0.2	<10	70	0.41	0.95	0.06	0.19	33.6	10.5	18
ZZ69983		0.23	0.003	0.12	0.90	251	<0.2	<10	60	0.19	0.67	0.04	0.10	26.5	4.0	14
ZZ69984		0.16	0.002	0.15	0.36	69.6	<0.2	<10	30	0.08	0.27	0.04	0.04	5.44	1.4	4
ZZ69985		0.25	0.003	0.17	0.83	136.5	<0.2	<10	70	0.15	0.61	0.04	0.08	21.6	2.7	12
ZZ69986		0.22	0.002	0.07	0.81	217	<0.2	<10	70	0.22	0.82	0.03	0.12	31.7	4.6	13
ZZ69987		0.14	0.005	0.14	0.77	192.5	<0.2	<10	50	0.23	0.79	0.25	0.14	24.4	4.7	12
ZZ69988		0.12	0.007	0.19	0.62	43.0	<0.2	<10	60	0.14	0.29	0.06	0.10	16.20	1.7	9
ZZ69989		0.26	0.009	0.10	2.08	505	<0.2	<10	130	0.63	0.96	0.09	0.13	32.0	10.4	30
ZZ69990		0.34	0.010	0.10	2.13	206	<0.2	<10	150	0.68	0.42	0.24	0.11	33.3	13.7	31
ZZ69991		0.17	0.003	0.06	1.73	258	<0.2	<10	100	0.36	0.71	0.08	0.11	26.0	4.2	25
ZZ69992		0.19	0.008	0.17	1.83	489	<0.2	<10	110	0.54	0.91	0.08	0.12	26.7	9.1	26
ZZ69993		0.27	0.005	0.33	1.44	422	<0.2	<10	80	0.50	1.06	0.06	0.12	22.4	5.3	19
ZZ69994		0.21	0.017	0.44	1.82	623	<0.2	<10	120	0.68	1.51	0.10	0.14	32.0	7.5	24
ZZ69995		0.23	0.016	0.43	1.83	646	<0.2	<10	130	0.66	1.51	0.10	0.15	27.0	7.9	23
ZZ69996		0.20	0.011	0.46	1.77	398	<0.2	<10	90	0.42	1.19	0.09	0.14	24.8	5.4	22
ZZ69997		0.20	0.026	0.20	1.17	275	<0.2	<10	60	0.26	0.70	0.05	0.08	18.85	3.8	17
ZZ69998		0.21	0.005	0.31	1.67	467	<0.2	<10	90	0.51	1.03	0.09	0.13	24.8	5.1	22
ZZ69999		0.18	0.002	0.16	0.90	231	<0.2	<10	60	0.22	1.04	0.19	0.17	17.45	3.0	9
ZZ70000		0.27	0.006	0.17	1.53	471	<0.2	<10	100	0.52	0.90	0.11	0.15	35.5	8.5	23
ZZ64186		0.25	0.005	0.21	1.43	101.0	<0.2	<10	140	0.62	0.40	0.11	0.20	57.0	11.1	19
ZZ64187		0.21	0.006	0.47	1.48	131.5	<0.2	<10	140	0.64	0.41	0.16	0.20	48.6	8.9	21
ZZ64188		0.24	0.004	0.09	1.19	199.5	<0.2	<10	100	0.40	0.52	0.12	0.20	40.9	8.9	20
ZZ64189		0.34	0.003	0.06	1.04	70.3	<0.2	<10	50	0.33	0.39	0.06	0.25	50.9	7.5	17
ZZ64190		0.30	0.004	0.12	1.45	108.5	<0.2	<10	130	0.68	0.47	0.12	0.20	56.5	16.1	20
ZZ64191		0.31	0.006	0.11	1.60	105.5	<0.2	<10	150	0.65	0.61	0.16	0.16	60.1	10.3	21
ZZ64192		0.21	0.003	0.24	1.42	68.3	<0.2	<10	120	0.58	0.46	0.34	0.13	44.7	9.8	19
ZZ64193		0.26	0.003	0.36	1.65	163.0	<0.2	<10	150	0.90	0.59	0.12	0.22	43.7	8.9	20
ZZ64194		0.28	0.002	0.11	1.79	127.5	<0.2	<10	70	0.80	0.54	0.05	0.20	111.5	20.1	21
ZZ64195		0.31	0.003	0.09	1.68	226	<0.2	<10	140	0.88	0.45	0.07	0.29	33.4	10.5	24
ZZ64196		0.31	0.005	0.12	1.26	107.5	<0.2	<10	90	0.61	0.40	0.17	0.26	51.8	11.7	20
ZZ64197		0.24	0.007	0.15	0.96	353	<0.2	<10	90	0.42	0.65	0.06	0.33	39.8	7.4	18
ZZ64198		0.24	0.006	0.17	1.49	396	<0.2	<10	150	0.54	0.60	0.15	0.27	32.0	9.1	25
ZZ64199		0.30	0.003	0.13	1.39	406	<0.2	<10	90	0.53	0.47	0.07	0.15	35.7	6.7	16
ZZ64200		0.30	0.010	0.26	1.59	324	<0.2	<10	190	0.69	1.09	0.13	0.23	57.8	13.0	22
ZZ64201		0.32	0.008	0.08	1.11	227	<0.2	<10	110	0.51	1.09	0.15	0.24	47.6	10.6	18



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66859		2.06	39.5	3.99	2.94	<0.05	0.07	0.04	0.022	0.04	10.8	18.7	0.25	1490	1.13	0.01
ZZ66860		3.23	101.5	5.69	4.47	0.11	0.11	0.03	0.023	0.03	45.0	54.9	0.62	1030	1.19	<0.01
ZZ66861		2.20	42.5	3.87	4.39	0.07	0.08	0.03	0.016	0.04	32.1	39.5	0.51	1190	0.60	<0.01
ZZ66862		3.47	77.9	5.60	3.40	0.06	0.06	0.04	0.031	0.03	23.3	34.2	0.46	2430	1.08	<0.01
ZZ69981		1.53	17.2	3.78	4.84	<0.05	0.02	0.04	0.023	0.05	13.9	15.3	0.26	548	2.00	<0.01
ZZ69982		1.38	19.9	3.70	4.42	0.05	0.06	0.02	0.024	0.04	17.3	15.5	0.29	442	2.05	<0.01
ZZ69983		1.67	12.9	2.54	5.53	<0.05	<0.02	0.03	0.015	0.04	13.2	4.9	0.12	183	1.86	<0.01
ZZ69984		0.71	5.3	0.79	1.34	<0.05	<0.02	0.04	0.006	0.02	2.8	1.4	0.04	34	0.56	0.02
ZZ69985		1.34	10.0	1.73	4.50	<0.05	<0.02	0.04	0.014	0.04	11.9	3.8	0.10	104	1.45	0.01
ZZ69986		2.27	11.8	3.32	5.10	0.05	<0.02	0.01	0.017	0.04	16.3	3.6	0.10	638	1.49	<0.01
ZZ69987		1.25	14.6	2.11	2.56	<0.05	<0.02	0.04	0.014	0.05	12.3	7.6	0.17	230	0.91	0.01
ZZ69988		1.04	9.4	1.07	2.94	<0.05	<0.02	0.04	0.011	0.03	8.8	2.0	0.05	79	0.71	0.02
ZZ69989		3.50	28.7	3.55	6.55	0.05	<0.02	0.05	0.033	0.07	17.1	20.3	0.49	581	2.10	0.01
ZZ69990		1.81	24.8	3.57	5.30	0.05	0.05	0.06	0.032	0.07	17.3	20.3	0.61	450	1.94	0.01
ZZ69991		2.01	10.6	3.30	7.07	<0.05	<0.02	0.04	0.021	0.05	13.9	12.5	0.30	166	1.61	<0.01
ZZ69992		3.58	20.6	3.24	6.34	<0.05	<0.02	0.05	0.026	0.05	13.8	16.3	0.41	571	1.88	<0.01
ZZ69993		3.55	20.1	2.57	4.72	<0.05	<0.02	0.05	0.027	0.05	11.7	13.2	0.27	216	1.26	0.01
ZZ69994		5.00	30.0	3.22	5.43	0.07	<0.02	0.08	0.032	0.06	16.2	18.7	0.35	249	1.48	0.01
ZZ69995		4.32	29.8	3.16	5.17	<0.05	0.02	0.09	0.029	0.06	13.9	17.1	0.34	267	1.39	0.01
ZZ69996		4.48	25.7	2.76	4.76	0.05	<0.02	0.07	0.027	0.06	13.7	14.5	0.32	146	1.28	0.01
ZZ69997		2.37	14.9	1.92	4.30	<0.05	<0.02	0.07	0.018	0.04	9.8	9.6	0.23	117	0.95	0.01
ZZ69998		3.16	22.4	2.67	5.18	<0.05	<0.02	0.08	0.024	0.05	12.5	13.7	0.30	145	1.16	0.01
ZZ69999		1.95	11.3	1.76	3.31	<0.05	<0.02	0.04	0.015	0.04	9.2	5.2	0.10	159	1.10	0.01
ZZ70000		2.81	24.9	2.80	4.93	0.06	<0.02	0.04	0.024	0.05	18.0	15.6	0.36	392	1.30	0.01
ZZ64186		1.57	28.6	3.13	4.35	0.08	0.02	0.05	0.026	0.04	28.8	29.4	0.39	536	1.15	0.01
ZZ64187		2.33	30.1	2.95	4.29	0.08	0.03	0.10	0.020	0.04	26.5	24.9	0.38	318	1.24	0.01
ZZ64188		1.39	22.4	3.23	5.32	0.07	<0.02	0.03	0.025	0.05	19.7	17.5	0.29	399	1.58	0.01
ZZ64189		1.20	21.5	3.15	4.54	0.07	<0.02	0.08	0.014	0.04	25.9	17.5	0.28	284	1.41	0.01
ZZ64190		1.67	23.6	3.68	4.34	0.08	0.03	0.02	0.021	0.05	28.4	27.4	0.38	809	1.22	0.01
ZZ64191		2.45	24.9	3.26	4.32	0.09	0.07	0.03	0.024	0.05	30.7	33.2	0.39	379	0.95	0.01
ZZ64192		2.01	20.8	3.17	4.08	0.06	0.07	0.02	0.025	0.04	23.3	31.4	0.38	315	0.73	0.01
ZZ64193		3.43	38.7	3.14	4.42	0.06	0.02	0.06	0.029	0.07	22.8	14.7	0.22	378	1.36	0.01
ZZ64194		3.83	42.7	3.90	5.11	0.13	0.08	0.03	0.026	0.04	53.7	39.5	0.55	507	0.92	0.01
ZZ64195		2.58	29.7	3.53	5.49	0.06	<0.02	0.05	0.033	0.06	15.6	16.5	0.34	717	2.02	0.01
ZZ64196		1.67	31.1	2.99	3.76	0.08	0.04	0.03	0.021	0.05	27.5	24.5	0.41	467	1.37	0.01
ZZ64197		2.97	23.9	3.34	4.63	0.07	<0.02	0.06	0.026	0.06	21.7	10.6	0.19	498	1.77	0.01
ZZ64198		3.29	20.5	3.39	5.82	0.05	<0.02	0.05	0.030	0.08	15.7	15.4	0.34	525	1.69	0.01
ZZ64199		1.40	20.1	3.17	4.53	0.06	<0.02	0.05	0.022	0.04	17.6	9.5	0.23	306	1.45	0.01
ZZ64200		3.55	33.0	3.75	5.15	0.08	<0.02	0.06	0.026	0.07	28.9	20.4	0.33	672	1.66	0.01
ZZ64201		1.60	26.7	3.06	3.57	0.08	0.02	0.02	0.019	0.04	24.4	21.4	0.34	419	1.31	0.01

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66859		0.14	23.0	680	47.7	4.5	<0.001	0.03	2.01	1.3	0.4	0.2	4.8	<0.01	0.06	4.1
ZZ66860		<0.05	44.7	610	55.4	2.4	<0.001	0.05	1.27	1.9	0.9	<0.2	10.0	<0.01	0.09	16.1
ZZ66861		0.09	28.5	700	51.2	3.9	<0.001	0.02	0.83	1.2	0.2	0.2	9.8	<0.01	0.08	6.4
ZZ66862		<0.05	45.9	650	120.5	2.9	<0.001	0.06	2.96	1.6	0.6	0.5	14.5	<0.01	0.23	5.7
ZZ69981		0.98	17.1	580	18.2	9.7	<0.001	0.01	1.95	1.5	0.7	0.5	6.8	<0.01	0.04	2.1
ZZ69982		1.04	20.7	560	16.4	8.5	<0.001	<0.01	2.02	1.9	0.8	0.4	9.0	<0.01	0.05	4.8
ZZ69983		0.58	10.3	480	12.3	7.4	<0.001	0.01	1.24	0.7	0.6	0.7	6.8	<0.01	0.04	0.2
ZZ69984		0.18	3.5	780	4.2	3.0	<0.001	0.03	0.41	0.2	0.3	<0.2	6.5	<0.01	0.02	<0.2
ZZ69985		0.28	8.2	730	10.2	6.0	<0.001	0.03	0.99	0.3	0.5	0.5	6.5	<0.01	0.02	<0.2
ZZ69986		0.48	8.7	760	13.2	11.0	<0.001	0.01	1.33	0.6	0.5	0.6	5.5	<0.01	0.04	0.3
ZZ69987		0.17	13.4	1820	9.7	5.7	<0.001	0.05	1.51	0.4	0.6	0.3	27.6	<0.01	0.02	0.2
ZZ69988		0.12	5.1	1010	6.9	4.5	<0.001	0.03	0.56	0.2	0.3	0.4	7.0	<0.01	0.02	<0.2
ZZ69989		0.80	25.8	810	22.9	14.0	<0.001	0.03	2.22	1.9	1.4	0.7	13.6	<0.01	0.04	0.6
ZZ69990		1.43	26.8	1010	15.6	11.3	<0.001	<0.01	1.70	3.6	1.2	0.6	19.9	<0.01	0.06	4.2
ZZ69991		1.10	11.2	490	19.6	8.6	<0.001	<0.01	1.13	1.6	1.3	0.7	9.2	<0.01	0.05	0.8
ZZ69992		0.62	18.5	860	20.5	12.8	<0.001	0.03	1.85	1.1	1.2	0.6	11.5	<0.01	0.04	0.3
ZZ69993		0.29	14.5	1120	18.5	10.9	<0.001	0.07	2.23	0.5	0.7	0.5	9.3	<0.01	0.04	0.2
ZZ69994		0.37	21.1	1380	25.7	12.8	<0.001	0.07	3.42	0.8	0.8	0.6	13.7	<0.01	0.05	0.4
ZZ69995		0.37	20.4	1460	22.4	11.9	0.001	0.08	2.90	0.8	1.3	0.5	13.8	<0.01	0.04	0.4
ZZ69996		0.45	16.7	1640	17.9	12.1	<0.001	0.09	2.36	0.5	0.7	0.5	11.9	<0.01	0.01	0.2
ZZ69997		0.25	10.7	1140	13.2	8.1	<0.001	0.08	1.39	0.2	0.8	0.4	8.4	<0.01	0.02	<0.2
ZZ69998		0.34	14.6	1300	15.9	10.6	0.001	0.08	1.56	0.5	0.9	0.5	12.3	<0.01	0.03	0.2
ZZ69999		0.44	7.3	1490	35.6	6.7	<0.001	0.04	2.36	0.4	0.3	0.4	18.2	<0.01	0.02	0.3
ZZ70000		0.41	19.5	990	15.1	10.2	<0.001	0.03	1.92	1.1	0.6	0.5	12.2	<0.01	0.04	0.6
ZZ64186		0.37	26.0	770	21.1	6.6	<0.001	0.04	2.03	1.7	0.9	0.3	14.3	<0.01	0.03	2.4
ZZ64187		0.40	24.8	890	19.3	7.8	0.001	0.05	2.44	2.5	1.0	0.4	16.8	<0.01	0.03	1.9
ZZ64188		0.54	20.3	620	20.5	7.6	<0.001	0.03	4.67	1.1	0.8	0.5	13.0	<0.01	0.06	0.9
ZZ64189		0.43	19.6	610	17.6	6.0	<0.001	0.02	2.80	1.0	1.0	0.4	8.0	<0.01	0.05	1.5
ZZ64190		0.35	24.9	730	21.8	6.7	<0.001	0.02	2.68	1.6	0.3	0.3	12.0	<0.01	0.03	2.7
ZZ64191		0.44	26.8	560	18.7	8.0	<0.001	0.02	2.36	2.3	0.3	0.4	13.3	<0.01	0.04	4.5
ZZ64192		0.31	23.2	860	23.2	7.5	0.001	0.05	1.56	2.1	0.7	0.3	18.3	<0.01	0.03	3.0
ZZ64193		0.26	23.1	1740	28.8	10.3	<0.001	0.11	3.80	0.5	1.2	0.5	11.7	<0.01	0.06	0.3
ZZ64194		0.26	34.8	750	35.0	5.9	<0.001	0.03	8.48	1.9	0.3	0.4	9.9	<0.01	0.05	6.7
ZZ64195		0.55	22.4	1030	34.3	11.6	<0.001	0.07	2.59	0.7	0.8	0.7	11.2	<0.01	0.07	0.2
ZZ64196		0.58	28.7	790	23.3	5.7	0.001	0.01	3.04	2.2	0.7	0.3	15.6	<0.01	0.03	6.7
ZZ64197		0.56	17.5	920	33.1	15.3	0.001	0.07	4.54	0.9	0.3	0.6	9.4	<0.01	0.05	0.6
ZZ64198		0.69	19.9	910	29.8	15.5	0.001	0.06	3.19	1.4	0.7	0.6	17.3	<0.01	0.04	0.7
ZZ64199		0.34	16.8	770	22.4	9.2	<0.001	0.05	5.44	0.5	0.6	0.5	9.4	<0.01	0.06	0.3
ZZ64200		0.43	26.4	1160	26.1	12.0	<0.001	0.07	3.89	1.3	0.8	0.5	14.9	<0.01	0.05	1.1
ZZ64201		0.44	25.7	580	19.9	5.6	<0.001	0.02	2.97	1.8	<0.2	0.3	13.8	<0.01	0.06	4.9



