2012 Diamond Drilling, Geological, Geophysics and Geochemical Report

for the

Justin Property and the VF Property

Volume I - Report

Justin 1-4 (YB59913 – YB59916), Justin 5-25 (YB70809 - YB70829), SP 1-50 (YC73232 – YC73281),

SP51-55 (YD65452 – YD65456), SP 57-88 (YD87903 – YD87933), SP 89-207 (YF33001 – YF33119)

VF 1-144 (YD25701-YD25844)

Watson Lake Mining District, Southeastern Yukon Territory

Map sheet 105-H-09

Latitude 61° 42' N, Longitude 128°10'W

Prepared for:

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February 15th, 2013

Summary

The Justin and VF properties are located approximately 190 kilometres north of Watson Lake, Yukon Territory. The Justin property consists of 231 contiguous quartz claims (Justin 1-25, SP 1 – 55 and SP 57 – 207) and the VF property consists of 144 contiguous quartz claims (VF 1 - 144) within the Watson Lake mining district. The Justin claims are owned 100% by Aben Resources Ltd. Gold Royalties has agreed to purchase the 2% Net Smelter Royalties currently held by Eagle Plains Resources Ltd., relating to any future production at the Justin Project. Bernie Kreft of Whitehorse, YT also holds a 1 % Net Smelter Royalty on the Justin property. Aben Resources holds the right to purchase one-half of the Justin royalties from Gold Royalties, and all of the Justin royalties held by Bernie Kreft for a one time cash payment of $1,000,000 each. In March of 2012 Aben Resources Ltd entered into an option agreement with Bearing Resources Ltd., whereby Aben may earn in 100% interest in the VF Gold Project in the southeast Yukon. The VF quartz claims are contiguous with the western border of Aben's Justin Gold Project quartz claims and allow the company to increase it's Justin property holdings to approximately 18,300 acres total.

The regional geology of the southeast Yukon is represented by basement rocks of the Selwyn Basin, dominated by the late Precambrian to early Cambrian Hyland Group sediments. Most of the mineralization in the region is thought to be controlled by the mid-Cretaceous Tombstone-Tungsten Suite of intrusive stocks, typically quartz monzonite, which extend from southwestern Alaska through the Fairbanks and Dawson areas to the Yukon – British Columbia-North West Territories border. The Justin Property is underlain primarily by sedimentary rocks assigned to the Yusezyu Formation of the Hyland Group, and by sedimentary rocks assigned to the stratigraphically younger Cambro-Ordovician Rabbitkettle Formation.

The Justin Property area was first explored in 1964, when a Norquest Joint Venturestaked the RAIN claim to cover skarn and replacement style pyrite, pyrrhotite and chalcopyrite mineralization. The Joint Venture carried out geological mapping and a surface magnetic survey in 1965.

The area was re-staked as the BJ claim in 1975 by B. Corrigan, and again in 1980 by Majestic Mg. Corporation as the SUN claim group. Majestic optioned the claims to Vancliffe Resource Corporation. In 1981, Waterloo Energy Corp tied on the Lightning claims to the south and staked a separate block two kilometres south of the SUN claims. Vista Resources tied on two more SUN claims in 1987. A 1987 joint venture between Vista, Vancliffe, and Conquest drilled four holes across the “Main Skarn zone” to test for copper-gold mineralization. Noranda Exploration tied on the PTAR c laims along the north side in 1988, and E.G. Sykes staked two additional SUN claims in 1990. The claims all lapsed in the early 1990s.

In 1996, Hemlo carried out reconnaissance exploration in the area that led to the staking of the SPROGGE 1-74 claims southwest of the Justin Property. The entire claim group was consolidated as the Sprogge Property under a 1997 option agreement with Viceroy Exploration, which conducted geologic mapping, prospecting, soil sampling, and limited hand trenching.

Chip sampling of coarse clastic hosted mineralized quartz veins in the Confluence zone by Viceroy in the late 1990's returned values up to 4.24 g/t gold (Au) over 4.50 metres. Viceroy also sampled skarn hosted mineralization in the Main Skarn and Kangas zones, which returned values to 2.38 g/t Au over 22.50 metres and 1.60 g/t Au over 1.50 metres respectively.

The Viceroy option was transferred to NovaGold Resources in 1999 as part of an underlying deal. NovaGold dropped their option on the JUSTIN 1-25 Claims in 2000. The claims were optioned by Eagle Plains Resources Ltd. from property owner Bernie Kreft in 2001.

In 2010 exploration efforts by Eagle Plains Resources Ltd confirmed historical results from the Main, Kangas and Confluence zones and identified a new mineral occurrence within the northern most portion of the property, adjacent to a previously unknown intrusive stock. The new occurrence, named the POW zone, exhibits mineralization similar to both the Main zone and Confluence zone. 2010 results from the POW zone returned 0.50 g/t Au over 3.00 m in a chip sample, and grab samples from two different locations returning up to 2.4 g/t Au from skarn mineralization and 3.00 g/t Au from quartz-calcite veins.

The winter of 2010-2011 saw the Justin property change ownership from Eagle Plains Resources Ltd. to Aben Resources Ltd. through an agreement by which Aben acquired a 100% interest in the property subject to a 3 % NSR to Eagle Plains Resources.

Aben followed up the 2010 field work conducted by Eagle Plains Resources with an aggressive grassroots diamond drill program. Ten diamond drill holes totalling 2000 metres were drilled in 2011 systematically exploring all of the known mineral occurrences on the property. Significant results were returned from the POW zone where JN11009 returned 60.0 metres grading 1.19 g/t Au, and JN11010 returned 23.00 metres grading 1.58 g/t Au.

Encouraged by the 2011 results, Aben Resources Ltd set out in 2012 with another aggressive exploration program to follow

up on the POW zone results with concurrent exploration on outlier areas of the Justin property.

Nine diamond drill holes totalling 1994 metres were drilled in the 2012 field season, expanding the known extents of the POW zone and greatly enhancing the understanding of the local geology. Highlights from the 2012 diamond drilling include 46.60 metres grading 1.49 g/t Au in JN12011, 5.40 metres grading 4.12 g/t Au in JN12016, and 21.90 metres grading 1.06 g/t Au in JN12018.

Reconnissance geochemical surveys were conducted on both the Justin and VF properties to evaluate the potential for expanding known zones of mineralization and discovering new prospective zones of mineralization.

The Justin property, and the POW zone specifically, represents a new discovery of mineral styles representing a reduced intrusion-related gold system (IRGS). The gold system developed in a region of the Yukon previously better known for tungsten, and contributes to further increasing the region's development as a new and emerging gold district (Hart, 2012).

The Justin property has the potential to host one or more economic gold+/-copper+/-tungsten deposits. Further prospecting, geochemical surveys, and exploration diamond drilling is recommended to further evaluate the economic potential of the Justin and VF properties.

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INTRODUCTION

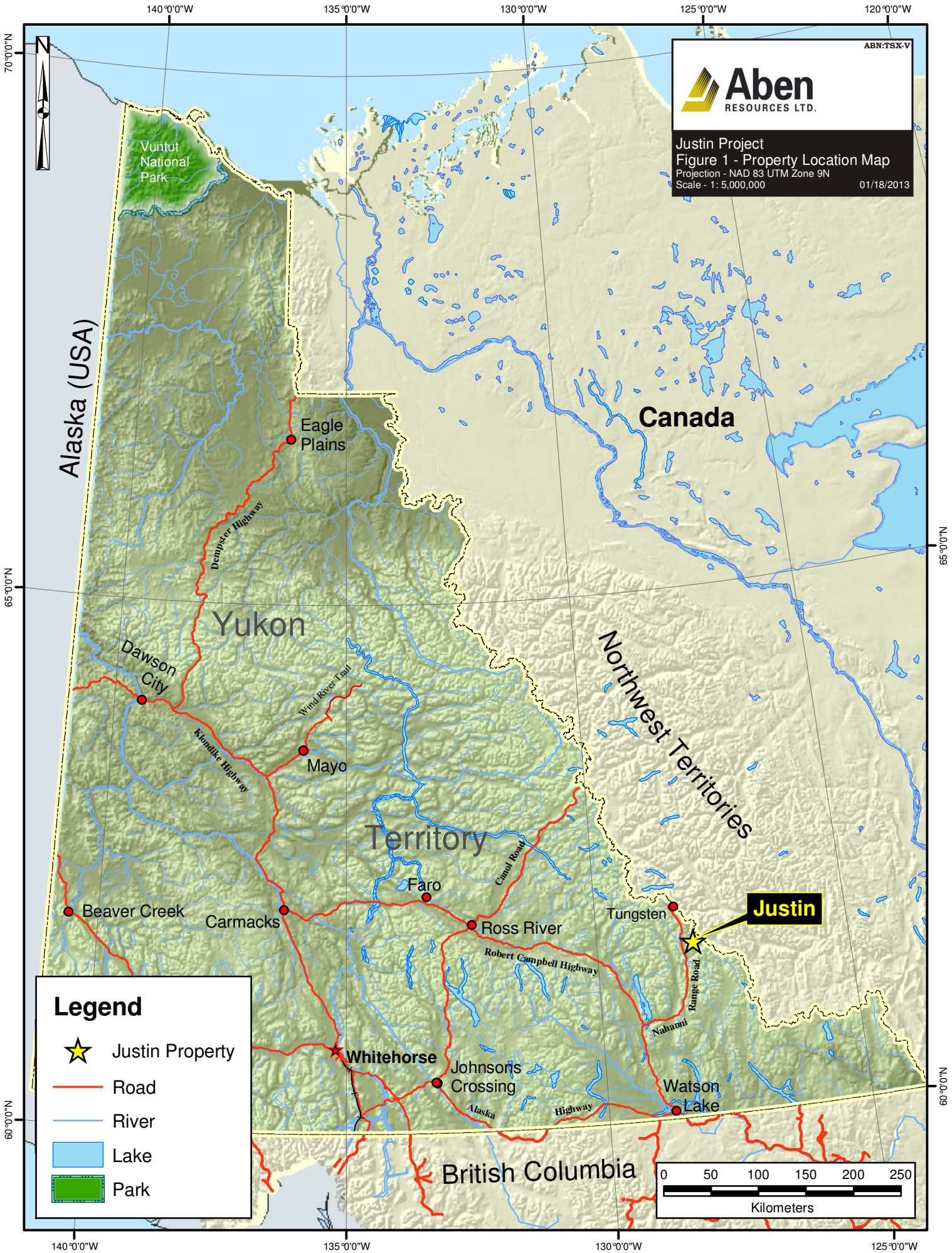
Location and Access

The Justin property (Justin 1-25 claims, SP claims 1-55 and 57-207) and VF property (VF 1 - 144) are located in the southeast-central Yukon Territory on Map sheet 105-H-09 approximately 190 kilometres north of Watson Lake. The claims are centered at approximately Latitude 61° 42' N / Longitude 128°10'W; NTS Nad 83 zone 9N 6841036 N / 543970 E. The Nahanni Range Road extends along the western boundary of the property. The road was rehabilitated in 2002 with the re-opening of the Cantung tungsten mine and provides all-weather access to both the properties and the camp.

Helicopter access to the property is equidistant from bases in Watson Lake or Ross River, with the closest location for air support in the summer months coming from Kluane Airways based out of the Innconu Lodge. Equipment and personnel can be mobilized into the work area from the Justin Project Base Camp, located at kilometre 143 of the Nahanni Range Road.

The tenure covers rugged glaciated terrain typical of the Logan Mountains with elevations ranging from 1,200 to 2,000 metres. A prominent east-west trending ridge extends through the property, with steep south facing slopes and somewhat more moderate north facing talus slopes at the base of 100-200 metre cliff exposures. The property is crossed with several north-south trending valleys with deep west-northwest trending U-shaped glacial valleys along the northern and southern property boundaries. The Sprogge Creek valley located in the northwestern quadrant of the property provides unobstructed flight access into the property.

Much of the property is covered by talus and rubble crop. Outcrop exposure is greatest at higher elevations; lower elevations typically have a thin to moderate alpine glacial till blanket covering most of the bedrock with the exception of some of the lower creek gulleys. Higher elevations are generally covered by alpine tundra type vegetation, extending into thick buckbrush and scrub vegetation at mid-elevations on south facing slopes; lower elevations typically support subalpine spruce and fir forests.


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Justin Project
Figure 1 - Property Location Map
Projection - NAD 83 UTM Zone 9N
Scale - 1: 5,000,000
01/18/2013
140°0'0"W
135°0'0"W
130°0'0"W
125°0'0"W
120°0'0"W
70°0'0"N
65°0'0"N
60°0'0"N
Vuntut National Park
Alaska (USA)
Canada
Eagle Plains
Dempster Highway
Yukon
Dawson City
Wind River Trail
Klondike Highway
Mayo
Territory
Northwest Territories
Faro
Canol Road
Beaver Creek
Carmacks
Ross River
Tungsten
Justin
Robert Campbell Highway
Range Road
Nahanni
Whitehorse
Johnsons Crossing
Alaska Highway
Watson Lake
British Columbia
Legend
Justin Property
Road
River
Lake
Park
0 50 100 150 200 250
Kilometers

Tenure

The Justin property consists of 231contiguous quartz claims totaling 11,097 ha located on NTS Map sheet 105H09 within the Watson Lake Mining District. The claims are owned 100% by Aben Resources Ltd. Gold Royalties has agreed to purchase the 2% Net Smelter Royalties for the Justin property currently held by Eagle Plains Resources Ltd., relating to any future production at the Justin project. Bernie Kreft of Whitehorse, YT also holds a 1 % Net Smelter Royalty on the Justin property. Aben Resources holds the right to purchase one-half of the Justin royalties from Gold Royalties and all of the Justin royalties held by Bernie Kreft for a one time cash payment of $1,000,000 each .

Table 1: Tenure Summary for the Justin Property

District	Grant Number	Claim Name	Claim Owner	Claim Expiry Date	Status	Map Number
Watson Lake	YB59913 - YB70829	JUSTIN 1 - 25	ABEN RESOURCES LTD. - 100%	29/11/2022	Active	105H09
Watson Lake	YC73232 - YC73281	SP 1-50	ABEN RESOURCES LTD. - 100%	29/11/2022	Active	105H09
Watson Lake	YD65452 - YD65456	SP 51-55	ABEN RESOURCES LTD. - 100%	29/11/2020	Active	105H09
Watson Lake	YD87903 - YD87934	SP 57 - 88	ABEN RESOURCES LTD. - 100%	29/11/2016	Active	105H09
Watson Lake	YF33001 - YF33119	SP 89 - 207	ABEN RESOURCES LTD. - 100%	29/11/2017	Active	105H09

In March of 2012 Aben Resources Ltd entered into an option agreement with Bearing Resources Ltd., whereby Aben may earn in 100% interest in the VF Gold Project in the southeast Yukon. The VFquartz claims consisting of 144 contiguous quartz claims border Aben's Justin Gold Project quartz claims and allow the company to increase it's Justin property holdings to approximately 18,300 acres total. Under the terms of the agreement, Aben has the option to earn a 100% interest in the approximately 7,200 acre VF property by making a total of $150,000 in cash payments and issuing a total of 1,000,000 common shares to Bearing Resources over a 4 year period and incur $100,000 of exploration expenditures on the Property during the first year. The property shall be subject to a two percent net smelter return royalty in favor of Bearing Resources. Aben Resources has been granted a right to purchase 1% of the NSR for the consideration of $1,500,000. Add VF Property details

Table 2: Tenure Summary for the VF Property

District	Grant Number	Claim Name	Claim Owner	Claim Expiry Date	Status	Map Number
Watson Lake	YD25701 - YD25844	VF 1 - 144	BEARING RESOURCES LTD. - 100%	10/18/16	Active	105H09

530000 535000 540000 545000 550000

6845000 6840000 6835000

N

ABN:TSX-V

Aben RESOURCES LTD.

Justin and VF Projects

Figure 2 - Quartz Claim Map

Projection - NAD 83 UTM Zone 09N

Scale - 1: 65,000 2/13/2012

Natural Range Road

Legend

- Yukon Border
- All Season Road
- Aben Resources Ltd. Quartz Claim
- River

0 2 4 6 8 10 km

530000 535000 540000 545000 550000

History and Previous Work

The Justin Property area was first explored in 1964, when a Norquest Joint Venture staked the RAIN claim to cover skarn and replacement style pyrite, pyrrhotite, and chalcopyrite mineralization. The Joint Venture carried out geological mapping and a surface magnetic survey in 1965. The area was re-staked as the BJ claim in 1975 by B. Corrigan and again in 1980 by Majestic Mg. Corporation as the SUN claim group. Majestic optioned the claims to Vancliffe Resource Corporation. In 1981, Waterloo Energy Corp tied on the Lightning claims to the south and staked a separate block two kilometres south of the SUN Claims. Vista Resources tied on two more SUN claims in 1987. A 1987 joint venture between Vista, Vancliffe, and Conquest drilled four holes across the "Main Skarn zone" to test for copper-gold mineralization. Noranda Exploration tied on the PTAR claims along the north side in 1988, and E.G. Sykes staked two additional SUN claims in 1990. The claims all lapsed in the early 1990s.

In June 1995 Bernie Kreft of Whitehorse staked the JUSTIN 1-4 claims to cover the central "Main Skarn zone" area and carried out limited prospecting to the southeast. The claims were optioned by Hemlo Gold Mines Inc in 1995, which staked the JUSTIN 5-25 claims to the east, west and south of the Justin Property in October 1995.

In 1996, Hemlo carried out reconnaissance exploration in the area that led to the staking of the SPROGGE 1-74 Claims southwest of the Justin Property. The entire claim group was consolidated as the Sprogge Property under a 1997 option agreement with Viceroy Exploration, which conducted geologic mapping, prospecting, soil sampling, and limited hand trenching. The option was transferred to NovaGold Resources in 1999 as part of an underlying deal. NovaGold dropped their option on the JUSTIN 1-25 Claims in 2000. The claims were optioned by Eagle Plains Resources Ltd. from property owner Bernie Kreft in 2001.

In 2010 Eagle Plains Resources Ltd conducted a 16 day field program with a crew of 5 workers and a 207 line km airborne geophysical survey. The focus of the program was to evaluate and re-sample the known mineralization occurrences and locate further mineralization on the property. The purpose of the airborne geophysical survey was to locate any buried intrusions and major structural features that could be controlling and influencing mineralization on the property. A total of 135 rock samples, 61 silt samples, and 209 soil samples were taken over the course of the program.

The 2010 exploration program on the property was successful in outlining an abundance of mineralized occurrences returning greater than 1 g/t Au. Channel sampling from the Confluence and Main zone, and chip sampling from the Kangas zone confirmed and expanded on the historical results. The Main zone returned results as high as 11.00 m grading 1.4 g/t Au, 3 g/t Ag, and 0.18 % Cu, including 3.00 m grading 3.04 g/t Au, 4 g/t Ag, and 0.22% Cu as well as 7.00 m at 2.07 g/t Au, including 3.00 m grading 3.15 g/t Au. The Confluence zone returned results including 1.6 g/t Au, 2.4 g/t Ag over 4.00 m while the Kangas zone returned 1.50 m grading 2.85 g/t Au, 4.2 g/t Ag.

The airborne geophysical survey conducted in 2010 was successful in outlining potential target areas of coincident magnetic and electromagnetic anomalies.

Follow up of the geophysical survey late in the 2010 field program led to the discovery of a new mineral occurrence in the northwestern portion of the property adjacent to a previously unknown intrusive stock. The new mineral occurrence has been named the POW zone. It exhibits mineralization styles similar to both the Main and Confluence zones. Results from 2010 include 0.5 g/t Au over 3.00 m in a chip sample: grab samples from different locations within the zone returned values up to 2.4 g/t Au in skarn mineralization and 3.0 g/t Au in mineralized quartz-calcite veins.

The 2011 exploration program consisted of 58 field days, of which the primary focus was to drill-test mineral occurrences outlined by previous exploration activities. Four zones of interest were explored during the 2011 program: the Main Skarn zone, Kangas zone, Confluence zone, and the POW zone. The latter three of these zones were drill tested for the first time.

A small component of mapping, prospecting, and soil sampling occurred concurrently with diamond drilling activities to follow up on the POW zone discovery. A total of 2,020 metres of NQ-size core was drilled in 10 diamond drill holes. A total of 1,374 drill core samples, 52 rock samples, 1 silt sample, and 63 soil samples were collected over the duration of the program. All samples were shipped to ALS Minerals in Whitehorse, YT, Canada for preparation and then transported to ALS Minerals in Vancouver, BC, Canada for analysis.

The 2011 exploration program was successful in confirming gold+/-silver mineralization at all four zones. Of importance was the significant discovery of gold-bearing skarn and stockwork veining within the POW zone, highlighted in diamond drill holes JN11009 and JN11010. Highlights from the POW zone include 60.00 metres grading 1.19 g/t Au (JN11009) and 11.30 metres grading 2.70 g/t Au, 29 g/t Ag (JN11010). The POW zone and the immediate surrounding area is currently believed to hold the greatest potential to host an economic deposit on the Justin property.

Results from the Main Skarn zone and the Confluence zone were encouraging as they prove that gold mineralization extends below their respective surface expressions. Highlights from the Confluence zone include 4.60 m grading 1.15 g/t Au. Highlights from the Main zone include 0.25 m grading 5.37 g/t Au. Although the economic potential of these zones appears limited at this time, the results do prove that elevated concentrations of precious metals occur in both zones. The widespread mineralization is thought to be indicative of one large interconnected intrusion related hydrothermal fluid system.

The surficial geochemical program in 2011 focused on mapping, prospecting, and sampling of the POW zone. Prospecting efforts returned several samples containing gold+/-silver mineralization. Highlights from the POW zone include grab samples returning values up to 8.97 g/t gold and 84.1 g/t silver (MMJNR034) from quartz-calcite veining, and chip samples returning up to 0.86 g/t gold and 18.4 g/t silver over 1.20 metres from a breccia zone (MMJNR029). Reconnaissance mapping, prospecting, rock sampling, and one soil line were conducted south and west of the Confluence zone. No significant results were obtained from these regions during the two days spent on the ground. Further exploration was recommended for the southeast quadrant of the property to follow up on anomalous geochemical and geophysical targets defined by 2010 exploration activities.

GEOLOGY

Regional Geology

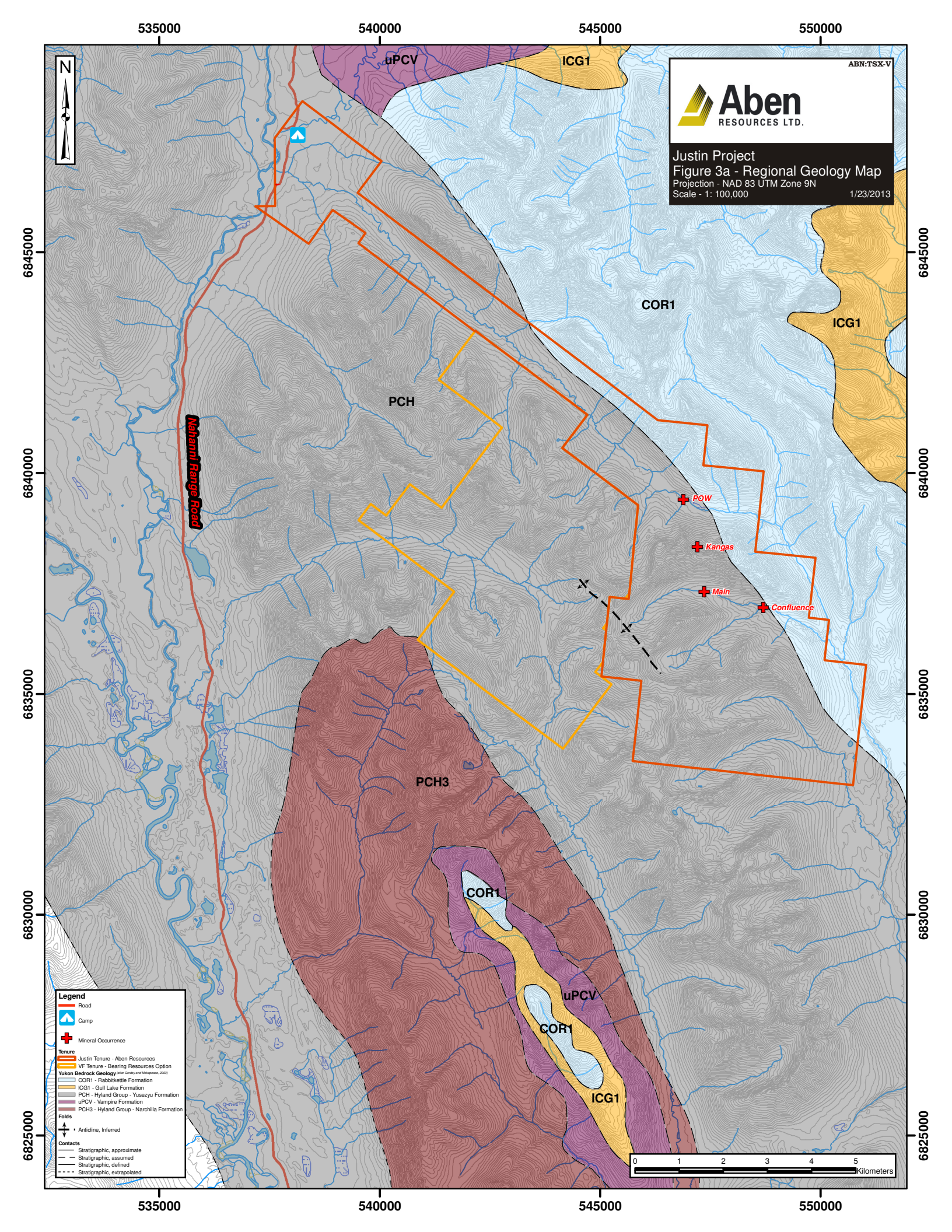
The Justin property lies within the Selwyn Mountains and is underlain by a sequence of Selwyn Basin stratigraphy at least 1.5 kilometres thick, composed primarily of shallow marine shelf and off-shelf sedimentary rock derived from the ancient North American Platform. Strata were deposited from late Precambrian to Permian time, with accelerated deposition coinciding with periods of continental uplift, creating specific stratigraphic “Groups”.

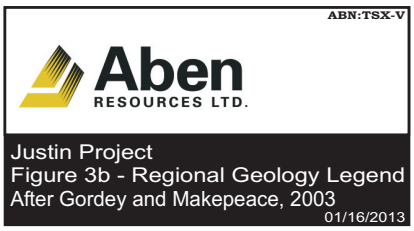
The Justin area is underlain primarily by Late Precambrian to Early Cambrian Hyland Group stratigraphy, consisting primarily of phyllite, calcareous phyllite, and coarse clastic sediments, with lesser limestone. The fine sediments represent a shallow marine depositional environment, typical of a back-arc basin, although the coarse clastics may represent regions of deltaic or possibly submarine channel emplacement. Tectonic deformation and faulting has resulted in a pronounced NW-SE structural fabric which begins to “bend” southward near the NWT Border. The Hyland Group sequence is separated from younger Cambrian to Ordovician Rabbitkettle Formation thin to medium bedded limestone to the north by a pronounced transcurrent NW-SE trending fault, which is interpreted to represent a significant tectonic event. The regional structure was named the March Fault by Hart and Lewis in 2006.

The Justin claims occur near the eastern limit of a suite of alkaline intrusive rocks known as the Tombstone-Tungsten Plutonic Suite. This intrusive belt consists of a broad suite of mid-Cretaceous (+/- 91Ma) quartz monzonite stocks and plutons extending more than 400 kilometres ESE from just east of the Alaskan border to just beyond the western NWT border. The intrusives often occur as dykes and apophyses, associated with broad zones of hornfels. Tombstone-Tungsten Suite stocks have been emplaced locally within, and to the north of the Justin claims. These intrusives control most of the known mineralization in the area, most notably the Cantung skarn hosted tungsten deposit located 30 km to the north, and similar sub-economic mineralization underlying the Tuna Property located 10 km to the north. A biotite quartz monzonite to granodiorite stock and a suite of related quartz-feldspar porphyry and aplite dykes occur within the bounds of the Justin property.

The Justin claims occur where Selwyn Basin stratigraphy and the NW-SE regional structural fabric begins to curve southwards. Major fault controlled drainages, primarily the Hyland and Little Hyland Rivers, show that major “linears” extend nearly N-S. Emplacement of the Tombstone-Tungsten Suite intrusions occurred after the major regional faulting.

A preliminary assessment of the geology of the Hyland River area was conducted by the Yukon Geological Survey during the summer of 2012. The data collected during this assessment will be reviewed during the winter of 2013; conclusions from this assessment will determine if field crews will re-visit the Hyland River area to update the regional geology during the 2013 field season.


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Figure 3a - Regional Geology Map
Projection - NAD 83 UTM Zone 9N
Scale - 1: 100,000
1/23/2013
N
535000
540000
545000
550000
6845000
6840000
6835000
6830000
6825000
uPCV
ICG1
COR1
PCH
PCH3
Nahanni Range Road
POW
Kangas
Main
Confluence
Legend
Road
Camp
Mineral Occurrence
Tenure
Justin Tenure - Aben Resources
VF Tenure - Bearing Resources Option
Yukon Bedrock Geology (after Gordey and Makepeace, 2003)
COR1 - Rabbitkettle Formation
ICG1 - Gull Lake Formation
PCH - Hyland Group - Yusezyu Formation
uPCV - Vampire Formation
PCH3 - Hyland Group - Narchilla Formation
Folds
Anticline, Inferred
Contacts
Stratigraphic, approximate
Stratigraphic, assumed
Stratigraphic, defined
Stratigraphic, extrapolated
0 1 2 3 4 5
Kilometers



MID-CRETACEOUS

$_{M}K$ **Tungsten Suite** - Resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspasr) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite

UPPER CAMBRIAN AND ORDOVICIAN

COR_1 **Rabbitkettle** - thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff

LOWER CAMBRIAN

ICG_1 **Gull Lake** - 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

UPPER PROTEROZOIC TO LOWER CAMBRIAN

PCH **Hyland Group - Yusezyu Formation**- limestone; calcareous siltstone, shale, coarse turbiditic clastics

uPCV **Vampire Formation** - dark brown weathering, thin-bedded, argillaceous fine-grained sandstone and siltstone, minor interbedded medium- to coarse grained white to light grey orthoquartzite; phyllite, slate, and argillite

PCH_3 **Hyland Group - Narchilla Formation**- maroon and green weathering shale

Property Geology

(after Schulze, 1997; Gallagher, 2002; Hart, Zuran, van Randen, McCuaig, 2012)

Figures 4a and 4b are located in pockets following the property geology description

The property is underlain by a broad package of WNW trending NNE dipping Hyland Group sediments consisting of thick units of coarse clastic sediments inter-bedded with fine-grained phyllitic units and locally thin to thick bedded calcareous siltstones and limestones. The extreme northeastern areas of the property are underlain by a thick package of thin-bedded, tan-buff weathering limestone of the Rabbitkettle Formation. The proximity of these two very different tectonic elements results from their juxtaposition along the March Fault, which is recognized as a significant crustal-scale structural break that was active in the Proterozoic, the Paleozoic, and in the Cretaceous (Hart and Lewis, 2006). Hyland Group stratigraphy underlying the Justin Property has been intruded by a NNW trending structurally controlled Tombstone-Tungsten Suite biotite quartz monzonite pluton and a related suite of quartz-feldspar porphyry to aplite dykes.

Three distinct styles of mineralization are documented on the property. The styles are thought to be the direct reflection of a long lived, widespread mesothermal-epithermal mineralizing event occurring within permeable structures controlled by geology and polyphase brittle and brittle – ductile shearing.

Detailed geologic mapping has been completed across gridded areas of the Justin claim block primarily in the POW zone; limited reconnaissance mapping and prospecting has occurred elsewhere. The following is a brief description of lithologic map units observed on the property.

Lithologic Map Units

Intrusive Rocks

Igneous rocks on the Justin property consist of a medium-grained biotite monzonite to granodiorite pluton, quartz-feldspar porphyry (QFP) dykes, and mafic dykes.

The Justin property is for the most part underlain by horfelsed siliclastic rocks of the Hyland Group, that have undergone thermal metamorphism in response to their proximity to cooling felsic magmas that formed the pluton known as the Justin Stock. However the stock is only scantly exposed in comparison to the extensive hornfeling observed suggesting that there is a much larger buried pluton at depth. The exposed stock likely represents a cupola which has a dome-shaped geometry representing the uppermost and/or highest component of the magmatic body. The Justin stock is interpreted to be Cretaceous in age.

The plutonic rocks on the Justin property form magnetic lows amongst variably to highly magnetic country rocks, indicating that they lack a significant component of magnetite. The lack of magnetite is likely a result of the intrusives reduced primary oxidation state, and therefore the plutonic rocks can be characterized as reduced.

Igneous rocks are most extensively represented on the property by several thick (10-50 metre), north-trending QFP dykes. The pluton, the quartz-feldspar porphyry dykes, and the aplite dykes were all emplaced (respectively in that order) into a 3 km long, 1 km wide, north-trending magmatic corridor, controlled by the NNW trending Justin Fault. In addition to focusing the magmas, the Justin structural zone was also the focus of mineralizing fluid distributions. This structure remains open both to the south and the north.

Mafic dykes that are recognized on the property have a basaltic, locally vesicular character and composition. Phlogopite phenocrysts and xenocrysts of olivines and pyroxenes comprising the mafic dykes weather recessively, and therefore the dykes have limited exposure. The mafic dykes have been observed cross-cutting both Hyland Group and Rabbitkettle Formation strata, providing some time constraint on the date of emplacement. The origin of these dykes remains unknown.

Sedimentary Rocks

Sedimentary rocks of the Justin claims are comprised of two major formations: the Rabbitkettle Formation (COR) and the Yusezyu Formation of the Hyland Group (PCHy). The Rabbitkettle Formation is characterized by a sequence of thin to medium bedded white to buff weathering limestone (LST). This has been mapped in the extreme NE areas of the map area – northeast of the March Fault (Figure 4a). Field reconnaissance mapping during 2012 led to the discovery of trilobite fossils within Rabbitkettle strata. Further examination of the area is required to properly assess the significance of the discovery. The following lithologic units have been identified within the Yusezyu Formation of the Hyland Group: Limestone (LST); Phyllite (PHY); Argillite (ARG); Siltstone (SLT); Skarn (SKN); Sandstone (SST); Banded Skarn (SKN); Quartz Pebble Conglomerate (QPC) and Quartz Feldspar Pebble Conglomerate (QFPC). The Yusezyu formation can be separated into four distinct members on the Justin Property and are described as follows:

Limestone Member

The limestone member (LST) consists of thin to moderate sized, somewhat discontinuous units of impure thin to medium bedded limestone, often inter-bedded with, or grading into, fine-grained calcareous sediments. Limestone underlying the Justin claims has commonly undergone strong calc-silicate alteration and/or silicification, and hosts much of the mineralization on the claims. The calcareous siltstone (CST) is impure limestone with a significant fine clastic component or a finely inter-bedded sequence of limy and silty beds. This unit often has a banded appearance. The limestone member predominates at the POW zone where it occurs as calc-silicate and pyroxene+/-garnet skarn (Hart, 2012).

Fine-Grained Member

This member is comprised primarily of a weakly silicified calcareous package of phyllite (PHY) with small sub-units of argillite (ARG) within it. The phyllite consists of thick sequences of monotonous, fairly uniform fissile thin-bedded, fine-grained sediments. Weakly silicified calcareous phyllite, displaying some calc-silicate alteration underlies the central portion of the Justin claims. The argillitic rocks tend to be fine grained and fissile, with a slightly higher graphite content than the phyllite. The siltstone (SLT) unit is also interbedded within the broad phyllite unit and represents slightly more coarsely grained beds. The two units can be difficult to discern and are sometimes mapped as siltstone. The fine-grained fissile shale (ARG) occurs as a laterally-extensive, fairly thin unit in places displaying a strong deep green chloritic alteration. The unit's distinct colour makes it an excellent marker horizon across parts of the property. The fine grained sediments have undergone extensive hornfels alteration across the property, most notably observed in the cliffs comprising the Kangas zone.

Coarse Grained Clastic Member

The quartz pebble conglomerate (QPC) occurs as thick, poorly sorted, largely undifferentiated units across the property. The framework of the rock consists of 10 - 30% euhedral to subhedral feldspar and 25 - 60% rounded to subrounded quartz grains ranging in size from fine-grained to 20 mm in diameter. Minor mafic lithic fragments occur locally. The matrix consists of very fine grained quartz and minor feldspar within a calc-silicate cement, which has commonly been silicified following decalcification locally resulting in a chalcedonic texture. Across the property, variable amounts of silicification and selective argillic alteration of feldspar grains, has occurred. This unit was originally mapped as an altered intrusive assemblage. The quartz feldspar pebble conglomerate (QFPC) unit is similar to QPC except that it contains a higher concentration of feldspar clasts. Sandstone (SST) represents a more finely grained variant of the QPC and is often calcareous. The sandstone may represent a more distal submarine fan or stream sediment depositional setting to that forming the conglomerates (Gordey and Anderson, 1996).

Outlier Members

Lithologic mapping of rock units both on surface and drill core in the POW zone has identified a rock type previously not encountered on the Justin property. The western margin of the POW zone mapped to date is underlain by approximately 10 metre section of a heterolithic, graphitic fragmental package of rocks. The fragmental varies in colour from light grey to dark black and hosts a variety of lithic fragments which are angular and randomly oriented within a graphitic, pyrite rich clay matrix. At the time of writing it is unknown whether the lithologic unit represents a turbidite flow, or a fault zone. The graphitic matrix of the unit has been interpreted to be the source of a very large EM conductor identified in 2010 located on the western margin of the POW zone.

Structural Geology

The little Hyland River valley is underlain by deformed rocks that form part of the Selwyn fold belt; however, few faults and folds were indicated in previous mapping (Gordey and Makepeace 2003). Structural features described below are the result of distilling years of reconnaissance mapping, diamond drilling, geophysical data, or are extrapolated from those described to the north by Gordey and Anderson (1993).

In the area of the little Hyland river sedimentry rocks of the Hyland Group have a weak to moderate, northwest-trending, shallowly to moderately steep-dipping fabric that is defined by phyllitic partings, with mica development on foliation surfaces. The intensity of the phyllite development is variable and has a low intensity east of the little Hyland River valley. The fabric developed in response to deformation that transposed bedding through a series of northeast-verging overturned folds that are locally cut by thrust faults. Beds of conglomerate, grit, and quartzite are mostly undeformed, particularly where massive. The margins of coarse grained units are typically modified by minor faulting and shearing. Lineations observed in the area plunge shallowly to the south and southeast. The timing of regional deformation is uncertain but may be related to the emplacement of the mid-Cretaceous Hyland plutonic suite batholiths, which are similar in age to mid-Cretaceous deformation in the Tombstone strain zone near Mayo (Hart, 2012).

Two periods of compressional deformation are evident within the Yusezyu formation of the Hyland Group in the immediate vicinity of the Justin claim block. The first deformation event is represented by moderately dipping penetrative foliation in

the fine grained lithologies and recumbent and overturned folds dipping gently to moderately to the NE/SW. The second deformation event is represented by large-scale upright folds and a poorly developed axial planar cleavage, observed in the field as jointing within coarse clastic units. The axial planar cleavage strikes SE and dips steeply to the south. 3 kilometres west of the Kangas zone there are a prominent series of anticlines and synclines with wavelengths of 200 – 1000 metres which parallel the larger scale upright folds (Scott, 1999). Refer to Figure 4a for reference to the features described above.

Stratigraphy underlying the Justin claims generally strikes at about 290° and is variable from flat lying to moderately south dipping. However, at the POW zone, bedding measurements range from 260°- 290°, dipping moderately to the north-northwest from 30°- 55°. The variance in orientation of the beds at the POW zone reflect deformation in proximity to the March Fault and a doming effect related to the emplacement of the biotite quartz monzonite stock. Foliation directions are variable, commonly striking N-S with a sub-vertical dip near dykes and zones of structural deformation.

A NW-SE trending transcurrent fault zone (March Fault), characterized by a pronounced NW trending lineament, extends along the northeastern property boundary (Figure 4a). On the Justin property, the structure is moderately to steeply dipping to the east, where Hyland Group strata to the west are juxtaposed with Rabbitkettle carbonate units to the east (Hart, 2012). The inferred sub-parallel Dayo Creek Fault extends to the south of the property.

A well developed set of coeval extensional faults, trending at 325°-355°, are documented between the strike-slip faults described above. The orientation of these coeval faults, with respect to the fault system, is consistent with the interpreted right lateral displacement along the strike-slip fault zone, these faults are the primary control on the distribution of mineralization across the Justin property.

Development of the NNW trending dilation structures provided planes of weakness for emplacement of the mid-Cretaceous stock, porphyry dykes, and sheeted vein arrays. Other NNW trending structural features, including the prominent jointing direction and foliation along major strike-slip fault structures, are also interpreted to result from this extensional regime.

These NNW trending structural features are most prominent in the central area of the Justin claim block where they comprise a 2 kilometre wide structural and magmatic corridor. It is defined by faults, high levels of the intrusion, quartz-feldspar porphyry dykes, and extensional fractures, all variably infiltrated by quartz veins, skarns, and arrays of sheeted veins (Hart, 2012). These NNW trending structures will be referred to in future as the Justin Fault zone.

Surface mapping within the POW zone led to the discovery of lineations and slickenlines along fault scarps indicating right lateral movement along the NNW structures. The amount of displacement which occurred along these structures is unknown at the time of writing. Interpretations from aeromagnetic surveys and DDH JN12012 and JN12014 indicate that a major NNW structure lies approximately 30 metres east of the original POW zone showing. The NNW structure is steeply dipping and separates the Justin stock to the west, from fine grained siliclastic and carbonate rocks of the Hyland Group to the east. This observation leads to the conclusion that in at least one case, an unknown amount of right-lateral, normal displacement has occurred along the structure and may post-date emplacement of the Justin stock.

These north-trending structures play an integral role in controlling mineralization on both a property and district scale. The structures cross-cut the regional deformation described above, but are, in turn, cut by northeast-trending faults.

A conjugate shear set, less obvious than extensional faulting, trends NE-SW and E-W and underlies the property west of the Justin claims. The NE-SW trending structures are typically brittle faults while the coeval E-W trending structures are typically brittle-ductile shear zones. In the POW zone the E-W orientated structures are observed as discreet brittle-ductile shear zones which offset auriferous quartz veins and porphyry dykes on the centimetre to decimetre scale. Left lateral offset was observed consistently across the POW zone on the E-W orientated structures. At the time of writing it is believed that the small scale structures reflect a larger E-W flexure zone which post-dates emplacement of the Justin stock and coeval mineralization. The NE-SW trending fault set controls many of the minor drainages, as well as the NE trending joint set. NE trending minor faults are observed cross-cutting NNW trending dykes that intrude extensional zones associated with strike-slip deformation. This observation is consistent with the development of conjugate shear fabrics post-dating major mid-Cretaceous strike-slip motion.

Two major shearing events have resulted in two planes of structural fabric which are permeable to fluid migration. Intersection of the major NW and NNW shear fabrics within brittle lithologic units in proximity to the Justin stock is considered the favorable settings for economic mineralization on the Justin Property.

Mineralization

(after Schulze, 1997; Gallagher, 2002; McCuaig 2011 & 2012, Hart 2012)

Three styles of gold mineralization have been recognized on the Justin Claims. These varying styles of mineralization are thought to reflect a multi-phased, mesothermal to epithermal intrusion-related mineralization event occurring under different structural settings on the property. The different styles of mineralization include:

1) sheeted vein arrays, vein breccia, stockwork, and extensional fault controlled mineralization;

2) skarn replacement style mineralization;

3) a composite mineralization style, resulting in pervasive mineralization within coarse clastic sediments;

Where mineralization is structurally controlled, it appears to be controlled by the extensional fault system associated with mid-Cretaceous dextral strike-slip shear. These NNW trending dilational structures host Type 1 (sheeted vein arrays) mineralization and Type 2 (skarn occurrences) with the exception of the Kangas zone skarn (see below). The NW trending March Fault is host to auriferous quartz veining as identified in DDH JN11007 and JN11008. Although gold grades were sub-economic in both DDH intersections, vein densities were greatest in the hanging wall of the fault zone. North-east trending structures, associated with later conjugate shearing, also control some erratically distributed high-grade vein mineralization. Comparable gold values have been returned from both structurally controlled mineralization regimes; however gold distribution within the POW zone is preferential to the NNW trending extensional structures.

Alteration associated with these mineralized settings is a reflection of the physical and chemical characteristics of the original host rock. The major factors in controlling mineralization are: the permeability and reactivity of the host rock, proximity of the host rock to the Justin stock, and proximity to faults which act as fluid conduits. The limestone and calcareous members of the Yusezyu Formation situated proximal to the Justin stock are the most favorable known host for economic mineralization.

All three types of mineralization are, at the oldest, mid-Cretaceous in age. Skarn type replacement mineralization is interpreted to be coeval with, or slightly post-dating, the emplacement of the Justin stock into a 2 km wide, north trending extensional fault system. Vein mineralization is interpreted to be controlled primarily by mid-Cretaceous extensional faults although some vein mineralization is also clearly controlled by the younger conjugate shear system, suggesting that this style of mineralization may post date the mid-Cretaceous tectonic activity.

Mineralization Styles

Sheeted Veining

Quartz+/-calcite veining, breccia zones, and fracture controlled mineralization occur within several areas of the property. Typically, veins have strongly anomalous antimony, bismuth, tungsten, molybdenite, and arsenopyrite signatures. Quartz+/-calcite veining occurs within all lithologies, exhibiting varying textural characteristics depending on the host lithology. Within the coarse clastic units, veins tend to be narrow and fault controlled; however, mineralization can extend into the silicified host rock.

A sheeted vein system in the POW zone consists of millimetre to decimetre scale quartz+/-calcite veining occurring in densities of up to 50 veins/metre. The vein arrays exploit a NNW structural fabric which is best developed in calc-silicate altered Hyland Group sediments and within the biotite quartz monzonite.

Veins found in other areas of the property tend to be structurally controlled along all of the major lineation orientations, suggesting vein development post-dated major structural development. Narrow fault controlled veining returning up to 1.60 g/t Au occurs within phyllite and limestone strata. One exception is a 20 cm wide quartz-galena-arsenopyrite vein returning 15.80 g/t Au, located roughly 1.0 km E of the Main Skarn.

Dykes within the Justin claims locally contain fine sheeted quartz vein hosted mineralization, largely along contact zones where brittle fracturing has occurred. The porphyritic dyke situated along the west boundary of the Main zone has undergone brittle fracturing and subsequent chalcedonic veining. Sampling has returned values up to 5.70 g/t Au over 1.00 m underlying the western part of Trench SN97-2, which returned 2.30 g/t Au over 22.50m. However, sampling to date of dyke material in the Main zone and POW zone both in surface outcrop and diamond drill core has returned weakly anomalous to background gold values.

Skarn

The limestone and calcareous silty units (Limestone Member) underlying the Justin claims have undergone typical skarn type mineral development, consisting of decalcification, silicification, calc-silicate, and sulphide-oxide mineral

development. Recent exploration efforts in 2010, 2011, and 2012 have identified a new zone of skarn, which has been named the POW zone.

Two major skarn zones occur within the Justin claims: the Main zone and the POW zone (Figure 4a); in the Kangas zone, several smaller zones of skarn alteration occur along the north flank of the central ridge. Gold mineralization on the property is typically associated strongly with bismuth, iron, antimony, and moderately with copper and tungsten. The POW zone skarn is a complex exoskarn, characterized by prograde coarse grained hydrogrossular garnet- clinopyroxene-quartz which has been overprinted by intense clay and Fe-carbonate retrograde alteration. Replacement style massive magnetite, with lesser disseminated pyrrhotite, chalcopyrite, pyrite, molybdenite+/- scheelite +/- bismuth +/- gold characterize the POW zone skarn. Veining within the skarn hosts arsenopyrite, pyrrhotite, pyrite, hematite, chalcopyrite, native bismuth, bisumthinite, jamesonite, sphalerite, molybdenite, scheelite and gold in a quartz-calcite gangue. The veining observed at the POW zone is interpreted to represent a later phase of mineralization within the system. Gold mineralization is developed in both the skarn replacement and sheeted vein styles of mineralization.

All skarn occurrences on the Justin property are interpreted to be associated with the Justin stock. Gold grades are highest where the NNW structures intersect skarn altered lithologies in proximity to the Justin stock. The POW zone occurs within the contact aureole of the Justin stock, which extends to at minimum 200 metres laterally from the margin of the intrusion.

Composite

The coarse clastic sediments provide an excellent setting for hydrothermal mineralization. These thick, uniform units are permeable due to coarse fragment size, fairly reactive due to the calcareous nature of much of the original matrix cement, and prone to semi-brittle fracturing as shown by the presence of several fault and quartz stockwork zones, particularly along lithologic contacts. These broad mineralized zones have the potential to host bulk tonnage gold deposits within the property.

Weak to moderate pervasive silicification, but very limited argillic alteration has occurred in the Confluence zone area. A broad zone of chalcedonic veining within coarse clastic sediments is centered at the confluence of Sun and South Sun Creeks within the eastern part of the Justin claims (Figure 4). The veined interval occurs at a thrust fault contact between coarse clastic sediments and fine grained, thin bedded limestone. These fracture controlled veins range in size from nearly microscopic to 2.0m in width and return gold values from 0.42 g/t Au to 7.00 g/t Au over l.00 m with a value of 4.24 g/t Au over 4.50m returned from Trench SN97-3 (Schulze, 1997). These veins overprint localized quartz-pyrite veining and appear to be the primary gold host. Gold values from JN11007 and JN11008 have an association with As and Sb. Mineralization was observed as multi-phase quartz veining within the coarse clastic sediments, where pyrite is partially replaced by a later phase of fine grained arsenopyrite+/-sphalerite+/-galena.

Characteristics of Mineralized zones

The four zones of significant mineralization in order of importance are: 1) POW zone 2) Main zone, 3) Confluence zone, and 4) Kangas zone.

POW zone:

The POW zone hosts several different episodes of mineralization, which are listed below.

1. Magnetite in pyroxene+/-garnet skarn;
2. Scheelite mineralization as disseminated crystals and thin veins within skarned rocks and scheelite in sheeted quartz veins;
3. Fracture controlled pyrrhotite+/-chalcopyrite overprinting skarn;
4. Bismuthinite+/- gold overprinting skarn;
5. Sheeted quartz veins with bismuthinite, native bismuth, gold, and scheelite +/- molybdenite;
6. Quartz-arsenopyrite +/- bismuthinite +/- sulphosalts (jamesonite) veins;
7. Sheeted sulphide veins and fractures, parallel with sheeted quartz veins;
8. Late sulphite, including marcasitic pyrite with grey silica replacements, and sulphidation of magnetite from skarns.

Diverse mineralization is a characteristic of intrusion-related systems. There is confidence that gold is associated with at least three of these mineralization styles, most specifically numbers 4, 5, and 6.

The POW zone represents an array of sheeted auriferous quartz veins, skarns, and sulphide replacement mineralization that are located within and above a cupola of the Justin stock.

Main zone

The Main zone, located in the central Justin claims was first discovered in 1964. Four holes were drilled at the main zone in 1987 to test copper-gold skarn mineralization. The program yielded only sub-economic assay values resulting in the original Sun claims being allowed to lapse. However, in 1996 exploration by Hemlo showed that a fractured, resilicified, and auriferous quartz monzonite dyke bounds the zone to the west. Successive exploration programs showed that a significantly mineralized zone extends east from roughly 6.00 m within the dyke into strongly pyritic and pyrrhotitic limestone and calcareous phyllite. Calc-silicate mineralization consists of fine grained pervasive to fracture controlled actinolite and diopside, with minor chlorite. Trench SN97-2 extending across this zone returned 2.38g/t Au over 22.50 m, and anomalous values continued to the east into the previously tested mineralization (Schulze, 1997). It appears that most of the Main zone consists of low grade peripheral mineralization, and that a significant mineralized zone occurs along the western margin and may extend northward along the dyke. Schulze, 1997 concluded that mineralization was emplaced from fluids traveling from the structural corridor controlling the dyke into decalcified strata within the flat lying limestone.

Trench SN97- 1, excavated roughly 20 m south of SN97-2, returned low gold values within strongly pyritic and pyrrhotitic skarn mineralization. Its spatial relationship to SN97-2 remains unknown; Sun Creek, which flows between the two trenches, may occupy a structural corridor.

Drilling efforts in 2011 at the Main zone returned anomalous gold and copper values from calc-silicate skarn, and quartz-sulphide veinlets confirming historic results. Although no significant gold intersections were returned from the three holes valuable geologic information was gleamed providing insight into the geologic history of the property. Significant intersections of porphyritic felsite and quartz biotite monzonite dyke material were intercepted in all three holes. The overall true thickness of the dike swarm has not been determined but drilling to date indicates it is greater than 50 meters. As dikes are derived from a parent magmatic source, the size of the porphyritic dikes and their wide spatial distribution suggests that a larger parent pluton lies beneath the Justin property.

Confluence zone

The Confluence zone is a broad zone measuring at least 600m x 250m in area and consists of coarse clastic material with considerable fracture controlled chalcedonic veining. It is centered at the confluence of Sun and South Sun Creeks (Figure 4a). Veins are typically sulphide poor and range in size from nearly microscopic to up to 2.00 m in width. Gold values range from 0.42 to 7.00 g/t Au over 1.50 m (Schulze, 1997). Trench SN97-3 returned 4.24 g/t Au over 4.50 m and is open to the west; continuous channel sampling east of this intersection returned elevated values up to 0.64 g/t Au. Significant gold values were returned from sampling throughout the occurrence, including proximal glacial float from the western end of known mineralization. This suggests the source rock occurs up-ice further west, expanding the potential size of the showing. Fracture controlled and disseminated pyrite is abundant in the surrounding wall rock. Most elevated gold values are associated with chalcedonic veining, which locally crosscut quartz-pyrite veining. This suggests mineralization resulted from late phases of hydrothermal activity.

Drilling at the Confluence zone in 2011 successfully intercepted auriferous chalcedonic quartz veins representing the down-dip extension of the zone sampled in Trench SN97-3. Drill core analysis returned values to 5.60 m grading 0.76 g/t Au in JN11008. An auriferous vein-breccia system hosted in decalcified limestone within the March Fault zone was also intercepted in both JN11007 and JN11008. The fault-controlled zone returned 9.40 m grading 0.76 g/t Au in JN11007 and 11.00 m grading 0.56 g/t Au, including 4.60 m of 1.15 g/t Au in JN11008. The 2011 drilling was the first program to test the regional structure; results indicate that it may be an important structural control for localizing gold mineralization on the Justin property. The confluence zone is interpreted to be a distal expression of the intrusion-related gold system associated with the Justin Stock based upon mineralogy and element geochemistry observed in mineralized vein systems.

Kangas zone

The Kangas zone is a N-S orientated zone of skarn and replacement style mineralization within siltstone, calcareous siltstone, and minor limestone located along the north flank of the central ridge of the Justin claims. Mineralization consists of fracture controlled and replacement style semi-massive pyrrhotite, arsenopyrite, and local pyrite, with minor disseminated chalcopyrite, along with fine grained diopside and actinolite.

Replacement style arsenopyrite is abundant, as well as fracture-controlled arsenopyrite and quartz-arsenopyrite veining. Values up to 1.6 g/t Au over 1.50 m and 1.2 g/t Au over 1.00 m were returned from replacement style arsenopyrite horizons (Schulze, 1997). Quartz-arsenopyrite veining returned elevated gold values, although pyrrhotitic horizons returned low values. Host stratigraphy strikes roughly ESE and dips gently to the south although this may become disrupted near the March Fault.

Mineralization has been traced along a 400 m x 75 m N-S orientated zone, grading into altered weakly calcareous phyllite to the east. Elevated soil (talus fine) values to 805 ppb extend along strike uphill to the south. An occurrence discovered by

Viceroy in 1997 of similar skarn mineralization returning 1.26 g/t Au over 1.50 m outcrops nearby to the west, suggesting the zone may be wider than 75 metres.

The Kangas zone is roughly along strike of the NNW trending lineation controlling the Main Skarn mineralization. The Kangas zone may be quite thick, with somewhat discontinuous mineralization occurring across at least 150m of true width. It stratigraphically overlies an interpreted northward extension of stratigraphy hosting the Main Skarn. However, it is close enough that similarly reactive stratigraphy within both zones were affected by a single mineralizing event. The two zones may represent exposures of a significantly thick zone of skarn and replacement style mineralization controlled by the NNW trending Justin Fault, within the broad N-S structural zone outlined on Figure 4a.

Drilling in 2011 on the Kangas zone provided insight into the true extent and nature of the mineralization. Three holes were drilled into the Kangas zone. All three of the holes intersected calc-silicate altered siltstone and thin bedded limestone within the top 20 metres of drilling.

Below the horizon of calc-silicate alteration occurring in JN11001 and JN11002, an interval of core loss and a significant change in rock type occurs. No calc-silicate replacement alteration was encountered, and a generally uniform sequence of unaltered, fine grained, thin bedded siltstone occurs. The lack of correlation between surface exposure and the drill core samples suggests that the surface exposure may not be in place, or that a significant fault zone is present displacing strata. When examining local topographic features, it seems plausible that the rocks observed at the Kangas zone have slumped down from the top of the ridge, either through faulting (along an E-W trending break) or mass wasting, and now forms the top of a large talus slope conforming to the angle of repose which extends to valley bottom. A topographic low observable from a distance as a saddle along the ridgeline is located directly up-slope of the Kangas zone, which occurs approximately 200 metres down slope. Previous mapping and anomalies outlined by soil geochemical surveys suggest that an extension of Kangas zone mineralization can be found on the ridgeline. Further investigation of this zone should focus on the ridgeline and cliffs to the east where bedrock exposure is excellent.

Mineralization Overview

Gold mineralization on the property is directly related to bismuth. It is believed that gold is mobilized in hydrothermal systems as a bismuth (+/- Te +/- Sb) complex and deposited in veins as high temperature Au-Bi-S alloys. As the hydrothermal system cooled, the gold exolved from the alloy, leaving bismuthinite and native gold as observed in Plate 1. For this reason gold has a direct and observable association with Bi, therefore the presence of Bi can be utilized as a confident indicator for a potential increase of gold grade.

Plate 1: Photomicrograph of the Au-Bi relationship



The Au-Bi association is most directly related in intrusion-related and intrusion-hosted ores, adding further credence to support an intrusion-related gold system on the Justin property. The Au-Bi correlation, strongly controlled by temperature gradient, is indicative of close proximity to the Justin stock. Hydrothermal fluids migrating outward from the intrusion decrease in temperature and have greater interaction with the country rocks enriching them in scavenged metals. In intrusion related gold deposits a predictable zonation of metals is often observed moving outward from the intrusion and is the directly result of a decrease in temperature gradient and the interaction of the fluids with country rock (Hart, 2012). This zonation is typically observed as veins with greater amounts of arsenopyrite, sphalerite, and other sulphide/sulfosalt

minerals as you move outward from the intrusion. In these situations, the importance of Bi may be reduced, and Au may have a stronger association with As, or Sb as observed in the Kangas, and Confluence zones respectively. Applying Hart's model of metal zonation to the Justin property may allow for the successful vectoring from distal Au-As-Sb mineralization to proximal Au+/-Bi+/-Cu+/-W mineralization adjacent to and within the Justin Stock.

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Justin Project
Figure 4a - Property Geology Map

Projection - NAD 83 UTM Zone 9N
Scale - 1: 15,000
1/23/2013

N

POW
Kangas
Main
Confluence

March Fault
Justin Fault - Approximate

Rapid Creek
Sun Creek
South Sun Creek

PCH
PCH3
ICG1
COR1

Legend

Mineral Occurrence

Tenure
- Justin Tenure - Aben Resources

Yukon Bedrock Geology
- mKqfp - Quartz-Feldspar Porphyry
- mK - Tungsten Suite - Granodiorite
- COR1 - Rabbitkettle Formation
- ICG1 - Gull Lake Formation
- PCH - Hyland Group - Yusezyu Formation
- PCH3 - Hyland Group - Narchilla Formation

Structure
- Bedding
- Fault Plane
- Fold
- Shear Zone

Folds
- Anticline, Inferred

Contacts
- Stratigraphic, approximate

(Geology after Gordey and Makepeace, 2003; Schulze, McCuaig, 2011; Zuran, 2012)

0 500 1,000 1,500 2,000 Meters

541000 542000 543000 544000 545000 546000 547000 548000 549000 550000 551000 552000

6842000 6841000 6840000 6839000 6838000 6837000 6836000 6835000 6834000

ABN:TSX-V

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Justin Project
Figure 4b - POW Zone Geology Map
Projection - NAD 83 UTM Zone 9N
Scale - 1-1,000
11/30/2012

546100 546200 546300 546400 546500 546600 546700 546800 546900 547000

6637700 6637600 6637500 6637400 6637300 6637200 6637100 6637000 6636900

POW Zone

Justin Fault

QFP
cgr SST
Qz Fd CGL
Qz CGL
SST
fgr SST
GRT/SST
w skn SST
skn SLT
sil SLT
Qz Fd peb CGL
GRT (QTE)
mixed SLT-GRT
mixed
ban SKN
metre scale ban SKN
lt bg
deep rd bn
Py + Mb
silica-flooded Qz vn BXA tr-7% fgr Sx (Py+As)
bxa Qz vn tr fgr Sx (Py) Ll on fractures
silica flooded cly alt 20% local fgr Py (As?)
Qz peb CGL
Qz GRT/CGL shear band
Qz GRT
Bl GRD unaltered
tr Mb
trough
Qz-Fd CGL
Qz-Fd GRT/CGL
SHL
Qz pod
sheeted Qz vns
Qz peb CGL
Ac-Ga SKN
sil SKN
SKN
sil skn SLT
ban SKN
silt (arg-sil) QFP
mas LST
(PHY) SLT
Bi GRD
QFP
Bi GRD unaltered metre size blocks
2.5m blocks of unaltered Bl GRD
metre scale SKN boulders
1/2-3/4m SKN boulders
Bi GRD unaltered metre size blocks

Legend

Geology

Structural Symbology

- Bedding
- Contact - Assumed
- Fault - Assumed
- Fracture - number/meter
- Mineralized Vein
- Rubblecrop
- Slickenline
- Vein

Intrusive Rocks

CRETACEOUS

- Biotite Granodiorite
- Quartz-Feldspar Porphyry

Sedimentary Rocks

PRECAMBRIAN

- Hyland Group - Skarn
- Hyland Group - Undifferentiated Siliclastics and Calcareous Strata

(Geology after Zuran, 2012)

0 100 200 300 400 Meters

2012 Exploration Program

The 2012 exploration program consisted of 95 field days with a crew ranging in size from 12 – 20 persons. The crew mobilized to a camp constructed at km 143 of the Nahanni Range Road, approximately 12 km to the west of the POW zone.

The primary objective of the program was to determine the potential for an economic gold deposit at the POW zone. The program included geological mapping, ground based geophysics, geochemical surveying, and diamond drilling.

Driftwood Diamond Drilling of Smithers, BC was contracted to drill 1,528 metres of NQ sized core and 466 metres of HQ sized core totalling 1994 metres using a heli-portable drill. Access to the property from camp was helicopter supported. Fireweed Helicopters of Whitehorse, YT was contracted to provide a Bell Long Ranger 3 and at times a Bell Long Ranger 4 which mobilized the drill crew, field crews, and all supplies into and out of the exploration area of the property. All core logging activities were done on the Justin Property at the base camp. All drill core samples have been stored on site at the base camp location (Nad 83 zone 9N E537916 , N6847550).

Total expenditures on the Justin property in 2012 were $142,002.50.

A small concurrent recce program was also conducted on the neighbouring VF property consisting of prospecting and geochemical sampling.

Total expenditures on the VF property in 2012 were $14,400.00.

2012 Exploration Results

Geological Mapping

(after Hart, Zuran, van Randen, McCuaig, 2012)

Exploration in 2012 focused on the northern portion of the property, undertaken as follow up to the 2010-2011 discovery of auriferous skarn and sheeted quartz vein arrays, and included detailed mapping of the POW zone at a scale of 1:1000. Mapping at the POW zone area confirmed that the zone is underlain by sediments of the Yusezyu Formation of the Hyland Group. Quartz pebble conglomerate (QPC), siltstone (SLT) grading into sandstone (SST), skarn and banded skarn (SKN), biotite granodiorite (GRD) comprising the stock, and quartz monzonite (QMZ) to quartz-feldspar porphyry (QFP) dikes are the primary lithologies occurring in the POW zone.

The interbedded sediments form a package of rock which strike approximately east-west, and dip moderately to the north at 30 – 50 degrees. The north dipping nature of the sediments is thought to be related to doming during the emplacement of the granodiorite stock. It is not clear at the time of writing whether the March Fault plays a role in the structural geometry observed at the POW zone. The POW zone is cross cut by at least three major NNW trending structures over 400 + metres, which comprise the known northern extent of the Justin Fault. These features have been mapped on surface, in drill core, and extensions have been interpreted from property scale geophysical surveys. The Justin fault is more prominent in the central area of the Justin claim block where it comprises a 2 kilometres wide structural and magmatic corridor. In the POW zone, the north trending extensional architecture has played an integral role in developing permeability within lithologic units allowing for the emanation of metalliferous hydrothermal fluids from the Justin stock.

The geothermal gradient associated with the emplacement of the Justin stock has variably altered the adjacent Yusezyu formation strata throughout the Justin property. The POW zone lies within the contact aureole of the Justin stock and has undergone intense contact metamorphism manifesting as both contact skarn and broad zones of hornfelsing. Of particular interest to the economic geology of the POW zone is a stratabound calc-silicate – garnet exoskarn, which has an average thickness of approximately 20 metres and has been traced along strike for approximately 450 metres. The skarn is comprised of pyroxene-grossular garnet-tremolite-quartz-epidote-magnetite and in places has undergone partial to complete iron-carbonate and clay retrograde alteration. The skarn is the primary host for auriferous massive sulphide replacement, auriferous sheeted quartz vein arrays, and disseminated scheelite, which is a calcium tungstate mineral and the primary ore forming mineral at the Cantung deposit located 30 km to the north.

The skarn is bound on both it's upper and lower contacts by hornfels, intensely silicified quartz pebble conglomerate and lesser siltstone. The hornfels has acted as a capping mechanism, restricting and allowing subsequent enrichment of the skarn by focusing fluid flow through the permeable horizon. The upper zone of hornfels is then in turn capped by an interbedded sequence of quartz pebble conglomerate, siltstone, and banded skarn. The latter forms a distinct marker unit which has been very useful in determining stratigraphic correlations within the POW zone stratigraphy.

The strata at the POW zone has been cross-cut by several quartz-feldspar porphyry dykes. Emplacement of these hypabyssal rocks occurred along the same N-S trending structural features which comprise the Justin fault system. The dykes are in turn cross-cut by the auriferous sheeted vein arrays, providing some time constrains on the emplacement of the stock, related dykes, and at least one of the mineralizing events.

The POW zone consists of a wide range of mineralization styles representing the diversity of intrusion related systems including a calc-silicate skarn system, as well as stockwork and sheeted quartz-calcite veining. Both styles of mineralization can host an array of metals including: arsenopyrite, pyrite, molybdenite, sphalerite, galena, native bismuth, bismuthinite, sulfosalts, chalcopyrite, pyrrhotite, sphalerite, gold-bismuth alloys, and most importantly native gold. As mentioned above, mineralization is best developed within the calc-silicate skarn; the best gold grades observed to date have come from structurally controlled zones within the skarn. The intersection of N-S trending structural zones with the calc-silicate skarn has created at least one "ore-shoot" type geometry which has a NNW orientation, plunging approximately 32 degrees. The zone is marked by massive magnetite+/-chalcopyrite+/-pyrrhotite skarn, silica flooding and associated sulphide replacement, and sheeted quartz vein arrays with densities ranging from 20-50 mm scale veins per metres. This zone was the primary target evaluated by diamond drilling during the 2012 program.

An important note to be discussed is the discovery of auriferous sheeted quartz veins hosted within the granodiorite stock. In other Intrusion Related Gold Deposits such as Ft. Knox, AK and the Eagle Deposit, YT, the gold ore occurs within structurally influenced zones within the cupola of the intrusion. More specifically, well developed sheeted quartz vein arrays host native gold and gold alloys within the intrusion which comprise these deposits. At the POW zone the cupola of the intrusion is partially exposed, which in turn hosts auriferous quartz veins which exploit the extensional N-S architecture of the Justin fault. Although rigorous sampling of the sheeted veins and stock in drill core did not return economic intervals of gold mineralization, several veined intervals containing visible gold and bismuthinite were observed in drill core and surface samples which returned highly anomalous gold concentrations. This discovery is considered to be significant, as it confirms for the first time that the Justin property has all of the components which comprise an intrusion related gold deposit. Further exploration efforts are warranted to follow-up the potential for an economic gold deposit within the cupola of the Justin stock.

Geochemical Surveys

Rock Sampling

Figure 11a is located in a pocket at the end of geochemical surveys

Rock sampling in 2012 focused on follow-up of known mineralized occurrences primarily in the POW zone, but did include property scale prospecting as well. Sampling was also completed during property scale mapping and prospecting traverses on both the Justin and VF properties. A total of 81 rock samples were taken during the 2012 exploration program (Refer to Figures 11a and 11b). Refer to Appendix 5.1 and Appendix 7.3 respectively for complete analytical results and sample locations/descriptions.

A summary of the rock sample highlights are as follows:

POW zone:

Chip Samples:

- LJJNR002 returned 2.00 m grading 4.74 g/t Au
- LJJNR006 returned 2.00 m grading 0.43 g/t Au
- RZJNR006 returned 0.09 m grading 0.30 g/t Au
- RZJNR016 returned 0.10 m grading 4.6 g/t Au

Grab Samples:

- JVJNR001 returned 1.90 g/t Au
- MMJNR036 returned 3.66 g/t Au
- MMJNR038 returned 0.37 g/t Au
- MMJNR039 returned 0.54 g/t Au
- MMJNR041 returned 22.2 g/t Au

Float Samples:

- MMJNR040 returned 1.00 g/t Au
- MMJNR042 returned 0.45 g/t Au

The rock samples collected in 2012 expand on the documented historic results. There are a total of 11 samples that assay greater than 0.3 g/t Au, in a variety of mineralization styles, including skarn replacement and sheeted vein arrays. The expansion of the known extents of the POW zone and consistent grade of gold mineralization suggests that the POW zone has the potential to host an economic deposit.

Magneto:

Chip Samples:

- JVJNR004 returned 1.10 m grading 0.20 g/t Au
- JVJNR005 returned 1.00 m grading 0.14 g/t Au
- JVJNR006 returned 1.00 m grading 0.15 g/t Au
- JVJNR008 returned 0.70 m grading 0.14 g/t Au

The rock samples collected in 2012 were taken to confirm historic assay results. The "Magneto" showing is located south of the POW zone and is comprised of magnetite +/- chalcopyrite +/- pyrrhotite skarn which is in contact with a quartz feldspar porphyry dyke. The showing was aptly named after it's strong magnetic properties associated with the magnetite skarn. Although the chip samples returned weakly anomalous gold values, the style of mineralization and pathfinder element geochemistry is similar in nature to that observed within the POW zone. All of the samples indicate elevated concentrations of bismuth, copper, and iron in association with the elevated gold values. Further work is required to fully asses the economic potential of the Magento showing.

Big Swifty:

Chip Samples:

- RZJNR018 returned 2.50 m grading 0.03 g/t Au
- RZJNR019 returned 1.00 m grading 0.09 g/t Au
- RZJNR020 returned 1.25 m grading 0.14 g/t Au

The "Big Swifty" represents a new showing discovered in 2012 during property scale mapping and prospecting. The showing outcrops over 10 metres along the northern margin of a stream bed located in the southeastern portion of the Justin claims (Figure 11a). Altered quartz-feldspar pebble conglomerate and shear hosted quartz-pyrite veins occur across the 10 metres wide outcrop. The quartz-pyrite mineralization is hosted in N-S trending structures which dip steeply to the east at 76 degrees. Although gold values are weak in the samples collected, the overall structural control on the mineralization is consistent with that observed at the Main, Kangas, and POW zones. Furthermore, elevated Sb, a known pathfinder for Au on the property, occurred in samples RZJNR019 and RZJNR020. Mineralization hosted in the quartz veins was non-magnetic. Further work is required to evaluate the Big Swifty showing.

VF Property:

No significant geochemical samples were obtained during the brief 2012 recce program on the VF property. Further work will be needed to properly assess the economic potential of this property. Refer to Figure 11b.

Soil Sampling

A total of 450 conventional soil samples were collected on the Justin and VF properties during the 2012 program. The goal of the geochemical program was to extend the soil grid to the north of the POW zone and conduct reconnaissance ridge and spur sampling on other portions of the property. A "Super-Trace Gold" (0.1 ppb Au) detection analytical package was selected to provide higher resolution gold-in-soil values. Refer to Appendix 5.3 and Appendix 7.1-7.2 respectively for complete analytical results and sample locations/descriptions.

JNL016, a 4 km ridge and spur soil line returned the strongest gold in soil anomaly documented on the Justin Property to date. Two samples over a 250 metres portion of the line returned gold values of 220 and 290 ppb Au, one sample returning > 18 ppb Au, and one sample > 10 ppb Au. The soil samples are thought to be coincident with the extension of the N-S

structural zone extending from the POW zone through the Main zone. Another note of interest is that there is a limestone package outcropping east of the anomaly, thought to represent the Algae Lake Formation (Personal communication, Moynihan 2012). A dirt sample (RZJND011) was taken from the base of the limestone unit which returned 73 ppb Au along with elevated concentrations of aersnic, antimony, bismuth, thallium, and tungsten. This area is considered to to be a high priority target for follow up geochemical and geological surveys.

Other spot anomalies on the property were detected. Of interest was a 95 ppb Au sample collected on line JNL017, approximately 1.0 km west of the POW zone. The soil sample is coincident with a magnetic high signature, which may represent a continuation of skarn style mineralization similar to that observed within the POW zone. Trenching is recommended to follow up this gold in soil anomaly.

A weak gold in soil anomaly was detected in both lines JNL021 and JNL019. The mini grid incorporating JNL019-021 was designed to cover a bismuth in soil anomaly observed in a historic soil line from the 1990's. The confirmation of historic bismuth results coincident with a moderate gold in soil anomaly discovered in 2012 suggests that a bedrock source may be locally present. Prospecting and trenching may prove useful in discovering the source of the anomaly. Of interest is the position of the anomaly with respect to the inferred location of the March Fault. The anomaly may represent local enrichment of the fault and should be investigated further.

A total of 10 pre-field man-days were spent digitizing historic soil geochemical surveys for both the Justin and VF properties. The historic data has been incorporated into the Justin Property geochemical model and will be used to refine targets in future exploration programs.

VF Property:

No significant geochemical samples were obtained during the brief 2012 recce program on the VF property. Further work will be needed to property assess the economic potential of this property.

Silt Sampling

A total of 31 silt samples were collected on the Justin and VF properties during the 2012 program. The goal of the silting program was to quickly asses the potential for gold anomalies in drainages not sampled during previous exploration programs. Of the 31 silt samples, 1 silt sample RZJNS001 returned an anomalous Au value of 24 ppb and elevated values of As, Bi, Cu, Pb, and W. The sample was obtained from a small tributary draining north from the POW zone.

Although silt geochemistry did not return significant gold values during the 2012 program, it is still felt to be a valuable tool for exploration on the Justin property. Future work should include increased sample density on all tributaries that were sampled for the first time in 2012.

Regional silting east of the Justin claim block may yield undiscovered anomalies, an area yet to be sampled by government regional geochemical surveys. Following up on tungsten showings explored through the 60's and 70's will provide guidance in the selective targeting of drainages in this area.

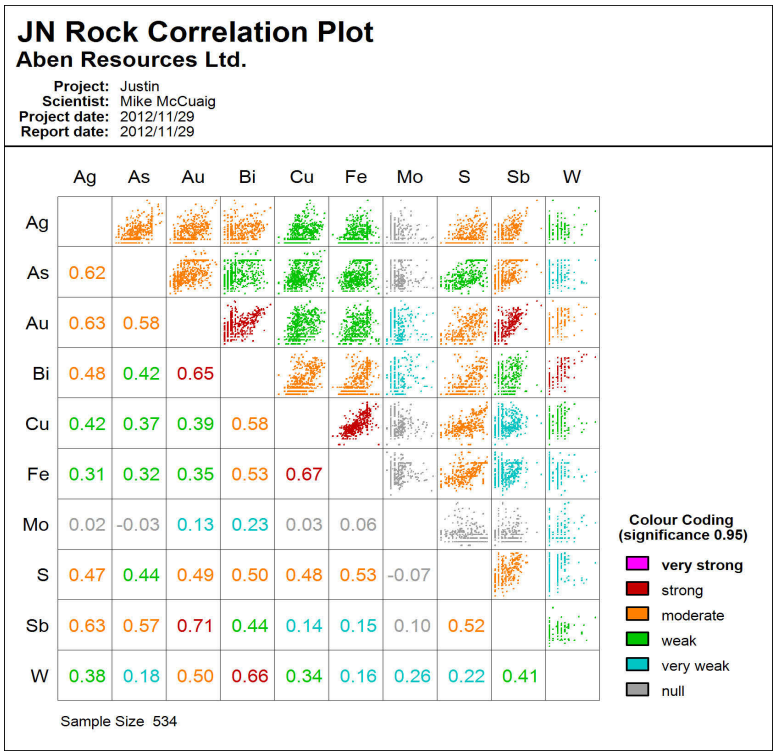
Geochemical Statistics

The following tables and figures highlight the elemental correlations for rock, soil, and silt samples derived from the Justin geochemical database. The data is inclusive of all samples collected to date on the Justin property. Historic data collected prior to 2001 has been imported into the Justin geochemical database for the following suite of elements which are used as pathfinders for gold mineralization. These elements include: Ag, As, Au, Bi, Cu, Fe, Hg, Mo, Pb, Sb, W, and Zn. Not all of the historic assay results could be located for samples collected on the Justin property, and as a result, there are discrepancies in the total number of samples collected for each element.

Table 3: Rock sample geochemical statistics

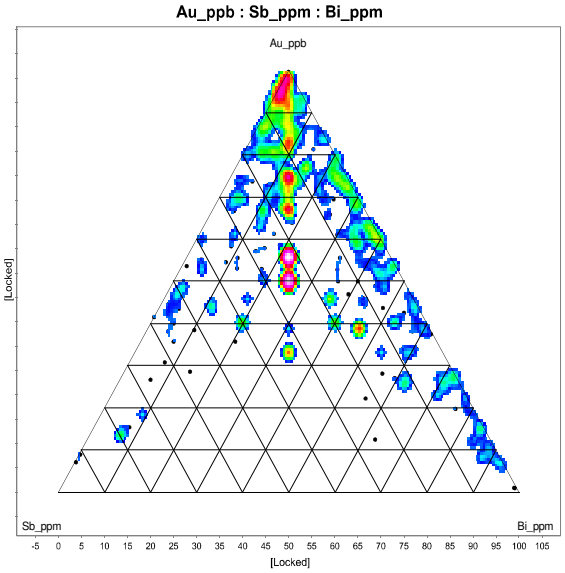
	Au ppb	Ag ppm	As ppm	Bi ppm	Cu ppm	Fe %	Mo ppm	Sb ppm	S %	W ppm
Count Numeric	539	534	534	534	534	434	353	434	323	353
Count Text	0	0	0	0	0	0	0	0	0	0
Count Null	7	12	12	12	12	112	193	112	223	193
Count Negative	0	0	0	0	0	0	0	0	0	0
Count Zero	0	0	0	0	0	0	0	0	0	0
Unique Values	208	115	243	144	276	332	64	71	203	18
Minimum	1	0.1	0.5	0.5	0.25	0.13	0.25	0.5	0.0025	0.5
Maximum	20590	362.1	177179	8090	8269	42.5	868	10000	10	3690
Median	29	0.5	81	3	26	2.655	1	2.5	0.23	1
Geometric Mean	38.79	0.61	115.83	7.97	38.71	2.81	1.53	4.76	0.21	1.48
Standard Deviation	1434.30	21.04	12754.59	518.86	789.79	5.93	65.45	514.92	1.88	201.41
Interquartile Range	225	1.525	699	33.25	166.25	5.79	2.5	15	1.06	2
Range	20589	362	177178.5	8089.5	8268.75	42.37	867.75	9999.5	9.9975	3689.5
50 percentile	29	0.5	81	3	26	2.655	1	2.5	0.23	1
75 percentile	230	1.725	714	35	175.25	7.0225	3	16	1.11	2.5
90 percentile	1200	4.75	10000	326	785.5	10.05	10.6	56	3.482	5
95 percentile	2360	15.4	10000	705.5	1432.5	14.8475	30	86.25	5	11.5
99 percentile	5624	77.415	70574.25	2173.75	4428.05	36.085	285.14	413.45	9.9208	329.8

Figure 5 – Rock sample correlation plot



The rock sample correlation data set displayed in Figure 5 displays a strong correlation between gold (Au) - antimony (Sb) and gold(Au) – bismuth(Bi). The strong correlation between Au-Sb-Bi is consistent with the intrusion related gold model, where gold is transported as Au-Bi-Sb+/-Te-S alloys (Hart, 2012). Strong correlations are also observed between copper(Cu) – iron(Fe) and bismuth(Bi) – tungsten(W). Elemental enrichment in Cu, Fe, and W is common in contact skarns associated with intrusion related gold systems, adding further evidence to support the presence of an intrusion related gold system on the Justin property.

Figure 6 – Ternary plot displaying the relationship between Au-Bi-Sb for rock samples



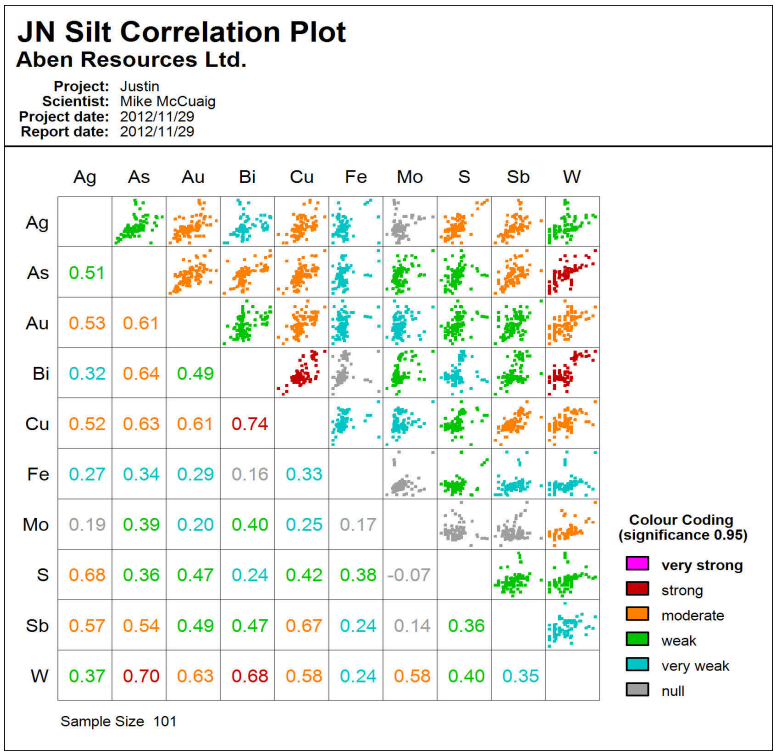
The ternary plot is used to visualize the relationship and various populations which exist between Au-Sb-Bi. Three weakly formed populations can be seen on the diagram above. One bright red cluster at the top of the diagram reflects the Au-Sb

population, where as the Au-Bi is represented by two discreet green clusters on the upper right of the diagram and a small blue cluster in the lower right hand corner. The two different Au-Bi populations indicate the relationship between the two elements varies, likely the response of a continuum of mineralization styles associated with the system. Au-Sb appears to have a more stable relationship, with all of the values plotting in a tight cluster suggesting it occurs as a single mineral phase.

Table 4: Silt sample geochemical statistics

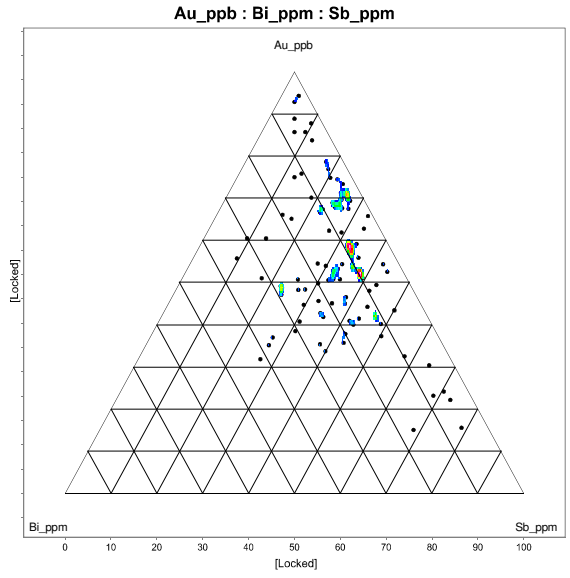
	Au ppb	Ag ppm	As ppm	Bi ppm	Cu ppm	Fe %	Mo ppm	Sb ppm	S %	W ppm
Count Numeric	101	101	101	101	101	101	101	101	101	101
Count Text	0	0	0	0	0	0	0	0	0	0
Count Null	0	0	0	0	0	0	0	0	0	0
Count Negative	0	0	0	0	0	0	0	0	0	0
Count Zero	0	0	0	0	0	0	0	0	0	0
Unique Values	61	46	98	63	99	92	73	86	37	33
Minimum	0.5	0.05	4.2	0.09	8.13	2.1	0.09	0.37	0.02	0.025
Maximum	44.2	3.64	1665	6.76	177.5	27.7	41.2	22.26	1.68	12.2
Median	3.4	0.2	49	0.5	32.2	3.62	0.45	1.8	0.08	0.2
Geometric Mean	3.56	0.23	50.02	0.72	38.45	3.84	0.55	1.92	0.09	0.19
Standard Deviation	6.39	0.57	219.16	1.63	28.33	3.91	4.37	2.49	0.20	1.61
Interquartile Range	6	0.14	82.55	0.54	28.825	0.94	0.455	2.295	0.071	0.45
Range	43.7	3.59	1660.8	6.67	169.36	25.6	41.11	21.89	1.66	12.175
50 percentile	3.4	0.2	49	0.5	32.2	3.62	0.45	1.8	0.08	0.2
75 percentile	7.8	0.3	103.15	0.94	56.165	4.105	0.74	3.41	0.131	0.5
90 percentile	12.92	0.696	203.72	4.3	89.706	4.742	1.628	4.272	0.18	0.9
95 percentile	17.66	1.456	608.48	4.998	99.476	12.197	6.017	6.087	0.616	3.35
99 percentile	43.82	3.62	1648.35	6.76	176.22	27.69	40.64	21.97	1.67	12.13

Figure 7 – Silt samples correlation plot



The silt sample correlation data set displayed in Figure7 shows a strong correlation between bismuth(Bi) - copper(Cu), bismuth(Bi) – tungsten(W), and arsenic(As) – tungsten(W). Elemental enrichment in As, Bi, Cu, and W is common in contact skarns and sheeted veins associated with intrusion related gold systems, adding further evidence to support the presence of an intrusion related gold system on the Justin property. The lack of correlation between gold and associated pathfinder elements is likely the result of the significant variance in the silt sample matrix across the property.

Figure 8 – Ternary plot displaying the relationship between Au-Bi-Sb for silt samples

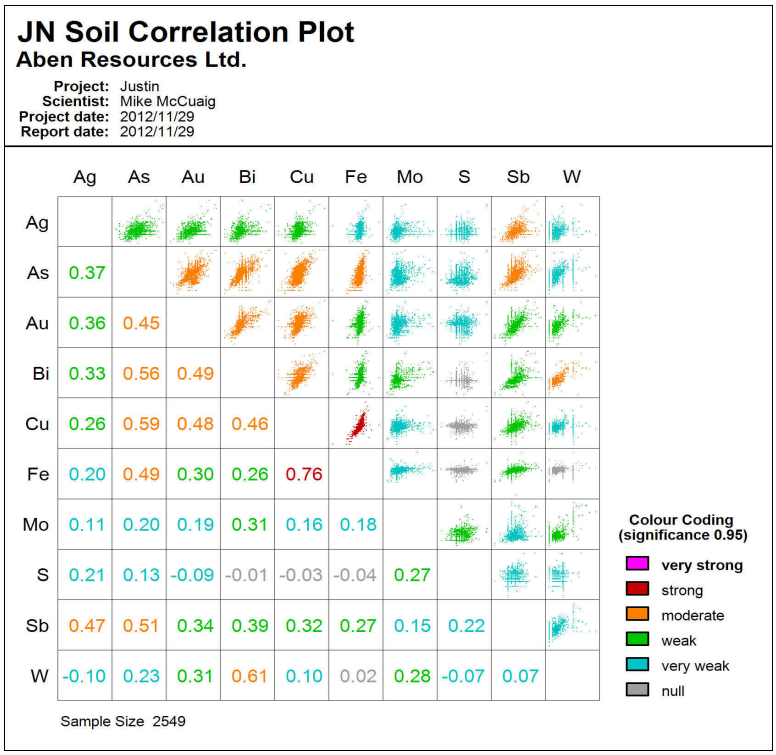


The ternary diagram for silt samples is not effective in highlighting relationships between Au-Bi-Sb. This is not surprising as these elements only display weak to moderate correlations within the silt data set.