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66859		0.005	0.06	1.05	12	0.06	2.94	76	1.7
ZZ66860		<0.005	0.04	2.97	10	<0.05	6.80	123	4.2
ZZ66861		<0.005	0.04	1.21	12	0.05	4.49	99	2.1
ZZ66862		<0.005	0.05	2.50	10	<0.05	5.48	140	1.7
ZZ69981		0.024	0.14	0.70	43	0.29	2.69	64	<0.5
ZZ69982		0.023	0.11	0.70	36	0.21	3.31	67	1.8
ZZ69983		0.028	0.15	0.57	47	0.23	2.04	38	<0.5
ZZ69984		0.010	0.05	0.51	11	0.05	0.84	10	<0.5
ZZ69985		0.015	0.14	0.57	37	0.19	1.85	30	<0.5
ZZ69986		0.023	0.13	0.63	40	0.18	2.38	41	<0.5
ZZ69987		0.010	0.08	0.91	16	0.08	4.01	41	<0.5
ZZ69988		0.008	0.09	0.67	18	0.09	1.55	18	<0.5
ZZ69989		0.030	0.21	1.91	54	0.30	6.66	80	<0.5
ZZ69990		0.048	0.19	1.37	53	0.31	8.26	86	1.4
ZZ69991		0.031	0.23	0.96	63	0.31	3.72	40	<0.5
ZZ69992		0.026	0.23	1.67	50	0.28	4.77	64	<0.5
ZZ69993		0.014	0.16	1.85	34	0.19	5.05	52	<0.5
ZZ69994		0.017	0.18	2.65	39	0.22	8.96	73	<0.5
ZZ69995		0.015	0.17	2.72	37	0.23	8.33	71	<0.5
ZZ69996		0.014	0.14	2.24	32	0.20	5.59	54	<0.5
ZZ69997		0.010	0.13	1.31	29	0.15	3.25	37	<0.5
ZZ69998		0.017	0.17	1.99	36	0.22	4.86	52	<0.5
ZZ69999		0.010	0.10	1.16	22	0.13	2.99	55	<0.5
ZZ70000		0.024	0.16	1.91	41	0.26	6.24	69	<0.5
ZZ64186		0.016	0.09	1.94	27	0.19	7.95	80	0.8
ZZ64187		0.019	0.11	2.83	30	0.23	10.90	75	0.7
ZZ64188		0.026	0.13	1.43	41	0.28	4.08	76	<0.5
ZZ64189		0.023	0.08	0.85	34	0.32	3.16	69	<0.5
ZZ64190		0.016	0.10	1.32	30	0.24	5.47	80	0.6
ZZ64191		0.013	0.10	2.61	30	0.18	8.01	81	2.0
ZZ64192		0.010	0.09	1.75	24	0.15	7.97	87	2.4
ZZ64193		0.009	0.13	2.86	29	0.21	8.62	71	<0.5
ZZ64194		0.010	0.08	1.42	22	0.11	5.58	111	2.1
ZZ64195		0.024	0.14	1.79	48	0.28	7.61	82	<0.5
ZZ64196		0.030	0.08	1.41	31	0.27	7.06	104	1.5
ZZ64197		0.025	0.14	1.18	42	0.29	3.55	78	<0.5
ZZ64198		0.030	0.17	1.52	52	0.32	4.23	97	<0.5
ZZ64199		0.013	0.12	1.49	36	0.16	3.13	58	<0.5
ZZ64200		0.021	0.15	2.10	39	0.28	6.09	86	<0.5
ZZ64201		0.023	0.08	1.20	30	0.27	4.89	86	0.9



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64202		0.32	0.006	0.09	1.30	165.0	<0.2	<10	80	0.49	1.21	0.12	0.17	65.5	12.5	20
ZZ64203		0.30	0.003	0.10	1.28	119.0	<0.2	<10	90	0.55	0.64	0.05	0.19	48.9	7.0	20
ZZ64204		0.43	0.005	0.15	1.63	190.5	<0.2	<10	90	0.69	0.77	0.07	0.22	77.7	14.3	21
ZZ64205		0.29	0.005	0.27	1.31	295	<0.2	<10	100	0.73	5.30	0.14	0.26	70.7	14.1	18
ZZ64206		0.35	0.003	0.13	1.48	57.9	<0.2	<10	130	0.63	0.51	0.18	0.16	69.8	11.0	19
ZZ64207		0.32	0.007	0.16	1.34	56.7	<0.2	<10	120	0.74	0.43	0.17	0.26	68.7	14.1	20
ZZ64208		0.29	0.003	0.08	1.36	51.2	<0.2	<10	110	0.56	0.38	0.09	0.17	58.8	10.1	19
ZZ64209		0.39	0.003	0.07	1.23	71.2	<0.2	<10	90	0.45	0.42	0.09	0.17	63.4	10.4	17
ZZ64210		0.33	0.005	0.08	1.31	94.4	<0.2	<10	110	0.65	0.48	0.05	0.21	63.4	10.9	19
ZZ64211		0.35	0.005	0.10	1.43	80.0	<0.2	<10	110	0.56	0.34	0.11	0.21	66.8	11.9	20
ZZ64212		0.31	0.008	0.09	1.17	63.4	<0.2	<10	100	0.50	0.26	0.19	0.31	48.9	10.2	19
ZZ64213		0.26	0.004	0.29	1.75	88.6	<0.2	<10	170	0.78	0.43	0.07	0.23	46.7	14.9	23
ZZ64214		0.31	0.005	0.10	1.26	84.7	<0.2	<10	80	0.55	0.30	0.10	0.22	56.4	13.5	18
ZZ64215		0.32	0.006	0.11	1.31	69.7	<0.2	<10	90	0.46	0.31	0.09	0.22	47.1	12.2	19
ZZ64216		0.37	0.004	0.08	1.29	63.9	<0.2	<10	110	0.44	0.29	0.11	0.28	44.3	12.3	19
ZZ64217		0.30	0.008	0.13	1.38	77.9	<0.2	<10	90	0.53	0.33	0.08	0.18	47.9	13.2	21
ZZ64218		0.42	0.009	0.18	1.18	73.5	<0.2	<10	90	0.52	0.32	0.11	0.27	49.8	11.8	18
ZZ64219		0.39	0.010	0.13	1.18	112.0	<0.2	<10	100	0.58	0.33	0.10	0.25	45.0	12.0	17
ZZ64220		0.43	0.006	0.18	1.36	70.0	<0.2	<10	100	0.70	0.43	0.06	0.14	50.3	15.7	17
ZZ64221		0.44	0.004	0.12	1.65	77.2	<0.2	<10	80	0.58	0.41	0.08	0.10	50.1	15.3	19
ZZ64222		0.28	0.004	0.10	1.35	119.5	<0.2	<10	70	0.51	0.38	0.11	0.14	46.0	16.0	16
ZZ64223		0.26	0.003	0.17	1.42	30.4	<0.2	<10	100	0.64	0.41	0.07	0.09	29.7	17.4	16
ZZ64224		0.37	0.010	0.12	0.95	103.5	<0.2	<10	80	0.51	0.32	0.11	0.17	52.1	11.8	13
ZZ64225		0.29	0.018	0.08	1.28	151.5	<0.2	<10	70	0.57	0.27	0.08	0.25	41.4	13.5	20
ZZ64226		0.26	0.014	0.17	1.25	272	<0.2	<10	70	0.49	0.33	0.06	0.23	34.5	11.3	15
ZZ64227		0.28	0.010	0.11	0.77	84.9	<0.2	<10	100	0.47	0.28	0.15	0.16	50.2	10.6	11
ZZ64228		0.35	0.005	0.11	1.09	46.8	<0.2	<10	100	0.56	0.28	0.09	0.22	50.3	12.4	16
ZZ64229		0.20	0.009	0.57	1.28	107.5	<0.2	<10	140	0.65	0.41	0.10	0.19	31.9	11.6	17
ZZ64230		0.31	0.003	0.23	1.63	35.2	<0.2	<10	120	0.57	0.37	0.07	0.26	48.2	14.5	23
ZZ64231		0.40	0.004	0.12	1.38	29.3	<0.2	<10	90	0.47	0.30	0.10	0.22	59.4	13.7	18
ZZ64232		0.30	0.004	0.13	1.21	54.4	<0.2	<10	70	0.39	0.29	0.13	0.18	52.8	12.3	18
ZZ64233		0.32	0.003	0.14	1.53	68.1	<0.2	<10	170	0.59	0.41	0.09	0.23	40.3	13.8	21
ZZ64234		0.38	0.005	0.17	1.48	153.0	<0.2	<10	110	0.56	0.34	0.06	0.23	43.2	14.0	20
ZZ64235		0.43	0.004	0.14	1.40	91.2	<0.2	<10	100	0.56	0.37	0.07	0.15	41.9	13.5	18
ZZ64236		0.23	0.002	0.13	1.59	63.4	<0.2	<10	90	0.75	0.43	0.14	0.13	76.4	15.8	21
ZZ64237		0.27	0.003	0.10	0.80	87.7	<0.2	<10	120	0.41	0.39	0.13	0.17	53.5	11.5	11
ZZ64238		0.34	0.004	0.13	1.46	138.5	<0.2	<10	110	0.69	0.49	0.09	0.17	64.2	14.4	19
ZZ64239		0.30	0.002	0.23	1.30	58.2	<0.2	<10	90	0.53	0.46	0.30	0.17	65.5	11.3	17
ZZ64240		0.31	0.003	0.16	1.39	88.2	<0.2	<10	90	0.65	0.59	0.12	0.21	79.2	13.6	19
ZZ64241		0.35	0.010	0.15	1.22	517	<0.2	<10	70	0.58	1.12	0.08	0.48	72.6	14.5	16



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

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CERTIFICATE OF ANALYSIS WH12162747

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ64202		2.06	33.4	3.32	4.26	0.11	0.04	0.02	0.019	0.04	34.4	30.9	0.44	416	1.28	0.01
ZZ64203		2.12	27.7	2.99	5.06	0.07	<0.02	0.03	0.020	0.04	24.9	18.0	0.25	220	1.56	0.01
ZZ64204		2.79	34.9	3.63	4.93	0.10	0.03	0.03	0.022	0.05	41.6	34.3	0.47	686	1.02	0.01
ZZ64205		2.59	38.6	3.46	4.01	0.09	0.03	0.02	0.020	0.04	36.5	29.2	0.38	515	1.15	0.01
ZZ64206		1.51	30.3	3.24	4.30	0.10	0.04	0.02	0.020	0.04	36.3	34.0	0.45	366	0.87	0.01
ZZ64207		1.98	36.9	3.33	4.27	0.11	0.03	0.02	0.020	0.04	35.6	34.2	0.45	453	1.22	0.01
ZZ64208		1.34	25.7	3.39	4.37	0.09	0.03	0.02	0.019	0.03	29.8	30.7	0.37	316	1.18	0.01
ZZ64209		1.12	27.2	3.28	4.08	0.08	0.03	0.01	0.018	0.03	31.6	32.0	0.40	374	0.93	0.01
ZZ64210		1.50	28.8	3.42	4.40	0.08	0.02	0.02	0.019	0.04	32.0	27.4	0.37	463	1.19	0.01
ZZ64211		1.13	28.0	3.31	4.39	0.10	0.03	0.02	0.017	0.04	34.0	32.8	0.45	494	1.13	0.01
ZZ64212		0.67	29.3	2.92	3.71	0.08	0.12	<0.01	0.016	0.04	25.7	26.5	0.43	357	1.24	0.01
ZZ64213		2.95	39.3	3.98	5.16	0.07	0.04	0.04	0.026	0.05	24.5	33.6	0.47	694	1.26	0.01
ZZ64214		1.17	31.4	3.37	4.02	0.07	0.02	0.02	0.022	0.04	27.0	28.7	0.43	573	1.10	0.01
ZZ64215		1.06	29.6	3.41	4.12	0.07	0.03	0.02	0.016	0.04	22.2	27.8	0.42	511	1.26	0.01
ZZ64216		1.00	27.0	3.26	4.04	0.07	0.04	0.03	0.019	0.04	21.7	26.5	0.40	489	1.33	0.01
ZZ64217		1.50	27.6	3.42	4.45	0.06	0.02	0.02	0.023	0.05	23.3	22.7	0.41	535	1.34	0.01
ZZ64218		1.26	29.4	3.21	3.85	0.07	0.02	0.03	0.024	0.06	24.1	20.6	0.36	490	1.57	0.01
ZZ64219		1.36	26.4	3.11	3.93	0.06	0.02	0.02	0.021	0.05	22.4	20.1	0.32	485	1.34	<0.01
ZZ64220		1.45	36.3	3.79	4.05	0.06	0.04	0.03	0.025	0.05	23.3	36.5	0.37	708	0.95	<0.01
ZZ64221		1.75	35.4	3.95	4.62	0.05	0.04	0.01	0.016	0.04	23.0	51.8	0.54	593	0.62	<0.01
ZZ64222		1.29	34.9	3.60	4.02	0.07	0.06	0.01	0.018	0.04	21.4	38.7	0.46	546	0.72	<0.01
ZZ64223		2.50	38.6	3.61	4.30	<0.05	0.06	0.03	0.023	0.05	13.8	47.6	0.38	762	1.09	0.01
ZZ64224		0.76	29.9	3.04	2.98	0.07	0.06	0.02	0.013	0.04	26.4	23.9	0.32	448	0.86	<0.01
ZZ64225		1.03	26.5	3.15	3.61	0.06	0.09	0.03	0.023	0.04	21.2	28.3	0.40	347	1.64	0.01
ZZ64226		1.33	25.1	3.06	3.55	0.05	0.03	0.03	0.023	0.06	16.9	14.5	0.28	699	1.15	0.01
ZZ64227		1.06	21.9	2.79	2.24	0.05	0.04	0.02	0.020	0.04	25.0	9.5	0.22	568	0.97	<0.01
ZZ64228		1.39	29.3	3.10	3.45	0.05	0.04	0.02	0.018	0.05	23.5	18.1	0.28	482	1.23	0.01
ZZ64229		2.22	32.6	3.43	4.01	<0.05	0.03	0.03	0.026	0.06	14.9	19.9	0.32	602	1.31	0.01
ZZ64230		1.97	35.8	3.86	5.08	0.08	0.04	0.03	0.025	0.05	23.3	30.7	0.48	631	1.60	0.01
ZZ64231		1.19	31.6	3.48	4.30	0.08	0.05	0.02	0.017	0.04	27.9	36.0	0.50	572	0.91	0.01
ZZ64232		1.10	29.4	3.12	3.89	0.07	0.03	0.01	0.018	0.03	24.1	27.5	0.43	472	1.00	<0.01
ZZ64233		2.51	36.3	3.74	4.68	0.05	0.05	0.01	0.021	0.05	20.7	32.8	0.45	573	1.18	0.01
ZZ64234		2.86	34.9	3.53	4.54	0.07	0.06	0.04	0.020	0.04	21.2	30.6	0.44	516	1.19	<0.01
ZZ64235		2.85	31.5	3.47	4.15	0.05	0.03	0.02	0.021	0.04	21.1	30.5	0.42	537	0.95	<0.01
ZZ64236		3.62	35.1	4.36	5.02	0.07	0.07	0.03	0.029	0.04	36.9	48.0	0.46	584	0.69	0.01
ZZ64237		2.84	18.6	3.99	3.05	0.05	0.02	0.02	0.020	0.05	28.0	10.9	0.16	1640	0.86	0.01
ZZ64238		3.25	31.3	4.00	4.35	0.06	0.07	0.03	0.031	0.04	30.5	33.4	0.40	582	0.88	0.01
ZZ64239		1.78	30.0	3.56	3.76	0.08	0.08	0.03	0.022	0.04	32.4	32.7	0.42	485	0.86	0.01
ZZ64240		1.98	35.2	3.53	4.46	0.08	0.03	0.02	0.020	0.04	39.4	38.9	0.47	391	1.01	0.01
ZZ64241		2.77	37.2	3.89	3.94	0.08	0.04	0.01	0.027	0.03	36.0	29.2	0.37	489	1.06	0.01

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ64202		0.43	28.7	600	23.7	4.8	0.001	0.01	2.70	1.7	0.6	0.3	13.8	<0.01	0.03	7.8
ZZ64203		0.33	19.0	930	19.3	5.7	<0.001	0.05	2.32	0.5	0.9	0.5	8.4	<0.01	0.02	0.5
ZZ64204		0.31	27.5	690	26.7	6.6	0.001	0.02	2.81	1.6	0.2	0.3	9.8	<0.01	0.05	5.6
ZZ64205		0.35	31.3	740	27.1	5.1	<0.001	0.03	4.88	2.1	0.4	0.3	15.1	<0.01	0.03	6.1
ZZ64206		0.30	28.7	600	18.4	6.3	<0.001	0.03	1.76	2.1	0.8	0.3	13.9	<0.01	0.03	6.4
ZZ64207		0.42	30.0	790	22.8	5.2	<0.001	0.03	1.74	2.6	0.5	0.3	17.4	<0.01	0.03	8.4
ZZ64208		0.32	25.9	790	18.8	6.3	<0.001	0.04	1.59	1.5	0.5	0.3	9.7	<0.01	0.03	2.7
ZZ64209		0.31	27.0	500	18.9	5.3	0.001	0.03	2.30	1.5	0.4	0.3	9.4	<0.01	0.03	4.2
ZZ64210		0.35	25.1	680	22.0	6.8	0.001	0.04	3.23	1.4	0.7	0.3	8.7	<0.01	0.05	2.6
ZZ64211		0.41	27.0	690	20.1	6.3	<0.001	0.03	2.11	2.0	0.3	0.3	12.9	<0.01	0.04	5.8
ZZ64212		0.28	26.1	780	17.8	3.8	<0.001	0.02	3.00	2.5	0.4	0.3	17.7	<0.01	0.04	9.2
ZZ64213		0.39	30.1	890	35.3	8.1	<0.001	0.05	2.75	1.9	0.7	0.4	10.9	<0.01	0.05	2.8
ZZ64214		0.38	28.6	610	31.6	4.8	<0.001	<0.01	3.22	2.0	0.3	0.3	12.4	<0.01	0.02	6.0
ZZ64215		0.39	28.9	590	29.0	5.6	<0.001	<0.01	2.47	1.9	0.4	0.3	11.2	<0.01	0.04	5.3
ZZ64216		0.55	28.7	610	23.0	5.8	0.001	<0.01	2.11	2.1	0.6	0.3	12.1	<0.01	0.03	5.3
ZZ64217		0.58	28.2	550	34.8	7.5	<0.001	<0.01	2.07	2.2	0.4	0.4	10.2	<0.01	0.05	3.2
ZZ64218		0.46	26.8	700	51.3	8.1	0.001	0.02	2.21	2.0	0.9	0.3	15.3	<0.01	0.06	4.2
ZZ64219		0.42	25.8	590	29.4	7.6	<0.001	<0.01	2.89	1.8	0.3	0.4	13.0	<0.01	0.03	2.8
ZZ64220		0.26	29.5	600	34.3	7.6	<0.001	<0.01	3.65	2.2	0.3	0.3	10.7	<0.01	0.03	5.0
ZZ64221		0.16	32.2	490	34.4	5.1	<0.001	<0.01	1.49	1.7	0.2	0.3	13.0	<0.01	0.03	6.0
ZZ64222		0.16	31.7	540	29.8	3.7	0.001	<0.01	2.36	1.9	0.2	0.2	15.5	<0.01	0.04	8.6
ZZ64223		0.24	29.5	620	34.2	7.2	<0.001	0.01	1.06	1.6	0.6	0.3	11.2	<0.01	0.05	3.2
ZZ64224		0.22	26.3	510	32.5	4.5	<0.001	<0.01	6.00	2.1	0.3	0.2	14.3	<0.01	0.03	8.7
ZZ64225		0.75	30.5	280	28.8	6.2	<0.001	<0.01	2.66	2.2	0.8	0.3	11.0	<0.01	0.03	6.9
ZZ64226		0.35	18.8	880	42.1	9.3	0.001	0.03	2.86	1.1	0.4	0.3	8.9	<0.01	0.02	1.3
ZZ64227		0.28	21.5	530	35.6	5.2	<0.001	<0.01	3.23	2.3	0.5	0.3	14.2	<0.01	0.04	6.8
ZZ64228		0.43	27.2	610	34.3	7.3	<0.001	0.01	1.74	1.7	0.5	0.3	13.5	<0.01	0.04	3.9
ZZ64229		0.42	26.2	690	84.3	8.8	0.001	0.02	3.61	1.6	0.2	0.4	12.5	<0.01	0.05	1.8
ZZ64230		0.50	31.0	680	31.7	8.3	0.001	<0.01	1.54	2.1	0.5	0.4	12.7	<0.01	0.05	3.6
ZZ64231		0.26	31.2	520	24.1	4.2	<0.001	<0.01	1.38	2.1	0.5	0.2	13.3	<0.01	0.04	9.0
ZZ64232		0.39	28.0	630	20.1	4.3	0.001	<0.01	1.67	2.0	0.2	0.3	14.7	<0.01	0.01	7.4
ZZ64233		0.33	30.3	700	30.8	6.8	<0.001	0.01	1.26	1.9	0.2	0.3	11.7	<0.01	0.03	3.4
ZZ64234		0.40	30.0	580	37.3	6.6	0.001	<0.01	1.60	2.0	0.3	0.4	9.2	<0.01	0.04	4.0
ZZ64235		0.24	27.4	650	31.9	5.7	<0.001	<0.01	1.21	1.6	0.2	0.3	10.3	<0.01	0.04	2.8
ZZ64236		0.24	30.4	700	32.9	6.9	<0.001	0.01	1.61	1.9	0.3	0.3	10.9	<0.01	0.03	5.3
ZZ64237		0.23	17.8	850	20.7	7.2	<0.001	0.03	1.38	1.2	0.2	0.3	11.8	<0.01	0.03	2.0
ZZ64238		0.32	28.2	650	35.3	7.1	<0.001	<0.01	1.73	2.0	<0.2	0.4	9.1	<0.01	0.04	4.3
ZZ64239		0.24	28.9	640	23.3	4.4	0.001	<0.01	2.03	2.1	0.2	0.2	17.9	<0.01	0.02	7.0
ZZ64240		0.29	32.8	580	28.5	4.7	<0.001	<0.01	1.95	1.9	0.4	0.3	14.3	<0.01	0.03	7.9
ZZ64241		0.29	30.6	650	33.1	4.5	<0.001	<0.01	3.81	1.7	0.5	0.3	12.0	<0.01	0.04	5.5

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64202		0.023	0.06	1.37	29	0.17	5.00	91	1.5
ZZ64203		0.015	0.12	1.19	39	0.26	3.63	66	<0.5
ZZ64204		0.012	0.09	1.69	26	0.20	5.08	94	1.2
ZZ64205		0.018	0.07	1.68	26	0.16	7.36	86	1.0
ZZ64206		0.012	0.08	1.53	24	0.16	7.28	87	1.6
ZZ64207		0.022	0.08	1.87	28	0.18	8.69	93	1.5
ZZ64208		0.015	0.09	0.92	29	0.23	5.24	72	1.0
ZZ64209		0.015	0.07	1.03	24	0.15	4.78	80	1.0
ZZ64210		0.018	0.07	1.34	29	0.22	5.31	81	0.6
ZZ64211		0.020	0.08	1.52	28	0.21	6.33	83	0.8
ZZ64212		0.031	0.07	1.78	28	0.17	7.90	86	5.6
ZZ64213		0.015	0.12	2.15	30	0.25	6.53	96	1.1
ZZ64214		0.019	0.07	1.54	24	0.18	6.23	87	0.8
ZZ64215		0.019	0.07	1.42	26	0.23	4.97	88	0.9
ZZ64216		0.024	0.07	1.24	29	0.25	5.76	84	1.5
ZZ64217		0.026	0.09	1.37	33	0.22	5.80	87	0.8
ZZ64218		0.021	0.10	1.45	29	0.26	6.06	93	0.8
ZZ64219		0.019	0.08	1.35	27	0.19	5.95	85	0.7
ZZ64220		0.009	0.07	1.71	19	0.12	6.34	88	1.0
ZZ64221		0.005	0.05	1.62	16	0.06	5.45	94	1.3
ZZ64222		0.007	0.04	1.52	15	0.07	6.02	88	2.3
ZZ64223		0.008	0.08	1.56	16	0.06	6.59	80	1.6
ZZ64224		0.011	0.04	1.43	17	0.10	6.91	77	3.1
ZZ64225		0.033	0.08	0.99	33	0.35	4.33	92	3.6
ZZ64226		0.014	0.10	1.16	25	0.15	4.20	83	0.8
ZZ64227		0.014	0.04	1.42	18	0.27	8.21	78	1.8
ZZ64228		0.017	0.07	1.45	24	0.18	6.14	89	1.0
ZZ64229		0.013	0.09	1.64	26	0.19	5.08	96	0.9
ZZ64230		0.019	0.10	1.63	31	0.22	5.65	98	1.1
ZZ64231		0.013	0.05	1.50	20	0.11	6.33	90	2.1
ZZ64232		0.019	0.04	1.43	25	0.18	6.15	83	1.5
ZZ64233		0.012	0.07	1.87	26	0.18	6.35	95	1.4
ZZ64234		0.015	0.07	1.67	27	0.29	5.50	97	1.6
ZZ64235		0.011	0.06	1.80	23	0.12	6.10	88	0.7
ZZ64236		0.006	0.06	1.31	21	0.08	5.38	97	2.2
ZZ64237		0.010	0.09	1.35	19	0.13	5.72	44	0.6
ZZ64238		0.010	0.09	1.21	25	0.14	7.06	94	1.9
ZZ64239		0.010	0.04	1.55	19	0.12	9.75	80	2.5
ZZ64240		0.014	0.04	1.43	22	0.16	6.82	94	1.3
ZZ64241		0.013	0.06	1.57	22	0.13	5.55	120	1.3