Table 5: Soil sample geochemial statistics

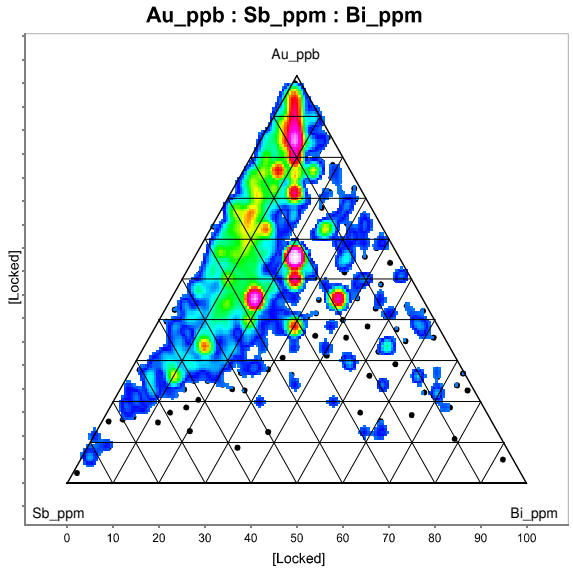
	Au ppb	Ag ppm	As ppm	Bi ppm	Cu ppm	Fe %	Mo ppm	Sb ppm	S %	W ppm
Count Numeric	2394	2549	2549	2549	2549	2549	1674	2549	1180	1674
Count Text	0	0	0	0	0	0	0	0	0	0
Count Null	162	7	7	7	7	7	882	7	1376	882
Count Negative	0	0	0	0	0	0	0	0	0	0
Count Zero	0	0	0	0	0	0	0	0	0	0
Unique Values	238	147	814	260	780	749	248	477	151	83
Minimum	0.05	0.02	0.5	0.02	0.5	0.005	0.12	0.05	0.0025	0.025
Maximum	805	73.8	10000	508	6270	302	96	230	1.3	710
Median	3.7	0.1	39.2	1	30	3.74	0.5	1.32	0.04	0.5
Geometric Mean	4.28	0.16	37.04	0.99	29.44	3.34	0.67	1.52	0.04	0.55
Standard Deviation	25.70	1.71	464.31	14.71	142.97	6.26	4.27	7.78	0.07	18.28
Interquartile Range	6.5	0.105	74	0.84	23	1.695	0.54	1.41	0.04	4.86
Range	804.95	73.78	9999.5	507.98	6269.5	301.995	95.88	229.95	1.2975	709.975
50 percentile	3.7	0.1	39.2	1	30	3.74	0.5	1.32	0.04	0.5
75 percentile	9	0.205	88	1.34	43	4.435	1	2.41	0.06	5
90 percentile	15	0.5	193	2.5	66	5.2	1.5	4.06	0.09	5
95 percentile	25	0.6	389	6	103	5.935	2.5625	6	0.12	5
99 percentile	70.17	1.35	1312.50	26.00	324.00	9.75	14.03	18.17	0.27	5.00

Figure 9 – Soil samples correlation plot



The soil sample correlation data set displayed in Figure 9 shows a moderate correlation between gold (Au) - antimony (Sb) and gold(Au) – bismuth(Bi). The moderate correlation between Au-Sb-Bi is somewhat muted compared with the rock data. The correlation is consistent with the intrusion related gold model, but may be masked by the mechanical and chemical weathering properties of these elements within the soil profile. Strong correlations are also observed between copper(Cu) – iron(Fe), yielding similar correlations as the rock data set. A note of caution when interpreting soil and silt geochemical data: elemental correlations with Fe can represent secondary dispersion within the environment creating hydromorphic anomalies where elements are preferentially absorbed by iron. This absorption of elements can create anomalies which are not representative of a primary source.

Figure 10 – Ternary plot displaying the relationship between Au-Bi-Sb for soil samples



One moderate-well developed population is displayed between Au-Sb on the diagram above. The broad green-orange

cluster observed on the left hand side of the ternary diagram indicates that Au-Sb are associated more readily in the soils than Au-Bi. Mechanical dispersion, chemical dispersion, elemental mobility, and primary zonation within the hydrothermal system are all reasons that could affect the relationship between Au-Sb-Bi in the soil profile. In the future, all anomalies which contain Au-Sb-Bi correlations should be investigated in further detail.

Metallurgical Testing

(after Angrove, 2012)

The preliminary metallurgical program was designed to study the response of two composites of "gold ore" selected from diamond drill hole samples collected in 2011. G& T Metallurgical Services, a subsidary of ALS Metallurgy from Kamloops, BC, were contracted to conduct the metallurgical testing. The assessment included gold extraction response to gravity separation and cynidation leach test work.

Under direction from G&T Metallurgical Services, two composite samples were assembled to represent two distinctly different styles of mineralization collected from the POW zone. Each composite sample was comprised of a group of consecutive samples from which a total of 10.0 kg of drill core material was homogenized. Composite sample number one was comprised of 10 consecutive samples from JN11009 (JN11009-167 through JN11009-176) representing gold + massive magnetite+/-pyrrhotite+/-bismuth replacement of the calc-silicate skarn. Composite sample number two was comprised of 12 consecutive samples from JN11010 (JN11010-071 through JN11010-082) representing vein controlled gold+ arsenopyrite+/-bismuth+/-sulfosalts which cross-cut the calc-silicate skarn.

The gold grade for both composite samples was about 3.0 g/t. The silver content of Composite 1 was negligible, where as the silver grade for Composite 2 was 27.0 g/t. The arsenic and sulfur levels are significantly higher in Composite 2, reflecting the difference in style of mineralization. The higher levels of arsenic and sulphur may present difficulties with regards to the free-milling cyanidation of Composite 2, as arsenopyrite is known to be a host of refractory gold.

The initial gravity separation/bottle roll cyanidation tests indicated the gold recovery for Composite 1 was about 87 percent. The gold recovery for Composite 2 was significantly less, about 62 percent. This may indicate that there is a refractory gold component in Composite 2. Only a moderate portion, between 15 to 20 percent, of the recovered gold reported to the gravity concentrate, which may be insufficient to warrant a gravity circuit. Gold dissolution kinetics on the gravity tailing was rapid, with the bulk of the exposed cyanidable gold being solubilized within six hours from the start of the leaching process.

The preliminary metallurgical program provides a valid, but very broad picture of the metallurgical properties of two different mineralization styles at the Justin Property.It is cautioned that this first pass assessment of two 10 kg samples from drill core must not be interpreted as a final metallurgical report. Further rigorous test work would be required to investigate the refractory nature of Composite 2 and all other styles of mineralization discovered during the 2012 exploration program. This would include, but is not limited to: gravity separation, cyanide leaching, mineralogy studies, and flotation response.

For a detailed summary of the metallurgical program please refer to Appendix 5.4.

ABN:TSX-V

Aben RESOURCES LTD.

Justin Project
Figure 11a - 2012 Justin Property Rock Sample Location Map and Geochemistry - Au
Projection - NAD 83 UTM Zone 9N
Scale - 1: 10 000 1/17/2013

March Fault

JKJNR009
JKJNR011
JKJNR012
JKJNR010
JKJNR008
A
JKJNR005
JKJNR006
JKJNR007
POW Zone
COR1
RZJNR004
RZJNR003
RZJNR007
JVJNR004
JVJNR005
JVJNR006
JVJNR007
Magneto
JVJNR008
A'
PCH
RZJNR001
JKJNR001
JKJNR002
JVJNR003
JVJNR002
JKJNR003
JVJNR001
LJJNR001
LJJNR002
RZJNR013
RZJNR014
RZJNR015
MMJNR036
RZJNR005
RZJNR004
RZJNR016
MMJNR039
MMJNR035
JVJNR009
POW Zone
MMJNR040
LJJNR010
JKJNR004
MMJNR038
MMJNR042
MMJNR041
MMJNR037
1:5,000
PCH
LJJNR008
LJJNR007
Justin Fault
LJJNR018
LJJNR009
RZJNR017
RZJNR018
RZJNR019
RZJNR020
Big Swifty
RZJNR021
RZJNR022
RZJNR023
RZJNR024

0 500 1,000 1,500 2,000
Meters

Legend

Rock Sample

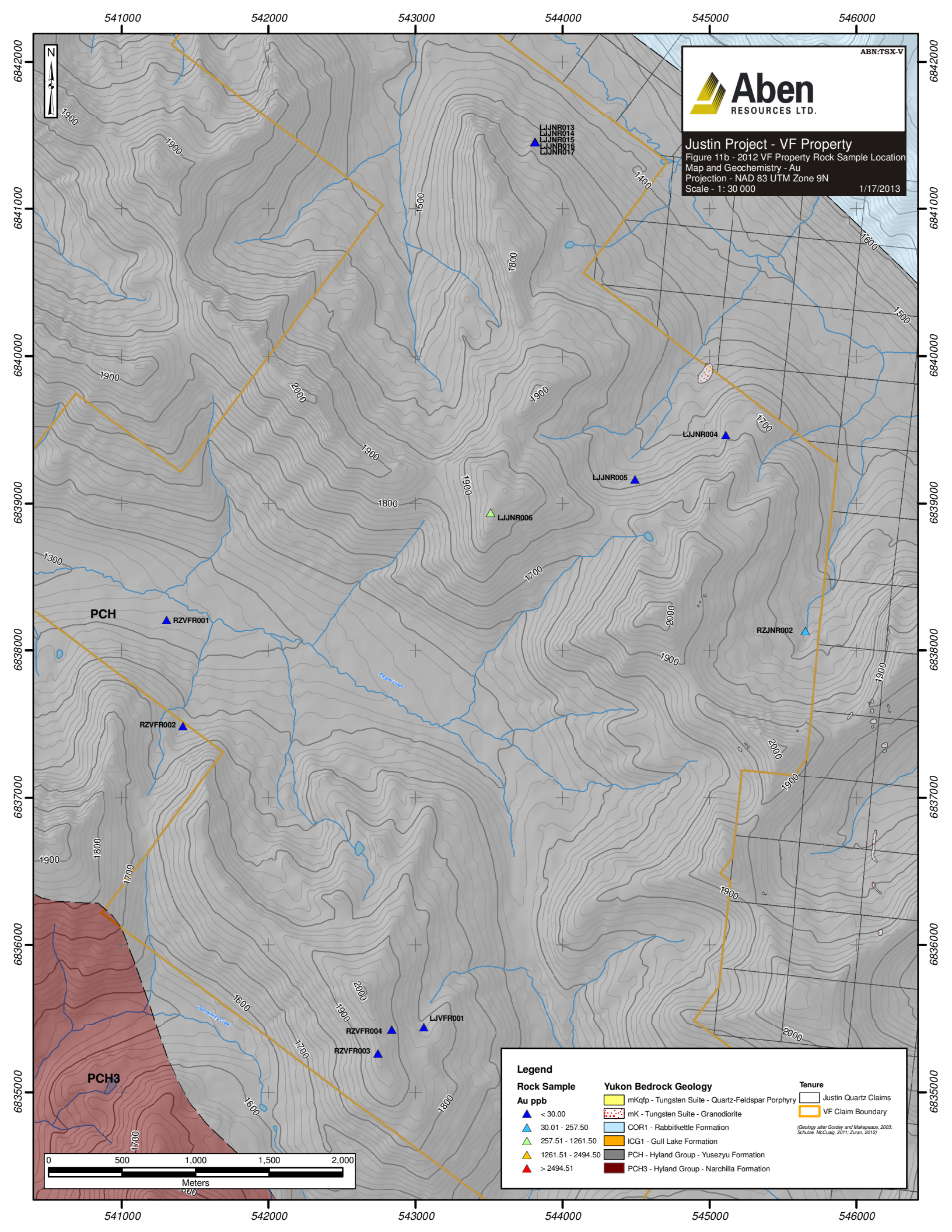
Au ppb

- < 30.00
- 30.01 - 257.50
- 257.51 - 1261.50
- 1261.51 - 2494.50
- > 2494.51
- VF Claim Boundary
- Justin Quartz Claims

Yukon Bedrock Geology

- mKqfp - Tungsten Suite - Quartz-Feldspar Porphyry
- mK - Tungsten Suite - Granodiorite
- COR1 - Rabbitkettle Formation
- lCG1 - Gull Lake Formation
- PCH - Hyland Group - Yusezyu Formation
- PCH3 - Hyland Group - Narchilla Formation

(Geology after Gordey and Makepeace, 2003; Schulze, McGuigan, 2011; Zuran, 2012)


ABN:TSX-V
Aben
RESOURCES LTD.
Justin Project - VF Property
Figure 11b - 2012 VF Property Rock Sample Location Map and Geochemistry - Au
Projection - NAD 83 UTM Zone 9N
Scale - 1: 30 000
1/17/2013
N
541000
542000
543000
544000
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546000
6842000
6841000
6840000
6839000
6838000
6837000
6836000
6835000
LJJNR013
LJJNR014
LJJNR015
LJJNR016
LJJNR017
LJJNR004
LJJNR005
LJJNR006
RZJNR002
RZVFR001
RZVFR002
RZVFR003
RZVFR004
LJVFR001
PCH
PCH3
0
500
1,000
1,500
2,000
Meters
Legend
Rock Sample
Au ppb
< 30.00
30.01 - 257.50
257.51 - 1261.50
1261.51 - 2494.50
> 2494.51
Yukon Bedrock Geology
mKqfp - Tungsten Suite - Quartz-Feldspar Porphyry
mK - Tungsten Suite - Granodiorite
COR1 - Rabbitkettle Formation
lCG1 - Gull Lake Formation
PCH - Hyland Group - Yusezyu Formation
PCH3 - Hyland Group - Narchilla Formation
Tenure
Justin Quartz Claims
VF Claim Boundary
(Geology after Gordey and Makepeace, 2003; Schulze, McCuaig, 2011; Zuran, 2012)

ABN:TSX-V

Aben RESOURCES LTD.

Justin Project

Figure 12a - 2012 Justin Project Soil and Silt Sample Locations and Geochemistry Results - Au
Projection - NAD 83 UTM Zone 9N
Scale - 1: 30 000 1/16/2013

544000 546000 548000 550000

6842000 6840000 6838000 6836000 6834000 6832000

JNL017 25+00W
RZJND007
JNL017 00+00
JKJNS003
JNL015 01+50E
JNL015 25+00E
JNL014 00+00
JKJNS001
JKJNS002
JNL013 04+50E
JNL013 20+00E
JNL014 20+00W
POW Zone
LJJNS003
RZJNS001
RZJNS005
RZJND006
RZJND005
RZJND004
RZJNS004
Magneto
RZJNS003
RZJND003
RZJND001a
Kangas Zone
RZJNS002
RZJND010
RZJND008
RZJND009
RZJNS012
Main Zone
JNL020 03+00W
JNL020 00+00
JNL021 00+00
JNL021 04+00E
JNL019 00+00
JNL019 05+00W
Confluence Zone
JNL022 00+00
JNL016 00+00
RZJND011
RZJND013
RZJND012
RZJNS011
JNL016 35+00E
RZJNS010
Big Swifty
RZJNS007
RZJNS009
RZJNS008
JNL022 15+00E
RZJNS013
RZJND017
RZJND015
RZJNS014
RZJND016
RZJND014
RZJNS015
RZJNS016

0 500 1,000 1,500 2,000
Meters

Legend

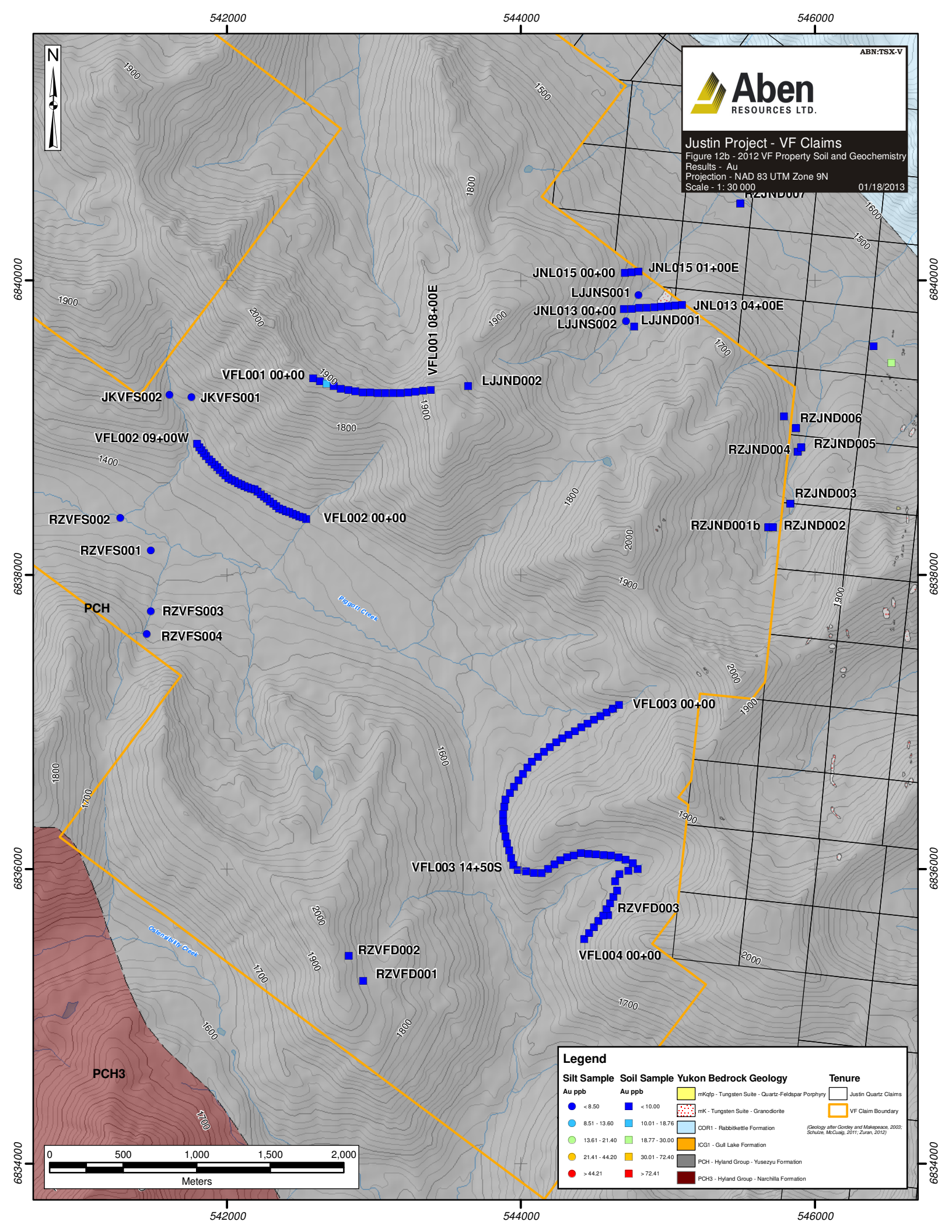
Silt Sample Au ppb
- < 8.50
- 8.51 - 13.60
- 13.61 - 21.40
- 21.41 - 44.20
- > 44.21

Soil Sample Au ppb
- < 10.00
- 10.01 - 18.76
- 18.77 - 30.00
- 30.01 - 72.40
- > 72.41
- No Sample

Yukon Bedrock Geology
- mKqfp - Tungsten Suite - Quartz-Feldspar Porphyry
- mK - Tungsten Suite - Granodiorite
- COR1 - Rabbitkettle Formation
- lCG1 - Gull Lake Formation
- PCH - Hyland Group - Yusezyu Formation
- PCH - Hyland Group - Narchilla Formation

Tenure
- Justin Quartz Claims
- VF Claim Boundary

(Geology after Gordey and Makepeace, 2003; Schulze, McCuaig, 2011; Zuran, 2012)


542000
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ABN:TSX-V
Aben
RESOURCES LTD.
Justin Project - VF Claims
Figure 12b - 2012 VF Property Soil and Geochemistry Results - Au
Projection - NAD 83 UTM Zone 9N
Scale - 1: 30 000
01/18/2013
JNL015 00+00
JNL015 01+00E
LJJNS001
JNL013 00+00
JNL013 04+00E
LJJNS002
LJJND001
VFL001 08+00E
VFL001 00+00
LJJND002
JKVFS002
JKVFS001
RZJND006
RZJND004
RZJND005
VFL002 09+00W
RZJND003
RZVFS002
VFL002 00+00
RZJND001b
RZJND002
RZVFS001
PCH
RZVFS003
RZVFS004
Pagoda Creek
VFL003 00+00
VFL003 14+50S
RZVFD003
Ostensibly Creek
RZVFD002
RZVFD001
VFL004 00+00
PCH3
0
500
1,000
1,500
2,000
Meters
Legend
Silt Sample
Au ppb
< 8.50
8.51 - 13.60
13.61 - 21.40
21.41 - 44.20
> 44.21
Soil Sample
Au ppb
< 10.00
10.01 - 18.76
18.77 - 30.00
30.01 - 72.40
> 72.41
Yukon Bedrock Geology
mKqfp - Tungsten Suite - Quartz-Feldspar Porphyry
mK - Tungsten Suite - Granodiorite
COR1 - Rabbitkettle Formation
lCG1 - Gull Lake Formation
PCH - Hyland Group - Yusezyu Formation
PCH3 - Hyland Group - Narchilla Formation
Tenure
Justin Quartz Claims
VF Claim Boundary
(Geology after Gordey and Makepeace, 2003; Schulze, McCuaig, 2011; Zuran, 2012)

Geophysics

Background Information (after Hart, 2012)

Igneous rocks in southeastern Yukon are mostly represented on aeromagnetic surveys by their low magnetic responses. Since the magmas that formed the intrusive rocks on the property had a low primary oxidation state, the iron and titanium formed ilmenite and not magnetite, and therefore resulted in non-magnetic plutons.

The hornfelsed zones around and above the plutons have variably high magnetic signatures, as the heat from the plutons formed skarns containing pyrrhotite and magnetite. On the Justin property the magnetite skarns further emphasize the magnetic response of the thermally metamorphosed Hyland group sediments.

The contrast between the magnetic high and lows results in a doughnut effect, where the magnetically high hornfels and skarns encircle the magnetically low plutons.

The airborne geophysics is also an effective tool for visualizing structures such as the Justin and March faults.

Refer to Figure 13b for interpretations of the Justin aeromag dataset.

2012 Exploration

Aurora Geosciences of Whitehorse, YT were contracted to complete approximately 26 line kilometres of ground based magnetic survey on the Justin property. The purpose of the survey was to infill an area immediately west of the POW zone which was not covered during the 2010 airborne survey conducted by Eagle Plains Resources Ltd., or by the 2011 airborne survey conducted by Bearing Resources Ltd. on the VF property.

A total of 26.05 line kilometres were surveyed at 10 m and 100 m station and line spacing, respectively, with lines running nearly NE/SW (36°/216°).

Overall the terrain, though steep in some places, presented no significant barriers to the safe and efficient implementation of the survey.

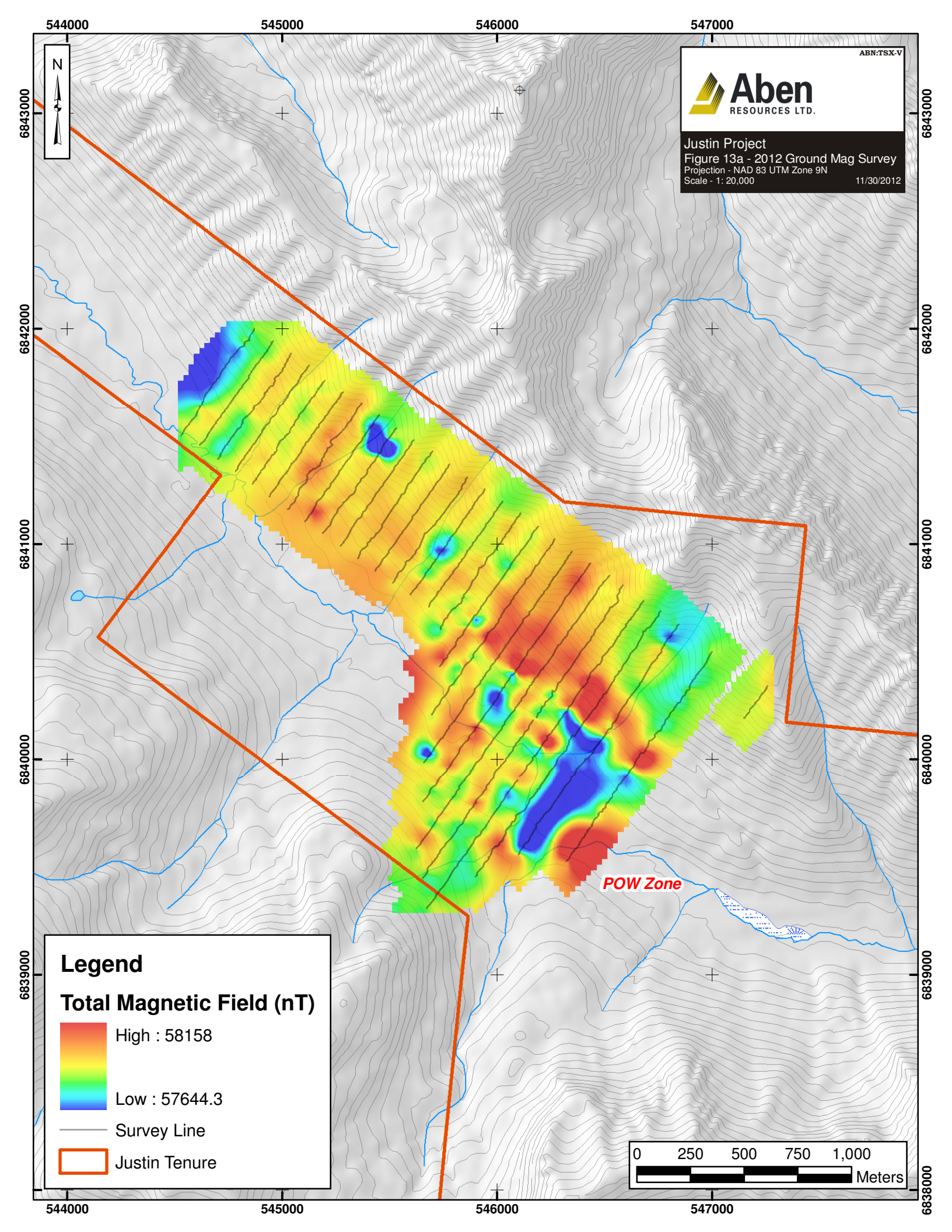
Refer to the field report in Appendix VI for a detailed summary of the survey methodology and results.

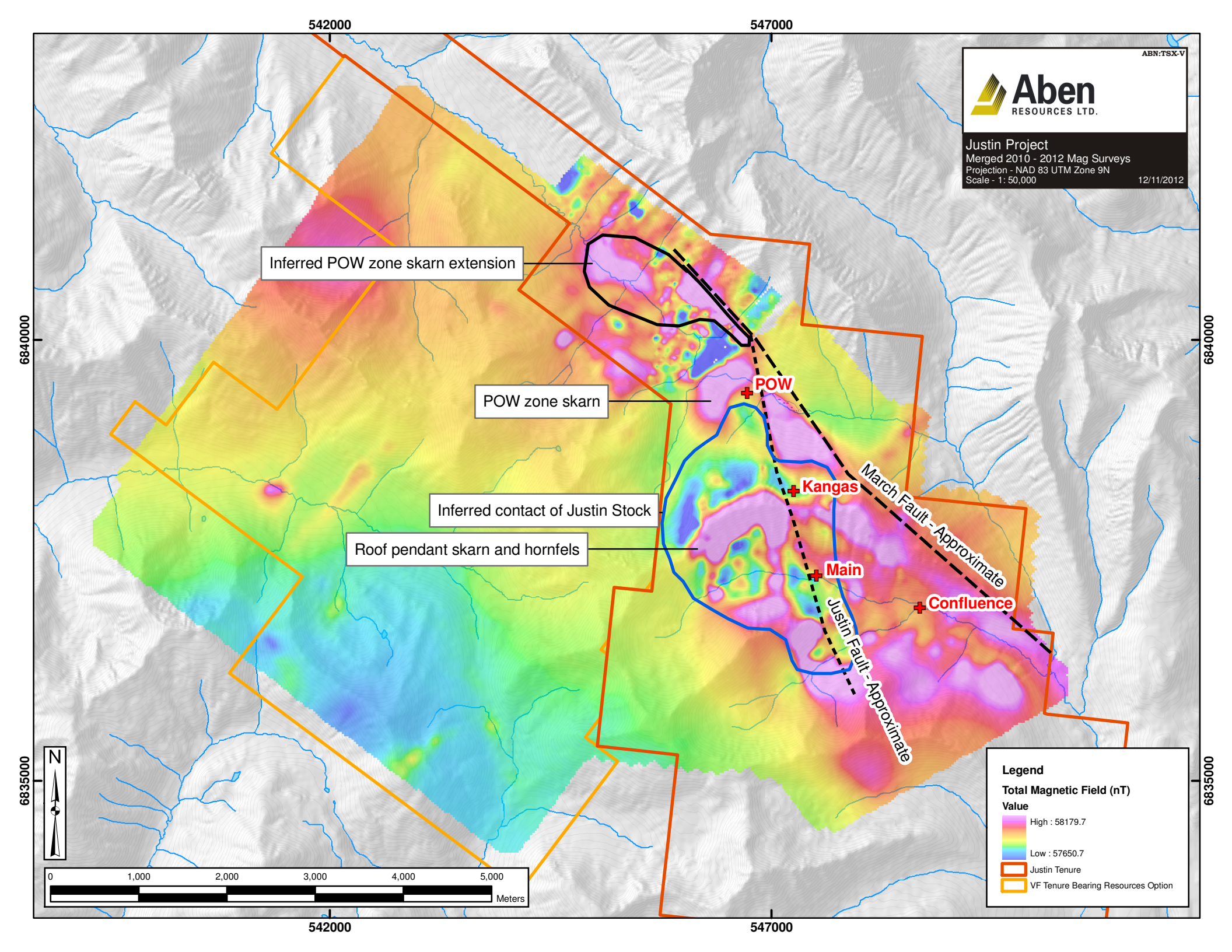
Several conclusions can be interpolated from the ground based magnetic survey. Refer to Figure 13b.

1) L2700 E confirmed the magnetic high produced by the POW zone skarn observed in the 2010 aeromagnetic survey
2) The pronounced magnetic low observed on L2500 E and L2400 E is likely in response to extensive till which forms an alluvial fan west of the POW zone. The shape of the magnetic low follows the same geometric shape as part of the alluvial fan. The geophysical technician conducting the survey did indicate that significant till cover can mask bedrock magnetic signatures.
3) The magnetic high anomalies located northwest of the western POW zone are throught to represent the northwestern expression of the calc-silicate skarn. It appears as though the northern margin of the magnetic skarn is bound by an NW trending lineament which is inferred to represent the subsurface trace of the March Fault.
4) The magnetic high signatures directly west of the POW zone on the VF survey are thought to represent the strike extension of the calc-silicate skarn. Pronounced magnetic lows within the magnetic units are thought to represent small cupola zones of the larger granodiorite stock.

Aurora Geosciences was also contracted to model an EM anomaly discovered during the 2010 airborne survey completed by Eagle Plains Resources Ltd. The EM anomaly indicated that a strong conductor lay immediately adjacent to the western margin of the POW zone skarn. The purpose of the modeling was to constrain the geometry of the anomaly to determine if there was a relationship between the conductor and the POW zone skarn. For a detailed description of the EM modeling methodology and results refer to Appendix 6.

Mapping and drilling activities during 2012 revealed a rock type which is thought to represent one of the sources of the EM conductor anomaly. A heterolitic breccia with a pyrite rich graphitic matrix was first discovered in glacial till on the western margin of the POW zone and again intersected in drill core in DDH JN12019. Both the glacial boulder and the drill core occur at the eastern margin of the EM anomaly. At the time of writing, the graphite rich heterolithic breccia is thought to be the source of the strong EM conductor. The timing of the breccia is unclear, further work is needed to understand if there is relationship between gold mineralization and the graphite rich rock type.


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ABN:TSX-V
Aben
RESOURCES LTD.
Justin Project
Figure 13a - 2012 Ground Mag Survey
Projection - NAD 83 UTM Zone 9N
Scale - 1: 20,000
11/30/2012
POW Zone
Legend
Total Magnetic Field (nT)
High : 58158
Low : 57644.3
Survey Line
Justin Tenure
0
250
500
750
1,000
Meters


542000
547000
6840000
6835000
ABN:TSX-V
Aben
RESOURCES LTD.
Justin Project
Merged 2010 - 2012 Mag Surveys
Projection - NAD 83 UTM Zone 9N
Scale - 1: 50,000
12/11/2012
Inferred POW zone skarn extension
POW zone skarn
Inferred contact of Justin Stock
Roof pendant skarn and hornfels
POW
Kangas
Main
Confluence
March Fault - Approximate
Justin Fault - Approximate
N
0
1,000
2,000
3,000
4,000
5,000
Meters
Legend
Total Magnetic Field (nT)
Value
High : 58179.7
Low : 57650.7
Justin Tenure
VF Tenure Bearing Resources Option

Diamond Drilling Program

A total of 1,528 metres of NQ core and 466 metres of HQ core were drilled in 9 holes during the 2012 exploration program, all targeting the POW zone. Table 5 contains drill hole collar information. Drill hole collar locations were surveyed using a hand held DGPS with 0.5 – 1.0 metre accuracy. Down-hole survey measurements were completed using a Flexit survey tool. Down hole oriented core surveys were completed using the CorientR tool provided by Fordia. All pertinent geological drill hole data was collected using an integrated digital core logging system database designed by TerraLogic Exploration Inc.

Table 6: Diamond Drill Hole Collar Information

Zone	Hole Number	Length(m)	Azimuth	Dip	Easting	Northing	Accuracy(m)	Elevation(m)	Hole Status	Start Date	Finish Date
POW	JN12011	363.3	130	-45	546284	6839640	0.5	1438	COMPLETE	07/23/12	07/29/12
POW	JN12012	157.5	80	-45	546734	6839430	0.5	1430	COMPLETE	07/29/12	08/01/12
POW	JN12013	162.0	260	-45	546656	6839429	0.5	1435	COMPLETE	08/01/12	08/03/12
POW	JN12014	294.0	80	-50	546662	6839429	0.5	1434	COMPLETE	08/04/12	08/07/12
POW	JN12015	21.0	80	-45	546338	6839547	0.5	1438	ABANDONED	08/07/12	08/08/12
POW	JN12016	300.0	270	-46	546559	6839484	0.5	1432	COMPLETE	08/08/12	08/12/12
POW	JN12017	171.0	80	-60	546284	6839641	0.5	1439	ABANDONED	09/07/12	09/11/12
POW	JN12018	312.0	80	-53	546284	6839641	0.5	1439	COMPLETE	09/11/12	09/15/12
POW	JN12019	210.0	80	-55	546296	6839504	0.5	1465	COMPLETE	09/16/12	09/23/12

HOLES PLOTTED

TOTAL 11

JN11009	JN11010	JN12011	JN12012	JN12013
JN12014	JN12015	JN12016	JN12017	JN12018
JN12019				

Legend

Geology

Structural Symbology

- Bedding
- Contact - Assumed
- Fault - Assumed
- Fracture - number/meter
- Mineralized Vein
- Rubble Crop
- Slickenline
- Vein

Intrusive Rocks

CRETACEOUS

- Biotite Granodiorite
- Quartz Feldspar Porphyry

Sedimentary Rocks

PRECAMBRIAN

- Hyland Group - Skarn
- Hyland Group - Undifferentiated Siliclastics and Calcareous Strata

(Geology after Zuran, 2012)

PLAN SPECS:

REF. PT. E, N 546600 m 6840000 m

EXTENTS 677.4 m 543.5 m

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

N W E S

Aben Resources Ltd.

Justin Property

Figure 14 - 2012 DDH Plan Map

Diamond Drilling Results

In all, a total of 1,284 drill core samples were shipped to ALS Chemex in Whitehorse for laboratory analysis. Sample intervals were selected during the core logging procedure to encompass zones of favourable alteration, mineralization, and veining. Refer to Appendix III for a detailed description of core logging, sampling, and analytical procedures. Table 7 provides a summary of significant intercepts.

Drill hole summaries and cross-sections are provided below and are presented in the same order as outlined in Table 7.

Table 7: 2012 Diamond Drilling Significant Intersections

Drill Hole	From(m)	To(m)	Interval (m)	Au (g/t)
JN12011	131.6	178.0	**46.4**	***1.49***
Including	145.5	160.5	**15.0**	***3.08***
Also Including	147.5	156.7	**9.2**	***3.80***
JN12012	79.9	102.1	**22.2**	***0.26***
Including	83.3	91.1	**7.8**	***0.41***
JN12013	14.2	21.3	**7.1**	***0.67***
Including	17.0	18.2	**1.2**	***3.11***
And	26.6	34.0	**7.4**	***1.81***
Including	30.8	33.0	**2.2**	***4.42***
JN12014	41.5	43.3	**2.8**	***4.22***
And	217.0	224.5	**7.5**	***0.94***
JN12015	*No Significant Results*			
JN12016	98.0	99.0	**1.0**	***4.15***
And	102.0	107.3	**5.3**	***4.12***
Including	104.7	107.3	**2.6**	***8.20***
And	133.2	133.6	**0.4**	***4.46***
JN12017	*No Significant Results*			
JN12018	202.0	209.9	**7.9**	***0.39***
And	211.7	223.2	**11.5**	***1.38***
And	223.9	226.2	**2.3**	***1.62***
And	227.1	249.0	**21.9**	***1.06***
And	264.4	272.0	**7.6**	***0.49***
And	272.9	276.9	**4.0**	***1.38***
Including	272.9	273.2	**0.3**	***14.40***
JN12019	102.0	104.4	**2.4**	***2.44***
Including	102.0	102.6	**0.6**	***6.68***
And	175.5	177.8	**2.3**	***1.29***
And	208.5	210.0	**1.5**	***0.91***

Geochemical Statistics

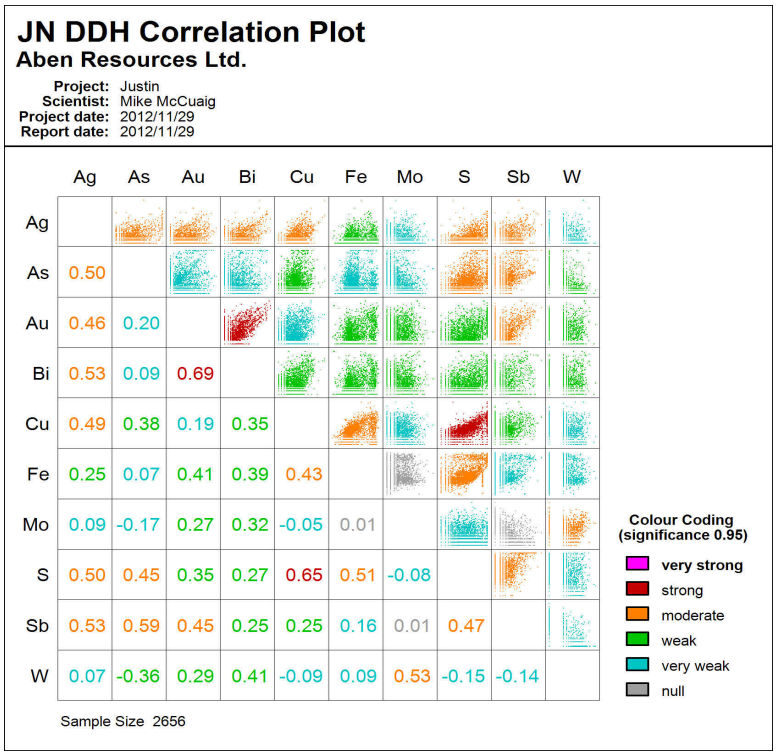
Drill Core Samples:

The following table and figures highlight the elemental correlations for drill core samples derived from the Justin geochemical database. The data is inclusive of all samples collected to date on the Justin property. Historic data collected prior to 2011 has been imported into the Justin geochemical database for the following suite of elements which are used as pathfinders for gold mineralization. These elements include: Ag, As, Au, Bi, Co, Cu, Fe, Mo, Pb, Sb, W, and Zn. Not all of the historic assay results could be located for samples collected on the Justin property, and as a result, there are discrepancies in the total number of samples collected for each element.

Table 8: Drill core sample statistics

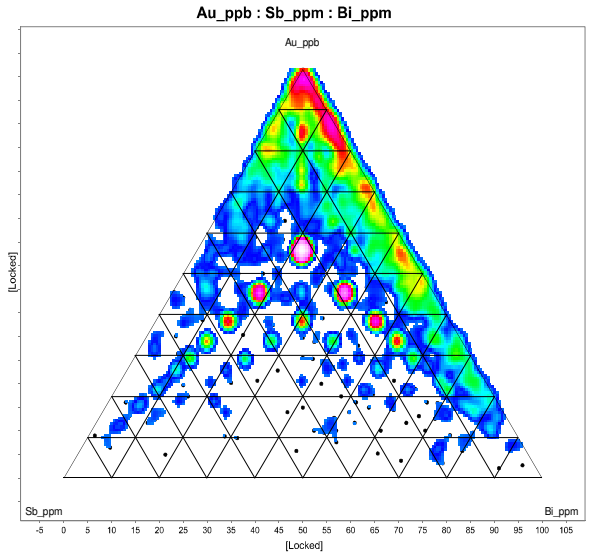
	Au ppb	Ag ppm	Bi ppm	Cu ppm	Fe %	Sb ppm	S %	W ppm
Count Numeric	2655	2656	2656	2656	2656	2656	2656	2656
Count Text	0	0	0	0	0	0	0	0
Count Null	1	0	0	0	0	0	0	0
Count Negative	0	0	0	0	0	0	0	0
Count Zero	0	0	0	0	0	0	0	0
Unique Values	483	110	273	392	839	112	419	96
Minimum	2.5	0.1	1	0.5	0.29	1	0.01	0.5
Maximum	21200	1500	4140	35600	44.1	632	10	9520
Median	12	0.1	3	22	2.75	1	0.43	0.5
Geometric Mean	17.41	0.24	5.33	20.35	3.49	2.37	0.40	2.84
Standard Deviation	859.45	29.90	221.75	1140.09	8.00	27.42	2.25	288.90
Interquartile Range	58.5	0.3	15	50	3.1475	3	1.0975	19.5
Range	21197.5	1499.9	4139	35599.5	43.81	631	9.99	9519.5
50 percentile	12	0.1	3	22	2.75	1	0.43	0.5
75 percentile	61	0.4	16	57	4.9575	4	1.2275	20
90 percentile	335	1.4	76.6	190	20.2	15	3.592	120
95 percentile	798.8	3.1	205.05	451	26.215	33	7.433	290
99 percentile	3813.2	17.759	936.02	1662.2	33.143	136.15	10	820

Figure 15 – Drill core sample correlation plot



The drill core sample correlation dataset displayed in Figure 15 shows a strong correlation between gold(Au) – bismuth(Bi) and a moderate correlation between gold(Au) - antimony(Sb). The strong correlation between Au-Bi and moderate correlation between Au-Sb are consistent with the intrusion related gold model, where gold is transported as Au-Bi-Sb+/-Te-S alloys (Hart, 2012). Strong correlations are also observed with copper(Cu) – sulfur(S) and moderate correlations between molybdenite(Mo) – tungsten(W). Variation in the correlation between Au-Bi-Sb within the primary environment is known to change in intrusion related gold systems (Hart). These systems are typically zoned, with Au-Bi occurring proximal to the intrusion in higher temperature regimes, and Au-Sb occurring in distal, lower temperature regimes. Accurate modelling of the geochemistry for an intrusion related gold system should take into account primary dispersion in the system to effectively evaluate the relationship and distribution between these elements.

Figure 16 – Ternary plot displaying the relationship between Au-Bi-Sb for drill core samples



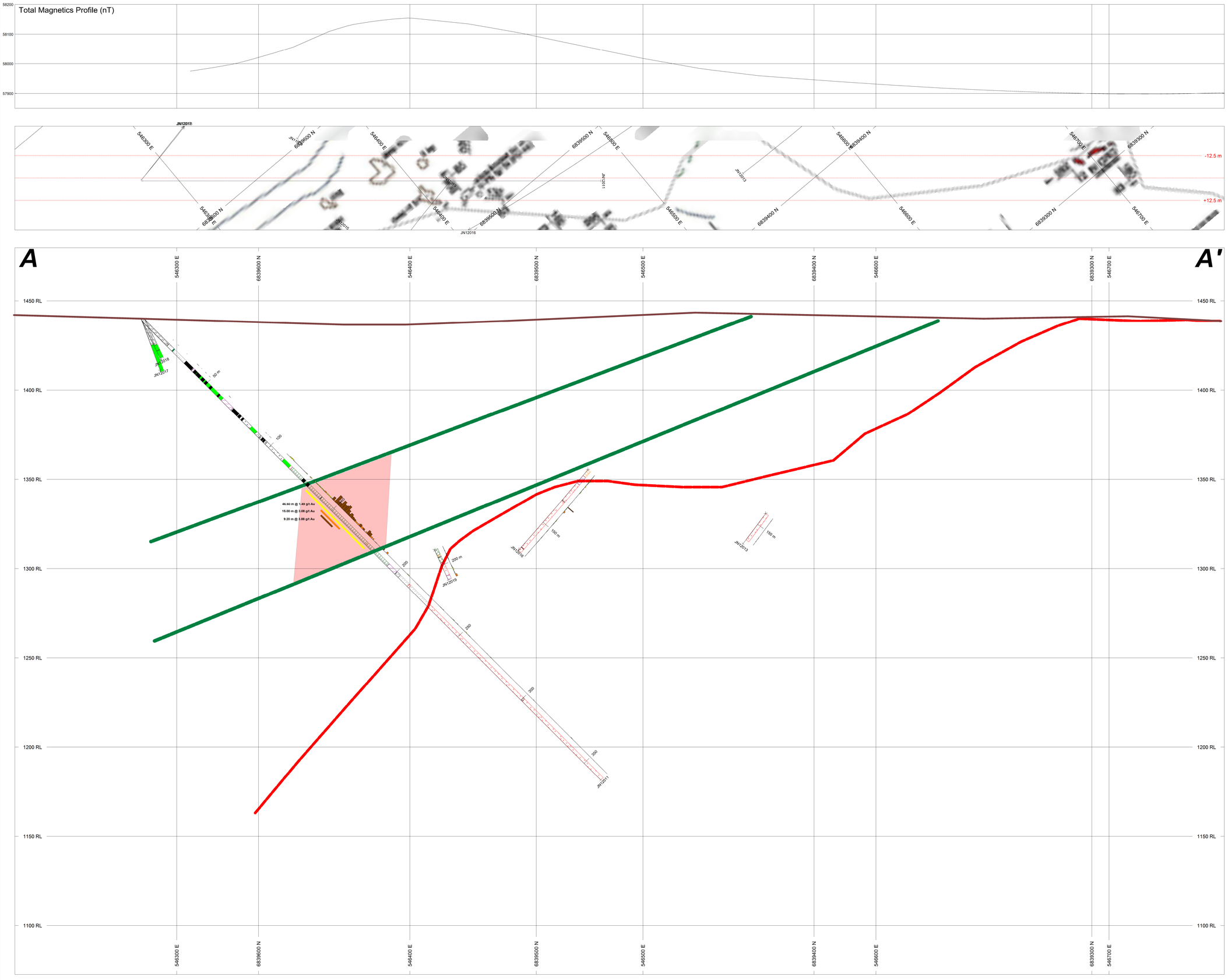
The drill core samples provide a concise view of the relationship between Au-Bi and Au-Sb as displayed in the ternary diagram above. Four distinct populations are observed between Au-Bi, highlighted on the right side of the diagram as bright pink – greenish blue clusters. These clusters indicate that there are different phases of Au-Bi mineralization which may reflect evolution of the mineralizing system. Au and Sb have one moderately developed population, suggesting that the two elements are associated with a specific stage of mineralization or mineral species.

Diamond Drill Hole Summaries

Section 2 – JN12011 (Figure 17)

JN12011: Azimuth 130º, Inclination – 45º, EOH – 363.3 metres

Hole JN12011 was designed to test the strike extension of skarn and vein hosted mineralization which returned 60.0 metres grading 1.19 g/t Au in JN11009. Interbedded siltstone, banded skarn, and quartz pebble conglomerate occur to a depth of 115.9 metres. The quartz pebble conglomerate displays strong hornfels alteration observed as pervasive silicification and clay alteration of feldspar clasts. From 115.9 to 193.8 metres, calc-silicate skarn, massive sulphide-silica replacement, retrograde magnetite skarn and sheeted veins were intersected. This zone was the primary target of JN12011 and returned significant intersections, including 15.0 metres grading 3.10 g/t Au. The complex mineralology and overprinting relationships observed within the drill core can be difficult to decipher; once understood, they tell a systematic story on the evolution of the system. Originally, the entire interval was calc-silicate skarn hosting laminated and massive magnetite +/-chalcopyrite+/-pyrrhotite+/-gold. A second pulse of sulfur and silica rich hydrothermal fluids then overprinted the skarn, replacing the magnetite with pyrite+/-pyrrhotite+/-gold+/-sulfosalts+/-bismuthinite. At least two generations of quartz veining post date the skarn, one of which is auriferous and one of which is barren. The auriferous quartz veins tend to occur as discreet millimetres scale sheeted vein arrays within the skarn and host bismuthinite, native bismuth, native gold, chalcopyrite, and pyrrhotite. As a final stage to the system, the skarn underwent partial to pervasive iron-carbonate-clay retrograde alteration, yielding a soft, friable, yellow-brown coloured clay rich rock. It is unclear at present if the retrograde alteration is associated with a gold mineralizing event, or the barren quartz veining event. The soft nature of the retrograde skarn consistently proved difficult to drill and recoveries were poor in intervals containing this rock type. From 193.8 to 226.5 metres, intensely hornfelsed siltstone and quartz pebble conglomerate were intersected. This interval was intensely veined, with sheeted quartz vein densities reaching in excess of 20 veins per metre. The veins host anomalous gold values and contain highly anomalous tungsten values. At a depth of 226.5 metres, the hole intersected the biotite granodiorite unit which will be referred to as the Justin stock. The biotite granodiorite to quartz monzonite stock is light grey-white to black in colour, generally equigranular, and veined. Moderate to intense clay and sericite alteration are observed in vein envelopes within the granodiorite. Where vein density increases to 3 – 5 veins per metre, alteration is pervasive. The sheeted quartz veins within the intrusion host pyrite, pyrrhotite , bismuthinite, native bismuth, molybdenite, and scheelite. Weakly anomalous gold values were returned from the sheeted veins within the intrusion. The hole was terminated at a depth of 363.3 metres within the granodiorite as the sheeted vein density and related alteration dissipated. This was the first time the Justin stock had been documented in drill core from the POW zone.



HOLES PLOTTED

TOTAL 6

JN12011 JN12013 JN12016 JN12017 JN12018 JN12019

INTERSECTIONS

- Third Order
- Second Order
- First Order

TOPOGRAPHY

- skarn
- granodiorite
- quartz-feldspar porphyry
- topography
- fault trace

BAR GRAPHS L/R COL RANGE

Au ppb R

- 1000
- 500
- 300
- 100

ROCK CODES	PAT	DESCRIPTION	CODE
Rock Type		calc-silicate rock	CLS
		calcareous siltstone	CSS
		fault	FLT
		granodiorite	GRD
		hornfels	HFL
		lost	LOS
		massive sulphide	MAS
		overburden	OVB
		quartz pebble conglomerate	QPC
		sandstone	SST
		siltstone	SLT
		skarn	SKN
		vein	VEN
		retrograde skarn	RSK
		semi-massive sulphide	SSX
		Mineralized Envelope	

SECTION SPECS:

REF. PT. E, N	546490 m	6839470 m
EXTENTS	677.4 m	407.2 m
SECTION TOP, BOT	1480 m	1073 m
TOLERANCE +/-	12.5 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

AZIMUTH = 130°

N W E S

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Figure 17 - Section 2

Section 3 – JN12012, JN12013, JN12014 (Figure 18)

JN12012: Azimuth 080º, Inclination – 45º, EOH – 157.5 metres

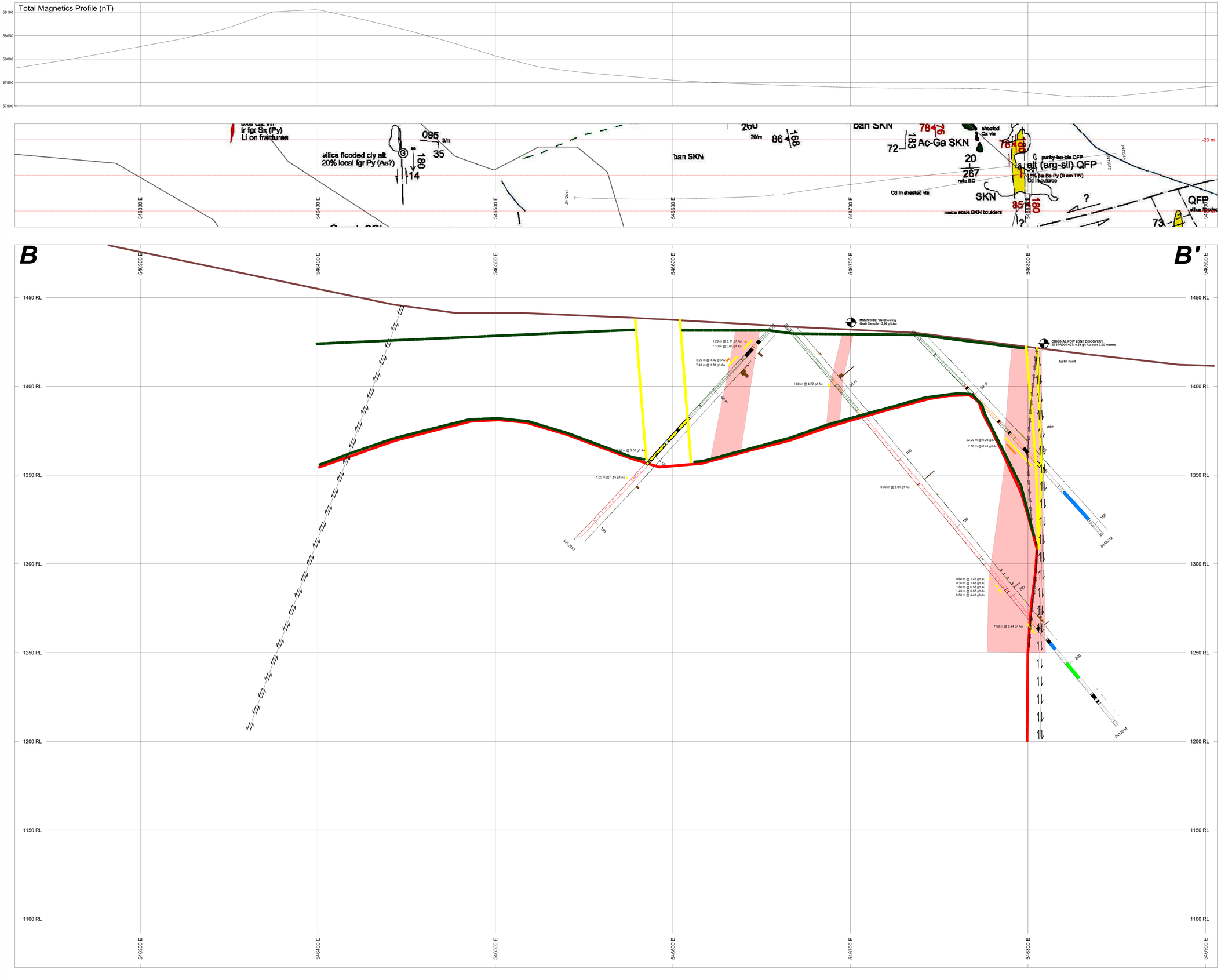
Hole JN12012 was designed to test the down dip extension of the original POW zone showing, an array of sheeted quartz veins in which samples from 2010 returned 0.54 g/t Au over 3.00 metres and 0.88 g/t Au over 1.00 metre. The hole collared in calc-silicate skarn, which continued to a depth of 102.1 metres. The skarn is in direct contact with the granodiorite, and throughout the skarn characteristics of both exoskarn and endoskarn were observed. The latter endoskarn occurs as calc-silicate altered granodiorite, observed as a mottled greenish-white-pinkish equigranular granodiorite to quartz-feldspar porphyry dykes and/or sills. A zone of sheeted quartz veining within the calc-silicate exoskarn was intersected from 79.9 metres to 102.1 metres, which returned 22.2 metres grading 0.26 g/t Au. Vein density through the interval ranged from 5 – 30 veins per metre. Intense tan coloured retrograde alteration as described in JN12011 occurred throughout the sheeted vein interval. Pyrite, pyrrhotite, chalcopyrite, bismuthinite, and scheelite were observed within the sheeted veins. A barren set of quartz veins is also present as a stockwork vein system overprinting the sheeted veins. From 102.1 to 107.4 metres, a quartz-feldspar porphyry dyke was intersected which is strongly fractured, veined, and weakly mineralized by pyrite and scheelite. From 107.4 to 108.2 metres, a large fault structure was intersected, one of the major N-S faults which comprise the Justin Fault system. Fragments of the quartz feldspar porphyry dyke and abundant clay gouge were observed within the fault. Tracing both the sheeted veins and porphyry dyke from surface indicates that the structure is nearly vertically inclined. From 108.2 to 157.5 metres interbedded siltstone, sandstone and black limestone were intersected. Hornfels alteration decreases from the fault contact at 108.2 metres and is not evident in the sediments by 112.5 metres. Bedding angles suddenly shift on the eastern side of the fault and were commonly observed at 10-20 degrees to core axis. No sheeted quartz veins or mineralization was observed below 108.2 metres. Bedding is highly deformed, with numerous folds observed within the core. The fault observed at 107.4 metres has allowed for an unknown amount of displacement which has in turn juxtaposed the calc-silicate skarn and granodiorite stock to the west, with unaltered Hyland group sediments to the east. The hole was terminated at a depth of 157.5 metres in unaltered equigranular grey quartz sandstone.JN12013: Azimuth 260º, Inclination – 45º, EOH – 162.0 metres

Hole JN12013 was designed to test the near surface potential of sheeted quartz vein arrays within the calc-silicate skarn identified early in the 2012 exploration program. The calc-silicate skarn was intersected from surface to a depth of 90.8 metres and is cross-cut by a quartz-feldspar porphyry dyke from a down-hole depth of 70.9 to 88.7 metres. Sheeted veining and retrograde alteration of the skarn began at a depth of 14.2 metres and continued to a depth of 27.8 metres. The friable nature of the retrograde skarn made for very difficult drilling conditions and as a result 7.4 metres of the interval was not recovered. The sheeted veins contain variable amounts of pyrite, pyrrhotite, scheelite, bismuthinite, chalcopyrite, and gold. The interval returned two significant intersections including 7.1 metres grading 0.67 g/t Au and 7.4 metres grading 1.81 g/t Au. These intervals represent the successful intersection of near surface gold mineralization within the POW zone. The calc-silicate skarn is also host to disseminated scheelite, which returned anomalous values from the collar to a depth of 70.3 metres. Seven assays returned tungsten values > 1000 ppm and 39 samples returned tungsten values > 100 ppm through this interval. A one metre interval of endoskarn at a depth of 88.7 metres returned 6880 ppm tungsten. The lower contact of the skarn is in contact with a quartz feldspar porphyry dyke which continued to a depth of 106.6 metres. The dyke is white in colour, with abundant clay on hairline fractures. Numerous quartz stockwork stringers cross-cut the dyke and contain molybdenite, bismuthinite, and native bismuth. From 106.6 to 162.0 metres, the Justin stock was intersected; comprised of equigranular biotite granodiorite and porphyritic segregations of quartz monzonite. Clay altered fault zones were observed at 133.9-134.8 and 149.6-150.0 metres; the fault orientations remain unclear at present. Local concentrations of sheeted quartz veins with molybdenite, chalcopyrite, and rare bismuthinite occur within the stock. No significant gold values were returned from these veins. The hole was terminated due to a decrease in sheeted vein density and alteration within the granodiorite intrusion.

JN12014: Azimuth 080º, Inclination – 50º, EOH – 294.0 metres

Hole JN12014 was designed to test the down dip extension of the sheeted vein array observed along the western margin of the Justin fault intersected in JN12012. The hole collared in the calc-silicate skarn and continued in the skarn to a depth of 68.8 metres. A sheeted vein interval intersected at 41.5 metres within the skarn returned 1.8 metres grading 4.88 g/t Au. This interval has been interpreted to be the down dip extension of MMJNR036, a grab sample of sheeted quartz vein material containing visible gold which returned a value of 3.66 g/t Au. As in JN12013, the calc-silicate skarn in JN12014 is host to anomalous concentrations of tungsten from the beginning of the hole to the contact with the Justin stock at a down-hole depth of 72.2 metres. 43 samples from this interval returned values > 100 ppm tungsten with 1 sample > 1000 ppm tungsten. The Justin stock was intersected at 68.8 metres and continued to 217.0 metres. The intrusion displays variably intense kaolinite alteration, which emphasizes large euhedral quartz eyes. Both the kaolinite altered and unaltered biotite granodiorite host sheeted quartz veins. Beginning at 184.4 metres and continuing to 217.0 metres, a zone of sheeted quartz veining was intersected correlating to the zone beginning at 80.6 metres in JN12012. The sheeted quartz veins range in

thickness from 1 – 300 mm, with densities ranging from 1 – 5 per metre. The veins contain pyrite, bismuthinite, scheelite, and visible gold. A 40 mm wide quartz vein at 187.3 metres contained 3 sightings of visible gold, the first documented occurrence of visible gold in drill core on the Justin property. Assays from the sheeted vein interval returned significant results, including: 0.6 metres grading 1.45 g/t Au, 0.3 m grading 1.68 g/t Au, and 0.3 metres grading 4.45 g/t Au. Uncut gold grades from 184.4 to 196.9 metres return 12.5 metres grading 0.40 g/t Au. The granodiorite is abruptly truncated by a fault at 217.0 metres. The fault marks the upper contact of the Justin fault which in JN12014 hosts a faulted block of retrograde skarn. The upper fault contact is marked by a 40 cm interval of clay gouge. From 217.0 to 224.2 metres, brecciated, tan coloured retrograde skarn was intersected. Where brecciated, the retrograde skarn hosts 30-40 cm zones of semi-massive pyrite cement, with trace bismuthinite, sulfosalts, arsenopyrite, sphalerite, and gold. The interval returned 7.5 metres grading 0.94 g/t Au. The lower 50 cm of the interval is comprised of a dark grey to black, sulphide rich clay gouge, marking the lower contact of the fault. The retrograde skarn is interpreted to represent a fault block separating the granodiorite to the west from unaltered fine grained siliclastic and carbonate rocks of the Hyland group to the east. Pierce points in the fault in JN12012 and JN12014 indicate that the Justin fault is steeply dipping to the east. It remains unclear the amount of displacement which has taken place along the Justin fault. The presence of sulphide rich clay gouge suggests that the fault was active post-mineralization. This evidence must be taken into account when targeting future drill holes in the area. From 224.2 metres to 294.0 metres, interbedded siltstone, laminated calcareous siltstone, black limestone and sandstone of the Hyland group were intersected. The sediments are generally unaltered, with only weak calc-silicate alteration of calcareous sediments. As in JN12012, bedding orientations were observed at 10-20 degrees to core axis, and all of the units display both brittle and ductile deformation. Fine grained disseminations of rare pyrite, pyrrhotite, and arsenopyrite mineralization were observed mottling calcareous siltstones from 259.7 to 270.8 metres. The hole was terminated within a massive gritty sandstone, which is unaltered and void of mineralization.



HOLES PLOTTED

TOTAL 3

JN12012 JN12013 JN12014

INTERSECTIONS

- Third Order
- Second Order
- First Order

TOPOGRAPHY

- skarn
- granodiorite
- quartz-feldspar porphyry
- topographic surface
- fault trace

BAR GRAPHS L/R COL RANGE

Au ppb R 1000 500 300 100 0

ROCK CODES	PAT	DESCRIPTION	CODE
Rock Type		calcareous siltstone	CSS
		fault	FLT
		granodiorite	GRD
		hornfels	HFL
		limestone	LST
		lost	LOS
		overburden	OVB
		quartz monzonite	QMZ
		sandstone	SST
		siltstone	SLT
		skarn	SKN
		vein	VEN
		quartz feldspar porphyry	QFP
		retrograde skarn	RSK
		Mineralized Envelope	

SECTION SPECS:

REF. PT. E, N	546567 m	6839440 m
EXTENTS	677.4 m	407.2 m
SECTION TOP, BOT	1480 m	1073 m
TOLERANCE +/-	15 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

AZIMUTH = 90°

N W E S

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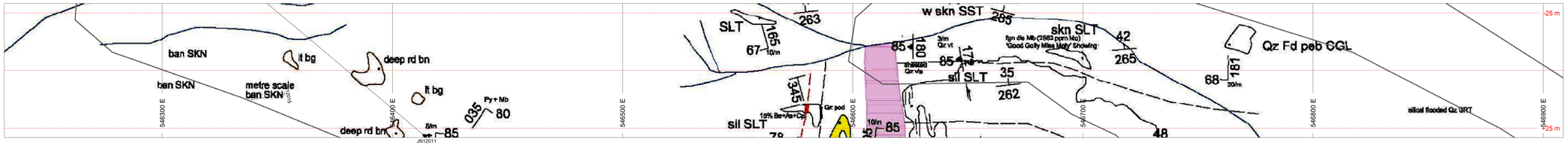
Figure 18 - Section 3

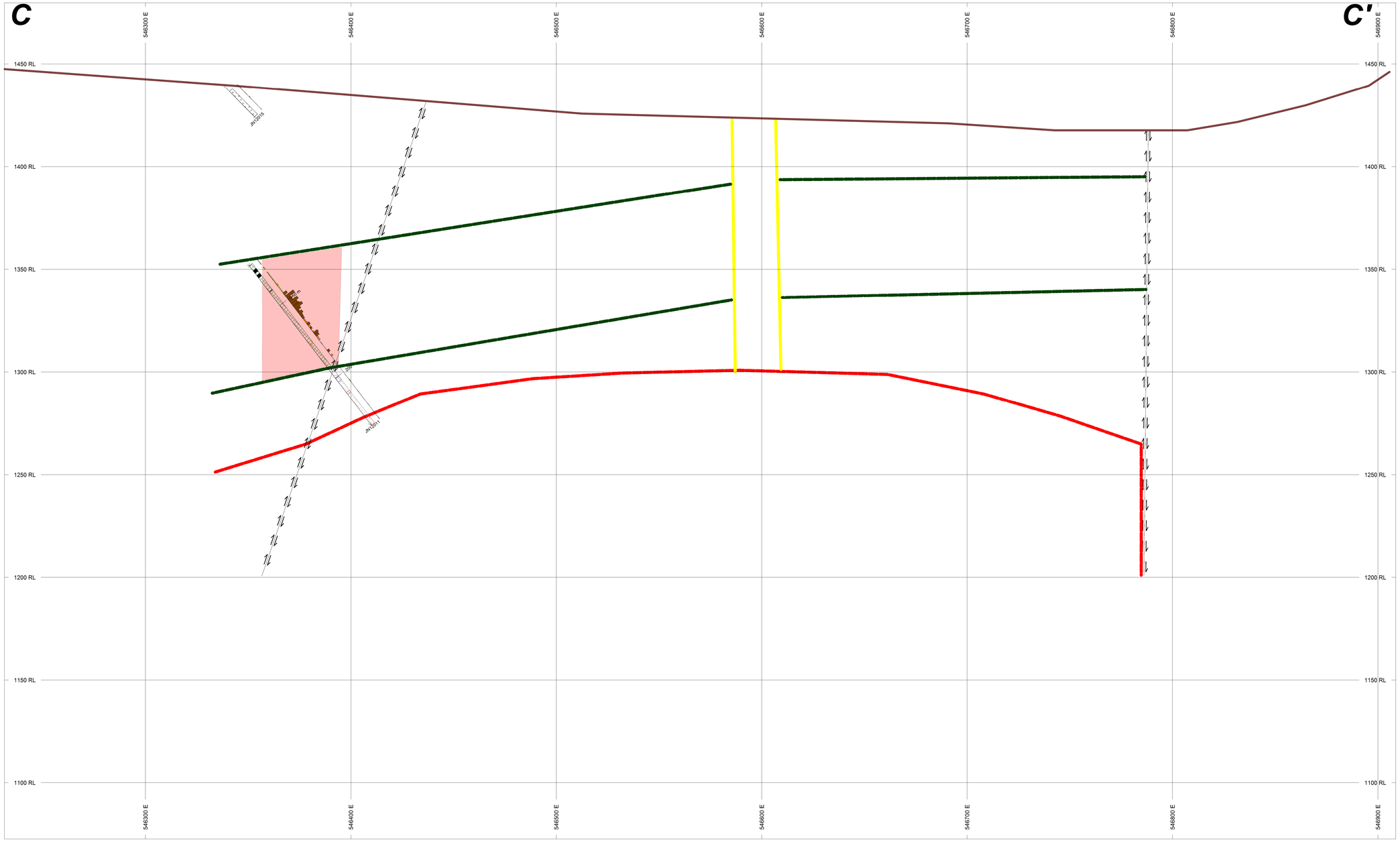
Section 4 – JN12015 (Figure 19)

JN12015: Azimuth 080º, Inclination – 45º, EOH – 21.0 metres

JN12015 was designed to test the strike extension of the massive sulphide replacement of skarn intersected in JN12011. The hole collared in hornfels comprised of quartz pebble conglomerate and siltstone which continued to a depth of 21.0 metres. Sulphide mineralization associated with silicification returned weakly anomalous gold values. The hole was abandoned at a depth of 21.0 metres due to very poor ground conditions and excessive volumes of ground water.







HOLES PLOTTED

TOTAL 2

JN12011 JN12015

INTERSECTIONS

- Third Order
- Second Order
- First Order

TOPOGRAPHY

- skarn
- granodiorite
- quartz-feldspar porphyry
- topography
- fault trace

BAR GRAPHS L/R COL RANGE

Au ppb R

- 1000
- 500
- 300
- 100

ROCK CODES	PAT	DESCRIPTION	CODE
Rock Type		calc-silicate rock	CLS
		calcareous siltstone	CSS
		fault	FLT
		granodiorite	GRD
		hornfels	HFL
		lost	LOS
		massive sulphide	MAS
		overburden	OVB
		quartz pebble conglomerate	QPC
		sandstone	SST
		siltstone	SLT
		skarn	SKN
		vein	VEN
		retrograde skarn	RSK
		semi-massive sulphide	SSX
		Mineralized Envelope	

SECTION SPECS:

REF. PT. E, N	546570 m	6839560 m
EXTENTS	677.4 m	407.2 m
SECTION TOP, BOT	1480 m	1073 m
TOLERANCE +/-	25 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

AZIMUTH = 90°

N W E S

Aben Resources Ltd.

Justin Property

Figure 19 - Section 4

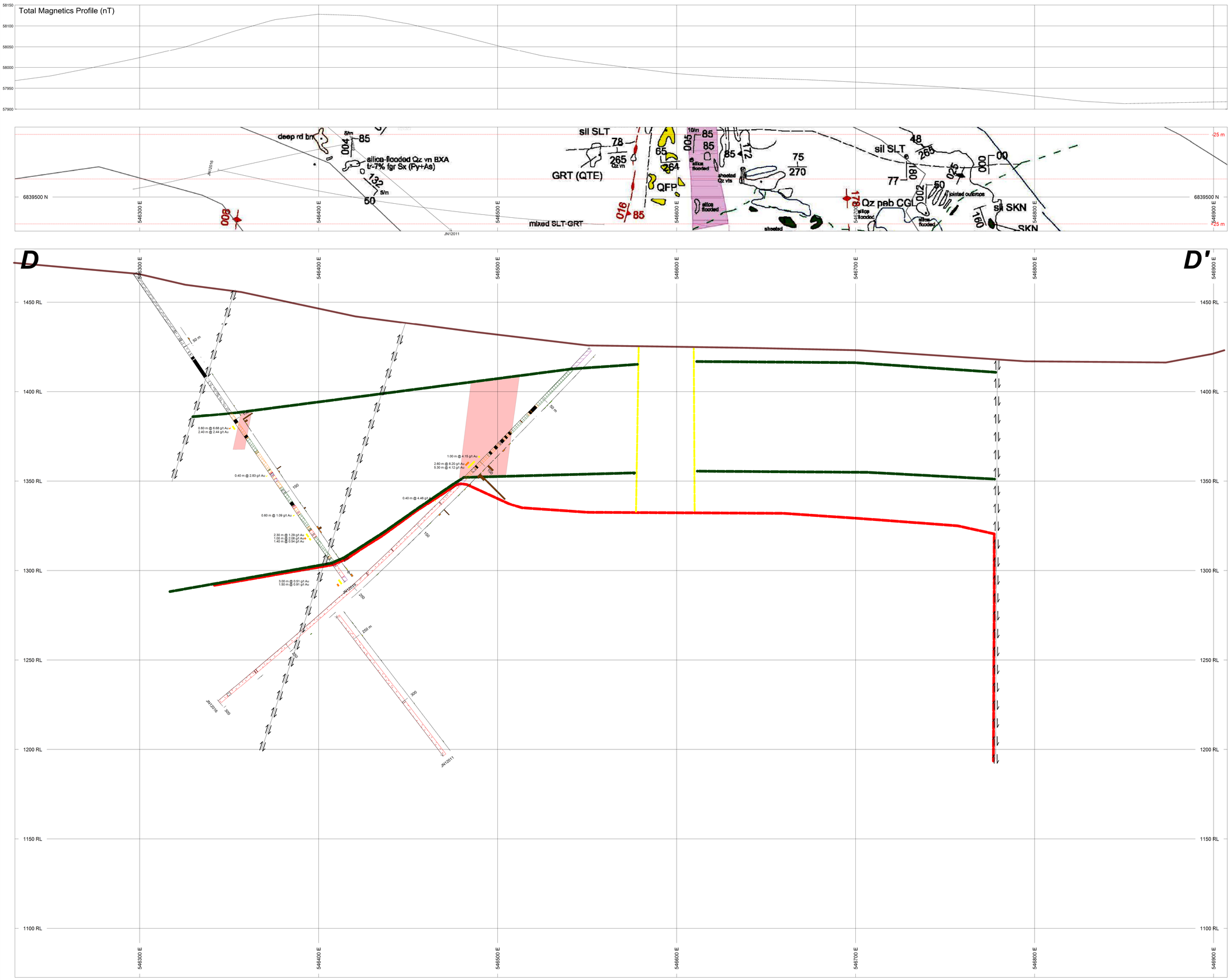
Section 5 – JN12016 (Figure 20)

JN12016: Azimuth 270º, Inclination – 46º, EOH – 300.0 metres

JN12016 was designed to test the potential for skarn hosted mineralization south and up-dip of the zone intersected in JN11009, JN11010, and JN12011. The hole collared in hornfelsed units comprised of quartz pebble conglomerate and siltstone which continued to a depth of 26.2 metres. From 26.2 to 50.6 metres, calc-silicate exoskarn was intersected. Trace amounts of disseminated scheelite occur within the skarn and 4 samples from the interval returned > 100 ppm tungsten. From 50.6 to 112.6 metres, variably veined tan coloured retrograde skarn was intersected. The best vein development occurrs at the base of the retrograde skarn zone. Sheeted veins from 98.0 to 107.3 metres return an uncut gold grade of 2.88 g/t Au over 9.30 metres with 5.3 metres grading 4.12 g/t Au. The veins host pyrite, pyrrhotite, chalcopyrite, bismuthinite, and visible gold. A 0.8 metre sample collected from a depth of 104.7 metres contained two sightings of visible gold and returned an assay value grading 21.20 g/t Au. This is the highest gold assay from drill core reported to date on the Justin property and highlights the potential for structurally hosted high-grade gold. 112.6 metres marks the contact between the retrograde skarn and underlying hornfels, which continued to a depth of 118.4 metres. The hornfels is soapy green to brown in colour and has a banded appearance. The interval is cut by abundant milky white quartz and calcite veins, which returned weakly anomalous gold values. The hornfels is in direct contact with the Justin stock at a depth of 118.4 metres. The stock, a variably clay altered granodiorite, continued to the end of the hole at 300.0 metres. Quartz stockwork and sheeted veining were observed within the granodiorite, as well as 10 – 30 cm intervals of brecciation. The zones of brecciation are infilled by fine grained brownish black biotite and trace black aphanitic tourmaline. Pyrite, molybdenite, arsenopyrite, bismuthinite, scheelite, and sulfosalts were observed in trace amounts within the sheeted quartz veins. Overall samples collected from intervals of sheeted quartz veining returned weakly anomalous gold values, which were concentrated within the upper 20 metres of the intrusion at the contact zone with the overlying retrograde skarn and hornfels. JN12016 was terminated in fresh biotite granodiorite at a depth of 300.0 metres.

JN12019: Azimuth 080º, Inclination – 55º, EOH – 210.0 metres

Hole JN12019 was designed to test the potential of the POW zone skarn 50 metres south of JN12011, which returned 15.0 metres of 3.1 g/t Au. A total of 5 days were spent driving casing to bedrock using HQ coring gear. A boulder field extends from the collar to a depth of 39.5 metres and proved to be very difficult to drill through. Hornfels quartz pebble conglomerate and siltstone were collared into, and continued to a depth of 73.9 metres. A heterolithic breccia containing a graphite and pyrite rich matrix was intersected at a depth of 73.9 metres and continued until 95.4 metres. The breccia is light grey to black in colour, with sub-rounded to angular framework clasts ranging in size from 2 mm up to 100 mm. From 84.2 to 85.7 metres, the breccia has local open space vugs measuring up to 40 mm in diameter. Personal communication with geologist Jo van Randen suggests that the interval looks similar to brecciation associated with turbidite flows observed elsewhere in the Selwyn basin. The graphitic matrix of this rock type is thought to be the source of the very large EM conductor detected by the 2010 airborne geophysics survey. At 95.4 metres, the targeted calc-silicate skarn was intersected and continued to a depth of 198.3 metres. From 95.4 metres to 118.8 metres, the skarn is unusually garnet rich and has undergone extensive oxidation likely from the interaction of meteoric waters. One significant interval of gold mineralization within the oxidized interval returned 2.40 metres grading 2.44 g/t Au, including 0.60 metres grading 6.68 g/t Au. The gold mineralization occurs in association with fine grained bands of magnetite, coarse grained garnet, and epidote. Below the oxidixed garnet rich zone observed at the top of the interval, the skarn grades into the more classic dark green calc-silicate skarn, which in turn has undergone partial retrograde alteration. Difficult drilling conditions encountered at a depth of 156.0 metres forced the drill crew to reduce to NQ size coring gear. This procedure was successful and coring continued through the targeted skarn. Mineralization within the skarn was restricted to the vein hosted type. Several zones of quartz+/- polymetallic veining occurred within the prograde calc-silicate skarn, but returned only weakly anomalous gold values. At present it is not fully understood why such a significant change in the character of the skarn occurred over a horizontal distance of 50 metres. The unusual garnet concentration in the upper portions of the skarn indicate that contact metamorphic temperatures may have been higher in proximity to the Justin stock, and therefore this portion of the skarn may not have been within the favourable temperature regime for precipitating significant concentrations of gold. The base of the calc-silicate skarn is in direct contact with the Justin stock. The granodiorite stock was intersected at a depth of 198.3 and the hole continued along the granodiorite/hornfels contact to a total depth of 210.0 metres. Sheeted quartz veining occurs in the granodiorite, skarn, and hornfels and contains pyrite+/-bismuthinite+/-chalcopyrite+/-scheelite+/-gold. Of significance is the high concentration of tungsten that were reported from the interval. 186.0 to 202.5 metres averaged 927 ppm W with one 0.5 metre sample at 197.8 metres returning 9520 ppm W. This intersection is the highest tungsten concentration reported on the Justin property to date and warrants further evaluation. The hole was terminated for two reasons: 1) the primary skarn type target was intersected and 2) budget constraints. Of particular interest is the last sample of the hole, a 1.5 metre interval from 208.5 to 210.0 containing sheeted quartz veins which returned an assay value of 0.91 g/t Au. This sample may represent the beginning of another gold zone. Assay control from JN12011 and JN12016, which are both relatively close to each other, suggest that gold grades in the immediate area of JN12019 dissipate rapidly at depth within the granodiorite.



HOLES PLOTTED

TOTAL 3

JN12011 JN12016 JN12019

INTERSECTIONS

- Third Order
- Second Order
- First Order

TOPOGRAPHY

- skarn
- granodiorite
- quartz-feldspar porphyry
- topography
- fault trace

BAR GRAPHS L/R COL RANGE

Au ppb R 1000 500 300 100

ROCK CODES	PAT	DESCRIPTION	CODE
Rock Type		calc-silicate rock	CLS
		calcareous siltstone	CSS
		fault	FLT
		granodiorite	GRD
		hornfels	HFL
		lost	LOS
		massive sulphide	MAS
		overburden	OVB
		quartz pebble conglomerate	QPC
		sandstone	SST
		siltstone	SLT
		skarn	SKN
		vein	VEN
		retrograde skarn	RSK
		semi-massive sulphide	SSX
		Mineralized Envelope	

SECTION SPECS:

REF. PT. E, N	546569 m	6839510 m
EXTENTS	677.4 m	407.2 m
SECTION TOP, BOT	1480 m	1073 m
TOLERANCE +/-	25 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

AZIMUTH = 90°

N W E S

Aben Resources Ltd.

Justin Property

Figure 20 - Section 5

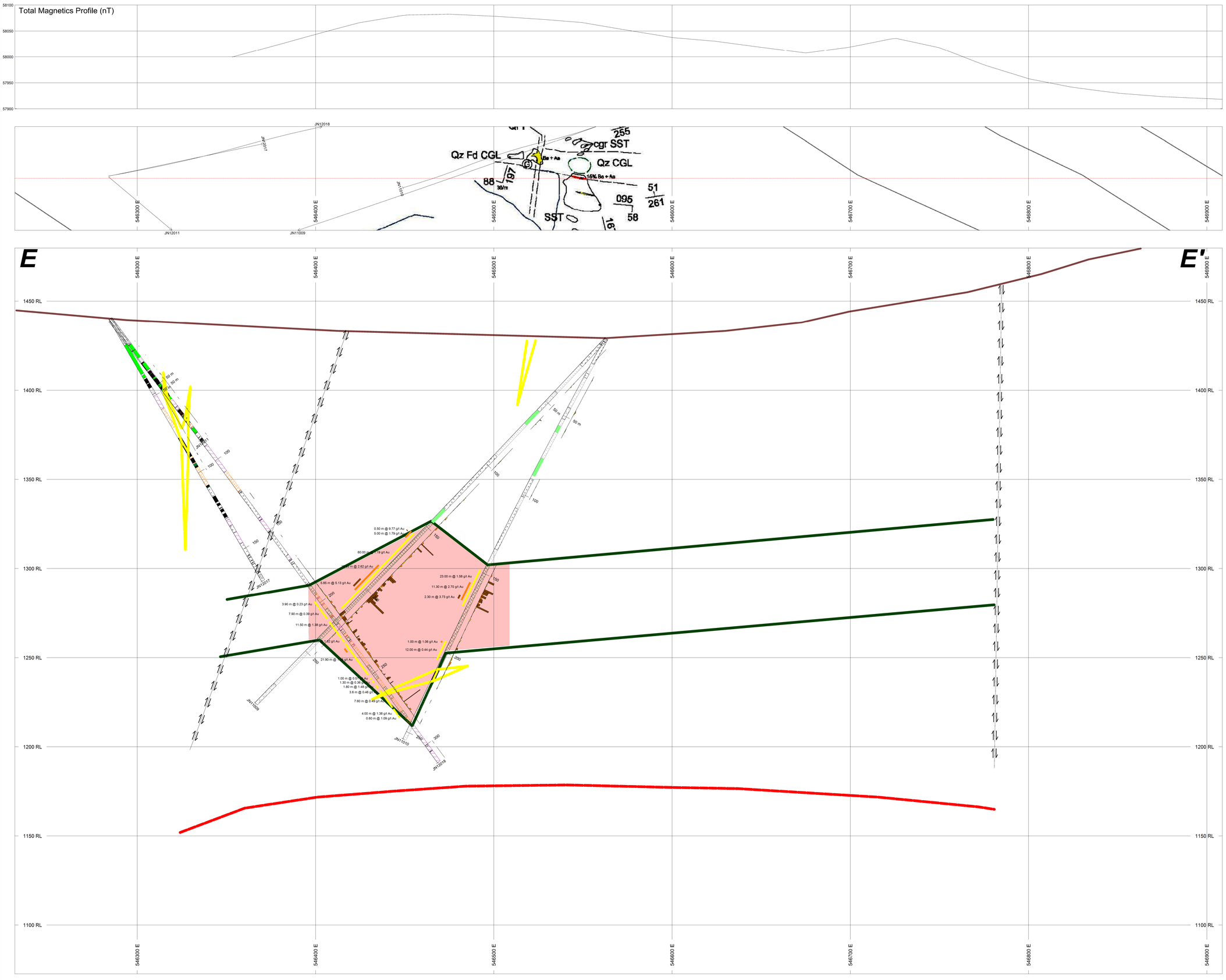
Section 6 – JN12017, JN12018 (Figure 21)

JN12017: Azimuth 080º, Inclination – 60º, EOH – 171.0 metres

Hole JN12017 was designed to test the potential for skarn hosted mineralization 50 metres north of JN11009 and JN11010. The hole intersected a thick sequence of interbedded siltstone, calcareous siltstone, banded skarn, quartz pebble conglomerate, and hornfels. A granodiorite dyke cross-cuts one of the banded skarn units from 71.0 to 77.4 metres and a quartz-feldspar porphyry dyke cross-cuts the sediments from 79.4 to 88.5 metres. The hole encountered very difficult drilling conditions at a depth of 171.0 metres and was abandoned due to a mechanical failure of the down-hole drilling components.

JN12018: Azimuth 080º, Inclination – 53º, EOH – 312.0 metres

This hole was designed to test the potential for skarn hosted mineralization 50 metres north of JN11009 and JN11010. JN12018 was a twinning of JN12017, at a shallower inclination using HQ coring gear. The hole intersected a thick sequence of interbedded siltstone, calcareous siltstone, banded skarn, quartz pebble conglomerate, and hornfels to a depth of 188.4 metres. A swarm of quartz-feldspar porphyry and granodiorite dykes cross-cut both skarn and banded skarn units from 51.5 to 73.9 metres. This suite of intrusive rocks marks the westernmost extent of the dykes observed in the POW zone. Highly anomalous moylbdenite assays were returned from skarn adjacent to the dyke swarm with assays from one 0.4 metre sample at 66.0 metres returning 3610 ppm Mo. The primary calc-silicate skarn target was intercepted at a depth of 188.4 metres and continued to a depth of 286.8 metres. As in JN12011, the skarn is host to several different styles of mineralization and related alteration generated through at least three pulses of hydrothermal activity. The first stage of mineralization occurred as magnetite+/-pyrrhotite+/- bismuthinite+/- gold replacement of the garnet-calc-silicate skarn along bedding planes and as massive replacements. The second stage of mineralization occurred as silica flooding overprinting the skarn, where magnetite is partially to completely replaced by pyrite+/-chalcopyrite+/-bismuthinite+/-gold+/-sulfosalts. The most consistent gold grades occur with this second stage of mineralization. Gold mineralization can be cryptic where sulphide replacement is not evident. Potential indicators for cryptic gold mineralization are: pervasive silicification, chlorite alteration envelopes of garnet within the skarn and trace concentrations of very fine grained, fracture controlled bismuthinite. The third stage of mineralization occurred as sheeted vein development, with mm scale veins reaching densities of 50 veins per metre in well developed structural zones. These veins contain pyrite+/-pyrrhotite+/-bismuthinite+/-chalcopyrite+/-scheelite+/-molybdenite+/-gold. A significant portion of the skarn has undergone retrograde alteration as described above. Overall the skarn horizon did return significant gold and copper results and successfully extended the POW zone 50 metres to the north. An uncut gold grade across the interval returned 88.5 metres grading 0.73 g/t Au. Higher grade intersections from the skarn include 11.5 metres grading 1.38 g/t Au and 21.9 metres grading 1.06 g/t Au. Of particular interest was a 2.6 metre interval from 229.1 to 231.7 which returned 0.79 g/t Au and 1.88 % Cu, including 0.9 metres grading 1.18 g/t Au and 3.56 % Cu. These are the highest copper assays documented on the property to date and may represent a zonation within the metallogenic system. A quartz-feldspar porphyry dyke cross-cuts the skarn from a down-hole depth of 262.6 to 264.4 metres. The porphyry dyke is in turn cross cut by auriferous sheeted quartz veins providing some time constraints on the emplacement of the dyke versus the sheeted veining event. Hornfels quartz pebble conglomerate and siltstone was intersected below the skarn and continued to a depth of 312.0 metres, where the hole was terminated. The strong silicification of the quartz pebble conglomerate indicates that the hornfelsed sediments are proximal to the Justin stock.



HOLES PLOTTED

TOTAL 5

JN11009 JN11010 JN12011 JN12017 JN12018

INTERSECTIONS

- Third Order
- Second Order
- First Order

TOPOGRAPHY

- skarn
- granodiorite
- quartz-feldspar porphyry
- topography
- fault trace

BAR GRAPHS L/R COL RANGE

Au ppb R

- 1000
- 500
- 300
- 100

ROCK CODES	PAT	DESCRIPTION	CODE
Rock Type		calc-silicate rock	CLS
		calcareous siltstone	CSS
		fault	FLT
		granodiorite	GRD
		hornfels	HFL
		lost	LOS
		massive sulphide	MAS
		overburden	OVB
		quartz pebble conglomerate	QPC
		sandstone	SST
		siltstone	SLT
		skarn	SKN
		vein	VEN
		retrograde skarn	RSK
		semi-massive sulphide	SSX
		Mineralized Envelope	

SECTION SPECS:

REF. PT. E, N	546570 m	6839640 m
EXTENTS	677.4 m	407.2 m
SECTION TOP, BOT	1480 m	1073 m
TOLERANCE +/-	42.8 m	

SCALE 1 : 1000

(m)

-10 0 10 20 30 40

*unknown

AZIMUTH = 90°

N W E S

Aben Resources Ltd.

Justin Property

Figure 21 - Section 6

CONCLUSIONS

The Justin property hosts Au-Cu-W skarns, auriferous sheeted quartz veins, and auriferous vein-breccia systems which all correlate to an intrusion related gold system (IRGS). The property is underlain by sedimentary rocks assigned to the Yusezyu Formation, the older of the two formations comprising the Upper Proterozoic to Lower Cambrian Hyland Group, and by sedimentary rocks assigned to the Cambrian-Ordovician Rabbitkettle Formation. These sediments are intruded by the Justin stock: a granodiorite to quartz monzonite pluton and a suite of related dykes interpreted to be mid-Cretaceous in age.

The primary objective of the 2012 exploration program was to determine the potential for an economic gold deposit at the POW zone and included geological mapping, ground based geophysics, geochemical surveying, and diamond drilling.

The 2012 program on the Justin Property was very successful in identifying gold +/-tungsten+/- copper mineralization at the POW zone. Highlights from the diamond drilling program returned assays up to 46.6 metres grading 1.49 g/t Au, including15.0 metres grading 3.08 g/t Au in JN12011; 5.3 metres grading 4.12 g/t Au in JN12016; and 21.9 metres grading 1.06 g/t Au in JN12018.

Mapping and prospecting of the POW zone led to the expansion of its known dimensions at least 450 metres east and 200 metres north of the original 2010 discovery. Grab samples obtained from sheeted veins in the POW zone returned values grading up to 22.20 g/t Au (Sample MMJNR041); chip samples returned values grading up to 4.74 g/t Au over 2.0 metres (Sample LJJNR002). Visible gold was observed for the first time on the Justin property, identified in quartz veins found in outcrop and in later in drill core.

Soil sampling outlined a 450-metre zone of elevated Au values in soil (10 – 290 ppb) from JNL016 1500 E to 1950 E. These are the highest gold in soil assay values discovered on the property to date. They correlate with the southern extension of the Justin fault, which is the primary structural control on distribution of gold mineralization at the POW and Main zones. Further prospecting and mapping is recommended to follow up on this high priority geochemical anomaly.

A ground based magnetic geophysical survey was completed to the immediate northwest of the POW zone. The survey was successful in confirming the magnetic response of the POW zone skarn and delineating the NW extension of the zone.