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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ64242		0.20	0.003	0.14	1.32	184.5	<0.2	<10	80	0.40	0.87	0.06	0.15	73.7	11.1	19
ZZ64243		0.26	0.004	0.08	1.46	359	<0.2	<10	120	0.71	1.12	0.05	0.16	58.1	12.8	20
ZZ64244		0.21	0.007	0.04	1.20	266	<0.2	<10	60	0.43	0.54	0.09	0.35	51.8	11.4	18
ZZ64245		0.28	0.007	0.35	1.05	194.5	<0.2	<10	140	0.73	0.93	0.11	0.14	60.9	11.2	12
ZZ65570		0.26	0.004	0.24	1.36	65.6	<0.2	<10	120	0.59	0.32	0.08	0.19	42.1	11.8	18
ZZ65571		0.36	0.004	0.13	1.35	53.5	<0.2	<10	110	0.43	0.30	0.08	0.17	39.8	10.6	19
ZZ65572		0.35	0.004	0.21	1.62	97.0	<0.2	<10	120	0.51	0.37	0.09	0.18	47.1	13.8	23
ZZ65573		0.57	0.004	0.17	1.38	68.2	<0.2	<10	90	0.55	0.34	0.08	0.18	48.7	14.9	19
ZZ65574		0.26	0.005	0.33	1.34	61.6	<0.2	<10	210	0.60	0.37	0.15	0.24	27.6	19.3	19
ZZ65575		0.46	0.006	0.17	1.61	86.5	<0.2	<10	120	0.60	0.36	0.09	0.23	34.5	11.5	23
ZZ65576		0.37	0.005	0.11	1.10	35.1	<0.2	<10	90	0.48	0.23	0.13	0.34	33.3	12.1	18
ZZ65577		0.44	0.004	0.07	1.21	71.1	<0.2	<10	100	0.45	0.34	0.10	0.20	35.2	12.0	19
ZZ65578		0.55	0.005	0.08	1.31	50.5	<0.2	<10	100	0.52	0.29	0.10	0.31	40.0	11.2	21
ZZ65579		0.41	0.026	0.07	1.21	63.9	<0.2	<10	80	0.44	0.30	0.09	0.20	37.5	9.9	19
ZZ65580		0.30	0.003	0.07	1.39	46.6	<0.2	<10	80	0.45	0.29	0.07	0.21	30.4	8.9	21
ZZ65581		0.40	0.005	0.08	1.26	59.3	<0.2	<10	100	0.41	0.30	0.07	0.18	25.3	7.9	20
ZZ65582		0.29	0.002	0.17	0.78	37.8	<0.2	<10	60	0.23	0.26	0.04	0.13	21.1	5.4	12
ZZ65583		0.45	0.003	0.07	1.07	40.0	<0.2	<10	80	0.36	0.28	0.13	0.21	29.8	8.4	19
ZZ65584		0.40	0.004	0.10	1.06	30.8	<0.2	<10	100	0.49	0.25	0.12	0.20	31.5	10.4	17
ZZ65585		0.45	0.005	0.20	0.81	51.4	<0.2	<10	120	0.48	0.32	0.27	0.19	27.0	10.6	13
ZZ65586		0.47	0.005	0.10	1.00	86.8	<0.2	<10	80	0.43	0.30	0.08	0.20	25.9	11.4	16
ZZ65587		0.37	0.003	0.10	1.15	21.1	<0.2	<10	50	0.29	0.32	0.08	0.13	36.9	13.3	17
ZZ65588		0.41	0.001	0.10	1.14	17.2	<0.2	<10	100	0.37	0.31	0.08	0.16	31.5	6.8	18
ZZ65589		0.31	0.002	0.10	1.04	57.5	<0.2	<10	90	0.37	0.31	0.08	0.18	28.0	12.1	17
ZZ65590		0.33	0.003	0.09	0.91	45.0	<0.2	<10	140	0.40	0.19	0.23	0.34	29.0	7.5	19
ZZ65591		0.42	0.004	0.11	1.07	23.4	<0.2	<10	90	0.37	0.25	0.13	0.27	26.9	9.4	19
ZZ65592		0.52	0.003	0.09	1.24	31.8	<0.2	<10	100	0.49	0.27	0.14	0.20	38.5	10.7	19
ZZ65593		0.46	0.003	0.11	1.56	48.4	<0.2	<10	100	0.50	0.33	0.11	0.17	34.8	8.8	27
ZZ65594		0.56	0.003	0.09	1.44	31.3	<0.2	<10	80	0.39	0.28	0.11	0.18	32.9	9.2	30
ZZ65595		0.43	0.003	0.05	1.38	54.4	<0.2	<10	90	0.53	0.33	0.07	0.20	32.1	12.3	19
ZZ65596		0.55	0.004	0.08	1.22	62.0	<0.2	<10	90	0.45	0.27	0.15	0.31	40.7	11.7	19
ZZ65597		0.49	0.007	0.09	1.48	56.7	<0.2	<10	100	0.49	0.28	0.16	0.26	47.3	11.5	22
ZZ65598		0.40	0.003	0.11	1.37	50.8	<0.2	<10	110	0.48	0.30	0.12	0.29	37.9	10.5	21
ZZ65599		0.35	0.003	0.19	1.27	41.0	<0.2	<10	120	0.38	0.27	0.10	0.12	29.4	5.3	17
ZZ65600		0.39	0.002	0.12	1.23	80.3	<0.2	<10	100	0.43	0.43	0.07	0.33	39.4	10.6	18
ZZ65601		0.35	0.004	0.14	1.39	67.5	<0.2	<10	130	0.57	0.36	0.07	0.20	51.1	13.1	19
ZZ65602		0.67	0.006	0.12	1.33	67.8	<0.2	<10	90	0.64	0.35	0.11	0.22	55.6	11.4	19
ZZ65603		0.49	0.007	0.16	1.49	120.5	<0.2	<10	130	0.68	0.38	0.10	0.23	48.6	10.7	21
ZZ65604		0.57	0.005	0.07	1.14	27.5	<0.2	<10	90	0.43	0.21	0.14	0.17	31.7	9.0	19
ZZ65605		0.41	0.004	0.12	1.15	48.0	<0.2	<10	90	0.47	0.30	0.10	0.28	26.8	12.7	18

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ64242		2.80	30.2	3.56	4.89	0.07	0.02	0.02	0.021	0.04	35.0	31.2	0.41	445	1.40	0.01
ZZ64243		3.44	31.6	3.96	4.75	0.06	0.05	0.02	0.027	0.05	29.3	23.8	0.34	515	1.32	<0.01
ZZ64244		1.11	25.1	3.52	3.65	0.06	0.07	0.01	0.022	0.03	24.9	22.0	0.34	421	1.46	0.01
ZZ64245		3.07	25.1	3.55	2.99	0.05	0.03	0.04	0.024	0.06	30.8	10.4	0.16	754	0.91	0.01
ZZ65570		1.68	27.2	3.05	4.58	0.05	0.03	0.04	0.021	0.04	20.3	24.5	0.38	502	1.25	0.01
ZZ65571		1.32	25.7	3.18	3.98	0.05	0.03	0.02	0.018	0.04	19.6	24.6	0.40	416	1.12	0.01
ZZ65572		1.80	32.3	3.70	4.78	0.05	0.02	0.03	0.022	0.05	23.3	28.9	0.48	562	1.42	0.01
ZZ65573		1.30	34.3	3.38	4.50	0.05	0.02	0.03	0.019	0.04	24.0	30.8	0.42	821	1.23	0.01
ZZ65574		1.40	30.9	3.03	4.81	0.05	<0.02	0.04	0.027	0.05	12.3	14.7	0.26	1860	1.63	<0.01
ZZ65575		1.33	30.5	3.46	4.49	0.06	<0.02	0.05	0.028	0.05	17.6	25.6	0.45	502	1.32	<0.01
ZZ65576		0.83	25.9	2.73	3.53	0.07	0.03	0.02	0.021	0.04	16.2	20.8	0.35	505	1.37	<0.01
ZZ65577		1.18	27.9	3.05	4.30	0.05	0.02	0.03	0.023	0.04	17.6	20.1	0.34	462	1.49	<0.01
ZZ65578		0.95	28.2	2.93	4.19	0.07	0.03	0.03	0.019	0.04	19.8	24.6	0.41	392	1.34	<0.01
ZZ65579		0.87	27.0	2.99	4.03	0.05	<0.02	0.03	0.021	0.04	19.1	23.7	0.39	344	1.30	<0.01
ZZ65580		0.95	22.6	3.23	4.36	0.06	0.02	0.03	0.022	0.04	15.1	23.2	0.38	327	1.47	<0.01
ZZ65581		1.25	20.4	2.79	4.43	<0.05	<0.02	0.02	0.018	0.04	12.3	15.7	0.30	331	1.36	<0.01
ZZ65582		0.89	17.4	2.63	3.60	<0.05	<0.02	0.03	0.014	0.03	10.4	7.9	0.17	208	1.09	<0.01
ZZ65583		0.79	21.7	2.83	3.78	0.05	0.04	0.05	0.018	0.04	15.0	20.9	0.37	309	1.27	<0.01
ZZ65584		1.14	25.4	2.82	3.33	0.05	0.04	0.03	0.018	0.04	15.4	18.5	0.33	397	1.20	<0.01
ZZ65585		0.93	31.3	2.95	2.33	0.05	0.05	0.04	0.018	0.04	15.3	11.4	0.26	703	1.02	0.01
ZZ65586		1.02	29.5	3.08	3.05	<0.05	0.04	0.02	0.016	0.04	11.9	14.8	0.29	533	1.10	<0.01
ZZ65587		1.22	30.0	3.66	3.64	0.06	0.06	0.03	0.021	0.03	19.3	21.8	0.35	612	1.15	<0.01
ZZ65588		1.05	23.2	2.95	5.00	0.05	<0.02	0.05	0.020	0.03	15.8	17.6	0.26	230	1.56	<0.01
ZZ65589		1.25	27.3	2.98	3.94	0.05	<0.02	0.03	0.016	0.04	13.6	20.2	0.30	553	1.23	<0.01
ZZ65590		0.75	21.1	2.45	2.71	0.05	0.06	0.04	0.016	0.05	13.8	12.8	0.34	276	1.39	0.01
ZZ65591		0.98	23.7	2.97	3.30	<0.05	0.03	0.02	0.017	0.04	12.5	18.5	0.34	435	1.18	<0.01
ZZ65592		0.82	26.4	3.15	3.58	0.07	0.04	0.04	0.017	0.04	19.1	23.7	0.39	430	1.09	<0.01
ZZ65593		1.32	26.7	3.31	4.44	0.05	0.02	0.04	0.022	0.05	17.4	25.7	0.48	327	1.23	0.01
ZZ65594		0.95	27.4	3.22	4.08	0.05	0.03	0.03	0.018	0.04	16.7	27.2	0.50	253	1.12	0.01
ZZ65595		0.89	27.6	3.37	3.72	0.05	0.03	0.02	0.020	0.04	15.9	28.6	0.42	401	1.22	<0.01
ZZ65596		0.82	24.4	2.95	3.88	0.07	0.03	0.02	0.017	0.04	20.2	25.3	0.41	513	1.21	0.01
ZZ65597		0.98	29.6	3.21	4.21	0.06	0.05	0.02	0.020	0.05	23.6	26.3	0.46	490	1.33	0.01
ZZ65598		0.99	25.9	3.24	4.05	0.05	<0.02	0.03	0.019	0.05	18.5	23.8	0.43	432	1.41	0.01
ZZ65599		1.15	18.4	2.49	4.19	<0.05	<0.02	0.04	0.016	0.04	14.9	17.7	0.30	194	1.02	0.01
ZZ65600		1.04	24.3	3.87	4.20	0.06	<0.02	0.05	0.015	0.05	21.0	25.2	0.36	733	0.83	0.01
ZZ65601		1.30	27.1	3.30	4.30	0.07	0.03	0.03	0.020	0.04	26.2	28.9	0.40	888	1.14	<0.01
ZZ65602		1.14	29.0	3.26	3.92	0.08	0.05	0.03	0.023	0.04	27.2	28.1	0.40	500	1.21	<0.01
ZZ65603		1.63	32.2	3.39	4.35	0.07	0.02	0.03	0.020	0.05	24.7	26.1	0.37	457	1.36	<0.01
ZZ65604		0.85	21.9	3.11	3.43	0.05	0.02	0.05	0.019	0.05	15.1	16.1	0.33	545	1.50	<0.01
ZZ65605		1.43	22.7	3.28	3.65	<0.05	<0.02	0.06	0.022	0.05	11.8	14.1	0.27	835	1.55	<0.01

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Project: Lance

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ64242	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	
ZZ64243	0.32	26.1	740	26.5	7.0	<0.001	0.02	2.49	1.1	0.2	0.3	10.0	<0.01	0.03	2.7	
ZZ64244	0.44	26.6	790	28.3	10.0	<0.001	0.01	3.21	1.8	0.3	0.4	10.0	<0.01	0.03	3.8	
ZZ64245	0.65	25.2	520	19.6	4.7	<0.001	<0.01	2.84	1.8	0.2	0.3	10.0	<0.01	0.02	5.9	
ZZ65570	0.39	18.5	940	28.0	10.2	<0.001	0.05	3.65	1.4	0.4	0.4	11.9	<0.01	0.02	2.6	
ZZ65571	0.39	24.2	920	35.0	8.0	0.001	0.04	2.25	1.3	<0.2	0.4	10.7	<0.01	0.03	1.3	
ZZ65572	0.36	24.2	680	26.2	5.9	<0.001	0.01	1.87	1.6	0.3	0.3	10.1	<0.01	0.02	2.4	
ZZ65573	0.43	29.3	740	31.6	7.8	<0.001	<0.01	1.96	2.3	0.4	0.4	11.8	<0.01	0.03	3.0	
ZZ65574	0.42	31.8	670	27.5	6.5	<0.001	<0.01	2.38	2.1	0.5	0.4	11.0	<0.01	0.03	3.3	
ZZ65575	0.37	20.9	1800	37.3	9.0	0.001	0.12	2.16	0.8	0.4	0.4	17.8	<0.01	0.05	0.4	
ZZ65576	0.45	26.0	810	25.6	7.0	0.001	<0.01	1.97	1.9	0.6	0.4	10.4	<0.01	0.03	1.5	
ZZ65577	0.61	24.8	730	19.9	5.0	<0.001	<0.01	1.82	1.9	0.3	0.2	13.1	<0.01	0.03	3.5	
ZZ65578	0.54	24.4	630	25.1	5.8	0.001	<0.01	1.85	1.6	0.8	0.3	11.2	<0.01	0.05	1.9	
ZZ65579	0.62	25.9	600	18.5	6.0	0.001	<0.01	1.85	2.3	0.3	0.3	10.9	<0.01	0.03	4.0	
ZZ65580	0.48	24.5	580	17.9	5.4	<0.001	<0.01	1.97	1.7	<0.2	0.3	10.7	<0.01	0.03	2.8	
ZZ65581	0.67	22.6	530	19.9	5.7	0.001	<0.01	1.72	1.5	0.4	0.3	9.4	<0.01	0.01	1.6	
ZZ65582	0.52	18.5	590	17.7	7.3	0.002	<0.01	1.43	1.1	0.4	0.4	8.7	<0.01	0.04	0.5	
ZZ65583	0.38	13.2	490	15.2	4.4	0.002	<0.01	1.48	0.6	0.3	0.3	6.3	<0.01	0.03	0.3	
ZZ65584	0.71	21.9	610	15.8	5.5	0.001	<0.01	1.25	1.8	0.5	0.3	12.5	<0.01	0.03	3.4	
ZZ65585	0.65	24.4	520	17.9	5.3	0.001	<0.01	1.50	2.0	0.3	0.3	12.2	<0.01	0.01	4.3	
ZZ65586	0.45	25.2	560	21.4	4.2	0.001	<0.01	2.13	3.2	0.7	0.4	18.7	<0.01	0.04	4.9	
ZZ65587	0.56	24.8	500	20.0	5.2	0.001	<0.01	2.02	1.9	0.3	0.3	10.2	<0.01	0.06	3.8	
ZZ65588	0.58	22.9	540	28.7	3.7	0.001	<0.01	1.59	1.6	<0.2	0.2	9.1	<0.01	0.04	6.4	
ZZ65589	0.44	17.1	660	20.6	5.4	<0.001	<0.01	1.04	0.7	0.4	0.4	9.8	<0.01	0.03	0.4	
ZZ65590	0.43	20.8	640	27.6	5.1	0.001	<0.01	1.42	1.3	0.2	0.4	11.6	<0.01	0.01	2.0	
ZZ65591	0.81	20.6	870	19.7	4.5	0.001	<0.01	1.45	2.2	0.2	0.3	17.6	<0.01	<0.01	5.6	
ZZ65592	0.62	21.9	730	18.1	5.3	0.001	<0.01	1.05	1.7	0.2	0.2	12.2	<0.01	0.04	3.2	
ZZ65593	0.60	23.9	690	17.2	5.1	<0.001	<0.01	1.13	2.0	0.2	0.3	13.0	<0.01	0.02	5.7	
ZZ65594	0.66	22.6	710	22.5	6.7	0.001	<0.01	1.29	1.7	0.2	0.4	11.2	<0.01	0.04	2.2	
ZZ65595	0.51	29.2	690	17.3	5.4	<0.001	<0.01	1.33	1.9	0.2	0.3	10.6	<0.01	0.03	2.6	
ZZ65596	0.49	26.7	340	19.1	4.9	0.001	<0.01	1.94	1.6	0.3	0.2	9.8	<0.01	0.04	3.2	
ZZ65597	0.55	25.3	760	18.2	5.0	<0.001	<0.01	2.50	1.9	0.7	0.3	14.6	<0.01	0.04	3.4	
ZZ65598	0.70	27.4	760	18.3	5.2	0.001	<0.01	2.36	2.6	0.6	0.3	14.0	<0.01	0.04	5.8	
ZZ65599	0.45	23.4	820	19.7	5.2	<0.001	<0.01	2.36	1.8	0.6	0.3	12.3	<0.01	0.02	2.2	
ZZ65600	0.25	15.2	1020	18.0	5.8	0.001	0.02	1.43	0.4	0.3	0.3	11.4	<0.01	0.04	0.2	
ZZ65601	0.27	20.1	1100	21.8	6.1	0.001	0.02	2.94	0.8	0.2	0.3	8.3	<0.01	0.02	1.6	
ZZ65602	0.43	22.9	660	24.5	6.7	0.001	<0.01	2.19	1.6	0.4	0.3	9.5	<0.01	0.04	2.9	
ZZ65603	0.48	24.3	650	22.5	5.3	0.001	<0.01	2.51	2.1	0.8	0.3	12.1	<0.01	0.04	6.5	
ZZ65604	0.29	23.4	820	24.3	6.5	0.001	<0.01	2.50	1.2	0.3	0.4	12.2	<0.01	0.03	1.1	
ZZ65605	0.77	22.1	610	17.5	5.9	0.001	<0.01	1.81	2.2	0.2	0.3	13.5	<0.01	0.03	4.1	
ZZ65606	0.43	22.2	940	28.7	6.7	<0.001	<0.01	1.74	1.4	0.6	0.4	11.2	<0.01	0.03	1.2	