In summary, the Justin Property has several key features which highlight its potential to host an economic intrusion related gold deposit:

- The Justin property hosts multiple styles of gold mineralization all of which are consistent with an IRGS.
- Auriferous skarns and sheeted veins are preferentially developed within the contact aureole of a partially unroofed pluton.
- Gold mineralization on the property is directly related to bismuth; the presence of bismuth can be utilized as a confident indicator for the potential of increasing gold grade.
- At the POW zone, the north trending extensional architecture comprising the Justin Fault has played an integral role in developing permeability within lithologic units allowing for the emanation of metalliferous hydrothermal fluids from the Justin stock.
- There is great potential to explore for cupola zones of the partially unroofed Justin stock within the Justin Fault system, often the most prospective target in an IRGS.

RECOMMENDATIONS

Further exploration work is strongly recommended on the Justin property with a focus on expanding the POW zone and assessing the remainder of the property for gold mineralization potential, including, but not limited to the following items:

- Phase I
  - Data compilation which would include:
    1. Consolidation and production of a complete property geologic map
    2. Sourcing original assay certificates from historic property vendors and compiling all of the assay data into a centralized database
  - Geologic modeling which would include:
    1. 3-D modeling of the POW zone to generate a tool for visualizing geology, mineralization, alteration, and structure
    2. 3-D inversion modeling of the complete total magnetic dataset for the Justin and VF properties to delineate both magnetically high skarn zones and the magnetically low features associated with the Justin stock
    3. Age dating of the Justin stock
  - Geochemical modeling which would include:
    1. Statistical analysis of complete geochemical dataset
    2. Modeling of trace element geochemistry across the property to determine primary versus secondary sources of metal ions
    3. Generate a list of targets to prospect ranked by their trace element geochemistry
  - Exploration methodology research for Intrusion Related Gold Systems
- Phase II
  - Property scale geologic mapping and prospecting with a focus on under explored areas of the property
  - Trenching of high priority targets in the POW zone to delineate near surface gold mineralization
  - Trenching of high priority soil target on JNL016 to determine the source of the gold anomaly
  - Follow-up sampling of the Magneto and Big Swifty showings to evaluate the potential for gold mineralization
  - Regional silt sample program east of the Justin property to explore for undiscovered mineralization occurrences
  - Mapping and prospecting of the VF property
- Phase III
  - Diamond drilling of high priority targets generated in the POW zone to test for near surface mineralization
  - Diamond drilling targeting cupola zones of the Justin stock southeast and southwest of the POW zone
  - Diamond drilling targeting prospective skarn horizons and structural zones identified through field work

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2012 Diamond Drilling, Geological, Geophysics and Geochemical Report

for the

Justin Property and VF Property

Volume II

Appendix I – Statement of Qualifications

Appendix II – Statement of Expenditures

Appendix III – Geochemical Protocol

Appendix IV – Diamond Drill Logs

Justin 1-4 (YB59913 – YB59916), Justin 5-25 (YB70809 - YB70829), SP 1-50 (YC73232 – YC73281), SP51-55 (YD65452 – YD65456), SP 57-88 (YD87903 – YD87933), SP 89-207 (YF33001 – YF33119)

VF 1-144 (YD25701-YD25844)

Watson Lake Mining District, Southeastern Yukon Territory

Map sheet 105-H-09

Latitude 61° 42' N, Longitude 128°10'W

Prepared for:

Aben Resources Ltd.

Suite 2230 – 885 West Georgia Street

Vancouver, BC, Canada

V6C 3E8

By

Mike McCuaig, B.Sc

TerraLogic Exploration Inc.

Suite 200, 44-12th Ave S.

Cranbrook, B.C., Canada

V1C 2R7

February 15th, 2013

APPENDIX I

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Michael A. McCuaig, B. Sc. Do hereby certify that:

I am currently employed as a Geologist, with TerraLogic Exploration Inc. with business address: Suite 200, 44-12th Avenue South, Cranbrook, BC, V1C 2R7.

I graduated with a Bachelor of Science Degree from St. Francis Xavier University in 2003.

I have worked as a geologist for six years since my graduation from university.

I supervised the 2012 exploration program on the Justin property and VF property.

This report is supported by diamond drill data and samples collected during fieldwork on the Justin property and VF property in the Watson Lake Mining District, YK, NTS 105H09 and, during the period June to October, 2012.

I have authored this assessment report titled "2012 Diamond Drilling, Geological, Geophysics, and Geochemical Report on the Justin Property and VF Property" and dated February 15th, 2013 to the exploration program conducted by Aben Resources Ltd.

I am a full time employee with TerraLogic Exploration Inc. since June 1st, 2011 and currently hold no shares of Aben Resources Ltd.

Dated this 15th day of February 2013, in Cranbrook, British Columbia.

Michael A. McCuaig

APPENDIX II

Statement of Expenditures

Justin Project 01/09/2012 - 30/09/2012				
Diamond Drilling	**Quartz Claim Numbers: SP51 - SP55 (YD65452 - YD65456)**			
Personnel / Position	**Field Days**	**Days**	**Rate**	**Subtotal**
Ryan Schmidt/ Geotech	14/09/2012 - 29/09/2012	**15.00**	**$390.00**	$5,850.00
TOTAL Expenditures				**$5,850.00**

Justin Project 01/01/2012 - 27/08/2012				
Geochemical Surveys, Geophysics Surveys, Diamond Drilling	**Quartz Claim Numbers: SP168 - SP207 (YF33080 - YF33119)**			
Personnel / Position	**Field Days**	**Days**	**Rate**	**Subtotal**
Mike McCuaig/Geologist - Project Manager	21/07/2012 - 20/08/2012	**31.00**	**$525.00**	$16,275.00
Jo van Randen/ Project Geologist	11/07/2012 - 18/08/2012	**39.00**	**$800.00**	$31,200.00
Rick Zuran/ Project Geologist	11/07/2012 - 3/08/2012	**24.50**	**$800.00**	$19,600.00
Jason Kolcun/ GIS Specialist, Geotech	15/07/2012 - 4/08/2012	**21.00**	**$425.00**	$8,925.00
Desarae Craig/ Jr. Geologist	21/07/2012 - 18/08/2012	**24.00**	**$425.00**	$10,200.00
James Magun Jr./ Geotech	17/08/2012 - 19/08/2012	**31.00**	**$375.00**	$11,625.00
Lewis Jones/ Geologist	15/07/2012 - 04/08/2012	**23.00**	**$450.00**	$10,350.00
Jennifer Forbes/ Cook - OFA Level 3	11/07/2012 - 20/08/2012	**41.00**	**$525.00**	$21,525.00
Chris Gallagher/GIS Specialist	01/08/2012 - 05/08/2012	**5.63**	**$725.00**	$4,081.75
				$133,781.75
TOTAL Expenditures				**$133,781.75**

Justin Project 01/01/2012 - 27/08/2012				
Diamond Drilling	**Quartz Claim Numbers: SP51 to SP55 (YD65452 to YD65456)**			
Personnel/ Position	**Field Days**	**Days**	**Rate**	**Subtotal**
Jesse Campbell/ President	07/07/2012 - 09/07/2012	**3.27**	**$725.00**	$2,370.75
TOTAL Expenditures				**$2,370.75**

VF Project 03/01/2012 - 10/18/2012				
Geochemical Surveys	**Quartz Claim Numbers: VF1 -VF144 (YD25701-YD25844**			
Personnel/ Position	**Field Days**	**Days**	**Rate**	**Subtotal**
Mike McCuaig/Project Geologist	July 13th-16th, 2012	**3.5**	**$ 525.00**	**$ 1,837.50**
Transportation		**Hours**	**Rate/Hr**	**Subtotal**
Helicopter - Fireweed Helicopters Long Ranger 3		**8.0**	**$ 1,275.00**	**$ 10,200.00**
Fuel		**8.0**	**$ 299.00**	**$ 2,392.00**
TOTAL Expenditures				**$14,429.50**

APPENDIX III

Geochemical Protocol

Appendix 3.1 – Geochemistry – DDH Sampling Techniques

Core Logging: Daily visits to the drill occurred at shift change, 7:00 am and 7:00 pm respectively. This was done to ensure that the drill core and footage markers were being placed in the box correctly, and that the drill core was free from grease and other drill additives.

1. Core boxes were loaded into a metal basket for storage immediately after being filled on the drill platform. At each cross-shift the core boxes were secured with wooden lids, rubber bands, and ratchet straps. It was then flown to the Justin base camp located at the main zone mineral occurrence.
2. TerraLogic crew members received the basket of core from the helicopter. Each box was taken from the basket and placed on wooden skids in sequence. The lowest box number was placed on the skids first, and then the rest follow in order. The rubber bands and core box lids were then loaded back into the basket, secured with the ratchet strap and returned to the property.
3. Once all of the boxes are laid out, the core boxes and blocks are checked making sure that everything has been properly recorded, and that nothing is missing.
4. A summary log is taken for the following geologic features: Alteration, Lithology, and Mineralization. The information is used to provide quick daily updates of drilling activities.
5. The core boxes remain on the wooden skids until they are transferred into the core shack for logging and sampling.
6. The core logging shack could accommodate a total of 14, four foot core boxes at any one time for logging. The boxes were placed on wooden benches which were constructed on site.
7. Once the core was laid out on the bench, geotechnical procedures began. In summary these procedures include:
    - Cleaning the core of any unwanted dirt, grease, or other drill additives.
    - Converting footage markers to metric, each footage marker had the corresponding meterage written on the flip side of the marker. Brackets were drawn on either side of the block, on the margin of the box so that if the block was accidently moved it could be placed back in its original position.
    - Using the converted measurements on the blocks one-meter intervals were marked on the drill core using a grease pencil. During this process the “start” and “finish” meterage was written at the top left and bottom right of each box using a permanent marker and/or a carpenter’s pencil.
    - Core recovery intervals are calculated for each run of core. This process involves measuring of the drill core. Beginning at the start of the run the geotechnician measures each piece of core moving down the hole until the end of the run. This cumulative measurement is recorded in a palm pilot. The recovery percentage is then calculated in the palm pilot. The recovered drill core is expressed as the percentage of core recovered with respect to the length of the interval stated between the meterage blocks. Each run has the recovery written on the margin of the box above the end block for the run.
    - A metal tag was affixed to the left hand end of each box. The hole number, box number, and meterage interval was written on each tag (eg. JN12011 Box 1 3.05

m – 7.90 m). All of this information was recorded by hand in a notebook, and kept as a reference guide for organizing core photographs.

8. Upon completion of the geotechnical procedure sample layout and core logging was initiated. In summary these procedures include:
    - Sample layout was completed by a project geologist. The drill hole was sampled at the discretion of the geologist. Sample intervals were marked on the core using a red grease pencil. Sample intervals were marked out, the corresponding meterage written at the beginning of each interval in red grease pencil. Modification of sample intervals from the one meter standard was necessary to allow for changes in lithology, alteration, veining, and mineralization. Sample intervals had a minimum width of 0.30 meters, and a maximum width of 1.40 meters, . Above the beginning of each sample interval a metal sample tag was affixed to the box. The left hand edge of every sample tag was aligned with the beginning of the sample interval. On each sample tag the sample number, and sample interval meterage was written as follows (JN12011-001 100.00 m – 101.00 m). The sample tag number, and sample interval from/to meterage was recorded digitally in the palm pilot. The total recovered length of each sample interval was measured, and digitally recorded in the palm pilot.
    - Core logging was completed by Jo van Randen, a project geologist working with TerraLogic Exploration Inc.. All core logging was recorded into an Access Database designed by TerraLogic Exploration Inc. All aspects of geological information are recorded into the data base under the following table headings: alteration, brecciation, lithology, mineralization, structure, shearing, veining, and vein intervals.
9. Upon completion of sample layout and core logging the drill core was taken out of the core shack and stacked in order. The core was then photographed two boxes at a time, in order down hole. Core remained stacked outside the logging tent awaiting sampling.

Core Sampling: Sampling/core splitting was carried out using a conventional rock saw. The sampling geotechnician began sampling at the beginning of each sample interval, and continued sequentially until the bottom of the hole. The core sampling procedure is as follows:

1. Upon bringing the core box inside the core logging/splitting tent, the geotech writes out seven sample tags on orange flagging tape, and labels seven plastic poly sample bags on both sides with the sample number. The tech then places each sample flagging tag in the corresponding sample poly bag. The bags are then organized sequentially and placed next to the core splitting station.
2. The geotech was instructed to saw each sample in half such that the rock sample in the bag, and the box shared equal representation of mineralization. This was done based on visual inspection of the core, and estimating the best split of mineral distribution.
3. The core is then placed into the rock saw such that the blade splits the rock in half along the line of sight selected by the geotech.
4. Once broken half of the sample is placed in the sample bag, and the other piece is returned to the box in the correct order and orientation.
5. After splitting the entire interval the core saw is brushed clean. All of the fine material created during the sawing process is collected in trays below the saw and disposed of on site.
6. The sample bag is then sealed using plastic zap straps, and placed into a white rice bag. The sample number, sample date, and rice bag number are then recorded by hand in a sample log. These written documents are kept to update sample shipment records.
7. The above procedure is repeated seven times. Upon completion of the seventh sample the geotech double checks that all samples in the rice bag match the correct sample intervals outlined in the boxes. In addition the geotech double checks that each sample in the bag corresponds to the information written in the sample log. If all samples and documentation pass the quality control check then the rice bag is sealed with a plastic zip tie.
8. The above procedure was repeated for all sampling of Justin 2012 drill core.
9. As each rice bag is completed they are lined up in order, beginning with bag # 1 awaiting shipment.
10. QAQC samples were inserted into the sample sequence by the project geologist. Standard gold-silver reference ores were included in the sample sequence every 20^{th} sample. Blank reference material was included in the sample sequence every 20^{th} sample. Standard samples have the following nomenclature JN12012-020S, JN12012-040S, etc. Blank samples have the following nomenclature: JN12012-040B, JN12012-060B, etc. Both standard and blank samples were packaged in the same fashion as drill core samples. A duplicate sample was inserted into the sample sequence every 30^{th} sample. Duplicate samples had the following nomenclature: JN12012-030D. An empty bag with the duplicate sample number written on the bag was inserted into the sample sequence. ALS

Minerals was instructed to take a 500 g resplit of the coarse reject sample for all samples in each shipment ending in the suffix “D”.

Figure 1 – Geotechnical data collection station set up outside of the main core logging facility



Figure 2 – Inside the core logging facility



Figure 3 – Rock saw sampling station



Figure 4 – Drill core ready to be sampled was stored inside the sampling building



Figure 5 – Once sampled the drill core is stored in core racks which are sealed to prevent damage and tampering.



Appendix 3.2 – Geochemistry – Field Sampling Techniques

Field Sampling Techniques

Rock samples were collected in the field by placing 1-2 kg of material in heavy grade plastic sample bag with the sample number written on both sides in permanent marker. Each sample bag was then sealed with a plastic cable tie and samples were transported back to camp at the end of each day. A representative piece of each sample was often collected and returned to camp for further examination in the event of an interesting or exceptional analytical result.

Conventional soil samples were collected from the B-horizon wherever possible. Silt samples were collected from active creeks whenever possible. Both soil and silt samples were placed and sealed into brown paper kraft bags. Samples were dried in the field daily using the generator shack located at the base camp. Relevant details pertaining to the soil and silt samples such as location parameters, depth, horizon, quality, were recorded by the sampler in the field.

Sample sites were marked in the field with orange arctic-grade biodegradable flagging tape and an aluminum tag. Both the flagging and the tag have been marked with the appropriate sample number. Sample locations were determined by hand-held GPS set to report locations in UTM coordinates using the North American datum established in 1983 (NAD 83).

All surface geochemical samples were collected by company geologists or sampling technicians trained by TerraLogic Exploration staff. At the end of each day samples were organized, dried and catalogue. Once the samples were dried they were then placed in poly woven “rice” bags. The samples were maintained as a single group before being taken and dropped off at the ALS Minerals Prep lab in Whitehorse.

Appendix 3.3 – Geochemistry – Analytical Techniques

GEOCHEMISTRY – ANALYTICAL TECHNIQUES

All samples were sent to ALS Minerals Laboratories after ALS merged with Stewart Group Labs. The ALS samples were processed by their lab in Vancouver, British Columbia, Canada. All samples were collected, handled, cataloged and prepared for shipment by TerraLogic Exploration staff. Descriptions of analytical techniques are described below.

ALS Chemex

Sample Preparation Package – PREP-31
Standard Sample Preparation: Dry, Crush, Split and Pulverize

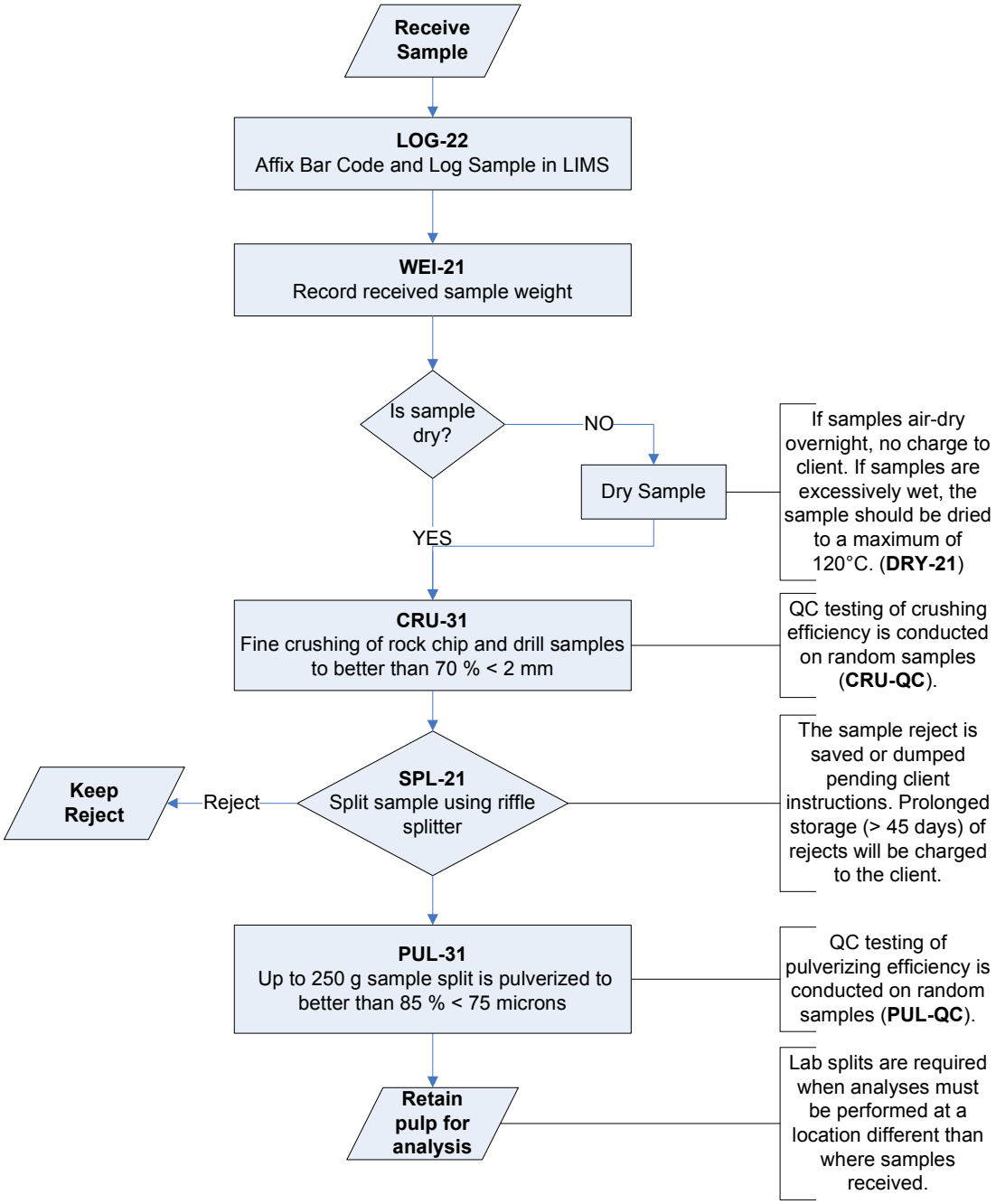
Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

The sample is logged in the tracking system, weighed, dried and finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen. A split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen. This method is appropriate for rock chip or drill samples.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
CRU-31	Fine crushing of rock chip and drill samples to better than 70 % of the sample passing 2 mm.
SPL-21	Split sample using riffle splitter.
PUL-31	A sample split of up to 250 g is pulverized to better than 85 % of the sample passing 75 microns.

ALS Chemex

Flow Chart - Sample Preparation Package – PREP-31
Standard Sample Preparation: Dry, Crush, Split and Pulverize



Logging Samples Received as Pulps

All pulp samples received at ALS Chemex are furnished with a bar code label attached to the original sample bag. The system will also accept client supplied bar coded labels that are attached to sampling bags in the field. The label is scanned and the weight of the sample is recorded together with additional information such as date, time, equipment used and operator name. The scanning procedure is used for each subsequent activity involving the sample from preparation to analysis, through to storage or disposal of the pulp.

At least one out of every 50 samples is selected at random for routine pulp QC tests (LOG-QC). For routine pulps, the specification is 85 % passing a 75 micron screen. Other specifications may be checked as per client requirements.

Method Code	Specifications	Description
LOG-23	85 % < 75 ☐m	Log received sample pulp in tracking system (Sample pulps received with bar code labels attached).
LOG-24	85 % < 75 ☐m	Log received sample pulp in tracking system (Sample pulps received without bar code labels attached).
LOG-25	95 % < 106 ☐m	Log received sample pulp in tracking system (Sample pulps received with bar code labels attached).
LOG-26	95 % < 106 ☐m	Log received sample pulp in tracking system (Sample pulps received without bar code labels attached).
LOG-QC	See method specifications	Testing Procedure for samples received as pulp.

ALS Chemex

Geochemical Procedure - ME-ICP41
Trace Level Methods Using Conventional ICP-AES Analysis

Sample Decomposition: Nitric Aqua Regia Digestion (GEO-AR01)
Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample is digested with aqua regia in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 mL with deionized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

NOTE: In the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte.

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Silver	Ag	ppm	0.2	100	Ag-OG46
Aluminum	Al	%	0.01	25	
Arsenic	As	ppm	2	10000	
Boron	B	ppm	10	10000	
Barium	Ba	ppm	10	10000	
Beryllium	Be	ppm	0.5	1000	
Bismuth	Bi	ppm	2	10000	
Calcium	Ca	%	0.01	25	
Cadmium	Cd	ppm	0.5	1000	
Cobalt	Co	ppm	1	10000	
Chromium	Cr	ppm	1	10000	
Copper	Cu	ppm	1	10000	Cu-OG46
Iron	Fe	%	0.01	50	

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Gallium	Ga	ppm	10	10000	
Mercury	Hg	ppm	1	10000	
Potassium	K	%	0.01	10	
Lanthanum	La	ppm	10	10000	
Magnesium	Mg	%	0.01	25	
Manganese	Mn	ppm	5	50000	
Molybdenum	Mo	ppm	1	10000	
Sodium	Na	%	0.01	10	
Nickel	Ni	ppm	1	10000	
Phosphorus	P	ppm	10	10000	
Lead	Pb	ppm	2	10000	Pb-OG46
Sulfur	S	%	0.01	10	
Antimony	Sb	ppm	2	10000	
Scandium	Sc	ppm	1	10000	
Strontium	Sr	ppm	1	10000	
Thorium	Th	ppm	20	10000	
Titanium	Ti	%	0.01	10	
Thallium	Tl	ppm	10	10000	
Uranium	U	ppm	10	10000	
Vanadium	V	ppm	1	10000	
Tungsten	W	ppm	10	10000	
Zinc	Zn	ppm	2	10000	Zn-OG46

Elements listed below are available upon request

Element	Symbol	Units	Lower Limit	Upper Limit	Default Overlimit Method
Cerium	Ce	ppm	10	10000	
Hafnium	Hf	ppm	10	10000	
Indium	In	ppm	10	10000	
Lithium	Li	ppm	10	10000	
Niobium	Nb	ppm	10	10000	
Rubidium	Rb	ppm	10	10000	
Selenium	Se	ppm	10	10000	
Silicon	Si	ppm	10	10000	
Tin	Sn	ppm	10	10000	
Tantalum	Ta	ppm	10	10000	
Tellurium	Te	ppm	10	10000	
Yttrium	Y	ppm	10	10000	
Zirconium	Zr	ppm	5	10000	



Geochemical Procedure

Au-ST43/44
Determination of ultra-trace level gold by Aqua Regia

Sample Decomposition:

Gold aqua regia digestion (GEO-AUAR01/02)

Analytical Method:

Inductively Couple Plasma – Mass Spectrometry (ICP-MS)

Finely pulverised sample is digested in aqua regia. The gold in solution is determined by ICP-MS.

Samples containing high sulfides or carbon may lead to low gold recoveries unless they are roasted prior to digestion.

Method Code	Symbol	Units	Mass	Lower Limit	Upper Limit
Au-ST43	Au	ppm	25 g	0.0001	0.1
Au-ST44	Au	ppm	50 g	0.0001	0.1



Assay Procedure

ME-OG46
Ore Grade Elements by Aqua Regia Digestion Using Conventional ICP-AES Analysis

Sample Decomposition:

HNO_3-HCl Digestion (ASY-AR01)

Analytical Method:

Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)*

Assays for the evaluation of ores and high-grade materials are optimized for accuracy and precision at high concentrations. Ultra high concentration samples (> 15 -20%) may require the use of methods such as titrimetric and gravimetric analysis, in order to achieve maximum accuracy.

A prepared sample (0.4 g) is digested with concentrated nitric acid for 90 minutes in a graphite heating block. The resulting solution is diluted with concentrated hydrochloric acid before cooling to room temperature. The samples are diluted in a volumetric flask (100 or 250) mL with demineralized water and analysed using atomic absorption spectrometry.

*__NOTE__: ICP-AES is the default finish technique for ME-OG46. However, under some conditions and at the discretion of the laboratory an AA finish may be substituted.

Element	Symbol	Units	Lower Limit	Upper Limit
Silver	Ag	ppm	1	1500
Arsenic	As	%	0.01	30
Cadmium	Cd	%	0.001	10
Cobalt	Co	%	0.001	20
Copper	Cu	%	0.001	40
Iron	Fe	%	0.01	100
Manganese	Mn	%	0.01	50
Molybdenum	Mo	%	0.001	10
Nickel	Ni	%	0.001	10
Lead	Pb	%	0.001	20
Zinc	Zn	%	0.001	30

Au- AA23 & Au- AA24
Fire Assay Fusion, AAS Finish

Sample Decomposition:

Fire Assay Fusion (FA- FUS01 & FA- FUS02)

Analytical Method:

Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold- free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven, 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de- mineralized water, and analyzed by atomic absorption spectroscopy against matrix- matched standards.

Method Code	Element	Symbol	Units	Sample Weight (g)	Lower Limit	Upper Limit	Default Overlimit Method
Au-AA23	Gold	Au	ppm	30	0.005	10.0	Au-GRA21
Au-AA24	Gold	Au	ppm	50	0.005	10.0	Au-GRA22

ALS Chemex

Fire Assay Procedure – Ag-GRA21, Ag-GRA22, Au-GRA21 and Au-GRA22
Precious Metals Gravimetric Analysis Methods

Sample Decomposition: Fire Assay Fusion (FA-FUSAG1, FA-FUSAG2, FA-FUSGV1 and FA-FUSGV2)

Analytical Method: Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold. Silver, if requested, is then determined by the difference in weights.

Method Code	Element	Symbol	Units	Sample Weight (g)	Detection Limit	Upper Limit
Ag-GRA21	Silver	Ag	ppm	30	5	10,000
Ag-GRA22	Silver	Ag	ppm	50	5	10,000
Au-GRA21	Gold	Au	ppm	30	0.05	1000
Au-GRA22	Gold	Au	ppm	50	0.05	1000

ALS Chemex

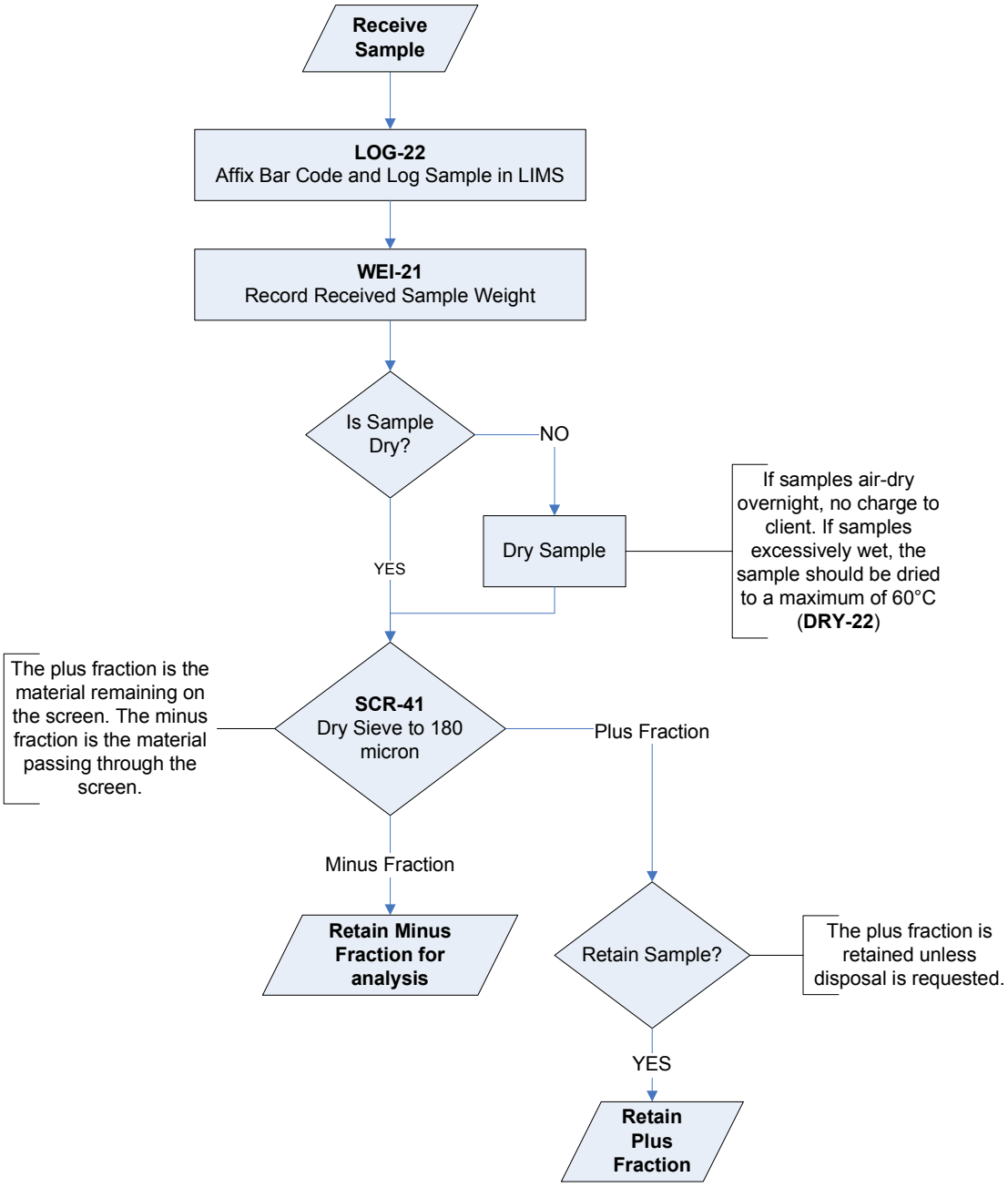
Sample Preparation Package – PREP-41
Standard Preparation: Dry sample and dry-sieve to –180 micron

Sample preparation is the most critical step in the entire laboratory operation. The purpose of preparation is to produce a homogeneous analytical sub-sample that is fully representative of the material submitted to the laboratory.

An entire sample is dried and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to 1 kg in weight.

Method Code	Description
LOG-22	Sample is logged in tracking system and a bar code label is attached.
SCR-41	Sample is dry-sieved to – 180 micron and both the plus and minus fractions are retained.

Sample Preparation Flowchart Package –PREP-41



Au- SCR21
Precious Metals Analysis – Screen Metallics Gold, Double Minus

Sample Decomposition:

Fire Assay Fusion

Analytical Method:

Gravimetric

1000 g of the final prepared pulp is passed through a 100 micron (Tyler 150 mesh) stainless steel screen to separate the oversize fractions. Any +100 micron material remaining on the screen is retained and analyzed in its entirety by fire assay with gravimetric finish and reported as the Au(+)fraction result. The –100 micron fraction is homogenized and two sub-samples are analyzed by fire assay with AAS finish (Au-AA25 and Au-AA25D). The average of the two AAS results is taken and reported as the Au (-) fraction result. All three values are used in calculating the combined gold content of the plus and minus fractions.

In the fire assay procedure, the sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required in order to produce a lead button. The lead button, containing the precious metals, is cupelled to remove the lead and the resulting precious metal bead is parted in dilute nitric acid, annealed and weighed to determine gold content.

The gold values for both the +100 and -100 micron fractions are reported together with the weight of each fraction as well as the calculated total gold content of the sample.

Calculations:

$$\mathrm{Au^{-}avg} = \frac{\mathrm{Au^{-}(1)} + \mathrm{Au^{-}(2)}}{2}$$

$$AuTotal(g/t) = \frac{(Au-avg(g/t)\times Wt.Minus(g)\times 10^{-6}\,t/g) + (\text{Weight Au in Plus(mg)}\times 10^{-3}\,g/mg)}{(Wt.Minus(g)+Wt.Plus(g))\times 10^{-6}\,t/g}$$

Fire Assay

Procedure – Au- SCR21

Precious Metals Analysis – Screen Metallics Gold, Double Minus cont'd

Determination Reported	Description	Detection Limit	Upper Limit	Units
Au Total (+)(-) Combined	Total gold content of sample as determined by metallics calculation above.	0.05	1000	ppm
Au (+) Fraction	Gold content of plus fraction determined by Au-GRA21.	0.05	100,000	ppm
Au (-) Fraction	Gold content of minus fraction. Reported as average of two subsamples.	0.05	1000	ppm
Au-AA25	Gold content of first minus fraction subsample.	0.05	1000	ppm
Au-AA25D	Gold content of second minus fraction subsample.	0.05	1000	ppm
Au (+) mg	Weight of gold in plus fraction.	0.001	1000	mg
WT. (+) Fraction Entire	Weight of plus fraction.	0.01	1000	g
WT. (-) Fraction Entire	Weight of minus fraction.	0.1	10,000	g



Pressed Pellet Geochemical Procedure

ME-XRF05

Sample Decomposition:

Pressed Powder Pellet (XRF-PPP)

Analytical Method:

X-Ray Fluorescence Spectroscopy (XRF)

A finely ground sample powder (10 g minimum) is mixed with a few drops of liquid binder (Polyvinyl Alcohol) and then transferred into an aluminum cap. The sample is subsequently compressed under approximately 30 ton/in^2 in a pellet press. After pressing, the pellet is dried to remove the solvent and analyzed by WDXRF spectrometry for the following elements.

Element	Symbol	Units	Lower Limit	Upper Limit
Arsenic	As	ppm	5	5 000
Barium	Ba	ppm	10	10 000
Bismuth	Bi	ppm	4	10 000
Cerium	Ce	ppm	10	10 000
Chromium	Cr	ppm	5	10 000
Copper	Cu	ppm	10	10 000
Gallium	Ga	ppm	4	10 000
Lanthanum	La	ppm	10	10 000
Molybdenum	Mo	ppm	4	10 000
Niobium	Nb	ppm	2	10 000
Nickel	Ni	ppm	10	15 000
Lead	Pb	ppm	4	4 000
Rubidium	Rb	ppm	2	10 000
Antimony	Sb	ppm	4	10 000
Selenium	Se	ppm	2	10 000
Tin	Sn	ppm	5	10 000



Element	Symbol	Units	Lower Limit	Upper Limit
Strontium	Sr	ppm	2	10 000
Tantalum	Ta	ppm	10	10 000
Thorium	Th	ppm	4	10 000
Titanium	Ti	ppm	5	10 000
Uranium	U	ppm	4	10 000
Vanadium	V	ppm	10	10 000
Tungsten	W	ppm	10	10 000
Yttrium	Y	ppm	2	10 000
Zinc	Zn	ppm	10	10 000
Zirconium	Zr	ppm	2	10 000

Appendix 3.4 – Software

The following software was used to compile the information provided in the 2011 Assessment Report for the Justin Property:

- Microsoft Office 2010
- ArcGIS v.9.3.1
- Geosoft Target v.7.2.1
- Adobe Acrobat X Standard
- Corel Graphics Suite 11
- Open Office.org 3.0
- Pendragon Forms
- Dyno-Lite Digital Microscope
- ioGAS

APPENDIX IV

Diamond Drill Hole

Logs, Strip Logs, and Samples

4.1 – Diamond Drill Hole Logs

Appendix 4.1.1 - Alteration

30-Oct-12
1:40:19 PM

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12011	18.8	19.4			clay ()	
JN12011	19.4	19.9			clay (), silica ()	clay altered frothy silica rich porous interval
JN12011	19.9	22.3			clay ()	
JN12011	22.3	27.8			silica ()	
JN12011	27.8	39			clay (4), Vein-halo silica (2)	intense clay alteration
JN12011	39	40			Skarn (2), Silicic (3), actinolite (2), epidote (2)	garnet actinolite skarn; intense silicification
JN12011	40	62.4			Hornfels (3), Silicic (3), Clay (2), Chlorite (2)	banding and hornfels/weak skarning of calcareous siltstone; local clay alteration
JN12011	62.4	70.7			Skarn (3), Epidote (2), Clay (2), Actinolite (1), Silica (3)	Garnet bands up to 3cm with alternating chlorite and minor actinolite and patchy epidote; late clay along fractures crosscutting skarn bands
JN12011	70.7	85.1			Clay (4)	feldspars completely altered to white clay ?kalolinite
JN12011	85.1	92.2			Clay (3)	pervasive clay alteration
JN12011	95.9	110.7			Clay (4)	pervasive clay alteration of feldspars and along fractures and matrix of qtz pebble conglomerate intervals
JN12011	110.7	115.9			Clay (3)	clay altered calcareous siltstone with semimassive py, po
JN12011	117.2	118.3			clay (3), sericitic (1)	pervasive clay alteration and possible patchy sericite alteration
JN12011	118.3	118.7			clay (4)	pervasive clay altered quartz pebble conglomerate
JN12011	118.7	120.1			clay (3)	pervasive clay alteration

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12011	120.7	121.3			clay (3), clay (2), limonite (1), Pervasive silica (3), Fracture Filling clay (1)	pervasive clay altered calcareous slst
JN12011	122.6	124.9			clay (3), Selective sericitic (4), Selective clay (1), Incomplete silica (2)	pervasive clay altered calcareous slst
JN12011	126	128.3			silica (4)	silica flooded black unit questionable limestone protolith
JN12011	140.5	140.8			clay (4)	clay altered fault zone
JN12011	140.8	145.5			Selective chlorite (3), Selective sericitic (3), Fracture Filling clay (2), clay (3)	clay altered calc sltst/ qtz pebble conglomerate?
JN12011	169.5	172			clay (3)	clay altered calcareous sltst
JN12011	176.9	185			clay (4)	clay altered host rock (possible clay altered QFP between 178-185m) with intervals of massive or semimassive sulphides
JN12011	186.3	190.6			clay (4)	intense clay altered magnetite skarn interval
JN12011	190.6	193.8			actinolite (4), silica (2), calcite (0), Pervasive skarn (4), Fracture Filling sulphides (4)	actinolite skarn with thin calcite stringers and increasing downhole sheeted qtz stringers and into silicified footwall to large skarn body
JN12011	193.8	200.1			silica (4), hornfels (3)	intense silicification and sheeted qtz stringers (with bismuthinite) in banded hornfeled metasediments below large skarn
JN12011	200.1	202.7			silica (4), sericitic (3), chlorite (2), clay (1)	intense silicification with sericite and clay altered feldspars; interval intensely veined with mineralized sheeted qtz veins
JN12011	202.7	209.8			silica (3), sericitic (3), chlorite (2)	moderate silicification with patchy biotite alteration and chlorite and sericite
JN12011	209.8	211			silica (3), sericitic (3), biotite (1), clay (1)	silicified and veined grdr dike with clay along fractures; bleaching and sericite in alteration envelopes around veins

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12011	211	226.5			silica (3), sericitic (2)	patchy silicification of sediments above stock; sheeted qtz veins with sulphides throughout
JN12011	226.5	243.3			silica (3), sericitic (2), chlorite (1)	moderately silicified granodiorite stock with sericite>epidote>chlorite alteration envelopes to sheeted qtz veins that host blebs of bismuthinite and lesser py/cpy/moly; stock also contains blebs of moly and rare sphalerite along micro fractures (phylosilicates weakly aligned but no distinct fracture)
JN12011	243.3	245.2			silica (4), sericitic (3), epidote (3)	bleached silicified zone with abundant wider than normal sheeted qtz veins and associated sericite/epidote alteration; veins have bismuthinite and native bismuth at 244.7m
JN12011	245.2	257.8			silica (3), sericitic (2), chlorite (1)	moderately silicified granodiorite stock with local sericite (rare epidote) chlorite alteration envelopes to sheeted qtz veins that host bs,sp,py rare cpy, mo
JN12011	257.8	262			clay (2), silica (3), sericitic (3)	clay altered bleached zone with sericite and very fine grained pyrite on fracture planes
JN12011	262	267.2			silica (3), sericitic (3)	sheeted qtz veins with sericite alteration envelopes
JN12011	267.2	270.9			Selective clay (4), Fracture Filling clay (2), Selective sericitic (2), clay (4), silica (2), sericitic (2)	bleached clay altered qtz vein interval; clay after feldspars
JN12011	270.9	271.5			silica (4), tourmaline (2), sericitic (3), biotite (1)	silicified shear zone with dull black matrix - possible fine grained tourmaline; qtz fragments are rounded and boudinaged along shear fabric….(?possible mylonite???)
JN12011	271.5	275.2			silica (4), biotite (3), sericitic (3)	bleached, brecciated looking altered intrusive

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12011	275.2	299.1			silica (2), sericitic (1)	fresher looking granodiorite than above, local sericite envelopes to sheeted qtz stringers
JN12011	299.1	300			clay (3), silica (3)	bleached clay altered HW to qtz vein below (clay replaces feldspars)
JN12011	300	301			clay (3)	white qtz vein with segments of clay altered granodiorite (clay replaces feldspars)
JN12011	301	304.9			silica (2)	fresher looking granodiorite but still local sheeted qtz veins with bismuthinite observed
JN12011	304.9	305.2			sericitic (3), clay (3), silica (3)	bleached sericite/clay altered zone with intense bismuthinite in a 5cm wide qtz vein
JN12011	327	335.6			sericitic (2), silica (1), clay (1)	fresher looking granodiorite with local tourmaline micro shear zones and sericite bleaching around qtz stringers and thin sx rich fractures
JN12011	335.6	336.6			sericitic (3), clay (3)	clay (after feldspars) and sericite rich interval of crumbly broken core; euhedral qtz phenocrysts are larger than normal and up to 5mm wide
JN12011	336.6	344.6			sericitic (2), silica (1)	fresher looking granodiorite with local thin brecciation zones of tourmaline flooded and local sericite around qtz stringers
JN12011	344.6	347.5			clay (3), sericitic (3)	clay altered interval with sericite and py in qtz stringers; concentrated fg py along qtz stringers
JN12011	347.5	363.7			sericitic (2), silica (1)	EOH 363.7m; fresher looking granodiorite with ser envelopes around local qtz stringers
JN12012	6.2	8.6	Selective	2	Fracture Filling calcite (2), Vein-halo chlorite (2), Vein-halo hematite (2)	dark green px skarn cut by thin calcite wisps with chlorite selvages and 1cm wide hematite alteration envelopes
JN12012	8.6	9	Selective	3	Incomplete calcite (3), Vein-halo hematite (3)	zone of intense white calcite infill and veining with associated hematite alteration envelopes

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12012	9	17.9	Selective	2	Fracture Filling calcite (2), Vein-halo chlorite (2), Vein-halo hematite (2)	dark green px skarn cut by thin calcite wisps with chlorite selvages and 1cm wide hematite alteration envelopes
JN12012	17.9	18.4	Pervasive	4	Pervasive clay (4), Pervasive limonite (3)	pervasive clay altered fault zone with abundant limonite and fine grained py and other sx along fractures in broken rubble
JN12012	18.4	36	Selective	2	Fracture Filling calcite (3), Vein-halo chlorite (3), Vein-halo hematite (2), Fracture Filling epidote (1)	dark green px skarn cut by thin wisps of white calcite with chlorite selvages and hematite alteration envelopes; chlorite increases downhole
JN12012	36	36.3	Pervasive	3	Pervasive carbonate (3), Pervasive clay (3), Fracture Filling calcite (3)	tan/yellowish coloured ?retrograde alteration of the px skarn to clay/carbonate
JN12012	36.3	42.6	Selective	3	silica (3), sericitic (2), clay (2), Fracture Filling chlorite (4), Fracture Filling calcite (3), Vein-halo hematite (1)	dark green pyroxene skarn with darker green chlorite coating fractures plus thicker white calcite stringers (with assoc hematite envelopes)
JN12012	42.6	43.8	Pervasive	4	Pervasive carbonate (4), Pervasive clay (3)	clay altered zone of tan carbonate skarn and clay after feldspar granodiorite section
JN12012	45	45.7	Pervasive	5	sericitic (4), limonite (3), Pervasive carbonate (4), Pervasive clay (4), PERVASIVE chlorite (3), Pervasive clay (4), Fracture Filling limonite (4)	clay/carbonate/ankeritic/dolomite skarn unit after lost??fault zone (called retrograde alteration - later than px skarn event)
JN12012	45.7	49	Pervasive	4	Pervasive silica (4)	pervasive silicification of skarn/intrusive mixed interval
JN12012	49	54.9	Selective	4	limonite (3), Pervasive clay (4), Selective clay (4)	intense clay alteration (clay after feldspars) and completely shot through towards end of interval with white ?kaolinite obliterating granitic texture
JN12012	59.8	68.8	Selective	3	Vein-halo hematite (2), Fracture Filling chlorite (3), Pervasive garnet (4), Fracture Filling chlorite (3)	wisps of calcite and associated hematite alteration envelopes
JN12012	68.8	69.1	Pervasive	4	Pervasive clay (3), Pervasive carbonate (4)	retrograde carbonate/clay skarn alteration - near faulted clay rich zone

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12012	69.1	69.6	Selective	3	Vein-halo hematite (3)	wisps of calcite and assoc hematite alteration envelopes in dark green pyroxene skarn
JN12012	69.6	70	Pervasive	5	Pervasive clay (5), Pervasive carbonate (4)	pervasive clay and retrograde carbonate/clay skarn alteration - unit is faulted with LOST core between 70-71.2m
JN12012	71.2	71.5	Pervasive	4	Pervasive silica (4), Selective clay (3)	pervasive silicification of semi to massive sulphides (py) in an?intrusive host; clay after feldspars?... Right after core loss - protolith difficult to confirm
JN12012	71.5	72.1	Pervasive	4	Pervasive carbonate (4), Pervasive clay (4)	pervasive clay and retrograde carbonate/clay skarn alteration bleeding away from fault/intrusive dyke in prograde px skarn
JN12012	83.8	102.1	Pervasive		Pervasive carbonate (4), Pervasive clay (4)	intensely veined clay altered retrograde skarn x-cut by sheeted and stockwork quartz veining
JN12013	4.1	12.1	Vein-halo	2	Vein-halo silica (2), Vein-halo hematite (2)	patchy silicification of pyroxene skarn; silicification envelopes around local quartz veining; hematite occurs as 1-2cm wide alteration envelopes to very thin calcite wisps
JN12013	14.2	18.2	Pervasive	3	Pervasive carbonate (4), Pervasive clay (4)	pervasive clay alteration of retrograde carbonate/clay intensely veined skarn interval
JN12013	21	21.3	Pervasive	4	clay (3), limonite (2), sericitic (1), Pervasive silica (4)	pervasive silicification of sulphide rich interval (section has an intrusive texture)
JN12013	23.8	24.5	Pervasive	4	Pervasive carbonate (3), Pervasive clay (4), Pervasive chlorite (4), Selective epidote (3)	chlorite and epidote plus carbonate/clay altered green pyroxene skarn
JN12013	26.2	26.8	Pervasive	4	Pervasive carbonate (4), Pervasive clay (4), Incomplete garnet (3), Fracture Filling calcite (1)	tan clay/carbonate retrograde skarn
JN12013	26.8	27	Pervasive	4	Pervasive clay (4), Fracture Filling clay (4), Pervasive carbonate (3)	clay altered fault zone with chips of retrograde skarn unit (as above)

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12013	27	27.8	Pervasive	4	Pervasive carbonate (4), Pervasive clay (3), Pervasive chlorite (3), Fracture Filling epidote (3)	olive green coloured epidote/chlorite altered retrograde skarn interval
JN12013	27.8	30.8	Vein-halo	2	clay (4), Vein-halo silica (2)	patchy silicification of pyroxene skarn; silicification envelopes around local qtz or pyrrhotite rich areas
JN12013	30.8	33	Pervasive	4	Pervasive silica (4)	pervasive silicification in quartz/pyrrhotite flooded area of pyroxene skarn
JN12013	33	60.1	Vein-halo	1	Vein-halo silica (1), Vein-halo hematite (2)	discrete silicification around local quartz veining throughout a massive interval of pyroxene (+/- garnet bands) skarn; hematite occurs as 1-2cm wide alteration envelopes to very thin calcite wisps
JN12013	60.1	61.5	Pervasive	4	Pervasive silica (4), Selective clay (2), Fracture Filling calcite (1)	silicified interval with semimassive pyrite (and possible igneous dyke); clay after feldspars
JN12013	61.5	61.9	Fracture Filling	4	Fracture Filling calcite (4), Vein-halo sericitic (2), Vein-halo chlorite (2)	calcite vein with quartz in sheared broken area
JN12013	61.9	65.7	Vein-halo	2	Vein-halo hematite (2), Vein-halo silica (2)	patchy silicification of pyroxene skarn cut by local wisps of very thin calcite with associated hematite alteration envelopes
JN12013	65.7	70.9	Pervasive	4	Pervasive silica (4)	pervasive silicification in mixed pyroxene skarn and QFP HW contact to QFP
JN12013	70.9	88.7	Pervasive	2	Pervasive epidote (2)	patchy sections of pervasive epidote within QFP
JN12013	88.7	90.8	Vein-halo	3	Incomplete chlorite (3), Vein-halo carbonate (1), Selective sericitic (2)	black chlorite flooded skarned zenolith within fresh looking QFP;tan carbonate as envelopes along late fractures
JN12013	90.8	106.6	Pervasive	3	Pervasive clay (3), Selective clay (3)	pervasive clay alteration of QFP with white clay along fractures (with bismuthinite and py) and clay after feldspar; zone has native bismuth at 101.1m

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12013	110.6	110.8	Vein-halo	3	Vein-halo silica (3), Vein-halo sericitic (3)	pervasive silicification and moderate sericite alteration around qtz vein at 110.7m
JN12013	112.3	115.7	Vein-halo	4	Vein-halo sericitic (3), Vein-halo silica (4)	sheeted qtz veins and dry fractures have silicification and sericite alteration envelopes giving core a patchy look
JN12013	115.7	117.3	Pervasive	3	Pervasive silica (3), Selective sericitic (3), Selective clay (2)	sericite and clay after feldspars and pervasive silicification around more mafic dirty rounded qtz grain dykes
JN12013	117.3	133.9	Vein-halo	1	Vein-halo sericitic (1), Vein-halo silica (2)	discrete sericite alteration envopes around sheeted veins throughout interval (envelopes up to 3cm wide)
JN12013	133.9	134.8	Pervasive	4	Pervasive clay (4), Selective sericitic (2), Selective clay (2)	clay rich crumbly zone of chips of granodiorite ??fault zone but no slicks observed only sheeted qtz veined granodiorite fragments recovered
JN12013	135.2	136.4	Pervasive	3	Pervasive clay (3), Incomplete sericitic (2), Selective clay (2)	clay altered sericitic granodiorite interval; core is weakly broken with clay on fractures and clay replacing feldspars
JN12013	138.3	139	Pervasive	3	Pervasive silica (3), Incomplete sericitic (2)	pervasive silicification of granodiorite as a zone of sheeted qtz veins cuts interval; also sericite alteration displayed
JN12013	141.3	143	Incomplete	3	chlorite (3), sericitic (2), Incomplete sericitic (3), Pervasive silica (2)	zone of sericitic and silicic alteration of granodiorite
JN12013	149	149.3	Pervasive	4	Pervasive silica (4), Selective sericitic (3)	pervasive silicification in zone of sheeted qtz veins; also sericite alteration observed
JN12013	149.6	150	Pervasive	3	Pervasive clay (3), Incomplete sericitic (2), Selective clay (3)	clay rich granodiorite interval; core is broken with clay on fractures and replacing feldspars in intrusive (??very weak fault?)
JN12014	4.6	10.1	Vein-halo	1	Vein-halo chlorite (1)	local thin calcite veins with chloritic alteration envelopes

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	10.1	10.2	Pervasive	3	Pervasive silica (3), Vein-halo chlorite (3)	pervasive silicification around interval with high concentration of pyrrhotite and shearing; zone also has abundant chlorite veins throughout
JN12014	10.6	10.8	Pervasive	4	Pervasive carbonate (4), Pervasive clay (2), Pervasive silica (3)	retrograde carbonate/clay alteration of pyroxene skarn; core is tan orange coloured and contains pyrrhotite and deformed qtz veins
JN12014	10.8	12	Fracture Filling	1	Fracture Filling calcite (1)	rare thin calcite fracture coating
JN12014	12	12.1	Pervasive	4	Pervasive carbonate (4), Pervasive clay (2), Pervasive silica (3), Fracture Filling calcite (1)	tan coloured retrograde skarn 5cm wide with sheared calcite veinlet within carbonate/clay altered zone
JN12014	12.1	17.4	Fracture Filling	1	Fracture Filling calcite (1)	calcite wisps and discontinuous veinlets and fracture coating massive px skarn
JN12014	17.4	22.5	Pervasive	3	Pervasive silica (3), Vein-halo chlorite (3)	pervasive silicification of veined and deformed garnet rich bands within the px skarn
JN12014	22.5	28.5	Vein-halo	1	Vein-halo calcite (1)	calcite wisps and discontinuous veinlets and fracture coatings in massive pyroxene skarn
JN12014	28.5	28.9	Incomplete	3	Vein-halo calcite (3)	pyrrhotite and calcite replacing pyroxene skarn
JN12014	28.9	41.5	INCOMPLETE	2	INCOMPLETE chlorite (2), FRACTURE FILLING calcite (2)	massive pyroxene skarn with local zones of intense chlorite and minor calcite wisps throughout
JN12014	41.5	42.9	PERVASIVE	4	PERVASIVE carbonate (4), PERVASIVE clay (3), FRACTURE FILLING sulphides (1)	tan coloured carbonate/clay retrograde skarn HW to sulphide rich zone below; f.g. py coats local fractures
JN12014	42.9	43.3	PERVASIVE	4	PERVASIVE clay (4), PERVASIVE silica (4), FRACTURE FILLING sulphides (3)	pervasive clay alteration in association with sulphide mineralization; interval is frothy with 15% open space and remnant qtz plus sulphides remain

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	43.3	45	PERVASIVE	4	PERVASIVE carbonate (4), PERVASIVE clay (3), PERVASIVE epidote (3)	tan to olive green coloured carbonate/clay retrograde skarn alteration FW to sulphide rich zone above
JN12014	45	46	PERVASIVE	3	sericitic (4), limonite (3), Pervasive carbonate (4), Pervasive clay (4), PERVASIVE chlorite (3), Pervasive clay (4), Fracture Filling limonite (4)	zone of intense chlorite alteration of pyroxene rich skarn; interval is crumbly and medium grained
JN12014	46	48.5	FRACTURE FILLING	2	silica (3), limonite (2), calcite (1), FRACTURE FILLING calcite (1), VEIN-HALO hematite (2)	calcite fracture fill and small discontinuous thin veinlets throughout massive pyroxene skarn interval; hematite as fracture or calcite vein alteration envelopes
JN12014	48.5	49.3	INCOMPLETE	3	INCOMPLETE carbonate (3), INCOMPLETE clay (2), FRACTURE FILLING calcite (3)	transition zone of patchy tan carbonate/clay in massive pyroxene skarn to soft crumbly carbonate/clay(epidote) retrograde altered skarn
JN12014	49.3	50.7	PERVASIVE	4	PERVASIVE carbonate (3), PERVASIVE clay (4), PERVASIVE epidote (3), VEIN-HALO sulphides (2)	tan to olive green coloured crumbly clay rich retrograde skarn interval with reground rubble core at 50.2m (??possible core loss of sx centre to alteration zone??)
JN12014	50.7	52.9	PERVASIVE	4	PERVASIVE silica (3), INCOMPLETE sulphidess (3)	pervasive silicification pyroxene skarn with common hematite staining ; 0.8m lost core and sulphide rich ground rubble zone between 51.8-52.9m
JN12014	52.9	63	FRACTURE FILLING	4	FRACTURE FILLING calcite (2), VEIN-HALO hematite (3)	massive pyroxene skarn with very thin calcite wisps and common hematite alteration envelopes; interval is strongly veined towards bottom of section (HW to qtz stockwork zone below)
JN12014	63	63.5	PERVASIVE	4	PERVASIVE silica (4)	pervasive silicification of pyroxene skarn (that is intensely qtz veined) at transistion to retrograde carbonate/clay tan yellow altered skarn with qtz stockwork below

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	63.5	67.3	PERVASIVE	4	PERVASIVE carbonate (4), PERVASIVE clay (3), INCOMPLETE chlorite (2), INCOMPLETE sericitic (2)	intense retrograde alteration of tan carbonate/clay skarn with intense white qtz stockworking and associated sulphides in qtz
JN12014	67.3	68.8	Pervasive	4	Pervasive silica (4), Pervasive chlorite (3), Incomplete sericitic (2)	intense silicification of hornfelsed and qtz stockworked upper contact zone to granodiorite below
JN12014	69.3	71	Selective	4	Selective clay (4), Pervasive clay (2), Selective sericitic (4)	clay after feldspar and also clay coating fractures and last 5 cm of interval is pervasive clay shear zone in granodiorite; all biotite gone to white mica
JN12014	72.2	77.6	Selective	4	Selective clay (4), Pervasive clay (2), Selective sericitic (4)	clay after feldspar and also coating clay fractures locally; all biotite altered to white mica; intervals continue to be intensely veined
JN12014	81.8	82.6	Pervasive	3	Pervasive silica (3), Selective sericitic (3)	pervasive silicification of biotite granodiorite and also sericite alteration throughout matrix
JN12014	84.2	87.3	Selective	4	Selective clay (4), Selective sericitic (4), Pervasive silica (1)	clay after feldspars and all biotite gone to white mica in altered granodiorite interval
JN12014	90.4	92.1	Pervasive	2	Selective sericitic (2), Pervasive silica (2)	sericite in groundmass of weakly silicified altered granodiorite interval
JN12014	97.3	99.5	Selective	4	Selective clay (4), Fracture Filling clay (3), Selective sericitic (4)	swelling clay after feldspars and all biotite coverted to white mica; clay also along fractures locally; swelling clays activated by spraying core with water….
JN12014	99.5	102.5	Incomplete	2	Incomplete silica (2), Fracture Filling clay (2)	silicification is patchy throughout this interval and clay locally coats fractures
JN12014	102.5	104.5	Selective	4	Selective clay (4), Fracture Filling clay (3), Selective sericitic (4)	clay after feldspars and all biotite coverted to white micas; clay also along fractures locally
JN12014	104.5	105.1	Pervasive	4	Pervasive clay (4), Selective clay (4), Selective sericitic (4)	pervasive clay alteration of clay after feldspars & biotite to white mica granodiotite sheared crumbly interval ??fault zone??

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	105.1	107.1	Selective	4	Selective clay (3), Selective sericitic (3), Incomplete silica (2), Pervasive retrograde (2), Pervasive skarn (4), Selective garnet (3), Pervasive clay (4), Fracture Filling hematite (3), Patchy chlorite (2), Patchy epidote (1)	less crumbly clay after feldspars/biotite gone to white mica granodiorite yet still clay altered and patchy silicification throughout
JN12014	107.5	108	Pervasive	4	Pervasive silica (4), Selective sericitic (3), Selective clay (4)	pervasive silicification of clay altered (sericite after mica) granodiorite intense sheeted qtz veining
JN12014	108	113.8	Selective	4	Selective clay (4), Selective sericitic (4), Fracture Filling clay (2)	clay after feldspars, biotite gone to white mica; clay coats fractures locally and last 8cm of interval is completely crumbly and unconsolidated - possible small scale fault??
JN12014	113.8	117.3	Incomplete	2	Selective clay (2), Selective sericitic (2)	mixed zone of 40% clay altered granodiotite and biotite rich fresher looking granodiorite; still moderately veined with sheeted qtz veins
JN12014	117.6	122.6	Incomplete	2	sericitic (3), Incomplete silica (2), Selective clay (2), Selective sericitic (2)	patchy silicification and minor clay after feldspar and sericite afte bioitite zones within this fresher looking granodiorite interval
JN12014	122.6	124.7	Selective	4	clay (3), Selective sericitic (4), Selective clay (1), Incomplete silica (2)	intense sericite alteration of biotite and also in groundmass; patchy silicification
JN12014	125.4	127.4	Selective	4	Selective sericitic (4), Selective clay (4)	intense clay after feldspars and white mica after biotite, patches of sericite throughtout groundmass
JN12014	127.4	128.8	Selective	4	Selective sericitic (4), Selective clay (4), Pervasive silica (3)	intense clay after feldspar and white mica after biotite with moderate pervasive silicification increasing downhole
JN12014	128.8	129.9	Pervasive	4	Pervasive silica (4), Selective clay (4), Selective sericitic (4), Fracture Filling clay (2)	zone of very fine grained sulphides on fracture with clay after feldspar and sericite after mica

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	129.9	131.9	Selective	3	Selective clay (3), Selective sericitic (3)	clay after feldspars and biotite gone to white mica altered granodiorite
JN12014	150.4	150.8	Pervasive	4	Pervasive clay (4), Selective clay (4), Selective sericitic (3), Pervasive silica (4)	fine grained intensely silicified zone with rehealed shearing preserved in interval; biotites altered to light brown/reddish colour instead of black (?secondary biotite?)
JN12014	153.2	154.7	Selective	4	Selective clay (4), Selective sericitic (4)	clay after feldspars and biotite gone to white mica altered granodiorite; 3cm clay shear zone at start of interval
JN12014	161	161.5	Selective	4	sericitic (1), Selective sericitic (4), Selective clay (3), Fracture Filling clay (3)	sericite altered clay after feldspar rich granodiorite with clay and fine grained sulphides coating fracture surfaces
JN12014	163.8	165.8	Selective	3	Selective sericitic (3), Selective clay (3)	sericite and clay after biotite and feldspars respectfully
JN12014	171.6	174.6	Selective	4	Fracture Filling clay (3), Selective clay (4), Selective sericitic (4)	intense clay altered granodiorite with clay replacing feldspars and coating fractures and biotites altered to white mica - HW to gouge fault
JN12014	174.6	174.7	Pervasive	5	Pervasive clay (5), Selective clay (4)	clay gouge fault core with remnant clay altered granodiorite texture
JN12014	174.7	176	Selective	4	Fracture Filling clay (3), Selective clay (4), Selective sericitic (4)	intense clay altered granodiorite with clay replacing feldspars and coating fractures and biotites altered to white mica - FW to gouge fault
JN12014	182.5	184.4	Selective	3	Selective clay (3), Selective sericitic (3)	clay after feldspars and biotite to white mica; local white ?kaolinite coating fractures with possible fine grained sulphides??at 183.7m
JN12014	184.4	185	Incomplete	3	Incomplete epidote (3), Selective sericitic (3), Pervasive silica (3)	pyrite/aresenopyrite rich zone with patchy epidote, moderate silicification and roughly 50% biotites altered to white mica
JN12014	185	186	Pervasive	3	Pervasive clay (3), Selective clay (3), Selective sericitic (3)	pervasive clay alteration of granodiorite proximal to qtz veins with visible gold at 187.2m

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	186	187.2	Selective	4	Selective clay (4), Selective sericitic (2), Pervasive silica (2)	felspars gone to clay and sericite partly replaces biotite in altered granodiorite; patchy silicification
JN12014	187.2	187.5	Selective	4	Selective clay (4), Selective sericitic (4), Pervasive silica (3)	VG in qtz stringer at 187.3m; clay after felspars and coating local fractures; interval is dominantly qtz stringers with bismuthinite and VG specs
JN12014	187.5	194.6	Selective	4	Pervasive clay (3), Fracture Filling clay (2), Fracture Filling calcite (3), Fracture Filling chlorite (3), Selective clay (4), Selective sericitic (2), Fracture Filling clay (3), Incomplete silica (2), Selective epidote (3)	felspars altered to clay; patchy zones of biotites gone to white mica; local zones of epidote alteration; thin white clay coats most fracture surfaces and discrete silicification proximal to larger sheeted qtz veins
JN12014	194.6	194.9	Fracture Filling	3	Fracture Filling sulphides (3)	very fine grained bismuthinite in fractures within the qtz vein; UV lamp/XRF confirms presence of W in vein
JN12014	194.9	196.6	Selective	4	Selective clay (4), Selective sericitic (4), Incomplete silica (3)	feldspars altered to clay; biotites altered to white mica and interval cut by numerous thin sx veinlets
JN12014	196.6	196.9	Fracture Filling	3	Fracture Filling sulphides (3), Selective clay (4), Selective sericitic (4), Fracture Filling clay (2)	"sexy vein"; very fine grained bismuthinite as blebs and in fractures within the qtz vein; UV lamp/XRF confirms presence of W in vein
JN12014	196.6	209.7	Selective	4	Fracture Filling sulphides (3), Selective clay (4), Selective sericitic (4), Fracture Filling clay (2)	feldspars to clay and biotites to white mica clay altered granodiotite interval
JN12014	209.7	217	Incomplete	3	Incomplete epidote (3), Selective clay (4), Selective sericitic (4), ()	patches of bright green epidote in clay and sericite altered granodiorite (very sheared to bottom of interval)
JN12014	217	217.4	Pervasive	5	Pervasive clay (4)	fault zone with clay gouge
JN12014	217.4	222.6	Pervasive	5	argillic (5), pyrophillitic (3), silica (2), Pervasive carbonate (5), Pervasive clay (4), Incomplete sulphides (3)	retrograde skarn with common pyrite patches and local sheared discontinuous qtz vein fragments

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12014	223.9	224.2	Pervasive	5	Pervasive carbonate (5), Pervasive clay (4), Incomplete sulphides (3), Pervasive retrograde (4), Patchy sulphides (4)	retrograde skarn with common pyrite patches and local sheared discontinuous qtz vein fragments
JN12014	224.2	224.5	Pervasive	4	Pervasive clay (4), Fracture Filling sulphides (2), Pervasive retrograde (4), Pervasive clay (4), Fracture Filling sulphides (2)	clay rich fault zone
JN12014	231.3	231.8	Pervasive	4	Pervasive clay (4)	clay rich fault zone
JN12014	248	259	Incomplete	4	Incomplete hornfels (4), Pervasive silica (3), ()	patchy hornfels/skarning in calcareous siltstone giving purple/green banding and unit becomes silicified and compact
JN12014	259	259.7	Pervasive	3	Pervasive calcite (3)	pervasive calcite throughout interval
JN12014	259.7	264	Incomplete	2	Incomplete chlorite (2), Incomplete chlorite (2)	patchy chlorite altered discontinuous bands
JN12014	259.7	270.8	Incomplete	2	Incomplete chlorite (2), Incomplete chlorite (2)	patchy chlorite altered discontinuous bands
JN12014	270.8	278.1	Incomplete	4	Pervasive clay (3), Fracture Filling clay (4)	faulted zone with high concentrations of clay and local clay gouge; core is highly broken with local open space along fractures
JN12014	278.1	278.4	Fracture Filling	2	Fracture Filling clay (2)	clay gouge along contacts of qtz vein
JN12014	278.4	291	Selective	3	Selective clay (3), Fracture Filling clay (2)	white clay along selective beds within siltstone and fracture fill throughout interval
JN12014	291	297	Fracture Filling	1	Fracture Filling clay (1), Fracture Filling sulphides (2)	EOH 297m; minor white clay coating fractures and as discontinous lenses along foliation within siltstone intervals; f.g. pyrite as fracture fill to end of hole
JN12016	7.1	12.8	Pervasive	4	Pervasive silica (4), Selective chlorite (3), Pervasive hornfels (4), Incomplete garnet (1)	pervasive silicification of qtz pebble conglomerate unit that is strongly hornfels; patchy chlorite bands and local garnet development at start of hole

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12016	12.8	26.2	Pervasive	4	Pervasive hornfels (4), Incomplete chlorite (3), Incomplete garnet (2), Incomplete silica (2)	hornfels of calcareous siltstone with local garnet bands especially between 17-17.7, 19.6-20 and 22.6-24.7m; patchy silicification; common chlorite
JN12016	26.2	50.6	Incomplete	3	Pervasive carbonate (4), Pervasive clay (4), Incomplete garnet (3), Fracture Filling calcite (1)	garnet development at beginning of pyroxene skarn to 36m; common thin calcite wisps throughout massive px skarn interval
JN12016	50.6	53.8	Pervasive	4	Pervasive retrograde (4), Pervasive carbonate (4), Pervasive clay (3), Fracture Filling chlorite (2)	retrograde carbonate/clay/chlorite alteration to a mottled white/tan colour with green chlorite fractures
JN12016	53.8	54.6	Incomplete	2	Layered garnet (2)	discontinuous garnet bands in a pyroxene skarn interval
JN12016	54.6	54.8	Pervasive	3	Pervasive retrograde (3), Pervasive carbonate (3), Pervasive clay (2)	zone of concentrated 4mm clear qtz veins and associated retrograde carbonate/clay alteration
JN12016	54.8	56	Incomplete	3	Incomplete garnet (3), Incomplete silica (3)	garnet rich pyroxene skarn with patches of retrograde alteration and also patchy silicification
JN12016	59.8	60	Pervasive	4	Vein-halo hematite (2), Fracture Filling chlorite (3), Pervasive garnet (4), Fracture Filling chlorite (3)	ground rubble between two large sections of LOST core; fragments are mostly rounded garnet masses with chlorite fracture surfaces
JN12016	61.4	62.6	Pervasive	4	Pervasive carbonate (4), Pervasive clay (3), Pervasive retrograde (4)	tan carbonate alteration and sheeted qtz calcite veins plus sx along fractures that are low angle to core axis with common open space
JN12016	62.6	67.8	Incomplete	2	Incomplete silica (2), Incomplete garnet (2)	patchy silicification and discontinuous bands of garnet in pyroxene skarn interval
JN12016	67.8	76.2	Incomplete	1	Incomplete silica (1)	weak silicification patches in pyroxene skarn above very altered zone below
JN12016	76.2	94.8	Pervasive	4	Pervasive limonite (4), Selective clay (4)	retrograde carbonate/clay alteration to a mottled tan/beige/white/brown color
JN12016	94.8	95.6	Pervasive	5	Selective limonite (5), Pervasive clay (4), Selective iron oxide (4)	oxidation of retrograde skarn, bright orange brown in color.

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12016	95.6	102	Pervasive	4	Pervasive clay (5), Pervasive carbonate (4)	retrograde skarn, white/beige in color, chaulk texture.
JN12016	102	112.6	Pervasive	5	Pervasive clay (5), Pervasive carbonate (4), Selective limonite (4), Pervasive retrograde (4), Pervasive clay (4), Patchy magnetite (3), Patchy sulphides (2)	retrograde skarn, beige/brown/white in color.
JN12016	112.6	118.4	Pervasive	4	Fracture Filling calcite (2), Pervasive hornfels (4), Pervasive clay (4), Incomplete carbonate (3), silica (3), sericitic (3), clay (1)	pervasive clay altered hornfels that are intensely veined
JN12016	118.4	119.4	Selective	4	Selective clay (4), Selective sericitic (3), Fracture Filling sulphides (2)	clay rich granodiorite with clay after feldspars, interval sheared
JN12016	119.4	120.7	Pervasive	3	chlorite (2), sericitic (2), Pervasive silica (3), Selective sericitic (3), Selective clay (3), Fracture Filling clay (1)	patchy silicified and clay altered granodiorite with common clay altered fracture fill
JN12016	120.7	123.8	Pervasive	3	clay (3), clay (2), limonite (1), Pervasive silica (3), Fracture Filling clay (1)	pervasive silicification in intensely qtz veined granodiorite section, qtz veins have common moly
JN12016	123.8	124.6	Pervasive	2	Pervasive clay (3), Pervasive silica (2), Selective sericitic (3), Selective clay (3), Fracture Filling clay (2)	patchy silicification with clay after feldspar and biotite has gone to white mica
JN12016	124.6	132	Vein-Halo	3	Incomplete silica (3), Vein-Halo clay (2), Vein-Halo sericitic (3), Fracture Filling clay (2)	silicification around qtz veining with bleaching andlocal biotite gone to white mica; patchy sericite near 129.3m
JN12016	132	132.5	Pervasive	4	Pervasive clay (4), Selective clay (3), Selective sericitic (3)	fault zone of intense clay altered granodiorite.
JN12016	132.5	133.2	Pervasive	2	Pervasive clay (2), Selective clay (4), Selective sericitic (3)	more compitant clay altered granodiorite after fault zone
JN12016	133.2	137.6	Pervasive	3	Pervasive silica (3), Selective clay (3), Selective sericitic (3), Fracture Filling sulphides (3), Fracture Filling clay (2)	patchy silicification and clay alteration of the granodiorite around sulphide filled fractures; interval is locally sheared

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12016	137.6	147.6	Pervasive	4	Pervasive clay (4), Selective sericitic (3)	pervasive clay altered granodiorite; all biotites gone to white mica
JN12016	142.7	143.8	Fracture Filling	3	Fracture Filling pyrite (3), Selective clay (3)	zone of intense sx (pyrite dominant) fracture fill
JN12016	143.8	150	Pervasive	3	Selective clay (3), Pervasive clay (3), Selective sericitic (3)	pervasive clay altered granodiorite; all biotites to white mica
JN12016	150	150.4	Pervasive	3	Pervasive silica (3), Fracture Filling sulphides (3)	pervasive silca and pyrite fracture filling (common open space)
JN12016	150.4	160.7	Pervasive	4	Pervasive clay (4), Selective clay (4), Selective sericitic (3), Pervasive silica (4)	pervasive clay altered granodiorite with common shears and fractures with open space; all biotite gone to white mica
JN12016	160.7	161.6	Selective	4	Pervasive clay (4), Selective clay (4), Selective sericitic (3), Selective epidote (3)	clay altered granodiorite with addition of epidote and coarse blebs of pyrite
JN12016	161.6	169.8	Pervasive	4	Pervasive clay (4), Selective clay (4), Selective sericitic (3)	pervasive clay alteration of biotite gone to white mica granodiorite
JN12016	169.8	170.1	Pervasive	4	Pervasive clay (4), Selective clay (4), Selective sericitic (4)	fault zone of intensely decomposed granodiorite; lower contact is sharp at 40 degrees to core axis
JN12016	170.1	174.4	Pervasive	3	Pervasive silica (3), Fracture Filling clay (2)	fresher looking dark grey biotite granodiorite with pervasive moderate silicification; thin white clay coats fractures
JN12016	174.4	183.5	Selective	4	Selective clay (4), Selective sericitic (3), Fracture Filling sulphides (2), Fracture Filling clay (3)	sheared clay rich granodiorite with common small brecciated zones with fine grained sx and qtz veins
JN12016	183.5	197.6	Incomplete	2	Incomplete silica (2), Selective sericitic (1), pyroxene (5), garnet (4), magnetite (5)	biotite granodiortie with silicificaiton and bleaching alteration around qtz stringers especially at 183.5-186,190.5-191.2 and 195-195.3m

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12016	197.6	267.2	Selective	4	Selective clay (4), Fracture Filling clay (2), Selective sericitic (4), Incomplete calcite (4), Pervasive retrograde (4), Fracture Filling sulphides (2), Pervasive retrograde (4), Fracture Filling sulphides (3), Patchy magnetite (3)	clay after feldspar and locally coating fractures in extensive clay altered granodiorite zone; 198-209.3m is patchy carbonate of matrix in clay altered granodiorite; 197.6-204m is cut by numerous pyrite stringers and fracture fills at various orientations
JN12016	267.2	271	Incomplete	3	Selective clay (4), Fracture Filling clay (2), Selective sericitic (2), clay (4), silica (2), sericitic (2)	patchy clay alteration and biotites gone to white mica
JN12016	271	275.3	Selective	4	Selective clay (4), Selective sericitic (3), Vein-Halo silica (3), Selective calcite (3)	clay after felspar with silica enveloping veins and calcite within matrix of sheared areas
JN12016	275.3	293.9	Incomplete	3	Incomplete silica (3), Selective sericitic (1)	patchy silicification around qtz veins and sericite after biotite in bleached alteration envelopes of qtz
JN12016	293.9	295	Selective	4	Selective clay (4), Selective sericitic (3), Vein-Halo silica (3)	clay after feldspars; sericite feldspars and biotite; silica enveloping qtz veins
JN12016	295	300	Selective	2	Selective clay (2), Vein-Halo silica (2), Vein-Halo sericitic (2)	EOH 300m; clay, sericite and silica alteration as envelopes around veins and bleached dry fractures
JN12017	17	23	Fracture Filling	2	Fracture Filling limonite (2), Pervasive chlorite (3), Pervasive Clay (2)	limonite coating fracture surfaces from top of hole to 23m; weak hornfels of silt and sandstone interval giving purple and green bands
JN12017	23	35.8	Pervasive	2	Pervasive Clay (2), Pervasive chlorite (2), Pervasive hornfels (2)	weak to moderate hornfels of interbedded siltstone/sandstone; alteration increases downhole
JN12017	35.8	36.2	Pervasive	2	Pervasive Silica (2), Fracture Filling chlorite (1), Fracture Filling Clay (1), Selective sulphides (1)	pervasive silicification of qtz veined qtz sandstone interval with common chlorite and thin pyrite stringers; clay on fractures
JN12017	36.2	38.5	Pervasive	2	Pervasive hornfels (3), Pervasive chlorite (2), Selective Silica (1)	moderate hornfels of interbedded mottled grainy looking siltstone and sandstone

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12017	38.5	45.5	Incomplete	3	Incomplete Clay (3), Selective Silica (2), Pervasive hornfels (2), Fracture Filling sulphides (2)	zone of clay gouge faulting and LOST 5.2m of core in qtz rich sandstone interval with local pyrite
JN12017	45.5	58.6	Pervasive	4	Pervasive hornfels (4), Pervasive Silica (3), Fracture Filling Clay (1), Incomplete garnet (1), Incomplete epidote (1)	transition zone of increasing hornfels towards true garnet skarn at 58.6m; epidote at 50.4m as fracture fill
JN12017	58.6	71	Incomplete	4	Incomplete garnet (4), Fracture Filling chlorite (2), Fracture Filling calcite (1), Fracture Filling hematite (1), Incomplete garnet (4), Fracture Filling chlorite (2), Fracture Filling calcite (1), Fracture Filling hematite (1), Incomplete garnet (4), Fr	very garnet rich skarn interval with light and darker brown locally zoned fine to medium grained garnet development; locally crosscut by thin dark green chlorite veinlets; unit is hard and tight; area of coarse white calcite veining between 63.2-64.7m; lo
JN12017	71	77.4	Incomplete	3	Incomplete silica (3), Incomplete clay (1), Incomplete silica (3), Incomplete clay (1)	moderate silicification of granodiorite at upper most contact and gradually decreases downhole; at lower contact with QFP, intrusive becomes very clay rich; ?LOST section could be a washed fault zone
JN12017	79.4	88.5	Fracture Filling	2	Fracture Filling clay (2), Incomplete silica (2), Fracture Filling clay (2), Incomplete silica (2)	clay as local patches and mostly fracture fill in QFP; patchy moderate silicification of melted zenoliths of granodiorite or sediments within QFP; bounding LOST sections could be washed away fault gouge?
JN12017	90	91.1	Pervasive	4	Pervasive carbonate (4), Pervasive clay (4), Fracture Filling sulphides (2), Pervasive carbonate (4), Pervasive clay (4), Fracture Filling sulphides (2), silica (3), sericitic (2)	retrograde alteration of skarned calcareous siltstone interval with carbonate and clay banded unit with up to 3% fine grained pyrite as discontinuous bands and irregular patches; 2.9m LOST at end of interval
JN12017	94	94.5	Pervasive	4	Pervasive clay (4), Pervasive carbonate (4), Fracture Filling sulphides (2), Pervasive clay (4), Pervasive carbonate (4), Fracture Filling sulphides (2), sericitic (3), limonite (1), silica (2)	retrograde alteration of skarned calcareous siltstone interval with carbonate and clay banded unit with up to 3% fine grained pyrite as discontinuous bands and irregular patches; 2.9m LOST at start interval with ground sulphide rich rubble from 94-94.3m

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12017	94.5	100.2	Fracture Filling	2	Fracture Filling calcite (2), Vein-Halo carbonate (1), Vein-Halo clay (1), Fracture Filling calcite (2), Vein-Halo carbonate (1), Vein-Halo clay (1)	banded garnet skarn with local thick white calcite fracture fill and rare vein alteration envelopes of tan carbonate/clay retrograde alteration
JN12017	100.2	100.8	Fracture Filling	4	Fracture Filling calcite (4), Pervasive carbonate (3), Pervasive clay (3), Fracture Filling calcite (4), Pervasive carbonate (3), Pervasive clay (3)	zone of intense calcite veining in banded garnet skarn and associated clay/carbonate tan coloured retrograde alteration
JN12017	100.8	108.7	Fracture Filling	1	Fracture Filling calcite (1), Fracture Filling calcite (1)	banded garnet skarn with rare coarse grained white calcite fracture fill
JN12017	109.7	110.9	Pervasive	3	Pervasive carbonate (3), Pervasive clay (3), Pervasive carbonate (3), Pervasive clay (3)	tan coloured clay/carbonate retrograde alteration of contact between the garnet skarn and clay altered qtz pebble conglomerate thick interval
JN12017	110.9	116	Selective	3	Selective clay (3), Fracture Filling clay (2), Selective clay (3), Fracture Filling clay (2)	clay altered qtz pebble conglomerate unit with clay after feldspars and replacing all but qtz clasts in conglomerate unit; locally white kaolinite observed; clay also coating fractures and making thin seams within qpc rubble; 3.5m LOST core at 116m - poss
JN12017	119.5	123.5	Selective	3	Selective clay (3), Fracture Filling clay (2), Selective clay (3), Fracture Filling clay (2)	clay altered qtz pebble conglomerate unit with clay after feldspars and replacing all but qtz clasts in conglomerate unit; locally white kaolinite observed; clay also coating fractures and making thin seams within qpc rubble; 3.5m LOST core at 116m and 1.
JN12017	123.5	123.8	Pervasive	4	Pervasive clay (4), Selective clay (3), Pervasive clay (4), Selective clay (3)	zone of 60% clay gouge and 40% clay altered qtz pebble conglomerate partially washed during drilling process
JN12017	123.8	130.4	Pervasive	3	Pervasive clay (3), Pervasive silica (2), Selective sericitic (3), Selective clay (3), Fracture Filling clay (2)	pervasive clay alteration of matrix in the quartz pebble conglomerate

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12017	130.4	131.4	Pervasive	3	Pervasive clay (3), Fracture Filling carbonate (2), Pervasive clay (3), silica (4), clay (3), limonite (3)	pervasive clay alteration of siltstone, fracture fill carbonate
JN12017	131.4	137	Selective	3	Selective hornfels (3), Selective chlorite (2), Fracture Filling carbonate (2), Pervasive clay (2)	selective beds are hornfels altered
JN12017	137	139.5	Pseudomorphic	3	Pervasive clay (3), Selective carbonate (2)	pervasive clay alteration of matrix
JN12017	139.5	146.6	Pervasive	4	Pervasive silica (4), Selective hornfels (3), Selective chlorite (3), Selective biotite (3), Fracture Filling clay (2)	patchy silicification and hornfles of quartz pebble conglomerate
JN12017	146.6	154.5	Pervasive	4	Pervasive clay (3), Incomplete silica (2)	pervasive clay alteration of siltstone, fracture fill carbonate, patchy incomplete silicification.
JN12017	154.5	156	Pervasive	4	Pervasive clay (4)	pervasive clay alteration within fault gouge and quartz pebble conglomerate.
JN12017	156	159.2	Pervasive	3	Pervasive clay (3), Fracture Filling carbonate (3)	pervasive clay alteration of siltstone and sandstone, interbeds with local tan carbonate alteration, rare quartz pebble conglomerate
JN12017	160.2	165	Pervasive	4	Pervasive clay (4)	pervasive clay alteration of quartz pebble conglomerate, selective to matrix
JN12018	18.6	27.4	Pervasive	2	PERVASIVE Clay (2), INCOMPLETE Hornfels (2), silica (5), clay (4)	pervasive clay alteration of interbedded weakly hornfelsed variably calcareous siltstone sequence
JN12018	27.4	37.8	Pervasive	3	PERVASIVE Clay (3), FRACTURE FILLING sulphides (1)	clay rich siltstone interval with thin discontinous pyrite stringers
JN12018	37.8	41.1	Selective	2	SELECTIVE Hornfels (2), FRACTURE FILLING sulphides (1), INCOMPLETE Silica (1)	bands of purple/green weak to moderate hornfels of variably calcareous siltstone with pyritic qtz sandstone between 35.9-37.9m
JN12018	41.1	45.8	Pervasive	2	PERVASIVE Clay (2), FRACTURE FILLING Silica (3)	pervasive clay in qtz sandstone that is veined by grey qtz stringers

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	45.8	46.7	Pervasive	4	PERVASIVE Clay (4), FRACTURE FILLING Silica (2), Selective clay (3), Fracture Filling limonite (4)	intense pervasive clay in qtz sandstone interval
JN12018	46.7	49.5	Pervasive	3	PERVASIVE Clay (4)	pervasive clay alteration in qtz sandstone
JN12018	49.5	51.5	Pervasive	3	PERVASIVE Silica (3), VEIN-HALO Sericitic (2)	pervasive silicification and common green sericite alteration along banding in contact hornfelsed siltstone at chill margin of QFP/intrusive below
JN12018	51.5	64.7	Fracture Filling	3	FRACTURE FILLING Clay (3)	common fracture fill clay with local slickensides
JN12018	64.7	65.9	Pervasive	4	Pervasive silica (4), Pervasive skarn (4), Incomplete sulphides (3)	pervasive silicification of green partially absorbed and melted skarn raft at lower QFP contact with disseminated py and pyrrhotite
JN12018	65.9	68	Pervasive	4	Pervasive skarn (4), Fracture Filling calcite (3), Incomplete sulphides (3), Fracture Filling clay (3)	garnet skarn with patches of clay gouge and bands of semimassive py/aspy/bis/pyrrhotite and blebs of moly and common calcite veining
JN12018	68	69	Pervasive	4	Pervasive clay (4), Pervasive skarn (4)	clay gouge rich fault gouge with 0.8m LOST core (20% recovery)
JN12018	69	70.2	Pervasive	3	Pervasive skarn (3), Pervasive clay (3), Incomplete sulphides (3), Incomplete carbonate (2), Incomplete clay (2)	light green skarn interval with tan carbonate/clay retrograde skarn alteration at bottom of interval with associated fine grained sulphides
JN12018	70.2	70.8	Pervasive	4	Pervasive silica (4), Incomplete sulphides (3), Incomplete carbonate (3), Incomplete clay (2), Incomplete sulphides (3)	dark grey sulphide breccia with intensely silicified matrix and retrograde skarn clasts in a sx matrix
JN12018	70.8	73.5	Selective	4	Selective clay (4), Selective sericitic (2), Fracture Filling clay (3), Fracture Filling sulphides (2), Incomplete carbonate (1), Incomplete clay (1)	clay altered QFP with felspars selectively altered to clay and lesser sericite; fine grained pyrite stringers at upper and lower contact

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	73.5	73.9	Pervasive	3	Pervasive skarn (3), Incomplete carbonate (2), Incomplete clay (2), Pervasive clay (3), Incomplete sulphides (2)	pale green skarn interval with tan carbonate/clay retrograde skarn alteration at bottom of QFP witn disseminated molybdenum throughout
JN12018	73.9	74.4	Pervasive	4	Pervasive clay (4), Fracture Filling sulphides (3), Incomplete carbonate (2), Incomplete clay (2)	clay gouge fault zone in green skarn upper contact of garnet rich skarn interval; very fine grained sulphides throughout clay gouge
JN12018	74.4	76.8	Pervasive	4	Pervasive skarn (4), Fracture Filling clay (2), Fracture Filling sulphides (2), Fracture Filling chlorite (2), Pervasive silica (2)	garnet rich skarn interval; clay coating fractures and patches of fine grained sulphides; local calcite veinlets
JN12018	76.8	81.1	Fracture Filling	2	Pervasive hornfels (4), Fracture Filling clay (2), Fracture Filling calcite (3)	dark purple weakly banded hornfels interval; highly broken with clay coating fractures
JN12018	81.1	86.5	Fracture Filling	3	Fracture Filling clay (3), Pervasive clay (2), Fracture Filling sulphides (2)	fractured and locally clay gouge rich broken/shattered light brown/grey coloured siltstone interval
JN12018	86.5	88.6	Fracture Filling	4	Fracture Filling clay (4)	gouge rich siltstone; highly broken and faulted ground core - poor recovery
JN12018	88.6	89.9	Fracture Filling	4	Fracture Filling clay (4), Pervasive hornfels (4)	gouge rich upper section of large purple banded hornfels interval
JN12018	89.9	108.3	Pervasive	4	Pervasive hornfels (4), Fracture Filling calcite (2), Fracture Filling clay (1), silica (5), argillic (4)	banded purple and green hornfels unit that grades into garnet skarn; minor calc-silicate mineral development
JN12018	108.3	114	Pervasive	4	Pervasive skarn (4), Fracture Filling clay (2), Fracture Filling calcite (1), Pervasive skarn (4), Fracture Filling clay (2), Fracture Filling calcite (1)	banded garnet rich skarn; local clay rich sections and common thin irregular calcite fracture fill
JN12018	108.3	121.8	Pervasive	4	Pervasive skarn (4), Fracture Filling clay (2), Fracture Filling calcite (1), Pervasive skarn (4), Fracture Filling clay (2), Fracture Filling calcite (1)	banded garnet rich skarn; local clay rich sections and common thin irregular calcite fracture fill

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	121.8	123	Pervasive	4	Pervasive clay (4), Fracture Filling clay (3), Pervasive skarn (4)	clay rich fault contact between garnet rich skarn and qtz pebble conglomerate downhole; 20% clay gouge recovered in core
JN12018	123	126.2	Pervasive	3	Pervasive clay (3)	clay altered qtz pebble conglomerate sequence (nice fining upward sequences preserved); white clay throughout matrix; clast supported conglomerate
JN12018	126.2	130.4	Pervasive	4	Pervasive silica (4), Selective clay (4), Fracture Filling sulphides (3), Fracture Filling clay (2)	pervasive silicification of sulphide rich coarse grained qtz pebble conglomerate - makes interval sucrosic textured with 5% open space fractures and very fine grained pyrite and ?other sulphides
JN12018	130.4	134.6	Pervasive	3	Pervasive clay (3), Fracture Filling carbonate (2), Pervasive clay (3), silica (4), clay (3), limonite (3)	clay altered qtz pebble conglomerate sequence; white clay throughout matrix in clast supported graded bedding qtz pebble comglomerate sequence
JN12018	134.6	135.6	Pervasive	4	Pervasive clay (4)	zone of intense clay gouge and replacing feldspars in faulted qtz pebble conglomerate sequence
JN12018	135.6	140.8	Pervasive	3	Pervasive clay (3)	clay altered qtz pebble conglomerate
JN12018	140.8	141.9	Selective	3	Selective chlorite (3), Selective sericitic (3), Fracture Filling clay (2), clay (3)	chlorite and lesser sericite in matrix of finer grained portion of qtz pebble conglomerate
JN12018	141.9	142.5	Pervasive	4	Pervasive clay (4), Fracture Filling clay (4)	clay gouge rich faulted zone (20cm of clay gouge perserved between 142.3-142.5m)
JN12018	142.5	150.5	Pervasive	3	Pervasive hornfels (3), Fracture Filling clay (2)	banded hornfels interval with local section of high clay content and broken
JN12018	150.5	155	Fracture Filling	4	Fracture Filling clay (4)	intensely broken and clay coated fractures of qtz pebble conglomerate and lesser qtz sandstone intervals all broken and clay coated
JN12018	155	157.5	Vein-Halo	4	Vein-Halo silica (4), Fracture Filling clay (1), Incomplete sericitic (2)	pervasive silicification of qtz pebble conglomerate related to concentration of qtz veining (sericite in qtz veins commonly)

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	157.5	157.9	Fracture Filling	3	Fracture Filling clay (3)	intensely broken qtz pebble conglomerate with greenish coloured clay coating fracture surfaces
JN12018	159.9	163	Pervasive	4	Pervasive silica (4), Incomplete sericitic (3), Fracture Filling calcite (1), Fracture Filling clay (2), Incomplete chlorite (1)	intensely silicified qtz pebble conglomerate with local discontinuous bands and patches of ragged sericite; common thin irregular calcite or clay coated fractures
JN12018	163	167.4	Fracture Filling	3	Fracture Filling clay (3), Incomplete sericitic (1), Incomplete chlorite (1), Incomplete carbonate (1), Incomplete clay (1)	crackle breccia texture created by mosaic of which clay fracture filling shattered qtz pebble conglomerate interval; minor retrograde alteration patches of matrix to qtz pebble conglomerate
JN12018	167.4	170.2	Fracture Filling	3	Pervasive hornfels (4), Fracture Filling clay (3)	hornfels that is shattered and fractured with abundant clay fracture filling with lesser calcite coating fractures
JN12018	170.2	171	Pervasive	4	Pervasive clay (4), Fracture Filling silica (3), Pervasive chlorite (2)	clay gouge rich fault zone with abundant qtz vein fragments (partially washed away) 171-12.2m LOST core
JN12018	172.1	173.3	Pervasive	3	Pervasive chlorite (2), Fracture Filling Clay (3), Pervasive clay (3), Fracture Filling silica (3)	clay rich faulted and veined qtz pebble conglomerate/fault interval with LOST core and qtz vein rubble in gouge recovered
JN12018	173.3	187.1	Fracture Filling	4	Fracture Filling clay (4), Fracture Filling silica (4), Incomplete chlorite (2)	clay rich highly broken and variably veined qtz pebble conglomerate; abundant core loss and ground rubble recovered
JN12018	187.1	187.5	Pervasive	4	Pervasive clay (4), Pervasive carbonate (3), Pervasive skarn (3)	clay gouge rich interval of retrograde skarn/altered siltstone - very soft and crumbly
JN12018	187.5	189	Pervasive	3	Pervasive clay (3), Fracture Filling clay (2), Fracture Filling calcite (3), Fracture Filling chlorite (3), Selective clay (4), Selective sericitic (2), Fracture Filling clay (3), Incomplete silica (2), Selective epidote (3)	less clay gouge rich than interval above but still fractured and shattered clay altered chlorite rich skarn

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	189	194.1	Incomplete	3	sericitic (1), Pervasive hornfels (4), Fracture Filling chlorite (3), Incomplete skarn (3)	hornfels banding being replaced by dark green chlorite and prograde skarn at low angle to core axis
JN12018	194.1	195	Incomplete	3	Pervasive skarn (4), Incomplete retrograde (3)	dark green pyroxene/garnet/chlorite skarn being altered to carbonate/clay retrograde skarn
JN12018	195	197	Pervasive	4	Pervasive retrograde (4), Pervasive clay (4)	tan coloured retrograde carbonate/clay altered skarn interval; very clay rich
JN12018	197	197.6	Incomplete	3	Incomplete sulphides (3), Pervasive retrograde (4)	dark grey semi-massive sulphide replacement of retrograde skarn
JN12018	197.6	204.9	Pervasive	4	Selective clay (4), Fracture Filling clay (2), Selective sericitic (4), Incomplete calcite (4), Pervasive retrograde (4), Fracture Filling sulphides (2), Pervasive retrograde (4), Fracture Filling sulphides (3), Patchy magnetite (3)	tan coloured retrograde carbonate/clay altered skarn interval; clay rich; concentrated magnetite and sulphides between 201.5-202 and 202.7-203m
JN12018	197.6	201.5	Pervasive	4	Selective clay (4), Fracture Filling clay (2), Selective sericitic (4), Incomplete calcite (4), Pervasive retrograde (4), Fracture Filling sulphides (2), Pervasive retrograde (4), Fracture Filling sulphides (3), Patchy magnetite (3)	tan coloured retrograde carbonate/clay altered skarn interval; clay rich
JN12018	204.9	209.3	Pervasive	4	Pervasive skarn (4), Fracture Filling chlorite (4), Patchy magnetite (4), Fracture Filling sulphides (2)	dark green skarn with irregular patches of semi to massive sulphide as magnetite dominant with local pyrrhotite and rare pyrite stringers
JN12018	209.3	209.9	Pervasive	4	Patchy magnetite (2), Pervasive retrograde (4)	zone of retrograde alteration in a larger prograde skarn with massive to semimassive magnetite bands that appear to be replaced by the retrograde skarn alteration

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	209.9	215.8	Pervasive	4	Pervasive skarn (4), Fracture Filling chlorite (4), Vein-Halo sulphides (3), Patchy magnetite (2)	green prograde skarn altered interval with discontinuous and very factured and partially replaced garnet beds; intense chl and qtz sheeted thin veining to 213m
JN12018	215.8	219.6	Pervasive	4	Pervasive skarn (4), Patchy sulphides (4), Patchy magnetite (3)	very sulphide and magnetite rich zone within prograde skarn
JN12018	219.6	222.3	Pervasive	4	Pervasive skarn (4), Fracture Filling chlorite (4), Corrosive garnet (3), Corrosive magnetite (2)	dark green pyroxene/chlorite and brown garnet rich skarn with intense chlorite fracture fill and alteration of garnets
JN12018	222.3	223.9	Pervasive	4	Pervasive retrograde (4), Selective clay (3), Selective hematite (3), Patchy chlorite (1)	tan retrograde skarn interval of carbonate/clay with clay gouge between 222.6-223m
JN12018	223.9	224.2	Pervasive	4	Pervasive carbonate (5), Pervasive clay (4), Incomplete sulphides (3), Pervasive retrograde (4), Patchy sulphides (4)	tan retrograde skarn with intense concentration of semimassive very fine grained sulphides (mostly pyrite)
JN12018	224.2	225.3	Pervasive	4	Pervasive clay (4), Fracture Filling sulphides (2), Pervasive retrograde (4), Pervasive clay (4), Fracture Filling sulphides (2)	retrograde very clay rich interval (almost gouge in places and crumbly)
JN12018	225.3	228	Pervasive	4	Pervasive skarn (4), Patchy magnetite (3), Fracture Filling calcite (1)	dark green locally very magnetite rich prograde pyroxene skarn
JN12018	228	228.4	Pervasive	4	Pervasive retrograde (4), Selective sulphides (1)	retrograde skarn interval with semimassive sulphides/magnetite and native bismuth/bismuthinite/moly/cpy in qtz veins
JN12018	228.4	230	Pervasive	4	sericitic (1), calcite (1), epidote (1), Pervasive retrograde (4), Selective sulphides (1), Patchy magnetite (2)	zone of intensely qtz veined tan coloured retrograde altered skarn
JN12018	230	231	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (4)	retrograde skarn with intense concentration of pyrite stringers with chalcopyrite and moly…

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	231	244.7	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (3), Patchy magnetite (1)	retrograde skarn with 1m sized zones of intense pyrite and fine grained sulphides and local magnetite stringers
JN12018	244.7	249.9	Pervasive	4	Pervasive skarn (4), Patchy magnetite (3), Vein-Halo chlorite (3), Fracture Filling chlorite (2)	green prograde skarn of pyroxene/chlorite with patches of remnant magnetite; cut by white and grey qtz stringers
JN12018	249.9	254	Pervasive	4	Pervasive skarn (4), Patchy magnetite (3), Vein-Halo chlorite (3), Fracture Filling chlorite (2)	green prograde skarn of pyroxene/chlorite with patches of remnant magnetite; cut by white and grey qtz stringers with minor tungsten noted with UV lamp
JN12018	254	260	Pervasive	4	Pervasive retrograde (4), Pervasive clay (5), Patchy sulphides (2)	retrograde skarn interval; very clay rich; with aspy/pyrite bands (and bismuthinite in sheeted qtz veins)
JN12018	260	262.1	Pervasive	4	Pervasive skarn (4), Fracture Filling chlorite (3), Vein-Halo hematite (1), Patchy garnet (2)	prograde pyroxene skarn with altered discontinuous garnet bands; abundant chlorite and local hematite
JN12018	262.1	262.6	Pervasive	4	Pervasive retrograde (4), Pervasive chlorite (2), Fracture Filling sulphides (1)	retrograde upper contact to QFP below; pyrite coates fracture surfaces
JN12018	262.6	264.4	Selective	4	Selective clay (4), Fracture Filling sulphides (3)	QFP that is intensely veined by variably sulphide rich sheeted and qtz stockwork veins and feldspars altered to clay
JN12018	264.4	264.9	Selective	3	Patchy retrograde (3), Fracture Filling sulphides (1)	retrograde skarn/QFP lower contact zone with patches of tan carbonate alteration; interval is mottled with ghost feldspar phenocrysts
JN12018	264.9	265.8	Pervasive	4	Pervasive retrograde (4), Pervasive clay (4)	retrograde skarn interval that is very clay rich and locally crumbly
JN12018	265.8	267.8	Pervasive	4	Pervasive skarn (4), Fracture Filling chlorite (3), Patchy hematite (3)	pyroxene skarn intercal with 7 sheeted qtz veins with local native bismuth in qtz; hematite in 3cm sized swirls (after magnetite?)

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	267.8	269.5	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (4), Selective silica (4)	zone of retrograde skarn interval with large qtz and sulphide rich zones including py/bismuthinite/chalcopyrite/moly
JN12018	269.5	276.6	Pervasive	4	Pervasive retrograde (4), Patchy magnetite (4), Patchy sulphides (3)	retrograde skarn interval with large patches of magnetite and local semimassive pyrite bands and common pyrite stringers
JN12018	276.6	281	Pervasive	4	Pervasive skarn (4), Patchy magnetite (3), Fracture Filling chlorite (3), Corrosive garnet (2)	prograde pyroxene skarn interval with bands of fine grained magnetite overprinted by pyrrhotite - magnetite being replaced?
JN12018	281	284.5	Pervasive	4	Pervasive clay (4), Pervasive retrograde (4)	retrograde skarn interval with local thin qtz (and rare moly veinlets) in very clay rich retrograde skarn interval
JN12018	284.5	286.4	Pervasive	3	Pervasive clay (3), Pervasive retrograde (3), Pervasive skarn (3), Selective chlorite (2), Fracture Filling clay (3)	transition zone between clay altered retrograde skarn and silicified hornfels metasediments below
JN12018	286.4	286.8	Pervasive	3	Pervasive skarn (3), Patchy biotite (1)	silicified mottled green skarn interval to hornfels downhole; end of major magnetite skarn zone that is variably retrograde altered and mineralized
JN12018	286.8	287.5	Pervasive	4	Selective silica (2), Selective carbonate (3), Patchy biotite (3), Pervasive hornfels (4)	dirty dark brown weakly silicified hornfels with calcareous matrix which deminishes downhole -- protolith difficult to determine - sediment or mafic dyke??
JN12018	287.5	300.2	Pervasive	4	Pervasive hornfels (4), Patchy biotite (2), Patchy silica (1), Patchy sericitic (1), Fracture Filling calcite (1)	hornfels fine grained medasediments with irregular patches of purple bands in green strongly qtz veined sediments; minor pyrite fracture fill
JN12018	300.2	300.9	Pervasive	3	Pervasive skarn (3), Patchy chlorite (4), Pervasive silica (4), Patchy sericitic (3), Fracture Filling calcite (1)	local skarned interval dark green chlorite/pyroxene/sericite silicified; irregular dark green chlorite patches and discontinuous stringers and alteration envelopes to qtz stringers cutting interval with minor pyrite

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12018	300.9	302.7	Patchy	4	Pervasive hornfels (4), Fracture Filling calcite (3), Fracture Filling tourmaline (2), Patchy sulphides (1)	hornfels siltstone cut by network of thin calcite veinlets and pyritic qtz rich tourmaline breccia zone between 301.9-302.1m
JN12018	302.7	304.3	Pervasive	3	Pervasive hornfels (3), Pervasive silica (3), Fracture Filling calcite (2)	silicified grainier hornfels metasediments; lighter coloured with patchy qtz vein and silicified zones
JN12018	304.3	304.7	Pervasive	4	Pervasive sericitic (4), Pervasive silica (4), Pervasive hornfels (4)	light green sericite altered silicified fragments of hornfels qtz sandstone in qtz vein interval
JN12018	304.7	312	Pervasive	3	Pervasive hornfels (3), Pervasive silica (3), Fracture Filling calcite (1), Patchy biotite (2)	EOH 312m; coarser grained hornfels with 3cm wide tourmaline/qtz/pyrite vein/breccia zone between 306.1-307m; local qtz vein with pyrite and pyrrhotite especially near 309, 309.6 and 311.8m
JN12019	17.1	175.2	Pervasive	4	Pervasive clay (4), Pervasive skarn (3), Selective garnet (2), Pervasive chlorite (3)	clay rich transition to retrograde skarn down hole; chlorite rich crumbly with remnant garnets in clay
JN12019	39.5	45	Selective	4	Selective clay (3), Fracture Filling limonite (4)	faulted zone of broken qtz pebble conglomerate at top of hole; ??bedrock; common clay gouge
JN12019	45	45.8	Pervasive	4	sericitic (4), limonite (3), Pervasive carbonate (4), Pervasive clay (4), PERVASIVE chlorite (3), Pervasive clay (4), Fracture Filling limonite (4)	intense clay in fault zone where core is shattered into 2cm2; rusty qtz pebble conglomerate fragments
JN12019	45.8	46.6	Selective	3	PERVASIVE Clay (4), FRACTURE FILLING Silica (2), Selective clay (3), Fracture Filling limonite (4)	clay after ?feldspars in rusty fractured qtz pebble conglomerate
JN12019	46.6	48	Pervasive	4	Pervasive silica (4), Patchy sulphides (4), Fracture Filling limonite (2), Selective clay (2)	silicified dark grey qtz pebble conglomerate with 5-10% fine grained pyrite in matrix of conglomerate
JN12019	48	49.8	Fracture Filling	3	Fracture Filling sulphides (3), Fracture Filling limonite (3)	intense pyrite filling fractures and discontinuous stringers in fine grained siltstone interbed; rusty fractures

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12019	49.8	50.9	Patchy	4	Pervasive silica (4), Patchy sulphides (4), Fracture Filling limonite (2), Selective clay (2)	intensely silcified and qtz veined qtz pebble conglomerate with fine grained pyrite in matrix of conglomerate
JN12019	50.9	57.1	Patchy	4	Patchy clay (4), Fracture Filling limonite (4)	patches of clay gouge in matrix of broken qtz pebble conglomerate; clay is limonitic - becomes washed away during drilling…
JN12019	58.4	60	Selective	3	Selective clay (3), Fracture Filling limonite (1)	clay after ??feldspars in matrix of qtz pebble conglomerate - core becomes intensely ground and washed during reaming and trying to advance casing…
JN12019	70.6	71.4	Pervasive	4	Pervasive clay (3), Pervasive limonite (4), Fracture Filling sulphides (2)	start of large clay rich fault breccia zone; limonitic clay rich siltstone - crumbly
JN12019	71.4	75	Pervasive	2	Pervasive clay (3), Fracture Filling sulphides (3), Pervasive sericitic (2)	more competent less clay rich pyritic siltstone interval
JN12019	75	85.7	Pervasive	4	sericitic (3), calc silicate (2), Pervasive clay (4), Patchy graphite (4), Patchy sulphides (3), Patchy limonite (2)	pervasive clay alteration and gouge in fault breccia
JN12019	85.7	87.5	Patchy	2	Patchy clay (2), Patchy sulphides (1), Patchy graphite (1)	competent less clay rich siltstone interval in mists of graphitic/pyritic fault gouge/breccia zone
JN12019	87.5	91	Pervasive	4	Pervasive clay (4), Pervasive graphite (4), Patchy sulphides (2)	graphitic gouge rich interval with fine grained pyrite locally in gouge
JN12019	91	92.4	Fracture Filling	2	Fracture Filling graphite (2), Pervasive clay (1), Patchy sulphides (1)	graphite in broken interval in a dominantly competent siltstone raft within graphitic fault breccia
JN12019	92.4	95.4	Pervasive	4	Pervasive graphite (4), Patchy sulphides (3), Pervasive clay (4)	graphitic gouge rich interval with common fine grained disseminated pyrite in matrix of breccia
JN12019	95.4	96	Pervasive	4	Pervasive retrograde (4), Pervasive clay (4), Fracture Filling limonite (2), Fracture Filling sulphides (2)	retrograde skarn with pervasive clay alteration and common pyrite stringers giving brecciated texture

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12019	96	99.8	Pervasive	4	Pervasive retrograde (4), Pervasive clay (4), Selective magnetite (3), Patchy sulphides (2)	retrograde skarn with common sections of clay gouge (talc) with bands of oxidized magnetite
JN12019	102	105.1	Pervasive	4	Pervasive clay (5), Pervasive carbonate (4), Selective limonite (4), Pervasive retrograde (4), Pervasive clay (4), Patchy magnetite (3), Patchy sulphides (2)	retrograde skarn with common sections of clay gouge (talc) and concentrated magnetite between 103.2-103.5m
JN12019	105.1	110.5	Selective	4	Selective clay (3), Selective sericitic (3), Incomplete silica (2), Pervasive retrograde (2), Pervasive skarn (4), Selective garnet (3), Pervasive clay (4), Fracture Filling hematite (3), Patchy chlorite (2), Patchy epidote (1)	banded clay rich skarn interval with local garnet bands, local clay gouge intervals, and common hematite staining ?retrograde skarn
JN12019	112	112.5	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (3), Pervasive clay (4), Patchy garnet (1)	retrograde skarn wth dark grey sulphide patches and pyrite stringers with local patches of irregular shaped qtz vein fragments
JN12019	112.5	117.5	Pervasive	3	Pervasive clay (3), Patchy garnet (4), Fracture Filling sulphides (2), Pervasive retrograde (3)	clay altered garnet rich skarn interval ??possible retrograde but difficult to tell due to clay content of matrix in garnet rich area
JN12019	117.5	118	Pervasive	4	Fracture Filling sulphides (3), Patchy garnet (4), Pervasive retrograde (3)	?retrograde skarn interval with common fine grained sulphides on fractures in garnet rich skarn
JN12019	118	118.8	Pervasive	3	Pervasive clay (3), Patchy garnet (4), Pervasive retrograde (3)	clay altered garnet rich skarn interval ??possible retrograde skarn alteration - clay makes it difficult to tell if true retrograde or not
JN12019	118.8	121.4	Pervasive	4	Pervasive skarn (4), Patchy garnet (4), Fracture Filling chlorite (4), Vein-Halo hematite (2)	pyroxene skarn with patches of garnet far less clay altered interval, minor hematite; abundant chlorite fracture fill

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12019	121.4	122	Pervasive	3	Pervasive clay (3), Patchy garnet (4), Pervasive retrograde (3)	clay altered garnet rich skarn interval; ??possible retrograde but clay makes it difficult to determine if true retrograde or not
JN12019	122	122.5	Pervasive	4	Pervasive skarn (4), Patchy garnet (4), Fracture Filling chlorite (3), Fracture Filling calcite (1), Vein-Halo epidote (1)	pyroxene skarn competent section of garnet and chlorite rich patches; common very thin calcite wisps
JN12019	122.5	133.8	Pervasive	3	Pervasive clay (3), Patchy garnet (4), Fracture Filling chlorite (3), Vein-Halo hematite (3), Pervasive retrograde (3), Vein-Halo epidote (1)	clay altered garnet interval with common chlorite fracturefill and zones of moderate hematite staining; ??true retrograde?
JN12019	133.8	134.4	Pervasive	4	Pervasive skarn (4), Patchy garnet (4), Fracture Filling chlorite (3), Fracture Filling calcite (1), Vein-Halo hematite (1)	pyroxene skarn competent section of garnet and chlorite rich skarn; common thin calcite veinlets with hematite selvages
JN12019	134.4	135	Pervasive	3	sericitic (4), limonite (1), Pervasive clay (3), Patchy garnet (4), Fracture Filling chlorite (3), Pervasive retrograde (3)	clay altered garnet rich skarn interval ??retrograde or just clay altered skarn?
JN12019	135	135.9	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (3)	true retrograde carbonate/clay altered skarn with fine grained sulphides increasing in concentration from 135.6-135.9m
JN12019	135.9	136.5	Pervasive	5	Pervasive sulphides (5), Pervasive retrograde (5)	massive fine grained pyrite in tan retrograde skarn interval
JN12019	136.5	137.5	Pervasive	4	Pervasive retrograde (4), Pervasive limonite (4), Fracture Filling hematite (1), Fracture Filling sulphides (2), Pervasive clay (4)	clay gouge rich faulted retrograde skarn interval with intense limonite/goethite and rare hematite stained
JN12019	137.5	146	Pervasive	4	sericitic (1), Pervasive retrograde (4), Patchy sulphides (4), Patchy clay (3)	tan retrograde skarn with common dark grey fine grained pyrite patches and concentrated pyrite between 140.9-141.8m; clay rich lower contact

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12019	146	147.6	Pervasive	4	Pervasive skarn (4), Vein-Halo hematite (3), Fracture Filling chlorite (2)	prograde pyroxene and garnet skarn; common hematite staining as thin alteration envelopes to chlorite fracture fill; rare patchy silicification
JN12019	147.6	149.4	Pervasive	4	Pervasive clay (4), Pervasive retrograde (4), Selective garnet (3), Selective sulphides (3), Selective chlorite (3)	clay gouge rich garnet interval with a core of retrograde skarn with abundant fine grained pyrite in qtz vein materal between 148.3-148.8m
JN12019	149.4	156	Pervasive	4	Pervasive skarn (4), Selective garnet (3), Patchy silica (4), Fracture Filling chlorite (3), Vein-Halo hematite (2)	silicified prograde pyroxene skarn with common broken garnet bands and qtz/calcite + tungsten veinlets; common chlorite fracture fill with hematite alteration envelopes
JN12019	158	158.2	Pervasive	4	Pervasive clay (4), Pervasive retrograde (3), Patchy garnet (3), Fracture Filling sulphides (1)	transition from prograde to retrograde skarn in clay altered skarn with 20% remnant garnet bands; major core loss here
JN12019	158.2	158.9	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (2)	retrograde skarn with increasing concentration of fine grained sulphides to massive sulphides downhole
JN12019	158.9	160	Pervasive	4	Massive sulphides (4), Pervasive retrograde (4)	zone of concentrated fine grained pyrite wit pyrrhotite and lesser chalcopyrite; arsenopyrite and trace bismuthinite in qtz rich interval
JN12019	160	162.8	Pervasive	4	Pervasive retrograde (4), Patchy sulphides (2)	retrograde skarn interval with intense network of sheeted thin qtz stringers and irregular patches of fine grained pyrite as fracture fill
JN12019	162.8	163.4	Pervasive	4	Massive sulphides (4), Pervasive retrograde (4)	sulphide rich zone in retrograde skarn
JN12019	163.4	164.4	Pervasive	4	Pervasive clay (4), Pervasive retrograde (4), Fracture Filling sulphides (2)	clay rich crumbly retrograde skarn with significant core loss - end of large retrograde skarn with sulphide mineralization

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12019	164.4	173	Pervasive	4	Pervasive skarn (4), Patchy actinolite (1), Selective garnet (3), Fracture Filling calcite (1), Fracture Filling sulphides (1)	prograde pyroxene skarn poorly mineralized/veined interval with common garnet bands and calcite local veinlets with associated fine grained pyrite
JN12019	173	174.1	Pervasive	3	Pervasive clay (3), Pervasive skarn (3), Selective garnet (2), Fracture Filling sulphides (2)	clay rich transition to retrograde skarn and massive sulphides downhole; local remnant garnets and chlorite in clay; minor sulphides at 173.5m
JN12019	174.1	174.7	Pervasive	4	Pervasive skarn (4), Fracture Filling chlorite (3), Selective garnet (2), Vein-Halo hematite (2), Fracture Filling calcite (1), sericitic (1)	competent section of prograde pyroxene skarn; abundant chlorite and local hematite staining
JN12019	175.2	175.5	Pervasive	4	Pervasive clay (4), Pervasive retrograde (4), sericitic (4)	retrograde skarn that is clay rich; hanging wall to massive sulphides down hole
JN12019	175.5	177.8	Pervasive	4	Massive sulphides (4), Pervasive retrograde (4)	massive sulphides in retrograde skarn; intensely veined by sheeted qtz veins
JN12019	177.8	178.5	Pervasive	4	Pervasive clay (4), Pervasive retrograde (4), Selective sulphides (3)	clay rich faulted interval of retrograde skarn with common disseminations of fine grained pyrite and local qtz veining
JN12019	178.5	179.9	Pervasive	4	Massive sulphides (4), Pervasive retrograde (4)	massive fine grained pyrite and lesser pyrrhotite in qtz rich veined retrograde skarn
JN12019	179.9	184.1	Pervasive	4	Pervasive skarn (4), Vein-Halo sulphides (3)	prograde massive pyroxene skarn cut by common pyrrhotite and qtz veins with local chalcopyrite rimming pyrrhotite
JN12019	184.1	190.6	Pervasive	4	Pervasive skarn (4)	poorly mineralized massive section of pyroxene skarn
JN12019	190.6	193.2	Pervasive	4	actinolite (4), silica (2), calcite (0), Pervasive skarn (4), Fracture Filling sulphides (4)	quartz veined prograde skarn with polymetallic minerals in the vein, also sheeted fracture fill pyrrhotite veins cutting core.
JN12019	193.2	194.2	Pervasive	4	Pervasive retrograde (4)	retrograde skarn proximal to polymetallic quartz veins, irregular fluid flow contacts with pyroxene skarn.

DDH_ID	From(m)	To(m)	Texture	Intensity	Alt Desc	Notes
JN12019	194.2	194.8	Vein-Halo	5	Vein-Halo silica (4), Veined sulphides (4)	silica altered retrograde skarn proximal to polymetallic quartz vein.
JN12019	194.8	198.3	Pervasive	4	Pervasive skarn (4), Pervasive silica (4), Selective sulphides (2), Selective sericite (2), Selective garnet (2), Selective chlorite (3)	Contact zone of the intrusive down hole, mineralized, intensely silicified
JN12019	198.3	207.2	Vein-Halo	3	Vein-Halo sericite (3), Patchy silica (3), Fracture Filling chlorite (2), Selective hornfels (3)	granodiorite with sheeted quartz veins and sericite alteration envelopes, common chlorite fracture fill, mineralization associated with the veins, patchy silicification.
JN12019	207.2	210	Pervasive	4	Pervasive silica (4), Pervasive hornfels (4)	EOH - 210.0 meters. Intensely silicified, hornfels contact zone with granodiorite.

Appendix 4.1.2 - Lithology

30-Oct-12
1:51:00 PM

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12011	0	18.8	overburden						casing 60'; OVB to 18.8m
JN12011	18.8	19.4	siltstone	sandstone	grey green	orangish	fine	bedded	grey green siltstone with coarser interbeds of qtz rich sandtone; surface oxidation
JN12011	19.4	19.5	fault	gouge	grey		fine		small shear; gouge with qtz frags; upper contact 60 TCA
JN12011	19.5	23.4	sandstone	siltstone	grey	grey green	fine	interbedded	fine qtz grains with darker green/grey chlorite and clay rims gives core spotted appearance; late green chlorite and white clay sub// to core axis; trace pyrite
JN12011	23.4	24	calc-silicate rock	calcareous siltstone	green purple	grey	very fine	banded	banded purple and green calc-silicate interval with trace actinolite in chlorite/qtz rich rock with thin veinlets of magnetic phyrrotite up to 1%
JN12011	24	27.8	siltstone	siltstone	grey green	grey green	fine	interbedded	interbedded siltstone and sandstone; rip up clasts and soft sediment deformation at 26.7m; moderate to intense pervasive silicification (increases downhole); local white calcite stringers oriented core (alpha 30, beta 110); bedding at 26.5m alpha 65, beta 255 on core stand RHRule gives 195/51
JN12011	27.8	33.1	siltstone	sandstone	greenish	greenish	fine	interbedded	broken very clay rich intervaly of interbedded mostly siltstone with minor coarser sandstone sized particles in <20cm beds; 30.5-30.8m is darker grey due to f.g. py but still very clay altered
JN12011	33.1	38.6	lost						LOST 5.5m; technical problems with the backend tab of core barrel causing core tube not to lock; 5.5m core lost at this location!....drillers ended up cutting off the tab and things improved
JN12011	38.6	39	fault	siltstone	greenish	grey	very fine	fractured	clay gouge rich faulted zone with 30% remnant very clay rich siltstone; limonite stained with local hematite bands; no structure as core too crumbly or gougy
JN12011	39	40	hornfels	skarn	green brown		medium	banded	light brown garnet and dark green chlorite/pyroxene skarn interval with 1% pyrrhotite and 0.5% moly blebs
JN12011	40	42	lost						LOST 2.0m; technical problems with the backend tab on core barrel (see note above)
JN12011	42	42.1	calcareous siltstone	siltstone	green purple	greenish	fine	banded	broken silicified weakly skarnified calcareous siltstone with interbeds of siltstone; common clay along fractures
JN12011	42.1	45	lost						LOST 2.9m; technical drilling problems (see note above)
JN12011	45	46	calcareous siltstone	siltstone	green purple	green	fine	fractured	silicified weakly skarnified calcareous siltstone with interbeds of siltstone; broken and qtz flooding/veining between 45.5-45.9m with assoc po, py
JN12011	46	48	lost						LOST 2.0m; technical drilling problems (see note above)
JN12011	48	48.7	calcareous siltstone	siltstone	green purple	green	fine	banded	silicified weakly skarnified calcareous siltstone with interbeds of siltstone
JN12011	48.7	50.3	lost						LOST 2.3m; technical drilling problems (see note above)
JN12011	50.3	52.5	calcareous siltstone	siltstone	green purple	green	fine	banded	banded weakly skarnified calcareous siltstone with patches of pervasive moderate clay alteration and patchy silicification; common ragged white calcite fracture fill at various angles to core axis; epidote becomes more common downhole and is in irregular shaped patches
JN12011	52.5	54	lost						LOST 1.5m; good competent core but still 1.5m LOST due to technical issue with back end of core barrel (see note on lost core above)
JN12011	54	58.9	calcareous siltstone		green purple		fine	banded	skarning increases downhole with alternating purple and green bands and patches of epidote locally along remnant bedding or in irregular patches; clay is pervasive as well as coating fractures; local brittle fracturing and offsets (dominantly dextral <2cm offsets);
JN12011	58.9	60	lost						LOST 1.1m; blocky core but 1.1m LOST due to problems with the drilling equipment (see above)

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12011	60	60.4	fault		tan				gougy zone of broken banded skarnified calcareous siltstone; core is rubble so no measurements taken (20% gouge)
JN12011	60.4	62.4	calcareous siltstone		green purple		fine	banded	banded calcareous siltstone unit with introduction of medium brown garnet bands up to 3cm wide and increase in concentration of epidote bands; common calcite late fracture fill at various angle to core axis; common brittle micro faulting
JN12011	62.4	70.2	hornfels	skarn	green purple		medium	banded	banded garnet rich skarn with alternating green and brown bands up to 3cm wide; common microfracturing and calcite along fractures // bands and at 20 degrees to core axis
JN12011	70.2	70.7	fault						clay gouge rich broken interval of skarned calcareous siltstone - then into 4.2m LOST core so no measurements taken in fault zone
JN12011	70.7	74.9	lost						LOST 4.2m; significant hardness change from skarn to clay altered quartz pebble conglomerate so 4.2m core washed away
JN12011	74.9	75.4	quartz pebble conglomerate		white		coarse	pebble	white clay altered quartz pebble conglomerate (completely clay altered feldspars); grey quartz grains up to 6mm; crumbly locally porous interval
JN12011	75.4	76.8	lost						LOST 1.4m; drillers washed core away in clay rich zone
JN12011	76.8	78	quartz pebble conglomerate		white		coarse	pebble	white clay altered quartz pebble conglomerate with all feldspars replaced by white (?Kaolinite) clay; looks porous and crumbly with grey qtz grains up to 6mm
JN12011	78	78.9	lost						LOST 0.9m; drillers washed core away in clay rich zone
JN12011	78.9	85.1	quartz pebble conglomerate		white		coarse	pebble	white clay altered quartz pebble conglomerate with various sized grey glassy qtz grains up to 7mm wide; crumbly locally; all feldspars altered to clay
JN12011	85.1	89	calcareous siltstone	quartz pebble conglomerate	green purple	white	fine	banded	very clay altered banded calcareous siltstone interbed between two sections of much coarser qtz grit below and qtz pebble conglomerate above; @ 88.3m is a 8 cm interbed of
JN12011	89	92.2	sandstone		white		medium	massive	white medium grained quartz sandstone similar to the qtz pebble conglomerate but without the large grey qtz grains; upper and lower contacts are conformable
JN12011	92.2	93.7	fault	gouge	tan	tan	fine	sheared	sheared locally gouge rich interval of intense clay altered quartz grit; rubble fragments up to 3cm2; crumbly
JN12011	93.7	94.7	lost						LOST 1.0m; significant hardness change between clay rich fault zone and quartz vein so drilled LOST 1.0 meters of core
JN12011	94.7	94.9	vein	vein	white	white	fine	massive	bull white to glassy quartz vein rubble (3cm2 fragments) recovered in clay rich fault zone
JN12011	94.9	95.9	lost						LOST 1.0m; significant hardness change from quartz vein to clay rich sediments so drillers LOST 1.0m of core
JN12011	95.9	97.3	fault	gouge	grey	tan	grit	brecciated	sheared and fractured zone with clay gouge and qtz vein rubble as well as brecciated f.g. py rich qtz sandstone fragments
JN12011	97.3	110.7	quartz pebble conglomerate	sandstone	white	tan	coarse	graded (normal)	well bedded with distinct grading upwards intervals of 2m wide coarse qtz pebble conglomerate grading/fining upwards to fine qtz sandstone; cycles are repeated
JN12011	110.7	115.9	calcareous siltstone	skarn	grey	dark	fine	veined	start of skarn zone with semi massive fine grained sulphides in an altered calcareous siltstone; py dominates sx as euhedral and fg stringers and fracture fills; common open space
JN12011	115.9	117.2	massive sulphide	calcareous siltstone	brass	grey green	fine	massive	massive sulphides, py dominant with pyrrhotite; minor chalcopyrite
JN12011	117.2	118.3	skarn	calcareous siltstone	buff	grey green	fine	banded	buff to pale green/grey banded highly fracturedand altered ?calcareous siltstone with very fine grained thin stringers and irregular patches of dull red hematite staining

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12011	118.3	118.7	skarn	quartz pebble conglomerate	red	buff	coarse	banded	dull earthy red and limonitic banded qtz grain rich altered qtz pebble conglomerate with abundant fe oxide +(?hematite) staining and blebby po along ?bedding/foliation planes
JN12011	118.7	120.1	skarn	calcareous siltstone	tan	buff	fine	banded	buff to grey banded highly clay altered calcareous siltstone with patches of very fine grained sulphides and 2cm wide py stringers
JN12011	120.1	120.7	skarn	massive sulphides	dark grey	dark grey	fine	massive	massive sulphides py dominate,po; banded with very thin tan calcite veinlets; banding equals questionable bedding, rare open space
JN12011	120.7	121.3	skarn	calcareous siltstone	tan	tan	fine	retrograde	retrograde skarn interval; buff to grey banded highly clay altered calcareous siltstone with patches of very fine grained sulphides and 2cm wide py stringers
JN12011	121.3	122.6	skarn	massive sulphdes	dark grey	dark grey	fine	massive	massive sulphides py dominate,po; banded with very thin tan calcite veinlets; banding equals questionable bedding
JN12011	122.6	124.9	skarn	calcareous siltstone	buff	buff	fine	retrograde	retrograde carbonate/clay skarn interval; highly altered banded calcareous siltstone cut by common py stringers and semimassive patches of sulphides; local hemitite staining
JN12011	124.9	126	skarn	massive sulphide	brass	brass	fine	massive	massive py highly fractured minor cpy; common open space; patchy po
JN12011	126	127.8	lost						LOST 1.8m; reground core and rubble recovered in box below lost section
JN12011	127.8	128.3	skarn		black		fine	brecciated	black graphitic and siliceous material with 10% open space; rubble; difficult to tell protolith, angular sulphide fragments in a black graphitic and siliceous matrix; patches of py
JN12011	128.3	129.3	skarn	massive sulphide	brass	brass	fine	brecciated	massive pyrite with sections of black graphitic breccia as described btwn 127.8-128.3m and large cm sized pitted (?sx clasts)
JN12011	129.3	131	lost						LOST 1.3m; crumbly ground core after lost section
JN12011	131	131.6	skarn	massive sulphide	dark grey	dark grey	fine	brecciated	black to dark grey graphitic and siliceous matrix with large angular sulphide fragments (f.g. py); very pitted basalt like appearance
JN12011	131.6	133.4	skarn	massive sulphide	brass	brass	fine	massive	massive pyrite with 5% grey wispy graphitic? Layers of very fine grained sulphides
JN12011	133.4	140.5	skarn	semi-massive sulphide	brass	grey green	fine	massive	zone of massive sulphides (dominantly py) with tan sections of highly altered pyrite veined ?calcareous siltstone; quartz veinlets at 135.2m and magnetite skarn at 136m
JN12011	140.5	140.8	fault	skarn	grey	tan	fine	brecciated	highly fractured clay with fault breccia; contact between massive sulphides and retrograde skarn of calcareous sltst
JN12011	140.8	143	skarn	calcareous siltstone	tan	tan	fine	crackled	retrograde skarn; tan coloured altered cal SLT with fine py stringers
JN12011	143	144.2	skarn	calcareous siltstone	grey	tan	fine	veined	semimassive py patches and stringers in calc sltst
JN12011	144.2	145.5	skarn	calcareous siltstone	tan	tan	medium	foliated	retrograde skarn of carbonated/clay altered sediments; tan foliated ?calc SLT/?interbedded quartz pebble conglomerate with stretched qtz grains up to 1cm giving core a foliated appearance
JN12011	145.5	155.3	skarn	massive sulphide	dark grey	dark grey	fine	massive	massive sulphide composed of py>po; interval badly ground with significant core loss; common fractures with open space
JN12011	155.3	159	skarn	massive sulphide	dark grey	dark grey	fine	banded	magnatite skarn in ??cal SLT with po patches being replaced by fg py (magnatite also being replaced by py?); 10% tan skarned intervals; ubiquitous fg py stringers; sheeted qtz veins throughout
JN12011	159	169.5	skarn	massive sulphide	dark grey	dark grey	fine	massive	massive sulphides consisting of dominantly py; interval hosts sheeted qtz veins and qtz breccias; abundant open space giving porous look; cpy,py,bi, observed
JN12011	169.5	170.6	skarn	calcareous siltstone	tan	tan	fine	crackled	retrograde carbonate/clay skarn; tan coloured ??calc SLT with fg py stringers(possible QFP?? relic clay altered qtz eyes?? Or retrograde skarn of qtz pebble conglomerate with remnant qtz grains most likely)

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12011	170.6	170.9	skarn	calcareous siltstone	grey	tan	fine	fractured	semimassive fg py in clay altered calc siltstone
JN12011	170.9	172	skarn	calcareous siltstone	tan	tan	fine	retrograde	retrograde carbonate/clay skarn; tan coloured ??calc SLT protolith with fine grained py wisps and thin stringers and possible other very fine grained sulphides ; less sx rich interval than massive sx on either side of unit
JN12011	172	172.4	skarn	massive sulphide	brass	brass	fine	massive	massive sulphide composed of py>po and cpy with abundant qtz as discontinuous stringers and patches throughout; Bi noted on XRF
JN12011	172.4	172.8	skarn	calcareous siltstone	tan	tan	fine	retrograde	semimassive irregular patches of sx in tan coloured retrograde skarn (??cal SLT protolith) interval within a zone of massive sulphide
JN12011	172.8	175.5	skarn	massive sulphide	brass	brass	fine	massive	massive py with increasing amounts of white qtz as subrounded patches throughout (silica increases downhole at this bottom end of the large skarn zone)
JN12011	175.5	176.9	skarn	massive sulphide	brass	brass	fine	veined	high concentration of white qtz veins cutting the massive sulphides; core is highly broken; multigenerations of sulphides including bi
JN12011	176.9	177.5	skarn	calcareous siltstone	tan	tan	fine	mottled	tan coloured retrograde carbonate/clay skarn/?? Calc silicate with patches of vfg sulphides
JN12011	177.5	178	skarn	massive sulphide	dark grey	dark grey	fine	massive	py rich massive sulphides pitted with qtz and clay blebs throughout highly fractured interval
JN12011	178	185	skarn	quartz feldspar porphyry	tan	tan	medium	altered	carbonate/clay retrograde skarn interval; mottled with circular clay 1mm pits in a tan fg matrix; remnant quartz grains (??eyes); fracture coating and irregular patches as fg sulphides
JN12011	185	186.3	skarn	massive sulphides	dark grey	dark grey	fine	massive	py dominated fg massive sulphides, minor po with quartz in possible retrograde skarn interval
JN12011	186.3	188.3	skarn	quartz feldspar porphyry	tan	tan	medium	altered	tan coloured retrograde skarn at start of magnetite skarn below, no relic qtz eyes possible calc sltst protolith
JN12011	188.3	190.6	skarn	massive sulphides	brownish	purplish	fine	altered	magnetite skarn altered to clay leaving irregular patches of magnetite in a tan clay host; highly altered; grades into actinolite skarn; nearing bottom of large skarn
JN12011	190.6	193.8	skarn		green		medium	altered	green massive hard pyroxene skarn interval with very thin calcite fracture fills at various angles to core axis; 1-2cm wide sheeted qtz veins increase downhole; local hematite staining
JN12011	193.8	200.1	hornfels	sandstone	purplish	green purple	medium	veined	banded hornfels with intense silica flooding and sheeted veins (under UV, area contains W blebs in qtz stringers)
JN12011	200.1	202.7	sandstone	quartz pebble conglomerate	white	white	medium	altered	white intensely silicified interval of (possible qtz pebble conglomerate as local larger qtz grains observed or) qtz rich sandstone; interval cut by cm sized qtz stringers with po, py, cpy, W and bismuthinite
JN12011	202.7	209.8	siltstone		green purple			banded	banded green and purple hornfels (??calcareous) siltstone at upper contact with large intrusive stock below; patchy moderate to intense silcification; interval cut by numberous <1m qtz stringers (with bismuthinite, py, cpy, W and po) and thin calcite wisps at various angles to core axis
JN12011	209.8	211	granodiorite		salt and pepper		medium	equigranular	equigranular biotite rich granodiorite dyke cut by qtz stringers/sheeted veins with 0.5cm alteration envelope of bleaching/sericite and local epidote
JN12011	211	226.5	siltstone	sandstone	green purple	green	fine	interbedded	interbedded siltstone and qtz sandstone with selective moderate to intense silicification; unit is hornfeled and strongly veined by sheeted qtz veins generally less than 1cm wide with bismuthinite/moly/py and lesser cpy; large granodiorite stock downhole of here
JN12011	226.5	300	granodiorite		salt and pepper		medium	equigranular	equigranular biotite rich granodiorite stock cut by sheeted qtz stringers with bismuthinite/mo/py/cpy/sphalerite and scheelite [ ] in stringer and as blebs in stock as well; qtz stringers commonly have 1cm wide bleached alteration envelopes of sericite/chlorite and lesser biotite giving interval a banded appearance

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12011	300	301	vein		white		fine	veined	sheeted qtz vein interval with large white quartz veins up to 60cm wide with granodiotite sections <10 within vein; vein is mineralized with py and specs of bismuthinite near granodiorite sections of vein
JN12011	301	363.7	granodiorite		salt and pepper		medium	equigranular	E.O.H 363.7m; equigranular biotite ric granodiorite stock cut by sheeted qtz stringers with bismuthinite/py/mo/and lesser po blebs plus scheelite concentrated on vein selvages to end of hole; density of qtz veins deminishes downhole
JN12012	0	6.2	overburden						20cm of miscellaneous rubble recoved but not sampled
JN12012	6.2	17.9	skarn		dark	green	fine	massive	dark green massive pyroxene rich skarn with local very thin wisps of white calcite veining and 1cm wide hematite alteration envelopes; local red garnet growth overprinted by chlorite stringers gives brecciated look
JN12012	17.9	18.4	fault	skarn	orangish	tan	fine	fractured	clay rich faulted chlorite rich skarned interval; core is highly broken and sheared with dusty coatings on fractures that may represent very fine grained py (?+ other sx)
JN12012	18.4	42.6	skarn		dark	green	fine	massive	dark green massive interval of pyroxene crystalline skarn that is cut by thin wisps of 1mm calcite veinlets with assoc dark green chlorite selvages and common 1cm wide hematite alteration envelopes; rare but still sheeted qtz veins <1/m with bismuthinite
JN12012	42.6	43.8	granodiorite	skarn	white	green	medium	altered	clay altered qtz rich granodiorite with minor retrograde altered skarn unit at upper contact; interval crumbly and difficult to determine protolith as pervasively altered
JN12012	43.8	45	lost						LOST 1.2m in clay rich fault zone where skarn/granodiorite dyke contact is and associated retrograde carbonate/clay tan coloured alteration occurs
JN12012	45	45.7	skarn		buff	green	fine	retrograde	distinct buff/palest green very fine grained super soft (after scratching reacts to HCl) ?retrograde skarned interval; cut by thin deformed chlorite (and hematite alteration envelopes) stringers
JN12012	45.7	48.8	skarn	granodiorite	green	salt and pepper	medium	mottled	dark green dominantly pyroxene skarn with 40% partially dissolved granodiorite (qtz/feldspar/biotite) patches (reactive hanging wall to the intrusive unit below)
JN12012	48.8	49	lost						LOST 1.2m
JN12012	49	54.9	granodiorite	skarn	white	greenish	medium	altered	white kaolinite altered intrusive unit with local larger grey qtz eyes (euhedral up to 5mm); very clay rich with clay after feldspars; grey very fine grained sx?? In crude bands locally; 20% greenish retrograde skarn d clay altered cal SLT?
JN12012	54.9	55.9	skarn		buff	tan	fine	retrograde	tan/buff coloured very soft ankeritic alteration interval that is typical near the massive magnetic skarns in other holes; alteration front that overprints the px skarn and comes up along structures
JN12012	55.9	56.7	skarn	massive sulphides	dark	grey	fine	massive	massive magnetite skarn interval cut by network of buff coloured ankeritic stringers and patches (magnetite appears to being overprinted by ankeritic alteration); qtz stringers and lesser calcite cut interval
JN12012	56.7	58	skarn		tan	buff	fine	retrograde	tan/buff coloured soft ankeritic altered skarn interval without significant remnant magnetite; interval is also very clay rich and porous
JN12012	58	58.6	skarn	massive sulphides	dark	grey	fine	massive	massive magnetite skarn interval cut by network of buff coloured ankeritic stringers and patches (magnetite appears to be being overprinted by ankerititc alteration
JN12012	58.6	59.8	skarn		buff	tan	fine	retrograde	tan/buff coloured soft ankeritic altered skarn interval without significant remnant magnetite; interval is also very clay rich and porous
JN12012	59.8	70	skarn		dark	green	fine	massive	massive crystalline dark green skarn interval cut by wisps of white calcite and associated hematite alteration envelopes (hematite concentration increases downhole; abundant chlorite coating fractures; less than 1/m sheeted qtz stringer with bismuthinite throughout interval
JN12012	70	71.2	lost						LOST 1.2m clay rich fault zone with small section of sx rich intrusive rubble recovered after LOST interval

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12012	71.2	71.5	granodiorite	skarn	dark	grey	medium	intrusive	ground rubble core of dark grey sulphide rich silicified small intrusive dyke interval along the LOST and clay rich zone; fine grained pyrite is semimassive in granodiorite fragments
JN12012	71.5	72.1	skarn		tan	buff	fine	retrograde	tan/buff coloured clay rich retrograde skarn altered pyroxene skarn…alteration front is non planar with green px skarn downhole
JN12012	72.1	78.3	skarn		dark	green	medium	massive	dark green massive SKARN; interval displays a weak internal fabric and overprinted by very thin wisps of white calcite and hematite alteration envelopes; UV suggests scheelite in skarn
JN12012	78.3	78.7	skarn		tan	green	medium	altered	clay altered upper contact of mineralized veined retrograde skarn interval below; non sharp contact with 40% green skarn as above
JN12012	78.7	79.9	lost						LOST 1.2m
JN12012	79.9	80.6	skarn		dark	green	medium	massive	dark green massive SKARN interval at upper contact to tan coloured retrograde skarn below; interval cut by thin concentrated subparallel quartz stringers 55 degrees to core axis
JN12012	80.6	83.3	skarn		tan	grey	fine	veined	striped tan clay rich tan coloured retrograde skarn interval cut by sheeted clear and grey quartz (plus sulphides) veins as well as veins at various angles to core axis producing a stockwork texture; core ground and broken throughout
JN12012	83.3	83.8	skarn		dark	green	medium	massive	dark green massive SKARN; interval displays a weak internal fabric and overprinted by very thin wisps of white calcite and hematite alteration envelopes; UV suggests scheelite in skarn
JN12012	83.8	91.1	skarn		tan	grey	fine	veined	stripped tan clay rich tan coloured retrograde skarn interval cut by sheeed clear and grey quartz (plus sulphides) veins as well as qtz veins at various angles producing a stockwork texture; local high concentrations of quartz veins
JN12012	91.1	94.9	lost						LOST 3.8m; core double ground and washed away!
JN12012	94.9	102.1	skarn		tan	grey	fine	veined	striped tan clay altered tan coloured carbonate/clay rich retrograde skarn interval with increased concentration of grey quartz veining and stockwork veins are locally display brittle offsets
JN12012	102.1	107.4	quartz feldspar porphyry		white	grey	medium	porphyritic	zone of intense clay after feldspar in qtz feldspar porphyry with qtz stockwork veining and blebs of bismuthinite; clay shattered ??fault zone between 102.9-105m
JN12012	107.4	108.2	fault	quartz feldspar porphyry	grey	yellowish	medium	fractured	shattered faulted zone of silica flooded ?intrusive with very fine grained sx then 107.9-108m is clay gouge+?QFP rock chips = major core loss here
JN12012	108.2	109.6	siltstone	hornfels	greenish	maroon	fine	fractured	hornfels of brittle deformed siltstone that exibits maroon/green bands crosscut by a plethora of 2-5mm discontinuous qtz stringers locally offset by tan carbonate fracture fills
JN12012	109.6	110	granodiorite		salt and pepper	greenish	medium	altered	sericite altered silicified small granodiorite dike crosscut by 2 qtz veins with sharp contacts
JN12012	110	112.9	siltstone	hornfels	greenish	maroon	fine	fracture	hornfels of brittle deformed siltstone that exibits maroon/green bands crosscut by a plethora of 2-5mm discontinuous qtz stringers locally offset by tan carbonate fracture fills; lower contact clay rich and broken
JN12012	112.9	120.5	siltstone		light	green	fine	bedded	light green very finely laminated siltstone with brittle offset discontinuous veins and clay rich zones especially at lower contact of unit
JN12012	120.5	124.7	sandstone	siltstone	grey	green	fine	sucrosic	coarser qtz sandstone bed that contains significant more brittle fractures and very fine grained dustings and patches of py dominant sulphides
JN12012	124.7	127.9	limestone	siltstone	black	grey	fine	interbedded	black limestone with thin interbeds of green siltstone to 126m; upper contact has clay gouge up to 30% to 125m; bedding 10-20 degrees to core axis
JN12012	127.9	128.3	fault	limestone	dark	grey	fine	sheared	sheared gouge rich fault zone in limestone/calcareous siltstone interval
JN12012	128.3	145.8	limestone	calcareous siltstone	green	black	fine	interbedded	highly folded and deformed interbedded black limestone and green calcareous siltstone; interval is veined/boudinaged which display brittle offsets and truncation of veins/beds

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12012	145.8	147	fault	calcareous siltstone	green	grey	fine	fractured	very clay rich crumbly faulted interval of light green grey coloured calcareous siltstone with 0.8m lost core; chips less than 0.5cm2
JN12012	147	148	siltstone		light	green	fine	foliated	thinly bedded siltstone with abundant clay along foliation; interval displays brittle offsets and folding; broken lower contact
JN12012	148	156.3	sandstone		greer	grey	medium	equigranular	light grey green gritty qtz sandstone with finer grained intervals; unit contains fg py patches and stringers and has local open space as 1mm pits; local qtz veining
JN12012	156.3	156.7	siltstone		black	green	fine-medium	laminated	black and green non graphitic small shear zone with a 3cm white qtz vein, possible fault bringing carbonaceous layer against more massive qtz sandstone
JN12012	156.7	157.5	sandstone		light	grey	fine-medium	equigranular	EOH @ 157.5m; equigranular grey qtz sandstone
JN12013	0	4.1	overburden						overburden; 3m casing
JN12013	4.1	12.1	skarn		green		medium	crystalline	dark green medium grained pyroxene skarn interval; massive; cut by thin calcite stringers and local white & clear qtz stringers
JN12013	12.1	14.2	lost						LOST 2.1m
JN12013	14.2	17.1	skarn		tan	buff	fine	retrograde	tan/buff coloured very soft retrograde altered skarn interval (correlates with zones in JN12011 & JN12012); interval intensely veined by grey and white sheeted qtz veins and patches of fine grained pyrite
JN12013	17.1	17.3	vein		glassy	white	very fine	aphanitic	light grey to white quartz vein in retrograde altered skarn interval; vein has 3% very fine grained sulphides and discontinuous wisps of bismuthinite in crude stringers throughout vein parallel vein selvages giving vein a ribboned texture
JN12013	17.3	18.2	skarn		tan	buff	fine	retrograde	tan/buff coloured very soft retrograde altered skarn interval (correlates with zones in JN12011 & JN12012); interval is intensely veined by grey and white sheeted qtz veins and patches of fine grained pyrite
JN12013	18.2	21	lost						LOST 2.8m
JN12013	21	21.3	fault	skarn	grey	buff	fine	retrograde	fault zone of rubble fragments of retrograde altered skarn with semimassive pyrite concentrations and clay shot throughout interval (local fragments have a clay after feldspar ??granitic texture)
JN12013	21.3	23.8	lost						LOST 2.5m
JN12013	23.8	26.2	skarn		green	olive	fine	crystalline	green prograde pyroxene skarn with epidote alteration from 23.8 - 24.5m and intense chlorite veining and coating of fractures; white talc along slickensided fractures; interval is sheared
JN12013	26.2	26.6	skarn		tan	greenish	fine	retrograde	tan/light green altered retrograde skarn interval - very soft and clay rich …. Core becomes crumbly and goes into a fault zone downhole
JN12013	26.6	27	fault	skarn	light	tan	fine	retrograde	light grey/tan coloured chips of clay altered retrograde skarn fault zone with 50% clay; local 0.5cm2 fragments of white qtz vein material
JN12013	27	27.8	skarn		olive	green	fine	retrograde	olive green epidote/chlorite flooded tan retrograde skarn interval with very irregular alteration front lower contact to pyroxene skarn unit downhole; epidote occurs in crude stringers with clay and coats fractures
JN12013	27.8	33	skarn		green	white	medium	veined	veined altered dark green chlorite after pyroxene with common qtz flooding and blurred qtz veins; pyrrhotite and pyrite as irregular masses and crude stringers throughout interval
JN12013	33	60.1	skarn		green	brownish		massive	green pyroxene skarn with local concentrations of light brown garnet development in crude bands (?relict bedding); very thin calcite fracture fill with associated hematite alteration envelopes; 45.8-49.6m is speckled massive px skarn with ragged 1-5mm blebs-UV lamp indicates scheelite; 59.4-60.1m has high concentration of light brown garnet development

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12013	60.1	60.6	skarn		green	pinkish	medium	mottled	green massive pryroxene skarn interval with lack of brown garnets and speckled with pinkish white 2-5mm ragged crystals - UV indicates possible magnesium rich tungstate mineral?? Not seen elsewhere in POW zone core….
JN12013	60.6	60.9	skarn	semimassive sulphide	greenish	grey	medium	intrusive	zone of semimassive pyrite and qtz in an intrusive textured unit (with clay after feldspars); sharp intrusive like contacts and pyrite stringers sub parallel the HW/FW contacts
JN12013	60.9	61.5	skarn						green pyroxene rich skarn with abundant light brown garnet; silicified and contains blebs and clots of fine grained pyrite throughout interval
JN12013	61.5	61.9	vein	skarn	white	green	fine	veined	sheared zone of dominantly milky white calcite vein fragments with clay and sericite alteration in a pyroxene/garnet skarn host; interval is broken
JN12013	61.9	65.7	skarn		green		medium	massive	massive green pyroxene skarn with local bands of brown garnets and patches of white qtz/calcite giving core a speckled igneous texture locally - appears like partially skarnified intrusive in places
JN12013	65.7	70.9	skarn	quartz feldspar porphyry	green	white	medium	porphyritic	mixed zone of px skarn with 20-30cm irregular shaped patches of partially absorbed and melted QFP dyke below; intense silicification with clay altered feldspars and non sharp intrusive contacts
JN12013	70.9	79.9	quartz feldspar porphyry		light	white	medium	porphyritic	fresh looking white QFP with euhedral qtz phenocrysts up to 4mm wide in an aphanitic groundmass; minor biotite at upper contact of QFP to ~174.5m; local clay altered feldspar observed; upper contact is non planar with partial reabsorption of QFP during emplacement (endo skarning and mixing)
JN12013	79.9	81	lost						LOST 1.1m
JN12013	81	88.7	quartz feldspar porphyry		light	white	medium	porphyritic	fresh looking QFP with local disseminated bismuthinite and clay along selective fractures; feldspars altered to white mica or clay; interval very mafic poor
JN12013	88.7	90.8	skarn	quartz feldspar porphyry	dark green	brownish	medium	sheared	zenolith of pyroxene and garnet prograde skarn with intense chlorite alteration; sericite along zenolith/dyke contacts and coating fractures; qtz veining increases downhole
JN12013	90.8	106.6	quartz feldspar porphyry		light	white	medium	porphyritic	white porphyritic QFP with local clay on fractures and cut by qtz stringers with moly, bismuthinite and native bismuth at 100.1m; high grade bismuthinite and clay on fracture surface at 98.6m; ?zenolith of granodiorite or magmatic segregation between 102-102.6m
JN12013	106.6	115.9	granodiorite		salt and pepper	grey	medium	intrusive	biotite rich granodiorite with common clots of biotite up to 3mm across in a white qtz/feldspar matrix; contract with QFP is irregular (cuts along the core axis from 105.4-106.6m) and bismuthinite/qtz sheeted veins crosscut both granodiorite and QFP without interuption therefore post dates both intrusives ex: 106.4m
JN12013	115.9	116	quartz syenite		brownish	grey	fine	intrusive breccia	dirty brown/grey coloured sheared ??more mafic type of intrusive dyke with well rounded qtz grains dirty fine grained matrix; interval has sharp (yet deformed) contacts with granodiorite host - doesn't look like a melted sediment zenolith - some sort of more mafic ???early dyke with py along alteration envelopes; matrix is clay altered and reacts slowly to HCl
JN12013	116	117	granodiorite		salt and pepper	greenish	medium	intrusive	sheared granodiorite interval between two small sections of ??mafic dykes; interval is sericite altered giving greenish tint to granodiorite
JN12013	117	117.2	quartz syenite		brownish	grey green	fine	porphyritic	dirty brown/grey/greenish sheared mafic dyke; possible lamprophyer??; matrix is gritty with rounded qtz grains up to 6mm wide (pheno make up <15% of small dykes)
JN12013	117.2	162	granodiorite		salt and pepper	grey	medium	intrusive	EOH 162m; biotite rich granodiorite to end of hole with clay altered broken zones between 133.9-134.8m ??fault and 149.6-150m; local concentrations of sheeted qtz veins with moly, rare bismuthinite and trace chalcopyrite; NOTE: MDRU Craig Hart geochron sample taken between 159.7-160.1m
JN12014	0	4.6	overburden						overburden to 4.6m;3m casing; casing left in hole; no core recovered

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12014	4.6	17.4	skarn		medium	green	fine	massive	medium to dark green massive pyroxene skarn with rare light brown garnet bands ?defining relict bedding planes; interval cut by calcite coated fracture planes sub// to core axis (calcite up to 3mm wide)
JN12014	17.4	22.5	skarn		dark	green	fine	banded	dark green silicified pyroxene skarn with common bands of garnet that is extensively veined by chlorite and calcite giving crackle breccia texture locally; discontinuous qtz vein fragments as well through out interval
JN12014	22.5	26.1	skarn		medium	green	fine	massive	massive pyroxene skarn interval with 26 sheeted white qtz veins cutting at 55 degrees to core axis with common black chlorite selvages and chlorite filled fractures at 55 degrees as well
JN12014	26.1	27	skarn		medium	green	fine	banded	garnet rich pyroxene skarn interval with common thin to 1.5cm wide crisscrossing sets of chlorite veins locally giving core a crackle breccia texture
JN12014	27	28.5	skarn		medium	green	fine	massive	massive interval of pyroxene skarn with white calcite wisps/hair width microveinlets
JN12014	28.5	30.4	skarn		medium	green	fine	veined	pyrrhotite rich pyroxene skarn interval with network textured calcite/pyrrhotite between 28.5-28.8m
JN12014	30.4	31.5	skarn		medium	green	medium	spotted	speckled green crystalline pyroxene skarn with 1-3mm ragged white specs of calcite and possibly ??scheelite
JN12014	31.5	41.5	skarn		medium	green	fine	massive	massive pyroxene rich skarn interval with local bands of light brown garnet; increased calcite near lower contact
JN12014	41.5	42.9	skarn		tan	buff	fine	retrograde	tan/buff coloured retrograde carbonated/clay alteration around a semimassive zone of arsenopyrite; 880Sb antimony (XRF) and pyrite frothy porous qtz core between 42.9-43.3m; interval has local euhedral pyrite coating fracture surfaces
JN12014	42.9	43.3	semimassive sulphide	skarn	light	grey	fine	vuggy	sulphide rich frothy interval with bands of pyrite and arsenopyrite and XRF gives 880 Sb for antimony; 10% open space
JN12014	43.3	44.4	skarn		tan	buff	fine	retrograde	tan/buf coloured retrograde carbonate/clay F/W alteration envelope to sulphide rich zone…grades into olive green coloured clay rich retrograde skarn interval to 45m where it returns to pyroxene skarn
JN12014	44.4	45	skarn		olive	green	fine	retrograde	olive green coloured (epidote rich) very clay rich retrograde skarn with very non-planar alteration front/lower contact at 45m
JN12014	45	48.5	skarn		medium	green	fine	massive	relatively less altered massive interval of pyroxene skarn between two zones of epidote/carbonate/clay altered units with sulphides
JN12014	48.5	49.3	skarn		tan	green	fine	retrograde	mottled mixed zone of dominantly tan carbonate altered pyroxene skarn with common calcite and hematite staining…grades into crumbly olive green epidote rich ome with local f.g. sx and qtz fragments
JN12014	49.3	52.9	skarn	semimassive sulphides	dark	grey green	fine	altered	silicified mixed zone of pyroxene skarn with rubble of semimassive pyrite/pyrrhotite and qtz; drillers had a bit change at 51m and 0.8m core loss near 51.8m and ??possible caved material 0recovered here as well?? Interval was sampled
JN12014	52.9	60	skarn		medium	green	fine	massive	massive green pyroxene rich skarn with common dry of thin calcite filled fractures with hematite alteration envelopes; abundant dark green chlorite; sheeted qtz veins increase downhole
JN12014	60	63	skarn		light	green	fine	veined	lighter green pyroxene skarn interval cut by myriad of <1cm wide white quartz veins; interval becomes silicified downhole towards mineralized zone below
JN12014	63	63.5	skarn		dark	green	fine	veined	intensely silicified and veined dark green pyroxene skarn hanging wall to retrograde buff coloured carbonate/clay qtz stockwork zone below
JN12014	63.5	67.3	skarn		tan	white	fine	retrograde	buff coloured carbonate retrograde skarn interval with qtz stockwork (up to 40% qtz veining at various angles to core axis throughout carbonate/clay altered unit)

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12014	67.3	68.8	hornfels	skarn	dark	green purple	fine	banded	banded intensely qtz stockworked intensely silicified hornfels to intrusive interval below; chlorite altered ?pyroxene rich protolith
JN12014	68.8	117.3	granodiorite		salt and pepper		medium	equigranular	variably clay altered biotite granodiorite with large intervals of intense clay alteration which emphasizes large euhedral qtz eyes in a clay after feldspar, biotite to white mica matrix; both clay altered and "fresher" looking granodiorite cut by numerous qtz stringers at various angles to core axis as well as sheeted vein sets; difficult to tell if some QFP exisits however matrix remains coarse grained and "contacts" of clay altered zones are somewhat gradational therefore consensus is all granodiorite
JN12014	117.3	117.6	vein	granodiorite	white	salt and pepper	fine	veined	white ribboned qtz vein with thin sub// fractures within vein with bismuthinite (and lesser moly and flattened pyrite) along the fractures within the qtz vein; upper and lower contact is sharp 40 degrees to core axis
JN12014	117.6	125.5	granodiorite		salt and pepper		medium	equigranular	biotite granodiorite with local alteration envelopes of and clay after feldspar and sericite - envelopes are generally 1cm wide
JN12014	125.5	131.9	granodiorite		salt and pepper	white	medium	hypidiomorphic	clay and sericite altered qtz eye phyric medium grained granodiorite with common light grey to clear deformed qtz veining at low angle to core axis; fine grained sulphides on clay fracture with qtz vein at 129m
JN12014	131.9	171.6	granodiorite		salt and pepper	grey	medium	equigranular	dark grey coloured biotite rich granodiorite with thin bleached fractures and <4cm wide zones of sericite alteration along clay fractures - with common orientations to core axis
JN12014	171.6	176	fault	granodiorite	white	salt and pepper	coarse	altered	fault zone consisting of intense clay after feldspars (biotite to white mica) and clay gouge between 174.6-175m
JN12014	176	184.4	granodiorite		salt and pepper	grey	medium	equigranular	patchy clay altered biotite granodiorite with local sheeted qtz veins; pyrite observed at vein margins
JN12014	184.4	185	granodiorite		green	grey	medium	altered	silicified granodiorite with network of very finely disseminated py and grey very fine sulphides as breccia cement to 2cm brecciated qtz vein with py and arsenopyrite at 184.7m
JN12014	185	188.9	granodiorite		grey	green	medium	altered	variably altered biotie granodiorite with visible gold blebs in 4cm wide qtz vein at 187.3m; interval is intensely silicified and patches of local bleaching (clay after feldspars/biotite gone to white mica); interval cut by numerous sheeted thin qtz veins and dry fractures above shear zone
JN12014	188.9	189.1	granodiorite		grey	salt and pepper	medium	sheared	sheared granodiorite interval with abundant biotite rich deformed braided "veins/shears" with local milled rounded qtz grains; interval completely rehealed and locally silicified; fine grained pyrite blebs along biotite seams
JN12014	189.1	194.6	granodiorite		salt and pepper	grey	medium	altered	high concentration of sheeted qtz veins (loaded with bismuthinite between 190.2-190.5m) and bleached fractures through biotite granodiorite and bleached clay after feldspars/sericite after biotite altered granodiorite; moderately broken core with clay coated fracture running down length of core between 193.7-194.3m;
JN12014	194.6	194.9	vein		grey	white	fine	fractured	dark grey white qtz vein interval with abundant very fine sulphide filled cracks and 1cm wide breccia zone at lower contact of vein - XRF gives 1088 Bismuth, 638 moly and 726 tungsten at lower contact and >400 bismuth and >400 W within vein itself; good oriented sharp contacts: alpha 55/beta 315 for both the HW and FW of vein
JN12014	194.9	196.6	granodiorite		grey	green	medium	altered	light green grey altered granodiorite interval between two mineralized qtz veins; granodiorite is intensely altered with all feldspars gone to clay and sericite blebs (biotite altered to white mica); common discontinuous 1.5cm qtz stringers and thin 0.1cm pyrite rich fractures that offset the qtz stringers
JN12014	196.6	196.9	vein		white	grey	fine	mottled	white quartz vein with blebs and thin fractures full of bismuthinite (sexy vein!); bismuthinite and scheelite within microfractures; (a sharply defined fracture full of bismutinite within the vein is oriented at alpha 60/beta 40)

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12014	196.9	206.3	granodiorite		salt and pepper	greenish	medium	altered	dominantly clay altered granodiorite with rare black biotite (most altered to white mica) grading into a sheared section of very clay altered granodiorite; section is cut by local 1-3cm zones of pyrite and arsenopyrite stringers 40-60 degrees to core axis
JN12014	206.3	217	granodiorite		grey	greenish	medium	sheared	sheared interval of granodiorite (approaching contact with retrograde altered py skarn below); all feldspars altered to clay and biotite is altered to white mica with local patches of epidote as well as sericite; clay coats fractures especially at bottom of interval
JN12014	217	217.4	fault	vein	dark	grey	fine-medium	gouge	upper fault contact of retrograde skarn interval and sheared granodiorite above; clay gouge rich with angular qtz fragments in a py/f.g. sx rich matrix; sharp lower contact 58 degrees to core axis
JN12014	217.4	222.6	skarn		tan	grey	fine	retrograde	tan coloured carbonate/clay retrograde skarn (as observed in holes 11-16) interval that is brecciated at start & end of interval; 30-40cm zones of up to 20% fine grained pyrite (bismuthinite at top of interval and possible moly near lower contact...XRF notes high bismuth/aresnic/zinc at 217.5m)
JN12014	222.6	223.9	lost						LOST 1.3m
JN12014	223.9	224.2	skarn		tan	grey	fine	retrograde	tan coloured carbonate/clay retrograde skarn with patches of fine grained pyrite and broken discontinuous qtz vein fragments
JN12014	224.2	224.5	fault	skarn	dark	grey	fine	gouge	dark grey clay rich fault zone that is crumbly and contains abundant fine grained pyrite and possibly other sulphides; major contact here from skarn to unaltered siltstones/limestones
JN12014	224.5	229.1	siltstone		greenish	grey	fine	laminated	greenish grey coloured thinly laminated non calcareous siltstone interval with local discontinuous calcite wisps but generally very homogenous to end of interval
JN12014	229.1	231	siltstone	limestone	grey	black	fine-medium	interbedded	interbedded siltstone and limestone with lesser more gritty intervals; interval is somewhat brittle fractured as well as small scale folding and faulting along fold axis
JN12014	231	231.3	sandstone		light	grey	medium	equigranular	light grey brownish coloured equigranular massive quartz sandstone
JN12014	231.3	231.8	fault	sandstone	grey	brownish	medium	sheared	mixed rubble of sandstone and lesser black limestone in clay coated rubble chips of core
JN12014	231.8	234	lost						LOST 2.2m
JN12014	234	238.7	limestone		black	grey	fine	bedded	black limestone interval that is well bedded and local brittle fractured; minor white calcite veinlets cut core at various angles to the core axis
JN12014	238.7	248.5	siltstone		greenish	grey	fine	bedded	greenish grey banded to thinly laminated (?bedded) siltstone interval that becomes weakly hornfels downhole; very small scale gentle warping of beds and mm scale brittle fracturing; trace pyrite blebs and thin stringers along foliation/bedding planes
JN12014	248.5	259	calcareous siltstone	hornfels	greenish	green purple	fine	banded	siltstone interval that has 3cm wide purple hornfels bands and minor development of calc-silicate minerals; interval has common pyrrhotite blebs and thin stringers and is silicified
JN12014	259	259.7	calcareous siltstone		light grey	beige	fine	laminated	light tan/beige greenish coloured thinly laminated calcite rich calcareous siltstone interval with foliform calcite/qtz vein ?going towards marble?
JN12014	259.7	270.8	siltstone		greenish	grey	fine	mottled	less calcareous siltstone unit than above with discontinuous highly deformed lenses of dark green chlorite (gives core a swirly/mottled texture; local irregular blebs of py>aspy>cpy - like Kangas zone alteration MM says
JN12014	270.8	271.8	fault	siltstone	dark grey	greenish	fine	interbedded	dark grey and greenish grey fault zone of siltstone with introduction of 40% non calcareous (carbonaceous) layers giving core a banded look; interval is highly broken with small sections of clay gouge
JN12014	271.8	274.5	lost						LOST 2.7m
JN12014	274.5	276.1	fault	siltstone	dark grey	greenish	fine	fractured	fault zone of fragments of dark grey siltston in gouge/clay; interval extemely broken and locally crumbly

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12014	276.1	277.1	lost						LOST 1.0m
JN12014	277.1	278.1	siltstone		greenish	dark grey	fine	fractured	highly sheared by more grainy than siltstone above with 10% open space as fine pits and calcite filled cavities; common discontinous and highly deformed calcite veins throughout interval
JN12014	278.1	278.4	vein	siltstone	white	greenish	fine	fractured	white qtz vein ?foliform - highly deformed with stylolitic thin pyrite and associated arsenopyrite stringers within qtz vein; 3-5cm of clay gouge and sheared siltstone at contacts
JN12014	278.4	279.8	siltstone		greenish	grey	fine	sheared	greenish grey very fine siltstone with 20cm of f.g. pyrite along upper portion of interval (FW to qtz vein above) then discontinous pyrite veinlets - highly deformed; unit is laminated by highly deformed
JN12014	279.8	285.2	siltstone		grey green	white	fine	sheared	highly contorted greenish siltstone interval with common white very thin laminations all sheared and locally displaying small scale brittle offsets on the mm scale; 181.6m is 4cm zone of f.g py stringers with lesser arsenopyrite
JN12014	285.2	291	siltstone	sandstone	green	grey	fine-medium	sheared	mixed interval of green siltstone with 40% carbonaceous dark grey interbeds and10-20cm wide qtz sandstone gritty layers; interval is highly sheared with common 1-30mm scale brittle offsets (often step faulting, open space and infill by white clay); 289.7-290.3m has several porous highly deformed qtz vein sections with associated open space and f.g. py ??foliform vein?
JN12014	291	297	sandstone	siltstone	light grey	greenish	fine-medium	fractured	EOH 297m; dominantly massive gritty qtz sandstone intervals with 30% greenish finely laminated yet brittle fractured siltstone intervals; minor cross cutting fractures filled with fine grained pyrite
JN12015	0	3.3	casing						
JN12015	3.3	21	quartz pebble conglomerate	sandstone	grey	rusty	medium-coarse	altered	EOH 21.0m.pervasive silicification of quartz feldspar pebble conglomerate, quartz grit, and sandstone. Matrix is weakly to moderately oxidized. Epidote and fine disseminated py within matrix.
JN12016	0	7.1	overburden						0-7.1m overburden; no core recovered
JN12016	7.1	12.8	hornfels	quartz pebble conglomerate	light	grey green	fine-medium	graded	intensely silicified graded qtz pebble conglomerate that is so altered it is difficult to tell protolith; minor garnet bands between 7.5-8m and common euhedral pyrite on fractures; nice wollastonite fibrous masses coat fractures at 9.2m
JN12016	12.8	26.2	hornfels	calcareous siltstone	green purple	brownish	fine	banded	banded hornfels of calcareous siltstone protolith with 2.5cm bismuthinite qtz vein at 13.8m; broken sheared section between 15-17.7m; light brown garnet bands between 17-17.7 and 19.6-20m
JN12016	26.2	50.6	skarn		green	brown	fine	banded	dominantly massive pyroxene skarn with bands of light brown garnet and areas of chlorite (and pyrite development at the start of the interval); 48.3 to end of interval has common calcite veinlets with 1cm tan coloured retrograde skarn alteration envelopes
JN12016	50.6	53.8	skarn		tan	greenish	fine	retrograde	tan coloured retrograde skarn (correlates with every other 2012 Pow zone drill hole) of carbonate/clay alteration of prograde pyroxene rich skarn
JN12016	53.8	54.6	skarn		green		fine	massive	more massive interval of pyroxene skarn with discontinuous bands of garnets; thin low angle calcite veinlets with tan alteration envelopes near 54m
JN12016	54.6	54.9	skarn		tan		fine	retrograde	small section of qtz veining and associated tan carbonate/clay retrograde alteration envelopes
JN12016	54.9	56	skarn		brownish	green	fine	retrograde	very garnet rich interval with some remnant patches of green pyroxene which has not been carbonate altered; interval has local euhedral qtz ??grains/??phenocrysts near 55.2m
JN12016	56	59.8	lost						LOST 3.8m
JN12016	59.8	60	skarn		brownish	tan	fine	retrograde	ground rubble of mostly garnet 2cm3 rounded fragments with dark green chlorite fracture coatings; between two LOST core intervals
JN12016	60	61.4	lost						LOST 1.4m

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12016	61.4	62.6	skarn		tan		fine	retrograde	veined interval of tan coloured speckled carbonate retrograde altered skarn with low angle to core axis braided sx rich fractures with open space and numerous sheeted qtz/calcite veinlets and pyrrhotite blebs at end of interval
JN12016	62.6	67.8	skarn		green	white	fine	veined	veined interval of green pyroxene skarn with 30% patches of lighter green chlorite; 30cm of CAVEd material (not sampled) at 60m; abundant ragged and braided qtz and calcite stringers throughout interval
JN12016	67.8	68	granodiorite	igneous rock	salt and pepper		medium	equigranular	small dyke of biotite rich granodiorite with very non sharp contacts (looks deformed after emplacement; 0.5mm sized disseminations of moly at lower contact
JN12016	68	69.2	skarn		green		fine	mottled	patchy silicified mottled pyroxene skarn between two interval of granodiorite; massive except or thin white specs of qtz growth due to proximity to granodiorite?
JN12016	69.2	70.1	skarn	granodiorite	green	salt and pepper	medium	banded	mixed interval of silicified pyroxene skarn with 2cm wide repeated bands of biotite granodiorite; pyroxene skarn is bleached and silicified between intrusive intervals
JN12016	70.1	76.2	skarn		green		fine	massive	green pyroxene skarn with common chlorite patches and coating fractures; thin calcite wisps and stringers with associated hematite as alteration envelopes
JN12016	76.2	76.5	skarn		tan	green	fine	retrograde	start of target suphide rich retrograde skarn intersection; chlorite green soft interval grades into tan clay rich retrograde skarn interval that correlates with othe Pow zone intersections
JN12016	76.5	77.8	lost						LOST 1.3m
JN12016	77.8	79.5	skarn		tan		fine	retrograde	clay rich tan carbonate altered retrograde skarn interval with abundant white clay; interval is crumbly and fragile yet cut by local clear thin sheeted qtz veins
JN12016	79.5	80.7	lost						LOST 1.2m
JN12016	80.7	82	skarn		tan		fine	retrograde	tan retrograde carbonate and clay rich skarn interval with common thin clear qtz sheeted veins and common open space pits
JN12016	82	82.3	fault	skarn	white	tan	fine	fractured	faulted very clay rich interval of carbonate altered retrograde skarn; interval consists of generally less than 2cm3 rounded reground core with thin remnant qtz veining cutting fragments
JN12016	82.3	84	lost						LOST 1.7m
JN12016	84	85.5	fault	skarn	tan		fine	gouge	fault zone of gouge rich crumbs of tan retrograde skarn core fragments recovered; rare qtz fragments observed in dominantly clay gouge
JN12016	85.5	87.3	skarn		tan		fine	retrograde	tan clay and carbonate rich retrograde skarn interval with introduction of grey bands ?fine grained sulphides?
JN12016	87.3	89	lost						LOST 1.7m
JN12016	89	91.8	skarn	skarn	tan		fine	retrograde	tan clay and carbonate rich retrograde skarn interval with semimassive pyrite mineralization replacement,
JN12016	91.8	93	lost						
JN12016	93	94.5	skarn	skarn	greenish	tan	fine	retrograde	greenish-tan retrograde skarn, friable clay gouge through the interval.
JN12016	94.5	95.6	skarn	skarn	orange	brownish	fine	retrograde	reddish/orange/brown oxidized magnetite skarn. Limonite veinlets cross-cut the interval.
JN12016	95.6	103	skarn	skarn	tan	white	fine	retrograde	white/tan/brown retrograde skarn, weakly to strongly carbonaceous. Interval is moderately fractured sub-parallel TCA from 99.0 - 100.0 meters.
JN12016	103	104	lost						
JN12016	104	104.7	skarn	skarn	tan	white	fine	retrograde	tan/brown/white retrograde skarn.

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12016	104.7	107.3	vein	skarn	white	grey	fine	multistage	VG observed in two locations near 105m in quartz vein hosting sulphide mineralization and framework clasts of clay altered retrograde skarn.
JN12016	107.3	112.6	skarn	vein	tan	white	fine	retrograde	tan/beige carbonate clay retrograde skarn. Patches of semimassive pyrite replacement occur as envelopes associated with quartz stockwork veining, the sulphide patches have irregular boundaries ..
JN12016	112.6	118.4	hornfels	skarn	greenish	brownish	fine	banded	soapy green/brownish coloured banded interval of hornfels and minor retrograde carbonate/clay alteration of calcareous siltstone; at upper contact of variable clay altered biotite rich granodiorite; interval is cut by abundant milky white qtz and lesser calcite veins at various angles to core axis
JN12016	118.4	132	granodiorite		salt and pepper	white	medium	equigranular	variably clay altered granodiorite (locally sheared); cut by numberous moly rich qtz (and lesser calcite) veins decreasing in concentration down hole; 127.4-128.4m ?magmatic segragation with unusually high concentration of black biotite
JN12016	132	132.5	fault	granodiorite	white	salt and pepper	medium	equigranular	zone of intensely decomposed granodiorite; fault interval of 2-4mm2 chips which are pale green sericite altered
JN12016	132.5	145.5	granodiorite		salt and pepper	white	medium	equigranular	clay altered granodiorite with patchy silicification and common sericite blebs as well as biotites gone to white mica
JN12016	145.5	145.8	granodiorite	breccia	white	greenish-grey	fine	brecciated	sheared and brecciated granodiorite with subrounded white qtz clasts in a dirty fg matrix, with py around local breccia fragments
JN12016	145.8	169.8	granodiorite		white	salt and pepper	medium	altered	clay altered granodiorite with biotites altered to white mica; common sheared sections with thin fracture coatings of fine grained sulphides; interval cut by common white qtz veins ~1cm wide at low angles to core axis; 152.8-153.7m 6mm f.g. sx fracture fil 3 degrees to core axis
JN12016	169.8	170.1	fault	granodiorite	white	salt and pepper	medium	fractured	zone of intensely decomposed granodiorite into 1-3mm2 chips; rare qtz vein fragments observed; sharp lower contact at 48 degrees to core axis
JN12016	170.1	174.4	granodiorite		dark	grey	medium	altered	fresher looking biotite rich silicified granodiorite; interval is dark grey with thin tan clay coatings sub// fracture sets; qtz veins that cut this section have biotite cots within the qtz (this is not common in 2012 drilling of the Pow Zone)
JN12016	174.4	183.5	granodiorite	fault	white	salt and pepper	medium-coarse	sheared	sheared clay rich interval of white clay altered granodiorite with concentrated of pyrite (and lesser sphalerite (and rare bismuthinite and moly)) along sub// shear fractures and thin breccia zones where qtz fragments are floating in a dark grey sx +/- biotite matrix
JN12016	183.5	189.1	granodiorite		salt and pepper	grey	medium	veined	biotite rich granodiorite with common pyrrhotite and pyrite fracture fill and qtz veining selvages with associated bleached, sericite alteration envelopes…especially between 183.5-186 and 196.3-191.2m
JN12016	189.1	189.6	vein		white		fine		50cm wide massive qtz vein with 0.1% moly rods and discontinuous fracture fill, stylolitic; contacts are irregular ~20 degrees to core axis with hairline calcite fractures cut vein at 35 degrees to core axis
JN12016	189.6	197.6	granodiorite		salt and pepper		fine	equigranular	bioitite rich granodiorite with patchy clay after feldspars and associated biotites gone to white mica
JN12016	197.6	267.2	granodiorite		white	salt and pepper	medium-coarse	altered	extensive clay altered zone of white granodiorite with 90% of biotite gone to white mica; local clay along fractures and crumbly sections; local discrete zones of pyrite dominant shears at 200.1, 203.3-203.5, and 216.5m
JN12016	267.2	272.2	granodiorite		salt and pepper		medium	equigranular	biotite rich granodiorite interval with patchy clay altered feldspars
JN12016	272.2	272.3	vein		white	grey	fine-medium	fractured	white qtz vein with common fractures infilled with hairline calcite and ribbons of pyrite, arsenopyrite and bismuthinite; contacts are sharp and planar at 42 degrees to core axis with discrete sericite alteration envelope
JN12016	272.3	273.2	granodiorite		salt and pepper		medium	equigranular	silicified sericite altered granodiorite with biotite altered to white micas; interval is between two qtz veins

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12016	273.2	273.6	vein	granodiorite	white	grey	fine	brecciated	milky white qtz veins that is fractured and brecciated with fg biotite and grey blue silica veinlets infill fractures; sulphides (bismuthinite and pyrite and possibly jamsonite) as fractures and f.g. disseminations within the qtz
JN12016	273.6	291.9	granodiorite		white	grey	medium	equigranular	biotite rich granodiorite interval with patchy clay altered feldspars
JN12016	291.9	293.9	vein	granodiorite	white	salt and pepper	fine	fractured	white to semitranlucent grey qtz running down core axis with 1-30mm framework clasts of altered granodiorite crosscut by stylolitic ribbons of moly up to 15mm long; vein is crosscut but hairline calcite fractures; true width appears less than 10 cm
JN12016	293.9	300	granodiorite		salt and pepper		medium	veined	EOH 300m; biotite rich fresh looking granodiorite with 3/m qtz veining or fractures with bleached alteration envelopes; 1-2cm biotite rich magmatic segregations throughout interval (biotite up to 50%); common sub// 10/m calcite fracture fill
JN12017	0	17	overburden						0-17m overburden; 15m casing down hole
JN12017	17	26.9	calcareous siltstone	hornfels	purple	green	fine-medium	mottled	mottled purplish bedded qtz siltsone with minor coarser thin interbeds of coarser qtz rich sandstone; interval is weakly hornfeled and surface oxidation as limonite on fractures occurs to 23m
JN12017	26.9	29.5	calcareous siltstone	hornfels	greyish	green	fine	bedded	finely laminated finer grained siltstone than above interval (rare purple coarser bands); interval has coating of white talc/clay coated fractures and is broken and fractured preferentially (bedding core angles are consistent 30 to 35 degrees to core axis
JN12017	29.5	35.8	calcareous siltstone	hornfels	purple	green	fine-medium	mottled	mottled purplish bedded qtz siltsone; interval is weakly hornfeled and well bedded; alteration due to weak hornfels gives sediments a banded purple and green look however core is soft with abundant clay and chlorite and minor sericite; (speckled texture d
JN12017	35.8	36.8	sandstone	calcareous siltstone	greenish	grey	medium	fractured	greenish grey qtz veined interval of coarser qtz sandstone which has common thin qtz stringers and associated 2% pyrite as thin stringers and euhedral blebs coating fractures
JN12017	36.8	38.5	calcareous siltstone	hornfels	purple	green	fine-medium	mottled	mottled purplish bedded qtz siltsone; interval is weakly hornfeled and well bedded; alteration due to weak hornfels gives sediments a banded purple and green look however core is soft with abundant clay and chlorite and minor sericite; (speckled texture d
JN12017	38.5	39.3	sandstone	fault	white	greenish	medium	fractured	sheared and faulted white qtz sandstone interval with 5cm of grey/white clay gouge at 38.5m with 5.2m LOST core between 39 to 45m; ground fragments of sucrosic qtz sandstone with 4mm en echolon grey qtz tension gashes at 69.2m and local concentrations of
JN12017	39.3	42	lost						LOST 2.7m; core ground rubble and major core washed away
JN12017	42	42.5	sandstone	fault	white	greenish-grey	medium	fractured	sheared and faulted white qtz sandstone with white clay on fractures and 3cm wide clay gouge intervals; core intensely ground and washed away plus two sections of gritty drill mud and ground qtz sandstone (marked CAVE do not sample)
JN12017	42.5	45	lost						LOST 2.5m
JN12017	45	45.5	sandstone	fault	grey	green	medium	sheared	highly sheared and brecciated qtz rich sandstone with elongated cherty looking qtz rich clasts in a grainy looking clay rich mottled matrix; interval has up to 2% pyrite as thin stringers and as margins to qtz rich clasts
JN12017	45.5	48.9	sandstone	hornfels	greenish-grey	purpleish	fine-medium	banded	transition interval to strong hornfels which grades into garnet rich skarn down hole; silicified qtz sandstone variably calcareous altered siltstone which have undergone contact metamorphism becoming more compacted and hard with purple and green bands fo
JN12017	48.9	58.6	hornfels	calc-silicate rock	purple	green purple	fine	banded	compact and hard purple/green hornfels with minor garnet development at 51m and grades into true garnet skarn towards bottom of interval; local discontinuous pyrite stringers and very fine grained pyrhhotite throughout interval

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12017	58.6	71	skarn		brownish	green	fine-medium	banded	very garnet rich skarn interval with light and medium garnet development with common dark green thin chlorite veinlets throughout (which crosscut the general banding ?bedding); local white calcite veins up to 2cm wide between 63.4-64.7m
JN12017	71	77.4	granodiorite		salt and pepper	grey	medium-coarse	altered	biotite rich variably silicified and locally clay altered granodiorite with thick white to tan coloured clay fracture fill coatings (+/- very fine grained sulphides coating slip surfaces with clay); local silica flooding especially at broken upper contact
JN12017	77.4	79.4	lost						LOST 2.0m; at granodiorite-QFP contact
JN12017	79.4	88.5	quartz feldspar porphyry	fault	cream	white	medium	porphyritic	bleached cream/tan coloured 4mm grey qtz eyes floating in a feldspar and clay rich groundmass giving very classic QFP porphyritic texture (looks exactly like the one encountered in JN11010); upper contact has 12cm of clay gouge then 2.0m LOST core then
JN12017	88.5	90	lost						LOST 1.5m; at lower QFP contact; ???possible washed fault at contact???
JN12017	90	91.1	skarn	skarn	tan	buff	fine	retrograde	retrograde skarn as tan coloured carbonate and clay replacement of skarned bed (very similar to beds observed in hole JN12011 et al); interval has local concentrations of fine grained pyrite up to 3%
JN12017	91.1	94	lost						LOST 2.9m
JN12017	94	94.5	skarn	skarn	tan	buff	fine	retrograde	retrograde skarn as tan coloured carbonate and clay replacement of skarned bed
JN12017	94.5	96	skarn		purple green	purple	fine	banded	banded purple green and lesser brown garnet skarn interval; ground core at start of banded skarn versus retrograde skarn above
JN12017	96	97	lost						LOST 1.0m; mislatch and bit change; 6cm of CAVE material not sampled
JN12017	97	108.7	skarn	skarn	green	green purple	fine	banded	
JN12017	108.7	109.7	lost						LOST 1.0m; ground skarn rubble with 5cm clay gouge in skarn immediately after LOST interval
JN12017	109.7	110	skarn	fault	purple	grey	fine	sheared	faulted zone of retrograde carbonate/clay altered skarn interval at upper contact of thick clay altered qtz pebble conglomerate
JN12017	110	116	quartz pebble conglomerate		grey	white	coarse	bedded	pervasive clay altered coarse grained qtz pebble conglomerate (clasts up to 1cm but gentle graded bedding observed with repeats of sequence approximately every 4-5m); clast supported conglomerate with all matrix gone to white (?kaolinite) clay
JN12017	116	119.5	lost						LOST 3.5m
JN12017	119.5	120.6	quartz pebble conglomerate		grey	white	coarse	bedded	pervasive clay altered coarse grained qtz pebble conglomerate
JN12017	120.6	122	lost						LOST 1.4m
JN12017	122	123.5	quartz pebble conglomerate		grey	white	coarse	bedded	pervasive clay altered coarse grained qtz pebble conglomerate with 20cm interval of clay altered grey siltstone interbed at 122.7m; local 5cm wide grey clay gouge intervals between 123.1-123.5; very poor core recovery
JN12017	123.5	123.8	fault	quartz pebble conglomerate	grey	grey-white	medium	sheared	clay gouge rich qtz pebble conglomerate with clay gouge contact 15 degrees to core axis with very clay rich qtz pebble conglomerate (amazing to core this soft gouge and gouge rich qtz pebble conglomerate)
JN12017	123.8	124.5	quartz pebble conglomerate		grey	white	coarse	altered	pervasive clay altered coarse grained qtz pebble conglomerate with 1.5m LOST core at end of interval ??fault washed away
JN12017	124.5	126	lost						LOST 1.5m; possible clay gouge fault zone washed away??
JN12017	126	127.4	quartz pebble conglomerate		grey	white	coarse	altered	pervasive clay altered coarse grained qtz pebble conglomerate with 2.2m lost at end of interval; ??fault washed away
JN12017	127.4	129.6	lost						LOST 2.2m; fault gouge washed away??