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
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 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ64242		0.014	0.07	1.17	27	0.15	4.11	78	0.7
ZZ64243		0.012	0.15	1.59	31	0.21	4.83	86	1.3
ZZ64244		0.027	0.06	0.88	28	0.18	4.31	84	2.2
ZZ64245		0.009	0.10	2.51	19	0.16	7.24	55	0.8
ZZ65570		0.017	0.09	1.69	27	0.19	7.14	72	0.7
ZZ65571		0.018	0.08	1.40	28	0.19	5.38	80	0.8
ZZ65572		0.022	0.09	1.86	33	0.26	6.41	93	0.5
ZZ65573		0.021	0.07	1.65	28	0.20	5.94	87	0.9
ZZ65574		0.014	0.16	1.97	32	0.24	9.11	63	<0.5
ZZ65575		0.022	0.09	1.58	34	0.31	6.21	89	<0.5
ZZ65576		0.026	0.09	0.95	30	0.29	4.85	79	1.3
ZZ65577		0.024	0.09	1.07	34	0.28	4.31	78	<0.5
ZZ65578		0.027	0.08	1.27	31	0.24	5.67	83	1.1
ZZ65579		0.022	0.08	1.08	29	0.24	4.21	79	0.5
ZZ65580		0.027	0.10	0.93	33	0.26	4.22	77	0.6
ZZ65581		0.023	0.11	0.87	38	0.22	3.40	67	<0.5
ZZ65582		0.023	0.08	0.71	30	0.17	2.40	52	<0.5
ZZ65583		0.029	0.08	0.78	31	0.23	4.03	75	1.1
ZZ65584		0.024	0.07	0.95	28	0.22	4.33	77	1.2
ZZ65585		0.018	0.05	1.14	22	0.16	9.70	76	2.1
ZZ65586		0.023	0.06	0.96	26	0.18	3.69	80	1.4
ZZ65587		0.022	0.05	0.94	23	0.15	3.98	67	2.3
ZZ65588		0.019	0.10	0.89	37	0.21	3.40	58	<0.5
ZZ65589		0.017	0.07	1.08	29	0.21	3.56	74	<0.5
ZZ65590		0.040	0.07	1.15	33	0.38	5.80	78	1.9
ZZ65591		0.025	0.07	0.93	30	0.19	4.21	75	0.9
ZZ65592		0.026	0.06	1.04	29	0.17	4.70	81	1.6
ZZ65593		0.028	0.10	1.08	38	0.23	4.54	85	0.6
ZZ65594		0.022	0.08	1.02	33	0.23	4.47	83	0.6
ZZ65595		0.020	0.06	0.94	27	0.20	4.07	84	0.7
ZZ65596		0.027	0.06	0.94	28	0.25	5.12	84	1.0
ZZ65597		0.038	0.07	1.50	35	0.26	5.87	101	1.5
ZZ65598		0.025	0.07	1.29	33	0.26	4.73	89	0.6
ZZ65599		0.013	0.08	1.33	28	0.15	3.43	57	<0.5
ZZ65600		0.012	0.03	1.29	21	0.15	3.73	78	0.7
ZZ65601		0.017	0.09	1.48	27	0.19	5.49	78	0.9
ZZ65602		0.019	0.07	1.52	27	0.19	5.66	83	1.7
ZZ65603		0.015	0.09	2.05	32	0.21	5.93	86	<0.5
ZZ65604		0.036	0.08	1.09	38	0.29	5.18	71	0.9
ZZ65605		0.025	0.09	1.24	37	0.34	4.35	89	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ65606		0.52	0.002	0.06	1.66	18.5	<0.2	<10	60	0.63	0.54	0.09	0.13	19.10	17.7	20
ZZ65607		0.39	0.002	0.07	1.34	19.8	<0.2	<10	80	0.43	0.28	0.12	0.16	40.7	8.6	20
ZZ65608		0.53	0.003	0.12	1.33	23.2	<0.2	<10	130	0.49	0.28	0.10	0.19	44.8	11.7	21
ZZ65609		0.41	0.001	0.09	1.57	43.6	<0.2	<10	90	0.52	0.45	0.11	0.19	56.1	13.8	26
ZZ65610		0.34	0.002	0.10	1.23	39.6	<0.2	<10	80	0.26	0.43	0.06	0.14	29.9	7.0	23
ZZ65611		0.44	0.001	0.07	1.16	35.2	<0.2	<10	60	0.29	0.42	0.05	0.10	38.6	8.6	20
ZZ65612		0.55	0.003	0.11	1.38	39.3	<0.2	<10	80	0.39	0.37	0.05	0.19	34.0	11.1	20
ZZ65613		0.53	0.004	0.08	1.44	70.1	<0.2	<10	80	0.35	0.45	0.07	0.13	48.8	9.0	21
ZZ65614		0.39	0.003	0.10	1.54	79.6	<0.2	<10	110	0.46	0.41	0.08	0.13	52.8	10.8	21
ZZ65615		0.48	0.005	0.30	2.00	291	<0.2	<10	280	0.83	0.65	0.19	0.20	38.8	12.0	31
ZZ65616		0.66	0.005	0.62	2.12	141.5	<0.2	<10	180	0.75	0.53	0.17	0.14	47.1	8.7	26
ZZ65617		0.51	0.004	0.08	1.39	85.4	<0.2	<10	90	0.48	0.42	0.08	0.20	56.4	10.2	19
ZZ65618		0.40	0.003	0.08	1.35	136.0	<0.2	<10	140	0.49	0.49	0.08	0.12	49.8	9.2	18
ZZ65619		0.29	0.004	0.27	1.39	147.0	<0.2	<10	200	0.54	0.41	0.16	0.36	41.1	14.6	18
ZZ65620		0.27	0.004	0.22	1.39	97.7	<0.2	<10	120	0.53	0.40	0.10	0.15	56.0	8.3	18
ZZ65624		0.26	0.017	0.40	1.31	207	<0.2	<10	240	0.68	0.61	0.25	0.89	51.2	20.3	18
ZZ65625		0.26	0.007	0.33	1.15	113.5	<0.2	<10	220	0.54	0.46	0.23	0.73	47.2	14.5	18
ZZ65626		0.28	0.005	0.20	1.47	150.5	<0.2	<10	130	0.67	0.65	0.18	0.37	91.0	59.3	17
ZZ65627		0.33	0.014	0.15	1.45	605	<0.2	<10	110	0.56	1.96	0.18	0.25	56.3	12.6	23
ZZ65628		0.26	0.007	0.10	1.19	373	<0.2	<10	110	0.37	1.33	0.11	0.17	43.9	11.3	17
ZZ65629		0.30	1.190	14.95	1.38	>10000	1.3	<10	640	12.10	80.8	0.97	91.5	72.9	30.4	11
ZZ65630		0.60	0.012	0.16	1.17	1140	<0.2	<10	90	0.55	2.40	0.15	0.25	62.8	14.7	17

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ65606		1.35	41.7	4.19	4.74	<0.05	0.03	0.02	0.020	0.04	8.7	51.9	0.59	489	0.93	0.01
ZZ65607		1.06	26.8	3.53	3.88	0.06	0.03	0.03	0.017	0.04	20.6	29.2	0.40	355	1.23	0.01
ZZ65608		1.02	27.7	3.08	4.00	0.06	0.02	0.02	0.018	0.04	22.8	26.6	0.43	491	1.16	0.01
ZZ65609		2.23	30.7	3.79	5.76	0.07	0.03	0.02	0.020	0.06	28.5	36.0	0.54	592	1.34	0.01
ZZ65610		1.60	17.9	3.47	6.09	<0.05	0.02	0.07	0.023	0.04	15.1	13.1	0.31	222	1.99	0.01
ZZ65611		1.38	22.3	4.00	4.90	<0.05	0.02	0.02	0.021	0.03	19.9	18.6	0.32	227	1.27	0.02
ZZ65612		1.26	24.9	3.26	3.85	<0.05	0.02	0.02	0.022	0.04	17.1	19.6	0.32	332	1.29	0.02
ZZ65613		1.11	21.9	3.11	4.52	0.05	0.02	0.02	0.020	0.04	24.8	25.6	0.42	279	1.14	0.02
ZZ65614		1.29	25.8	3.23	4.54	0.05	0.03	0.02	0.020	0.04	27.1	31.7	0.48	386	0.99	0.02
ZZ65615		4.35	33.3	3.70	5.40	<0.05	0.08	0.03	0.036	0.07	20.2	36.6	0.46	542	1.54	0.02
ZZ65616		2.65	27.2	3.27	5.50	0.06	0.05	0.06	0.032	0.05	25.2	35.1	0.49	267	1.33	0.02
ZZ65617		1.48	23.0	3.16	4.32	0.05	0.02	0.02	0.019	0.04	28.7	25.1	0.40	382	1.16	0.01
ZZ65618		1.75	20.1	3.32	4.55	<0.05	0.02	0.01	0.019	0.04	26.2	25.5	0.37	473	1.18	0.01
ZZ65619		2.10	23.0	3.02	4.04	<0.05	0.02	0.05	0.022	0.05	20.9	22.8	0.36	1150	1.11	0.02
ZZ65620		1.58	27.4	3.12	4.35	<0.05	0.03	0.03	0.023	0.04	28.8	28.4	0.40	209	1.09	0.02
ZZ65624		1.34	48.3	4.55	3.48	0.08	0.07	0.09	0.035	0.05	25.8	20.1	0.42	1640	2.99	0.02
ZZ65625		1.08	38.9	3.45	3.81	0.06	0.05	0.10	0.027	0.06	23.9	15.8	0.36	777	3.50	0.02
ZZ65626		2.80	47.9	3.78	4.44	0.15	0.06	0.04	0.028	0.06	51.4	30.4	0.56	831	2.08	0.02
ZZ65627		2.40	32.4	3.41	4.64	0.09	0.03	0.03	0.026	0.06	28.1	16.3	0.43	453	1.52	0.02
ZZ65628		2.63	24.3	3.36	5.05	<0.05	<0.02	0.03	0.022	0.05	22.3	9.5	0.23	583	2.04	0.02
ZZ65629		5.18	49.8	11.85	3.99	0.37	0.16	0.29	2.43	0.09	49.6	11.9	0.38	5710	2.74	0.01
ZZ65630		3.20	32.6	3.71	3.76	0.08	0.02	0.03	0.024	0.06	32.3	14.8	0.32	731	1.30	0.02

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Sample Description	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ65606	0.31	33.3	520	28.2	3.6	<0.001	<0.01	0.96	1.8	<0.2	0.3	14.6	<0.01	0.04	7.0
ZZ65607	0.55	22.3	720	22.1	5.1	0.001	<0.01	1.13	1.7	0.4	0.3	11.9	<0.01	0.03	4.3
ZZ65608	0.56	22.5	660	22.2	5.6	0.001	<0.01	1.19	2.4	0.5	0.3	11.5	<0.01	0.03	4.4
ZZ65609	0.62	26.6	650	30.0	7.7	<0.001	<0.01	1.15	1.8	0.3	0.4	13.2	<0.01	0.03	6.1
ZZ65610	1.47	17.8	520	23.2	7.1	<0.001	0.03	1.26	2.1	0.3	0.6	9.4	<0.01	0.05	1.6
ZZ65611	0.98	21.6	400	27.1	5.4	<0.001	0.03	1.40	1.8	0.2	0.4	7.4	<0.01	0.04	3.9
ZZ65612	0.44	22.9	680	24.2	6.5	<0.001	0.03	1.47	1.1	0.5	0.3	9.0	<0.01	0.04	0.8
ZZ65613	0.51	22.8	640	21.2	6.7	<0.001	0.03	2.08	1.3	0.3	0.3	8.8	<0.01	0.05	1.3
ZZ65614	0.54	26.3	520	22.0	6.5	<0.001	0.03	1.82	1.9	0.3	0.3	9.8	<0.01	0.03	2.8
ZZ65615	0.65	31.0	1120	27.8	11.5	<0.001	0.07	2.22	2.4	0.4	0.5	23.0	<0.01	0.05	2.0
ZZ65616	0.60	27.5	1170	22.4	9.8	<0.001	0.07	2.31	1.8	0.7	0.5	24.3	<0.01	0.03	1.4
ZZ65617	0.49	22.8	610	23.0	6.6	<0.001	0.03	3.04	1.3	0.3	0.3	11.3	<0.01	0.04	1.7
ZZ65618	0.49	20.1	640	22.4	7.8	<0.001	0.03	3.22	1.2	0.3	0.4	11.1	<0.01	0.05	1.1
ZZ65619	0.32	22.0	1080	24.3	7.7	<0.001	0.09	2.15	1.1	0.4	0.3	21.2	<0.01	0.04	0.5
ZZ65620	0.47	24.7	750	21.8	6.5	<0.001	0.04	1.82	1.9	0.4	0.3	12.4	<0.01	0.04	1.8
ZZ65624	0.51	42.7	1260	34.8	6.2	0.001	0.02	5.20	3.7	1.4	0.3	27.1	0.01	0.06	6.3
ZZ65625	0.65	33.6	1170	21.6	6.6	0.001	0.02	3.25	3.0	1.3	0.3	24.2	0.01	0.06	4.7
ZZ65626	0.50	45.8	930	20.7	5.6	0.001	0.02	12.85	2.5	0.9	0.3	23.2	0.01	0.11	11.2
ZZ65627	0.69	27.4	920	14.9	9.7	<0.001	0.03	2.55	2.2	0.6	0.6	20.2	<0.01	0.04	2.0
ZZ65628	0.53	18.2	780	15.7	11.3	<0.001	0.03	2.99	1.4	0.5	0.6	13.2	<0.01	0.05	0.7
ZZ65629	0.85	26.4	1270	1200	27.2	0.001	0.02	578	10.8	2.7	5.0	103.5	0.03	1.04	13.8
ZZ65630	0.48	25.9	980	16.9	9.1	<0.001	0.04	3.32	2.0	0.4	0.4	22.5	<0.01	0.05	2.8