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12017	129.6	130.4	quartz pebble conglomerate		grey	white	coarse	altered	pervasive clay altered coarse grained qtz pebble conglomerate with minor tan carbonate throughout
JN12017	130.4	131.4	siltstone	hornfels	grey	green	fine-medium	banded	well bedded clay altered siltstone at end of large qtz pepple conglomerate sequence; minor tan coloured carbonate/clay alteration along fractures with slicken sides outlined by local calcite
JN12017	131.4	135	hornfels	siltstone	purple	grey	fine	banded	purple and tan/grey coloured well banded hornfels (calcareous siltstone layers preferentially altered); minor pyrite alteration in tan carbonate rich bands
JN12017	135	139.5	quartz pebble conglomerate	sandstone	grey	white	medium-coarse	bedded	finer grained portion of qtz pebble conglomerate sequence that is fining upwards
JN12017	139.5	146.6	hornfels	quartz pebble conglomerate	purplish	grey-green	fine-coarse	altered	purple and green intensely silicified ??variably calcareous qtz pebble conglomerate that is now displaying a partially skarned matrix and mottled irregular patchy texture of ?melted qtz clasts in a silicified matrix
JN12017	146.6	153.9	quartz pebble conglomerate		grey	white	coarse	altered	patchy silicification occurs within clay altered quartz pebble conglomerate. Chlorite and epidote occur as clotty alteration within matrix. In silicified sections of core the quartz grains have melted together.
JN12017	153.9	154.5	quartz pebble conglomerate		grey	white	fine	altered	finer grained conglomerate with avg 2 mm grain size. Interval is strongly washed, and fractured. Local fragments of cave material occur through the interval.
JN12017	154.5	156	fault	quartz pebble conglomerate	grey	tan	fine	gouge	dominant clay gouge with quartz fragments from washing of gouge material. Slickenside surface at 10 degrees TCA. 0.5 meters core loss.
JN12017	156	157.9	sandstone	siltstone	greenish	grey	fine	bedded	clay altered, fine grained, tan carbonate on fractures, interbedded
JN12017	157.9	159.2	quartz pebble conglomerate		white		fine-coarse	graded (normal)	quartz pebble conglomerate - poor core recovery, clay alteration, 1 cm quartz veins through the interval
JN12017	159.2	160.2	fault	quartz pebble conglomerate	grey	fine-coarse		gouge	50 % core recovery - fault gouge clasts of quartz vein material and quartz pebble conglomerate within the fault
JN12017	160.2	165	quartz pebble conglomerate		grey	white	coarse	altered	completely ground, washed core, rubble in box. Vein fragments as well as clay altered quartz pebble conglomerate, probable washed clay.
JN12017	165	168.3	fault	quartz pebble conglomerate	white	tan	fine-coarse	gouge	fault gouge, soft clay with quartz pebble conglomerate fragments in the gouge. In places there is a greenish tinge to the clay.
JN12017	168.3	171	fault		white		coarse	gouge	EOH - 171.0 m. Hole abandoned in the fault. Washed core? Grains of quartz sand/grit, with trace sulphide, after 171.0 meters no solid pieces of core. Hole re-drilled at -55 dip, JN12018, HQ core.
JN12018	0	18.6	overburden						0-18.6m Overburden; misc skarn and qtz pebble conglomerate boulders recovered at top of hole; HQ sized core as a 080/-55 redrill of NQ JN13017 that was abandoned at 171m.
JN12018	18.6	22.2	calcareous siltstone	hornfels	grey green	purple	fine-medium	banded	rusty fractures and limonite coated banded weakly hornfels mottled fine to medium grained variably calcareous siltstone
JN12018	22.2	22.5	fault	calcareous siltstone	grey	green purple	fine	gouge	clay gouge rich fault zone in banded hornfels/calcareous siltstone sequence; 30 degrees to core axis
JN12018	22.5	27.4	calcareous siltstone	hornfels	grey green	purple	fine-medium	banded	mottled weakly hornfelsed variably calcareous siltstone; abundant chlorite throughout interval; surface oxidation as rusty limonitic fractures deminishes by end of interval
JN12018	27.4	31.4	siltstone		grey green	green	fine	bedded	interbed of dominantly green coloured siltston with variable amounts of pervasive clay and very thin discontinuous very fine grained pyrite stringers; upper contact is broken and clay rich
JN12018	31.4	35.9	calcareous siltstone	hornfels	grey green	purple gree	fine-medium	interbedded	mottled weakly hornfelsed variably calcareous siltstone with 20% interbeds of green wealy pyritic more massive siltstone as above; interval becomes very weakly silicified down hole

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12018	35.9	37.9	sandstone	hornfels	grey	green	medium	interbedded	zone of dominantly qtz rich sandstone interbedded with hornfels calcareous siltstone (qtz sandstones are equigranular and have fine grained pyrite patches throughout and white clay coating fractures); bedding/banding 30-40 degrees to core axis
JN12018	37.9	41.1	hornfels	calcareous siltstone	grey green	purple	fine-medium	bedded	hornfelsed variably calcareous siltstone that is more silicified than above intervals with local thin discontinuous fine grained pyrite veinlets in bands sub// to bedding/banding
JN12018	41.1	42.7	sandstone		pale	green	medium	veined	massive qtz sandstone bed that is veined by clear and grey qtz and pale green clay coats fracture surfaces; core is highly fractured and ground towards end of interval
JN12018	42.7	43	sandstone	vein	green grey	grey	fine-medium	veined	intensely ground and poor recovery of grey qtz vein material in qtz sandstone host; l.8m LOST core at base of interval
JN12018	43	44.8	lost						LOST 1.8m; ground rubble of qtz vein material and qtz sandstone above lost section and clay rich qtz sandstone below lost interval
JN12018	44.8	45.8	sandstone		pale	green	medium	veined	qtz sandstone bed that is veined by clear and grey qtz stringers up to 1cm wide; interval becomes more clay rich downhole
JN12018	45.8	46.7	sandstone		pale	green	medium	veined	pale green soft intensely clay rich qtz sandstone with thin qtz stringers; interval is partially unconsolidated due to high clay content
JN12018	46.7	47.9	fault	sandstone	pale	green grey	fine-medium	gouge	sheared clay gouge rich faulted section of brecciated pale green qtz sandstone with 2% pyrite around breccia fragments of sheared qtz sandstone
JN12018	47.9	51.5	sandstone	hornfels	green	purple	fine-medium	banded	pale green qtz sandstone that grades into hornfelsed qtz rich siltstone that is silicified at athe upper contact of the qtz eye ?QFP/biotite granodiorite dyke below; silicified siltstone unit has <1% euhedral blebs and thin stringers of fine grained pyrite
JN12018	51.5	54	quartz feldspar porphyry	fault	grey green	grey	medium	porphyritic	pale grey green gouge rich qtz feldspar porphyry interval that has common greenish grey clay along ubiquitous fractures giving core a jig saw breccia texture; large grey euhedral qtz eyes floating in a light grey qtz rich matrix; rare fine grained biotite phenocrysts
JN12018	54	62	granodiorite	quartz feldspar porphyry	grey	salt and pepper	fine	porphyritic	darker grey very qtz rich transition between a classic qtz feldspar porphyry and biotite rich granodiorite; local qtz eyes yet biotite rich intrusive ??dyke
JN12018	62	62.5	sandstone	quartz feldspar porphyry	greenish	light grey	fine-medium	porphyritic	sharp transition to gritty altered ?zenolith of qtz sandstone within the dark grey biotite phyric intrusive unit; lower contact knife sharp at 43 degrees to core axis
JN12018	62.5	64.7	granodiorite	quartz feldspar porphyry	grey	salt and pepper	fine	porphyritic	darker grey very qtz rich transition between a classic qtz feldspar porphyry and biotite rich granodiorite; local qtz eyes yet biotit rich intrusive ??dyke
JN12018	64.7	65.9	granodiorite	skarn	green	grey	medium	porphyritic	transition unit ??endo skarn of green calc silicate minerals with fussy ghost textured sub rounded ??qtz eyes between intrusive and good garnet skarn downhole
JN12018	65.9	69	skarn	fault	brown	green grey	fine	banded	garnet rich skarn with clay gouge between 66.4-66.7m; up to 5% pyrite and pyrrhotite with arsenopyrite and ?bismuthinite between 66.7-66.9m; abundant white calcite veins and fine grained sulphide patches
JN12018	69	70.2	skarn	skarn	green	tan	fine	altered	pale green clay rich skarn which grades into tan coloured very fine grained sulphide rich retrograde skarn by end of interval in contact with sulphide breccia below - altered contact zone to QFP downhole
JN12018	70.2	70.8	breccia		dark	grey	fine	brecciated	dark grey retrograde skarn (carbonate/clay) altered skarn fragments in a silicous sulphide (pyrite and molybdenum) rich fine grained matrix; 5% open space as angular pits up to 1cm; broken lower contact with clay and sulphide rich QFP
JN12018	70.8	73.5	quartz feldspar porphyry		white	light grey	medium	porphyritic	clay rich qtz eye phyric qtz feldspar porphyry interval with clay altered feldspars and clay coated fractures; euhedral qtz eyes up to 9mm across; fine grained pyrite bands and 1mm thick stringers concentrated at upper and lower contacts

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12018	73.5	73.9	skarn	quartz feldspar porphyry	light green	tan	fine	altered	pale green and tan coloured very clay rich skarn with retrograde (carbonate/clay) alteration at lower contact; unit represents the altered lower margin of the QFP ??dyke; local molybdenum blebs throughout
JN12018	73.9	74.4	fault	skarn	dark grey	light green	fine	gouge	light green and dark grey (fine grained sulphides) clay fault gouge; lower contact of QFP with garnet skarn downhole; intense concentration of clay with ultra fine stringers of very fine grained pyrite and ??other sulphides
JN12018	74.4	76.8	skarn		brown	green	medium	banded	brown garnet rich skarn interval that is sheared with common green coloured clay on abundant fracture surfaces
JN12018	76.8	81.1	hornfels	siltstone	dark	purple	fine	veined	dark purple weakly banded hornfelsed siltstone interval with common very thin calcite veinlets at various angles to core axis; interval is moderately broken and soft due to high clay content (white-cream coloured clay and calcite coat fracture surfaces)
JN12018	81.1	86.5	siltstone	fault	brownish	grey green	fine	fractured	intensely fractured brownish green/grey coloured siltstone interval with patches of whitish clay gouge fracture filling; local tan coloured (?more calcareous) carbonate altered interbeds; core is very broken and grades into faulted siltstone downhole; 83.9-84.1m zone of concentrated fine grained pyrite stringers in siltstone
JN12018	86.5	88.6	fault	siltstone	pale	grey green	fine	gouge	very poor core recovery of clay gouge rich fractured an faulted siltstone interval; 3cm wide gouge fracture fill 25 degree to core axis is common throughout ground and washed interval
JN12018	88.6	89.9	fault	hornfels	purple	dark grey	fine	gouge	dark purple coloured hornfels interval with intense amounts of clay gouge at start of interval; common drusy calcite coating fracture surfaces and thin veinlets throughout banded hornfels
JN12018	89.9	108.3	hornfels		purple	green	fine	banded	banded purple and green hornfels which grades into garnet skarn by 108.8m; common deformed alteration fronts/primary soft sediment deformation features preserved in colour bands; minor formation of calc-silicate minerals
JN12018	108.3	121.8	skarn		brown	green purple	fine	banded	banded garnet skarn with preserved primary sedimentary structures; banding in skarn seems to be conformable with bedding in qtz pebble conglomerate core angles downhole; purple hornfels bands display secondary alteration by calc-silicate minerals giving bands a boudinaged like texture
JN12018	121.8	123	fault	skarn	green	brownish grey	fine	gouge	fault gouge rich intensely broken interval of garnet skarn rubble and minor qtz pebble conglomerate at end of interval cemented by clay gouge
JN12018	123	140.8	quartz pebble conglomerate		white	grey	medium-coarse	graded (normal)	well preserved graded bedding fining upwards qtz feldspar pebble conglomerate thick sequence with clay alteration of matrix; light to medium grey coloured subrounded qtz clasts up to 5mm across; dark grey sulfide rich interval between 126.2-130.4m in qtz pebble conglomerate; clay rich zone between 134.6-135.6m with clay fault gouge
JN12018	140.8	141.9	hornfels	quartz pebble conglomerate	light	green	medium	graded (normal)	light green coloured chlorite and sericite altered matrix of graded bedding (fining upward) layer of qtz pebble conglomerate with common thin calcite fracture fill at various angles to core axis
JN12018	141.9	142.2	hornfels	siltstone	grey	purple	fine	banded	grey and purple banded fine grained siltstone unite with common clay along fractures and thin calcite veining; minor pyrite along fractures
JN12018	142.2	142.5	fault	hornfels	grey	grey green	fine	gouge	grey green coloured clay gouge rich fault zone with 0.6m clay altered hornfels and 0.2m clay gouge recovered at start of banded hornfels unit
JN12018	142.5	150.5	hornfels		purple	grey	fine	banded	banded dark purple and grey hornfels of siltstone unite with minor calc-silicate replaces beds (with associated pyrrhotite and pyrite and rare cpy at 148.6m); interval cut by very thin irregular 2mm calcite veinlets
JN12018	150.5	155	quartz pebble conglomerate	fault	white	grey green	medium-coarse	fractured	intensely broken clay altered qtz pebble conglomerate and minor hornfelsed gritty qtz sandstone/siltstone?; grades into qtz veined silicified qtz pebble conglomerate down hole
JN12018	155	157.5	quartz pebble conglomerate		white	grey	medium-coarse	veined	qtz veined silicified qtz pebble conglomerate section with local brown secondary biotite?hornfels bands; rare pyrrhotite and lesser possible bismuthinite observed in qtz veining

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12018	157.5	163	quartz pebble conglomerate		grey	white	medium-coarse	graded (normal)	silicified graded bedding (fining up) qtz pebble conglomerate interval with discontinuous bands and irregular patches of ragged sericite alteration in silica flooded areas; minor clay fracture fill
JN12018	163	167.4	quartz pebble conglomerate		white	grey	medium-coarse	fractured	intensely fractured with clay fracture filling qtz pebble conglomerate; local crackle breccia texture but fragments are not rotated; 165.6-165.9m is zone of dark green chlorite and sericite alteration patch with white calcite stringers and associated minor pyrite blebs in vein
JN12018	167.4	170.2	hornfels	sandstone	purple	grey green	fine-medium	banded	highly fractured interval of hornfelsed siltstone/qtz sandstone interbeds with abundant clay fracture filling
JN12018	170.2	170.9	fault	quartz pebble conglomerate	grey	grey cream	fine-medium	gouge	clay gouge fault zone with 70% clay and angular qtz vein pieces cemented in gouge; core is partially washed away and poor recovery
JN12018	170.9	171	vein	fault	white	grey	fine	veined	10cm zone of angular qtz vein fragments as washed rubble intensely washed away during drilling process; LOST1.1m between next two meter blocks…?washed away fault/vein?
JN12018	171	172.1	Lost						LOST 1.1m; very gouge rich and qtz vein material so suspect clay gouge washed away during drilling process
JN12018	172.1	173.3	fault	vein	grey	white	fine	gouge	gouge rich poorly recovered interval with common <10cm zones of qtz vein material cemented by clay gouge - intense washing during drilling process; dark grey very fine grained pyrite (?and other fine grained sulphides?) polished on slickensided surfaces of qtz vein fragments throughout interval
JN12018	173.3	187.1	quartz pebble conglomerate	vein	grey	white grey	medium	fractured	highly fractured and qtz veined section of qtz pebble conglomerate rubble - difficult to have good core recovery as clay rich and qtz rich….; zones of qtz veins up to 3cm thick but generally 1cm wide; 73.3-76.1m is a zone of concentrated 15/m thin pyritic sheeted fractures and local polished fine grained sulphides on slick surfaces 40 degrees to core axis
JN12018	187.1	188.4	fault	retrograde skarn	tan	yellowish	fine	gouge	retrograde altered carbonate/clay skarn clay gouge rich faulted interval at top of >90m of variably altered and veined magnetite rich skarn
JN12018	188.4	194.1	skarn	hornfels	green	brownish	fine	veined	transition zone of brown patches of hornfels cut by low angle network of dark green chlorite and associated skarn alteration envelopes to garnet/pyroxene skarn below
JN12018	194.1	195	skarn		dark green	brown	fine-medium	banded	dominantly light brown garnet bands and fractured crystals up to 2cm wide in a dark green chlorite or sericite matrix; 10% tan retrograde alteration of carbonate and clay; common thin pyrite stringers throughout interval
JN12018	195	197	retrograde skarn	gouge	tan	greenish yellow	fine	gouge	clay gouge rich tan coloured retrograde skarn interval - local fractures coated with very fine grained sulphides and 2mm euhedral pyrite cubes
JN12018	197	197.6	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	patches	dark grey semimassive pyrite and chalcopyrite (other fine grained sulphides?) in retrograde altered skarn
JN12018	197.6	201.5	retrograde skarn		tan	greenish yellow	fine	altered	tan greenish yellow coloured clay rich retrograde skarn with irregular dark grey (?sulphide rich) patches and sulphides on fracture surfaces
JN12018	201.5	202	semi-massive sulphide	retrograde skarn	tan	black	fine	retrograde	dull black coloured magnetite skarn with irregular patches of tan retrograde alteration; interval is speckled and cut by hair width thin carbonate stringers
JN12018	202	204.9	retrograde skarn	semi-massive sulphide	tan	dark grey	fine	retrograde	tan coloured retrograde carbonate/clay altered skarn with patch of fine grained magnetite and other fine grained sulphides between 202.7-203m
JN12018	204.9	209.3	skarn	semi-massive sulphide	green	tan	fine	patches	dark and lighter green prograde skarn with irregular patches of fine grained magnetite; 10% altered and replaced by tan carbonate/clay retrograde alteration with pyrrhotite and pyrite veinlets throughout
JN12018	209.3	209.9	retrograde skarn		tan	dark grey	fine	retrograde	tan coloured retrograde skarn interval in prograde chlorite/actinolite skarn with magnetite larger interval; magnetite clots in retrograde skarn cut by low angle to core axis pyrite and pyrrhotite veinlets clearly replacing magnetite

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JN12018	209.9	210.3	semi-massive sulphide	skarn	black	green	fine	altered	zone of dominantly semimassive magnetite in a dark and medium green mottled prograde skarn; cut by very thin tan retrograde carbonate/clay alteration veinlets with local pyrrhotite
JN12018	210.3	210.6	retrograde skarn		tan	dark grey	fine	retrograde	retrograde carbonate/clay altered zone with crude discontinuous bands of thin sulphide veinlets; very altered swirly texture to sulphides in a tan soft matrix
JN12018	210.6	211.7	skarn	semi-massive sulphide	green	brass	fine	veined	banded green and brassy prograde skarn interval that contains abundant 0.5-1cm wide sheeted pyrrhotite bands throughout; local calc-silicate chert like bands sub// to pyrrhotite banding which are overprinted by very thin pyrite/pyrrhotite fracture set at low angle to core axis
JN12018	211.7	215.8	skarn		green	dark grey	fine	veined	very banding due to intense concentration of thin (generally less than 1mm wide) tightly spaced sheeted qtz veins and dark chlorite fractures (58 degrees to core axis); minor hematite; garnet bands are partially ?replaced by dark green chlorite as garnet cores with dark green rims
JN12018	215.8	219.6	semi-massive sulphide	skarn	dark grey	green	fine	banded	zone of concentrated semi to massive sulphides with pyrite/magnetite/pyrrhotite in green chlorite and pyroxene skarn with common altered and fractured garnet bands
JN12018	219.6	222.3	skarn		dark green	brown	fine	veined	banded garnet rich prograde skarn cut by miard of thin fractures with ragged alteration envelopes giving core a mottled appearance; loally zoned and fractured garnets getting replaced by chlorite
JN12018	222.3	223.9	retrograde skarn		tan	greenish yellow	fine	retrograde	clay rich tan coloured retrograde carbonate/clay skarn interval with minor dark grey irregular patches of very fine grained ?sulphides
JN12018	223.9	224.2	semi-massive sulphide	skarn	dark grey	tan	fine	veined	zone of concentrated pyrite and fine grained sulphide stringers in retrograde skarn interval; white blue coloured ???clay (often found in zones of concentrated sulphides) at core of interval; broken and highly deformed 1.3cm wide qtz vein at 334m with very bright spec of ?f.g. cpy??in fracture of qtz vein fragment
JN12018	224.2	225	retrograde skarn		tan	yellowish green	fine	veined	tan retrograde skarn interval with irregular patches of very fine grained sulphides; interval very clay rich - almost gouge with tan carbonate veinlets 30 degrees to core axis
JN12018	225	227.1	skarn		green	brownish	fine-medium	mottled	zone of prograde garnet pyroxene skarn with abundant dark green chlorite fracture fill and overprinting garnets; late calcite along irregular sub// to core axis fractures throughout interval
JN12018	227.1	228	semi-massive sulphide	skarn	dark grey	green	fine	banded	semimassive fine grained magnetite in prograde pyroxene skarn; magnetite is overprinted by light green and tan retrograde skarn - gives a patchy jigsaw breccia texture to core; minor hematite
JN12018	228	228.4	retrograde skarn	semi-massive sulphide	tan	dark grey	fine	veined	zone of semimassive magnetite in tan retrograde carbonate/clay altered skarn cut by sheeted qtz veins with native bismuth; bismuthinite; cpy; and molybdenum in qtz
JN12018	228.4	230	retrograde skarn		tan	white	fine	veined	intense sheeted qtz veining in tan retrograde skarn; lesser concentration of magnetite bands than above interval (only remnant patches remain in this interval); sulphides difficult to observe in qtz veining here
JN12018	230	231	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	veined	zone of intense concentration of fine grained pyrite stringers and other sulphides in tan coloured retrograde skarn interval; pyrite dominant sulphide however magnetite bands were noted as well as presence of chalcopyrite and molybdenum
JN12018	231	244.7	retrograde skarn		tan	dark grey	fine	veined	tan retrograde skarn interval that is intensely veined by sheeted qtz stringers <1cm wide with pyrite and magnetite bands cutting unit as well (minor cpy observed)
JN12018	244.7	253.8	skarn	semi-massive sulphide	dark green	dark grey	fine	banded	dark green prograde pyroxene skarn interval with patches of magnetite that is overprinted by fractures with chlorite alteration envelopes leaving irregular shaped magnetite patches; core locally spotted with chlorite after garnets?
JN12018	253.8	254	retrograde skarn	skarn	tan	dark green	fine	banded	mixed interval of dominantly tan retrograde skarn at bottom of magnetite rich prograde skarn and retrograde skarn downhole; contact is veined by discontinuous qtz veins with dark green chlorite rims; common thin ragged calcite stringers at various angles to core axis

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JN12018	254	260	retrograde skarn	semi-massive sulphides	tan	dark grey	fine	mottled	tan mottled retrograde skarn interval with patches and bands of fine-medium grained arsenopyrite/pyrite bands (254-254.1, 256-256.2, 256.5-257.7m) with associated white qtz veins (veins are discontinuous and fractured and contain local bismuthinite and pyrite, trace native bismuth)
JN12018	260	262.1	skarn		dark green	brownish	fine-medium	banded	dark green prograde pyroxene skarn interval with network of overprinting chlorite fracture fill - gives core a weak jigsaw breccia like texture; garnet bands are being replaced by dark green chlorite
JN12018	262.1	262.6	retrograde skarn	quartz feldspar porphyry	light green	tan	fine	fractured	light greenish tan coloured retrograde skarn upper contact zone of quartz feldspar porphyry ?dike; interval is crumbly and clay rich; fractues coated by very fine grained sulphides
JN12018	262.6	264.4	quartz feldspar porphyry		white	light grey	fine-medium	veined	white intensely veined quartz eye phyric porphyritic ?dyke; clay altered fine grained matrix; qtz veins contain variable concentrations of fine grained pyrite stringers and local thin fracture fill of bismuthinite and blebs of chalcopyrite; local blebs of molybdenum in qtz veinlets
JN12018	264.4	264.9	retrograde skarn	quartz feldspar porphyry	tan	light grey	fine	mottled	lower contact zone of quartz feldspar porphyry with retrograde skarn unit downhole; skarn is intensely qtz veined with associated fine grained pyrite and local bismuthinite in qtz stringers
JN12018	264.9	265.8	retrograde skarn		tan	yellowish	fine	mottled	tan coloured very clay rich retrograde skarn with common sheeted and stockwork qtz veins with local fine grained sulphides
JN12018	265.8	267.8	skarn		dark	green	fine	mottled	dark green prograde pyroxene rich skarn with irregular shaped patches and swirls of hematite; 7 white qtz vein (sheeted) with pyrite and local native bismuth in qtz; upper contact highly convoluted - alteration front is non planar
JN12018	267.8	267.9	retrograde skarn		tan	yellowish	fine	veined	upper alteration envelope to large interval of highly mineralized and qtz veined retrograde skarn downhole
JN12018	267.9	269.5	retrograde skarn	semi-massive sulphide	dark grey	white	fine	veined	very sulphide and qtz rich interval of retrograde skarn with pyrite/bismuthinite/chalcopyrite/molybdenum noted in qtz stringers and semi-massive sulphide bands
JN12018	269.5	276.6	retrograde skarn		tan	black	fine	banded	black and tan magnetite rich retrograde skarn interval with bands of massive fine grained magnetite and lesser pyrite (272.9-273.2m is semimassive pyrite); retrograde skarn is very clay rich and locally pitted and crumbly
JN12018	276.6	281	skarn		dark green	black	fine	banded	prograde pyroxene (and local garnet) skarn with discontinous bands of fine grained magnetite overprinted by pyrrhotite and lesser chalcopyrite; abundant chlorite fracture fill
JN12018	281	284.5	retrograde skarn		tan		fine	altered	very clay rich tan coloured retrograde skarn interval - locally very crumbly and broken….thin qtz veins locally preserved and rare molybdenum fracture fill preserved in clay rich interval
JN12018	284.5	286.4	skarn	retrograde skarn	light green	white	fine	bedded	light tan to chalky white to pale green/white coloured lower contact zone of large retrograde/prograde magnetite rich skarn interval to hornfels metasediments downhole; thinly bedded clay rich siltstone interval between 285-285.6m
JN12018	286.4	286.8	skarn	hornfels	green	light green	fine	mottled	transitition zone from major skarned interval above to hornfels; unit is silicified and weakly banded
JN12018	286.8	300.2	hornfels		brownish	green	fine	banded	brown and green banded hornfels with patchy weak silicification and cut by numerous very thin qtz and calcite veinlets (rare crackle breccia zones with calcite fracture fill); common patches of fine grained pyrite in thin qtz veins and fracture filling; upper contact has dirty brown calcareous matrix (possible altered mafic dyke??)
JN12018	300.2	300.9	skarn	hornfels	green	light green	fine	veined	small silicified green mottled chlorite rich skarn interval with sericite and pyroxene in matrix and cut by numerous white qtz veins with chlorite selvages; minor pyrite observed
JN12018	300.9	304.3	hornfels	siltstone	light grey	brownish	fine	veined	light grey/brown banded silicified siltstone hornfels with irregular patches of biotite; interval is veined by thin calcite stringers and irregular patches of white ??qtz sweats/veins
JN12018	304.3	304.7	vein	hornfels	white	brownish	fine	veined	white qtz vein with two 3cm2 fragments of sericite altered hornfels siltstone fragments in qtz; slickenside fracture surface on lower contact; trace fine grained pyrite in qtz vein

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JN12018	304.7	312	hornfels	sandstone	light grey	brownish	fine-medium	veined	EOH 312m; silicified hornfels quartz sandstone interval with tourmaline flooded irregular breccia zone between 306.1-307m; unit is locally flooded by qtz with thicker qtz veins at 308.2, 309, 309.5, and 311.8m with trace pyrite and pyrrhotite; common qtz veining and hair width late calcite fracture fill
JN12019	0	39.5	overburden						0-39.5m Overburden; misc rusty qtz pebble conglomerate double ground rubble and pyrite rich siltstone recovered at top of hole….third attempt at driving casing at this location with skarn boulders and abundant clay rubble recovered by not logged or sampled
JN12019	39.5	40.2	fault	quartz pebble conglomerate	orange	light grey	fine-medium	gouge	intensely rusty and highly fractured oxidized rubble of dominantly qtz pebble conglomerate and sections of dull brown-white clay gouge cementing qtz pebble conglomerate fragments - possibly ??not solid bedrock yet??
JN12019	40.2	44.4	quartz pebble conglomerate		orange	light grey	medium-coarse	fractured	rusty highly broken qtz pebble conglomerate with feldspars altered to clay; limonite coated fractures and rusty matrix locally; common 0.5-4cm qtz veins/stockwork (qtz is highly fractured and limonitic with common clay ??after feldspars clots within the qtz) in qtz pebble conglomerate (43.5m is 40cm of doubly ground caved material not sampled); possible this is not solid bedrock yet??
JN12019	44.4	45	siltstone		orange	grey green	fine	fractured	fine grained grey green coloured siltstone interbed with rusty fracture surfaces; siltstone fragments are qtz veined and contain 1% fine grained pyrite in qtz and with clay at 44.8m
JN12019	45	45.9	fault	quartz pebble conglomerate	orange	grey	fine-medium	gouge	intensely fractured limonitic 2cm2 pieces of qtz pebble conglomerate recovered; 10% limonitic clay gouge cementing qtz pebble conglomerate fragments
JN12019	45.9	46.6	quartz pebble conglomerate		orange	grey	medium	fractured	intensely limonitic medium grained qtz pebble conglomerate interval with feldspars altered to clay; common dry fractures have 2cm alteration envelope of limonite Fe oxide; highly fractured interbedded sequence of sediments
JN12019	46.6	48	quartz pebble conglomerate		dark	grey	medium-coarse	graded (normal)	intensely silicified qtz pebble conglomerate interval with 5-10% fine grained pyrite in matrix of conglomerate with 2cm semimassive band of pyrite at 46.9m along slickensided fracture surface-sx associated with clay at 46.9m; fractures coated with yellow/orange limonitic clay
JN12019	48	49.8	siltstone		dark	grey green	fine	interbedded	dark grey green coloured fine grained siltstone with common rusty fracture surfaces and intensely veined by thin pyrite stringers at various angles to core axis; unit becomes silcified and coarser grained downhole; at 49.4m local small scale brittle offsets of pyrite stringers showing 3mm sinstral sense of motion
JN12019	49.8	50.9	quartz pebble conglomerate		dark grey	white	fine-medium	veined	dark grey qtz pebble conglomerate silicified interval with fine grained pyrite in matrix of conglomerate and 50.2-50.8m is a >3cm wide white qtz vein running down core fragments; fine grained sulphides and clay coat common fracture surfaces
JN12019	50.9	53.9	quartz pebble conglomerate	vein	orangish	light grey	medium-coarse	veined	graded fining upward qzt pebble conglomerate with 20% limonitic clay gouge throughout interval making core crumbly - clay is selectively altering the matrix of the conglomerate; 51.9-52.1m is a 9cm white qtz vein with common limonitic qtz pebble conglomerate fragments within the qtz
JN12019	53.9	55.2	siltstone		grey	green	fine	interbedded	interbed of fine grained siltstone within qtz pebble conglomerate; highly fractured and limonitic with very thin discontinuous fine grained pyrite stringers and fracture fill
JN12019	55.2	57.1	quartz pebble conglomerate		light grey	grey	medium-coarse	graded (normal)	clay rich interval of graded fining upward qtz pebble conglomerate; very minor siltstone at 56.5m; clay gouge occures in matrix of conglomerate throughout highly fractured interval; 57-63m is intensely ground and rock rubble in core box with 1.3m LOST at 57.1m
JN12019	57.1	58.4	lost						LOST 1.3m; in a section of intensely ground and caved core fragments (mostly qtz pebble conglomerate rubble recovered)
JN12019	58.4	59	quartz pebble conglomerate		light	grey	medium	graded (normal)	clay coating fracture surfaces of ground and fractued qtz pebble conglomerate pieces in caved and lost core interval; start of suspect CAVED/ground interval between 59-70.6m - bit change and rubble recoved with severe core loss!!

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JN12019	59	70.6	lost	quartz pebble conglomerate	light grey	whitish	medium	fractured	LOST and CAVED ground rubble recoved during heavy washing and several hours of reaming after bit change - entire interval rounded ground qtz pebble conglomerate (and rare qtz vein material with molybdenum blebs) 2-4cm3 rubble - not sampled!!
JN12019	70.6	71.4	siltstone	fault	brownish	orange tan	fine	gouge	very clay rich banded and locally boudinaged beds of fine grained siltstone; after CAVED/LOST >10m of core….unit is crumbly and locally cut by thin pyrite stringers
JN12019	71.4	72	siltstone		greenish	grey	fine	banded	crudely banded siltstone with common thin sub// and crosscutting pyrite stringers; unit has significant clay content and is crumbly in places; broken contacts
JN12019	72	73.9	siltstone	fault	brownish	tan	fine	banded	banded clay rich transition to intense heterolithic fault breccia zone to 96m; clay increases downhole with dark grey very fine grained sulphides in limonite/goethite rich fault
JN12019	73.9	77.5	fault	breccia	orange white	light green	fine	brecciated	light orange/white clay gouge matrix to light green siltstone fragmental fault breccia; siltstone fragments are angular and randomly oriented within a clay gouge matrix
JN12019	77.5	85.7	fault	breccia	dark grey	light tan	fine	brecciated	dark grey pyrite rich gouge matrix to dominantly tan to light green coloured siltstone angular breccia fragments as well as dark grey graphitic fragments and patches - unit is crumbly and variable with swirly soft sediment deformation of thinly laminated beds which grades into intensely brecciated heterogenous ?tectonic breccia - intensley graphitic between 84.2-85.7m and this interval also has local 2x4cm rounded open space ??graphite pockets washed during drilling??…looks similar to turbidite sequences and associated brecciation observed elsewhere in Selwyn basin….source of the POW Zone EM conductor??
JN12019	85.7	87.5	fault	breccia	light	grey green	fine	banded	light grey green finely laminated qtz siltstone that is locally banded and locally brecciated siltstone fragments within a clay gouge rich matix;
JN12019	87.5	89.5	fault	breccia	light grey	black	fine	brecciated	mixed zone of graphitic & pyritic black clay gouge with breccia fragments of light grey banded/thinly laminated siltstone and larger <25cm wide intervals of competent siltstone with irregular contacts to graphitic/pyritic gouge- interval is highly broken and crumbly in gouge rich areas
JN12019	89.5	91	fault	breccia	black	dark grey	fine	gouge	black graphititc and pyrititic gouge rich interval with less than 10% 1-2cm2 siltstone fragments
JN12019	91	92.4	fault	siltstone	light	grey green	fine	laminated	light grey green qtz rich siltstone with local small scale faulting along hair width fractures - soft sediment deformation features observed in more competent raft of siltstone within a larger graphitc very gouge rich breccia zone
JN12019	92.4	95.4	fault	breccia	black	light grey	fine	gouge	black graphitic and pyrititic gouge rich interval with smaller than above angular siltstone breccia fragments floating in a graphitic gouge matrix; lower contact is crumbly and fractured with skarn below; 5cm wide massive pyrite fragments recovered at 93m in broken core clay rich rubble
JN12019	95.4	96	retrograde skarn	fault	tan	yellowish	fine	retrograde	tan coloured retrograde skarn that is intensely clay rich and soft; fine grained pyrite stringers and fracture fill give local brecciated texture; crumbly clay gouge rich core
JN12019	96	98.9	retrograde skarn	fault	brownish	tan	fine	retrograde	intensely oxidized magnetite skarn interval in retrograde skarn which is soft and unconsolidated; magnetite is intensely oxidized and remnant goethite/limonite coated blebs in crude bands occur in yellowish clay gouge
JN12019	98.9	99.8	retrograde skarn	fault	whitish	light grey	fine	gouge	white coloured (?talc rich) clay gouge with dark grey ?fine grained sulphide rich patches and local fine grained pyrite crumbly bands at end of interval; local 1mm sized blebs of fine grained pyrite blebs throughout
JN12019	99.8	102	lost						LOST 1.2m; clay gouge rich skarn to competent rock - garnet and magnetite skarn down hole so core washed away at end of clay gouge interval
JN12019	102	103.2	skarn	fault	orangish	brown green	fine-medium	altered	intensely oxidized and clay rich garnet skarn with light green/yellowish coloured ??retrograde skarn - so oxidized it is difficult to tell; local remnant black magnetite thin bands; abundant geothite and limonite

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JN12019	103.2	103.5	skarn	fault	dark grey	green brown	fine-medium	banded	zone of concentrated fine grained magnetite in clay rich skarn interval with green ?epidote bands as well as brown garnets up to 3mm across grouped in coarse bands
JN12019	103.5	105.1	skarn	fault	white	tan	fine	gouge	white to pale tan/light green coloured clay gouge with minor tan coloured clay altered siltstone fragments at end of interval; interval is peppered with 2% fine grained euhedral pyrite cubes and local dark grey ?fine grained sulphide patches; possible talc in clay gouge -- end of major clay gouge fault zone from 70.6m!
JN12019	105.1	110.5	retrograde skarn	fault	green grey	reddish	fine-medium	banded	pervasive clay rich retrograde skarn interval with bands of hematized garnets; local dark green chlorite/pyroxene bands; gouge rich section between 106.7-107.5, 109.5-109.9m; patchy epidote; rare magnetite blebs but common dark red/brown goethite ??after magnetite with common hematite/limonite
JN12019	110.5	112	lost						LOST 1.5m; ground clay rich rubble after lost washed core
JN12019	112	112.5	retrograde skarn	fault	dark grey	tan	fine	gouge	broken clay rich dark grey and tan patchy retrograde skarn interval with dark grey fine grained pyrite (and other ?sulphides) and minor qtz vein material as broken rubble
JN12019	112.5	118.8	skarn	retrograde skarn	brown	green grey	medium	massive	brown/reddish garnet rich interval with fractured garnets up to 1.2cm across in a tan to pale green retrograde skarn matrix - pervasive clay alteration of unit making for local crumbly sections; fine grained pyrite as thin fracture fill especially between 117.5-118m
JN12019	118.8	121.4	skarn		dark	green	fine-medium	mottled	dark green chlorite altered pyroxene skarn interval with discontinuous bands and patches of fine grained garnet; local qtz/calcite with pyrite stringers with associated silicification and hematite alteration envelopes
JN12019	121.4	122	retrograde skarn	fault	green tan	brownish	fine-medium	mottled	tan greenish brown ?retrograde skarn with patches of brown garnets in clay rich matrix; fine grained sulphide patches and irregular shaped qtz vein fragents locally
JN12019	122	122.5	skarn		dark	green	fine	mottled	dark green chlorite altered pyroxene skarn solid core segment within larger retrograde altered skarn interval; discontinuous patches of fine grained garnet and thin irregular qtz/calcite/py veinlets cut interval
JN12019	122.5	133.8	retrograde skarn	skarn	tan green	brownish	fine-medium	mottled	tan green brown ?retrograde garnet and chlorite rich clay altered skarn interval with common garnets up to 1cm across; irregular patches of dark green chlorite and pyroxene; common earthy red hematite staining as alteration envelopes to dry fractures at various angles to core axis especially between 128.-130.2m; common dark green-black coloured chlorite coats fractures; fine grained pyrite between 124-124.3, 131.3m
JN12019	133.8	134.3	skarn		dark	green	fine	mottled	solid section of pyroxene skarn with 10% discontinuous garnet development; common chlorite; interval is cut by several thin mm scale calcite/qtz 3mm wide stringers with hematite alteration envelopes
JN12019	134.3	135	retrograde skarn	skarn	tan	light green	fine-medium	mottled	end of large clay altered garnet rich skarn interval; very irregular alteration front upper contact with competent pyroxene skarn section above; sharp planar lower contact with classic retrograde skarn interval below; minor fine grained sulphides at 134.9m coating fractures
JN12019	135	135.9	retrograde skarn		tan	whitish	fine	banded	classic retrograde carbonate/clay alteration skarn interval; very fine grained altered siltstone bands with intense carbonate fracture fill; interval cut by two thin fine grained sx (py mainly) veinlets….gradational contact to sx rich end of interval between 135.6-135.9m
JN12019	135.9	136.3	massive sulphide	retrograde skarn	dark	grey	fine	massive	massive fine grained pyrite with minor relict fragments of retrograde tan carbonate/clay altered skarn and bluish chalcedonic qtz veinlets; locally pitted mm scale open space
JN12019	136.3	136.5	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	banded	less concentrated fine grained pyrite in tan retrograde skarn with abundant clay; core is crumbly and semimassive fine grained pyrite give core a brecciated look; locally pitted
JN12019	136.5	137.5	fault	retrograde skarn	tan	yellow green	fine	gouge	tan yellow greenish coloured clay gouge rich retrograde skarn interval with geothite and hematite staining fractures - very soft and crumby interval

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12019	137.5	138.2	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	banded	semimassive fine grained pyrite in tan retrograde skarn with local white chalky ?clay mineral filling 1mm pits
JN12019	138.2	140.1	retrograde skarn	semi-massive sulphide	tan	dark grey	fine	retrograde	more massive tan coloured retrograde skarn interval with one irregular patch of very fine grained sulphides at 139.2m; interval is cut by thin sheeted qtz veins; local sericite in matrix of skarn
JN12019	140.1	141.8	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	banded	semi-massisve fine grained pyrite in tan retrograde skarn with clay rich segments of less mineralized skarn up to 20 cm long but dominantly fine grained pyrite; at 141m is slickensides along fracture with polished pyrite coating slip surface; at least two phases of pyrite mineralization with coarser euhedral cubes on fractures cutting finer grained more massive bands; rare calcedony in most concentrated sections of sulphides
JN12019	141.8	146	retrograde skarn		tan	dark grey	fine	retrograde	more massive and less mineralized section of tan coloured carbonate/clay retrograde skarn with fine grained pyrite associated with thin qtz stringers between 143.1-143.4 and 144.9-145.2m; interval is cut by local thin discontinuous boudinaged qtz stringers in sub// sets/sheeted veins with trace fine grained pyrite
JN12019	146	147.6	skarn		dark	green	fine	banded	dark green pyroxene skarn interval with discontinuous bands of fractured garnets; patchy silicification around zones of white calcite>>qtz (with fine grained pyrite and lesser pyrrhotite) veinlets; upper contact is clay rich and broken with epidote and hematite staining as alteration envelopes to thin chlorite fracture fills
JN12019	147.6	149.4	fault	retrograde skarn	tan	greenish yellow	fine	gouge	tan greenish yellow coloured gouge with relict textures of garnet rich skarn all fractured and pulled apart; 148.3-148.8m is section of classic tan retrograde skarn with very fine grained sulphides coating fractures in qtz rich zones-local small scale brecciation due to qtz veining/flooding; lower contact very clay rich and broken
JN12019	149.4	156	skarn		dark	green	fine	banded	silicified pyroxene skarn with common boudinaged light to medium brown garnet bands; patchy silicification associated with qtz/calcite veinlets; tungsten mineralization increases downhole (UV lamp indicates scheelite in bands and fine grained dissemination); local hematite alteration envelopes to thin calcite/chlorite fracture fill; Reduce from HQ to NQ at 154.8m with core loss
JN12019	156	158	lost						LOST 2.0m; due to reducing from HQ to NQ core and encountered a significant hardness change from massive pyroxene skarn to clay altered retrograde skarn zone
JN12019	158	158.3	fault	skarn	greenish yellow	tan	fine	gouge	clay gouge faulted retrograde skarn interval with lost core interval - likely this unit was washed away during drilling; dark grey fine grained sulphides coat fracture surfaces at start of core recovered - broken lower contact with classic tan retrograde skarn downhole
JN12019	158.3	158.6	retrograde skarn		tan	whitish	fine	retrograde	tan coloured retrograde skarn interval with local fine grained pyrite and arsenopyrite coating fractures and selvages of thin qtz veinlets at 158.4m; white ?kaolinite locally
JN12019	158.6	158.9	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	retrograde	semimassive sulphides in tan retrograde skarn interval; leads into more massive sulphides in qtz rich interval down hole - fine grained pyrite, pyrrhotite observed
JN12019	158.9	160	massive sulphide	retrograde skarn	dark grey	tan	fine	altered	zone of concenrated fine grained pyrite, pyrrhotite, local chalcopyrite and trace bismuthinite in qtz (chalcedony) rich banded retrograde skarn interval; pyrrhotite band crosscuts very thin sheeted qtz veins in massive pyrite; scheelite also noted at 158.7m with UV lamp
JN12019	160	162.8	retrograde skarn	semi-massive sulphide	tan	dark grey	fine	retrograde	dominantly tan retrograde carbonate/clay skarn with intense concentration of 1-3mm wide sheeted thin qtz veins and irregular shaped bands of fine grained pyrite
JN12019	162.8	163.4	semi-massive sulphide	retrograde skarn	dark grey	tan	fine	altered	zone of concentrated fine grained pyrite, arsenopyrite and lesser pyrrhotite with common open space along fractures - core is rotten and frothy with white ?kaolinite coating fractures
JN12019	163.4	164.4	retrograde skarn		tan	whitish	fine	retrograde	clay rich lower contact of retrograde skarn interval; significant core loss here; clay rich crumbly skarn with minor dark grey fine grained sulphides along fractures

Hole Number	From(m)	To(m)	Rock Type	Minor Rock Type	Pri Colour	Sec Colour	Grain Size	Pri Texture	Notes
JN12019	164.4	173	skarn		dark	green	fine	banded	dark green pyroxene rich prograde skarn with bands of light to medium brown garnet bands overprinted by thin dark green chlorite veinlets (make garnet bands look boudinaged); local actinolite; minor scheelite obsered with UV lamp; 2/m milky white calcite veins cut poorly mineralized competent interval
JN12019	173	174.1	retrograde skarn	fault	greenish	tan	fine	gouge	transition to retrograde skarn downhole is clay rich greenish tan coloured skarn with 10% remnant garnet beds in crumbly clay; minor fine grained sulphides at 173.6m
JN12019	174.1	174.7	skarn		dark	green	fine	banded	competent section of prograde skarn between two clay rich retrograde intervals; common hemaitite staining and tightly spaced dark green chlorite sheeted veinlets
JN12019	174.7	175.2	fault	skarn	greenish	brown	fine	gouge	faulted crumbly section of prograde garnet/chlorite skarn as it grades into crumbly retrogade skarn with massive sulphides downhole
JN12019	175.2	175.5	retrograde skarn		tan	whitish	fine	retrograde	crumbly whitish/tan retrogade hanging wall to massive sulphides downhole
JN12019	175.5	177.8	massive sulphide	retrograde skarn	dark	grey	fine	veined	zone of fine grained sulphides (pyrite>pyrrhotite) with tightly spaced sheeted thin qtz stringers and common open space pits in massive sulphides; interval is broken and fractured
JN12019	177.8	178.5	fault	retrograde skarn	tan	dark green	fine	veined	crumbly faulted retrograde skarn interval in middle of massive pyrite (and pyrrhotite) sulphide; interval is very clay rich and pitted and crumbly yet sulphide rich
JN12019	178.5	179.9	massive sulphide	retrograde skarn	dark	grey	fine	veined	continued zone of intensely qtz veined fine grained massive pyrite and patchy pyrrhotite in qtz rich retrogade skarn interval; common drusy pyrite and qtz lined open space along fractures; minor small scale brecciation
JN12019	179.9	184.1	skarn		dark	green	fine	veined	sharp change to prograde pyroxene skarn with common pyrrhotite and discontinuous qtz veins with local chalcopyrite rimming pyrrhotite/qtz veinlets/bands
JN12019	184.1	193.2	skarn		dark	green	fine	massive	massive section of prograde pyroxene skarn lacking mineralization with noted scheelite by UV lamp and very thin discontinuous calcite veinlets with local hematite staining around dry or chlorite filled fractures. 190.6 - 193.2 m zone of coarse grained poly metallic quartz veins hosting native bismuth and bismuthinite.
JN12019	193.2	194.2	retrograde skarn	skarn	tan	dark green	fine	mottled	retrograde skarn with irregular fluid flow contacts, alteration proximal to polymetallic quartz veining.
JN12019	194.2	194.8	vein		white	dark grey	fine-coarse	veined	polymetallic quartz vein hosting pyrrhotite, pyrite, sphalerite, chalcopyrite, bismuthinite, bismuth, arsenopyrite, scheelite. Locally banded from multistage mineralization.
JN12019	194.8	198.3	skarn	hornfels	green	light green	fine-medium	mottled	chill zone - silicified prograde skarn, contact zone to intrusive down hole, overprinted by fine grained sulphide stringers and bands, broken garnet bands. Abundant disseminated scheelite.
JN12019	198.3	199	granodiorite		white	grey	fine-medium	altered	silicified, altered, veined equiganular biotite phyric granodioritic intrusion; interval is broken at upper contact of the granodiorite; sulphides mostly pyrite coat fractures locally throughout interval
JN12019	199	199.4	hornfels	granodiorite	purple	green	fine	altered	purple and green banded hornfels ?zenolith within granodiorite; contacts with granodiorite are sub parallel to core axis and non planar contacts
JN12019	199.4	207.2	granodiorite		white	grey	fine-medium	equigranular	highly altered granodiorite, sericite after biotite. Mosaic of pyrite fracture fill, fine-coarse grained, trace bismuthinite, pyrrhotite, and scheelite.
JN12019	207.2	210	hornfels		grey green	purpleish	fine	altered	EOH - 210.0 meters. Intensely silicified quartz stockworked,hornfels below intrusive, possible zenolith. Appears that the hole is skipping along the intrusive contact. Chill margins and contacts are sharp, average 20 degrees TCA.

Appendix 4.1.3 - Mineralogy

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DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12011	18.8	27.8	disseminated	% grained none	2
JN12011	23.4	24	stringers	1% veinlets fine grained pyrrohite	1
JN12011	24	27.8	disseminated	0.5% disseminated fine grained pyrite, 0.5% stringers fine grained pyrite	1
JN12011	30.5	30.8	disseminated	5% disseminated very fine grained pyrite	0
JN12011	39	40	blebby	1% disseminated FINE grained pyrite, 0.5% disseminated fine grained pyrite, 0.5% stringers fine grained pyrrhotite, 0.01% disseminated very fine grained magnetite, 0.01% blebby fine-medium grained molybdenite	
JN12011	40	52	disseminated	0.01% disseminated fine grained pyrite	
JN12011	62.4	70.7	stringers	0.01% STRINGERS fine grained pyrrhotite, 0.01% BLEBBY fine grained pyrite	
JN12011	85.1	89	fractures	0.5% FRACTURES fine grained pyrite	
JN12011	92.8	93.7	disseminated	0.01% DISSEMINATED fine grained pyrite, 0.5% STRINGERS very fine grained sulphides	
JN12011	95.9	97.3	stringers	0.5% STRINGERS very fine grained pyrite, 0.5% FRACTURES very fine grained pyrite	
JN12011	112.2	115.9	semimassive	15% SEMIMASSIVE very fine grained pyrite, 5% STRINGERS fine grained pyrite, 2% DISSEMINATED fine grained pyrite, 2% SEMIMASSIVE fine grained pyrrhotite	
JN12011	115.9	117.2	massive	40% massive fine grained pyrite, 10% semimassive medium grained pyrrhotite, 0.01% blebby fine grained chalcopyrite, 20% stringers fine grained pyrite	
JN12011	117.2	118.3	semimassive	2% blebby fine grained pyrite, 2% stringers fine grained pyrite, 1% disseminated fine grained pyrite, 1% blebby fine grained pyrrhotite	
JN12011	118.3	118.7	blebby	1% blebby fine grained pyrrhotite	
JN12011	118.7	120.1	semimassive	5% semimassive fine grained pyrite, 5% semimassive fine grained pyrrhotite, 2% stringers fine grained pyrite	
JN12011	120.1	120.7	massive	70% massive fine grained pyrite, 5% blebby fine grained pyrrhotite, 1% blebby fine grained chalcopyrite	
JN12011	120.7	121.3	semimassive	15% semimassive fine grained pyrite, 5% semimassive fine grained pyrrhotite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12011	121.3	122.6	massive	40% massive fine grained pyrite, 20% massive fine grained pyrrhotite, 2% blebby fine grained chalcopyrite	
JN12011	122.6	124.9	semimassive	0.5% blebby fine grained sphalerite, 0.01% blebby fine grained chalcopyrite, 10% semimassive fine grained pyrite, 2% stringers fine grained pyrite, 5% stringers fine grained pyrrhotite, 5% semimassive fine grained pyrrhotite, 1% stringers medium grained a	
JN12011	124.9	126	massive	80% massive fine grained pyrite, 5% massive fine grained pyrrhotite, 1% fractures fine grained arsenopyrite, 0.01% blebby fine grained chalcopyrite	
JN12011	127.8	128.3	blebby	5% disseminated fine grained pyrite, 0.5% blebby fine grained sphalerite	
JN12011	128.3	129.3	brecciated	25% massive fine grained pyrite, 5% interstitial fine grained pyrrhotite, 5% fractures medium grained pyrite	
JN12011	131	131.6	brecciated	15% other fine grained pyrite, 1% other fine grained pyrrhotite	
JN12011	131.6	133.4	massive	40% massive fine grained pyrite, 10% interstitial fine grained pyrrhotite, 2% blebby fine grained chalcopyrite	
JN12011	133.4	136	semimassive	20% semimassive very fine grained pyrite, 5% interstitial fine grained pyrrhotite, 2% massive fine grained magnetite, 0.01% blebby fine grained chalcopyrite	
JN12011	136	136.1	massive	50% massive fine grained magnetite, 5% stringers fine grained pyrite	
JN12011	136.1	140.5	semimassive	20% semimassive very fine grained pyrite, 5% interstitial fine grained pyrrhotite, 2% massive fine grained magnetite, 0.01% blebby fine grained chalcopyrite	
JN12011	140.5	140.8	fractures	5% fractures very fine grained pyrite, 0.01% fractures very fine grained pyrrhotite	
JN12011	140.8	143	stringers	5% stringers fine grained pyrite	
JN12011	143	144.2	semimassive	20% semimassive very fine grained pyrite, 5% interstitial fine grained pyrrhotite, 0.01% blebby fine grained chalcopyrite	
JN12011	144.2	146.8	stringers	4% stringers fine grained pyrite	
JN12011	146.8	156.7	massive	0.05% veined fine grained molybdenite, 0.5% disseminated very fine grained pyrite, 40% massive fine grained pyrite, 5% interstitial fine grained pyrrhotite, 1% blebby fine grained chalcopyrite, 1% fractures medium grained pyrite	
JN12011	156.7	163.5	massive	30% massive fine grained pyrite, 20% massive fine grained pyrrhotite, 5% massive fine grained magnetite, 1% blebby fine grained chalcopyrite, 0.01% blebby fine grained bismuthinite, 1% stringers fine grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12011	163.5	169.5	massive	20% massive fine grained pyrite, 20% massive fine grained pyrrhotite, 2% massive fine grained magnetite, 1% blebby fine grained chalcopyrite, 0.01% blebby fine grained bismuthinite, % grained scheelite	
JN12011	169.5	170.6	stringers	2% stringers fine grained pyrite	
JN12011	170.6	170.9	semimassive	5% semimassive very fine grained pyrite	
JN12011	170.9	172	stringers	1% stringers fine grained pyrite	
JN12011	172	172.4	massive	30% massive fine grained pyrite, 5% stringers medium grained pyrite, 0.01% blebby fine grained bismuthinite	
JN12011	172.4	172.8	semimassive	10% semimassive fine grained pyrite	
JN12011	172.8	176.9	massive	30% massive fine grained pyrite, 1% blebby fine grained chalcopyrite	
JN12011	176.9	177.5	stringers	5% stringers fine grained pyrite	
JN12011	177.5	178	massive	50% massive fine grained pyrite	
JN12011	178	181	stringers	5% stringers very fine grained pyrite	
JN12011	181	185	stringers	2% stringers very fine grained pyrite	
JN12011	185	186.3	massive	60% massive fine grained pyrite, 2% other fine grained pyrrhotite	
JN12011	186.3	187.2	semimassive	10% semimassive fine grained pyrite, 2% veined fine grained pyrite	
JN12011	187.2	200.1	sheeted veins	0.01% blebby fine grained bismuthinite, 0.01% sheeted veins fine grained pyrite, 0.01% sheeted veins fine grained chalcopyrite, 0.01% sheeted veins fine grained pyrrhotite, 0.01% sheeted veins fine grained scheelite, 0.01% sheeted veins fine grained molyb	
JN12011	200.1	202.7	sheeted veins	0.5% sheeted veins fine grained bismuthinite, 1% sheeted veins fine grained scheelite, 2% sheeted veins fine grained pyrite, 0.01% sheeted veins fine grained chalcopyrite, 0.01% sheeted veins fine grained pyrrhotite	
JN12011	202.7	209.8	sheeted veins	1% fractures fine grained pyrite, 0.5% stringers fine grained molybdenite, 0.01% sheeted veins fine grained bismuthinite, 0.5% sheeted veins fine grained scheelite, 10% bands fine grained magnetite, 3% stringers fine grained pyrite, 2% stringers fine grai	
JN12011	209.8	211	veined	1% veined fine grained pyrite, 0.01% veined fine grained bismuthinite, 0.01% blebby fine grained molybdenite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12011	211	226.5	veined	1% veined fine grained pyrite, 0.01% blebby fine grained bismuthinite, 0.5% veined fine grained scheelite	
JN12011	226.5	228	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 2% stringers fine grained pyrite, 0.01% blebby fine grained pyrrhotite, 0.5% blebby fine grained molybdenite	
JN12011	228	229.5	sheeted veins	1% sheeted veins fine grained bismuthinite, 0.01% sheeted veins fine grained other, 2% blebby fine grained pyrite, % grained , 10% bands fine grained magnetite, 1% veined fine grained bismuthinite, 0.5% veined medium grained native bismuth, 0.01% veined	
JN12011	229.5	233.1	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 1% stringers fine grained pyrite	
JN12011	233.1	235	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.5% stringers fine grained pyrite, 0.01% blebby fine grained chalcopyrite, 0.01% sheeted veins fine grained pyrrhotite	
JN12011	235	243.3	sheeted veins	1% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.01% blebby fine grained chalcopyrite, 0.01% blebby fine grained pyrrhotite	
JN12011	243.3	245.2	sheeted veins	1% sheeted veins fine grained bismuthinite, 0.01% sheeted veins fine grained other, 2% sheeted veins fine grained scheelite, 1% stringers fine grained pyrite, 0.01% sheeted veins fine grained pyrrhotite, 0.01% stringers fine grained molybdenite	
JN12011	245.2	257.8	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.5% blebby fine grained pyrite, 0.01% blebby fine grained sphalerite, 0.5% stringers fine grained molybdenite	
JN12011	257.8	267.2	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 1% blebby fine grained pyrite, 0.01% blebby fine grained pyrrhotite	
JN12011	267.2	270.9	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 1% stringers fine grained pyrite, 0.5% stringers fine grained arsenopyrite, 0.01% blebby fine grained pyrrhotite	
JN12011	270.9	275.2	sheeted veins	0.5% sheeted veins fine grained bismuthinite, 2% blebby fine grained pyrite, 1% blebby fine grained pyrrhotite, 1% brecciated very fine grained sulphides, 0.1% blebby fine grained scheelite	
JN12011	275.2	299.1	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.5% blebby fine grained pyrite, 0.01% blebby fine grained pyrrhotite	
JN12011	299.1	300	sheeted veins	1% blebby fine grained pyrite, 0.01% blebby fine grained bismuthinite, 0.01% blebby fine grained chalcopyrite	
JN12011	300	301	quartz vein	1% blebby fine grained pyrite, 0.01% blebby fine grained bismuthinite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12011	301	304.9	sheeted veins	0.5% disseminated fine grained pyrite, 0.01% sheeted veins fine grained molybdenite, 0.01% sheeted veins fine grained bismuthinite	
JN12011	304.9	305.2	sheeted veins	1% sheeted veins fine grained bismuthinite, 1% blebby fine grained pyrite	
JN12011	305.2	323.2	sheeted veins	0.01% blebby fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.01% blebby fine grained pyrrhotite	
JN12011	323.2	327.3	sheeted veins	3% stringers fine grained pyrite, 0.01% blebby fine grained pyrrhotite	
JN12011	327.3	335.6	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.01% blebby fine grained molybdenite, 0.5% blebby fine grained pyrite	
JN12011	335.6	336.6	sheeted veins	2% stringers fine grained pyrite	
JN12011	336.6	344.6	sheeted veins	0.01% sheeted veins fine grained molybdenite, 0.01% sheeted veins fine grained bismuthinite	
JN12011	344.6	347.5	sheeted veins	3% stringers fine grained pyrite	
JN12011	347.5	363.7	sheeted veins	3% stringers fine grained pyrite, 0.5% stringers fine grained pyrrhotite	
JN12012	6.6	42.6	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.5% stringers fine grained pyrite, 0.5% disseminated fine grained scheelite	
JN12012	42.6	43.3	stringers	0.5% stringers very fine grained pyrite, 0.01% stringers very fine grained sulphides	
JN12012	43.3	43.8	stringers	2% disseminated very fine grained pyrite, 2% stringers fine grained pyrite, 0.5% bands very fine grained sulphides	
JN12012	45	45.7	stringers	0.01% stringers very fine grained pyrite, 2% fractures fine grained pyrite, 0.2% stringers fine grained pyrite	
JN12012	47	54.9	sheeted veins	5% fractures fine grained pyrite, 1% blebby Arsenopyrite grained arsenopyrite, 5% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12012	54.9	55.9	other	1% stringers fine grained pyrite	
JN12012	55.9	56.7	massive	40% massive fine grained magnetite, 30% replacement fine grained pyrite	
JN12012	56.7	58	other	5% stringers very fine grained pyrite	
JN12012	58	58.6	massive	50% massive fine grained magnetite, 20% replacement fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12012	58.6	59.8	other	2% stringers very fine grained pyrite, 0.5% stringers fine grained pyrite, 0.01% disseminated fine grained molybdenite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12012	59.8	70	sheeted veins	0.01% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12012	71.2	71.5	semimassive	20% bands fine grained pyrite	
JN12012	71.5	72.1	stringers	2% stringers fine grained pyrite	
JN12012	72.1	78.7	stringers	1% stringers fine grained pyrite, 0.01% blebby fine grained pyrrhotite	
JN12012	79.9	83.3	veined	0.01% sheeted veins fine grained bismuthinite, 3% stringers fine grained pyrite, 1% stringers fine grained pyrrhotite, 0.01% blebby fine grained molybdenite, 0.01% blebby fine grained chalcopyrite	
JN12012	83.3	83.8	stringers	5% stringers fine grained pyrrhotite, 0.5% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12012	83.8	102.1	veined	0.01% sheeted veins fine grained bismuthinite, 1% stringers fine grained pyrrhotite, 3% stringers fine grained pyrite, 0.01% blebby fine grained molybdenite	
JN12012	102.1	106.1	veined	1% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.01% blebby fine grained chalcopyrite	
JN12012	106.1	108.2	veined	0.5% disseminated fine grained pyrite, 0.5% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.01% stringers fine grained pyrrhotite, 0.01% blebby fine grained molybdenite	
JN12012	108.2	109.6	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.5% stringers fine grained pyrite	
JN12012	109.6	110	disseminated	0.5% disseminated fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12012	110	112.9	sheeted veins	0.1% blebby fine grained pyrrohite, 0.1% fractures fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.5% stringers fine grained pyrite	
JN12012	112.9	120.5	fractures	3% fractures fine grained pyrite, 0.5% sheeted veins fine grained bismuthinite	
JN12012	120.5	120.8	semimassive	5% semimassive fine grained pyrite, 0.01% blebby fine grained chalcopyrite	
JN12012	122	124.7	fractures	5% blebby fine grained pyrite, 3% fractures fine grained pyrite	
JN12012	124.7	125	fractures	3% fractures fine grained pyrite	
JN12012	125	127.9	stringers	2% stringers fine grained pyrite	
JN12012	127.9	128.2	fractures	3% fractures fine grained pyrite	
JN12012	128.2	147.5	stringers	3% stringers fine grained pyrite	
JN12012	147.5	156.3	stringers	4% stringers fine grained pyrite, 0.5% stringers very fine grained sulphides	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12012	156.3	156.7	stringers	3% stringers fine grained pyrite	
JN12012	156.7	157.5	stringers	30% massive fine grained pyrite, 20% massive fine grained pyrrhotite, 5% massive fine grained magnetite, 1% blebby fine grained chalcopyrite, 0.01% blebby fine grained bismuthinite, 1% stringers fine grained pyrite	
JN12013	4.1	12.1	stringers	2% stringers fine grained pyrite, 2% stringers fine grained pyrrhotite	
JN12013	14.1	18.2	sheeted veins	0.5% sheeted veins fine grained bismuthinite, 4% stringers fine grained pyrite, 3% stringers fine grained pyrrhotite	
JN12013	21	21.3	stringers	3% stringers fine grained pyrite, 2% stringers fine grained pyrrhotite, 0.01% sheeted veins fine grained bismuthinite	
JN12013	23.8	26.2	semimassive	5% semimassive fine grained pyrite, 2% stringers fine grained pyrrhotite, 0.5% blebby fine grained molybdenite	
JN12013	30	30.8	stringers	2% stringers fine grained pyrrhotite	
JN12013	30.8	33	stringers	2% fractures coarse grained chalcopyrite, 5% semimassive fine grained pyrite, 2% stringers fine grained pyrrhotite, 0.01% blebby fine grained bismuthinite, 0.01% blebby fine grained molybdenite	
JN12013	33	45.8	stringers	5% blebby FINE grained pyrrohite, 2% fractures FINE grained pyrite, 0.5% stringers fine grained pyrite	
JN12013	45.8	46.9	disseminated	0.5% blebby medium grained scheelite, 1% VEINLETS fine grained pyrite	
JN12013	46.9	60.1	stringers	0.5% stringers fine grained pyrite, 0.5% blebby medium grained scheelite	
JN12013	60.1	61.5	stringers	5% brecciated fine-coarse grained arsenopyrite, 3% brecciated fine-coarse grained pyrite, 0.05% disseminated fine grained chalcopyrite, 0.05% trace fine grained pyrite, 0.05% trace fine grained pyrrohite, 10% stringers fine grained pyrite	
JN12013	61.5	61.9	stringers	0.01% stringers fine grained pyrite	
JN12013	61.9	65.7	stringers	3% stringers fine grained pyrite, 2% stringers fine grained pyrrhotite	
JN12013	65.7	70.9	fractures	0.5% fractures fine grained pyrite	
JN12013	70.9	88.7	disseminated	1% disseminated fine grained pyrite	
JN12013	88.7	90.8	fractures	0.5% stringers medium grained pyrite, 0.5% stringers fine grained pyrrhotite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12013	90.8	92	disseminated	0.5% disseminated fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.01% blebby fine grained chalcopyrite, 0.4% blebby fine grained pyrrhotite	
JN12013	92	102	sheeted veins	0.01% sheeted veins medium grained bismuth, 0.1% sheeted veins fine grained bismuthinite, 0.5% fractures medium grained bismuthinite, 0.5% fractures medium grained pyrite, 0.01% blebby medium grained molybdenite	
JN12013	102	106.6	sheeted veins	0.1% disseminated fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.5% fractures fine grained magnetite, 2% fractures fine grained limonite, 2% fractures fine grained goethite	
JN12013	106.6	115.7	sheeted veins	0.01% sheeted veins fine grained molybdenite	
JN12013	115.7	117.3	stringers	0.5% stringers fine grained pyrite, 0.01% blebby fine grained arsenopyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12013	117.3	149	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.01% stringers fine grained pyrrhotite, 0.01% blebby fine grained chalcopyrite, 0.5% veined fine grained bismuthinite, 0.01% blebby fine grained molybdenite, 0.5% veined very fine grained pyrite	
JN12013	149	150	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.05% fractures very fine grained sulphides	
JN12013	150	161.3	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 10% fractures fine grained pyrite, 0.01% fractures fine grained scheelite	
JN12013	161.3	162	sheeted veins	2% stringers medium grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12014	10	10.4	stringers	5% stringers fine grained pyrrhotite	
JN12014	10.4	10.8	stockwork	10% stockwork fine grained pyrrhotite	
JN12014	10.8	12.1	stringers	0.2% brecciated fine-medium grained arsenopyrite, 0.4% brecciated fine grained pyrite, 2% stringers fine grained pyrrhotite	
JN12014	17.4	22.5	stringers	2% stringers fine grained pyrrhotite	
JN12014	28.5	28.9	stockwork	0.5% fractures fine grained pyrite, 0.01% trace fine grained arsenopyrite, 15% semimassive fine grained pyrrhotite	
JN12014	30.4	31.5	disseminated	0.01% disseminated fine grained scheelite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12014	41.5	42.9	fractures	1% fractures fine grained pyrite, 0.5% fractures very fine grained sulphides, 0.5% fractures medium grained pyrite	
JN12014	42.9	43.9	semimassive	3% stringers fine grained pyrite, 2% semimassive fine grained arsenopyrite, 1% semimassive very fine grained tetrahedrite, 0.5% semimassive fine grained pyrrhotite	
JN12014	43.9	45	fractures	0.5% veined very fine grained pyrite, 0.01% fractures very fine grained sulphides	
JN12014	49.3	50.7	stringers	0.5% stringers fine grained sulphides, 0.05% stringers fine grained pyrrhotite	
JN12014	51.8	52.9	semimassive	3% semimassive medium grained pyrite, 2% semimassive fine grained pyrrhotite, 0.5% semimassive fine grained sulphides	
JN12014	62.9	63.5	stringers	0.5% stringers fine grained pyrite, 1% stringers fine grained pyrrhotite	
JN12014	63.5	67.3	sheeted veins	0.01% sheeted veins fine grained bismuthinite, 0.01% blebby fine grained molybdenite, 1% stringers fine grained pyrite	
JN12014	67.3	80.2	stockwork	0.5% stockwork fine grained molybdenite, 0.01% sheeted veins fine grained bismuthinite	
JN12014	80.2	80.5	sheeted veins	0.01% blebby medium grained bismuth, 0.01% sheeted veins fine grained bismuthinite	
JN12014	80.5	97.3	sheeted veins	0.01% sheeted veins fine grained molybdenite, 0.5% stringers fine grained pyrite	
JN12014	97.3	99.5	stringers	1% stringers fine grained pyrite	
JN12014	99.5	117.3	sheeted veins	0.01% sheeted veins fine grained molybdenite	
JN12014	117.3	117.6	veined	0.01% sheeted veins fine grained bismuthinite, 0.01% stringers fine grained pyrrhotite, 0.01% blebby fine grained chalcopyrite, 0.5% veined fine grained bismuthinite, 0.01% blebby fine grained molybdenite, 0.5% veined very fine grained pyrite	
JN12014	117.6	125	fractures	1% disseminated fine grained pyrite, 0.5% fractures fine grained pyrite, 0.2% veined very fine grained pyrite, 0.01% fractures very fine grained sulphides, 0.5% fractures fine grained pyrite, 0.2% veined very fine grained pyrite, 0.01% fractures very fine	
JN12014	117.6	128.8	fractures	1% disseminated fine grained pyrite, 0.5% fractures fine grained pyrite, 0.2% veined very fine grained pyrite, 0.01% fractures very fine grained sulphides, 0.5% fractures fine grained pyrite, 0.2% veined very fine grained pyrite, 0.01% fractures very fine	
JN12014	128.8	129.1	fractures	2% fractures very fine grained sulphides, 1% fractures fine grained pyrite	
JN12014	129.1	153.6	sheeted veins	0.5% blebby fine grained pyrrhotite, 0.01% blebby fine grained molybdenite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12014	154.7	155.4	stringers	0.01% sheeted veins fine grained bismuthinite, 1% blebby fine grained pyrite, 3% semimassive very fine grained pyrite	
JN12014	171.6	176	fractures	3% fractures fine grained pyrite, 1% stringers very fine grained pyrite, 0.5% fractures very fine grained sulphides	
JN12014	176	182.5	fractures	2% fractures fine grained pyrite, 0.5% fractures fine grained pyrite, 0.5% veined very fine grained sulphides	
JN12014	182.5	184.4	fractures	0.5% fractures very fine grained pyrite	
JN12014	184.4	185	disseminated	5% disseminated medium grained pyrite, 3% disseminated medium grained arsenopyrite	
JN12014	187.2	187.5	blebby	0.01% blebby fine grained bismuthinite, 0.01% sheeted veins fine grained pyrite, 0.01% sheeted veins fine grained chalcopyrite, 0.01% sheeted veins fine grained pyrrhotite, 0.01% sheeted veins fine grained scheelite, 0.01% sheeted veins fine grained molyb	
JN12014	187.5	190.2	fractures	3% fractures fine grained pyrite	
JN12014	190.2	190.9	sheeted veins	0.3% sheeted veins very fine grained bismuthinite	
JN12014	190.9	194.6	sheeted veins	0.01% sheeted veins fine grained bismuthinite	
JN12014	194.6	194.9	veined	0.5% fractures fine grained bismuthinite, 1% brecciated very fine grained pyrite, 0.5% blebby medium grained scheelite	
JN12014	194.9	196.6	fractures	3% stringers fine grained pyrite, 0.1% blebby medium grained scheelite	
JN12014	196.6	196.9	veined	0.5% fractures fine grained bismuthinite, 0.5% blebby medium grained scheelite	
JN12014	196.9	213.6	stringers	2% stringers fine grained pyrite, 0.5% stringers very fine grained arsenopyrite	
JN12014	213.6	213.7	sheeted veins	5% disseminated fine grained pyrite, 0.01% disseminated fine grained molybdenite, 0.1% disseminated fine-medium grained bismuthinite, 0.01% blebby fine grained gold, 0.5% sheeted veins fine grained molybdenite	
JN12014	213.7	217	fractures	0.5% fractures very fine grained sulphides, 0.01% sheeted veins fine grained molybdenite	
JN12014	217	217.4	stringers	0.1% disseminated fine-medium grained sphalerite, 0.1% disseminated fine grained pyrite, 0.1% disseminated fine grained arsenopyrite, 3% stringers fine grained pyrite, 3% fractures fine grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12014	217.4	224.2	semimassive	0.01% disseminated fine grained molybdenite, 10% semimassive fine grained pyrite, 0.01% stringers fine grained bismuthinite, 0.01% stringers fine grained sphalerite, 0.01% stringers fine grained arsenopyrite	
JN12014	224.2	224.5	fractures	0.5% fractures very fine grained pyrite, 0.01% fractures very fine grained sulphides, 2% fractures very fine grained sulphides	
JN12014	224.5	231.8	fractures	0.5% fractures fine grained pyrite	
JN12014	247.6	258.9	blebby	1% blebby fine grained pyrite	
JN12014	259.9	270.8	blebby	0.5% blebby fine grained pyrite, 0.01% blebby fine grained arsenopyrite, 0.01% blebby fine grained chalcopyrite, 0.5% blebby fine grained pyrite, 0.01% blebby fine grained arsenopyrite, 0.01% blebby fine grained chalcopyrite	
JN12014	259.9	264	blebby	0.5% blebby fine grained pyrite, 0.01% blebby fine grained arsenopyrite, 0.01% blebby fine grained chalcopyrite, 0.5% blebby fine grained pyrite, 0.01% blebby fine grained arsenopyrite, 0.01% blebby fine grained chalcopyrite	
JN12014	270.8	278.1	fractures	0.5% fractures fine grained pyrite	
JN12014	278.1	278.4	veined	0.5% stringers fine grained pyrite, 0.3% stringers fine grained arsenopyrite, 0.01% veined very fine grained bismuthinite	
JN12014	278.4	278.6	semimassive	5% semimassive fine grained pyrite	
JN12014	278.6	297	fractures	0.5% stringers fine grained pyrite	
JN12015	3.3	21	veined	5% veinlets fine-medium grained pyrite, 0.05% disseminated fine-medium grained arsenopyrite	1
JN12016	7.1	13.7	fractures	3% fractures fine-medium grained pyrite	
JN12016	13.7	14	veined	0.01% veined fine grained bismuthinite, 0.5% stringers fine grained pyrite	
JN12016	14	26.2	fractures	2% blebby Coarse grained pyrrohite, 0.05% blebby Fine grained chalcopyrite, 0.5% fractures fine grained pyrite	
JN12016	26.2	26.6	stringers	2% stringers medium-coarse grained pyrite, 2% stringers fine grained sphalerite	
JN12016	50.6	53.8	sheeted veins	0.1% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12016	61.2	62.6	fractures	2% stringers fine grained pyrite, 1% blebby fine grained pyrrhotite	
JN12016	62.6	66	veined	2% blebby medium grained pyrrhotite, 2% fractures medium grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12016	78.4	86.1	veined	0.01% veined fine grained molybdenite, 0.1% disseminated fine grained pyrite, 0.01% veined very fine grained bismuthinite	
JN12016	86.1	86.4	semimassive	10% disseminated very fine grained pyrite	
JN12016	86.4	89.5	veined	1% veined fine grained pyrite, 0.01% trace fine grained bismuthinite	
JN12016	89.5	91.8	semimassive	10% semimassive fine-medium grained pyrite, 0.05% disseminated fine-medium grained iron oxide, 0.01% trace fine grained molybdenite, 10% fractures very fine grained graphite, 3% bands fine grained pyrite	
JN12016	94.8	95.6	semimassive	20% veined fine grained limonite, 0.5% encrusting fine grained hematite	
JN12016	95.6	104.5	trace	0.1% veined fine grained pyrite, 0.05% veined fine grained molybdenite	
JN12016	98.1	94.8	trace	0.05% trace fine grained pyrite	
JN12016	104.5	107.8	veined	2% blebby fine-coarse grained pyrtie, 1% blebby fine-medium grained pyrirhotite, 0.1% disseminated fine grained bismuthinite, 0.1% disseminated fine grained chalcopyrite, 0.01% trace very fine grained gold	
JN12016	110.3	110.4	semimassive	10% semimassive fine-coarse grained pyrite, 1% disseminated fine-medium grained pyrrhotite, 0.1% disseminated fine grained chalcopyrite	
JN12016	110.9	112.6	veined	1% disseminated fine-coarse grained pyrite, 0.01% disseminated trace grained molybdenite, 1% disseminated fine-coarse grained pyrite, 0.01% disseminated trace grained molybdenite	
JN12016	110.9	112.4	veined	1% disseminated fine-coarse grained pyrite, 0.01% disseminated trace grained molybdenite, 1% disseminated fine-coarse grained pyrite, 0.01% disseminated trace grained molybdenite	
JN12016	113.26	113.5	fractures	0.5% blebby fine grained sphalerite, 0.5% stringers fine grained pyrite, 0.01% blebby fine grained chalcopyrite	
JN12016	113.5	118.4	veined	0.01% sheeted veins fine grained bismuthinite, 0.01% sheeted veins fine grained molybdenite, 0.01% fractures fine grained chalcopyrite, 0.01% fractures fine grained pyrrhotite, 1% stringers fine grained pyrite	
JN12016	118.4	132	sheeted veins	0.5% sheeted veins fine grained molybdenite	
JN12016	132.5	133.2	fractures	2% fractures fine grained pyrite	
JN12016	133.2	133.6	sheeted veins	0.5% sheeted veins fine grained bismuthinite, 0.1% fractures fine grained molybdenite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12016	133.6	137.6	fractures	5% fractures fine grained pyrite, 0.5% fractures fine grained pyrrhotite, 0.01% sheeted veins fine grained molybdenite	
JN12016	142.7	143.8	fractures	5% fractures fine grained pyrite	
JN12016	145.5	143.8	brecciated	3% brecciated fine grained pyrite	
JN12016	150	151.6	fractures	0.01% sheeted veins fine grained bismuthinite, 10% fractures fine grained pyrite, 0.01% fractures fine grained scheelite	
JN12016	152.8	153.7	fractures	0.5% disseminated fine grained pyrite, 0.1% fractures fine grained bismuthinite	
JN12016	160.7	161.6	blebby	3% blebby fine grained pyrite, 0.5% blebby fine grained chalcopyrite, 0.5% blebby fine grained tetrahedrite, 1% blebby fine grained arsenopyrite	
JN12016	162	162.5	fractures	0.01% fractures fine grained tetrahedrite	
JN12016	174.4	183.5	brecciated	5% brecciated very fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.01% sheeted veins fine grained molybdenite, 5% fractures fine grained pyrite	
JN12016	183.5	197.6	stringers	2% stringers fine grained pyrite, 1% stringers fine grained pyrrhotite, 0.5% blebby fine grained sphalerite	
JN12016	197.6	204	stringers	5% fractures fine grained pyrite, 0.5% fractures fine grained sphalerite, % grained scheelite, 0.1% fractures fine grained pyrite, 0.5% fractures very fine grained sulphides	
JN12016	204	234.9	fractures	2% stringers fine grained pyrite	
JN12016	234.9	235.8	fractures	0.1% disseminated fine-medium grained pyrite, 0.01% trace fine grained molybdenite, 2% fractures fine-coarse grained pyrite, 0.05% fractures fine-medium grained molybdenite	
JN12016	235.8	272.1	fractures	0.5% fractures fine grained pyrite, 0.01% fractures fine grained arsenopyrite	
JN12016	272.1	273.8	veined	0.1% disseminated fine grained bismuthinite, 1% disseminated fine grained pyrite, 0.01% blebby fine grained jamesonite, 0.05% disseminated fine grained arsenopyrite	
JN12016	273.8	289.1	sheeted veins	0.01% stringers fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite	
JN12016	289.1	293.9	veined	0.1% stringers fine grained molybdenite, 0.5% stringers fine grained pyrite	
JN12016	293.9	300	veined	0.01% veined fine grained pyrite, 0.01% veined fine grained pyrrhotite	
JN12017	35.8	36.2	stringers	1% stringers fine grained pyrite, 0.5% fractures fine-medium grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12017	38.5	38.7	stringers	3% blebby fine grained pyrite, 0.1% disseminated fine grained arsenopyrite, 2% stringers fine grained pyrite, 0.2% fractures fine grained pyrite	
JN12017	45	45.5	fractures	0.01% stringers very fine grained pyrite, 2% fractures fine grained pyrite, 0.2% stringers fine grained pyrite	
JN12017	48.9	58.6	stringers	0.5% stringers fine grained pyrite, 0.5% stringers very fine grained pyrrhotite	
JN12017	58.6	71	stringers	2% stringers very fine grained pyrite, 0.5% stringers fine grained pyrite, 0.01% disseminated fine grained molybdenite	
JN12017	71	77.4	fractures	0.5% fractures fine grained pyrite, 0.1% stringers fine grained pyrite, 0.01% disseminated fine grained pyrite, 0.01% stringers very fine grained chalcopyrite, 0.01% fractures very fine grained sulphides	
JN12017	79.4	88.5	stringers	1% stringers fine grained pyrite	
JN12017	88.5	91.1	stringers	1% veinlets fine grained pyrite, 3% replacement fine grained pyrite	
JN12017	94	94.5	stringers	1% veined fine grained pyrite, 3% replacement fine grained pyrite	
JN12017	95.5	96	stringers	1% stringers fine grained pyrite, 0.5% stringers fine grained pyrrhotite	
JN12017	122.7	123	stringers	0.5% stringers fine grained pyrite	
JN12017	130.4	137	stringers	0.01% stringers fine grained pyrite	
JN12017	139.5	146.6	trace	0.01% trace very fine grained pyrite	
JN12018	18.6	27.5	BLEBBY	0.5% BLEBBY fine grained pyrite	1
JN12018	27.5	31.3	STRINGERS	1% STRINGERS very fine grained pyrite	
JN12018	41.1	45.8	STRINGERS	0.01% STRINGERS very fine grained pyrite	1
JN12018	45.8	47.9	VEINLETS	0.5% blebby medium grained scheelite, 1% VEINLETS fine grained pyrite	
JN12018	47.9	50.5	DISSEMINATED	0.01% DISSEMINATED medium grained pyrite, 0.5% STRINGERS fine grained pyrite	
JN12018	51.5	51.9	STRINGERS	0.5% STRINGERS very fine grained pyrite	
JN12018	51.9	66	stringers	3% stringers fine grained pyrite, 1% disseminated medium grained pyrrhotite, 1% disseminated fine grained pyrite, 0.01% blebby medium grained molybdenite	
JN12018	66	66.7	stringers	2% stringers fine grained pyrite, 1% blebby medium grained molybdenite, 0.05% semimassive very fine grained sulphides	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12018	66.7	67	semimassive	5% semimassive fine grained pyrite, 3% semimassive fine grained arsenopyrite, 1% stringers fine grained pyrrhotite, 0.01% blebby fine grained bismuthinite	
JN12018	67	70.2	stringers	2% stringers fine grained pyrite, 1% blebby medium grained molybdenite, 0.05% semimassive very fine grained sulphides	
JN12018	70.2	70.8	brecciated	0.5% blebby fine grained pyrite, 0.5% blebby medium grained molybdenite	
JN12018	70.8	73.5	stringers	1% stringers fine grained pyrite	
JN12018	73.5	74.4	semimassive	1% stringers fine grained pyrite, 1% semimassive very coarse grained sulphides, 0.5% blebby medium grained molybdenite	
JN12018	74.4	76.8	disseminated	0.5% blebby medium grained molybdenite	
JN12018	76.8	81.1	fractures	0.5% fractures fine grained pyrite	
JN12018	81.1	83.9	fractures	1% fractures fine grained pyrite	
JN12018	83.9	84.1	stringers	3% stringers fine grained pyrite, 1% fractures fine grained pyrite	
JN12018	83.9	88.6	fractures	3% stringers fine grained pyrite, 1% fractures fine grained pyrite	
JN12018	88.6	108.8	stringers	0.5% stringers very fine grained pyrrhotite, 0.1% stringers very fine grained pyrite	
JN12018	123	126.2	interstitial	0.5% interstitial fine grained pyrite	
JN12018	126.2	130.4	interstitial	5% interstitial fine grained pyrite, 1% fractures very fine grained sulphides	
JN12018	148.5	148.7	blebby	0.2% blebby fine grained pyrrhotite, 0.1% blebby fine grained pyrite, 0.01% blebby fine grained chalcopyrite	
JN12018	155	157.5	veined	0.01% veined fine grained pyrrhotite, 0.01% veined fine grained bismuthinite	
JN12018	157.5	167.4	blebby	0.01% blebby fine grained pyrite, 0.01% blebby fine grained pyrrhotite	
JN12018	170.2	170.9	stringers	0.1% stringers very fine grained sulphides	
JN12018	172.1	176	fractures	1% fractures fine grained pyrite, 0.01% fractures very fine grained sulphides	
JN12018	176	187.1	veinlets	2% fractures fine grained pyrite, 0.5% fractures fine grained pyrite, 0.5% veined very fine grained sulphides	
JN12018	187.1	194.1	fractures	0.5% fractures fine grained pyrite, 0.01% veined fine grained pyrrhotite	
JN12018	194.1	195	veinlets	0.5% stringers fine grained pyrite, 0.01% stringers fine grained pyrrhotite	
JN12018	195	197	fractures	0.1% fractures fine grained pyrite, 0.5% fractures very fine grained sulphides	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12018	197	197.6	semimassive	1% disseminated fine grained pyrrohite, 0.05% disseminated fine grained chalcopyrite, 10% replacement fine grained magnetite, 20% fractures fine-medium grained pyrite, 5% semimassive very fine grained sulphides	
JN12018	197.6	201.5	fractures	5% fractures fine grained pyrite, 0.5% fractures fine grained sphalerite, % grained scheelite, 0.1% fractures fine grained pyrite, 0.5% fractures very fine grained sulphides	
JN12018	201.5	202	semimassive	20% semimassive fine grained magnetite, 1% disseminated fine grained pyrite, 5% stringers fine grained pyrite, 2% stringers very fine grained sulphides	
JN12018	202	202.7	bands	2% stringers fine grained pyrite, 5% bands very fine grained sulphides	
JN12018	202.7	203	bands	1% fractures fine grained pyrite, 0.5% stringers fine grained molybdenite, 0.01% sheeted veins fine grained bismuthinite, 0.5% sheeted veins fine grained scheelite, 10% bands fine grained magnetite, 3% stringers fine grained pyrite, 2% stringers fine grai	
JN12018	203	204.9	bands	2% fractures fine grained pyrite, 2% bands very fine grained sulphides, 1% stringers fine grained pyrite	
JN12018	204.9	209.3	bands	2% veined fine-medium grained pyrite, 2% veined fine grained pyrrohite, 0.05% disseminated fine-medium grained molybdenite, 15% bands fine grained magnetite, 5% stringers fine grained pyrite, 3% stringers fine grained pyrrhotite, 0.5% blebby fine grained	
JN12018	209.3	209.9	stringers	3% stringers fine grained magnetite, 2% stringers fine grained pyrite, 0.5% stringers fine grained pyrrhotite, 1% fractures very fine grained sulphides	
JN12018	209.9	210.6	bands	30% massive fine grained magnetite, 2% stringers fine grained pyrite, 3% stringers fine grained pyrrhotite, 2% fractures very fine grained sulphides	
JN12018	210.6	211.7	stringers	7% sheeted veins fine grained pyrrhotite, 3% bands fine grained magnetite, 1% stringers fine grained sulphides	
JN12018	211.7	215.8	stringers	2% stringers fine grained pyrrhotite, 1% stringers very fine grained sulphides	
JN12018	215.8	219.6	semimassive	15% bands fine grained pyrrhotite, 10% fractures fine-medium grained pyrite, 5% bands fine grained magnetite	
JN12018	219.6	222.3	bands	3% bands fine grained magnetite, 1% replacement fine grained hematite, 2% stringers fine grained pyrite	
JN12018	222.3	223.2	fractures	0.5% fractures very fine grained sulphides, 0.5% fractures fine grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12018	223.2	223.9	fractures	1% fractures fine grained pyrite, 0.5% fractures very fine grained sulphides	
JN12018	223.9	224.2	semimassive	15% semimassive fine grained pyrite, 0.01% fractures fine grained chalcopyrite, 0.01% fractures very fine grained bismuthinite	
JN12018	224.2	225.3	fractures	0.5% fractures very fine grained pyrite, 0.01% fractures very fine grained sulphides, 2% fractures very fine grained sulphides	
JN12018	225.3	227.1	fractures	5% bands fine grained magnetite, 2% bands fine grained hematite	2
JN12018	227.1	228	semimassive	20% semimassive fine grained magnetite, 5% replacement fine grained hematite, 2% fractures fine grained pyrite	
JN12018	228	228.4	veined	1% sheeted veins fine grained bismuthinite, 0.01% sheeted veins fine grained other, 2% blebby fine grained pyrite, % grained , 10% bands fine grained magnetite, 1% veined fine grained bismuthinite, 0.5% veined medium grained native bismuth, 0.01% veined	
JN12018	228.4	230	veined	2% fractures fine grained pyrite, 1% blebby fine grained pyrrohite, 3% stringers fine grained pyrite, 2% bands very fine grained sulphides, 0.01% fractures fine grained bismuthinite	
JN12018	230	231	stringers	10% semimassive fine grained pyrite, 3% blebby fine grained chalcopyrite, 5% bands fine grained magnetite, 0.5% blebby fine grained molybdenite	
JN12018	231	244.7	stringers	5% stringers fine grained pyrite, 0.5% blebby fine grained chalcopyrite, 1% bands fine grained magnetite	
JN12018	244.7	249.9	bands	8% bands fine grained magnetite	
JN12018	249.9	254	veined	0.01% veined fine grained scheelite, 0.5% blebby fine grained molybdenite, 0.01% blebby fine grained chalcopyrite	
JN12018	254	254.1	semimassive	7% bands medium grained arsenopyrite, 3% bands fine grained pyrite	
JN12018	254.1	255.9	stringers	3% stringers fine grained pyrite	
JN12018	255.9	256.2	semimassive	10% semimassive fine grained pyrite	
JN12018	256.2	256.5	stringers	2% stringers fine grained pyrite	
JN12018	256.5	257.7	stringers	5% stringers fine grained pyrite, 5% stringers fine grained arsenopyrite, 1% fractures very fine grained bismuthinite, 0.01% blebby fine grained chalcopyrite	
JN12018	257.7	260	fractures	1% fractures very fine grained sulphides	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12018	260	262.6	stringers	0.5% stringers fine grained pyrite	
JN12018	262.6	264.9	veined	0.5% stringers fine grained pyrite, 0.1% fractures fine grained bismuthinite, 0.01% blebby fine grained chalcopyrite	
JN12018	264.9	265.8	veined	0.01% stringers fine grained pyrite, 0.01% fractures fine grained bismuthinite	
JN12018	265.8	267.9	veined	0.1% stringers fine grained pyrite, 0.01% fractures very fine grained native bismuth	
JN12018	267.9	269.5	veined	10% stringers fine grained pyrite, 0.5% fractures very fine grained bismuthinite, 0.5% stringers fine grained chalcopyrite, 0.1% blebby fine-medium grained molybdenite	
JN12018	269.5	276.6	semimassive	15% semimassive fine grained magnetite, 5% semimassive fine grained pyrite, 3% stringers fine grained pyrite, 0.5% blebby fine-medium grained molybdenite, 0.5% blebby fine grained chalcopyrite	
JN12018	276.6	281	bands	5% bands fine grained magnetite, 1% stringers fine grained pyrrhotite, 0.5% stringers fine grained chalcopyrite, 0.5% stringers fine grained pyrite	
JN12018	281	284.5	stringers	0.01% stringers fine grained molybdenite, 1% stringers fine grained pyrite	
JN12018	284.5	286.4	stringers	1% stringers fine grained pyrite, 0.5% stringers fine grained molybdenite	
JN12018	286.4	304.3	fractures	1% fractures fine grained pyrite, 2% interstitial fine grained pyrite	
JN12018	304.3	304.7	veined	1% fractures very fine grained pyrite	
JN12018	304.7	312	veined	1% veined fine grained pyrite, 0.5% veined fine grained pyrrhotite, 0.01% fractures fine grained bismuthinite	
JN12019	39.5	44.4	stringers	5% veined fine grained limonite, 1% stringers fine grained pyrite	
JN12019	44.4	50.5	interstitial	0.2% veined fine-medium grained arsenopyrite, 0.5% veined fine-medium grained pyrite, 0.05% veined fine grained sphalerite, 7% interstitial fine grained pyrite, 3% interstitial fine grained limonite	
JN12019	50.5	70.6	veined	0.5% veined fine-medium grained arsenopyrite, 0.3% veined fine grained pyrite, 2% veined fine grained pyrite, 1% blebby fine grained molybdenite, 0.01% veined fine grained chalcopyrite	
JN12019	70.6	71.4	fractures	5% fractures fine grained limonite, 0.5% stringers fine grained pyrite	
JN12019	71.4	72	stringers	10% stringers fine grained pyrite, 1% fractures fine grained pyrite	
JN12019	72	74	fractures	10% fractures fine grained limonite, 2% stringers fine grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12019	74	74.2	stringers	0.5% blebby fine grained pyrite, 0.5% veined fine grained pyrite, 0.2% disseminated fine grained pyrite, 3% stringers medium grained specularite, 2% stringers fine grained pyrite, 10% fractures fine grained limonite, 1% fractures fine grained goethite	
JN12019	74.2	75	fractures	10% fractures fine grained limonite, 5% fractures fine grained goethite, 2% blebby fine grained pyrite	
JN12019	75	77.5	fractures	5% fractures fine grained limonite, 2% fractures fine grained pyrite	
JN12019	77.5	85.7	bands	15% stringers fine grained pyrite, 5% fractures very fine grained graphite	
JN12019	85.7	87.5	bands	0.1% blebby fine grained pyrite, 0.5% stringers fine grained pyrite, 0.01% fractures very fine grained graphite	
JN12019	87.5	89.5	bands	3% fractures very fine grained graphite, 3% fractures fine grained pyrite	
JN12019	89.5	91	semimassive	10% semimassive fine-medium grained pyrite, 0.05% disseminated fine-medium grained iron oxide, 0.01% trace fine grained molybdenite, 10% fractures very fine grained graphite, 3% bands fine grained pyrite	
JN12019	91	92.4	fractures	0.5% fractures fine grained pyrite, 0.5% fractures very fine grained graphite	
JN12019	92.4	93	semimassive	10% fractures very fine grained graphite, 5% disseminated fine grained pyrite	
JN12019	93	93.1	semimassive	0.1% fractures fine grained pyrite, 20% massive fine grained pyrite, 5% blebby very fine grained magnetite, 0.01% blebby fine grained chalcopyrite	
JN12019	93.1	95.4	semimassive	10% fractures very fine grained graphite, 7% disseminated fine grained pyrite	
JN12019	95.4	96	fractures	3% stringers fine grained pyrite, 3% fractures fine grained limonite	
JN12019	96	96.5	bands	15% blebby medium grained magnetite, 5% bands fine grained limonite	
JN12019	96.5	97.4	bands	1% fractures very fine grained hematite, 10% bands fine grained limonite, 0.5% disseminated fine grained pyrite	
JN12019	97.4	98	bands	10% blebby medium grained magnetite, 2% bands very fine grained hematite, 3% blebby fine grained goethite	
JN12019	98	98.8	bands	3% disseminated fine grained pyrite, 1% bands very fine grained sulphides	
JN12019	102	103.2	fractures	0.1% disseminated fine grained pyrite, 0.01% sheeted veins fine grained bismuthinite, 0.5% fractures fine grained magnetite, 2% fractures fine grained limonite, 2% fractures fine grained goethite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12019	103.2	103.5	bands	0.5% disseminated fine grained pyrite, 10% bands fine grained magnetite, 1% fractures fine grained limonite	
JN12019	103.5	105.1	disseminated	2% disseminated fine grained pyrite	
JN12019	105.1	110.5	bands	2% bands fine grained pyrite, 0.5% fractures very fine grained sulphides, 0.5% bands very fine grained hematite, 3% bands very fine grained limonite, 0.01% blebby fine grained molybdenite	
JN12019	112	112.5	bands	0.5% disseminated fine grained pyrite, 5% fractures fine grained pyrite, 2% bands very fine grained sulphides	
JN12019	114.5	117.5	fractures	1% fractures very fine grained sulphides	
JN12019	117.5	118	fractures	3% fractures very fine grained sulphides, 2% stringers fine grained pyrite	
JN12019	124	124.1	bands	3% bands very fine grained sulphides, 5% fractures fine grained pyrite	
JN12019	125.9	135	fractures	0.01% fractures very fine grained sulphides, 0.5% veined fine grained pyrite	
JN12019	135	135.6	veined	1% veined fine grained pyrite	
JN12019	135.6	135.9	disseminated	5% disseminated fine grained pyrite	
JN12019	135.9	136.3	massive	80% massive fine grained pyrite, 5% fractures fine grained pyrite	
JN12019	136.3	136.5	disseminated	5% disseminated fine grained pyrite	
JN12019	136.5	137.5	fractures	0.5% fractures fine grained pyrite, 1% interstitial fine grained limonite, 2% fractures very fine grained goethite, 0.5% replacement fine grained hematite	
JN12019	137.5	138.2	disseminated	0.2% disseminated fine-medium grained pyrite, 10% disseminated fine grained pyrite, 0.01% veined fine grained bismuthinite	
JN12019	138.2	140.1	disseminated	2% disseminated fine grained pyrite, 0.01% veined fine grained bismuthinite	
JN12019	140.1	141.8	semimassive	10% semimassive fine grained pyrite, 2% fractures fine grained pyrite	
JN12019	141.8	146	veined	2% veined fine grained pyrite	
JN12019	146	147.6	veined	1% fractures fine grained pyrite, 0.5% disseminated fine grained molybdenite, 0.01% veined fine grained pyrrhotite, 0.5% veined fine grained pyrite	
JN12019	147.6	148.3	bands	2% bands fine grained pyrite	
JN12019	148.3	148.8	semimassive	10% semimassive fine grained pyrite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12019	148.8	149.4	fractures	0.5% fractures fine grained pyrite	
JN12019	149.4	156	veined	0.01% veined fine grained pyrrhotite, 0.5% veined fine grained pyrite	
JN12019	158	158.6	fractures	2% fractures fine grained pyrite	
JN12019	158.6	160	massive	0.1% disseminated fine grained pyrite, 0.01% veined fine grained bismuthinite, 40% massive fine grained pyrite, 10% bands fine grained pyrrhotite, 1% bands fine grained arsenopyrite, 0.5% blebby fine grained chalcopyrite, 0.5% blebby medium grained scheel	
JN12019	160	162.8	fractures	5% fractures fine grained pyrite	
JN12019	162.8	163.4	semimassive	10% semimassive fine grained pyrite, 5% semimassive fine grained pyrrhotite	
JN12019	163.4	164.4	fractures	2% fractures fine grained pyrite	
JN12019	175.5	179.9	massive	60% massive fine grained pyrite, 5% fractures medium grained pyrite, 5% interstitial fine grained pyrrhotite, 2% interstitial fine grained arsenopyrite	
JN12019	179.9	184.1	veined	5% stringers fine grained pyrrhotite, 0.5% bands fine grained chalcopyrite, 0.01% stringers fine grained sphalerite, 0.5% stringers fine grained arsenopyrite, 0.01% blebby fine grained scheelite	
JN12019	184.1	190.6	fractures	0.05% blebby medium grained scheelite, 0.01% fractures fine grained hematite, 0.05% fractures fine grained pyrrhotite, 5% bands fine-medium grained pyrite	
JN12019	190.6	192.2	veined	3% bands fine-coarse grained pyrrhotite, 1% interstitial fine grained chalcopyrite, 0.05% disseminated fine grained scheelite	
JN12019	192.2	192.5	veined	2% veined fine-coarse grained pyrrhotite, 1% veined fine grained pyrite, 0.1% veined fine grained chalcopyrite, 0.05% veined fine grained sphalerite, 0.02% veined fine grained bismuthinite, 0.01% veined fine grained bismuth, 0.01% veined fine grained sche	
JN12019	192.8	193.2	fracture fill	5% fractures fine-medium grained pyrite, 1% fractures fine grained pyrrhotite	
JN12019	194.2	194.8	veined	5% veined fine grained pyrite, 2% veined fine grained pyrrhotite, 0.5% veined fine grained sphalerite, 0.05% veined fine grained chalcopyrite, 2% veined fine grained arsenopyrite, 0.05% veined fine grained bismuthinite, 0.01% veined fine grained bismuth,	
JN12019	194.8	197.8	interstitial	3% interstitial fine grained pyrite, 2% bands fine grained pyrrhotite, 0.1% disseminated fine grained scheelite	

DDH ID	From(m)	To(m)	Min Type	Min Desc	Oxidation
JN12019	197.8	198.3	disseminated	40% replacement fine-coarse grained magnetite, 0.5% fractures fine-medium grained pyrrohite, 0.05% disseminated fine grained chalcopyrite, 0.01% disseminated fine-medium grained molybdenite, 1% disseminated fine grained scheelite	
JN12019	198.3	207.2	veined	2% fractures fine-coarse grained pyrite, 0.05% veined fine grained pyrrhotite, 0.05% trace fine grained scheelite, 0.01% trace fine grained bismuthinite, 0.05% veined fine grained arsenopyrite, 0.05% veined fine grained molybdenite	
JN12019	207.2	210	veined	1% veined fine grained pyrite, 0.1% veined fine grained arsenopyrite, 0.05% veined fine grained scheelite, 0.01% trace fine grained bismuthinite, 0.5% veined fine grained pyrrhotite	

Appendix 4.1.4 - Structure

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DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12011	48	banding	60		banding in altered metasediments; possible bedding?
JN12011	55	banding	70		banding in altered metasediments; possible bedding?
JN12011	56	veinlet (<10cm)	60		7cm wide calcite stringer/parallel banding ?bedding
JN12011	62	banding	60		rhythmic banding/?bedding
JN12011	65.8	banding	60		garnet rich bands in skarn; possible bedding
JN12011	87	banding	70		banding in clay rich purple and green sediments; possible bedding
JN12011	89.3	banding	70		banding ?bedding
JN12011	103.5	fracture	20		common dry fracture orientation in qtz pebble conglomerate unit
JN12011	111.5		16		slickensides on fracture surface with clay and pyrite smeared along slip surface
JN12011	172.4	vein (>10cm)	30		FW contact of quartz-pyrite vein and clay altered skarn
JN12011	174.1	veinlet (<10cm)	32		Pyrite vein x-cutting quartz vein/breccia.
JN12011	177	fracture	5		open space fracturing with angel-wing texture quartz veining,and slickensides
JN12011	177.5	fracture	30		open space fracturing with angel-wing texture quartz veining and slickensides
JN12011	185.5	veinlet (<10cm)	28		pyrite band with sharp boundaries within massive sulphide interval
JN12011	186	fault plane	60		pyrite coated slickensides 60 degrees to core axis
JN12011	188.3	fault plane	25		fault plane with slickensides (coated with magnetite and epidote) 25 degrees to core axis

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12011	190.6	skarn fabric	30		lower contact of altered magnetite skarn to actinolite skarn; non sharp contact
JN12011	191.9	veinlet (<10cm)	65	165	oriented core measurement of 1cm qtz vein (common sheeted veins downhole); alpha 65, beta 165
JN12011	201.2	fracture	22	250	planar oriented fracture with chlorite qtz and py along fracture plane
JN12011	202.8	quartz vein	67	290	set of sheeted quartz stringers with py cpy
JN12011	202.9	quartz vein	65	110	1cm qtz vein in siliceous sediments with py
JN12011	203.95	veinlet (<10cm)	85	80	oriented core measurement of 1 cm quartz vein (common sheeted vein); hosting trace scheelite.
JN12011	204.2	veinlet (<10cm)	22	260	2 cm pyrite-scheelite-quartz veinlet
JN12011	209.5	contact - lithologic	70	220	upper contact of granodiorite dike
JN12011	210.5	fracture	40		suparallel clay coated fractures,6 per meter
JN12011	213.2	foliation (dominant)	70		banding in silicified sediments possible bedding
JN12011	219.3	fabric	45	323	chlorite-sericite fracture with fg pyrrhotite
JN12011	219.4	fracture	45	72	chlorite-sericite fracture fill min with trace fg sulphides
JN12011	219.7	veinlet (<10cm)	10	210	5mm qtz sulphide stringer; with trace cpy; ?scheelite
JN12011	230	fracture	31	60	dry fracture in granodiorite; pyrite on fracture
JN12011	231.6	quartz vein	55	335	grey-white qtz vein with bismuthinite clots
JN12011	237.4	quartz vein	30	313	quartz vein with bismuthinite
JN12011	239.8	quartz vein	30	329	quartz vein with tr bismuthinite

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12011	244	quartz vein	34	308	quartz vein 1cm wlde; tace bismuthinite and scheelite.
JN12011	244.9	quartz vein	38	310	sheeted quartz veins with native bismuth and bismuthinite.
JN12011	245	sheeted veins	38	298	sheeted veins with bismuthinite
JN12011	245.1	quartz vein	27	320	sheeted ven with bismuthinte
JN12011	245.9	sheeted veins	42	308	sheeted veins with bismuthinite and scheelite
JN12011	247.9	sheeted veins	40	295	sheeted veins with pyrrhotite, scheelite, bismuthinite
JN12011	248.6	sheeted veins	32	309	sheeted vein with scheelite
JN12011	253.2	sheeted veins	42	310	sheeted vein with bismuthinite
JN12011	253.8	sheeted veins	45	300	sheeted veins with tr bismuthinite
JN12011	255	sheeted veins	32	280	sheeted vein with tr pyrite
JN12011	258.1	sheeted veins	43	290	quartz vein with sharp upper contact
JN12011	258.3	sheeted veins	48	319	Sx occur concentrated in vein selvage
JN12011	262.1	sheeted veins	57	210	sheeted qtz veins
JN12011	263.5	sheeted veins	36	125	high concentration of moly in qtz vein; lesser bismuthinite
JN12011	264.4	sheeted veins	37	302	quartz vein with trace molybdenite and scheelite.
JN12011	265	quartz stringer	37	302	quartz stringer
JN12011	265.6	sheeted veins	50	292	molybdenite, bismuthinite, pyrite, scheelite in quartz vein
JN12011	265.7	sheeted veins	45	305	sheeted veins
JN12011	265.8	sheeted veins	70	310	quartz vein with trace pyrite and pyrrhotite
JN12011	267.5	sheeted veins	35	300	quartz vein in clay altered granodiorite

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12011	271.2	shear plane	30	309	lower contact of sheared breccia; this orientation is the same as the fabric in the shear
JN12011	273	shear plane	48	300	biotite breccia plane subparellel to sheeted qtz veins
JN12011	273.6	quartz vein	20	318	quartz vein with pyrite and pyrrhotite.
JN12011	274	sheeted veins	54	290	sheeted veins
JN12011	283	veinlet (<10cm)	40	45	py vein
JN12011	285.6	quartz vein	50	45	py, po in a qtz vein
JN12011	286.8	quartz/calcite vein	55	45	qtz calcite stringer
JN12011	287.8	shear plane	46	300	2cm breccia zone; qtz grains in a black matrix
JN12011	289.8	fracture	20	55	common clay fracture orientation
JN12011	292	veinlet (<10cm)	45	100	py stringer
JN12011	298.1	veinlet (<10cm)	20	305	chlorite coated fracture
JN12011	298.4	veinlet (<10cm)	30	310	chlorite+py stringer
JN12011	298.7	sheeted veins	35	295	mineralized sheeted qtz vein
JN12011	299.4	sheeted veins	30	305	oreintation of intense qtz veins above large qtz vein
JN12011	300	contact - lithologic	35	265	upper contact on qtz vein
JN12011	300.3	contact - lithologic	20	300	short interval of intrusive within qtz vein
JN12011	301.1	contact - lithologic	35	240	lower contact of qtz vein
JN12011	301.5	sheeted veins	30	290	sheeted vein
JN12011	305.1	sheeted veins	30	255	very bs rich sheeted qtz vein
JN12011	308.3	sheeted veins	45	280	sheeted qtz vein
JN12011	310.5	veinlet (<10cm)	45	265	grey qtz along fracture plane
JN12011	311.4	veinlet (<10cm)	60	275	grey qtz veinlet
JN12011	314.1	sheeted veins	60	275	sheeted qtz vein

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12011	315.4	quartz/calcite vein	35	265	py, po
JN12011	316.9	fracture	30	325	dry fracture plane
JN12011	319.8	fracture	15	200	dry fracture plane
JN12011	321.2	sheeted veins	45	250	py in qtz vein
JN12011	322	veinlet (<10cm)	40	285	tourmaline vein with py
JN12011	323.5	fault plane	8	100	tourmaline filled fracture subparellel to core axis at start of a fault zone
JN12011	327.3	veinlet (<10cm)	35	260	milky white calcite vein py
JN12011	332	veinlet (<10cm)	50	285	calcite vein with py
JN12011	341.7	veinlet (<10cm)	40	265	tourmaline vein with py
JN12011	342.7	fracture	40	250	fracture plane with po and py
JN12011	343.1	veinlet (<10cm)	37	260	tourmaline, py, cpy veinlet
JN12011	343.2	veinlet (<10cm)	40	255	tourmaline vein with py
JN12011	344	fracture	12	245	4 clay altered subparallel fracture
JN12011	345.7	fracture	35		thin py fracture fills gives core a net texture
JN12011	347.7	fracture	40		py fracture with tourmaline
JN12011	351	fracture	30	225	py, tourmaline fracture fill
JN12011	353	fracture	55	235	10/m subparallel fractures of biotite and py
JN12011	358.1	veinlet (<10cm)	14	15	6mm qtz vein at low angles to the core axis
JN12011	359.2	fracture	65	145	common dry fracture orientation
JN12011	360.4	fracture	14	90	10/m thin biotite,py fracture fill
JN12011	361.3	fracture	55		EOH 363.7m; common orientation of dry fractures with sericite and clay alteration envelopes
JN12012	11.6	fracture	44	32	common calcite+hemitite fracture orientation
JN12012	11.8	fracture	36	25	calcite chlorite fracture fill
JN12012	13	veinlet (<10cm)	50		calcite, chlorite, pyrite vein

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12012	13.9	veinlet (<10cm)	45		white qtz vein with bismuthinite
JN12012	17.1	veinlet (<10cm)	50		qtz veinlet with chlorite salvages
JN12012	21	fracture	38	180	sheeted chlorite,calcite, hemitite fractures
JN12012	21.1	fracture	23	58	3mm calcite chlorite and hemitite fracture
JN12012	22.6	veinlet (<10cm)	50		sheeted qtz vein, qtz and bismuthinite
JN12012	27	veinlet (<10cm)	55		sheeted qtz vein, with bismuthinite and scheelite as ribbon in the vein
JN12012	38.6	veinlet (<10cm)	46	28	3mm calcite vein with 3cm alteration envelope of tan carbonate(retrograde skarn assemblage)
JN12012	41.7	veinlet (<10cm)	25		milky white calcite + hematite vein
JN12012	43.5	veinlet (<10cm)	50		common 6/m pyrite stringer cutting clay altered granodiorite-this orientation displaces an earlier py stringers at 30 degrees to core axis
JN12012	47.6	veinlet (<10cm)	64	100	thin common dark green chlorite stringer set cutting silicified skarn/granodiorite interval; chlorite stringers at various angles as well as this orientation
JN12012	51.2	veinlet (<10cm)	65		thin dark grey py (?+sx) stringers 10/10cm
JN12012	52.3	veinlet (<10cm)	55		thin grey py (+sx) stringers cutting clay altered granodiorite interval
JN12012	54.9	veinlet (<10cm)	55		dark grey py + fine grained sx stringers 5/10cm cutting clay altered granodiorite interval

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12012	55.4	veinlet (<10cm)	45		white cockade calcite fracture infill with 40% open space cutting retrograde skarn/tan ankeritic/dolomitic clay alteration interval before magnetite skarn
JN12012	56.4	sheeted veins	55		grey qtz stringer (similar orientation as buff/tan coloured carbonate alteration) cutting magnetite skarn interval
JN12012	58.4	sheeted veins	55		grey qtz with 5% open space cutting magnetite skarn; same orientation of buff carbonate alteration envelopes to fractures and the qtz stringers
JN12012	61.6	veinlet (<10cm)	32	290	1mm white calcite fracture filling feature with common 3cm hematite alteration envelopes
JN12012	62.8	veinlet (<10cm)	64	350	ragged white calcite stringer with intense hematite alteration envelope 0.5cm wide
JN12012	67.9	veinlet (<10cm)	35	218	common chlorite stringer orientation in px skarn unit
JN12012	74	veinlet (<10cm)	50	53	calcite/hematite vein
JN12012	74.1	veinlet (<10cm)	48	273	calcite/epidote/hematite crosscutting stringer orientation (cuts veins at 74m)
JN12012	76.3	sheeted veins	50	50	sheeted quartz vein
JN12012	77.6	veinlets	48		sheeted dark green chlorite stringers
JN12012	80.4	sheeted veins	55		sheeted qtz veins in retorgrade skarn below
JN12012	80.6	alteration front	60		alteration front a division between the prograde and retrograde skarn at the start of the mineralized
JN12012	80.7	sheeted veins	60		clear sheeted qtz veins in clay altered QFP

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12012	81.7	sheeted veins	55		py stringers sub// to sheeted qtz stringers
JN12012	83.3	alteration front	55		alteration front of skarn with retrograde skarn hosting sheeted veins
JN12012	83.5	sheeted veins	50		pyrrhotite stringers subparallel to sheeted qtz stringers
JN12012	84.5	sheeted veins	60		sheeted qtz veins
JN12012	84.7	sheeted veins	50		sheeted qtz veins
JN12012	85.9	sheeted veins	55		sheeted qtz veins
JN12012	87.5	sheeted veins	55		py stringers sub// to qtz stringers
JN12012	88	sheeted veins	50		sheeted qtz veins
JN12012	106.1	sheeted veins	50		quartz veins
JN12012	107.4	shear plane	45		lower contact shearing direction
JN12012	108.2	lithologic contact	50		intrusive/sediment contact
JN12012	110.5	veinlet (<10cm)	23		common calcite veining orientation in brittle offset deformed hornfels siltstone
JN12012	113.9	fracture	40		common fracture direction in siltstone unit (fracture every 12-15cm)
JN12012	126	bedding	10	90	bedding in black limestone interval
JN12012	131	fault plane	4		subparallel to core axis calcite filled fractures that offset bedding
JN12012	134.5	bedding	10		bedding 10 degrees to ca
JN12012	138.7	bedding	10		bedding 10 degrees to ca
JN12012	142.8	bedding	10		
JN12012	143.7	bedding	10	130	
JN12012	147.4	bedding	10		
JN12012	147.5	fault plane	30		micro folding and faulting along plane; offset about 1cm
JN12012	154.7	veinlet (<10cm)	50		3cm qtz vein
JN12012	156.3	shear plane	15		shearing direction subparallel to qtz vein

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12012	156.6	veinlet (<10cm)	20		EOH 157.5m; broken 3cm qtz vein
JN12013	8.9	sheeted veins	45	292	sheeted qtz vein
JN12013	10.1	sheeted veins	34		sheeted qtz vein
JN12013	10.9	sheeted veins	25		white qtz veinlet with po margins
JN12013	16.3	sheeted veins	40		common orientation of intense sheeted qtz vein interval
JN12013	21.1	shear plane	25		upper contact of sheared interval (py stringer along skarn/qtz contact)
JN12013	30.4	sheeted veins	30		sheeted qtz stringer with py/po envelopes and open space and pyrite
JN12013	32.2	sheeted veins	35		sheeted qtz vein in qtz flooded zone
JN12013	34	banding	40		garnet banding in massive px skarn interval - ?relict bedding
JN12013	42.3	fracture	48	160	1mm chlorite common fracture orientation
JN12013	43	veinlet (<10cm)	50	342	chlorite stringer
JN12013	48.2	banding	43	360	crude bands of scheelite blebs cutting massive px skarn interval
JN12013	49.8	sheeted veins	35	72	1cm wide qtz/calcite sheeted vein set
JN12013	55.3	banding	30	192	garnet banding in massive px skarn interval ?relict bedding
JN12013	60.8	veinlet (<10cm)	18		pyrite stringer in sheared interval
JN12013	61	fracture	8		calcite lined common fracture orientation
JN12013	70	veinlet (<10cm)	40		calcite veinlet cutting massive px skarn
JN12013	70.4	fracture	50		thin calcite fracture-fill, common orientation
JN12013	73.7	fracture	50		fracture
JN12013	74.5	fracture	2		hairline fractures sub// core axis

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12013	77.1	fracture	10		fracture with calcite and sericite
JN12013	84	fracture	48		fracture with calcite
JN12013	90.3	banding	50		garnet banding
JN12013	92.5	sheeted veins	40		3mm qtz vein with bismuthinite and native bismuth
JN12013	95.4	fracture	20		common fracture angle
JN12013	95.7	sheeted veins	40		sheeted qtz vein
JN12013	98.5	fracture	10		calcite clay and major bismuthinite (XRF confirmed) along fracture surface
JN12013	99.2	sheeted veins	40		sheeted qtz veins trace bismuthinite
JN12013	100.1	sheeted veins	48		sheeted qtz vein with bismuthinite and native bismuth
JN12013	102.4	fracture	40		fracture coated with calcite
JN12013	103	fracture	38		fracture coated with calcite and trace bismuthinite
JN12013	104.7	veinlet (<10cm)	65		sheeted clear qtz veins
JN12013	105.9	veinlet (<10cm)	50		sheeted clear qtz vein in QFP
JN12013	106.3	veinlet (<10cm)	40		sheeted qtz vein with bismuthinite cuts across QFP and granodiorite contact; see paragenesis photo
JN12013	108.2	fracture	50		common dry fractures
JN12013	110.4	veinlet (<10cm)	40	312	sheeted qtz vein with py salvages
JN12013	110.7	veinlet (<10cm)	38	330	ribbon qtz vein with py, bismuthinite
JN12013	112.6	veinlet (<10cm)	35		sheeted qtz vein with moly
JN12013	115.9	contact - lithologic	40		lower contact of mafic dyke and qtz vein with bismuthinite along contact
JN12013	117.2	contact - lithologic	35	360	lower contact of mafic dyke

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12013	117.5	fracture	35	18	py along common fracture orientation
JN12013	119.1	veinlet (<10cm)	30	10	sheeted qtz vein with py
JN12013	124.2	veinlet (<10cm)	40		sheeted qtz vein
JN12013	124.5	veinlet (<10cm)	40		sheeted qtz vein
JN12013	125.1	veinlet (<10cm)	40		sheeted qtz vein with gobs of moly
JN12013	126.4	veinlet (<10cm)	25		qtz vein
JN12013	130.9	fracture	50	22	fracture with 2cm alteration envelope
JN12013	131.3	veinlet (<10cm)	30	10	sheeted qtz vein with pyrrhotite and bismuthinite
JN12013	133.9	fault plane	45	72	questionable upper fault contact ofclay rich zone
JN12013	136.5	veinlet (<10cm)	40	18	sheeted qtz vein with pyrrhotite
JN12013	140.3	fracture	35		common dry fracture orientation
JN12013	140.6	fracture	40	260	common dry fracture orientation
JN12013	141.4	fracture	20	45	low angle dry fracture orientation
JN12013	143.7	fault plane	30		fault plane with sericite
JN12013	146.9	veinlet (<10cm)	35	18	3mm sheeted qtz vein
JN12013	149.2	veinlet (<10cm)	32		2cm sheeted qtz vein
JN12013	149.8	fracture	30		sulphide coated fracture in clay rich zone
JN12013	150.2	fracture	40	80	common dry fracture orientation
JN12013	158.9	fracture	8	260	very low angle fracture filled with biotite and sericite
JN12013	160.5	veinlet (<10cm)	35		3mm clear qtz vein
JN12013	161.5	veinlet (<10cm)	35		EOH @ 162.0m; 4mm white calcite stringer with cpy and rare bismuthinite
JN12014	6.5	sheeted veins	55		clear qtz stringer with chlorite selvages
JN12014	8.8	sheeted veins	20	50	clear qtz stringers

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	9.7	sheeted veins	55	35	clear qtz stringers
JN12014	9.9	veinlet (<10cm)	50	25	1mm wide pyrrhotite stringer
JN12014	10.4	veinlet (<10cm)	50		2cm white qtz vein that is sheared with pyrrhotite and chlorite fractures in qtz
JN12014	11.6	veinlet (<10cm)	46	160	2mm chlorite and pyrrhotite vein
JN12014	11.9	fracture	43	345	tan carbonated stringers/fracture-fill zone
JN12014	17.4	banding	50		start of brown garnet banding ?relict bedding
JN12014	18.4	banding	28	160	banding ?relict bedding
JN12014	18.5	fracture	18	98	chlorite fracture fill common orientation
JN12014	20.5	fracture	58	192	dark green black common chlorite stringers/fracture fill cutting garnet skarn
JN12014	23	sheeted veins	55	350	sheeted qtz veins in massive pyroxene skarn interval
JN12014	24	veinlet (<10cm)	40	21	white ragged qtz + minor calcite stringer
JN12014	27	veinlet (<10cm)	68	360	chlorite stringer cutting garnet rich px skarn
JN12014	32	sheeted veins	52	346	1.5cm white qtz vein (part of the a sheeted vein orientation)
JN12014	34.7	sheeted veins	55	340	white ragged qtz stringer, typical vein orientation in massive px skarn
JN12014	38.9	fracture	32	268	clay coated fracture
JN12014	39.6	veinlet (<10cm)	50	198	1.4cm wide white calcite stringer
JN12014	46.6	fracture	24	208	low angle fracture surface with hematite alteration envelope
JN12014	60.5	sheeted veins	66	350	clear sheeted qtz stringers
JN12014	60.7	sheeted veins	75	340	high angle to core axis 0.9cm qtz vein with moly and bismuthinite along fracture in qtz

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	61.3	sheeted veins	30	258	crosscutting set of sheeted qtz veins at lower angle to core axis
JN12014	68.8	contact - lithologic	38		upper contact of granodiorite; 2cm quartz vein along contact
JN12014	71	fault plane	50		sharp fault plane surface that demarcates clay rich granodiorite from biotite fresher looking granodiorite at intrusive contact
JN12014	74.7	sheeted veins	53		1cm qtz vein with bismuthinite in qtz stockwork granodiorite
JN12014	77	sheeted veins	30		common orientation of a sheeted qtz vein set within a stockwork zone granodiorite
JN12014	80.3	sheeted veins	45		1cm qtz vein with bleb of native bismuth surrounded by bismuthinite in qtz stockwork zone in granodiorite
JN12014	83	veinlet (<10cm)	5		1.3cm wide qtz vein subparallel to core axis with biotite/chlorite ribbons throughout qtz
JN12014	89.8	fracture	45	108	common fracture orientation within biotite granodiorite interval
JN12014	95.3	sheeted veins	42		common sheeted qtz vein orientation
JN12014	95.9	sheeted veins	40		common sheeted qtz vein orientation in granodiorite interval
JN12014	97.7	sheeted veins	43		common white qtz vein orientation in granodiorite interval
JN12014	101.8	fracture	50		clay along common sheeted fracture set which crosscuts qtz veining in granodiorite

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	107.6	sheeted veins	17		clear to white qtz vein set (orientation line for bottom of hole is questionable but beta is 248)
JN12014	111.1	sheeted veins	42	332	clear qtz vein orientation in clay altered granodiorite
JN12014	113.8	veinlet (<10cm)	55		clear qtz veining in clay altered granodiorite
JN12014	115.5	sheeted veins	50		0.3 cm sheeted qtz vein set with moly bleb qtz in biotite granodiorite
JN12014	118.5	fracture	15		low angle fracture surface cutting biotite granodiorite
JN12014	120.4	veinlet (<10cm)	20	238	somewhat deformed qtz stringer in biotite granodiorite
JN12014	122.5	fracture	40	330	common clay coated fracture surface with pyrite on fracture
JN12014	124.2	veinlet (<10cm)	70		1.3cm milky white qtz and fine grained pyrite +?other sx in sericitic granodiorite
JN12014	126.6	sheeted veins	7		set of deformed clear and mikly white qtz stringers sub// to core axis
JN12014	133.2	veinlet (<10cm)	45		0.9cm wide clear qtz vein with blebs of pyrrhotite
JN12014	133.5	fracture	55		set of dry fractures with bleached clay after feldspar alteration envelopes
JN12014	136.4	sheeted veins	45		common orientation of sheeted qtz veins (with local blebs of pyrrhotite)
JN12014	139.5	fracture	45		3cm bleached altered zone with 5 thin clay rich fractures all parallel 45
JN12014	142.3	veinlet (<10cm)	30		1cm wide qtz stringer (somewhat atypical orientation) with blebs of pyrrhotite
JN12014	144.4	fracture	10		clay coated fracture at a low angle to core axis

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	146.6	sheeted veins	45	350	fractured sheeted qtz vein with very thin sx ?bismuthinite along fracture in qtz
JN12014	148.4	fracture	40	112	clay coated fracture with 0.5cm bleached clay after feldspar alteration envelope
JN12014	150.2	sheeted veins	43		common orientation of sheeted qtz veins
JN12014	155.1	sheeted veins	52		large qtz stringer with coarse blebs of fine grained pyrite in qtz
JN12014	156.4	sheeted veins	45		common sheeted qtz vein orientation
JN12014	158.6	sheeted veins	30		sheeted qtz vein
JN12014	158.7	fracture	65	62	thin white clay filled common fracture orientation
JN12014	167.2	sheeted veins	38	272	1cm sheeted white qtz vein orientation
JN12014	169.1	fracture	40	63	common fracture orientation +/- very fine grained sx on fracture with clay
JN12014	169.5	fracture	7	190	tan coloured low angle to core axis fracture fill with clay
JN12014	172.9	veinlet (<10cm)	50	270	dark grey sx veinlet with white calcite and open space core
JN12014	174	veinlet (<10cm)	30	248	streaky white/grey calcite veinlet
JN12014	174.1	veinlet (<10cm)	38	275	mottled white and clear calcite (minor qtz) veinlet
JN12014	174.5	fracture	23	260	low angle clear qtz and clay/fine grained suphides coating fracture above clay gouge fault zone
JN12014	176.9	veinlet (<10cm)	63	12	milky white calcite/qtz veinlet
JN12014	179.5	sheeted veins	45		sheeted qtz vein common orientation
JN12014	183.5	sheeted veins	48		sheeted qtz vein with blebs of bismuthinite

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	184.7	fault plane	58		upper contact of sx rich weakly brecciated qtz stringer zone
JN12014	187.3	quartz vein	35		VG qtz vein at 35 degrees to core axis
JN12014	191.8	sheeted veins	52	360	sheeted qtz veins
JN12014	193.6	sheeted veins	45		bismuthinite in sheeted qtz veins
JN12014	194.6	contact - lithologic	55	315	upper contact of 30 cm bismuthinite rich qtz vein
JN12014	194.9	contact - lithologic	55	315	lower contact of 30cm bismuthinite rich qtz vein
JN12014	195.3	veinlet (<10cm)	55	312	pyrite stringers and fault planes that truncate earlier qtz veining
JN12014	195.4	veinlet (<10cm)	30	285	pyrite stringers/fault planes that truncate earlier qtz veining
JN12014	196.6	contact - lithologic	25	330	upper contact of 30 cm "sexy" bismuthinite qtz vein
JN12014	200.7	veinlet (<10cm)	61	40	3cm py/aspy and qtz vein along fractures coated with fine grained pyrite
JN12014	201	fault plane	56	48	common sharp fracture plane orientation that offsets earlier qtz veining
JN12014	201.3	sheeted veins	26	240	2cm wide low angle to core axis qtz stringers that are locally offset
JN12014	201.4	fault plane	58	32	common sharp fracture plane orientation that offsets earlier qtz veining (locally filled with fine grained pyrite
JN12014	201.6	fracture	66	28	pyrite stringer zone along a very sharp planar fracture plane
JN12014	206.3	sheeted veins	60		8cm wide qtz stringer with very fine grained moly and rare bismuthinite
JN12014	206.8	veinlet (<10cm)	26		1.3cm qtz stringer with large blebs of moly

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	210.2	veinlet (<10cm)	55	225	series of thin pyrite stringers 0.6cm wide in total
JN12014	212.9	fracture	47	95	common fracture plane orientation
JN12014	213	fracture	65	55	common fracture plane orientation
JN12014	214.6	veinlet (<10cm)	28		4cm wide white qtz stringer with fine grained sx on HW contact
JN12014	216.6	shear plane	55		common clay and f.g. sx on fracture nearing granodiorite/skarn contact
JN12014	217.3	fault plane	58		sharp sx rich gouge shear plane at upper contact with retrograde skarn
JN12014	217.8	banding	46		common orientation of banding in sx rich upper contact of retrograde skarn interval
JN12014	220.3	banding	65		common banding of sulphides within retrograde skarn alteration
JN12014	225.2	foliation (early)	32		possible bedding orientation in grey siltstone
JN12014	228.3	foliation (early)	44		possible bedding oritentation in grey siltstone unit
JN12014	236.1	foliation (early)	12		possible bedding orientation in black limestone unit
JN12014	249.4	banding	15		banding in hornfels calcareous siltstone interval ?bedding
JN12014	252.8	veinlet (<10cm)	35	270	2mm white calcite veins that crosscut the hornfels banding/bedding
JN12014	252.9	bedding	30	178	banding in calcareous siltstone - possible bedding
JN12014	254.8	bedding	13	150	bedding in calcareous siltstone unit

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12014	279.8	shear plane	46		sharp slip plane in siltstone as colour change across feature but not composition
JN12014	281.7	shear plane	47		planar pyrite stringer zone with noted arsenopyrite
JN12014	289	bedding	20		slightly folded/warped bands - may represent bedding
JN12014	291.3	shear plane	50		common orientation of 0.1mm micro-fracturing in gritty qtz sandstone interval
JN12014	293	bedding	15		local banding in sitlstone - shows warping (gentle folding of bedding?)
JN12014	294.6	shear plane	20		EOH 297m; common sheeted microfractures in gritty qtz sandstone unit that has sinstral mm scale offsets
JN12015	5.8	veinlet (<10cm)	57		chalcedonic quartz vein within quartz pebble conglomerate.
JN12015	8.8	fracture	55		euhedral pyrite on quartz filled fracture.
JN12015	10	quartz vein	50		pyrite veinlet
JN12015	15.2	quartz vein	58		quartz vein
JN12015	16.3	quartz vein	12		quartz vein
JN12015	16.7	quartz vein	60		quartz-pyrite vein.
JN12015	20	quartz vein	25		chalcedonic quartz vein.
JN12015	20.5	foliation (dominant)	20		foliation/bedding?
JN12016	8	banding	30		garnet banding in hornfels, possible bedding?
JN12016	11.4	veinlet (<10cm)	30	20	thin chlorite stringers common orientation
JN12016	11.8	veinlet (<10cm)	30	325	common chlorite bands in siliceous hornfels
JN12016	12.8	contact - lithologic	42		sharp contact between qtz pebble conglomerate and altered siltstone

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	17.8	banding	52	225	common banding in garnet rich hornfels interval ?relict bedding?
JN12016	22.2	bedding	41	220	bedding plane in silicified garnet rich hornfels
JN12016	48.2	veinlet (<10cm)	20		calcite vein with retrograde tan carbonate alteration envelope
JN12016	49.8	veinlet (<10cm)	50		sheeted dark green chlorite veinlets (// to fractures with tan alteration envelopes)
JN12016	61.6	fracture	3		dark grey pyrite along fracture sub// to core axis with open space and slicks on a detailed scale
JN12016	64.1	veinlet (<10cm)	15		1.5cm calcite vein with chlorite and hematite selvages
JN12016	68	contact - lithologic	48	298	lower contact of granodiorite dyke with px skarn
JN12016	69.4	dike	30		orientation of granodiorite bands in silicified skarned interval
JN12016	72.1	quartz vein	34	92	quartz vein within prograde skarn, trace sulphide mineralization
JN12016	74.6	calcite vein	45	340	calcite veinlet with hematite halo
JN12016	81.8	quartz vein	37		sheeted quartz veinlet
JN12016	90.3	quartz vein	35		pyrite-quartz vein - vuggy
JN12016	90.7	quartz vein	18		quartz-pyrite shear sone/veining - pyrite min parallels shear plane
JN12016	91.2	banding	28		So/S1? Limonite alteration parallels the fabric/bedding?
JN12016	94.2	veinlet (<10cm)	35		pyrite-quartz veinlet with trace molybdenite.
JN12016	95.3	veinlet (<10cm)	33	0	limonite vein within oxidized magnetite skarn.
JN12016	96	bedding	31	220	remnant bedding within retrograde skarn.

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	98	banding	22		So/S1?
JN12016	99	fracture	0		brittle fracture.
JN12016	99.8	veinlet (<10cm)	30		veinlet
JN12016	101.4	veinlet (<10cm)	39		veinlet
JN12016	102.3	veinlet (<10cm)	40		quartz-molybdenite vein
JN12016	105	vein (>10cm)	42		quartz vein with 1 pinprick VG.
JN12016	106.3	vein (>10cm)	43		bismuthinite lamination within quartz veining
JN12016	108.5	veinlet (<10cm)	35		vuggy quartz vein in retrograde skarn.
JN12016	109.7	veinlet (<10cm)	35		pyrite quartz vein in retrograde skarn
JN12016	111.6	veinlet (<10cm)	22		quartz vein
JN12016	115.5	banding	43		banding in hornfels near contact with granodiorite
JN12016	116.8	quartz vein	15		local sheeted qtz vein in stockwork; common orientation but not planar
JN12016	118.3	banding	50		banding at upper contact of grdr; not well defined due to heavy veining and overprinting of alteration
JN12016	118.8	fracture plane	35		sharp sulphide filled fracture ? Shearing orientation
JN12016	119.2	shear plane	30		sharp sulphide and qtz veining ? Shearing orientation
JN12016	120.1	veinlet (<10cm)	36	248	common qtz vein orientation
JN12016	120.4	fracture plane	35	265	common fracture plane with local sulphides
JN12016	123.1	veinlet (<10cm)	15	340	1cm qtz vein with moly blebbs
JN12016	123.8	sheeted veins	32		sheeted qtz vein with bismuthinite and moly
JN12016	126.9	veinlet (<10cm)	32		2mm qtz vein with silicification alteration envelope

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	128.2	foliation (early)	25		common allignment of biotite crystals in magmatic segragation ? Possible shearing direction
JN12016	129.2	fracture	55		common local fracture orientation
JN12016	130.5	fracture	70		10cm subparallel thin clay coated fracture
JN12016	133.3	fracture	60		sulphide (bismuth, moly,lead) fracture in qtz vein
JN12016	133.4	fracture	55		fracture within qtz vein
JN12016	133.6	contact - lithologic	65		footwall contact of 3cm qtz vein with Cu, Bs, Pb (XRF)
JN12016	134.8	fracture	35	280	common fracture orientation in sheared granodiorite
JN12016	137	fracture	48		common fracture orientation in sheared granodiorite
JN12016	138.8	veinlet (<10cm)	45		qtz vein with moly
JN12016	142	veinlet (<10cm)	50	292	0.6mm qtz vein
JN12016	144.4	veinlet (<10cm)	18		common sheeted qtz vein orientation
JN12016	145.2	veinlet (<10cm)	20		qtz str
JN12016	145.8	shear plane	18		lower sharp contact of shear zone
JN12016	146	veinlet (<10cm)	20		1cm qtz stringer
JN12016	151	sheeted veins	20		sheeted qtz vein
JN12016	151.5	fracture	50		common fracture orientation
JN12016	153	fault plane	3		0.3cm pyrite fracture fill sub// to core axis with minor slickensides present
JN12016	158.2	fracture	50		common fracture orientation
JN12016	161.2	sheeted veins	21		zone of 3 1cm wide qtz veins with large py (XRF says elevated Sb, As, Cu & Pb) sx bleb
JN12016	166.9	fracture	20	350	pyrite fracture with open space

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	167.8	veinlet (<10cm)	20		1cm qtz stringer
JN12016	169.1	fracture	10		0.2cim common clay on fractures orientation
JN12016	177	shear plane	40	340	shear plane/veinlet of biotite/qtz
JN12016	177.4	shear plane	28	335	qtz/biotite shear plane with bismuth, lead, copper and zinc
JN12016	178.8	veinlet (<10cm)	42	15	vein of bismuthinite/moly/pyrite qtz breccia zone
JN12016	180.1	shear plane	42	110	shear with biotite and pyrite
JN12016	180.6	veinlet (<10cm)	60	350	qtz vein with pyrite
JN12016	181.6	sheeted veins	55	109	sheeted qtz veinlet with pyrite
JN12016	181.9	sheeted veins	35	360	1cm qtz vein with py, biotite and rare moly in qtz
JN12016	182.2	veinlet (<10cm)	25	342	qtz/biotite veinlet with py
JN12016	182.3	vein (>10cm)	35	25	3cm qtz vein with py, scheelite and trace moly
JN12016	192.1	veinlet (<10cm)	55	275	qtz vein with trace py and pyrrhotite
JN12016	193.7	veinlet (<10cm)	35		2.1cm wide qtz vein with trace moly
JN12016	193.9	veinlet (<10cm)	43	38	1.8cm wide oriented qtz stringer
JN12016	195	veinlet (<10cm)	41	10	zone of three qtz veins with moly
JN12016	195.1	veinlet (<10cm)	40	25	altered zone of three qtz veins with moly
JN12016	195.2	veinlet (<10cm)	20	17	zone of three qtz veins with moly (all different orientations)
JN12016	200	shear plane	38	25	hw contact of qtz biotite sericite shear, py sphalerite
JN12016	200.2	veinlet (<10cm)	35	25	pyrite veinlet 3mm wide
JN12016	200.5	fracture	48	192	fracture with pyrite and blebby sphalerite

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	202.1	fracture	72	228	fracture with pyrite, common orientation of fraction
JN12016	202.6	sheeted veins	30	308	sheeted qtz vein with py moly
JN12016	203.4	contact - lithologic	38		FW contact of biotite qtz breccia, 560 W by XRF
JN12016	209.3	fracture	45	238	biotite +/- pyrite fracture
JN12016	209.6	fracture	65	288	biotite +/- fracture with pyrite
JN12016	211.7	veinlet (<10cm)	23	320	qtz veinlet vugged with trace f.g. pyrite
JN12016	213.9	veinlet (<10cm)	30	245	1cm qtz vein with pyrite
JN12016	215.1	veinlet (<10cm)	35		5cm breccia with qtz clasts in a biotite/pyrite vugged matrix
JN12016	215.6	veinlet (<10cm)	37		qtz veinlet with pyrite and sericite
JN12016	216.5	veinlet (<10cm)	20		sx vein with XRF Sb and pyrite
JN12016	218.5	fracture	35		pyrite fracture fill
JN12016	219.4	fracture	40		pyrite fracture fill in clay altered granodiorite
JN12016	220	veinlet (<10cm)	48		1cm qtz vein with pyrite ribbons and selvages
JN12016	220.1	veinlet (<10cm)	42		10cm altered zone of qtz in sheared granodiorite with moly, sphalerite, and sericite and pyrite in qtz
JN12016	220.8	veinlet (<10cm)	28		qtz stringer that offsets an ankerite veinlet
JN12016	222	veinlet (<10cm)	18	148	ankerite vein with pyrite as alteration envelope
JN12016	225.7	veinlet (<10cm)	25	310	ankerite vein
JN12016	226.8	veinlet (<10cm)	10	180	3 1-2mm wide qtz stringers that are barren but vuggy at contacts
JN12016	231.2	veinlet (<10cm)	40	110	2cm qtz vein vuggy with pyrite
JN12016	235.1	shear plane	40	310	HW contact of 60cm wide shear with pyrite and possible f.g. sx

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	239.3	fracture	36	292	1mm pyrite fracture
JN12016	242	veinlet (<10cm)	54	302	2mm pyrite veinlet
JN12016	242.5	veinlet (<10cm)	32	198	qtz pyrite sericite with 3-5% diss py at HW contact
JN12016	245.6	veinlet (<10cm)	23	210	common qtz pyrite veinlet orientation
JN12016	249.8	veinlet (<10cm)	32	10	very juicy vein with bismuthinite (0.1%) with clay alteration at contacts
JN12016	252.8	shear plane	22		qtz pyrite shear plane, partially vugged
JN12016	254.8	veinlet (<10cm)	23		qtz stringer with pyrite
JN12016	258.2	veinlet (<10cm)	35	200	local sheeted qtz pyrite veinlets
JN12016	260	veinlet (<10cm)	18	350	fine grained pyrite and chlorite along veinlets/fracture fill in clay altered granodiorite section
JN12016	261.2	veinlet (<10cm)	11	10	qtz pyrite vein in clay altered granodiorite
JN12016	263.8	veinlet (<10cm)	28	192	qtz pyrite veinlet with sericite altered contacts
JN12016	269.5	fault plane	50		fault gouge within clay altered granodiorite; calcareous matrix
JN12016	271.2	contact - lithologic	35		HW contact of ribbon qtz sx vein
JN12016	273.5	fault plane	17		slickenside at FW contact of ribbon qtz sx vein; black chlorite and polished pyrite coating on slip surface
JN12016	273.6	veinlet (<10cm)	28		brecciated qtz sx vein
JN12016	275.6	veinlet (<10cm)	55		qtz pyrite and bismuthinite veinlet with sphalerite
JN12016	278.7	fault plane	70		1cm fault gouge with calcareous matrix
JN12016	285.4	veinlet (<10cm)	40		qtz veinlet without sx
JN12016	288.5	fracture	35	290	thin pyrite fracture
JN12016	291	veinlet (<10cm)	35	300	1cm qtz vein with trace pyrite and molybdenite

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12016	293.6	vein (<10cm)	25	288	20cm qtz vein with 0.5% molybdenite
JN12016	296.9	fracture	60	350	common fracture orientation with calcite coating
JN12016	299	veinlet (<10cm)	40	322	EOH 300m; 2cm qtz vein with pyrite and pyrrhotite
JN12017	19.5	bedding	30		banding and probable bedding in weakly hornfels siltstone/sandstone sediments at top of hole (So)
JN12017	24.3	bedding	35		bedding in calcareous siltstone unit
JN12017	26.5	bedding	35		bedding in calcareous siltstone unit
JN12017	31.1	veinlet (<10cm)	43		siliceous bed or thin 1cm qtz veinlet along bedding in weakly hornfels calcareous siltstone unit
JN12017	35.4	bedding	40		bedding
JN12017	36.3	bedding	30		bedding
JN12017	38.5	fault plane	38		upper contact of 5cm clay gouge faulted area between 38.5 to 45m with 5.2 m of LOST core
JN12017	45.2	Shear	22		direction of shearing and elongation of qtz rich clasts within a minor fault shear with pyrite
JN12017	51	banding	40		banding in intense hornfels/skarn; possible bedding as well?
JN12017	54.5	veinlet (<10cm)	45		0.6cm band of pyrrhotite and pyrite; sub// to hornfels/skarn banding ??bedding?
JN12017	54.6	banding	45		banding in intense hornfels/skarn; possible bedding as well?

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12017	57.2	banding	40		banding in intense hornfels/skarn - local medium brown coloured garnet band near upper contact with massive garnet beds below
JN12017	58.1	banding	35		banding in intense hornfels/skarn near contact with garnet rich skarn
JN12017	59.3	banding	25		banding in garnet rich skarn
JN12017	62.8	veinlet (<10cm)	20		pyrite with hematite and chlorite stringer in garnet rich skarn
JN12017	63.3	banding	35		banding in garnet rich skarn
JN12017	64.5	veinlet (<10cm)	30		2cm coarse grained white calcite veinlet
JN12017	66	banding	25		banding in garnet rich skarn
JN12017	66.6	sheeted veins	35		sheeted dark green chlorite veinlets
JN12017	68.7	banding	25		banding in garnet rich skarn
JN12017	68.8	veinlet (<10cm)	37		white calcite veinlet in garnet rich skarn
JN12017	70.1	sheeted veins	30		sheeted dark green chlorite veinlets and local hematite
JN12017	73.9	fracture plane	38		common fracture orientation in granodiorite
JN12017	85.9	veinlet (<10cm)	50		thin carbonate veinlet in granodiorite zenolith within the QFP interval
JN12017	86.4	veinlet (<10cm)	45		thin pyrite stringer in xenolith of granodiorite? In QFP interval
JN12017	90.9	banding	50		banding in retrograde skarn interval
JN12017	94.5	banding	45		banding outlined by pyrite alteration band within retrograde carbonate/clay altered garnet skarn
JN12017	98.1	veinlet (<10cm)	50		coarse white calcite veinlet sub// banding in banded garnet skarn interval

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12017	99.5	banding	50		banding in garnet rich skarn interval; ?bedding
JN12017	101.3	banding	40		banding in garnet rich skarn interval; ?bedding
JN12017	104.8	banding	45		banding in banded garnet skarn
JN12017	107.9	banding	45		banding in banded garnet skarn
JN12017	110	bedding	35		sharp upper contact of qtz pebble conglomerate with finer grained qtz rich sandstone (graded bedding in thick sequence of qpc)
JN12017	122.7	banding	65		banding and possibly bedding in local grey clay rich siltstone interbed within dominantly clay altered qtz pebble conglomerate graded bedding sequence
JN12017	122.8	veinlet (<10cm)	20		planar 2mm pyrite fracture fill/veinlet in clay altered siltstone interbed in large qtz pebble conglomerate sequence
JN12017	123.6	fault plane	15		clay fault gouge and clay rich qtz pebble conglomerate sharp planar fault contact
JN12017	132.8	banding	50		banding within hornfels, probable bedding
JN12017	138.8	bedding	45		bedding within quartz pebble conglomerate
JN12017	146.8	fracture	30		sulphide coated fracture, common orientation within the quartz pebble conglomerate
JN12017	156.4	bedding	45		bedding within siltstone
JN12017	165.2	fault plane	5		EOH @ 171.0 meters. Hole abandoned. Fault plane within clay gouge
JN12018	20.2	bedding	32		banding/bedding in weakly hornfelsed calcareous siltstone sequence

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	22.1	fault plane	30		upper sharp contact of clay gouge rich fault zone
JN12018	24.7	bedding	30		banding/bedding in weakly hornfelsed calcareous siltstone sequence
JN12018	27.4	bedding	30		upper sharp contact/bedding orientation with common clay coating fractures at start of pyritic siltstone interval
JN12018	31.5	bedding	35		bedding/banding common orientation
JN12018	34.5	bedding	39		bedding/banding common orientation
JN12018	37.5	bedding	40		sharp upper contact of hornfelsed siltstone and qtz sandstone - bedding
JN12018	37.9	bedding	38		sharp lower contact of qtz sandstone interbed with hornfelsed siltstone
JN12018	46.7	fracture	50		clay and fine grained sulphide fracture plane in qtz sandstone
JN12018	49.3	banding	20		banding in hornfelsed siltstone unit at upper contact of QFP/granodiorite
JN12018	50.6	lithologic contact	40		sharp clay gouge upper fault contact of QFP unit
JN12018	55.4	fracture	20		common clay coated fracture surface in intrusive unit
JN12018	57.2	fault plane	25		slickensided slip surface along a sharp fracture plane in biotite rich qtz granodiorite interval
JN12018	62.5	lithological contact	43		lower knife sharp contact of qtz sandstone ??zenolith and intrusive
JN12018	66.8	banding	44		crude sulphide rich band in garnet skarn interval
JN12018	70.2	contact - lithologic	40		upper sharp contact of sulphide qtz rich breccia interval

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	73.3	veinlet (<10cm)	68		tan carbonate stringer with fine grained sulphide footwall alteration envelope
JN12018	75	veinlet (<10cm)	40		1cm wide white calcite veinlet
JN12018	75.2	veinlet (<10cm)	43		common orientation of green chlorite veinlet in garnet skarn interval
JN12018	76.8	fracture	20		local fracture plane orientation at lower contact of garnet skarn and hornfels unit
JN12018	77.4	banding	40		rare banding in hornfels interval
JN12018	81.4	fracture	40		common fracture orientation in gouge rich siltstone interval
JN12018	83.9	fracture	30		sharp upper "contact" of pyritic siltstone
JN12018	86.7	fracture	25		sharp fracture plane with 2cm of clay gouge preserved in core
JN12018	94.8	banding	30		common orientation of banding in rhythmically banded hornfels/skarn interval
JN12018	97	banding	35		distinct bands in hornfels/skarn interval
JN12018	103.3	banding	35		common banding orientation of well banded hornfels/skarn interval
JN12018	105.2	banding	40		banding in hornfels/skarn
JN12018	108.8	banding	40		thin bands at hornfels/garnet skarn contact
JN12018	114	banding	40		sharp/crisp bands of garnet in garnet rich skarn interval
JN12018	116.9	banding	33		banding in garnet rich skarn unit
JN12018	117.9	veinlet (<10cm)	33		3cm wide calcite along banding in garnet rich skarn
JN12018	118.6	banding	35		banding in garnet rich skarn interval

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	123	bedding	45		bedding of fining upward qtz pebble conglomerate sequence at upper contact of unit
JN12018	125	bedding	48		bedding of fining upward qtz pebble conglomerate sequence (dramatic bedding plane of fine qtz sandstone with coarse qtz pebble conglomerate repeat of succession
JN12018	129.6	sheeted veins	42		sheeted qtz vein set
JN12018	131.2	bedding	26		bedding of qtz sandstone interbed in larger qtz pebble conglomerate sequence
JN12018	137.2	bedding	37		bedding in qtz pebble conglomerate
JN12018	142.7	banding	43		banding in hornfels
JN12018	145	veinlet (<10cm)	33		common orientation of very thin 2mm sized white calcite veinlets
JN12018	146.9	banding	40		banding in hornfels
JN12018	151.2	fracture	29		common orientation of fractures in broken qtz sandstone interval
JN12018	154.6	fracture	20		common orientation of fractures in broken qtz sandstone interval
JN12018	155.4	fracture	29		common orientation of fractures in broken qtz sandstone interval
JN12018	166.3	veinlet (<10cm)	25		local 1cm calcite vein with fine grained pyrite cutting clay rich qtz sandstone interval
JN12018	174.1	fracture	45		common orientation of thin sheeted 20/m pyrite fracture fill
JN12018	174.4	fault plane	35		pyrite polished slickenside surface
JN12018	189.5	veinlet (<10cm)	18		1cm calcite qtz veinlet with minor py in veinlet cutting retrograde skarn

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	191.2	banding	48		hornfels banding (possible bedding)
JN12018	191.9	veinlet (<10cm)	10		dark green chlorite fracture fill set at similar orientation; skarning is replacing hornfels along these planes
JN12018	193	veinlet (<10cm)	20		calcite qtz veinlet with fine grained sulphides
JN12018	194	veinlet (<10cm)	25		thin sheeted pyrite stringers at start of garnet skarn
JN12018	194.2	contact - lithologic	35		upper contact of prograde skarn/hornfels contact
JN12018	196.9	fracture	67		common fracture (with fine grained sulphides) orientation through tan retrograde alteration section
JN12018	197.4	banding	14		pyrite band in sulphide rich portion of retrograde skarn (slickensides with polished pyrite at 5 degrees to core axis)
JN12018	197.8	veinlet (<10cm)	38		very thin hair width pyrite veinlet
JN12018	202.5	veinlet (<10cm)	40		ragged sulphide stringer in tan retrograde skarn
JN12018	203.1	banding	43		upper contact of sulphide/magnetite band
JN12018	206.1	banding	40		magnetite band common orientation in pyroxene skarn
JN12018	206.5	banding	61		magnetite band in pyroxene skarn
JN12018	207.6	veinlet (<10cm)	26		late white calcite veinlets
JN12018	209.8	veinlet (<10cm)	28		magnetite band in skarn interval
JN12018	210.3	banding	48		banding in massive magnetite skarn
JN12018	211.4	sheeted veins	48		sheeted pyrrhotite stringers
JN12018	211.6	banding	55		calc-silicate band in pyrrhotite/magnetite skarn

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	212.2	sheeted veins	58		intense sheeted veins of qtz and more commonly light green actinolite
JN12018	212.5	sheeted veins	55		intense sheeted veins of qtz in altered skarn
JN12018	215.8	banding	40		upper contact of massive magnetite band (somewhat irregular contact but generally 40)
JN12018	215.9	veinlet (<10cm)	35		thin carbonate retrograde skarn veinlet (second carbonate veinlet feeding into 35 degree vein is oriented 20 to core axis)
JN12018	217.4	contact - lithologic	30		lower contact of sulphide rich band in skarn
JN12018	218.1	veinlet (<10cm)	21		1cm qtz calcite and qtz stringer
JN12018	219.7	veinlet (<10cm)	10		0.6cm calcite and pyrite veinlet at low angle to core axis
JN12018	220	fracture	50		magnetite (and hematite) band
JN12018	220.1	fracture	54		common altered envelopes to fractures
JN12018	220.9	fracture	56		common fracture orientation
JN12018	222.1	sheeted veins	52		light green pyroxene/chlorite stringer set
JN12018	227.7	fracture	24		set of sub// alteration fractures with tan retrograde alteration that replaces magnetite bands
JN12018	227.9	fracture	42		common orientation of fractures in prograde magnetite skarn interval
JN12018	228.1	sheeted veins	60		orientation of qtz vein set with native bismuth, bismuthinite, chalcopyrite, molybdenum in qtz
JN12018	228.5	sheeted veins	15		sheeted qtz vein set locally cut by 39 degrees to core axis sheeted qtz vein set

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	232.7	sheeted veins	34		common orientation of sheeted pyrite dominant sulphide veins in retrograde skarn
JN12018	233	sheeted veins	34		common orientation of sheeted sulphide veins
JN12018	236.6	sheeted veins	12		common orientation of low angle sheeted qtz veins which are truncated and offset by higher angle pyrite veinlets (45 to core axis)
JN12018	236.7	fault plane	45		pyritic fracture planes that offset low angle qtz vein set at 12 degrees to core axis
JN12018	237.2	fracture	20		fracture set with common open space
JN12018	237.5	veinlet (<10cm)	48		qtz veinlet in retrograde skarn large interval; vein has fine grained sulphides
JN12018	239.5	sheeted veins	45		common orientation of clear qtz sheeted veins in retrograde skarn interval
JN12018	240.3	sheeted veins	52		qtz vein set common angle
JN12018	240.7	sheeted veins	53		sheeeted qtz vein common angle to core axis
JN12018	240.9	sheeted veins	55		common angle of sheeted qtz veins in retrograde skarn interval
JN12018	242.8	sheeted veins	40		1cm wide qtz vein in clay rich tan coloured retrograde skarn lower contact
JN12018	245	veinlet (<10cm)	25		atypical orientation of white qtz veinlet in prograde skarn interval
JN12018	246.3	sheeted veins	57		common orientation of grey and white qtz veinlets in prograde pyroxene skarn interval

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	247.7	fracture	38		typical orientation of fractures with 1cm alteration envelopes cutting semimassive magnetite bands
JN12018	249.8	banding	58		discontinuous garnet bands in prograde pyroxene skarn interval ??bedding
JN12018	251.6	veinlet (<10cm)	45		1cm wide qtz vein with moly blebs in prograde pyroxene skarn interval
JN12018	253.2	veinlet (<10cm)	46		common orientation of sheeted qtz veins in pyroxene skarn interval
JN12018	254.1	veinlet (<10cm)	45		lower contact of arsenopyrite/pyrite band with 3cm qtz veinlet
JN12018	255	fracture	50		common fracture plane (locally with polished pyrite slickensides) in retrograde skarn interval
JN12018	256	banding	40		upper contact of 9cm wide semimassive pyrite and cpy band in retrograde skarn interval
JN12018	256.6	veinlet (<10cm)	40		upper sharp contact of 2cm qtz veinlet with bismuthinite and cpy/py
JN12018	257.7	sheeted veins	52		qtz veinlet common orientation in retrograde skarn interval
JN12018	262.9	sheeted veins	50		common sheeted vein orientation in QFP; veins are mineralized with bismuthinite and py/cpy
JN12018	265.7	sheeted veins	56		common sheeted qtz vein oritentation
JN12018	267.1	sheeted veins	55		1cm sheeted qtz vein with native bismuth in pyroxene skarn interval
JN12018	267.9	veinlet (<10cm)	58		upper contact of 4cm qtz vein and bismuthinite/cpy/py band and semi-massive zone

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	268.5	veinlet (<10cm)	46		1cm pyrite/bismuthinite/cpy band and qtz veined zone
JN12018	268.8	banding	48		sharrp lower contact of pyritic band in qtz rich interval
JN12018	268.9	banding	74		lower contact of sulphide rich band in qtz veined retrograde skarn interval
JN12018	269	sheeted veins	50		0.4cm white qtz veinlet and 0.6cm pyrite selvage in retrograde skarn/sheeted vein interval
JN12018	269.2	fracture	62		sharp common fracture orientation in sulphide band (py/bismuthinite/cpy)
JN12018	269.9	banding	20		upper edge of 8cm magnetite band
JN12018	270	fracture	64		sharp fracture plane that truncates magnetite band
JN12018	272.6	veinlet (<10cm)	66		ragged thin pyrite stringer in clay altered retrograde skarn interval
JN12018	274.8	contact - lithologic	58		upper contact of magnetite interval in larger retrograde skarn
JN12018	275.2	fracture	25		atypical low angle fracture orientation in magnetite rich skarn
JN12018	277.4	veinlet (<10cm)	55		1.1cm thick calcite vein in magnetite rich retrograde skarn
JN12018	280.4	veinlet (<10cm)	63		qtz/calcite vein with 3mm dark green chlorite selvages and chalcopyrite in magnetite rich prograde skarn interval
JN12018	280.5	veinlet (<10cm)	28		thin late pyrrhotite stringers cutting magnetite band in pyroxene skarn
JN12018	282	veinlet (<10cm)	64		3mm wide molybdenum fracture fill in very clay rich tan retrograde skarn - locally crumbly

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	283	veinlet (<10cm)	38		very thin pyrite stringers in clay rich tan retrograde skarn
JN12018	285.2	bedding	47		?bedding from boudingaged qtz rich beds in clay skarn interval at lower contact of magnetite skarn with hornfels sediments below
JN12018	286.8	banding	40		banding in silicified skarn lower contact with hornfels below
JN12018	287.9	banding	62		banding in hornfels
JN12018	289.5	sheeted veins	30		common orientation of thin qtz sheeted veins in banded hornfels siltstone section
JN12018	293.1	banding	51		banding in hornfels siltstone
JN12018	296	banding	43		common orientation of purple bands in siltstone hornfels; ?bedding
JN12018	298.5	banding	40		banding in hornfels
JN12018	299.7	veinlet (<10cm)	40		qtz stringer in hornfels
JN12018	299.9	banding	50		common banding in hornfels
JN12018	300.2	sheeted veins	56		common orientation of sheeted milky calcite veinlets
JN12018	301	banding	54		banding in hornfels
JN12018	301.7	banding	36		banding in hornfels unit
JN12018	302.1	veinlet (<10cm)	21		lower contact of 9cm wide tourmaline/qtz/pyrite breccia zone/vein
JN12018	304.3	contact - lithologic	26		upper contact of bull white qtz vein
JN12018	304.7	fracture	45		lower contact of white qtz vein - fracture surface with calcite coated slickensides
JN12018	306.2	veinlet (<10cm)	15		upper contact of 1-4cm wide deformed tourmaline qtz breccia zone/vein
JN12018	307	banding	38		banding in hornfels

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12018	307.7	banding	50		banding in hornfels
JN12018	307.9	fracture	47		common fracture orientation
JN12018	308.7	veinlet (<10cm)	40		common orientation of sheeted hair width calcite fracture fill
JN12018	309	veinlet (<10cm)	30		local qtz veinlet with pyrite and pyrrhotite and possible bismuthinite in qtz
JN12018	310.4	bedding	50		sharp fracture surface that corresponds to contact between medium grained qtz sandstone and fine grained siltstone - possible bedding
JN12018	311.5	sheeted veins	35		sheeted qtz vein orientation in hornfels at end of hole
JN12018	311.8	veinlet (<10cm)	48		EOH 312m; upper contact of 8cm wide white qtz vein at end of hole
JN12019	41.2	fracture	71		local common fracture orientation in generally broken qtz pebble conglomerate at top of hole
JN12019	42.2	fracture	6		rusty low angle facture plane which is sub// to 1cm qtz veining in qtz pebble conglomerate
JN12019	42.9	veinlet (<10cm)	14		1cm white qtz vein in rusty qtz pebble conglomerate
JN12019	46.1	fracture	38		local set of tightly spaced sub// rusty fracture set in clay altered qtz pebble conglomerate
JN12019	49.1	veinlet (<10cm)	22		thin pyrite stringers in siltstone interbed in dominantly qtz pebble conglomerate sequence
JN12019	49.8	bedding	30		possible bedding between siltstone and pyritic qtz pebble conglomerate

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12019	50.2	veinlet (<10cm)	18		upper contact of ??>4cm wide qtz vein in pyrtitic silicified qtz pebble conglomerate
JN12019	54.9	fracture	60		local set of intensely rusty sub// fractures in siltstone interbed
JN12019	59.9	veinlet (<10cm)	50		??>1cm wide qtz vein in qtz pebble conglomerate rubble; vein is on edge of 10cm qtz pebble conglomerate piece in ground rubble
JN12019	70.9	banding	79		possible bedding as broken siltstone banding in clay rich interval
JN12019	72.1	banding	72		possible bedding as broken siltstone banding in clay rich interval
JN12019	73.6	banding	74		banding in thinly laminated siltstone above major brecciated fault gouge rich interval
JN12019	74.9	sheeted veins	75		sheeted thin pyrite stringers in siltstone unit (also py stockwork in this interval)
JN12019	77.8	shear plane	23		sharp shearing direction in major gouge rich graphitic pyritic breccia
JN12019	85.8	shear plane	5		sharp contact between 20cm qtz rich siltstone unit and black graphitic fault breccia
JN12019	86.1	banding	54		banding of large raft of siltstone in black graphitic fault breccia zone
JN12019	103.3	banding	40		banding of fine grained magnetite in garnet and clay rich skarn interval
JN12019	105.1	fault plane	45		sharp lower contact of talc clay gouge interval and garnet skarn

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12019	105.5	fracture	50		common fracture orientation and banding in clay rich pyroxene/garnet skarn
JN12019	106.5	veinlet (<10cm)	37		thin pyrite stringer in clay rich skarn interval
JN12019	107.6	banding	48		banding of garnet rich beds in clay rich skarn interval
JN12019	108.1	banding	34		garnet banding in clay rich skarn interal
JN12019	108.9	banding	47		banding in garnet hematitzed skarn interval
JN12019	109.8	fault plane	47		sharp gouge/skarn contact
JN12019	117.5	veinlet (<10cm)	50		pyrite stinger in pyritic garnet clay rich ??retrograde skarn interval
JN12019	121	veinlet (<10cm)	60		local calcite/qtz/pyrite stringer cutting pyroxene skarn
JN12019	122.2	veinlet (<10cm)	53		local calcite/qtz vein with epidote alteration envelope in pyroxene skarn
JN12019	124.8	fracture	9		local fracture in clay rich garnet/chlorite skarn
JN12019	128.4	veinlet (<10cm)	45		local tan clay/carbonate fracture fill with epidote in hematite stained clay rich chlorite/garnet rich skarn
JN12019	135.2	veinlet (<10cm)	45		thin sub// local pyrite stringers in true retrograde skarn interval
JN12019	135.7	veinlet (<10cm)	52		local pyrite veinlet in pyritic retrograde skarn above semimassive pyrite interval starting at 135.9m
JN12019	135.9	contact - lithologic	48		sharp upper contact of massive pyrite band
JN12019	136.5	fracture	54		rusty fracture surface/contact betwee sulphide rich retrograde skarn and limonite/goethite clay gouge rich interval

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12019	137.6	veinlet (<10cm)	43		1mm wide pyrite stringer in pyritic retrograde skarn interval
JN12019	138.3	veinlet (<10cm)	44		1cm wide fine grained pyrite in qtz veinlet in retrograde skarn interval
JN12019	139.1	banding	30		boudinaged milled qtz vein fragment band in clay rich retrograde skarn
JN12019	139.6	sheeted veins	43		local set of closely spaced sheeted thin qtz veins in tan clay altered retrograde skarn
JN12019	141.6	banding	31		upper contact of fine grained pyrite rich band in broken sulphide rich retrograde skarn interval
JN12019	143.5	sheeted veins	76		common orientation of local pyrite fracture fill/stringers in retrograde skarn interval
JN12019	143.9	banding	55		1cm wide garnet band in clay rich retrograde skarn (possible bedding?)
JN12019	144.3	sheeted veins	75		common orientation of thin pyrite sub// stringers/fracture fill in retrograde skarn
JN12019	144.9	veinlet (<10cm)	37		local 3mm pyrite stringer that offsets earlier 2mm pyrite stringer (dextral sense of motion of 4mm offset)
JN12019	145.3	sheeted veins	28		sheeted but boudinaged thin qtz stringers in locally pyritic retrograde skarn
JN12019	147.1	veinlet (<10cm)	1.3		white calcite and lesser qtz veinlet in pyroxene/garnet prograde skarn interval
JN12019	149.9	veinlet (<10cm)	25		2mm white calcite veinlet with 2mm retrograde alteration envelope cutting prograde pyroxene skarn

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12019	151	veinlet (<10cm)	52		band of scheelite (UV lamp tested) and fine grained garnets in silicified pyroxene skarn
JN12019	152.5	fracture	38		fracture with coating of dark green chlorite in prograde pyroxene skarn
JN12019	159.7	sheeted veins	40		thin sheeted qtz veins in massive sulphides
JN12019	159.8	banding	28		band of pyrrhotite with chalcopyrite rims which crosscuts thin qtz sheeted veins in fine grained massive pyrite
JN12019	160.3	veinlet (<10cm)	33		qtz veinlet that crosscuts sheeted pyrite veins
JN12019	160.4	sheeted veins	33		common orientation of sheeted pyrite stringers
JN12019	161.2	banding	33		banding of fine grained pyrite which cross cuts sheeted qtz veins in retrograde skarn
JN12019	161.7	sheeted veins	35		common orientation of sheeted qtz veins
JN12019	162.8	veinlet (<10cm)	38		local multistage qtz vein in retrograde skarn
JN12019	164.7	veinlet (<10cm)	35		calcite after qtz multistage vein in prograde pyroxene skarn
JN12019	166	banding	34		bands of broken garnet in pyroxene skarn
JN12019	166.1	sheeted veins	36		common dark green chlorite veinlets that break up the garnet bands making them look boudinaged
JN12019	166.9	banding	38		dark brown band of garnet in pyroxene skarn
JN12019	168.7	veinlet (<10cm)	38		multistage calcite veinlet with core of bleb of fine grained pyrite and qtz surrounded by calcite ribbons
JN12019	170	banding	35		dark green chlorite banding in prograde skarn

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12019	174.6	banding	43		dark green chlorite banding in prograde skarn
JN12019	177.7	sheeted veins	35		sheeted thin qtz veins in massive sulphide rich area
JN12019	179.4	banding	53		common banding direction of fine grained pyrite bands
JN12019	180.7	banding	30		orientation of ragged pyrrhotite and qtz veining in prograde skarn interval
JN12019	183	veinlet (<10cm)	43		qtz veinlet with pyrrhotite selvages in altered prograde skarn
JN12019	184	veinlet (<10cm)	31		pyrrhotite band in pyroxene skarn
JN12019	186.7	veinlet (<10cm)	35		discontinuous qtz veins in massive pyroxene skarn interval; local hematite staining fractures
JN12019	190.7	vein (>10cm)	41		quartz vein - polymetallic
JN12019	192.5	vein (>10cm)	41		lower contact of 15 cm very nice polymetallic vein
JN12019	194.7	banding	45		pyrite banding within polymetallic quartz vein
JN12019	197.3	veinlet (<10cm)	10		pyrite stringer 1 cm wide
JN12019	197.8	veinlet (<10cm)	43		5 cm wide veinlet of scheelite
JN12019	198.9	fracture	24		pyrite fracture fill
JN12019	199.3	bedding	31		banding within hornfels, possible relic bedding
JN12019	201.6	veinlet (<10cm)	48		sheeted quartz vein with pyrite
JN12019	204	veinlet (<10cm)	35		pyrite stringer
JN12019	204.6	veinlet (<10cm)	26		calcite
JN12019	206.8	veinlet (<10cm)	47		quartz stringer with biotite ribbon in granodiorite
JN12019	207.2	lithologic contact	21		lower contact of granodiorite. Somewhat deformed, non planar
JN12019	207.5	banding	54		banding in hornfels
JN12019	207.6	banding	53		quartz sweat along banding in hornfels

DDH_ID	Depth of Structure (m)	Structure	Angle TCA (alpha)	Angle (beta)	Notes
JN12019	208.6	veinlet (<10cm)	45		3 mm wide arsenopyrite veinlet
JN12019	209.8	veinlet (<10cm)	32		EOH - 210.0 m. Deformed quartz veinlet
JN12019	209.85		18		EOH - 210.0 m. Quartz vein in the silicified hornfels

Appendix 4.1.5 - Veining Interval

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DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12011	22.2	22.21		1	28	yellowish	fine	comb	Calcite				Envelope	very thin py stringer with white calcite envelope up to 1cm wide oriented 28 degrees to core axis
JN12011	27.1	27.15	3	0.2	30	white	fine	sheeted	Calcite				Fractures	3 very thin sheeted calcite stringers oriented 30 degrees to core axis and beta angle 110
JN12011	45.6	46	2	2		white	fine	other	Quartz				Selective	silica flooded deformed qtz veining in interval
JN12011	55.5	62	12	2	20	white	fine	multistage	Calcite					thin calcite, wispy bands 2cm; various angle to core axis, mainly 20*; crosscuts banding in core
JN12011	64	64.1		10	70	white	fine	massive	Calcite					1cm calcite vein conformable to skarn banding, with thin stringers of pyrrhotite within
JN12011	68.8	68.9		4	18	white	medium	multistage	Quartz	Calcite				quartz is the core and calcite occurs as the salvages; microfault
JN12011	69	70.7	3	10	45	white	medium	massive	Calcite					with py and po blebs within
JN12011	86.8	89	10	1		white	fine	massive	Calcite					very thin calcite veins parallel bedding and have various angles
JN12011	119.3	119.31		1	45	brass	fine	massive						1cm py stringer cutting massive fg sulphides
JN12011	123.1	123.5	5		50	dark grey	fine	vuggy	Calcite					subparallel fg py stringers 50* to ca
JN12011	134.4	140.5	3	1		white	medium	drusy	Quartz					1 cm wide qtz veinlets in mineralized skarn rubble locally throughout interval
JN12011	142	145.5	1	2	5	yellowish	very fine	fractured	Clay				Fractures	curvilinear sub// to core axis dull amorphous ?clay
JN12011	147	150	20	2	70	white	fine	sheeted	Calcite					subparallel white calcite stringers 70* to ca up to 20/m
JN12011	150	151.5	40	5	5	dark grey	fine	brecciated	Quartz	Sulphide				braided anastamosing dark grey quartz veinlets with fg sulphides and associated open space; subparallel toca
JN12011	151.5	155.3	10	4	60	white	fine	fractured	Quartz	Sulphide				sheeted qtz veins with fg sulphides locally brecciated
JN12011	155.3	159	7	10	45	white	fine	fractured	Quartz	Sulphide				white sheeted discontinuous qtz veins locally brecciated with sulphides
JN12011	159	169.5	20	6		white	fine	brecciated	Quartz	Sulphide				white qtz flooding/sheeted veins with py/po/cpy questionable bi cutting massive sulphides
JN12011	172.8	175.5	10	2		white	fine	fractured	Quartz	Sulphide				broken massive sulphides with increasing qtz stringers concentration downhole; too broken to measure and bismuthinite observed in qtz
JN12011	175.5	176.9	50	10		white	fine	multistage	Quartz	Sulphide				intense quartz flooding/sheeted qtz veins in massive sulphide interval with bismuthinite noted; core too broken to take measurements
JN12011	180	185	5	5	20	grey	fine	chalcedonic	Quartz	Sulphide				narrow chalcedonic qtz stringers crosscutting an altered possible QFP??
JN12011	186.3	190.6	2	5	50	white	fine	fractured	Quartz	Sulphide				white qtz sx veins crosscutting magnetite skarn
JN12011	190.6	193.8	2	10	65	white	fine	multistage	Quartz	Sulphide				intense sheeted white qtz stringers leading into silicified sediments below this actinolite skarn lowest interval; bismuthinite in qtz

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12011	193.8	200.1	75	7	85	white	fine	multistage	Quartz	Sericite	Other			crazy intense sheeted qtz/scheelite veining plus silicification of hornfeled metaseds between large skarn and intrusive below
JN12011	200.1	202.7	7	10	85	white	fine	sheeted	Quartz	Sulphide				mineralized sheeted veins in intensely silicified footwall to the large skarn
JN12011	202.7	209.8	3	10	65	white	fine	sheeted	Quartz	Sulphide				sheeted qtz veins in a moderately silicified sltst; veins contain scheelite, bismuthinite, moly and f.g. sulphides
JN12011	209.8	211	3	8	40	white	fine	sheeted	Quartz	Sulphide	Scheelite			sheeted qtz veins in the stock with fg py and bismuthinite; veins also have brown biotite and scheelite
JN12011	211	226.5	2	10	20	white	fine	sheeted	Quartz	Sulphide				white qtz stringers sheeted plus various angles with local fg sulpide blebbs
JN12011	226.5	228	4	10	45	white	fine	sheeted	Quartz	Sulphide	Scheelite			planar sheeted mineralized qtz veins of varying density to greater than 280m down hole; veins rich in w and bs
JN12011	228	229.5	7	10	50	white	fine	sheeted	Quartz	Sulphide	Scheelite			very bs rich stringer at 228.9m
JN12011	229.5	233.1	2	6	30	white	fine	sheeted	Quartz	Sulphide	Scheelite			
JN12011	233.1	235	3	50	55	white	fine	sheeted	Quartz	Sulphide	Scheelite			qtz flooded zone with wider mineralized qtz stringers
JN12011	235	243.3	4	6	55	white	fine	sheeted	Quartz	Sulphide	Scheelite			
JN12011	243.3	245.2	10	10	25	white	fine	sheeted	Quartz	Sulphide	Scheelite			tungsten rich qtz flooded vein with bismuthinite and native bismuth; minor po and py
JN12011	245.2	257.8	4	10	35	white	fine	sheeted	Quartz	Sulphide	Scheelite			thin stringers of moly locally plus po blebbs and the usual bs in sheeted qtz veins
JN12011	257.8	262	7	6	60	white	fine	sheeted	Quartz	Sulphide	Scheelite			two sets of sheeted veins cross-cutting each other; Py, bs down centre of local veins
JN12011	262	267.2	6	10	37	white	fine	sheeted	Quartz	Sulphide	Scheelite			increased py mineralization
JN12011	267.2	270.9	3	10	35	white	fine	sheeted	Quartz	Sulphide	Scheelite			Aspy along qtz selvage at 268m
JN12011	270.9	271	1	15	30	white	fine	sheared	Quartz	Sulphide				1.5cm qtz vein at upper contact of shear with py, po, and bs. Qtz grains in sheared breccia possibly from earlier sheeted veins
JN12011	271	275.2	9	15	25	white	fine	sheeted	Quartz	Sulphide	Scheelite			Sheeted qtz veins subparellel to breccia fabric
JN12011	275.2	299.1	2	4	40	white	fine	sheeted	Quartz	Sulphide				Relatively less mineralized interval
JN12011	299.1	300	12	20	25	white	fine	sheeted	Quartz	Sulphide	Scheelite			qtz stringer rich zone above qtz vein; tourmaline veining at the start of the interval
JN12011	300	301	1	1000	25	white	fine	sheeted	Quartz	Sulphide	Scheelite			massive white qtz wit 10% grdr; only thick qtz vein found in hole
JN12011	301	304.9	5	2	30	white	fine	sheeted	Quartz	Sulphide				
JN12011	304.9	305.2	1	40	30	white	fine	sheeted	Quartz	Sulphide				high concentration of bs through vein
JN12011	305.2	323.2	3	10	55	white	fine	sheeted	Quartz	Sulphide				concentration of sheeted veins decreasing down hole
JN12011	323.2	327.3	4	5	40	clear	fine	sheeted	Quartz	Sulphide				clay rich area with broken qtz stringers with py ?fault?
JN12011	327.3	335.6	2	8	25	white	fine	sheeted	Quartz	Sulphide				veins getting thinner than above and less frequent
JN12011	335.6	336.6	1	8	50	white	fine	sheeted	Quartz	Sulphide				clay rich possible fault zone; tournaline along with qtz