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ65606		0.013	0.05	1.30	22	0.09	3.54	100	1.1
ZZ65607		0.024	0.08	1.09	30	0.18	4.18	78	1.0
ZZ65608		0.029	0.07	1.27	32	0.18	5.79	81	0.7
ZZ65609		0.020	0.08	1.09	37	0.21	3.87	93	1.1
ZZ65610		0.033	0.16	0.69	54	0.35	2.50	65	0.5
ZZ65611		0.024	0.09	0.70	35	0.28	2.60	67	0.8
ZZ65612		0.015	0.10	1.02	32	0.26	3.41	79	<0.5
ZZ65613		0.019	0.08	1.06	29	0.37	3.77	75	<0.5
ZZ65614		0.017	0.08	1.33	27	0.35	4.84	81	0.7
ZZ65615		0.012	0.13	2.33	36	0.37	6.33	113	1.8
ZZ65616		0.013	0.15	2.69	35	0.26	7.83	95	1.1
ZZ65617		0.016	0.08	1.16	28	0.23	3.66	79	<0.5
ZZ65618		0.014	0.08	1.34	29	0.29	4.50	71	<0.5
ZZ65619		0.012	0.11	1.94	27	0.21	4.87	78	<0.5
ZZ65620		0.015	0.08	1.69	26	0.23	6.30	74	0.5
ZZ65624		0.014	0.13	1.65	31	0.15	11.75	147	1.8
ZZ65625		0.015	0.14	1.17	40	0.17	8.37	134	1.4
ZZ65626		0.014	0.09	1.31	24	0.12	7.45	121	1.9
ZZ65627		0.027	0.14	1.76	37	0.26	6.43	83	<0.5
ZZ65628		0.021	0.15	1.25	45	0.25	4.59	65	<0.5
ZZ65629		0.006	0.83	5.65	11	59.9	56.1	2570	2.5
ZZ65630		0.021	0.10	1.98	27	0.22	6.93	101	<0.5



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Account: F

Project: Lance

CERTIFICATE OF ANALYSIS WH12162747

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



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CERTIFICATE WH12163468

Project: Lance
 P.O. No.:
 This report is for 74 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- JUL- 2012.
 The following have access to data associated with this certificate:
 SARAH EATON JOAN MARIACHER

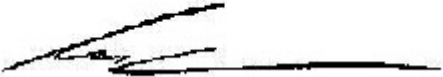
SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/ o BarCode
SCR- 41	Screen to - 180um and save both

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12163468

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66874		0.12	0.004	0.08	1.25	45.6	<0.2	<10	90	0.49	0.41	0.08	0.28	33.0	8.9	17
ZZ66875		0.16	0.006	0.21	1.30	62.4	<0.2	<10	90	0.43	0.41	0.07	0.22	32.3	12.1	18
ZZ66876		0.14	0.004	0.10	1.21	68.8	<0.2	<10	70	0.43	0.44	0.05	0.17	32.1	11.6	16
ZZ66877		0.16	0.010	0.10	1.21	78.0	<0.2	<10	70	0.62	0.45	0.08	0.27	59.2	17.8	16
ZZ66878		0.13	0.021	0.19	1.21	170.0	<0.2	<10	50	0.67	0.56	0.13	0.14	46.2	22.7	13
ZZ66879		0.17	0.005	0.24	1.62	111.5	<0.2	<10	40	0.73	0.64	0.11	0.09	89.4	18.2	17
ZZ66880		0.18	0.022	0.16	0.99	209	<0.2	<10	40	0.61	0.57	0.14	0.15	85.4	16.9	11
ZZ66881		0.16	0.011	0.12	0.80	144.5	<0.2	<10	70	0.57	0.35	0.22	0.25	36.7	9.3	10
ZZ66882		0.20	0.002	0.06	1.94	31.4	<0.2	<10	100	1.02	0.51	0.07	0.10	104.5	22.1	20
ZZ66883		0.23	0.014	0.43	1.25	2140	<0.2	<10	90	0.95	0.71	0.08	0.49	81.3	24.5	12
ZZ66884		0.19	0.005	0.14	0.91	114.0	<0.2	<10	110	0.43	0.48	0.10	0.38	38.3	7.0	12
ZZ66885		0.19	0.007	0.32	0.99	153.0	<0.2	<10	50	0.24	0.34	0.04	0.14	37.6	6.1	15
ZZ66886		0.22	0.003	0.10	0.95	48.9	<0.2	<10	60	0.26	0.28	0.06	0.23	28.8	6.6	16
ZZ66887		0.21	0.006	0.05	1.34	103.5	<0.2	<10	60	0.60	0.32	0.03	0.20	35.2	13.9	14
ZZ66888		0.22	0.003	0.12	1.21	34.2	<0.2	<10	90	0.37	0.39	0.04	0.23	35.5	9.3	18
ZZ66889		0.17	0.005	0.15	1.17	75.3	<0.2	<10	170	0.50	0.45	0.21	0.40	42.8	9.5	18
ZZ66890		0.16	0.005	0.26	1.16	155.0	<0.2	<10	180	0.71	0.63	0.20	0.32	38.4	6.3	16
ZZ66891		0.13	0.005	0.06	1.45	60.8	<0.2	<10	90	0.44	0.32	0.18	0.23	54.8	12.5	20
ZZ66892		0.22	0.005	0.14	1.33	157.5	<0.2	<10	110	0.69	0.62	0.14	0.24	42.2	9.2	18
ZZ66893		0.11	0.011	0.10	0.86	193.5	<0.2	<10	60	0.44	0.68	0.09	0.24	45.2	6.1	14
ZZ66894		0.13	0.004	0.07	1.02	55.2	<0.2	<10	50	0.22	0.53	0.04	0.16	31.9	4.2	16
ZZ66895		0.13	0.007	0.10	1.00	99.0	<0.2	<10	50	0.33	0.51	0.04	0.14	36.6	6.1	19
ZZ66896		0.13	0.004	0.06	0.83	37.2	<0.2	<10	70	0.20	0.46	0.03	0.15	25.1	4.4	16
ZZ66897		0.21	0.006	0.09	1.47	47.6	<0.2	<10	100	0.55	0.41	0.11	0.15	52.4	10.6	22
ZZ66898		0.20	0.004	0.06	1.65	54.1	<0.2	<10	110	0.32	0.40	0.06	0.11	36.6	6.2	22
ZZ66899		0.14	0.004	0.13	1.35	73.1	<0.2	<10	60	0.47	0.33	0.12	0.33	40.0	15.4	23
ZZ66900		0.14	0.005	0.04	1.16	26.5	<0.2	<10	70	0.24	0.30	0.07	0.19	28.4	5.1	19
ZZ66901		0.14	0.003	0.03	0.49	19.4	<0.2	<10	50	0.10	0.28	0.07	0.33	28.2	3.8	12
ZZ66902		0.17	0.003	0.03	1.49	34.9	<0.2	<10	60	0.34	0.32	0.07	0.14	49.6	9.4	21
ZZ66903		0.11	0.003	0.07	0.98	7.5	<0.2	<10	80	0.15	0.27	0.04	0.09	25.1	2.5	15
ZZ66904		0.09	0.017	0.92	1.50	70.5	<0.2	<10	130	0.60	0.32	0.09	0.11	22.8	6.0	15
ZZ66905		0.09	0.014	1.09	1.73	62.5	<0.2	<10	120	0.66	0.44	0.08	0.16	25.3	10.0	22
ZZ66906		0.12	0.004	0.09	0.98	24.0	<0.2	<10	100	0.50	0.44	0.06	0.13	28.9	11.0	17
ZZ66907		0.08	0.005	0.05	0.31	8.2	<0.2	<10	30	<0.05	0.13	0.03	0.04	7.83	1.2	7
ZZ66908		0.20	0.005	0.07	1.24	29.8	<0.2	<10	90	0.37	0.31	0.07	0.20	35.4	6.5	21
ZZ66909		0.23	0.005	0.08	1.26	77.5	<0.2	<10	70	0.35	0.27	0.11	0.24	31.1	7.1	21
ZZ66910		0.17	0.005	0.09	1.46	25.2	<0.2	<10	70	0.46	0.19	0.11	0.28	29.3	8.5	22
ZZ66911		0.11	0.014	0.45	1.96	62.2	<0.2	<10	180	0.82	0.58	0.11	0.23	32.5	12.6	27
ZZ66912		0.24	0.005	0.12	1.61	41.5	<0.2	<10	130	0.45	0.32	0.15	0.23	44.5	10.5	27
ZZ66913		0.16	0.007	0.15	1.77	62.5	<0.2	<10	110	0.74	0.35	0.07	0.33	38.6	10.8	26



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CERTIFICATE OF ANALYSIS WH12163468

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66874		1.29	23.6	3.00	4.26	0.05	<0.02	0.03	0.023	0.04	16.7	37.5	0.36	384	1.13	0.01
ZZ66875		1.31	26.8	3.08	4.40	<0.05	<0.02	0.05	0.022	0.05	16.6	29.1	0.36	630	1.27	0.01
ZZ66876		2.13	27.7	3.03	4.03	<0.05	<0.02	0.04	0.022	0.04	16.3	16.5	0.25	569	1.33	0.01
ZZ66877		1.24	36.5	3.52	3.49	0.10	0.07	0.07	0.022	0.06	31.1	25.9	0.33	1100	1.12	0.01
ZZ66878		1.78	37.2	3.63	3.26	0.06	0.05	0.06	0.026	0.05	25.1	23.0	0.34	985	0.81	0.01
ZZ66879		2.59	42.8	3.72	4.76	0.11	0.07	0.04	0.025	0.04	49.6	59.7	0.53	761	0.62	0.01
ZZ66880		1.75	42.5	3.63	2.92	0.09	0.09	0.02	0.023	0.05	49.1	30.4	0.33	735	0.61	0.01
ZZ66881		1.20	18.2	2.67	2.31	<0.05	0.03	0.03	0.020	0.06	18.2	13.0	0.20	583	0.67	0.01
ZZ66882		5.39	47.1	4.06	5.68	0.12	0.07	0.04	0.026	0.06	56.6	45.4	0.51	788	0.82	0.01
ZZ66883		4.17	44.2	4.59	3.56	0.12	0.03	0.04	0.031	0.07	45.6	12.2	0.15	927	1.01	0.01
ZZ66884		1.77	20.9	2.72	4.23	0.06	<0.02	0.03	0.017	0.06	21.2	12.0	0.15	653	1.09	0.01
ZZ66885		1.09	17.6	3.49	4.77	0.05	0.02	0.04	0.018	0.05	19.7	13.1	0.18	397	1.35	0.01
ZZ66886		0.99	17.2	2.80	3.72	<0.05	<0.02	0.03	0.017	0.04	15.1	16.0	0.24	257	1.14	0.01
ZZ66887		2.58	27.7	2.77	3.23	0.05	0.02	0.03	0.025	0.04	17.2	25.5	0.32	551	0.61	0.01
ZZ66888		1.84	21.2	3.42	5.10	0.05	<0.02	0.06	0.023	0.06	18.1	28.2	0.29	638	1.34	0.01
ZZ66889		1.26	21.0	2.70	4.25	0.06	<0.02	0.03	0.021	0.05	21.8	23.2	0.32	721	1.30	0.01
ZZ66890		3.91	22.7	2.48	4.11	<0.05	<0.02	0.02	0.024	0.06	20.0	20.4	0.26	305	1.10	0.01
ZZ66891		1.13	28.4	3.16	4.58	0.10	0.04	0.02	0.019	0.04	29.8	40.2	0.53	427	1.09	0.01
ZZ66892		1.76	23.1	2.92	4.24	0.05	<0.02	0.04	0.024	0.05	23.7	25.7	0.37	387	1.15	0.01
ZZ66893		1.54	20.7	2.55	4.08	0.06	<0.02	0.03	0.018	0.03	24.0	14.1	0.18	299	1.25	0.01
ZZ66894		1.39	12.1	2.41	7.04	<0.05	<0.02	0.05	0.015	0.04	15.7	7.5	0.15	273	1.79	0.01
ZZ66895		1.63	20.6	2.73	4.36	0.05	<0.02	0.04	0.021	0.04	17.7	13.4	0.20	346	1.93	0.01
ZZ66896		1.71	14.4	2.52	6.57	<0.05	<0.02	0.03	0.019	0.05	12.5	4.1	0.09	343	2.23	0.01
ZZ66897		1.29	30.9	3.12	4.63	0.07	0.03	0.04	0.020	0.03	27.5	33.3	0.46	330	1.19	0.01
ZZ66898		1.83	18.6	2.83	6.41	<0.05	<0.02	0.03	0.023	0.04	17.9	18.7	0.30	221	1.83	0.01
ZZ66899		0.94	30.8	3.47	3.64	0.06	0.03	0.04	0.026	0.04	20.5	31.9	0.44	534	1.30	<0.01
ZZ66900		1.64	14.1	2.44	6.15	<0.05	<0.02	0.03	0.018	0.03	14.3	13.6	0.23	224	1.60	<0.01
ZZ66901		0.88	13.3	1.88	6.77	0.05	<0.02	0.06	0.013	0.05	14.6	2.4	0.05	124	2.23	<0.01
ZZ66902		1.22	22.1	3.25	5.07	0.07	0.04	0.03	0.022	0.03	24.4	33.6	0.42	292	1.45	<0.01
ZZ66903		1.12	12.3	1.29	6.17	<0.05	<0.02	0.04	0.014	0.03	12.7	3.4	0.07	58	1.96	<0.01
ZZ66904		2.34	37.0	2.57	3.31	<0.05	0.02	0.08	0.025	0.04	11.3	11.2	0.16	211	1.27	0.01
ZZ66905		3.51	45.1	3.40	4.16	0.05	<0.02	0.11	0.031	0.05	13.6	23.3	0.32	566	1.44	0.01
ZZ66906		2.62	35.5	3.52	3.86	0.05	<0.02	0.02	0.021	0.04	14.7	19.5	0.26	432	1.37	<0.01
ZZ66907		0.62	5.8	0.65	2.49	<0.05	<0.02	0.03	0.006	0.02	4.0	0.9	0.02	40	0.91	0.01
ZZ66908		1.10	20.7	3.23	6.07	0.05	<0.02	0.02	0.021	0.03	18.3	18.8	0.33	239	1.82	<0.01
ZZ66909		1.07	21.5	2.87	4.89	<0.05	<0.02	0.03	0.028	0.04	16.1	18.9	0.32	267	1.61	<0.01
ZZ66910		0.82	22.8	2.97	3.97	0.05	0.05	0.04	0.024	0.04	15.2	22.5	0.36	415	1.61	<0.01
ZZ66911		3.65	48.5	4.05	5.97	0.05	0.02	0.07	0.036	0.07	16.5	29.8	0.47	514	2.02	0.01
ZZ66912		1.38	31.0	3.17	5.10	0.06	<0.02	0.05	0.022	0.05	23.5	22.7	0.48	398	1.64	0.01
ZZ66913		1.58	24.3	3.47	5.79	0.05	<0.02	0.03	0.028	0.05	18.2	18.9	0.41	490	1.72	<0.01