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12011	336.6	344.6	4	3	40	white	fine	sheeted	Quartz	Sulphide				moly,bs, and py observed in veins
JN12011	344.6	347.5	2	15	35	white	fine	sheeted	Quartz	Sulphide	Scheelite			py dominant with scheelite along salvages; veins are brittly offset and fg py infilled the fractures
JN12011	347.5	363.7	1	8		white	fine	sheared	Quartz	Sulphide				EOH 363.7m; veins are becoming deformed and at various angles to the core axis and very infrequent compared to above
JN12012	6.2	42.6	1	1	50	white	fine	sheeted	Quartz	Sulphide		chlorite		sheeted white qtz veins with bismuthinite and local dark green chlorite alteration envelopes
JN12012	42.6	43.3	1	0.01	40	white	fine	fractured	Calcite	Sulphide				thin calcite and pyrite veinlets
JN12012	43.3	43.8	10	0.4	50	grey	fine	stockwork	Sulphide	Sulphide				pyrite stringers/veins and stockwork
JN12012	45	45.7	8	0.2		white	fine	other	Calcite					thin calcite veins with hematite alteration envelopes and associated fine grained py stringers locally along calcite vein margins
JN12012	45.7	49	3	0.1		white	fine	other	Calcite					thin calcite wisps at various angle throughout skarn/granodiorite mixed interval
JN12012	49	54.9	3	0.4	50	white	fine	sheeted	Quartz	Sulphide				< 3/m qtz stringer with trace bismuthinite cuts clay altered granodiorite section; zone is crumbly and veins not well preserved
JN12012	54.9	59.8	2	1	55	grey	fine	cockade	Quartz	Sulphide				grey qtz stringers with open space with associated fine grained pyrite cross cut magnetite skarn
JN12012	59.8	70	1	0.6	55	white	fine	sheeted	Quartz					rare qtz veining in this massive px skarn interval yet common calcite/hematite wisps throughout
JN12012	71.2	71.5	6	0.3		grey	fine	multistage	Sulphide	Quartz				abundant pyrite stringers and veins in rubble of silicified granodiorite after 1.2m LOST fault zone
JN12012	71.5	76.9	1	0.2	50	white	fine	sheeted	Quartz	Sulphide	none	none	none	
JN12012	76.9	80.6	12	0.2	55	white	fine	sheeted	Quartz	Sulphide	none	none	none	HW of mineralized retrograde altered zone.
JN12012	80.6	83.3	30	0.5	55	white	fine	sheeted	Quartz	Pyrite	none	none	none	Scheelite-Bismuthinite hosted within selvages of quartz veins. Sub-parallel pyrite-pyrrhotite veinlets throughout the interval.
JN12012	83.3	83.8	9	0.4	50	white	fine	sheeted	Quartz	Sulphide	none	none	none	Sheeted pyrrhotite veins @ 50 degrees TCA, overprinting the quartz veins.
JN12012	83.8	94.9	30	1	50	white	fine	sheeted	Quartz	Scheelite	Bismuthinite	none	none	Sheeted pyrite veins sub-parallel, and also x-cut by quartz veins.
JN12012	94.9	101.6	10	2	55	dark grey	fine	stockwork	Quartz	Scheelite	Sulphides	none	none	Stockwork of clear white and grey quartz, multi-directional quartz veining overprinting each other.
JN12012	101.6	102.1	20	2		grey	fine	stockwork	Quartz	Scheelite	Sulphides	none	none	core is strongly fractured
JN12012	102.1	105	15	0.5		white	fine	stockwork	Quartz	Clay	Sulphide	none	none	completely broken down, clay alteredfault zone
JN12012	105	108.2	15	0.5	45	white	fine	sheared	Quartz	Sulphide	none	none	none	lower conact of intrusion
JN12012	108.2	109.6	14	0.6	30	white	fine	fractured	Quartz	Calcite	Bismuthinite			brittle offsets of sheeted veins giving core a crackle breccia texture
JN12012	109.6	110	3	0.6		white	fine	sheeted	Quartz	Bismuthinite				3 sheeted qtz veins with bs at upper contact of granodiorite dike

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12012	110	112.9	20	0.6	23	white	fine	fractured	Quartz	Calcite	Bismuthinite			brittle offsets of sheeted veins giving core a crackle breccia texture
JN12012	112.9	120.5	1	0.4		white	fine	fractured	Quartz	Bismuthinite				rare dicontinuous fractured qtz stringers with bismuthinite
JN12012	156.3	156.7	1	3	20	white	fine	fractured	Quartz					3cm white qtz vein with sericitic alteration envelope/shearing
JN12013	4.1	12.1	1	1	45	grey	fine	sheeted	Quartz					<1/m sheeted qtz veins with assoc f.g py lesser po in massive prograde px skarn
JN12013	14.2	17.1	25	0.4	45	grey	fine	sheeted	Quartz	Sulphide				intense sheeted qtz +/- sx including bismuthinite in highly broken clay rich interval
JN12013	17.1	17.3	1	20	35	grey	fine	ribbon	Quartz	Sulphide				grey to white qtz vein with thin wisps of bismuthinite in crude bands within qtz vein
JN12013	17.3	18.2	20	0.6	40	grey	fine	sheeted	Quartz	Sulphide				thin sheeted qtz stringers at 40 degrees and a second set at 25 degrees to core axis
JN12013	21	23	15	0.6	25	grey	fine	sheared	Quartz	Sulphide				ground core with sheeted qtz + sx in fragments
JN12013	23.8	26.2	1	0.4	40	white	fine	sheeted	Quartz	Sulphide				thin qtz stringers in sheared altered skarn interval
JN12013	27.8	30.8	1	0.5	43	grey	fine	sheeted	Quartz	Sulphide				rare qtz stringers with f.g. py and po at margins of qtz in massive px skarn
JN12013	30.8	33	3	8	65	white	fine	sheared	Quartz	Sulphide				qtz flooding and qtz bands with cpy, py, po, and moly and bismuthinite elevated on XRF
JN12013	33	60.6	1	2	50	white	fine	sheeted	Quartz	Sulphide				not common yet sheeted qtz veins in massive px skarn
JN12013	60.6	61.5	4	0.5	18	brass	medium	sheeted	Sulphide	Quartz				pyrite and lesser qtz stringers in sheared sulphide rich interval
JN12013	61.5	61.9	1	15		milky	medium	sheared	Calcite	Quartz	Sulphide			pyrite along margins of fractured and broken calcite vein
JN12013	61.9	70.1	1	1	45	white	fine	sheeted	Quartz					rare sheeted qtz stringers in massive px skarn interval
JN12013	70.1	79.9	1	0.4	40	white	fine	sheeted	Quartz	Quartz	Sulphide			rare sheeted qtz veins in white QFP
JN12013	81	88.7	1	0.5	35	white	fine	sheeted	Quartz	Quartz				rare sheeted qtz veins in white QFP with epidote on fractures locally; local bismuthinite in QFP (outside the sheeted qtz vein)
JN12013	88.7	90.8	15	0.1	40	milky	very fine	fractured	Calcite					thin calcite stringers cut zenolith and qtz stringers are sheared and discontinuous
JN12013	90.8	98	2	0.6	28	clear	fine	sheeted	Quartz					sheeted qtz veins in QFP with local moly blebs; vein density increases downhole
JN12013	98	102	15	0.4	35	clear	fine	sheeted	Quartz	Sulphide				zone of intense sheeted qtz veins with native bismuth at 98 & 100.1m plus bismuthinite throughout veins and on fractures
JN12013	102	103.5	4	0.3	40	clear	fine	sheeted	Quartz	Sulphide				sheeted qtz + bismuthinite veins through QFP/granodiorite zenolith interval; qtz veins crosscut both QFP and granodiorite
JN12013	103.5	106.6	12	0.4	42	clear	fine	sheeted	Quartz	Sulphide				zone of intense clear sheeted qtz veins with bismuthinite locally at contact between the QFP and granodiorite 106.6m
JN12013	106.6	115.7	3	1	38	clear	fine	sheeted	Quartz	Sulphide				sheeted qtz veins are slightly thicker than in the QFP and less frequent but with local blebs of both bismuthinite and moly observed

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JN12013	115.7	117.3	1	2	43	grey	fine	sheeted	Quartz	Sulphide				one 2cm wide qtz vein observed at 116.3m in the altered granodiorite between the two small mafic dykes
JN12013	117.3	138.3	2	0.3	40	clear	fine	sheeted	Quartz	Sulphide				lesser sheeted qtz veins than up hole however still minralized with bismutinite and local moly
JN12013	138.3	144	7	0.5	40	clear	fine	sheeted	Quartz	Sulphide				altered interval with intense sheeted qtz veining and associated silicification and sericite around veins; sx dominated by trace bismuthinite and rare moly
JN12013	144	162	2	0.4	38	white	fine	sheeted	Quartz	Sulphide				EOH 162m; end of hole has decreased concentration of sheeted qtz veins however vein at 161.4 is mineralized with bismuthinite
JN12014	4.6	17.4	2	0.5	50	clear	fine	sheeted	Quartz					1-2/m 0.5cm wide clear qtz sheeted veins 50 degrees to core axis in px skarn unit
JN12014	17.4	22.5	5	0.4	50	clear	fine	sheeted	Quartz	Chlorite				silicified zone with discontinuous sheeted qtz stringers
JN12014	22.5	23.5	13	0.4	55	white	fine	sheeted	Quartz	Calcite				zone of intense sheeted white qtz veins (no sx observed in veins)
JN12014	23.5	28.5	4	0.5	53	white	fine	sheeted	Quartz					common white qtz veins with local chlorite along vein selvages
JN12014	28.5	29.5	20	0.1		white	fine	net texture	Calcite					calcite network with associated pyrrhotite; interval highly deformed
JN12014	29.5	41.5	2	0.2	45	white	fine	sheeted	Quartz					sheeted white qtz veins
JN12014	52.9	60	1	0.3	50	clear	fine	sheeted	Quartz					rare sheeted qtz veins in massive pyroxene skarn interval
JN12014	60	63	14	0.3		white	fine	sheeted	Quartz					intense sheeted and non sheeted qtz stringers at HW to qtz stockwork below
JN12014	63	67.3	50	1		white	fine	stockwork	Quartz					qtz stockwork zone plus sheeted qtz veins at 30 degrees to core axis - no clear timing relationships obseved between stockwork and sheeted vein sets
JN12014	67.3	68.8	16	1		white	fine	stockwork	Quartz					qtz stockwork zone in hornfels metaseds at HW to granodiorite
JN12014	68.8	77.6	22	1.1		white	fine	stockwork	Quartz					intense qtz stockwork in variably clay altered granodiorite with intense concentration of blebs of moly in the qtz especially between 74.5-75.3m
JN12014	77.6	107.5	25	0.8		white	fine	stockwork	Quartz					continued qtz stockwork with rare sx observed (native bismuth at 80.2m) and sets of sheeted veins also exist but also the stockwork veins as well
JN12014	107.5	108	30	1.5		clear	fine	stockwork	Quartz					zone of intense qtz flooding and thicker qtz stockwork, trace fine grained sx in qtz
JN12014	108	117.3	18	0.8		white	fine	stockwork	Quartz					continued sheeted qtz veins and qtz stockwork through variably clay altered granodiorite
JN12014	117.3	117.6	1	30	50	white	fine	ribbon	Quartz					bismuthinite (and lesser moly and py) in thin ribbons within the qtz vein
JN12014	117.6	125	14	0.9	40	white	fine	sheeted	Quartz					more sheeted qtz veins than stockwork as described above yet local various angles to core axis
JN12014	125	131.5	6	1	7	clear	fine	fractured	Quartz					sub// set of sheeted but deformed ??early vein set of qtz 5-7 degree to core axis

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JN12014	131.5	153.6	7	0.8	45	white	fine	sheeted	Quartz					5-10/m sheeted qtz veins cut fresher looking granodiorite; veins are semiparallel but generally 45 degrees to core axis
JN12014	153.6	171.6	8	0.8	40	clear	fine	sheeted	Quartz					8-12/m sheeted qtz veins cut biotite granodiorite; common dry fractures at similar orientation as well
JN12014	171.6	176	5	0.3	50	grey	fine	multistage	Sulphide	Calcite				very fine grained pyrite fracture fil associated with white calcite veinlets on HW of gouge fault
JN12014	176	187.2	16	0.2	45	clear	fine	sheeted	Quartz					sheeted qtz veins and dry fractures with alteration envelopes
JN12014	187.2	187.5	2	3	32	white	fine	sheeted	Quartz					visible gold (VG) with bismuthinite in sheeted qtz stringers!
JN12014	187.5	190.2	6	0.6		white	fine	sheared	Quartz					zone of local sheeted qtz veins and deformed py stringers in sheared portions of granodiorite
JN12014	190.2	190.9	9	1.3		white	fine	sheeted	Quartz					bismuthinite rich qtz stringers at various angle to core axis
JN12014	190.9	194.3	7	0.4		white	fine	sheeted	Quartz					zone of sheeted qtz veins with local bismuthinite
JN12014	194.3	194.6	2	1.9	45	grey	fine	sheeted	Quartz					grey sheeted qtz veins adjacent to larger qtz veins below; bismuthinite in hair width fractures in qtz
JN12014	194.6	194.9	1	30	55	grey	fine	fractured	Quartz					bismuthinite rich qtz vein with 1cm brecciated lower contact (with fine grained bismuthinite/lead/tungsten says XRF)
JN12014	194.9	196.6	11	1	30	white	fine	fractured	Quartz					very sheared and locally offset discontinuous white qtz stringers; common pyrite stringers throughout
JN12014	196.6	196.9	1	30	25	white	fine	fractured	Quartz					"sexy vein" white bismuthinite rich qtz vein
JN12014	196.9	213.5	4	2		white	fine	sheared	Quartz					rare tiny blebs of bismuthinite in sheared and discontinuous qtz veins locally sub// to core axis
JN12014	213.5	213.8	2	3		white	fine	sheeted	Quartz					sheeted qtz veins with spec of visible gold noted on surface of core but fell off before sampling (see detailed dinolite photos)
JN12014	213.8	217	4	2		white	fine	fractured	Quartz					shear zone with fractured qtz veins and blebs of moly common
JN12014	259.2	259.3	1	7	47	white	fine	sheared	Calcite	Quartz				foliform qtz calcite vein
JN12014	270.1	270.3	3	2		white	fine	sheared	Quartz	Calcite				two foliform qtz and minor calcite foliform sheared veins
JN12014	278.1	278.4	1	20	47	white	fine	sheared	Quartz					20cm white qtz vein with clay gouge contacts contains fine grained stylolitic py/aspy stringers throughout vein
JN12014	286	286.7	3	8		white	fine	sheared	Quartz					highly deformed qtz veins with thin stylolites of very fine grained py - ?foliform qtz sweats that are discontinous and highly strained
JN12014	289.3	289.7	5	4	63	white	fine	sheared	Quartz					EOH 297m; probable foliform deformed qtz sweats with thin EOH 297m; stylolitic fractures filled with very fine grained pyrite
JN12015	3.3	12	1	1	55	grey	fine	chalcedonic	Quartz			clay	Envelope	Clay alteration of Feldspar clasts within quartz pebble conglomerate. Possibly alteration from veining or contact metamorphism from the intrusion.
JN12015	12	12.5	5	0.5	30	greyish	fine-medium	crackle	Quartz					Quartz-pyrite-arsenopyrite crackle veins within quartz pebble conglomerate. Highly fractured interval.
JN12015	12.5	16.3	1	2	55	white	fine	other	Quartz					

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JN12015	16.5	18	1	5	55	greyish	fine-medium	multistage	Quartz	Chlorite		silica	Envelope	Smokey grey white quartz which is cross cut by microveinlets of fine grained grey quartz. Chlorite and pyrite clots occur through the veins.
JN12016	13.7	14	1	2.5	18	white	fine	fractured	Quartz					fractured 3cm qtz vein with bismuthinite and pyrite
JN12016	26.4	26.6	1	3	32	brownish	medium	multistage	Sulphide	Quartz				pyrite and sphalerite with qtz veinlet along low angle shear
JN12016	26.6	50.6	2	0.4	30	clear	fine	sheeted	Quartz					discontinuous clear qtz veinlets throughout px skarn interval
JN12016	50.6	56	7	0.4	32	white	fine	sheeted	Quartz					white and clear sheeted qtz veins (and crosscutting sets as well) in retrograde skarn interval
JN12016	61.2	62.6	9	0.5	20	white	fine	sheared	Quartz	Calcite				white sheeted thin veins and dark grey py sx fracture cutting retrograde skarn interval
JN12016	62.6	70.1	14	0.7	12	white	medium	brecciated	Calcite	Quartz				white braided calcite veins sub// to core axis with blebs of coarse grained pyrrhotite
JN12016	70.1	76.2	11	0.2	30	white	fine	sheeted	Quartz					thin white sheeted qtz veins
JN12016	76.2	89.4	13	0.5		clear	fine	sheeted	Quartz					clear qtz veins with scheelite and blebs of bismuthinite
JN12016	89.4	91.6	12	0.2	18	grey	fine-medium	sheeted	Quartz	Sulphide				dusty grey vugged quartz veins with drusy quartz and euhedral pyrite in vugs.
JN12016	91.6	94.8	5	0.1	30	grey	fine	sheeted	Quartz					grey white quartz veinswith trace pyrite min within retrograde skarn.
JN12016	94.8	95.6	20	0.2	33	brown	fine	stockwork	Limonite					rusty brown limonitic veinlets x-cutting oxidized retrograde skarn.
JN12016	95.6	104.7	2	0.5	40	white	fine	sheeted	Quartz					white quartz, veins hosted within retorgrade skarn.
JN12016	104.7	105.5	1	0.7	42	grey	fine-medium	brecciated	Quartz	Sulphide	Ankerite			grey white quartz-ankerite vein with 2 pinprick sights of VG @ 105 meters. Pyrite, Pyrrhotite, Bismuthinite, Scheelite, Chalcopyrite occur within the vein. Multi-generational brecciated quartz vein.
JN12016	105.5	106.3	1	0.8	43	grey	fine	laminated	Quartz	Sulphide				smokey grey quartz. Bismuthinite laminations through out the vein parallel to vein contacts.
JN12016	106.3	107.3	1	1	35	white-grey	fine	brecciated	Quartz	Ankerite	Sulphide			grey white brecciated quartz-ankerite vein with pyrite, pyrrhotite, bismuthinite, scheelite, chalcopyrite.
JN12016	107.3	110.9	5	0.3	40	grey	fine	sheeted	Quartz	Sulphide				white to dusty grey sheeted quartz veinlets within retrograde skarn.
JN12016	110.9	112.6	5	2	22	white	fine	stockwork	Quartz	Sulphide	Amnkerite			White quartz stockwork veining host to coarse grained pyrite @ HW contact. In part vuggy @ HW contact. Trace molybdenite disseminated within the quartz veining @ FW contact. Veins hosted in retrograde skarn.
JN12016	112.6	118.4	10	0.4		white	fine	fractured	Quartz	Calcite				stockwork zone of thin qtz (minor calcite) veins; qtz veins contain elevated zn,cu, sb, hg, bs, moly and w; upper contact of granodiorite
JN12016	118.4	132	10	0.6		white	fine		Quartz					common coarse moly and lesser bismuthinite in qtz veins cutting granodiorite; silicification around qtz veining
JN12016	132	132.5												fault zone with 6mm qtz fragments in decomposed granodiorite

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JN12016	132.5	133.6	4	3	60	white	fine	multistage	Quartz					4 white qtz veins with common bismuthinite and moly (pb XRF)
JN12016	133.6	137.6	3	0.8		white	fine	sheared	Quartz					variably clay altered and silicified granodiorite with po and py in discontinuous qtz veins
JN12016	137.6	169.8	3	0.5	20	white	fine	stockwork	Quartz	Calcite	Sulphide			clay altered +/- silicified granodiorite hosting sheeted and stock work quartz veining. The veins range in thickness from 0.1-1.5 cm in thickness and range from 5-50 degrees TCA. In places the veins are vugged, with mm scale drusy quartz xls. Mineralization occurs @ vein contacts.
JN12016	174.4	183.5	15	0.8	35	dark grey	fine	sheared	Sulphide	Quartz				sheared clay rich granodiorite with abundant sub// py/po/bis/moly fracture-fill/brecciated zones/qtz veining
JN12016	183.5	195	10	0.3	45	white	fine	sheeted	Quartz	Sulphide				sheeted qtz veins and or sub// py/po fracture fill
JN12016	195	195.3	3	1.3	45	white	fine	fractured	Quartz	Sericite				zone of intense qtz veining with blebs of moly in qtz
JN12016	198.6	203.2	10	0.1	30	grey	fine	fractured	Quartz	Biotite	Sulphide			thin fractures within intensely clay altered granodiorite; 25-30 and 65-75 degrees to core axis
JN12016	203.2	203.4	2	4	40	dark grey	fine-medium	brecciated	Biotite	Quartz	Sulphide			shear zone with two 4cm brecciated qtz veins with pyrite 2297 Zn 477 W by XRF
JN12016	203.4	214.7	3	0.5	30	grey white	fine	sheeted	Quartz	Calcite	Sulphide			zone of common 30, 45, and 65 degree qtz veins with sericite selvages
JN12016	214.9	215.9	1	30	35	dark grey	fine	brecciated	Quartz	Biotite	Sulphide			shear zone of qtz veining in part vuggy with very fine grained py in matrix of veins; grey blue colour possible fg sx
JN12016	216.4	220	2	0.5	20	grey	fine	fractured	Sulphide	Quartz				moly and py fractures within granodiorite and py diss in granodiorite
JN12016	220	220.1	1	9	48	white grey	fine	ribbon	Quartz	Sulphide	Sericite			9cm qtz vein with py moly and red/brown sphalerite in qtz ribbons and concentrated at vein contacts
JN12016	220.1	230.9	2	0.5	35	white	fine	sheeted	Quartz	Sulphide				2/m sheeted qtz veins cut clay altered granodiorite; in part vugged; 25-30 degrees to core axis
JN12016	234.9	235.8	4	2	40	grey blue	fine	brecciated	Quartz	Biotite	Sulphide			common brecciated qtz/biotite with euhedral py in dark grey blue siliceous matrix and little moly
JN12016	235.8	249.8	3	0.3		grey white	fine	sheeted	Quartz	Biotite	Sulphide			25-54 degrees to core axis 3mm qtz/biotite/pyrite veins (trace moly)
JN12016	249.8	249.9	1	3	32	grey blue	fine	ribbon	Quartz	Sulphide				bismuthinite as fg diss forming ribbons within qtz; vein contacts are vuggy
JN12016	249.9	272.1	1	0.2	25	grey	fine	sheeted	Sulphide	Quartz	Biotite			common thin qtz veins that are hosted in small shear zones within granodiortite
JN12016	272.1	273.8	3	10		grey blue	fine	ribbon	Quartz	Sulphide	Calcite			brecciated and ribboned qtz sx +/- calcite veins
JN12016	273.8	289.1	1	0.5	40	grey	fine	sheeted	Quartz	Calcite	Sulphide			thin qtz sheeted veins with trace py, bismuthinite and moly ??scheelite, not lamped
JN12016	289.1	293.9	2	10	25	greyish	fine	fractured	Quartz	Sulphide				low angle to core axis qtz veins with moly and 0.05% pyrite (and local calcite)
JN12016	293.9	300	3	1	40	white	fine	sheeted	Quartz	Sulphide	Sericite			EOH 300m; sheeted white qtz stringers with pyrite, pyrrhotite and rare moly

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12017	17	27	3	0.2		white	fine	fractured	Calcite					common very thin white calcite veinlets at various angles to core axis
JN12017	39	39.2	8	0.4	15	clear	very fine	sheeted	Quartz					series of en echelon qtz tension gashes oriented 15 degrees to core axis
JN12017	63.2	64.7	9	1		white	coarse	stockwork	Calcite					zone of coarse white calcite strockwork stringers up to 2cm wide at various angles to core axis plus sub// to skarn garnet banding 30 degrees to core axis
JN12017	64.7	71	10	0.2		dark green	very fine	sheeted	Chlorite	Calcite				very thin hair width deformed calcite veinlets at various angles to core axis; common sheeted dark green chlorite very thin stringers cut interval at 35 degrees to core axis
JN12017	97	100.2	2	0.8	40	white	coarse	sheeted	Calcite					coarse calcite veins up to 3cm wide sub// banding in garnet skarn
JN12017	100.2	100.8	24	0.4	45	white	coarse	sheeted	Calcite					concentrated calcite veinlets in zone of tan coloured retrograde skarn
JN12017	100.8	108.7	2	0.3	35	white	coarse	sheeted	Calcite					coarse calcite veinlets up to 1cm wide in garnet skarn interval
JN12017	138	138.5	3	1		grey	fine	veinlets	Quartz					quartz veins are 35-40 degrees TCA. Fractured veins within quartz pebble conglomerate
JN12017	158.9	159.2	4	1		grey	fine		Quartz					EOH @ 171.0 meters. Hole Abandoned. Quartz veins are strongly fractured, rare pyrite. Quartz vein fragments are common across the interval.
JN12018	41.1	42	7	0.4		grey	fine	FRACTURED	Quartz					broken qtz sandstone interval that is partially ground core so qtz vein rubble observed
JN12018	42	43	20	1		grey	fine	FRACTURED	Quartz					larger more concentrated qtz vein material in ground qtz sandstone host; vein fragments up to 5cm across - very poor core recovery and 1.8m LOST below this interval -??lost vein
JN12018	44.8	46.7	8	0.6		grey	fine	FRACTURED	Quartz					qtz stockwork zone in clay rich qtz sandstone
JN12018	67	68	11	0.8		white	medium	fractured	Calcite					zone of intense calcite veining at various angles to the core axis but dominantly 45 degrees to core axis
JN12018	76.8	81.1	30	0.1		white	fine	fractured	Calcite					common irregular shaped white calcite veins throughout and locally coating fracture surfaces
JN12018	90.4	121.8	12	0.3		white	medium	drusy	Calcite					common thin calcite stringers throughout interval at various angles to core axis
JN12018	142.5	150.5	15			white	fine	fractured	Calcite					common locally sheeted sets and irregular cross cutting bands in hornfels thin calcite veinlets
JN12018	155	157.5	4	3		white	fine	fractured	Quartz	Sulphide				zone of thick irregular oriented qtz veins with common patches of green sericite and trace pyrrhotite and possible bismuthinite observed
JN12018	157.5	163	3	0.5		white	fine	fractured	Quartz					zone of intense silicification with rare qtz vein - more of a zone of qtz flooding
JN12018	167.4	170.2	25	0.1		milky	medium	fractured	Calcite					intense network of calcite and clay fracture fill at various angles to core axis

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12018	170.2	171	7	8		white	fine	fractured	Quartz	Sulphide				qtz vein rubble in washed core with very thin dark grey sulphide blemishes in qtz vein fragments
JN12018	172.1	187.1	10	1		white	fine	fractured	Quartz	Sulphide				common white qtz vein rubble in washed and highly broken clay rich qtz pebble conglomerate; common py on fractures
JN12018	187.5	195	12	0.3		milky	medium	fractured	Calcite	Quartz				common calcite and lesser qtz veinlets at various angles to core axis
JN12018	228	230	27	0.9	40	white	fine	fractured	Quartz	Sulphide				zone of intense contration of qtz sheeted and low angle set of sheeted qtz veinlets in retrograde skarn
JN12018	230	231	3	2		white	fine	fractured	Quartz	Sulphide				sulphide rich zone with thicker qtz veins with noted cpy and moly in qtz in pyrite and lesser magnetite stringers in retrograde skarn
JN12018	231	238.7	7	0.3	34	white	fine	fractured	Quartz	Sulphide				retrograde skarn cut by deformed sheeted qtz stringers
JN12018	238.7	241.6	34	0.9	54	white	fine	fractured	Quartz	Sulphide				zone of intense qtz sheeted veins in retrograde skarn
JN12018	241.6	244	4	2	58	white	fine	fractured	Quartz	Sulphide				thicker and less sheeted qtz veins in retrograde skarn than above interval
JN12018	244.6	247	13	0.3	47	grey	fine	fractured	Quartz					zone of thin sheeted qtz veins in prograde skarn with magnetite
JN12018	247	250	2	0.6		white	fine	fractured	Quartz					thin qtz stringers in prograde skarn
JN12018	250	254	7	0.8	45	white	fine	fractured	Quartz					sheeted and qtz veins at various angles in prograde skarn interval
JN12018	254	257.7	12	0.6		white	fine	fractured	Quartz	Sulphide				retrograde skarn with sheeted and stockwork of qtz veins with aspy/py bands and bismuthinite and cpy noted
JN12018	257.7	260	3	0.3	48	white	fine	fractured	Quartz					clay rich retrograde skarn with dark grey sulphides coating fractures and local thin qtz veins
JN12018	260	262.6	17	0.2	41	white	fine	fractured	Quartz	Calcite				prograde garnet rich interval with thin qtz and lesser calcite veinlets
JN12018	262.6	264.9	38	0.2	50	white	fine	fractured	Quartz					sheeted qtz veins in QFP with aspy/py/bismuthinite and cpy noted in qtz plus moly blebs
JN12018	264.9	265.8	14	0.3	45	white	fine	fractured	Quartz					clay rich retrograde skarn with common sheeted thin qtz veins and trace sx in qtz
JN12018	276.6	281	4	1	55	white	fine	fractured	Quartz	Calcite				magnetite rich zone of prograde pyroxene skarn; veins locally have dark green chlorite selvages
JN12018	281	284.5	7	0.1	38	grey	fine	fractured	Sulphide	Quartz				molybdenum stringers and fine grained pyrite veinlets and local very thin grey qtz veinlets preserved in clay rich retrograde skarn interval
JN12018	285.4	300	16	0.3	30	grey	fine	sheared	Quartz					common thin deformed qtz stringers in hornfels; concentration decreases downhole; common brittle micro offsets of veinlets (local dextral sense of motion on offset and shearing)
JN12018	300	302.7	19	0.2	60	milky	medium	multistage	Calcite	Quartz				zone of intense milky white calcite after qtz sheeted veins and local tourmaline flooding around qtz fragments in a crude tourmaline breccia/vein between 301.9-302m; common f.g. pyrite in veinlets and py stringers

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12018	302.7	304.3	22	0.1	53	milky	fine	multistage	Calcite	Quartz				sheeted calcite and thin qtz stringers plus irregular hair width calcite veinlets
JN12018	304.3	304.7	1	30	26	white	fine	bull	Quartz					large bull white qtz vein with two 3cm2 fragments of wall rock in the vein
JN12018	304.7	306.1	18	0.1	55	white	fine	fractured	Calcite	Quartz				sheeted hair width calcite and lesser qtz veinlets - locally discontinuous
JN12018	306.1	307	1	4	15	black	very fine	brecciated	Tourmaline	Quartz	Biotite			irregular shaped tourmaline flooded area around qtz fragments (with local biotite alteration) running down core axis
JN12018	307	311.8	7	1	58	white	fine	fractured	Quartz					local discontinuous qtz veins and thiner sheeted qtz vein sets overprinted by hair width calcite veinlets; py/po noted in vein at 309m
JN12018	311.8	312	1	9	66	white	fine	fractured	Quartz					EOH 312m; 9cm wide qtz vein with scheelite noted with UV lamp near end of deep hole
JN12019	39.5	45	6	1		white	fine	fractured	Quartz	Limonite	Sulphide			common qtz veins at various angles to core axis cutting rusty fractured qtz pebble conglomerate (and siltstone) units with limonite and pyrite blebs
JN12019	50.2	50.8	1	4	14	white	fine	fractured	Quartz	Sulphide				low angle qtz veinlet cutting silicified pyrititic qtz pebble conglomerate
JN12019	50.8	52.5	1	3		white	fine	fractured	Quartz	Sulphide				broken core with local 3cm qtz veins
JN12019	59.7	63.3	2	9		white	fine	fractured	Quartz	Sulphide				LOST/CAVED qtz pebble conglomerate section with >9cm wide qtz vein fragments with blebs of moly and pyrite/chalcopyrite observed....
JN12019	118.8	122.5	4	0.1		milky	fine	fractured	Calcite	Quartz				very thin irregular shaped calcite(lesser qtz) veinlets cutting competent skarn interval in major clay rich part of drill hole where veins are not obsered
JN12019	133.8	133.4	8	0.2		milky	fine	fractured	Calcite	Quartz	Sulphide			thin calcite and qtz veinlets with minor fine grained pyrite and hematite alteration envelopes at various angles to core axis
JN12019	137.5	146	24	0.2	55	white	fine	boudinage	Quartz	Sulphide				very thin sheeted qtz veinlets within retrograde skarn interval; fine grained bismuthinite observed in veins after cutting core
JN12019	146	147.6	5	0.7		milky	fine	fractured	Calcite	Quartz	Sulphide			ragged calcite veinlets with local qtz fragments within core of calcite veinlet and trace pyrrhotite and pyrite in veins
JN12019	149.4	156	6	0.4		milky	fine	fractured	Calcite	Quartz	Sulphide			irregular calcite after qtz veinlets in silicified prograde pyroxene skarn - multi-generation of calcite veinlets at various angles to core axis
JN12019	158.3	159.4	7	0.2	45	dark grey	fine	fractured	Quartz	Sulphide				dark grey very fine grained qtz veinlets throughout sulphide rich zone
JN12019	159	160.5	43	0.1	33	white	fine	chalcedonic	Quartz	Sulphide				sheeted dark grey and white qtz and fine grained pyrite stringers
JN12019	160.5	163.5	28	0.2	35	white	fine	fractured	Quartz	Sulphide				sheeted thin qtz veins in retrograde skarn interval
JN12019	164.4	173	3	1.2	38	milky	medium	multistage	Calcite	Quartz	Sulphide			thick less common calcite veins with associated fine grained pyrite alteration envelopes
JN12019	174.1	174.7	20	0.1	43	white	fine	sheeted	Calcite	Chlorite				

DDH ID	From(m)	To(m)	Density(/m)	Width(cm)	Angle	Colour	Grain Size	Texture	Mineralogy 1	Mineralogy 2	Mineralogy 3	Alt1 Type	Alt Setting	Notes
JN12019	175	179.9	25	0.2	35	white	fine	sheeted	Quartz	Sulphide				Sheeted quartz veins in retrograde skarn and massive sulphide interval.
JN12019	179.9	184.1	9	0.5	43	white	fine	sheeted	Quartz	Pyrrhotite	Arsenopyrite			Sulphides and quartz veins/veinlets are discontinuous.
JN12019	184.1	190.6	4	0.4	53	white	fine	sheeted	Quartz					Discontinuous sheeted quartz veins, in places parallel to sulphide veinlets.
JN12019	190.6	194.8	7	2	41	milky white	fine	sheeted	Quartz	Sulphides				Sheeted vein system, veins range in size from 0.5 - 30 cm in width, but average 2.0 cm. Veins are host to coarse grained pyrrhotite, pyrite, chalcopyrite, scheelite, sphalerite, arsenopyrite, native bismuth, bismuthinite.
JN12019	198.3	207.2	10	0.3		white	fine	fractured	Quartz	Scheelite				Veins occur within granodiorite and hornfels. There are sheeted veins and late fracture fill veinlets. Pyrite, Molybdenite, and Scheelite occur within the veins.
JN12019	207.2	210	8	0.2		white	fine	fractured	Quartz					Veins occur within hornfels sediments. Trace molybdenite, arsenopyrite, bismuthinite within the quartz veins.

Appendix 4.1.6 - Drill Collar Information

31-Oct-12

Hole Number	Length (m)	Azimuth (Deg)	Dip (Deg)	Easting	Northing	Accuracy (m)	Elevation (m)	Location Method	Located By	Location Date	Hole Status	Start Date	Finish Date
JN12011	363.3	130	-45	546284.111	6839640.647	0.7	1438.364	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	23/07/2012	29/07/2012
JN12012	157.5	80	-45	546734.215	6839430.676	0.8	1430.012	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	29/07/2012	01/08/2012
JN12013	162	260	-45	546656.558	6839429.038	0.6	1435.03	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	01/08/2012	03/08/2012
JN12014	294	80	-50	546662.541	6839429.438	1.1	1434.084	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	04/08/2012	07/08/2012
JN12015	21	80	-45	546338.54	6839547.248	5.8	1438.969	DGPS-COR	Jo van Randen	21/09/2012	ABANDONED	07/08/2012	08/08/2012
JN12016	300	270	-46	546559.391	6839484.664	0.5	1432.862	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	08/08/2012	12/08/2012
JN12017	171	80	-60	546284.126	6839641.352	0.9	1439.631	DGPS-COR	Jo van Randen	21/09/2012	ABANDONED	07/09/2012	11/09/2012
JN12018	312	80	-53	546284.126	6839641.352	0.9	1439.631	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	11/09/2012	15/09/2012
JN12019	210	80	-55	546296.537	6839504.398	0.6	1465.537	DGPS-COR	Jo van Randen	21/09/2012	COMPLETE	16/09/2012	23/09/2012

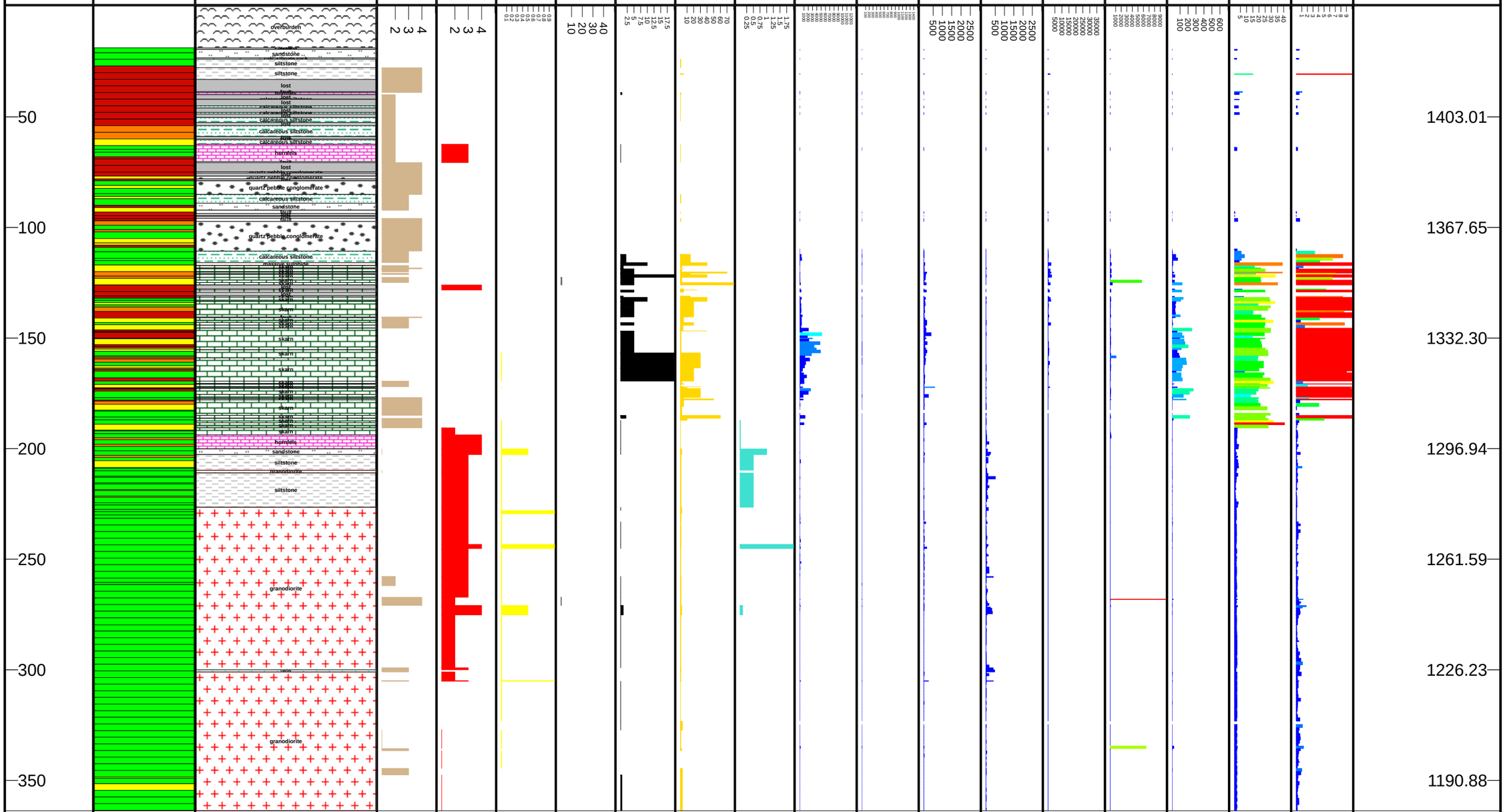
Appendix 4.1.7 - Major Shear Zones

30-Oct-12

Hole Number	From(m)	To(m)	Width(m)	Angle (to CA)	Ductility	Note
JN12014	188.3	189.1	0.8	40	Ductile	sheared section of clay and sericite altered granodiorite near VG in qtz stringer
JN12014	211.5	217	5.5	55	Transitional	sheared lower contact of clay and sericite altered mineralized granodiorite with retrograde skarn interval
JN12016	76.5	85.5	9		Transitional	Shearing within friable carbonate-clay altered retrograde skarn yields zones of intense clay alteration/core loss. Orientation unknown.
JN12016	96.5	104.2	7.7	0	Transitional	Shearing within friable carbonate-clay altered retrograde skarn.
JN12016	177.2	183.5	6.3		Transitional	sheared clay altered granodiorite with dark grey 1-7cm sub// zones of py, po, with qtz vein breccias and local bismuthinite & moly observed
JN12016	251.1	255	3.9		Brittle	EOH 300m; friable clay gouge where clay altered granodiorite has been locally sheared ?weak fault?

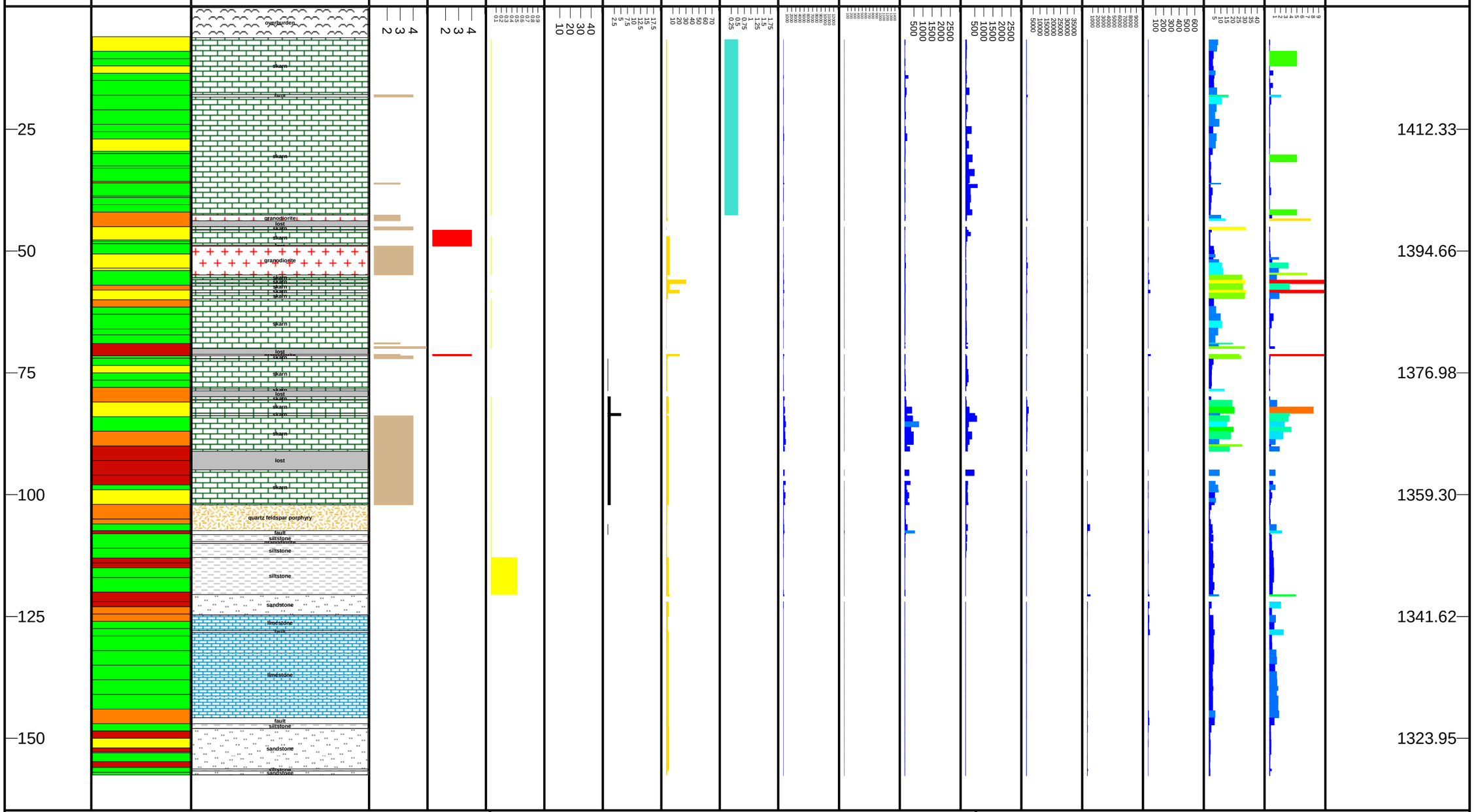
4.2 – Diamond Drill Hole Strip Logs

Company: Aben Resources Ltd.	Project: Justin	Start Date: 7/23/2012	End Date: 7/29/2012
Hole Name :JN12011	Hole Length :363.70	Azimuth(Deg) :130	Dip(Deg) :-45
Easting :546284.111	Northing :6839640.647	Elevation(m) :1438.364	Accuracy(m) :0.7
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



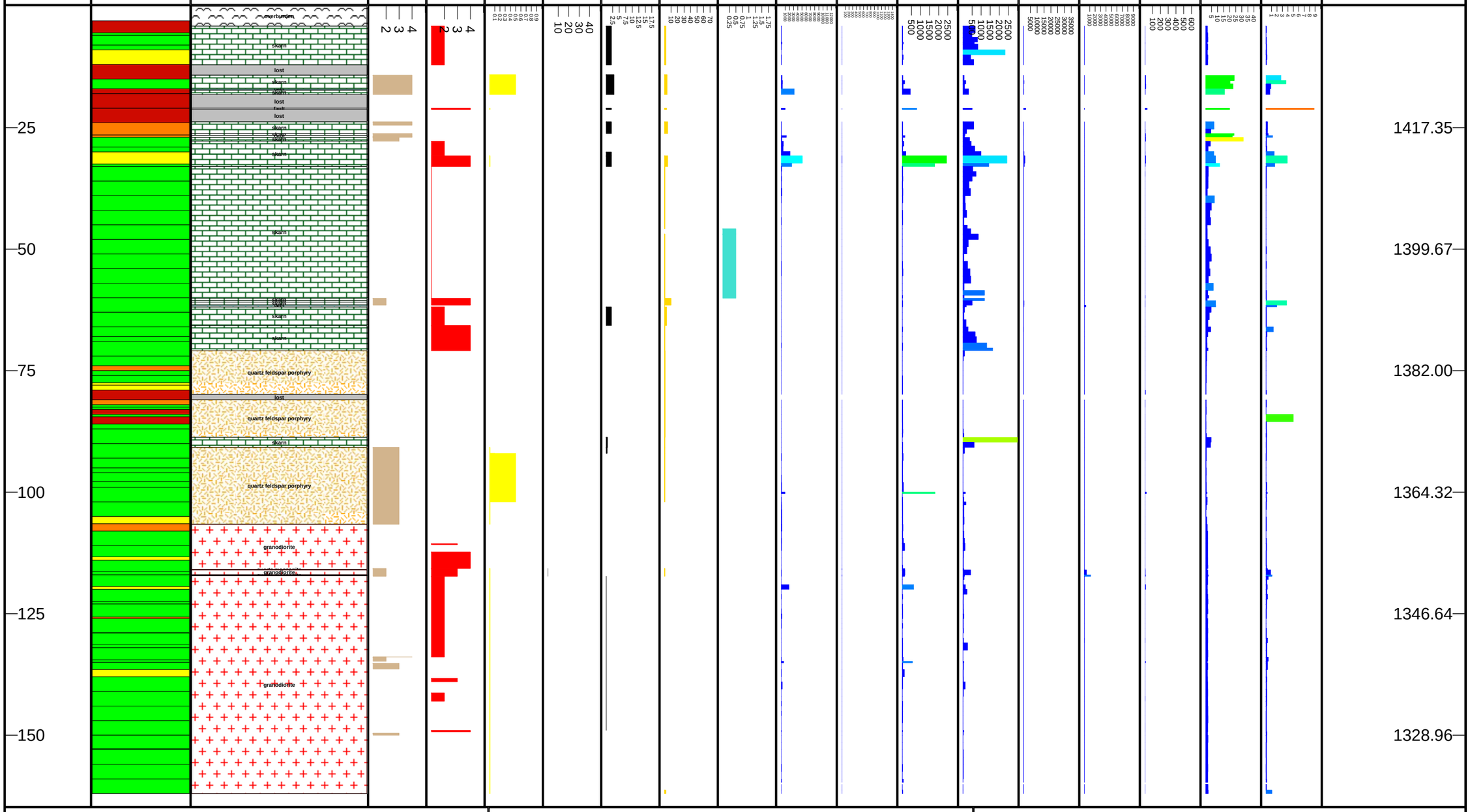
Scale 1:1800	11/28/12	10:07:21

Company: Aben Resources Ltd.	Project: Justin	Start Date: 7/29/2012	End Date: 8/01/2012
Hole Name :JN12012	Hole Length :250.00	Azimuth(Deg) :80	Dip(Deg) :-45
Easting :546734.215	Northing :6839430.676	Elevation(m) :1430.012	Accuracy(m) :0.8
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



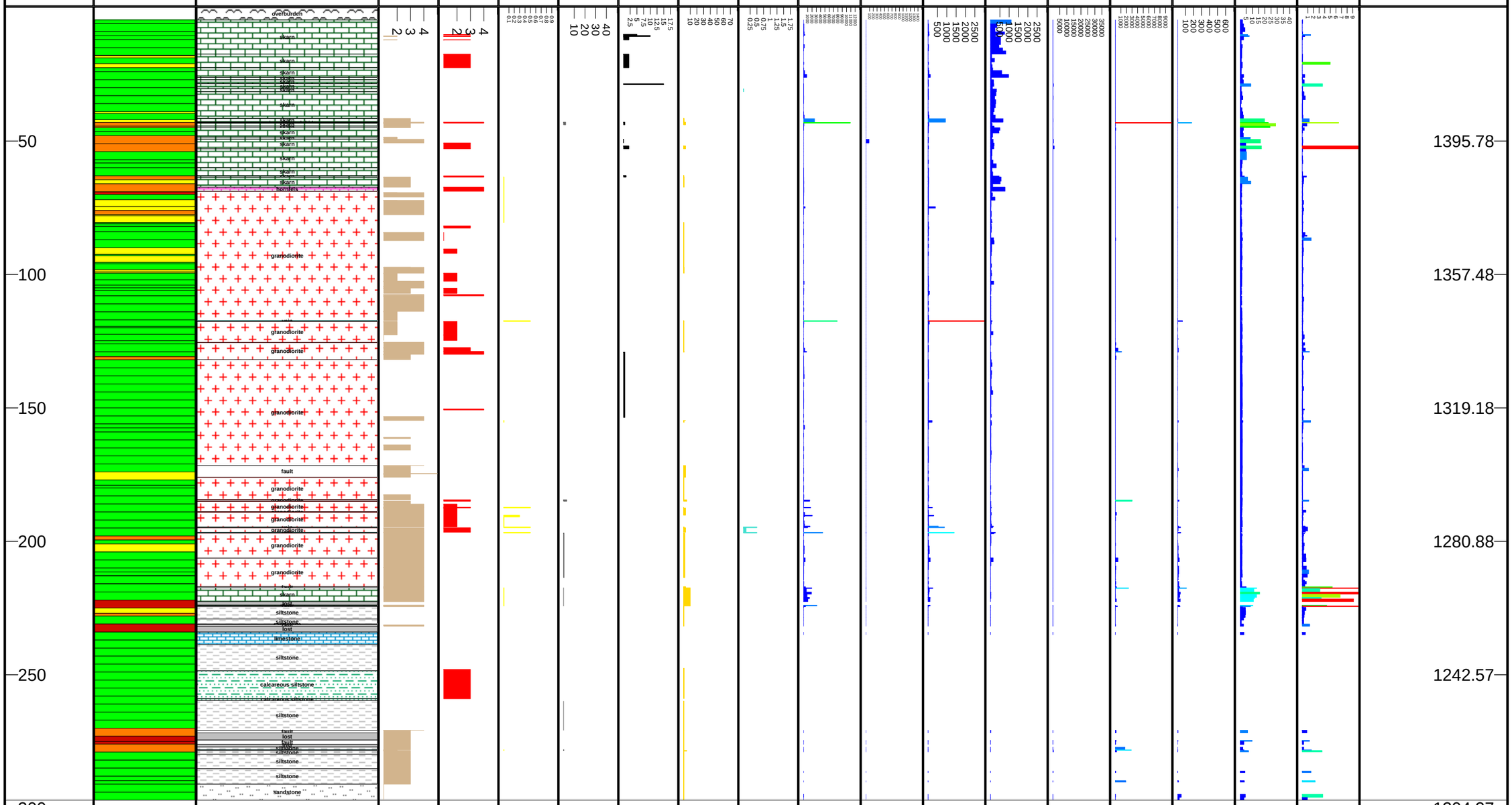
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Company: Aben Resources Ltd.	Project: Justin	Start Date: 8/01/2012	End Date: 8/03/2012
Hole Name :JN12013	Hole Length :250.00	Azimuth(Deg) :260	Dip(Deg) :-45
Easting :546656.558	Northing :6839429.038	Elevation(m) :1435.03	Accuracy(m) :0.6
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



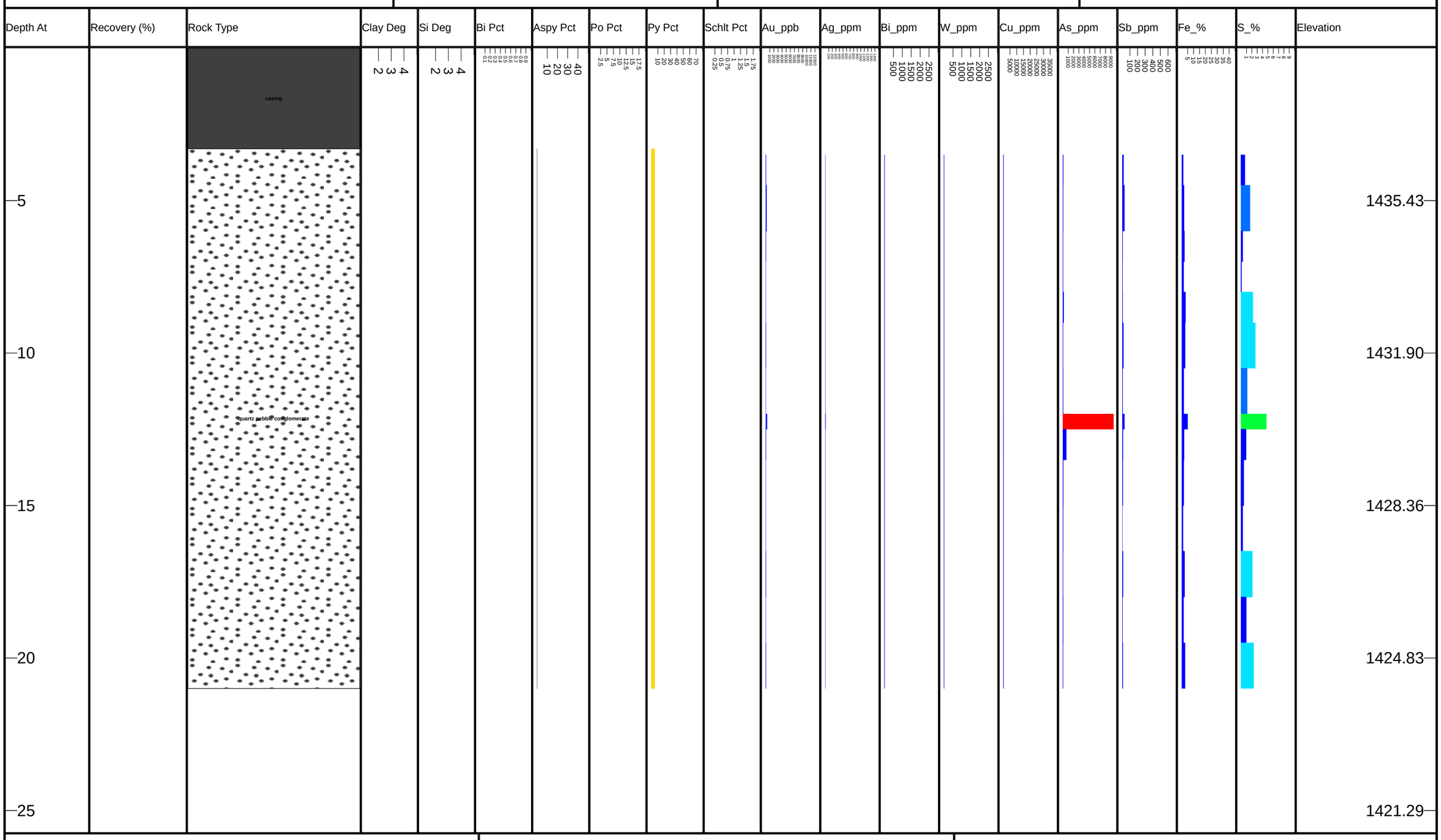
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Company: Aben Resources Ltd.	Project: Justin	Start Date: 8/04/2012	End Date: 8/07/2012
Hole Name :JN12014	Hole Length :297.00	Azimuth(Deg) :80	Dip(Deg) :-50
Easting :546662.541	Northing :6839429.438	Elevation(m) :1434.084	Accuracy(m) :1.1
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



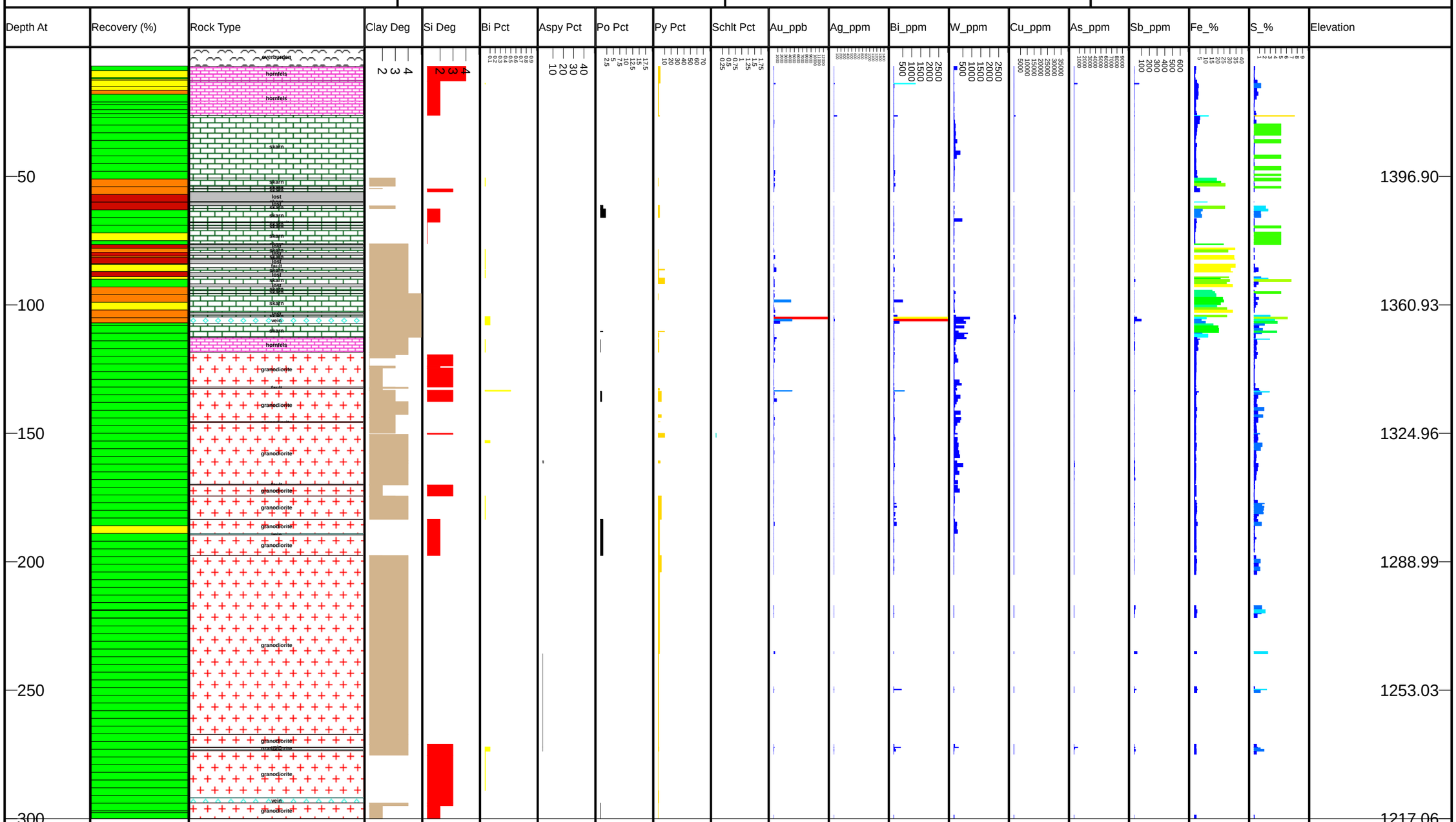
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Company: Aben Resources Ltd.	Project: Justin	Start Date: 8/07/2012	End Date: 8/08/2012
Hole Name :JN12015	Hole Length: 21.00	Azimuth(Deg) :80	Dip(Deg) :-45
Easting :546338.54	Northing :6839547.248	Elevation(m) :1438.969	Accuracy(m) :5.8
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



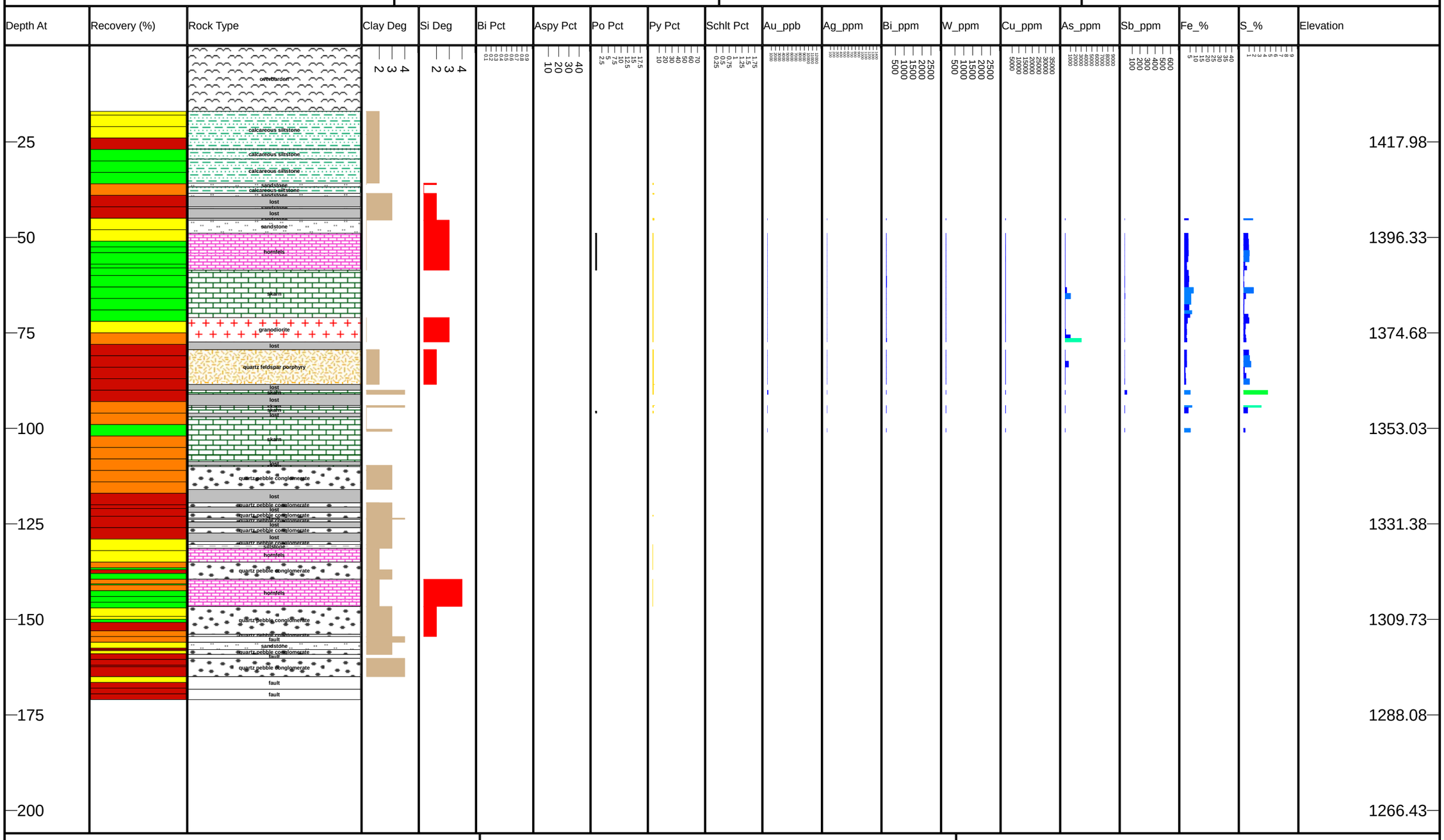
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Company: Aben Resources Ltd.	Project: Justin	Start Date: 8/08/2012	End Date: 8/12/2012
Hole Name :JN12016	Hole Length :300.00	Azimuth(Deg) :270	Dip(Deg) :-46
Easting :546559.391	Northing :6839484.664	Elevation(m) :1432.862	Accuracy(m) :0.5
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



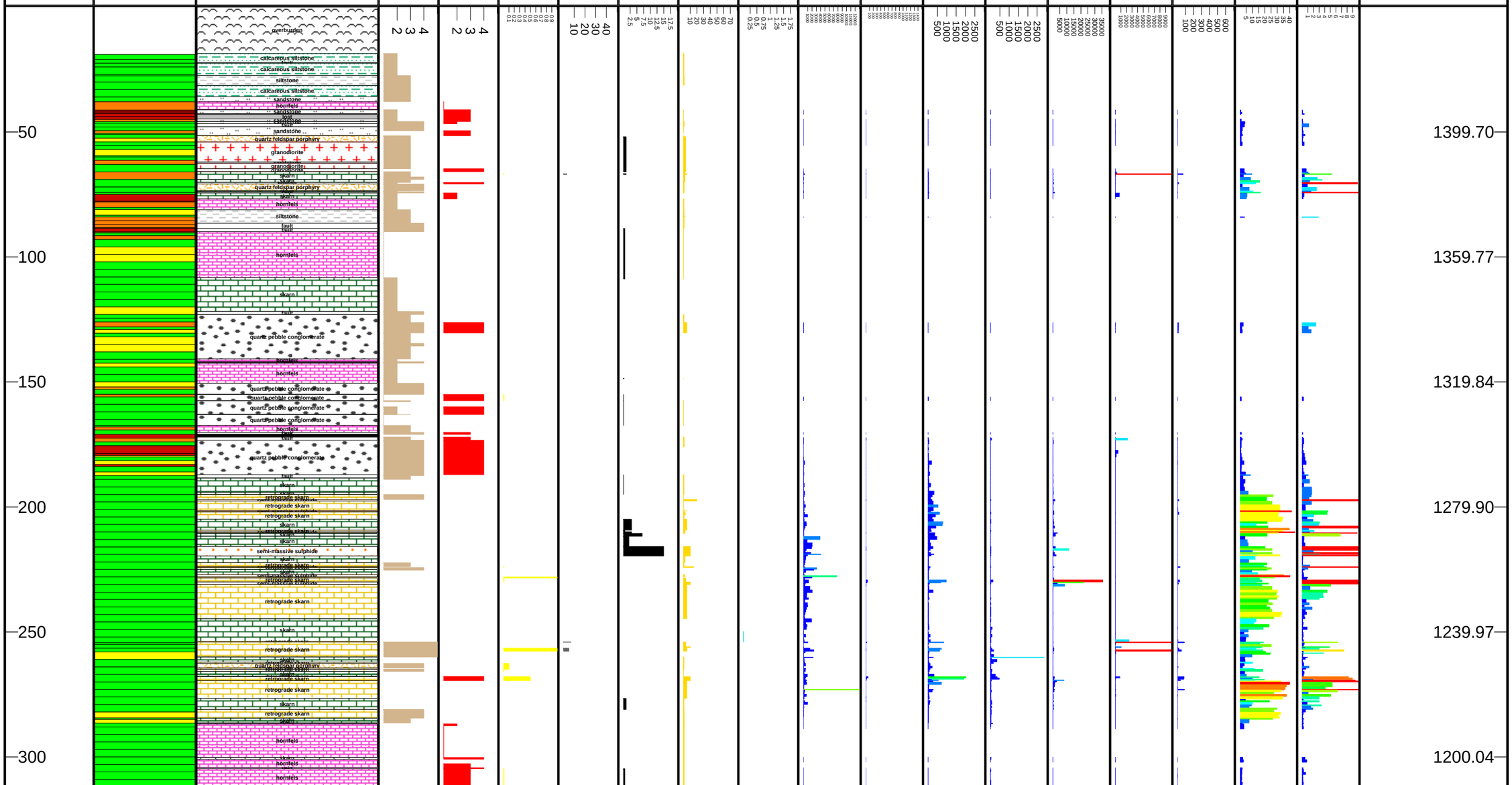
Scale 1:1500	11/28/12	10:19:15

Company: Aben Resources Ltd.	Project: Justin	Start Date: 9/07/2012	End Date: 9/11/2012
Hole Name :JN12017	Hole Length: 171.00	Azimuth(Deg) :80	Dip(Deg) :-60
Easting :546284.126	Northing :6839641.352	Elevation(m) :1439.631	Accuracy(m) :0.9
Logging Geologist: Jo van Randen	Core Size: NQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



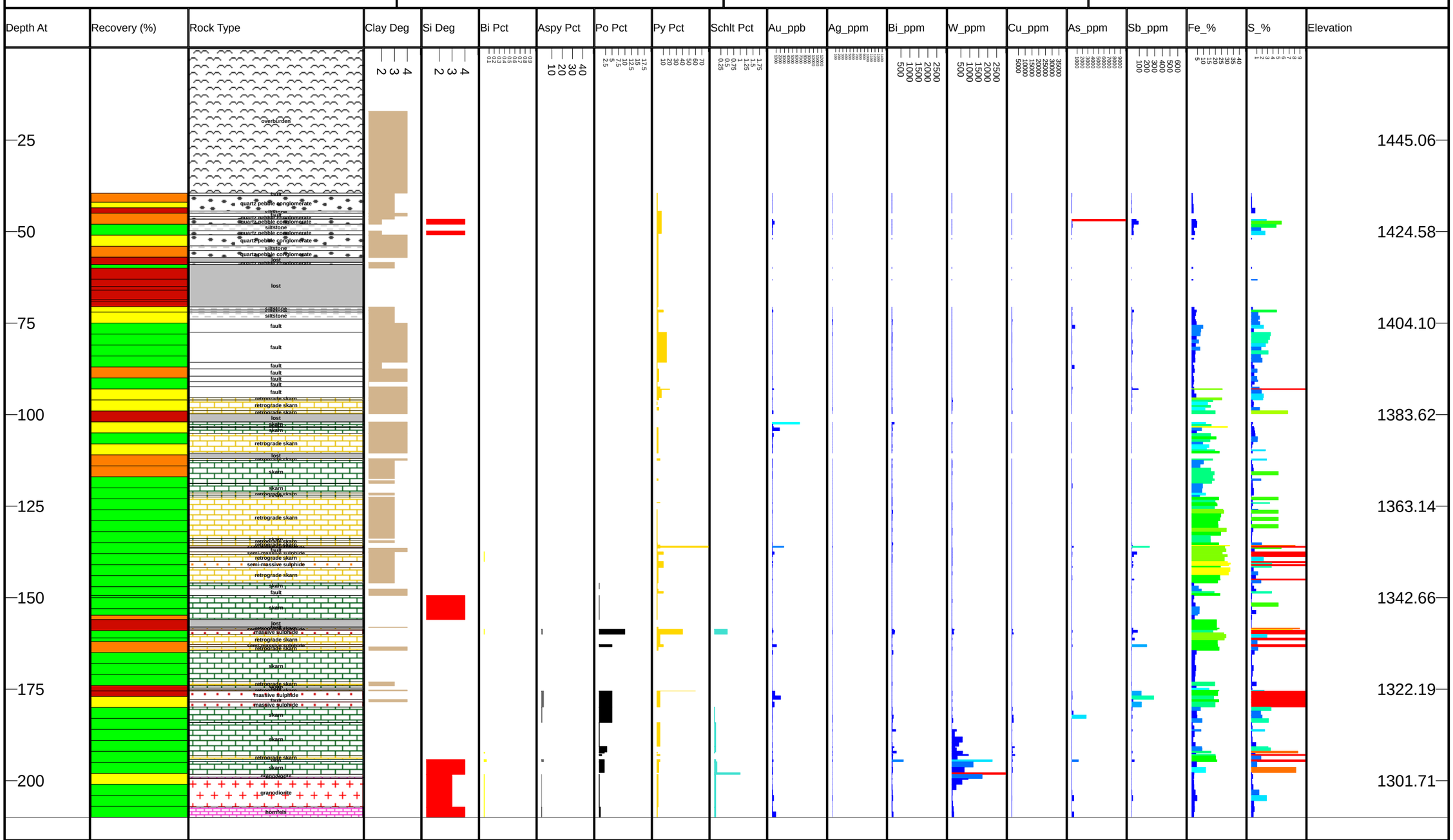
Scale 1:1000	11/28/12	10:21:51

Company: Aben Resources Ltd.	Project: Justin	Start Date: 9/11/2012	End Date: 9/15/2012
Hole Name :JN12018	Hole Length :312.00	Azimuth(Deg) :80	Dip(Deg) :-53
Easting :546284.126	Northing :6839641.352	Elevation(m) :1439.631	Accuracy(m) :0.9
Logging Geologist: Jo van Randen	Core Size: HQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



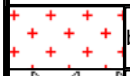
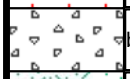
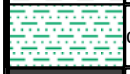
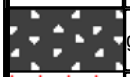
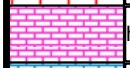
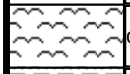
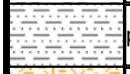
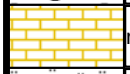
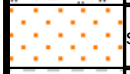
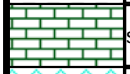
Scale 1:1600	11/28/12	10:24:04

Company: Aben Resources Ltd.	Project: Justin	Start Date: 9/16/2012	End Date: 9/23/2012
Hole Name :JN12019	Hole Length :210.00	Azimuth(Deg) :80	Dip(Deg) :-55
Easting :546296.537	Northing :6839504.398	Elevation(m) :1465.537	Accuracy(m) :0.6
Logging Geologist: Jo van Randen	Core Size: NQ/HQ	Drill Type: Diamond	Drill Contractor: Driftwood Diamond Drilling Ltd.



Scale 1:1050	11/28/12	10:25:55

Justin Project - Strip Log Legends

Legend - JN Geology	
	biotite quartz diorite
	breccia
	calc-silicate rock
	calcareous mudstone
	calcareous siltstone
	casing
	fault
	gouge
	granodiorite
	hornfels
	limestone
	lost
	massive sulphide
	overburden
	phyllite
	quartz feldspar porphyry
	quartz pebble conglomerate
	retrograde skarn
	sandstone
	semi-massive sulphide
	siltstone
	skarn
	vein

Global - Recovery %
[0.0 , 60.0]
[60.0 , 80.0]
[80.00 , 89.99]
[90 , 1000]