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ66874		0.44	23.6	640	21.5	7.6	<0.001	0.05	1.48	0.9	0.4	0.3	10.6	<0.01	0.04	0.7
ZZ66875		0.44	22.7	680	27.1	7.2	<0.001	0.06	1.79	0.7	<0.2	0.3	9.4	<0.01	0.04	0.6
ZZ66876		0.41	20.6	720	30.5	8.1	<0.001	0.05	2.34	0.8	0.6	0.4	9.2	<0.01	0.03	0.6
ZZ66877		0.28	29.0	790	43.3	6.0	<0.001	0.04	2.74	1.4	0.3	0.2	13.3	<0.01	0.05	4.3
ZZ66878		0.23	30.5	770	48.8	4.5	<0.001	0.06	3.68	1.3	0.2	0.2	19.9	<0.01	0.04	2.8
ZZ66879		0.18	32.9	460	47.5	4.7	<0.001	0.03	2.24	1.4	0.4	0.2	14.8	<0.01	0.05	6.3
ZZ66880		0.16	30.3	460	46.4	3.8	<0.001	0.03	4.83	1.8	<0.2	<0.2	19.0	<0.01	0.02	8.1
ZZ66881		0.28	16.5	820	30.9	6.4	<0.001	0.04	4.21	0.8	<0.2	0.2	17.0	<0.01	0.05	1.5
ZZ66882		0.22	35.0	560	35.9	7.4	<0.001	0.04	3.16	2.0	0.5	0.4	13.3	<0.01	0.03	8.4
ZZ66883		0.36	30.2	620	183.5	8.4	0.001	0.05	10.90	2.1	0.8	0.9	40.3	<0.01	0.06	7.1
ZZ66884		0.46	13.9	680	31.8	12.2	<0.001	0.04	2.60	0.4	0.3	0.4	13.1	<0.01	0.03	0.4
ZZ66885		1.33	13.9	370	21.6	10.6	<0.001	0.03	2.11	1.6	0.8	0.5	7.2	<0.01	0.05	5.1
ZZ66886		0.68	16.4	470	19.7	6.5	<0.001	0.05	1.44	0.8	0.3	0.3	8.0	<0.01	0.02	0.5
ZZ66887		0.39	24.1	220	29.2	5.0	<0.001	0.02	3.11	1.5	0.4	0.4	5.9	<0.01	0.01	3.5
ZZ66888		0.57	18.9	580	25.4	10.6	<0.001	0.04	1.25	0.8	0.4	0.5	7.6	<0.01	0.04	0.6
ZZ66889		0.37	21.9	1010	20.5	8.4	<0.001	0.07	2.38	0.8	0.5	0.4	16.5	<0.01	0.04	0.5
ZZ66890		0.40	19.5	1040	23.0	9.9	0.001	0.08	4.22	0.6	0.5	0.4	20.0	<0.01	0.02	0.4
ZZ66891		0.48	32.0	650	19.9	4.5	0.001	0.02	2.68	1.8	0.2	0.2	17.4	<0.01	0.03	6.5
ZZ66892		0.45	23.2	780	26.8	8.6	0.001	0.06	4.38	0.8	0.6	0.4	17.1	<0.01	0.05	0.6
ZZ66893		0.38	16.7	630	29.1	6.7	<0.001	0.05	5.60	0.5	0.6	0.4	13.4	<0.01	0.03	0.4
ZZ66894		0.66	9.6	720	18.7	7.4	<0.001	0.05	1.40	0.5	0.3	0.7	6.6	<0.01	0.06	0.2
ZZ66895		0.33	18.6	970	27.0	7.8	<0.001	0.06	4.43	0.3	0.3	0.4	6.3	<0.01	0.06	0.2
ZZ66896		0.48	11.7	810	16.4	10.4	0.001	0.06	1.25	0.3	0.5	0.8	7.0	<0.01	0.02	<0.2
ZZ66897		0.61	29.1	620	24.0	6.3	<0.001	0.02	1.77	2.1	0.6	0.3	11.9	<0.01	0.03	4.4
ZZ66898		0.78	17.3	510	19.6	9.1	<0.001	0.03	1.24	1.0	0.4	0.7	8.4	<0.01	0.04	0.5
ZZ66899		0.34	37.3	630	27.0	4.6	0.001	0.03	2.31	2.1	0.9	0.3	12.7	<0.01	0.02	6.2
ZZ66900		0.66	13.4	470	20.1	6.1	<0.001	0.04	1.01	1.1	0.9	0.6	8.5	<0.01	0.04	0.6
ZZ66901		0.63	9.5	400	9.8	5.8	<0.001	0.05	1.07	0.7	0.6	0.8	8.5	<0.01	0.03	0.5
ZZ66902		0.63	21.7	450	27.2	6.1	<0.001	0.03	1.21	1.6	0.7	0.4	8.8	<0.01	0.04	4.6
ZZ66903		0.24	7.8	560	17.0	5.8	0.001	0.05	0.62	0.2	0.8	1.0	7.4	<0.01	0.04	<0.2
ZZ66904		0.44	16.5	1970	53.0	6.2	0.001	0.20	1.37	0.9	1.2	0.4	9.0	<0.01	0.06	0.6
ZZ66905		0.46	22.2	1730	63.4	7.6	0.001	0.15	1.61	1.2	1.3	0.3	9.0	<0.01	0.07	0.6
ZZ66906		0.29	24.1	510	33.1	6.9	<0.001	0.05	1.66	1.2	0.8	0.3	14.5	<0.01	0.03	1.7
ZZ66907		0.26	4.0	430	5.4	2.5	<0.001	0.06	0.29	0.2	0.2	0.4	5.1	<0.01	<0.01	<0.2
ZZ66908		0.52	18.6	540	21.4	5.8	<0.001	0.05	1.25	1.1	0.8	0.5	9.6	<0.01	0.03	0.6
ZZ66909		0.89	19.8	530	52.7	6.6	0.001	0.03	1.39	1.8	0.6	0.5	10.8	<0.01	0.02	2.0
ZZ66910		0.80	21.3	780	16.7	6.5	0.001	0.05	1.17	1.8	0.9	0.3	11.5	<0.01	0.01	2.7
ZZ66911		0.49	30.1	1070	50.8	10.9	0.001	0.08	2.29	1.6	1.1	0.5	14.6	<0.01	0.05	0.9
ZZ66912		0.57	27.1	860	23.4	8.1	0.001	0.03	1.51	2.7	1.1	0.5	14.6	<0.01	0.05	1.9
ZZ66913		0.57	20.4	630	24.7	8.7	<0.001	0.04	1.60	1.4	1.1	0.6	9.4	<0.01	0.05	0.5

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66874		0.013	0.06	1.22	24	0.18	4.49	77	<0.5
ZZ66875		0.013	0.07	1.48	28	0.19	5.59	76	<0.5
ZZ66876		0.013	0.10	1.35	28	0.18	3.98	72	<0.5
ZZ66877		0.006	0.05	1.27	12	0.06	5.64	88	1.9
ZZ66878		<0.005	0.05	1.38	10	<0.05	4.70	89	1.8
ZZ66879		<0.005	0.03	1.40	10	<0.05	6.32	87	1.7
ZZ66880		<0.005	0.04	1.59	6	<0.05	7.11	96	3.1
ZZ66881		0.006	0.04	0.91	11	0.10	3.94	110	1.1
ZZ66882		<0.005	0.07	1.64	17	<0.05	5.35	96	2.2
ZZ66883		0.007	0.07	2.28	16	0.08	6.15	103	1.4
ZZ66884		0.008	0.08	0.96	24	0.13	2.71	65	<0.5
ZZ66885		0.033	0.08	0.73	35	0.28	2.96	54	1.3
ZZ66886		0.021	0.06	0.65	28	0.22	2.58	61	<0.5
ZZ66887		0.007	0.05	0.88	16	0.09	3.57	75	0.8
ZZ66888		0.018	0.09	0.90	33	0.16	2.93	75	<0.5
ZZ66889		0.013	0.08	1.33	29	0.19	5.41	70	<0.5
ZZ66890		0.007	0.10	1.56	23	0.19	6.41	75	<0.5
ZZ66891		0.018	0.04	1.14	23	0.19	5.70	90	1.3
ZZ66892		0.014	0.06	1.71	27	0.22	5.66	83	<0.5
ZZ66893		0.012	0.07	1.33	24	0.19	4.22	55	<0.5
ZZ66894		0.022	0.14	0.67	58	0.26	2.45	33	<0.5
ZZ66895		0.009	0.09	0.89	31	0.19	2.90	59	<0.5
ZZ66896		0.015	0.16	0.63	56	0.22	2.09	57	<0.5
ZZ66897		0.018	0.09	1.30	29	0.21	5.79	72	0.9
ZZ66898		0.019	0.20	0.90	51	0.29	3.13	56	<0.5
ZZ66899		0.015	0.06	0.95	22	0.21	4.77	86	1.3
ZZ66900		0.026	0.15	0.55	51	0.34	2.56	46	<0.5
ZZ66901		0.028	0.10	0.52	61	0.36	1.90	58	<0.5
ZZ66902		0.020	0.10	0.78	34	0.22	3.52	62	1.1
ZZ66903		0.013	0.22	0.67	50	0.19	1.91	29	<0.5
ZZ66904		0.007	0.16	3.18	19	0.22	9.43	47	0.6
ZZ66905		0.013	0.09	3.20	27	0.22	7.76	68	0.9
ZZ66906		0.012	0.10	1.32	25	0.14	4.06	77	<0.5
ZZ66907		0.019	0.07	0.29	25	0.13	0.71	12	<0.5
ZZ66908		0.029	0.11	0.81	50	0.32	3.33	66	<0.5
ZZ66909		0.035	0.12	0.75	43	0.32	3.70	66	<0.5
ZZ66910		0.030	0.09	0.83	35	0.27	3.93	78	1.4
ZZ66911		0.018	0.15	2.08	43	0.38	6.78	103	<0.5
ZZ66912		0.034	0.12	1.49	43	0.38	7.11	88	<0.5
ZZ66913		0.029	0.15	1.34	48	0.25	6.16	73	<0.5



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ66914		0.16	0.005	0.04	1.05	58.4	<0.2	<10	50	0.21	0.41	0.03	0.11	38.6	5.2	17
ZZ66915		0.21	0.006	0.10	1.12	67.6	<0.2	<10	110	0.49	0.33	0.21	0.26	59.2	11.4	18
ZZ66916		0.16	0.005	0.15	1.04	68.6	<0.2	<10	110	0.39	0.36	0.12	0.21	33.9	7.1	16
ZZ66917		0.11	0.004	0.09	1.61	183.5	<0.2	<10	230	1.00	0.53	0.22	0.20	33.5	8.5	22
ZZ66918		0.14	0.004	0.07	1.81	210	<0.2	<10	160	1.21	0.60	0.09	0.65	37.8	12.3	24
ZZ66919		0.22	0.005	0.33	1.65	117.0	<0.2	<10	150	0.63	0.56	0.13	0.15	45.1	6.4	23
ZZ66920		0.24	0.007	0.13	1.97	111.5	<0.2	<10	70	0.77	0.70	0.06	0.34	94.3	28.8	21
ZZ66921		0.20	0.007	0.18	1.32	212	<0.2	<10	80	0.43	0.56	0.04	0.21	36.2	6.5	19
ZZ66922		0.10	0.003	0.04	0.86	45.0	<0.2	<10	120	0.26	0.39	0.32	0.17	28.5	3.0	13
ZZ66968		0.18	0.003	0.11	1.50	176.0	<0.2	<10	100	0.64	0.57	0.16	0.42	37.4	7.6	20
ZZ66969		0.19	0.009	0.72	1.09	111.5	<0.2	<10	140	0.48	0.46	0.24	0.18	34.6	5.1	14
ZZ66970		0.23	0.010	0.06	1.05	434	<0.2	<10	60	0.50	0.82	0.13	0.83	54.5	15.7	16
ZZ66971		0.18	0.029	0.05	1.49	146.5	<0.2	<10	240	0.49	0.64	0.18	0.21	36.6	12.1	22
ZZ66972		0.18	0.004	0.10	1.49	164.5	<0.2	<10	140	0.68	0.52	0.12	0.40	35.2	10.9	25
ZZ66973		0.16	0.007	0.38	1.61	167.0	<0.2	<10	200	0.74	0.59	0.24	0.40	32.2	8.6	20
ZZ66974		0.22	0.007	0.14	1.40	123.5	<0.2	<10	110	0.52	0.47	0.10	0.42	43.8	10.0	20
ZZ66975		0.22	0.005	0.10	1.31	131.0	<0.2	<10	80	0.50	0.35	0.15	0.34	63.8	11.9	20
ZZ66976		0.17	0.005	0.11	1.37	211	<0.2	<10	80	0.79	0.57	0.11	0.31	42.2	13.6	20
ZZ66977		0.20	0.003	0.12	1.87	56.0	<0.2	<10	130	0.49	0.41	0.10	0.32	28.7	9.3	31
ZZ66978		0.23	0.006	0.11	1.77	76.8	<0.2	<10	110	0.55	0.33	0.12	0.28	43.5	12.5	28
ZZ66979		0.11	0.004	0.33	1.04	23.3	<0.2	<10	100	0.36	0.25	0.10	0.19	20.9	3.7	16
ZZ66980		0.22	0.006	0.12	1.43	78.4	<0.2	<10	100	0.60	0.34	0.14	0.24	44.1	12.0	24
ZZ66981		0.16	0.004	0.16	1.32	34.8	<0.2	<10	110	0.54	0.40	0.09	0.17	34.1	14.8	20
ZZ66982		0.18	0.006	0.17	1.34	28.6	<0.2	<10	100	0.55	0.35	0.12	0.23	37.9	14.7	22
ZZ66983		0.21	0.003	0.19	1.11	52.1	<0.2	<10	90	0.40	0.34	0.06	0.13	36.8	7.9	15
ZZ66984		0.18	0.004	0.12	1.05	33.5	<0.2	<10	80	0.54	0.33	0.10	0.21	46.6	10.4	13
ZZ66985		0.22	0.006	0.19	1.50	143.0	<0.2	<10	120	0.73	0.60	0.14	0.27	59.8	22.2	18
ZZ66986		0.20	0.004	0.11	1.00	88.3	<0.2	<10	60	0.57	0.46	0.10	0.15	77.4	18.6	11
ZZ66987		0.21	0.004	0.15	1.05	74.0	<0.2	<10	60	0.42	0.43	0.04	0.10	49.3	9.3	12
ZZ66988		0.25	0.004	0.08	1.36	144.0	<0.2	<10	70	0.66	0.50	0.06	0.24	44.7	15.5	17
ZZ66989		0.20	0.004	0.11	1.09	483	<0.2	<10	90	0.45	0.32	0.10	0.19	29.0	12.9	19
ZZ66990		0.25	0.005	0.16	1.46	556	<0.2	<10	100	0.63	0.40	0.12	0.17	57.6	17.7	39
ZZ66991		0.22	0.002	0.10	1.51	149.5	<0.2	<10	70	0.30	0.37	0.04	0.15	42.0	9.3	23
ZZ66992		0.18	0.006	0.11	0.95	270	<0.2	<10	60	0.30	0.32	0.04	0.21	41.4	6.5	13



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ66914		1.29	13.0	3.35	7.15	0.05	<0.02	0.04	0.017	0.04	20.2	14.4	0.24	232	1.79	<0.01
ZZ66915		0.91	32.7	2.95	3.91	0.09	0.05	0.02	0.019	0.04	29.1	27.7	0.44	388	1.29	<0.01
ZZ66916		1.14	24.0	2.57	4.00	<0.05	<0.02	0.03	0.019	0.04	17.5	16.4	0.24	317	1.37	<0.01
ZZ66917		3.92	23.7	3.29	5.57	0.06	0.06	0.03	0.035	0.06	18.2	22.9	0.33	439	1.45	<0.01
ZZ66918		5.52	31.7	3.71	5.79	0.06	0.05	0.03	0.041	0.06	22.4	24.4	0.36	726	1.76	<0.01
ZZ66919		4.01	22.8	3.03	5.32	0.06	0.06	0.04	0.028	0.06	24.5	27.2	0.41	197	1.29	<0.01
ZZ66920		3.50	56.3	4.39	5.83	0.11	0.05	0.04	0.031	0.04	49.2	60.0	0.72	696	0.97	<0.01
ZZ66921		2.12	19.8	2.93	4.95	<0.05	<0.02	0.02	0.028	0.05	19.6	15.2	0.25	294	1.67	<0.01
ZZ66922		2.44	10.5	1.88	5.24	<0.05	<0.02	0.02	0.013	0.05	15.7	7.4	0.11	157	1.51	<0.01
ZZ66968		2.98	17.0	3.55	4.94	0.05	0.02	0.02	0.028	0.05	20.0	19.1	0.28	458	1.29	<0.01
ZZ66969		3.16	20.6	1.85	4.11	0.05	<0.02	0.05	0.021	0.05	18.1	8.2	0.15	272	1.09	0.01
ZZ66970		1.52	27.2	3.93	3.07	0.07	0.03	0.02	0.029	0.05	27.0	22.0	0.35	857	1.11	<0.01
ZZ66971		2.69	23.6	3.85	6.46	0.05	0.03	0.02	0.033	0.06	19.6	18.4	0.33	595	1.83	<0.01
ZZ66972		1.62	20.9	3.46	5.33	0.05	<0.02	0.02	0.030	0.06	16.6	24.2	0.38	556	1.56	<0.01
ZZ66973		3.02	27.1	3.12	4.55	0.05	<0.02	0.03	0.029	0.07	17.1	28.7	0.38	417	1.08	0.01
ZZ66974		1.53	26.2	3.44	4.64	0.06	<0.02	0.02	0.023	0.04	22.9	23.7	0.35	559	1.37	<0.01
ZZ66975		0.91	24.7	3.18	4.30	0.08	0.04	0.02	0.021	0.04	33.2	34.4	0.47	496	1.17	<0.01
ZZ66976		2.26	33.9	3.74	4.31	0.06	<0.02	0.03	0.033	0.04	23.0	30.1	0.39	651	1.24	<0.01
ZZ66977		1.90	16.7	4.06	7.01	<0.05	<0.02	0.05	0.037	0.06	15.0	25.8	0.51	518	1.76	0.01
ZZ66978		1.52	25.5	3.24	5.50	0.06	<0.02	0.03	0.029	0.05	22.4	24.1	0.52	639	1.77	0.01
ZZ66979		1.35	18.4	1.77	4.66	<0.05	<0.02	0.07	0.023	0.04	10.6	5.9	0.12	87	1.56	0.01
ZZ66980		1.48	31.6	3.26	4.22	0.06	<0.02	0.03	0.022	0.05	22.3	27.2	0.46	459	1.59	0.01
ZZ66981		2.01	34.4	3.42	3.69	<0.05	0.02	0.02	0.022	0.04	16.9	29.2	0.40	662	1.32	0.01
ZZ66982		1.58	31.8	3.10	4.37	0.05	<0.02	0.02	0.024	0.05	19.9	29.3	0.42	853	1.63	0.01
ZZ66983		1.51	21.7	3.02	3.78	<0.05	<0.02	0.02	0.019	0.05	18.6	27.1	0.28	442	0.94	0.01
ZZ66984		1.15	26.2	3.11	2.96	0.05	0.02	0.14	0.019	0.06	24.8	27.5	0.28	527	0.98	0.01
ZZ66985		3.01	42.5	4.13	3.72	0.06	0.05	0.02	0.028	0.05	28.8	36.5	0.40	1640	1.03	0.01
ZZ66986		1.20	38.0	3.70	2.60	0.09	0.02	0.02	0.023	0.05	40.0	29.3	0.30	713	0.59	0.01
ZZ66987		1.70	27.7	3.16	3.13	0.05	0.05	0.01	0.020	0.05	24.8	35.4	0.29	356	0.76	0.01
ZZ66988		2.34	32.1	3.88	3.81	0.05	0.03	0.02	0.025	0.06	23.5	40.6	0.34	724	1.00	0.01
ZZ66989		1.99	19.3	2.90	3.23	<0.05	<0.02	0.03	0.019	0.05	15.2	16.4	0.31	595	1.05	0.01
ZZ66990		2.65	30.0	3.37	4.04	0.05	0.03	0.01	0.022	0.04	29.0	35.5	0.55	800	0.89	0.01
ZZ66991		1.26	21.6	4.50	4.66	<0.05	0.03	0.01	0.021	0.05	20.8	31.1	0.40	598	1.65	0.01
ZZ66992		1.32	19.0	2.66	3.98	<0.05	<0.02	0.03	0.015	0.05	20.2	11.3	0.17	340	1.29	0.01

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



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Project: Lance

CERTIFICATE OF ANALYSIS WH12163468

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ66914	0.05	0.83	14.1	450	16.7	7.2	<0.001	0.03	1.84	1.2	0.5	0.7	5.5	<0.01	0.04	2.0
ZZ66915	0.05	0.41	27.0	740	20.1	4.3	0.001	0.02	2.44	2.7	0.8	0.3	20.4	<0.01	0.03	8.7
ZZ66916	0.05	0.20	17.4	880	20.9	6.2	<0.001	0.06	2.68	0.5	0.6	0.4	16.1	<0.01	0.04	0.4
ZZ66917	0.05	0.38	21.3	1410	30.5	14.0	<0.001	0.10	2.90	0.8	0.7	0.6	28.3	<0.01	0.04	0.5
ZZ66918	0.05	0.46	23.3	1580	53.4	11.3	0.001	0.09	3.90	2.1	0.8	0.5	13.5	<0.01	0.05	1.4
ZZ66919	0.05	0.44	20.5	1090	27.8	11.4	0.001	0.07	3.47	1.7	0.7	0.5	16.2	<0.01	0.01	1.9
ZZ66920	0.05	0.13	38.8	490	53.6	4.5	0.001	0.02	7.03	1.9	0.9	0.2	8.1	<0.01	0.08	14.5
ZZ66921	0.05	0.27	15.9	860	30.5	9.6	<0.001	0.06	4.54	0.5	0.8	0.6	7.4	<0.01	0.04	0.2
ZZ66922	0.05	0.36	8.2	720	15.9	8.1	0.001	0.06	1.21	0.5	0.4	0.6	18.4	<0.01	0.02	0.2
ZZ66968	0.05	0.43	17.0	1190	33.7	10.0	<0.001	0.08	3.31	1.0	0.4	0.5	13.7	<0.01	0.03	0.8
ZZ66969	0.05	0.23	11.0	1240	23.8	10.1	<0.001	0.12	2.76	0.4	0.9	0.6	24.9	<0.01	0.02	<0.2
ZZ66970	0.05	0.39	28.5	840	38.7	5.7	<0.001	0.04	5.16	1.9	0.7	0.3	13.1	<0.01	0.03	5.3
ZZ66971	0.05	0.69	20.7	780	37.5	9.6	0.001	0.05	3.63	1.7	0.5	0.6	20.9	<0.01	0.07	1.4
ZZ66972	0.05	0.48	20.4	900	28.3	10.5	0.001	0.08	2.48	0.9	1.0	0.6	16.4	<0.01	0.04	0.5
ZZ66973	0.05	0.31	21.9	1090	31.8	10.8	0.001	0.09	2.82	1.1	0.7	0.5	28.0	<0.01	0.03	0.6
ZZ66974	0.05	0.33	21.2	780	29.3	7.6	<0.001	0.04	2.26	1.0	0.8	0.4	11.8	<0.01	0.05	0.8
ZZ66975	0.05	0.51	26.0	630	35.1	5.1	<0.001	0.02	3.78	2.0	0.9	0.3	15.6	<0.01	0.06	7.9
ZZ66976	0.05	0.20	24.2	760	49.1	6.1	<0.001	0.05	2.76	0.8	1.5	0.3	12.9	<0.01	0.06	0.7
ZZ66977	0.05	0.95	18.6	850	23.5	9.6	<0.001	0.06	1.13	1.8	1.3	0.7	11.7	<0.01	0.04	0.9
ZZ66978	0.05	0.70	24.7	840	32.5	8.6	0.001	0.03	1.27	2.9	1.2	0.6	12.8	<0.01	0.02	2.3
ZZ66979	0.05	0.24	10.4	1450	25.2	4.9	<0.001	0.16	0.99	0.2	0.7	0.4	11.6	<0.01	0.04	<0.2
ZZ66980	0.05	0.58	28.9	780	26.1	6.4	<0.001	<0.01	1.74	2.5	0.8	0.3	14.6	<0.01	0.04	3.1
ZZ66981	0.05	0.51	28.1	610	33.6	6.2	<0.001	<0.01	1.49	2.2	0.8	0.3	13.1	<0.01	0.03	3.7
ZZ66982	0.05	0.63	28.5	730	30.3	7.1	<0.001	<0.01	1.22	2.3	0.8	0.4	14.5	<0.01	0.03	2.6
ZZ66983	0.05	0.25	18.4	740	22.3	8.1	<0.001	0.03	1.03	0.4	0.3	0.3	9.6	<0.01	0.04	0.3
ZZ66984	0.05	0.26	22.8	550	31.3	6.4	<0.001	0.03	1.38	0.9	0.3	0.2	18.2	<0.01	0.04	1.6
ZZ66985	0.05	0.24	33.4	700	45.2	6.1	<0.001	0.02	2.18	1.8	0.6	0.3	19.0	<0.01	0.06	3.6
ZZ66986	0.05	0.12	32.7	500	39.8	3.6	<0.001	<0.01	1.88	1.8	0.4	0.2	16.2	<0.01	0.03	7.0
ZZ66987	0.05	0.18	23.1	620	31.9	6.4	<0.001	0.03	1.66	1.0	0.3	0.2	11.2	<0.01	0.03	2.6
ZZ66988	0.05	0.29	26.1	620	39.7	7.7	<0.001	0.02	1.86	1.1	0.5	0.3	12.7	<0.01	0.05	2.1
ZZ66989	0.05	0.32	20.5	790	42.2	7.1	<0.001	0.05	1.91	0.8	0.4	0.3	13.1	<0.01	0.04	0.6
ZZ66990	0.05	0.29	30.6	540	43.2	6.1	<0.001	<0.01	2.32	2.7	0.5	0.3	17.1	<0.01	0.04	3.8
ZZ66991	0.05	0.92	22.5	590	35.4	8.6	<0.001	0.01	1.48	1.7	0.5	0.4	8.5	<0.01	0.04	2.9
ZZ66992	0.05	0.38	14.8	580	29.4	9.6	<0.001	0.02	1.88	0.5	0.3	0.4	8.5	<0.01	0.03	0.3

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ66914		0.031	0.16	0.69	58	0.27	2.54	47	<0.5
ZZ66915		0.032	0.06	1.59	28	0.31	8.25	84	2.9
ZZ66916		0.010	0.09	1.13	27	0.21	4.26	59	<0.5
ZZ66917		0.012	0.13	1.84	38	0.21	7.76	78	0.5
ZZ66918		0.014	0.13	4.21	38	0.27	11.55	94	1.5
ZZ66919		0.013	0.14	2.18	30	0.47	7.19	77	1.5
ZZ66920		<0.005	0.05	1.49	15	0.12	5.99	105	2.5
ZZ66921		0.013	0.14	1.07	37	0.22	3.33	60	<0.5
ZZ66922		0.017	0.14	1.07	49	0.27	2.77	35	<0.5
ZZ66968		0.015	0.13	1.59	37	0.21	4.53	108	0.7
ZZ66969		0.007	0.12	2.89	30	0.24	8.68	53	<0.5
ZZ66970		0.016	0.06	1.06	20	0.19	5.64	186	1.0
ZZ66971		0.020	0.15	0.94	50	0.26	4.96	112	0.8
ZZ66972		0.020	0.11	1.46	42	0.25	7.51	110	<0.5
ZZ66973		0.012	0.12	2.41	32	0.27	8.49	120	0.5
ZZ66974		0.017	0.12	1.25	36	0.32	5.50	111	<0.5
ZZ66975		0.024	0.06	1.01	26	0.28	5.24	90	1.7
ZZ66976		0.012	0.06	1.39	25	0.27	7.26	101	<0.5
ZZ66977		0.031	0.19	0.88	63	0.28	4.81	85	<0.5
ZZ66978		0.043	0.15	1.37	48	0.39	7.03	95	<0.5
ZZ66979		0.007	0.09	1.31	32	0.15	3.84	35	<0.5
ZZ66980		0.030	0.09	1.64	37	0.45	6.35	95	0.5
ZZ66981		0.019	0.08	1.43	29	0.18	4.88	87	0.7
ZZ66982		0.029	0.10	1.48	37	0.30	5.42	90	<0.5
ZZ66983		0.009	0.08	1.08	23	0.13	3.27	63	<0.5
ZZ66984		0.009	0.07	1.18	17	0.17	3.99	77	0.6
ZZ66985		0.008	0.07	2.02	17	0.10	6.92	115	1.5
ZZ66986		0.005	0.04	1.92	11	0.06	6.06	97	1.0
ZZ66987		0.006	0.07	1.43	14	0.07	3.84	68	1.4
ZZ66988		0.009	0.08	1.40	20	0.12	3.94	89	0.9
ZZ66989		0.012	0.08	1.08	25	0.24	3.61	71	<0.5
ZZ66990		0.011	0.06	1.34	25	0.16	6.19	83	1.0
ZZ66991		0.022	0.13	0.79	36	0.25	2.85	81	1.0
ZZ66992		0.015	0.09	0.69	31	0.23	2.66	59	<0.5



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CERTIFICATE OF ANALYSIS WH12163468

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

APPENDIX IV
STATEMENT OF EXPENDITURES

Statement of Expenditures
Lance 1-332 Mineral Claims
July 25, 2012

Labour

S. Eaton (geologist) June 2012 – 8 days @ \$765/day	\$ 6,854.40
A. Mitchell (field assistant) June to July 2012 – 19 days @ \$595/day	12,661.60
T. Epp (field assistant) June to July 2012 – 19 days @ \$476/day	10,129.28
S. LaFleur (field assistant) June to July 2012 – 19 days @ \$374/day	7,958.72
M. Van Loon (field assistant) June to July 2012 – 19 days @ \$340/day	<u>7,235.20</u>
	44,839.20

Expense (including management fee)

Field room and board – 84 mandays @ \$175/manday	17,781.12
Fireweed Helicopters – 2.1 hrs Hughes 500D @ \$1050/hr plus fuel	2,500.47
– 7.3 hrs L4 @ \$1550/hr plus fuel	12,831.21
Black Sheep Aviation – 93 miles @ \$10.60/mile	1,117.90
– 230 miles @ \$11.25/mile	2,934.23
ALS Chemex	33,486.27
Report preparation	<u>5,000.00</u>
	75,651.20

Total \$120,490.40