4.3 – Diamond Drill Hole Sample Log

Appendix 4.3 - Sample Log

30-Oct-12

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-001	19.4	19.9	0.5	0.5	SAW
JN12011	JN12011-002	23.4	24	0.6	0.6	SAW
JN12011	JN12011-003	30.5	30.8	0.3	0.3	SAW
JN12011	JN12011-004	38.5	39	0.5	0.5	SAW
JN12011	JN12011-005	39	40	1	1.0	SAW
JN12011	JN12011-006	42	42.3	0.3	0.1	SAW
JN12011	JN12011-007	45	46	1	1.0	SAW
JN12011	JN12011-008	48	49	1	0.8	SAW
JN12011	JN12011-009	63.8	65.3	1.5	1.5	SAW
JN12011	JN12011-010	92.8	93.7	0.9	0.8	SAW
JN12011	JN12011-011	94.7	94.9	0.2	0.2	SAW
JN12011	JN12011-012	95.9	97.3	1.4	0.8	SAW
JN12011	JN12011-013	109.7	110.7	1	0.9	SAW
JN12011	JN12011-014	110.7	112.2	1.5	1.4	SAW
JN12011	JN12011-015	112.2	113.7	1.5	1.5	SAW
JN12011	JN12011-016	113.7	114.9	1.2	1.2	SAW
JN12011	JN12011-017	114.9	115.9	1	1	SAW
JN12011	JN12011-018	115.9	117.2	1.3	1.1	SAW
JN12011	JN12011-019	117.2	118.3	1.1	1	SAW
JN12011	JN12011-020	118.3	118.7	0.4	0.4	SAW
JN12011	JN12011-021	118.7	120.1	1.4	1	SAW
JN12011	JN12011-022	120.1	120.7	0.6	.5	SAW
JN12011	JN12011-023	120.7	121.3	0.6	.6	SAW
JN12011	JN12011-024	121.3	122.6	1.3	.7	SAW
JN12011	JN12011-025	122.6	123.8	1.2	1.2	SAW
JN12011	JN12011-026	123.8	124.9	1.1	.6	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-027	124.9	126	1.1	1.1	SAW
JN12011	JN12011-028	127.8	128.3	0.5	.5	SAW
JN12011	JN12011-029	128.3	129.3	1	.7	SAW
JN12011	JN12011-030	131	131.6	0.6	.3	SAW
JN12011	JN12011-031	131.6	132.5	0.9	.7	SAW
JN12011	JN12011-032	132.5	133.4	0.9	.9	SAW
JN12011	JN12011-033	133.4	134.4	1	1	SAW
JN12011	JN12011-034	134.4	135.4	1	.9	SAW
JN12011	JN12011-035	135.4	136.4	1	.9	SAW
JN12011	JN12011-036	136.4	137.5	1.1	1	SAW
JN12011	JN12011-037	137.5	138.5	1	.7	SAW
JN12011	JN12011-038	138.5	139.5	1	.8	SAW
JN12011	JN12011-039	139.5	140.5	1	.8	SAW
JN12011	JN12011-040	140.5	140.8	0.3	.3	SAW
JN12011	JN12011-041	140.8	141.9	1.1	1.1	SAW
JN12011	JN12011-042	141.9	143	1.1	.8	SAW
JN12011	JN12011-043	143	144.2	1.2	1.2	SAW
JN12011	JN12011-044	144.2	145.5	1.3	1.1	SAW
JN12011	JN12011-045	145.5	146.8	1.3	1.2	SAW
JN12011	JN12011-046	146.8	147.5	0.7	0.5	SAW
JN12011	JN12011-047	147.5	149	1.5	.6	SAW
JN12011	JN12011-048	149	150	1	.5	SAW
JN12011	JN12011-049	150	150.3	0.3	.1	SAW
JN12011	JN12011-050	150.3	151.5	1.2	1.2	SAW
JN12011	JN12011-051	151.5	153	1.5	1.2	SAW
JN12011	JN12011-052	153	154.5	1.5	.7	SAW
JN12011	JN12011-053	154.5	155.3	0.8	.6	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-054	155.3	156.7	1.4	1.2	SAW
JN12011	JN12011-055	156.7	158	1.3	1.3	SAW
JN12011	JN12011-056	158	159	1	.9	SAW
JN12011	JN12011-057	159	160.5	1.5	.8	SAW
JN12011	JN12011-058	160.5	162	1.5	1.3	SAW
JN12011	JN12011-059	162	163.5	1.5	1.2	SAW
JN12011	JN12011-060	163.5	165	1.5	.8	SAW
JN12011	JN12011-061	165	165.7	0.7	.7	SAW
JN12011	JN12011-062	165.7	166.7	1	.9	SAW
JN12011	JN12011-063	166.7	168	1.3	1.2	SAW
JN12011	JN12011-064	168	169.5	1.5	.8	SAW
JN12011	JN12011-065	169.5	170.6	1.1	1.1	SAW
JN12011	JN12011-066	170.6	170.9	0.3	0.4	SAW
JN12011	JN12011-067	170.9	172	1	1	SAW
JN12011	JN12011-068	172	172.4	0.4	0.4	SAW
JN12011	JN12011-069	172.4	172.8	0.4	0.4	SAW
JN12011	JN12011-070	172.8	174	1.2	0.8	SAW
JN12011	JN12011-071	174	175.5	1.5	1.5	SAW
JN12011	JN12011-072	175.5	176.9	1.4	1.2	SAW
JN12011	JN12011-073	176.9	177.5	0.6	0.6	SAW
JN12011	JN12011-074	177.5	178	0.5	0.5	SAW
JN12011	JN12011-075	178	179.5	1.5	1.0	SAW
JN12011	JN12011-076	179.5	181	1.5	1.4	SAW
JN12011	JN12011-077	181	182.5	1.5	1.3	SAW
JN12011	JN12011-078 JN12011-078	182.5	184	1.5	1.4	SAW
JN12011	JN12011-079	184	185	1	1	SAW
JN12011	JN12011-080	185	186.3	1.3	1.1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-081	186.3	187.2	0.9	1.0	SAW
JN12011	JN12011-082	187.2	188.3	1.1	1.2	SAW
JN12011	JN12011-083	188.3	189.3	1	1.0	SAW
JN12011	JN12011-084	189.3	190.6	1.3	1.1	SAW
JN12011	JN12011-085	190.6	191.7	1.1	0.9	SAW
JN12011	JN12011-086	191.7	192.8	1.1	1.2	SAW
JN12011	JN12011-087	192.8	193.8	1	1.0	SAW
JN12011	JN12011-088	193.8	195.3	1.5	1.5	SAW
JN12011	JN12011-089	195.3	196.8	1.5	1.3	SAW
JN12011	JN12011-090	196.8	198	1.2	1.2	SAW
JN12011	JN12011-091	198	199.1	1.1	0.9	SAW
JN12011	JN12011-092	199.1	200.1	1	1.0	SAW
JN12011	JN12011-093	200.1	201.6	1.5	1.4	SAW
JN12011	JN12011-094	201.6	202	0.4	0.4	SAW
JN12011	JN12011-095	202	202.7	0.7	0.7	SAW
JN12011	JN12011-096	202.7	203.3	0.6	0.6	SAW
JN12011	JN12011-097	203.3	204	0.7	0.7	SAW
JN12011	JN12011-098	204	205	1	0.6	SAW
JN12011	JN12011-099	205	206.5	1.5	1.5	SAW
JN12011	JN12011-100	206.5	208	1.5	1.2	SAW
JN12011	JN12011-101	208	208.8	0.8	0.8	SAW
JN12011	JN12011-102	208.8	209.8	1	1	SAW
JN12011	JN12011-103	209.8	211	1.2	1.2	SAW
JN12011	JN12011-104	211	212.5	1.5	1.2	SAW
JN12011	JN12011-105	212.5	213.8	1.3	1.3	SAW
JN12011	JN12011-106	213.8	215.3	1.5	1.4	SAW
JN12011	JN12011-107	215.3	216.7	1.4	1.4	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-108	216.7	217.7	1	1	SAW
JN12011	JN12011-109	217.7	218.7	1	.9	SAW
JN12011	JN12011-110	218.7	219.7	1	.9	SAW
JN12011	JN12011-111	219.7	221.2	1.5	1.4	SAW
JN12011	JN12011-112	221.2	222.7	1.5	1.5	SAW
JN12011	JN12011-113	222.7	224	1.3	1.1	SAW
JN12011	JN12011-114	224	225.2	1.2	1.2	SAW
JN12011	JN12011-115	225.2	225.5	0.3	0.3	SAW
JN12011	JN12011-116	225.5	226.5	1	1	SAW
JN12011	JN12011-117	226.5	228	1.5	1.3	SAW
JN12011	JN12011-118	228	229.5	1.5	1.5	SAW
JN12011	JN12011-119	229.5	231	1.5	1.35	SAW
JN12011	JN12011-120	231	232.2	1.2	1.2	SAW
JN12011	JN12011-121	232.2	233.1	1.1	0.97	SAW
JN12011	JN12011-122	233.1	233.9	0.8	0.8	SAW
JN12011	JN12011-123	233.9	235	1.1	1.1	SAW
JN12011	JN12011-124	235	236.5	1.5	1.5	SAW
JN12011	JN12011-125	236.5	238	1.5	1.5	SAW
JN12011	JN12011-126	238	239.5	1.5	1.5	SAW
JN12011	JN12011-127	239.5	241	1.5	1.5	SAW
JN12011	JN12011-128	241	242.3	1.3	1.3	SAW
JN12011	JN12011-129	242.3	243.3	1	1	SAW
JN12011	JN12011-130	243.3	244	0.7	0.7	SAW
JN12011	JN12011-131	244	244.4	0.4	0.4	SAW
JN12011	JN12011-132	244.4	245.2	0.8	0.8	SAW
JN12011	JN12011-133	245.2	245.9	0.7	0.7	SAW
JN12011	JN12011-134	245.9	247.3	1.4	1.4	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-135	247.3	247.9	0.6	0.6	SAW
JN12011	JN12011-136	247.9	248.3	0.4	0.6	SAW
JN12011	JN12011-137	248.3	248.6	0.3	0.3	SAW
JN12011	JN12011-138	248.6	249.7	1.1	1.1	SAW
JN12011	JN12011-139	249.7	251	1.3	1.3	SAW
JN12011	JN12011-140	251	251.9	0.9	0.9	SAW
JN12011	JN12011-141	251.9	253.4	1.5	1.5	SAW
JN12011	JN12011-142	253.4	254.9	1.5	1.5	SAW
JN12011	JN12011-143	254.9	256.4	1.5	1.5	SAW
JN12011	JN12011-144	256.4	257.8	1.4	1.4	SAW
JN12011	JN12011-145	257.8	258.2	0.4	0.3	SAW
JN12011	JN12011-146	258.2	259.2	1	1	SAW
JN12011	JN12011-147	259.2	260.7	1.5	1.5	SAW
JN12011	JN12011-148	260.7	262	1.3	1.1	SAW
JN12011	JN12011-149	262	263.5	1.5	1.5	SAW
JN12011	JN12011-150	263.5	265	1.5	1.5	SAW
JN12011	JN12011-151	265	266.1	1.1	1.1	SAW
JN12011	JN12011-152	266.1	267.2	1.1	1.1	SAW
JN12011	JN12011-153	267.2	268	0.8	0.8	SAW
JN12011	JN12011-154	268	268.3	0.3	0.3	SAW
JN12011	JN12011-155	268.3	269.1	0.8	0.8	SAW
JN12011	JN12011-156	269.1	269.9	0.8	0.8	SAW
JN12011	JN12011-157	269.9	270.9	1	1	SAW
JN12011	JN12011-158	270.9	271.5	0.6	0.6	SAW
JN12011	JN12011-159	271.5	272.1	0.6	0.6	SAW
JN12011	JN12011-160	272.1	273.5	1.4	1.4	SAW
JN12011	JN12011-161	273.5	274.7	1.2	1.2	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-162	274.7	275.2	0.5	0.5	SAW
JN12011	JN12011-163	275.2	276.7	1.5	1.5	SAW
JN12011	JN12011-164	276.7	278.2	1.5	1.5	SAW
JN12011	JN12011-165	278.2	279.7	1.5	1.5	SAW
JN12011	JN12011-166	279.8	281.3	1.5	1.5	SAW
JN12011	JN12011-167	281.3	282.8	1.5	1.4	SAW
JN12011	JN12011-168	282.8	284.3	1.5	1.5	SAW
JN12011	JN12011-169	284.3	285.5	1.2	1.1	SAW
JN12011	JN12011-170	285.5	286.8	1.3	1.3	SAW
JN12011	JN12011-171	286.8	287.3	0.5	0.4	SAW
JN12011	JN12011-172	287.3	288.8	1.5	1.5	SAW
JN12011	JN12011-173	288.8	290.3	1.5	1.5	SAW
JN12011	JN12011-174	290.3	291.8	1.5	1.5	SAW
JN12011	JN12011-175	291.8	293.3	1.5	1.5	SAW
JN12011	JN12011-176	293.3	294.8	1.5	1.5	SAW
JN12011	JN12011-177	294.8	296.3	1.5	1.5	SAW
JN12011	JN12011-178	296.3	297.8	1.5	1.5	SAW
JN12011	JN12011-179	297.8	299.1	1.3	1.3	SAW
JN12011	JN12011-180	299.1	300	0.9	0.8	SAW
JN12011	JN12011-181	300	301	1	1	SAW
JN12011	JN12011-182	301	301.7	0.7	0.7	SAW
JN12011	JN12011-183	301.7	302.7	1	1	SAW
JN12011	JN12011-184	302.7	304.1	1.4	1.3	SAW
JN12011	JN12011-185	304.1	304.9	0.8	0.8	SAW
JN12011	JN12011-186	304.9	305.2	0.3	0.3	SAW
JN12011	JN12011-187	305.2	306.7	1.5	1.4	SAW
JN12011	JN12011-188	306.7	308.2	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-189	308.2	309.7	1.5	1.5	SAW
JN12011	JN12011-190	309.7	311.2	1.5	1.5	SAW
JN12011	JN12011-191	311.2	312.7	1.5	1.5	SAW
JN12011	JN12011-192	312.7	314.2	1.5	1.4	SAW
JN12011	JN12011-193	314.2	315.7	1.5	1.5	SAW
JN12011	JN12011-194	315.7	317.2	1.5	1.4	SAW
JN12011	JN12011-195	317.2	318.7	1.5	1.5	SAW
JN12011	JN12011-196	318.7	320.2	1.5	1.5	SAW
JN12011	JN12011-197	320.2	321.7	1.5	1.5	SAW
JN12011	JN12011-198	321.7	323.2	1.5	1.5	SAW
JN12011	JN12011-199 JN12011-199 JN12011-199 JN12011-199	323.2	324.7	1.5	1.4	SAW
JN12011	JN12011-200	324.7	326.2	1.5	1.5	SAW
JN12011	JN12011-201	326.2	327.3	1.1	1	SAW
JN12011	JN12011-202	327.3	328.8	1.5	1.5	SAW
JN12011	JN12011-203	328.8	330.3	1.5	1.5	SAW
JN12011	JN12011-204	330.3	331.8	1.5	1.5	SAW
JN12011	JN12011-205	331.8	333.3	1.5	1.5	SAW
JN12011	JN12011-206	333.3	334.5	1.5	1.1	SAW
JN12011	JN12011-207	334.5	335.6	1.1	1.1	SAW
JN12011	JN12011-208	335.6	336.6	1	0.7	SAW
JN12011	JN12011-209	336.6	338	1.4	1.4	SAW
JN12011	JN12011-210	338	339.5	1.5	1.5	SAW
JN12011	JN12011-211	339.5	340.5	1	1	SAW
JN12011	JN12011-212	340.5	341.5	1	1	SAW
JN12011	JN12011-213	341.5	341.9	0.4	0.4	SAW
JN12011	JN12011-214	341.9	343.4	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12011	JN12011-215	343.4	344.6	1.2	1.2	SAW
JN12011	JN12011-216	344.6	346	1.4	1.4	SAW
JN12011	JN12011-217	346	347.5	1.5	1.5	SAW
JN12011	JN12011-218	347.5	349	1.5	1.4	SAW
JN12011	JN12011-219	349	350.5	1.5	1.5	SAW
JN12011	JN12011-220	350.5	352	1.5	1.5	SAW
JN12011	JN12011-221	352	353.5	1.5	1.5	SAW
JN12011	JN12011-222	353.5	355	1.5	1.5	SAW
JN12011	JN12011-223	355	356.5	1.5	1.5	SAW
JN12011	JN12011-224	356.5	358	1.5	1.5	SAW
JN12011	JN12011-225	358	359.5	1.5	1.5	SAW
JN12011	JN12011-226	359.5	361	1.5	1.5	SAW
JN12011	JN12011-227	361	362.5	1.5	1.5	SAW
JN12011	JN12011-228	362.5	363.7	1.2	1.1	SAW
JN12012	JN12012-001	6.6	7.7	1.1	0.9	SAW
JN12012	JN12012-002	7.7	8.6	0.9	0.9	SAW
JN12012	JN12012-003	8.6	9	0.4	0.4	SAW
JN12012	JN12012-004	9	10.5	1.5	1.4	SAW
JN12012	JN12012-005	10.5	12	1.5	1.5	SAW
JN12012	JN12012-006	12	13	1	0.9	SAW
JN12012	JN12012-007	13	13.9	0.9	0.9	SAW
JN12012	JN12012-008	13.9	14.6	0.7	0.8	SAW
JN12012	JN12012-009	14.6	15.5	0.9	0.9	SAW
JN12012	JN12012-010	15.5	16.5	1	1	SAW
JN12012	JN12012-011	16.5	17.9	1.4	1.2	SAW
JN12012	JN12012-012	17.9	18.4	0.5	0.5	SAW
JN12012	JN12012-013	18.4	19.9	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12012	JN12012-014	19.9	21.4	1.5	1.5	SAW
JN12012	JN12012-015	21.4	22.9	1.5	1.5	SAW
JN12012	JN12012-016	22.9	24.4	1.5	1.4	SAW
JN12012	JN12012-017	24.4	25.9	1.5	1.5	SAW
JN12012	JN12012-018	25.9	27.4	1.5	1.4	SAW
JN12012	JN12012-019	27.4	28.9	1.5	1.5	SAW
JN12012	JN12012-020	28.9	30.2	1.3	1.1	SAW
JN12012	JN12012-021	30.2	31.7	1.5	1.3	SAW
JN12012	JN12012-022	31.7	33.2	1.5	1.5	SAW
JN12012	JN12012-023	33.2	34.6	1.4	1.4	SAW
JN12012	JN12012-024	34.6	36	1.4	1.3	SAW
JN12012	JN12012-025	36	36.3	0.3	0.3	SAW
JN12012	JN12012-026	36.3	37	0.7	0.7	SAW
JN12012	JN12012-027	37	38.5	1.5	1.4	SAW
JN12012	JN12012-028	38.5	40	1.5	1.5	SAW
JN12012	JN12012-029	40	41.5	1.5	1.4	SAW
JN12012	JN12012-030	41.5	42.6	1.1	1	SAW
JN12012	JN12012-031	42.6	43.3	0.7	0.7	SAW
JN12012	JN12012-032	43.3	43.8	0.5	0.5	SAW
JN12012	JN12012-033	45	45.7	0.7	0.7	SAW
JN12012	JN12012-034	45.7	46.1	0.4	0.4	SAW
JN12012	JN12012-035	46.1	46.9	0.8	0.5	SAW
JN12012	JN12012-036	46.9	48	1.1	1.1	SAW
JN12012	JN12012-037	48	49	1	1	SAW
JN12012	JN12012-038	49	49.8	0.8	0.8	SAW
JN12012	JN12012-039	49.8	50.6	0.8	0.8	SAW
JN12012	JN12012-040	50.6	51.3	0.7	0.7	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12012	JN12012-041	51.3	51.7	0.4	0.4	SAW
JN12012	JN12012-042	51.7	52.4	0.7	0.6	SAW
JN12012	JN12012-043	52.4	53.5	1.1	0.8	SAW
JN12012	JN12012-044	53.5	54.5	1	0.9	SAW
JN12012	JN12012-045	54.5	54.9	0.4	0.4	SAW
JN12012	JN12012-046	54.9	55.9	1	1	SAW
JN12012	JN12012-047	55.9	56.7	0.8	0.8	SAW
JN12012	JN12012-048	56.7	58	1.3	0.9	SAW
JN12012	JN12012-049	58	58.6	0.6	0.6	SAW
JN12012	JN12012-050	58.6	59.8	1.2	1.1	SAW
JN12012	JN12012-051	59.8	61.3	1.5	1	SAW
JN12012	JN12012-052	61.3	62.8	1.5	1.5	SAW
JN12012	JN12012-053	62.8	64.3	1.5	1.5	SAW
JN12012	JN12012-054	64.3	65.8	1.5	1.5	SAW
JN12012	JN12012-055	65.8	67.3	1.5	1.5	SAW
JN12012	JN12012-056	67.3	68.8	1.5	1.5	SAW
JN12012	JN12012-057	68.8	69.1	0.3	0.3	SAW
JN12012	JN12012-058	69.1	69.6	0.5	0.5	SAW
JN12012	JN12012-059	69.6	70	0.4	0.4	SAW
JN12012	JN12012-060	71.2	71.5	0.3	0.2	SAW
JN12012	JN12012-061	71.5	72.1	0.6	0.6	SAW
JN12012	JN12012-062	72.1	73.3	1.2	1.2	SAW
JN12012	JN12012-063	73.3	74.2	0.9	0.9	SAW
JN12012	JN12012-064	74.2	75.4	1.2	0.9	SAW
JN12012	JN12012-065	75.4	76.9	1.5	1.4	SAW
JN12012	JN12012-066	76.9	77.7	0.8	0.8	SAW
JN12012	JN12012-067	77.7	78.3	0.6	0.6	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12012	JN12012-068	78.3	78.7	0.4	0.4	SAW
JN12012	JN12012-069	79.9	80.6	0.7	0.7	SAW
JN12012	JN12012-070	80.6	82	1.4	1.4	SAW
JN12012	JN12012-071	82	83.3	1.3	0.6	SAW
JN12012	JN12012-072	83.3	83.8	0.5	0.5	SAW
JN12012	JN12012-073	83.8	85	1.2	1.2	SAW
JN12012	JN12012-074	85	86.1	1.1	0.9	SAW
JN12012	JN12012-075	86.1	87.1	1	0.9	SAW
JN12012	JN12012-076	87.1	88.6	1.5	1.5	SAW
JN12012	JN12012-077	88.6	89.7	1.1	0.5	SAW
JN12012	JN12012-078	89.7	90.1	0.4	0.3	SAW
JN12012	JN12012-079	90.1	91.1	1	1	SAW
JN12012	JN12012-080	94.9	96.1	1.2	1.1	SAW
JN12012	JN12012-081	97.2	98	0.8	0.7	SAW
JN12012	JN12012-082	98	99	1	0.9	SAW
JN12012	JN12012-083	99	99.5	0.5	0.4	SAW
JN12012	JN12012-084	99.5	100.7	1.2	0.7	SAW
JN12012	JN12012-085	100.7	101.6	0.9	0.9	SAW
JN12012	JN12012-086	101.6	102.1	0.5	0.4	SAW
JN12012	JN12012-087	102.1	103.1	1	0.8	SAW
JN12012	JN12012-088	103.1	104	0.9	0.4	SAW
JN12012	JN12012-089	104	105	1	0.4	SAW
JN12012	JN12012-090	105	106.1	1.1	0.9	SAW
JN12012	JN12012-091	106.1	107.4	1.3	1.3	SAW
JN12012	JN12012-092	107.4	107.9	0.5	0.1	SAW
JN12012	JN12012-093	107.9	108.2	0.3	0.3	SAW
JN12012	JN12012-094	108.2	109.6	1.4	1.3	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12012	JN12012-095	109.6	110	0.4	0.4	SAW
JN12012	JN12012-096	110	111.5	1.5	1.4	SAW
JN12012	JN12012-097	111.5	112.9	1.4	1.4	SAW
JN12012	JN12012-098	112.9	114.1	1.2	1	SAW
JN12012	JN12012-099	114.1	115	0.9	0.5	SAW
JN12012	JN12012-100	115	116.5	1.5	1.5	SAW
JN12012	JN12012-101	116.5	118	1.5	1.3	SAW
JN12012	JN12012-102	118	119.5	1.5	1.3	SAW
JN12012	JN12012-103	119.5	120.5	1	1	SAW
JN12012	JN12012-104	120.5	120.8	0.3	0.2	SAW
JN12012	JN12012-105	122	123.3	1.3	0.7	SAW
JN12012	JN12012-106	123.3	124.7	1.4	1.1	SAW
JN12012	JN12012-107	124.7	126.2	1.5	1.2	SAW
JN12012	JN12012-108	126.2	127.7	1.5	1.5	SAW
JN12012	JN12012-109	127.7	128.8	1.1	1	SAW
JN12012	JN12012-110	128.8	130.3	1.5	1.2	SAW
JN12012	JN12012-111	130.3	131.8	1.5	1.5	SAW
JN12012	JN12012-112	131.8	133.3	1.5	1.5	SAW
JN12012	JN12012-113	133.3	134.8	1.5	1.5	SAW
JN12012	JN12012-114	134.8	136.3	1.5	1.5	SAW
JN12012	JN12012-115	136.3	137.8	1.5	1.5	SAW
JN12012	JN12012-116	137.8	139.3	1.5	1.5	SAW
JN12012	JN12012-117	139.3	140.2	0.9	.7	SAW
JN12012	JN12012-118	140.2	141.3	1.1	1.1	SAW
JN12012	JN12012-119	141.3	142.8	1.5	1.5	SAW
JN12012	JN12012-120	142.8	144.3	1.5	1.5	SAW
JN12012	JN12012-121	144.3	145.8	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12012	JN12012-122	145.8	147.3	1.5	.8	SAW
JN12012	JN12012-123	147.3	148.8	1.5	1.5	SAW
JN12012	JN12012-124	148.8	150.3	1.5	.6	SAW
JN12012	JN12012-125	150.3	151.8	1.5	1.2	SAW
JN12012	JN12012-126	151.8	153.3	1.5	1	SAW
JN12012	JN12012-127	153.3	154.8	1.5	1.5	SAW
JN12012	JN12012-128	154.8	156.3	1.5	.9	SAW
JN12012	JN12012-129	156.3	156.7	0.4	.4	SAW
JN12012	JN12012-130	156.7	157.7	0.8	.8	SAW
JN12013	JN12013-001	4.1	5.5	1.4	1.4	SAW
JN12013	JN12013-002	5.5	6.4	0.9	0.9	SAW
JN12013	JN12013-003	6.4	7.4	1	0.8	SAW
JN12013	JN12013-004	7.4	7.8	0.4	0.4	SAW
JN12013	JN12013-005	7.8	9	1.2	1.2	SAW
JN12013	JN12013-006	9	10	1	1	SAW
JN12013	JN12013-007	10	11	1	0.8	SAW
JN12013	JN12013-008	11	12.1	1.1	0.9	SAW
JN12013	JN12013-009	14.2	15.3	1.1	1.1	SAW
JN12013	JN12013-010	15.3	16	0.7	0.7	SAW
JN12013	JN12013-011	16	17	1	0.9	SAW
JN12013	JN12013-012	17	18.2	1.2	0.7	SAW
JN12013	JN12013-013	21	21.3	0.3	0.3	SAW
JN12013	JN12013-014	23.8	25.3	1.5	0.7	SAW
JN12013	JN12013-015	25.3	26.2	0.9	0.9	SAW
JN12013	JN12013-016	26.2	26.6	0.4	0.4	SAW
JN12013	JN12013-017	26.6	27	0.4	0.3	SAW
JN12013	JN12013-018	27	27.8	0.8	0.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12013	JN12013-019	27.8	28.8	1	1	SAW
JN12013	JN12013-020	28.8	29.9	1.1	1.1	SAW
JN12013	JN12013-021	29.9	30.8	0.9	0.9	SAW
JN12013	JN12013-022	30.8	32.3	1.5	1	SAW
JN12013	JN12013-023	32.3	33	0.7	0.7	SAW
JN12013	JN12013-024	33	34	1	1	SAW
JN12013	JN12013-025	34	35	1	1	SAW
JN12013	JN12013-026	35	36	1	1	SAW
JN12013	JN12013-027	36	37.5	1.5	1.5	SAW
JN12013	JN12013-028	37.5	39	1.5	1.5	SAW
JN12013	JN12013-029	39	40.5	1.5	1.5	SAW
JN12013	JN12013-030	40.5	42	1.5	1.4	SAW
JN12013	JN12013-031	42	43.5	1.5	1.5	SAW
JN12013	JN12013-032	43.5	45	1.5	1.5	SAW
JN12013	JN12013-033	45	45.8	0.8	0.8	SAW
JN12013	JN12013-034	45.8	46.9	1.1	1.1	SAW
JN12013	JN12013-035	46.9	48	1.1	1.1	SAW
JN12013	JN12013-036	48	49.5	1.5	1.5	SAW
JN12013	JN12013-037	49.5	51	1.5	1.5	SAW
JN12013	JN12013-038	51	52.5	1.5	1.5	SAW
JN12013	JN12013-039	52.5	54	1.5	1.5	SAW
JN12013	JN12013-040	54	55.5	1.5	1.5	SAW
JN12013	JN12013-041	55.5	57	1.5	1.3	SAW
JN12013	JN12013-042	57	58.5	1.5	1.5	SAW
JN12013	JN12013-043	58.5	59.5	1	1	SAW
JN12013	JN12013-044	59.5	60.1	0.6	0.6	SAW
JN12013	JN12013-045	60.1	60.6	0.5	0.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12013	JN12013-046	60.6	61.5	0.9	0.9	SAW
JN12013	JN12013-047	61.5	61.9	0.4	0.3	SAW
JN12013	JN12013-048	61.9	63	1.1	1.1	SAW
JN12013	JN12013-049	63	64.5	1.5	1.5	SAW
JN12013	JN12013-050	64.5	66	1.5	1.5	SAW
JN12013	JN12013-051	66	67	1	1	SAW
JN12013	JN12013-052	67	68	1	1	SAW
JN12013	JN12013-053	68	69.3	1.3	1.3	SAW
JN12013	JN12013-054	69.3	70.3	1	1	SAW
JN12013	JN12013-055	70.3	70.9	0.6	0.6	SAW
JN12013	JN12013-056	70.9	72	1.1	1.1	SAW
JN12013	JN12013-057	72	73	1	0.9	SAW
JN12013	JN12013-058	73	74	1	0.9	SAW
JN12013	JN12013-059	74	75	1	1	SAW
JN12013	JN12013-060	75	76	1	1	SAW
JN12013	JN12013-061	76	77.5	1.5	1.5	SAW
JN12013	JN12013-062	77.5	79	1.5	1.2	SAW
JN12013	JN12013-063	79	79.9	0.9	0.9	SAW
JN12013	JN12013-064	81	82.5	1.5	1.3	SAW
JN12013	JN12013-065	82.5	84	1.5	1.3	SAW
JN12013	JN12013-066	84	85.5	1.5	0.9	SAW
JN12013	JN12013-067	85.5	87	1.5	1.3	SAW
JN12013	JN12013-068	87	87.9	0.9	0.9	SAW
JN12013	JN12013-069	87.9	88.7	0.8	0.6	SAW
JN12013	JN12013-070	88.7	89.7	1	1	SAW
JN12013	JN12013-071	89.7	90.8	1.1	1.1	SAW
JN12013	JN12013-072	90.8	92	1.2	1.2	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12013	JN12013-073	92	93.5	1.5	1.4	SAW
JN12013	JN12013-074	93.5	95	1.5	1.4	SAW
JN12013	JN12013-075	95	96.5	1.5	1.5	SAW
JN12013	JN12013-076	96.5	98	1.5	1.5	SAW
JN12013	JN12013-077	98	99.5	1.5	1.4	SAW
JN12013	JN12013-078	99.5	100	0.5	0.5	SAW
JN12013	JN12013-079	100	100.3	0.3	0.3	SAW
JN12013	JN12013-080	100.3	101	0.7	0.7	SAW
JN12013	JN12013-081	101	102	1	0.7	SAW
JN12013	JN12013-082	102	102.6	0.6	0.6	SAW
JN12013	JN12013-083	102.6	103.6	1	1	SAW
JN12013	JN12013-084	103.6	105.1	1.5	1.4	SAW
JN12013	JN12013-085	105.1	106.6	1.5	1.2	SAW
JN12013	JN12013-086	106.6	108	1.4	0.9	SAW
JN12013	JN12013-087	108	109.5	1.5	1.5	SAW
JN12013	JN12013-088	109.5	110.5	1	1	SAW
JN12013	JN12013-089	110.5	112	1.5	1.5	SAW
JN12013	JN12013-090	112	113.5	1.5	1.3	SAW
JN12013	JN12013-091	113.5	115	1.5	1.4	SAW
JN12013	JN12013-092	115	115.7	0.7	0.6	SAW
JN12013	JN12013-093	115.7	116	0.3	0.3	SAW
JN12013	JN12013-094	116	117	1	0.9	SAW
JN12013	JN12013-095	117	117.3	0.3	0.3	SAW
JN12013	JN12013-096	117.3	118	0.7	0.7	SAW
JN12013	JN12013-097	118	119	1	0.9	SAW
JN12013	JN12013-098	119	120	1	0.9	SAW
JN12013	JN12013-099	120	121	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12013	JN12013-100	121	122	1	1	SAW
JN12013	JN12013-101	122	123	1	1	SAW
JN12013	JN12013-102	123	124	1	1	SAW
JN12013	JN12013-103	124	125	1	1	SAW
JN12013	JN12013-104	125	126	1	0.9	SAW
JN12013	JN12013-105	126	127	1	1	SAW
JN12013	JN12013-106	127	128	1	1	SAW
JN12013	JN12013-107	128	129	1	1	SAW
JN12013	JN12013-108	129	130	1	1	SAW
JN12013	JN12013-109	130	131	1	1	SAW
JN12013	JN12013-110	131	132.5	1.5	1.5	SAW
JN12013	JN12013-111	132.5	133.9	1.4	1.5	SAW
JN12013	JN12013-112	133.9	134.8	0.9	0.8	SAW
JN12013	JN12013-113	134.8	135.1	0.3	0.3	SAW
JN12013	JN12013-114	135.1	136.5	1.4	1.3	SAW
JN12013	JN12013-115	136.5	138	1.5	1.3	SAW
JN12013	JN12013-116	138	139	1	1	SAW
JN12013	JN12013-117	139	140.5	1.5	1.5	SAW
JN12013	JN12013-118	140.5	142	1.5	1.5	SAW
JN12013	JN12013-119	142	143	1	1	SAW
JN12013	JN12013-120	143	144	1	1	SAW
JN12013	JN12013-121	144	145	1	1	SAW
JN12013	JN12013-122	145	146	1	1	SAW
JN12013	JN12013-123	146	147.5	1.5	1.5	SAW
JN12013	JN12013-124	147.5	149	1.5	1.5	SAW
JN12013	JN12013-125	149	149.3	0.3	0.3	SAW
JN12013	JN12013-126	149.3	150	0.7	0.7	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12013	JN12013-127	150	151.5	1.5	1.5	SAW
JN12013	JN12013-128	151.5	153	1.5	1.5	SAW
JN12013	JN12013-129	153	154.5	1.5	1.4	SAW
JN12013	JN12013-130	154.5	156	1.5	1.5	SAW
JN12013	JN12013-131	156	157.5	1.5	1.5	SAW
JN12013	JN12013-132	157.5	159	1.5	1.5	SAW
JN12013	JN12013-133	159	159.7	0.7	0.7	SAW
JN12013	JN12013-134	160.1	161.3	1.2	1.2	SAW
JN12013	JN12013-135	161.3	162	0.7	0.7	SAW
JN12014	JN12014-001	4.6	6	1.4	1.4	SAW
JN12014	JN12014-002	6	7.5	1.5	1.4	SAW
JN12014	JN12014-003	7.5	9	1.5	1.5	SAW
JN12014	JN12014-004	9	10	1	1	SAW
JN12014	JN12014-005	10	10.4	0.4	0.4	SAW
JN12014	JN12014-006	10.4	10.8	0.4	0.4	SAW
JN12014	JN12014-007	10.8	12.1	1.3	1.2	SAW
JN12014	JN12014-008	12.1	13.8	1.7	1.5	SAW
JN12014	JN12014-009	13.8	15.1	1.3	1.3	SAW
JN12014	JN12014-010	15.1	16.2	1.1	1	SAW
JN12014	JN12014-011	16.2	17.4	1.2	1.2	SAW
JN12014	JN12014-012	17.4	18.9	1.5	1.5	SAW
JN12014	JN12014-013	18.9	20.3	1.4	1.4	SAW
JN12014	JN12014-014	20.3	21.3	1	1	SAW
JN12014	JN12014-015	21.3	22.5	1.2	1	SAW
JN12014	JN12014-016	22.5	23.5	1	1	SAW
JN12014	JN12014-017	23.5	25	1.5	1.5	SAW
JN12014	JN12014-018	25	26.1	1.1	1.1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-019	26.1	27	0.9	0.9	SAW
JN12014	JN12014-020	27	28.5	1.5	1.5	SAW
JN12014	JN12014-021	28.5	29.5	1	1	SAW
JN12014	JN12014-022	29.5	30.4	0.9	0.7	SAW
JN12014	JN12014-023	30.4	31.5	1.1	1.1	SAW
JN12014	JN12014-024	31.5	33	1.5	1.5	SAW
JN12014	JN12014-025	33	34.5	1.5	1.5	SAW
JN12014	JN12014-026	34.5	36	1.5	1.5	SAW
JN12014	JN12014-027	36	37.5	1.5	1.5	SAW
JN12014	JN12014-028	37.5	39	1.5	1.5	SAW
JN12014	JN12014-029	39	40.2	1.2	1.1	SAW
JN12014	JN12014-030	40.2	41.5	1.3	1.3	SAW
JN12014	JN12014-031	41.5	42.9	1.4	1.1	SAW
JN12014	JN12014-032	42.9	43.3	0.4	0.3	SAW
JN12014	JN12014-033	43.3	44.4	1.1	0.8	SAW
JN12014	JN12014-034	44.4	45	0.6	0.6	SAW
JN12014	JN12014-035	45	46	1	1	SAW
JN12014	JN12014-036	46	47	1	1	SAW
JN12014	JN12014-037	47	48.5	1.5	1.4	SAW
JN12014	JN12014-038	48.5	49.3	0.8	0.8	SAW
JN12014	JN12014-039	49.3	50.7	1.4	0.6	SAW
JN12014	JN12014-040	50.7	51.8	1.1	1.1	SAW
JN12014	JN12014-041	51.8	52.9	1.1	0.3	SAW
JN12014	JN12014-042	52.9	54	1.1	1.1	SAW
JN12014	JN12014-043	54	55.5	1.5	1.4	SAW
JN12014	JN12014-044	55.5	57	1.5	1.3	SAW
JN12014	JN12014-045	57	58.5	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-046	58.5	60	1.5	1.5	SAW
JN12014	JN12014-047	60	61.5	1.5	1.5	SAW
JN12014	JN12014-048	61.5	63	1.5	1.4	SAW
JN12014	JN12014-049	63	63.5	0.5	0.5	SAW
JN12014	JN12014-050	63.5	65	1.5	0.8	SAW
JN12014	JN12014-051	65	66	1	0.8	SAW
JN12014	JN12014-052	66	67.3	1.3	0.6	SAW
JN12014	JN12014-053	67.3	68.8	1.5	1.4	SAW
JN12014	JN12014-054	68.8	69.3	0.5	0.4	SAW
JN12014	JN12014-055	69.3	70.5	1.2	0.9	SAW
JN12014	JN12014-056	70.5	71	0.5	0.5	SAW
JN12014	JN12014-057	71	72.2	1.2	0.9	SAW
JN12014	JN12014-058	72.2	73.7	1.5	1	SAW
JN12014	JN12014-059	73.7	74.6	0.9	0.9	SAW
JN12014	JN12014-060	74.6	75.1	0.5	0.5	SAW
JN12014	JN12014-061	75.1	76.2	1.1	0.7	SAW
JN12014	JN12014-062	76.2	77.6	1.4	0.9	SAW
JN12014	JN12014-063	77.6	78.3	0.7	0.6	SAW
JN12014	JN12014-064	78.3	79.3	1	0.5	SAW
JN12014	JN12014-065	79.3	80.2	0.9	0.8	SAW
JN12014	JN12014-066	80.2	80.5	0.3	0.3	SAW
JN12014	JN12014-067	80.5	81	0.5	0.5	SAW
JN12014	JN12014-068	81	82	1	1	SAW
JN12014	JN12014-069	82	82.9	0.9	0.9	SAW
JN12014	JN12014-070	82.9	84.2	1.3	1.5	SAW
JN12014	JN12014-071	84.2	85.2	1	1	SAW
JN12014	JN12014-072	85.2	85.7	0.5	0.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-073	85.7	86.2	0.5	0.5	SAW
JN12014	JN12014-074	86.2	87.3	1.1	0.9	SAW
JN12014	JN12014-075	87.3	88.6	1.3	1.3	SAW
JN12014	JN12014-076	88.6	90	1.4	1.4	SAW
JN12014	JN12014-077	90	91.5	1.5	1.1	SAW
JN12014	JN12014-078	91.5	93	1.5	1.5	SAW
JN12014	JN12014-079	93	94.5	1.5	1.1	SAW
JN12014	JN12014-080	94.5	96	1.5	1.7	SAW
JN12014	JN12014-081	96	97.3	1.3	1.4	SAW
JN12014	JN12014-082	97.3	98.4	1.1	1.1	SAW
JN12014	JN12014-083	98.4	99.5	1.1	0.8	SAW
JN12014	JN12014-084	99.5	100.5	1	1.1	SAW
JN12014	JN12014-085	100.5	101.7	1.2	1.3	SAW
JN12014	JN12014-086	101.7	102.5	0.8	0.6	SAW
JN12014	JN12014-087	102.5	103.7	1.2	1.2	SAW
JN12014	JN12014-088	103.7	104.5	0.8	0.8	SAW
JN12014	JN12014-089	104.5	105.1	0.6	0.5	SAW
JN12014	JN12014-090	105.1	106.2	1.1	1.3	SAW
JN12014	JN12014-091	106.2	107.5	1.3	1.4	SAW
JN12014	JN12014-092	107.5	108	0.5	0.6	SAW
JN12014	JN12014-093	108	108.5	0.5	0.5	SAW
JN12014	JN12014-094	108.5	110	1.5	1.4	SAW
JN12014	JN12014-095	110	111.5	1.5	1.5	SAW
JN12014	JN12014-096	111.5	112.5	1	1	SAW
JN12014	JN12014-097	112.5	113.8	1.3	1.2	SAW
JN12014	JN12014-098	113.8	115.3	1.5	1.5	SAW
JN12014	JN12014-099	115.3	116.3	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-100	116.3	117.3	1	1	SAW
JN12014	JN12014-101	117.3	117.6	0.3	0.3	SAW
JN12014	JN12014-102	117.6	118.6	1	1	SAW
JN12014	JN12014-103	118.6	119.9	1.3	1.3	SAW
JN12014	JN12014-104	119.9	121.3	1.4	1.4	SAW
JN12014	JN12014-105	121.3	122.6	1.3	1.3	SAW
JN12014	JN12014-106	122.6	124	1.4	1.4	SAW
JN12014	JN12014-107	124	124.3	0.3	0.3	SAW
JN12014	JN12014-108	124.3	125.5	1.2	1.2	SAW
JN12014	JN12014-109	125.5	126.5	1	1	SAW
JN12014	JN12014-110	126.5	127.6	1.1	1.1	SAW
JN12014	JN12014-111	127.6	128.8	1.2	1.2	SAW
JN12014	JN12014-112	128.8	129.1	0.3	0.3	SAW
JN12014	JN12014-113	129.1	130.4	1.3	1.2	SAW
JN12014	JN12014-114	130.4	131.9	1.5	1.3	SAW
JN12014	JN12014-115	131.9	133	1.1	1.1	SAW
JN12014	JN12014-116	133	134.5	1.5	1.5	SAW
JN12014	JN12014-117	134.5	136	1.5	1.5	SAW
JN12014	JN12014-118	136	137.5	1.5	1.4	SAW
JN12014	JN12014-119	137.5	139	1.5	1.4	SAW
JN12014	JN12014-120	139	140.5	1.5	1.5	SAW
JN12014	JN12014-121	140.5	142	1.5	1.5	SAW
JN12014	JN12014-122	142	143.5	1.5	1.4	SAW
JN12014	JN12014-123	143.5	145	1.5	1.5	SAW
JN12014	JN12014-124	145	146.5	1.5	1.5	SAW
JN12014	JN12014-125	146.5	148	1.5	1.5	SAW
JN12014	JN12014-126	148	149.4	1.4	1.4	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-127	149.4	150.4	1	0.8	SAW
JN12014	JN12014-128	150.4	150.8	0.4	0.4	SAW
JN12014	JN12014-129	150.8	152.3	1.5	1.5	SAW
JN12014	JN12014-130	152.3	153.6	1.3	1.5	SAW
JN12014	JN12014-131	153.6	154.7	1.1	0.9	SAW
JN12014	JN12014-132	154.7	155.4	0.7	0.8	SAW
JN12014	JN12014-133	155.4	156.5	1.1	1.1	SAW
JN12014	JN12014-134	156.5	158	1.5	1.4	SAW
JN12014	JN12014-135	158	159.5	1.5	1.4	SAW
JN12014	JN12014-136	159.5	161	1.5	1.5	SAW
JN12014	JN12014-137	161	161.5	0.5	0.4	SAW
JN12014	JN12014-138	161.5	163	1.5	1.5	SAW
JN12014	JN12014-139	163	164.5	1.5	1.5	SAW
JN12014	JN12014-140	164.5	166	1.5	1.5	SAW
JN12014	JN12014-141	166	167.5	1.5	1.3	SAW
JN12014	JN12014-142	167.5	169	1.5	1.4	SAW
JN12014	JN12014-143	169	170.5	1.5	1.5	SAW
JN12014	JN12014-144	170.5	171.6	1.1	1.1	SAW
JN12014	JN12014-145	171.6	172.6	1	1	SAW
JN12014	JN12014-146	172.6	173.6	1	1	SAW
JN12014	JN12014-147	173.6	174.6	1	1	SAW
JN12014	JN12014-148	174.6	176	1.4	1.4	SAW
JN12014	JN12014-149	176	177.5	1.5	1.5	SAW
JN12014	JN12014-150	177.5	179	1.5	1.5	SAW
JN12014	JN12014-151	179	180.5	1.5	1.4	SAW
JN12014	JN12014-152	180.5	181.5	1	1	SAW
JN12014	JN12014-153	181.5	182.5	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-154	182.5	183.7	1.2	1.2	SAW
JN12014	JN12014-155	183.7	184.4	0.7	0.7	SAW
JN12014	JN12014-156	184.4	185	0.6	0.6	SAW
JN12014	JN12014-157	185	186.4	1.4	1.4	SAW
JN12014	JN12014-158	186.4	187.2	0.8	0.8	SAW
JN12014	JN12014-159	187.2	187.5	0.3	0.3	SAW
JN12014	JN12014-160	187.5	188.3	0.8	0.8	SAW
JN12014	JN12014-161	188.3	189.1	0.8	0.8	SAW
JN12014	JN12014-162	189.1	190.2	1.1	1.1	SAW
JN12014	JN12014-163	190.2	190.5	0.3	0.2	SAW
JN12014	JN12014-164	190.5	190.9	0.4	0.4	SAW
JN12014	JN12014-165	190.9	192.3	1.4	1.2	SAW
JN12014	JN12014-166	192.3	193.5	1.2	1.2	SAW
JN12014	JN12014-167	193.5	194.3	0.8	0.8	SAW
JN12014	JN12014-168	194.3	194.6	0.3	0.3	SAW
JN12014	JN12014-169	194.6	194.9	0.3	0.3	SAW
JN12014	JN12014-170	194.9	196.1	1.2	1.2	SAW
JN12014	JN12014-171	196.1	196.6	0.5	0.5	SAW
JN12014	JN12014-172	196.6	196.9	0.3	0.3	SAW
JN12014	JN12014-173	196.9	197.2	0.3	0.3	SAW
JN12014	JN12014-174	197.2	198	0.8	0.7	SAW
JN12014	JN12014-175	198	199.5	1.5	1	SAW
JN12014	JN12014-176	199.5	200.6	1.1	1.1	SAW
JN12014	JN12014-177	200.6	201.7	1.1	1.1	SAW
JN12014	JN12014-178	201.7	203.2	1.5	1.2	SAW
JN12014	JN12014-179	203.2	204.7	1.5	1.5	SAW
JN12014	JN12014-180	204.7	206.2	1.5	1.2	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-181	206.2	207.7	1.5	1.5	SAW
JN12014	JN12014-182	207.7	209.2	1.5	1.5	SAW
JN12014	JN12014-183	209.2	210.7	1.5	1.4	SAW
JN12014	JN12014-184	210.7	212.2	1.5	1.2	SAW
JN12014	JN12014-185	212.2	213.5	1.3	1.3	SAW
JN12014	JN12014-186	213.5	214	0.5	0.5	SAW
JN12014	JN12014-187	214	214.5	0.5	0.5	SAW
JN12014	JN12014-188	214.5	215	0.5	0.5	SAW
JN12014	JN12014-189	215	216	1	0.9	SAW
JN12014	JN12014-190	216	217	1	0.9	SAW
JN12014	JN12014-191	217	217.4	0.4	0.3	SAW
JN12014	JN12014-192	217.4	217.7	0.3	0.3	SAW
JN12014	JN12014-193	217.7	219	1.3	1.3	SAW
JN12014	JN12014-194	219	219.8	0.8	0.8	SAW
JN12014	JN12014-195	219.8	221	1.2	1.1	SAW
JN12014	JN12014-196	221	221.5	0.5	0.5	SAW
JN12014	JN12014-197	221.5	222.6	1.1	1.1	SAW
JN12014	JN12014-198	223.9	224.2	0.3	0.3	SAW
JN12014	JN12014-199	224.2	224.5	0.3	0.3	SAW
JN12014	JN12014-200	224.5	224.8	0.3	0.3	SAW
JN12014	JN12014-201	224.8	226	1.2	1.2	SAW
JN12014	JN12014-202	226	227.5	1.5	0.9	SAW
JN12014	JN12014-203	227.5	228.5	1	1	SAW
JN12014	JN12014-204	228.5	229.5	1	0.9	SAW
JN12014	JN12014-205	229.5	231	1.5	1.1	SAW
JN12014	JN12014-206	231	231.8	0.8	0.8	SAW
JN12014	JN12014-207	234	235	1	0.9	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12014	JN12014-208	270.8	271.8	1	0.9	SAW
JN12014	JN12014-209	274.5	275	0.5	0.5	SAW
JN12014	JN12014-210	275	276.1	1.1	0.5	SAW
JN12014	JN12014-211	277.1	278.1	1	1	SAW
JN12014	JN12014-212	278.1	278.4	0.3	0.3	SAW
JN12014	JN12014-213	278.4	279	0.6	0.6	SAW
JN12014	JN12014-214	286	286.7	0.7	0.7	SAW
JN12014	JN12014-215	289.7	290.3	0.6	0.6	SAW
JN12014	JN12014-216	294.8	295.9	1.1	1.1	SAW
JN12014	JN12014-217	295.9	297	1.1	1	SAW
JN12015	JN12015-001	3.5	4.5	1	0.8	SAW
JN12015	JN12015-002	4.5	6	1.5	0.9	SAW
JN12015	JN12015-003	6	7	1	0.4	SAW
JN12015	JN12015-004	7	8	1	0.4	SAW
JN12015	JN12015-005	8	9	1	0.3	SAW
JN12015	JN12015-006	9	10.5	1.5	0.8	SAW
JN12015	JN12015-007	10.5	12	1.5	0.3	SAW
JN12015	JN12015-008	12	12.5	0.5	0.2	SAW
JN12015	JN12015-009	12.5	13.5	1	0.6	SAW
JN12015	JN12015-010	13.5	15	1.5	0.7	SAW
JN12015	JN12015-011	15	16.5	1.5	1	SAW
JN12015	JN12015-012	16.5	18	1.5	0.7	SAW
JN12015	JN12015-013	18	19.5	1.5	0.6	SAW
JN12015	JN12015-014	19.5	21	1.5	1	SAW
JN12016	JN12016-001	7	8.5	1.5	1.4	SAW
JN12016	JN12016-002	8.5	10	1.5	1.5	SAW
JN12016	JN12016-003	10	11.5	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-004	11.5	12.5	1	1	SAW
JN12016	JN12016-005	12.5	13.7	1.2	1.2	SAW
JN12016	JN12016-006	13.7	14	0.3	0.3	SAW
JN12016	JN12016-007	14	15.5	1.5	0.9	SAW
JN12016	JN12016-008	15.5	17	1.5	1.4	SAW
JN12016	JN12016-009	17	18.5	1.5	1.4	SAW
JN12016	JN12016-010	18.5	20	1.5	1.4	SAW
JN12016	JN12016-011	20	21.5	1.5	1.5	SAW
JN12016	JN12016-012	21.5	23	1.5	1.3	SAW
JN12016	JN12016-013	23	24.5	1.5	1.5	SAW
JN12016	JN12016-014	24.5	25.3	0.8	0.8	SAW
JN12016	JN12016-015	25.3	26.2	0.9	0.7	SAW
JN12016	JN12016-016	26.2	26.6	0.4	0.4	SAW
JN12016	JN12016-017	26.6	28	1.4	1.4	SAW
JN12016	JN12016-018	28	29.5	1.5	1.5	SAW
JN12016	JN12016-019	29.5	31	1.5	1.5	SAW
JN12016	JN12016-020	31	32.5	1.5	1.4	SAW
JN12016	JN12016-021	32.5	34	1.5	1.5	SAW
JN12016	JN12016-022	34	35.5	1.5	1.4	SAW
JN12016	JN12016-023	35.5	37	1.5	1.5	SAW
JN12016	JN12016-024	37	38.5	1.5	1.5	SAW
JN12016	JN12016-025	38.5	40	1.5	1.5	SAW
JN12016	JN12016-026	40	41.5	1.5	1.5	SAW
JN12016	JN12016-027	41.5	43	1.5	1.5	SAW
JN12016	JN12016-028	43	44.5	1.5	1.5	SAW
JN12016	JN12016-029	44.5	46	1.5	1.5	SAW
JN12016	JN12016-030	46	47.5	1.5	1.3	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-031	47.5	49	1.5	1.5	SAW
JN12016	JN12016-032	49	49.8	0.8	0.8	SAW
JN12016	JN12016-033	49.8	50.6	0.8	0.8	SAW
JN12016	JN12016-034	50.6	51.8	1.2	1.2	SAW
JN12016	JN12016-035	51.8	52.6	0.8	0.7	SAW
JN12016	JN12016-036	52.6	53.8	1.2	0.6	SAW
JN12016	JN12016-037	53.8	54.6	0.8	0.8	SAW
JN12016	JN12016-038	54.6	56	1.4	1.5	SAW
JN12016	JN12016-039	59.8	60	0.2	0.2	SAW
JN12016	JN12016-040	61.4	62.6	1.2	1.2	SAW
JN12016	JN12016-041	62.6	63.5	0.9	0.9	SAW
JN12016	JN12016-042	63.5	64.7	1.2	1.2	SAW
JN12016	JN12016-043	64.7	66	1.3	1.3	SAW
JN12016	JN12016-044	66.3	67.5	1.2	1.2	SAW
JN12016	JN12016-045	67.5	68	0.5	0.5	SAW
JN12016	JN12016-046	68	69.2	1.2	1.2	SAW
JN12016	JN12016-047	69.2	70.1	0.9	0.9	SAW
JN12016	JN12016-048	70.1	71.5	1.4	1.4	SAW
JN12016	JN12016-049	71.5	73	1.5	1.5	SAW
JN12016	JN12016-050	73	74.5	1.5	1.1	SAW
JN12016	JN12016-051	74.5	75.5	1	1	SAW
JN12016	JN12016-052	75.5	76.2	0.7	0.7	SAW
JN12016	JN12016-053	76.2	76.5	0.3	0.3	SAW
JN12016	JN12016-054	77.8	78.5	0.7	0.6	SAW
JN12016	JN12016-055	78.5	79.5	1	0.6	SAW
JN12016	JN12016-056	80.7	82	1.3	1.1	SAW
JN12016	JN12016-057	82	82.3	0.3	0.2	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-058	84	85.5	1.5	0.6	SAW
JN12016	JN12016-059	85.5	87	1.5	1.5	SAW
JN12016	JN12016-060	87	87.3	0.3	0.3	SAW
JN12016	JN12016-061	89	89.5	0.5	0.5	SAW
JN12016	JN12016-062	89.5	90	0.5	0.3	SAW
JN12016	JN12016-063	90	91	1	0.9	SAW
JN12016	JN12016-064	91	92	1	0.9	SAW
JN12016	JN12016-065	92	93	1	0.8	SAW
JN12016	JN12016-066	94.2	94.8	0.6	0.4	SAW
JN12016	JN12016-067	94.8	95.6	0.8	0.8	SAW
JN12016	JN12016-068	95.6	97	1.4	1.4	SAW
JN12016	JN12016-069	97	98	1	0.7	SAW
JN12016	JN12016-070	98	99	1	0.5	SAW
JN12016	JN12016-071	99	100	1	0.7	SAW
JN12016	JN12016-072	100	101	1	1	SAW
JN12016	JN12016-073	101	102	1	0.9	SAW
JN12016	JN12016-074	102	103	1	1	SAW
JN12016	JN12016-075	104	104.7	0.7	0.7	SAW
JN12016	JN12016-076	104.7	105.5	0.8	0.8	SAW
JN12016	JN12016-077	105.5	106.3	0.8	0.4	SAW
JN12016	JN12016-078	106.3	107.3	1	1	SAW
JN12016	JN12016-079	107.3	108	0.7	0.7	SAW
JN12016	JN12016-080	108	109	1	1	SAW
JN12016	JN12016-081	109	110.1	1.1	1	SAW
JN12016	JN12016-082	110.1	110.9	0.8	0.8	SAW
JN12016	JN12016-083	110.9	111.2	0.3	0.3	SAW
JN12016	JN12016-084	111.2	112.6	1.4	1.2	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-085	112.6	113.2	0.6	0.6	SAW
JN12016	JN12016-086	113.2	113.5	0.3	0.3	SAW
JN12016	JN12016-087	113.5	114.3	0.8	0.7	SAW
JN12016	JN12016-088	114.3	115.4	1.1	1	SAW
JN12016	JN12016-089	115.4	116.6	1.2	1	SAW
JN12016	JN12016-090	116.6	117.7	1.1	1.1	SAW
JN12016	JN12016-091	117.7	118	0.3	0.3	SAW
JN12016	JN12016-092	118	118.4	0.4	0.4	SAW
JN12016	JN12016-093	118.4	119.4	1	1	SAW
JN12016	JN12016-094	119.4	120.9	1.5	1.5	SAW
JN12016	JN12016-095	120.9	122.4	1.5	1.5	SAW
JN12016	JN12016-096	122.4	123	0.6	0.6	SAW
JN12016	JN12016-097	123	123.3	0.3	0.3	SAW
JN12016	JN12016-098	123.3	124.7	1.4	1.4	SAW
JN12016	JN12016-099	124.7	126.2	1.5	1.5	SAW
JN12016	JN12016-100	126.2	127.7	1.5	1.5	SAW
JN12016	JN12016-101	127.7	129	1.3	1.3	SAW
JN12016	JN12016-102	129	130.5	1.5	1.5	SAW
JN12016	JN12016-103	130.5	131.3	0.8	0.8	SAW
JN12016	JN12016-104	131.3	132	0.7	0.7	SAW
JN12016	JN12016-105	132	132.5	0.5	0.5	SAW
JN12016	JN12016-106	132.5	133.2	0.7	0.7	SAW
JN12016	JN12016-107	133.2	133.6	0.4	0.4	SAW
JN12016	JN12016-108	133.6	134	0.4	0.4	SAW
JN12016	JN12016-109	134	135	1	1	SAW
JN12016	JN12016-110	135	136.5	1.5	1.5	SAW
JN12016	JN12016-111	136.5	137.6	1.1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-112	137.6	138.7	1.1	1.1	SAW
JN12016	JN12016-113	138.7	139.8	1.1	1.1	SAW
JN12016	JN12016-114	139.8	141.2	1.4	1.4	SAW
JN12016	JN12016-115	141.2	142.7	1.5	1.5	SAW
JN12016	JN12016-116	142.7	143.8	1.1	1.1	SAW
JN12016	JN12016-117	143.8	144.8	1	1	SAW
JN12016	JN12016-118	144.8	145.8	1	1	SAW
JN12016	JN12016-119	145.8	147	1.2	1.2	SAW
JN12016	JN12016-120	147	148.5	1.5	1.5	SAW
JN12016	JN12016-121	148.5	150	1.5	1.5	SAW
JN12016	JN12016-122	150	150.4	0.4	0.4	SAW
JN12016	JN12016-123	150.4	151.6	1.2	1.2	SAW
JN12016	JN12016-124	151.6	152.8	1.2	1.2	SAW
JN12016	JN12016-125	152.8	153.7	0.9	0.8	SAW
JN12016	JN12016-126	153.7	155.2	1.5	1.5	SAW
JN12016	JN12016-127	155.2	156.7	1.5	1.5	SAW
JN12016	JN12016-128	156.7	158.2	1.5	1.5	SAW
JN12016	JN12016-129	158.2	159.5	1.3	1.2	SAW
JN12016	JN12016-130	159.5	160.7	1.2	1.2	SAW
JN12016	JN12016-131	160.7	161.6	0.9	0.9	SAW
JN12016	JN12016-132	161.6	163.1	1.5	1.5	SAW
JN12016	JN12016-133	163.1	164.6	1.5	1.5	SAW
JN12016	JN12016-134	164.6	166.1	1.5	1.4	SAW
JN12016	JN12016-135	166.1	167.3	1.2	1.2	SAW
JN12016	JN12016-136	167.3	168.3	1	0.9	SAW
JN12016	JN12016-137	168.3	169.8	1.5	1.5	SAW
JN12016	JN12016-138	169.8	170.1	0.3	0.2	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-139	170.1	171.5	1.4	1.4	SAW
JN12016	JN12016-140	171.5	173	1.5	1.5	SAW
JN12016	JN12016-141	173	174.5	1.5	1.5	SAW
JN12016	JN12016-142	174.5	176	1.5	1.5	SAW
JN12016	JN12016-143	176	177.2	1.2	1.2	SAW
JN12016	JN12016-144	177.2	177.5	0.3	0.3	SAW
JN12016	JN12016-145	177.5	178.3	0.8	0.8	SAW
JN12016	JN12016-146	178.3	178.9	0.6	0.6	SAW
JN12016	JN12016-147	178.9	180	1.1	1.1	SAW
JN12016	JN12016-148	180	180.6	0.6	0.6	SAW
JN12016	JN12016-149	180.6	181.4	0.8	0.8	SAW
JN12016	JN12016-150	181.4	182.2	0.8	0.8	SAW
JN12016	JN12016-151	182.2	183	0.8	0.8	SAW
JN12016	JN12016-152	183	183.5	0.5	0.5	SAW
JN12016	JN12016-153	183.5	184.5	1	1	SAW
JN12016	JN12016-154	184.5	186	1.5	1.5	SAW
JN12016	JN12016-155	186	187.5	1.5	1.3	SAW
JN12016	JN12016-156	187.5	189	1.5	1.3	SAW
JN12016	JN12016-157	189	190.5	1.5	1.4	SAW
JN12016	JN12016-158	190.5	191.2	0.7	0.7	SAW
JN12016	JN12016-159	191.2	192.5	1.3	1.3	SAW
JN12016	JN12016-160	192.5	193.7	1.2	1.2	SAW
JN12016	JN12016-161	193.7	195	1.3	1.3	SAW
JN12016	JN12016-162	195	195.3	0.3	0.3	SAW
JN12016	JN12016-163	195.3	196.3	1	1	SAW
JN12016	JN12016-164	197.6	199	1.4	1.3	SAW
JN12016	JN12016-165	199	200.5	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12016	JN12016-166	200.5	202	1.5	1.4	SAW
JN12016	JN12016-167	202	203.5	1.5	1.5	SAW
JN12016	JN12016-168	203.5	205	1.5	1.5	SAW
JN12016	JN12016-169	217	218.5	1.5	1.5	SAW
JN12016	JN12016-170	218.5	220	1.5	1.6	SAW
JN12016	JN12016-171	220	220.3	0.3	0.3	SAW
JN12016	JN12016-172	220.3	221.8	1.5	1.2	SAW
JN12016	JN12016-173	234.9	235.9	1	1	SAW
JN12016	JN12016-174	248.6	249.6	1	1	SAW
JN12016	JN12016-175	249.6	250	0.4	0.4	SAW
JN12016	JN12016-176	250	251	1	1	SAW
JN12016	JN12016-177	271	272.1	1.1	1	SAW
JN12016	JN12016-178	272.1	272.4	0.3	0.3	SAW
JN12016	JN12016-179	272.4	273	0.6	0.6	SAW
JN12016	JN12016-180	273	273.8	0.8	0.7	SAW
JN12016	JN12016-181	273.8	275	1.2	1.2	SAW
JN12016	JN12016-182	298.5	300	1.5	1.5	SAW
JN12017	JN12017-001	45	45.5	0.5	0.5	SAW
JN12017	JN12017-002	48.9	50.4	1.5	1.5	SAW
JN12017	JN12017-003	50.4	51.9	1.5	1.5	SAW
JN12017	JN12017-004	51.9	53.4	1.5	1.4	SAW
JN12017	JN12017-005	53.4	54.9	1.5	1.4	SAW
JN12017	JN12017-006	54.9	56.4	1.5	1.1	SAW
JN12017	JN12017-007	56.4	57.5	1.1	0.3	SAW
JN12017	JN12017-008	57.5	58.6	1.1	1.0	SAW
JN12017	JN12017-009	58.6	60.1	1.5	1.5	SAW
JN12017	JN12017-010	60.1	61.6	1.5	1.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12017	JN12017-011	61.6	63.1	1.5	1.4	SAW
JN12017	JN12017-012	63.1	64.6	1.5	1.4	SAW
JN12017	JN12017-013	64.6	66.1	1.5	1.5	SAW
JN12017	JN12017-014	66.1	67.6	1.5	1.5	SAW
JN12017	JN12017-015	67.6	69.1	1.5	1.4	SAW
JN12017	JN12017-016	69.1	70.1	1	1	SAW
JN12017	JN12017-017	70.1	71	0.9	0.9	SAW
JN12017	JN12017-018	71	72.5	1.5	1.5	SAW
JN12017	JN12017-019	72.5	74	1.5	1.3	SAW
JN12017	JN12017-020	74	75.5	1.5	1.4	SAW
JN12017	JN12017-021	75.5	76.4	0.9	0.8	SAW
JN12017	JN12017-022	76.4	77.4	1	1	SAW
JN12017	JN12017-023	79.4	80.9	1.5	1.4	SAW
JN12017	JN12017-024	80.9	82.4	1.5	1.1	SAW
JN12017	JN12017-025	82.4	84	1.6	1.0	SAW
JN12017	JN12017-026	84	85.5	1.5	0.9	SAW
JN12017	JN12017-027	85.5	87	1.5	1.4	SAW
JN12017	JN12017-028	87	88.5	1.5	1.5	SAW
JN12017	JN12017-029	90	91.1	1.1	1.1	SAW
JN12017	JN12017-030	94	94.5	0.5	0.5	SAW
JN12017	JN12017-031	94.5	96	1.5	1.5	SAW
JN12017	JN12017-032	100	101	1	1	SAW
JN12018	JN12018-001	41.1	42	0.9	0.6	SAW
JN12018	JN12018-002	42	42.7	0.7	0.5	SAW
JN12018	JN12018-003	42.7	43	0.3	0.2	SAW
JN12018	JN12018-004	44.8	45.8	1	0.8	SAW
JN12018	JN12018-005	45.8	46.7	0.9	0.9	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-006	46.7	48	1.3	1.2	SAW
JN12018	JN12018-007	48	49.5	1.5	1.3	SAW
JN12018	JN12018-008	49.5	51	1.5	1.3	SAW
JN12018	JN12018-009	51	51.5	0.5	0.4	SAW
JN12018	JN12018-010	51.5	52.5	1	0.9	SAW
JN12018	JN12018-011	52.5	54	1.5	1.2	SAW
JN12018	JN12018-012	54	55.5	1.5	1.3	SAW
JN12018	JN12018-013	64.7	66	1.3	1.3	SAW
JN12018	JN12018-014	66	66.4	0.4	0.4	SAW
JN12018	JN12018-015	66.4	66.7	0.3	0.3	SAW
JN12018	JN12018-016	66.7	67	0.3	0.3	SAW
JN12018	JN12018-017	67	68	1	1	SAW
JN12018	JN12018-018	68	69	1	0.2	SAW
JN12018	JN12018-019	69	69.3	0.3	0.3	SAW
JN12018	JN12018-020	69.3	70.2	0.9	0.9	SAW
JN12018	JN12018-021	70.2	70.8	0.6	0.4	SAW
JN12018	JN12018-022	70.8	72	1.2	1.2	SAW
JN12018	JN12018-023	72	73.5	1.5	1.3	SAW
JN12018	JN12018-024	73.5	73.9	0.4	0.4	SAW
JN12018	JN12018-025	73.9	74.4	0.5	0.4	SAW
JN12018	JN12018-026	74.4	75.9	1.5	1.4	SAW
JN12018	JN12018-027	75.9	76.8	0.9	0.6	SAW
JN12018	JN12018-028	83.9	84.2	0.3	0.3	SAW
JN12018	JN12018-029	126.2	127.7	1.5	1.0	SAW
JN12018	JN12018-030	127.7	129	1.3	1.3	SAW
JN12018	JN12018-031	129	130.4	1.4	1.3	SAW
JN12018	JN12018-032	156	157.5	1.5	1.4	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-033	170.2	171	0.8	0.7	SAW
JN12018	JN12018-034	172.1	172.5	0.4	0.3	SAW
JN12018	JN12018-035	172.5	173.3	0.8	0.4	SAW
JN12018	JN12018-036	173.3	174.8	1.5	1.4	SAW
JN12018	JN12018-037	174.8	176.3	1.5	1.3	SAW
JN12018	JN12018-038	176.3	177.2	0.3	0.8	SAW
JN12018	JN12018-039	177.2	178.6	1.4	0.8	SAW
JN12018	JN12018-040	178.6	180	1.4	0.9	SAW
JN12018	JN12018-041	180	181.5	1.5	1.4	SAW
JN12018	JN12018-042	181.5	183	1.5	1.2	SAW
JN12018	JN12018-043	183	184.5	1.5	1.0	SAW
JN12018	JN12018-044	184.5	186	1.5	1.5	SAW
JN12018	JN12018-045	186	187.1	1.1	0.9	SAW
JN12018	JN12018-046	187.1	187.5	0.4	0.3	SAW
JN12018	JN12018-047	187.5	189	1.5	1.4	SAW
JN12018	JN12018-048	189	190.5	1.5	1.5	SAW
JN12018	JN12018-049	190.5	192	1.5	1.4	SAW
JN12018	JN12018-050	192	193.5	1.5	1.4	SAW
JN12018	JN12018-051	193.5	195	1.5	1.5	SAW
JN12018	JN12018-052	195	196	1	1	SAW
JN12018	JN12018-053	196	197	1	1	SAW
JN12018	JN12018-054	197	197.6	0.6	0.4	SAW
JN12018	JN12018-055	197.6	199	1.4	1.2	SAW
JN12018	JN12018-056	199	200.2	1.2	1.1	SAW
JN12018	JN12018-057	200.2	201.5	1.3	1.3	SAW
JN12018	JN12018-058	201.5	202	0.5	0.5	SAW
JN12018	JN12018-059	202	203	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-060	203	204	1	1	SAW
JN12018	JN12018-061	204	204.9	0.9	0.7	SAW
JN12018	JN12018-062	204.9	205.9	1	1.0	SAW
JN12018	JN12018-063	205.9	206.6	0.7	0.7	SAW
JN12018	JN12018-064	206.6	207.6	1	0.9	SAW
JN12018	JN12018-065	207.6	208.5	0.9	0.9	SAW
JN12018	JN12018-066	208.5	209.3	0.8	0.8	SAW
JN12018	JN12018-067	209.3	209.9	0.6	0.6	SAW
JN12018	JN12018-068	209.9	210.3	0.4	0.4	SAW
JN12018	JN12018-069	210.3	210.6	0.3	0.3	SAW
JN12018	JN12018-070	210.6	211.7	1.1	1.1	SAW
JN12018	JN12018-071	211.7	213	1.3	1.3	SAW
JN12018	JN12018-072	213	214.4	1.4	1.4	SAW
JN12018	JN12018-073	214.4	215.8	1.4	1.4	SAW
JN12018	JN12018-074	215.8	216.7	0.9	0.9	SAW
JN12018	JN12018-075	216.7	217.4	0.7	0.5	SAW
JN12018	JN12018-076	217.4	218.1	0.7	0.7	SAW
JN12018	JN12018-077	218.1	218.8	0.7	0.7	SAW
JN12018	JN12018-078	218.8	219.1	0.3	0.3	SAW
JN12018	JN12018-079	219.1	219.6	0.5	0.3	SAW
JN12018	JN12018-080	219.6	221	1.4	1.4	SAW
JN12018	JN12018-081	221	222.3	1.3	1.2	SAW
JN12018	JN12018-082	222.3	223.2	0.9	0.9	SAW
JN12018	JN12018-083	223.2	223.9	0.7	0.7	SAW
JN12018	JN12018-084	223.9	224.2	0.3	0.3	SAW
JN12018	JN12018-085	224.2	225	0.8	0.8	SAW
JN12018	JN12018-086	225	225.3	0.3	0.3	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-087	225.3	226.2	0.9	0.8	SAW
JN12018	JN12018-088	226.2	227.1	0.3	0.3	SAW
JN12018	JN12018-089	227.1	227.4	0.3	0.3	SAW
JN12018	JN12018-090	227.4	228	0.6	0.6	SAW
JN12018	JN12018-091	228	228.4	0.4	0.4	SAW
JN12018	JN12018-092	228.4	229.1	0.7	0.7	SAW
JN12018	JN12018-093	229.1	230	0.9	0.6	SAW
JN12018	JN12018-094	230	230.4	0.4	0.4	SAW
JN12018	JN12018-095	230.4	230.9	0.5	0.5	SAW
JN12018	JN12018-096	230.9	231.7	0.8	0.8	SAW
JN12018	JN12018-097	231.7	233.2	1.1	1.0	SAW
JN12018	JN12018-098	233.2	234.3	1.1	1.0	SAW
JN12018	JN12018-099	234.3	235.4	1.1	0.9	SAW
JN12018	JN12018-100	235.4	236.3	0.9	0.9	SAW
JN12018	JN12018-101	236.3	237	0.7	0.7	SAW
JN12018	JN12018-102	237	238.3	1.3	1.3	SAW
JN12018	JN12018-103	238.3	239.2	0.9	0.9	SAW
JN12018	JN12018-104	239.2	240	0.8	0.8	SAW
JN12018	JN12018-105	240	241	1	1	SAW
JN12018	JN12018-106	241	242	1	1	SAW
JN12018	JN12018-107	242	243	1	0.9	SAW
JN12018	JN12018-108	243	244	1	0.9	SAW
JN12018	JN12018-109	244	244.7	0.7	0.7	SAW
JN12018	JN12018-110	244.7	246	1.3	1.3	SAW
JN12018	JN12018-111	246	247	1	1	SAW
JN12018	JN12018-112	247	248	1	1	SAW
JN12018	JN12018-113	248	249	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-114	249	250	1	1	SAW
JN12018	JN12018-115	250	251	1	1	SAW
JN12018	JN12018-116	251	252	1	1	SAW
JN12018	JN12018-117	252	253	1	1	SAW
JN12018	JN12018-118	253	254	1	1	SAW
JN12018	JN12018-119	254	254.3	1	1	SAW
JN12018	JN12018-120	254.3	255	0.7	0.6	SAW
JN12018	JN12018-121	255	255.9	0.9	0.8	SAW
JN12018	JN12018-122	255.9	256.2	0.3	0.3	SAW
JN12018	JN12018-123	256.2	256.5	0.3	0.3	SAW
JN12018	JN12018-124	256.5	257	0.5	0.5	SAW
JN12018	JN12018-125	257	257.7	0.7	0.6	SAW
JN12018	JN12018-126	257.7	258.3	0.6	0.6	SAW
JN12018	JN12018-127	258.3	258.6	0.3	0.3	SAW
JN12018	JN12018-128	258.6	259	0.4	0.4	SAW
JN12018	JN12018-129	259	260	1	0.5	SAW
JN12018	JN12018-130	260	260.3	0.3	0.3	SAW
JN12018	JN12018-131	260.3	261	0.7	0.6	SAW
JN12018	JN12018-132	261	262	1	1.0	SAW
JN12018	JN12018-133	262	262.6	0.6	0.5	SAW
JN12018	JN12018-134	262.6	263.6	1	1.0	SAW
JN12018	JN12018-135	263.6	264.4	0.8	0.8	SAW
JN12018	JN12018-136	264.4	264.9	0.5	0.4	SAW
JN12018	JN12018-137	264.9	265.8	0.9	0.9	SAW
JN12018	JN12018-138	265.8	266.8	1	1	SAW
JN12018	JN12018-139	266.8	267.9	1.1	1.1	SAW
JN12018	JN12018-140	267.9	268.4	0.5	0.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-141	268.4	268.9	0.5	0.5	SAW
JN12018	JN12018-142	268.9	269.2	0.3	0.3	SAW
JN12018	JN12018-143	269.2	269.5	0.3	0.3	SAW
JN12018	JN12018-144	269.5	270	0.5	0.5	SAW
JN12018	JN12018-145	270	271	1	1	SAW
JN12018	JN12018-146	271	272	1	1	SAW
JN12018	JN12018-147	272	272.9	0.9	0.8	SAW
JN12018	JN12018-148	272.9	273.2	0.3	0.3	SAW
JN12018	JN12018-149	273.2	274	0.8	0.8	SAW
JN12018	JN12018-150	274	274.8	0.8	0.8	SAW
JN12018	JN12018-151	274.8	275.8	1	1	SAW
JN12018	JN12018-152	275.8	276.9	1.1	1.1	SAW
JN12018	JN12018-153	276.9	277.4	0.5	0.5	SAW
JN12018	JN12018-154	277.4	278	0.6	0.6	SAW
JN12018	JN12018-155	278	279	1	1	SAW
JN12018	JN12018-156	279	279.6	0.6	0.6	SAW
JN12018	JN12018-157	279.6	280.4	0.8	0.8	SAW
JN12018	JN12018-158	280.4	281	0.6	0.6	SAW
JN12018	JN12018-159	281	282	1	0.9	SAW
JN12018	JN12018-160	282	283	1	0.8	SAW
JN12018	JN12018-161	283	284	1	0.9	SAW
JN12018	JN12018-162	284	284.5	0.5	0.2	SAW
JN12018	JN12018-163	284.5	285	0.5	0.4	SAW
JN12018	JN12018-164	285	286.4	1.4	1.1	SAW
JN12018	JN12018-165	286.4	286.8	0.4	0.4	SAW
JN12018	JN12018-166	286.8	287.8	1	1	SAW
JN12018	JN12018-167	287.8	288.8	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12018	JN12018-168	300	301	1	0.9	SAW
JN12018	JN12018-169	301	302.1	1.1	1	SAW
JN12018	JN12018-170	304.3	305	0.7	0.7	SAW
JN12018	JN12018-171	305	306.1	1.1	1.1	SAW
JN12018	JN12018-172	306.1	307	0.9	0.8	SAW
JN12018	JN12018-173	307	308.2	1.2	1.2	SAW
JN12018	JN12018-174	308.2	309.2	1	0.9	SAW
JN12018	JN12018-175	309.2	310.1	0.9	0.9	SAW
JN12018	JN12018-176	310.1	311	0.9	0.9	SAW
JN12018	JN12018-177	311	312	1	1	SAW
JN12019	JN12019-001	39.5	40.5	1	0.6	SAW
JN12019	JN12019-002	40.5	41.5	1	0.7	SAW
JN12019	JN12019-003	41.5	42.5	1	0.9	SAW
JN12019	JN12019-004	42.5	43.5	1	1	SAW
JN12019	JN12019-005	43.5	45	1.5	0.6	SAW
JN12019	JN12019-006	46.6	47.1	0.5	0.5	SAW
JN12019	JN12019-007	47.1	48	0.9	0.8	SAW
JN12019	JN12019-008	48	48.9	0.9	0.8	SAW
JN12019	JN12019-009	48.9	49.8	0.9	0.9	SAW
JN12019	JN12019-010	49.8	50.9	1.1	1.1	SAW
JN12019	JN12019-011	51.8	52.1	0.3	0.3	SAW
JN12019	JN12019-012	59.7	60.1	0.4	0.4	SAW
JN12019	JN12019-013	63	63.3	0.3	0.3	SAW
JN12019	JN12019-014	70.6	71.4	0.8	0.8	SAW
JN12019	JN12019-015	71.4	72	0.6	0.5	SAW
JN12019	JN12019-016	72	73	1	0.9	SAW
JN12019	JN12019-017	73	74	1	1	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12019	JN12019-018	74	74.5	0.5	1	SAW
JN12019	JN12019-019	74.5	75.5	1	0.9	SAW
JN12019	JN12019-020	75.5	76.5	1	1	SAW
JN12019	JN12019-021	76.5	77.5	1	0.9	SAW
JN12019	JN12019-022	77.5	78.5	1	1	SAW
JN12019	JN12019-023	78.5	79.5	1	1	SAW
JN12019	JN12019-024	79.5	80.5	1	1	SAW
JN12019	JN12019-025	80.5	81.5	1	0.8	SAW
JN12019	JN12019-026	81.5	82.5	1	0.9	SAW
JN12019	JN12019-027	82.5	83.5	1	0.8	SAW
JN12019	JN12019-028	83.5	84.5	1	0.8	SAW
JN12019	JN12019-029	84.5	85.7	1.2	1	SAW
JN12019	JN12019-030	85.7	86.5	0.8	0.8	SAW
JN12019	JN12019-031	86.5	87.5	1	0.9	SAW
JN12019	JN12019-032	87.5	88.5	1	0.9	SAW
JN12019	JN12019-033	88.5	89.5	1	0.8	SAW
JN12019	JN12019-034	89.5	90.5	1	0.9	SAW
JN12019	JN12019-035	90.5	91	0.5	0.4	SAW
JN12019	JN12019-036	91	91.7	0.7	0.6	SAW
JN12019	JN12019-037	91.7	92.4	0.7	0.7	SAW
JN12019	JN12019-038	92.4	92.9	0.5	0.4	SAW
JN12019	JN12019-039	92.9	93.2	0.3	0.3	SAW
JN12019	JN12019-040	93.2	94.3	1.1	1.1	SAW
JN12019	JN12019-041	94.3	95.4	1.1	0.5	SAW
JN12019	JN12019-042	95.4	96	0.6	0.6	SAW
JN12019	JN12019-043	96	96.5	0.5	0.4	SAW
JN12019	JN12019-044	96.5	97.4	0.9	0.9	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12019	JN12019-045	97.4	98	0.6	0.6	SAW
JN12019	JN12019-046	98	98.9	0.9	0.4	SAW
JN12019	JN12019-047	98.9	99.8	0.9	0.8	SAW
JN12019	JN12019-048	102	102.6	0.6	0.5	SAW
JN12019	JN12019-049	102.6	103.2	0.6	0.6	SAW
JN12019	JN12019-050	103.2	103.5	0.3	0.3	SAW
JN12019	JN12019-051	103.5	104.4	0.9	0.7	SAW
JN12019	JN12019-052	104.4	105.1	0.7	0.6	SAW
JN12019	JN12019-053	105.1	106	0.9	0.9	SAW
JN12019	JN12019-054	106	106.7	0.7	0.7	SAW
JN12019	JN12019-055	106.7	107.4	0.7	0.7	SAW
JN12019	JN12019-056	107.4	108.1	0.7	0.6	SAW
JN12019	JN12019-057	108.1	109	0.9	0.9	SAW
JN12019	JN12019-058	109	109.5	0.5	0.5	SAW
JN12019	JN12019-059	109.5	109.9	0.4	0.3	SAW
JN12019	JN12019-060	109.9	110.5	0.6	0.6	SAW
JN12019	JN12019-061	112	112.5	0.5	0.4	SAW
JN12019	JN12019-062	112.5	113.5	1	1	SAW
JN12019	JN12019-063	113.5	114.5	1	1	SAW
JN12019	JN12019-064	114.5	115.5	1	1	SAW
JN12019	JN12019-065	115.5	116.5	1	0.5	SAW
JN12019	JN12019-066	116.5	117.5	1	1	SAW
JN12019	JN12019-067	117.5	118	0.5	0.4	SAW
JN12019	JN12019-068	118	118.8	0.8	0.8	SAW
JN12019	JN12019-069	118.8	120.1	1.3	1.2	SAW
JN12019	JN12019-070	120.1	121.4	1.3	1.2	SAW
JN12019	JN12019-071	121.4	122	0.6	0.6	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12019	JN12019-072	122	122.5	0.5	0.5	SAW
JN12019	JN12019-073	122.5	123.3	0.8	0.6	SAW
JN12019	JN12019-074	123.3	124	0.7	0.6	SAW
JN12019	JN12019-075	124	124.3	0.3	0.3	SAW
JN12019	JN12019-076	124.3	125	0.7	0.6	SAW
JN12019	JN12019-077	125	125.8	0.8	0.8	SAW
JN12019	JN12019-078	125.8	126.1	0.3	0.3	SAW
JN12019	JN12019-079	126.1	127	0.9	0.9	SAW
JN12019	JN12019-080	127	128	1	0.9	SAW
JN12019	JN12019-081	128	129	1	0.9	SAW
JN12019	JN12019-082	129	130	1	0.9	SAW
JN12019	JN12019-083	130	131	1	1	SAW
JN12019	JN12019-084	131	132	1	0.9	SAW
JN12019	JN12019-085	132	133	1	1	SAW
JN12019	JN12019-086	133	134	1	0.9	SAW
JN12019	JN12019-087	134	135	1	0.8	SAW
JN12019	JN12019-088	135	135.6	0.6	0.6	SAW
JN12019	JN12019-089	135.6	135.9	0.3	0.3	SAW
JN12019	JN12019-090	135.9	136.3	0.4	0.4	SAW
JN12019	JN12019-091	136.3	136.6	0.3	0.3	SAW
JN12019	JN12019-092	136.6	137.5	0.9	0.9	SAW
JN12019	JN12019-093	137.5	138.2	0.7	0.6	SAW
JN12019	JN12019-094	138.2	138.9	0.7	0.7	SAW
JN12019	JN12019-095	138.9	140.1	1.2	1.2	SAW
JN12019	JN12019-096	140.1	140.5	0.4	0.4	SAW
JN12019	JN12019-097	140.5	140.9	0.4	0.4	SAW
JN12019	JN12019-098	140.9	141.4	0.5	0.5	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12019	JN12019-099	141.4	141.8	0.4	0.4	SAW
JN12019	JN12019-100	141.8	142.9	1.1	1.0	SAW
JN12019	JN12019-101	142.9	143.9	1	1.0	SAW
JN12019	JN12019-102	143.9	144.9	1	0.9	SAW
JN12019	JN12019-103	144.9	145.2	0.3	0.3	SAW
JN12019	JN12019-104	145.2	146	0.8	0.8	SAW
JN12019	JN12019-105	146	146.8	0.8	0.8	SAW
JN12019	JN12019-106	146.8	147.6	0.8	0.7	SAW
JN12019	JN12019-107	147.6	148.3	0.7	0.6	SAW
JN12019	JN12019-108	148.3	148.8	0.5	0.5	SAW
JN12019	JN12019-109	148.8	149.4	0.6	0.6	SAW
JN12019	JN12019-110	149.4	150.4	1	1.0	SAW
JN12019	JN12019-111	150.4	151.4	1	1.0	SAW
JN12019	JN12019-112	151.4	152.4	1	1.0	SAW
JN12019	JN12019-113	152.4	153.4	1	1.0	SAW
JN12019	JN12019-114	153.4	154.4	1	1.0	SAW
JN12019	JN12019-115	154.4	154.8	0.4	0.4	SAW
JN12019	JN12019-116	154.8	156	1.2	0.8	SAW
JN12019	JN12019-117	156	158.3	2.3	0.3	SAW
JN12019	JN12019-118	158.3	158.6	0.3	0.3	SAW
JN12019	JN12019-119	158.6	158.9	0.3	0.3	SAW
JN12019	JN12019-120	158.9	159.5	0.6	0.6	SAW
JN12019	JN12019-121	159.5	160	0.5	0.5	SAW
JN12019	JN12019-122	160	161	1	0.9	SAW
JN12019	JN12019-123	161	161.6	0.6	0.6	SAW
JN12019	JN12019-124	161.6	162.8	1.2	1	SAW
JN12019	JN12019-125	162.8	163.4	0.6	0.4	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12019	JN12019-126	163.4	164.4	1	0.6	SAW
JN12019	JN12019-127	164.4	165.5	1.1	1.1	SAW
JN12019	JN12019-128	165.5	167	1.5	1.4	SAW
JN12019	JN12019-129	167	168.5	1.5	1.5	SAW
JN12019	JN12019-130	168.5	170	1.5	1.4	SAW
JN12019	JN12019-131	170	171.5	1.5	1.5	SAW
JN12019	JN12019-132	171.5	173	1.5	1.5	SAW
JN12019	JN12019-133	173	174.1	1.1	1.1	SAW
JN12019	JN12019-134	174.1	174.7	0.6	0.6	SAW
JN12019	JN12019-135	174.7	175.2	0.5	0.5	SAW
JN12019	JN12019-136	175.2	175.5	0.3	0.3	SAW
JN12019	JN12019-137	175.5	176.8	1.3	1.3	SAW
JN12019	JN12019-138	176.8	177.8	1	1	SAW
JN12019	JN12019-139	177.8	178.5	0.7	0.7	SAW
JN12019	JN12019-140	178.5	179.9	1.4	1.4	SAW
JN12019	JN12019-141	179.9	180.9	1	1	SAW
JN12019	JN12019-142	180.9	182	1.1	1.1	SAW
JN12019	JN12019-143	182	183	1	1	SAW
JN12019	JN12019-144	183	184.1	1.1	1.1	SAW
JN12019	JN12019-145	184.1	185	0.9	0.9	SAW
JN12019	JN12019-146	185	186	1	1	SAW
JN12019	JN12019-147	186	186.5	0.5	0.5	SAW
JN12019	JN12019-148	186.5	188	1.5	1.5	SAW
JN12019	JN12019-149	188	189.5	1.5	1.5	SAW
JN12019	JN12019-150	189.5	190.6	1.1	1.1	SAW
JN12019	JN12019-151	190.6	191	0.4	0.4	SAW
JN12019	JN12019-152	191	191.9	0.9	0.9	SAW

DDH	Sample Number	From(m)	To(m)	Interval Length(m)	Recovered Length(m)	Sample Method
JN12019	JN12019-153	191.9	192.5	0.6	0.6	SAW
JN12019	JN12019-154	192.5	192.8	0.3	0.3	SAW
JN12019	JN12019-155	192.8	193.2	0.4	0.4	SAW
JN12019	JN12019-156	193.2	194.2	1	1	SAW
JN12019	JN12019-157	194.2	194.8	0.6	0.6	SAW
JN12019	JN12019-158	194.8	196.3	1.5	1.4	SAW
JN12019	JN12019-159	196.3	197.8	1.5	1.4	SAW
JN12019	JN12019-160	197.8	198.3	0.5	0.4	SAW
JN12019	JN12019-161	198.3	199.4	1.1	0.7	SAW
JN12019	JN12019-162	199.4	199.7	0.3	0.3	SAW
JN12019	JN12019-163	199.7	201	1.3	1	SAW
JN12019	JN12019-164	201	202.5	1.5	1.4	SAW
JN12019	JN12019-165	202.5	204	1.5	1.3	SAW
JN12019	JN12019-166	204	205.5	1.5	1.5	SAW
JN12019	JN12019-167	205.5	207	1.5	1.4	SAW
JN12019	JN12019-168	207	208.5	1.5	1.4	SAW
JN12019	JN12019-169	208.5	210	1.5	1.5	SAW

2012 Diamond Drilling, Geological, Geophysics and Geochemical Report

for the

Justin Property and VF Property

Volume III

Appendix V – Analytical Certificates and Metallurgical Report

Justin 1-4 (YB59913 – YB59916), Justin 5-25 (YB70809 - YB70829), SP 1-50 (YC73232 – YC73281), SP51-55 (YD65452 – YD65456), SP 57-88 (YD87903 – YD87933), SP 89-207 (YF33001 – YF33119) VF 1-144 (YD25701 - YD25844)

Watson Lake Mining District, Southeastern Yukon Territory

Map sheet 105-H-09

Latitude 61° 42' N, Longitude 128°10'W

Prepared for:

Aben Resources Ltd.

Suite 2230 – 885 West Georgia Street

Vancouver, BC, Canada

V6C 3E8

By

Mike McCuaig, B.Sc

TerraLogic Exploration Inc.

Suite 200, 44-12th Ave S.

Cranbrook, B.C., Canada

V1C 2R7

February 15th, 2013

APPENDIX V

Analytical Certificates and Metallurgical Report

5.1 – Rock Samples

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

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 12- AUG- 2012
Account: TELOEX

CERTIFICATE VA12157736

Project:

P.O. No.: JN12- 003

This report is for 1 Other sample submitted to our lab in Vancouver, BC, Canada on 7- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
BAG- 01	Bulk Master for Storage
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
SCR- 21	Screen to - 100 um
FND- 03	Find Reject for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 12- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS VA12157736

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
MMJNR036		3.66	4.07	3.66	0.030	7.37	502.8	3.66	3.65

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

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 12- AUG- 2012
Account: TELOEX

CERTIFICATE WH12179307

Project:

P.O. No.: JN12- 005

This report is for 12 Rock samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
BAG- 01	Bulk Master for Storage
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 12- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179307

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
RZJNR017		0.90	0.277	4.6	0.41	3890	<10	40	<0.5	14	0.05	1.9	4	7	76	10.85
RZJNR018		3.15	0.034	<0.2	0.31	26	<10	30	<0.5	<2	0.05	<0.5	2	9	3	1.62
RZJNR018- B		3.04	<0.005	0.8	0.03	9	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.05
RZJNR018- S		0.03	0.935	0.4	1.99	1440	30	110	<0.5	25	4.22	<0.5	50	27	145	3.98
RZJNR019		1.46	0.092	<0.2	0.54	31	<10	60	<0.5	<2	0.15	<0.5	2	9	9	3.25
RZJNR020		2.44	0.146	<0.2	0.18	74	<10	20	<0.5	<2	0.06	<0.5	4	9	7	3.22
RZJNR021		1.58	0.054	0.2	0.15	15	<10	10	<0.5	2	0.02	<0.5	<1	17	3	10.45
RZJNR022		0.97	0.011	<0.2	0.29	15	<10	40	<0.5	<2	0.01	<0.5	2	11	8	1.80
RZJNR023		1.23	0.032	0.2	0.22	11	<10	30	<0.5	<2	0.02	<0.5	1	9	2	0.99
RZJNR024		1.28	0.030	<0.2	0.30	318	<10	40	<0.5	<2	0.03	<0.5	2	8	5	0.98
LJJNR018		1.27	0.008	13.1	0.23	10	<10	10	<0.5	<2	0.01	1.4	2	11	19	3.12
LJJNR019		0.94	<0.005	<0.2	0.06	4	<10	10	<0.5	<2	9.2	<0.5	<1	8	1	0.44

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 12- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179307

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
RZJNR017		<10	1	0.16	20	0.01	224	<1	0.01	10	720	39	0.09	25	2	40
RZJNR018		<10	<1	0.12	10	<0.01	113	<1	0.01	4	100	5	0.49	11	1	6
RZJNR018- B		<10	<1	<0.01	<10	1.75	22	<1	0.01	<1	50	<2	0.07	2	<1	5140
RZJNR018- S		10	<1	0.19	10	0.63	888	10	0.20	24	840	4	0.34	5	3	127
RZJNR019		<10	<1	0.24	10	0.01	68	<1	0.01	6	60	<2	2.45	13	1	30
RZJNR020		<10	<1	0.09	<10	<0.01	54	<1	0.01	3	20	<2	2.62	23	<1	14
RZJNR021		<10	9	0.05	<10	<0.01	126	<1	0.01	1	20	13	>10.0	65	<1	2
RZJNR022		<10	<1	0.16	10	<0.01	46	<1	0.01	7	50	7	1.11	4	<1	4
RZJNR023		<10	<1	0.16	10	<0.01	62	<1	0.01	2	60	<2	0.40	6	<1	3
RZJNR024		<10	<1	0.16	10	<0.01	42	<1	<0.01	5	180	4	0.44	3	<1	8
LJJNR018		<10	<1	0.07	10	0.01	80	<1	0.01	5	70	3940	0.99	11	<1	2
LJJNR019		<10	1	0.02	<10	0.11	114	<1	0.01	1	260	10	0.01	<2	1	506

ALS Canada Ltd.
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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 12- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179307

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
RZJNR017		<20	<0.01	<10	<10	3	<10	175
RZJNR018		<20	<0.01	<10	<10	2	<10	4
RZJNR018-B		20	<0.01	<10	<10	<1	<10	<2
RZJNR018-S		<20	0.12	<10	<10	65	10	62
RZJNR019		<20	<0.01	<10	<10	4	<10	<2
RZJNR020		<20	<0.01	<10	<10	1	<10	<2
RZJNR021		<20	<0.01	20	<10	1	<10	<2
RZJNR022		<20	<0.01	<10	<10	1	<10	<2
RZJNR023		<20	<0.01	<10	<10	1	<10	<2
RZJNR024		<20	<0.01	<10	<10	1	<10	<2
LJJNR018		<20	<0.01	<10	<10	4	<10	236
LJJNR019		<20	<0.01	<10	<10	<1	<10	3

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE WH12180288

Project:

P.O. No.: JN12- 003

This report is for 72 Rock samples submitted to our lab in Whitehorse, YT, Canada on 2- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
EXTRA- 01	Extra Sample received in Shipment
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
W- XRF05	Trace Level W XRF Analysis	XRF
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180288

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
JKJNR001		1.50	0.017		8.5	0.25	11	<10	20	<0.5	16	0.03	<0.5	<1	14	16
JKJNR002		0.86	0.009		0.8	0.46	11	<10	30	<0.5	2	0.02	<0.5	<1	15	6
JKJNR003		1.22	0.057		0.2	0.26	22	<10	30	<0.5	<2	0.01	<0.5	1	13	11
JKJNR004		1.02	0.049		<0.2	0.60	2	<10	10	<0.5	<2	0.02	<0.5	<1	10	2
JKJNR005		0.70	<0.005		<0.2	0.04	2	<10	50	<0.5	<2	21.8	<0.5	<1	4	1
JKJNR006		0.74	<0.005		<0.2	0.09	3	<10	80	<0.5	<2	>25.0	<0.5	<1	2	1
JKJNR007		1.04	<0.005		<0.2	0.09	<2	<10	70	<0.5	<2	>25.0	<0.5	<1	2	1
JKJNR008		0.88	<0.005		<0.2	6.23	4	<10	1300	2.4	<2	3.41	<0.5	31	97	40
JKJNR009		0.28	<0.005		<0.2	6.15	7	<10	1460	2.3	<2	3.79	<0.5	32	98	40
JKJNR010		0.80	0.006		<0.2	0.34	9	<10	40	<0.5	<2	0.09	<0.5	1	14	6
JKJNR011		1.98	<0.005		<0.2	1.32	39	<10	530	0.5	<2	10.7	<0.5	6	26	9
JKJNR012		1.70	<0.005		<0.2	2.08	8	<10	190	0.8	<2	8.5	<0.5	3	18	10
JKJNR001S		0.08	3.97		58.8	1.99	1070	<10	190	<0.5	<2	1.14	<0.5	9	20	103
JKJNR001B		2.66	0.010		<0.2	0.03	3	<10	<10	<0.5	<2	>25.0	<0.5	<1	<1	<1
LJJNR001		1.98	0.073		<0.2	0.93	5	<10	20	0.5	42	0.34	<0.5	4	22	43
LJJNR002		1.10	4.74		3.4	0.04	12	<10	<10	<0.5	4020	0.23	<0.5	<1	17	10
LJJNR004		1.00	0.012		<0.2	4.35	8	<10	1010	2.2	10	3.10	<0.5	33	77	42
LJJNR005		0.96	0.007		0.4	0.24	26	<10	10	<0.5	5	0.06	<0.5	8	15	101
LJJNR006		1.24	0.433		2.1	0.61	>10000	<10	50	<0.5	169	0.04	<0.5	7	13	39
LJJNR007		1.36	<0.005		1.1	0.11	308	<10	10	<0.5	2	1.65	<0.5	1	16	886
LJJNR008		1.88	<0.005		0.4	0.02	153	<10	<10	<0.5	<2	1.27	0.8	<1	9	270
LJJNR009		1.44	<0.005		<0.2	5.02	22	10	30	1.5	2	7.2	<0.5	2	23	4
LJJNR010		2.54	<0.005		<0.2	0.07	20	<10	10	<0.5	<2	0.09	<0.5	6	19	5
LJVFR001		0.92	<0.005		<0.2	0.03	4	<10	<10	<0.5	<2	0.44	<0.5	<1	11	1
RZJNR001		1.10	0.051		<0.2	0.47	15	<10	10	<0.5	<2	0.80	<0.5	<1	13	7
RZJNR002		1.44	0.129		0.3	0.18	405	<10	10	<0.5	<2	0.02	<0.5	1	8	6
RZJNR003		1.14	<0.005		0.3	1.96	113	<10	50	0.9	<2	0.03	<0.5	602	21	58
RZJNR004		1.66	<0.005		<0.2	0.50	5	<10	20	<0.5	<2	0.09	<0.5	5	22	5
RZJNR005		1.30	0.117		0.4	0.08	37	<10	10	<0.5	9	0.02	<0.5	2	21	12
RZJNR006		1.22	0.307		9.0	0.04	6930	<10	10	<0.5	62	0.02	<0.5	9	19	449
RZJNR007		1.34	<0.005		<0.2	1.19	22	<10	330	0.5	<2	1.10	<0.5	1	23	8
RZJNR008		1.44	<0.005		<0.2	4.81	15	<10	30	1.6	<2	3.97	<0.5	7	27	30
RZVFR001		1.36	<0.005		<0.2	0.44	6	<10	10	<0.5	<2	3.58	<0.5	2	13	6
RZVFR002		1.56	<0.005		<0.2	0.35	2	<10	20	<0.5	<2	2.97	<0.5	4	13	3
RZVFR003		1.28	<0.005		<0.2	0.18	2	<10	20	<0.5	3	4.21	<0.5	3	7	5
RZVFR004		1.44	<0.005		<0.2	6.18	15	<10	1250	2.7	3	1.96	<0.5	27	101	39
JVJNR001		1.54	1.900		1.5	0.28	>10000	10	20	<0.5	792	0.17	<0.5	27	12	14
JVJNR002		1.50	0.057		0.4	0.25	31	<10	20	<0.5	4	0.01	<0.5	3	16	11
JVJNR003		0.80	0.009		0.2	0.26	43	<10	20	<0.5	18	<0.01	<0.5	3	13	36
JVJNR004		1.18	0.202		0.4	2.82	7	<10	20	0.6	14	4.79	<0.5	44	3	417

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180288

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JKJNR001		0.74	<10	1	0.15	10	0.03	63	5	0.01	2	30	812	0.08	4	<1
JKJNR002		0.80	<10	<1	0.20	10	0.03	56	2	0.01	3	40	112	0.07	2	<1
JKJNR003		1.44	<10	1	0.15	10	0.02	65	1	0.01	4	40	12	0.54	14	<1
JKJNR004		0.40	<10	1	0.03	10	0.01	30	<1	0.01	1	60	4	0.06	4	<1
JKJNR005		0.48	<10	1	0.01	10	0.34	613	<1	0.01	1	110	2	0.04	<2	3
JKJNR006		0.43	<10	1	0.04	20	0.57	855	<1	0.02	1	230	4	0.07	<2	3
JKJNR007		0.49	<10	1	0.02	20	0.81	872	<1	0.02	2	190	3	0.01	<2	2
JKJNR008		7.28	10	1	1.34	40	1.39	1160	4	2.52	68	4370	7	0.09	<2	3
JKJNR009		6.69	20	1	1.53	40	1.43	1145	4	2.6	81	4250	5	0.14	<2	2
JKJNR010		1.90	<10	<1	0.09	10	0.03	84	<1	0.03	5	80	9	0.71	2	<1
JKJNR011		1.60	<10	1	0.19	10	0.42	1260	<1	0.15	14	240	19	0.38	<2	3
JKJNR012		1.27	10	1	0.13	10	0.28	391	<1	0.28	9	250	5	0.16	<2	2
JKJNR001S		3.79	<10	1	0.27	10	0.83	493	8	0.24	13	610	9	0.13	15	3
JKJNR001B		0.03	<10	<1	<0.01	<10	1.87	24	<1	0.02	<1	50	<2	0.07	<2	<1
LJJNR001		2.58	<10	<1	0.14	10	0.24	325	2	0.02	14	160	6	0.02	<2	3
LJJNR002		0.89	<10	1	0.02	<10	0.02	94	74	0.01	3	10	50	0.03	67	<1
LJJNR004		5.41	10	1	0.70	60	2.80	963	4	1.22	135	4470	7	0.09	<2	5
LJJNR005		6.39	<10	<1	0.06	10	0.04	171	<1	0.01	13	180	5	2.40	2	1
LJJNR006		11.15	<10	1	0.19	10	0.04	220	<1	0.02	17	270	15	1.10	63	2
LJJNR007		1.14	<10	<1	0.03	<10	0.05	238	<1	0.01	6	30	2	0.10	<2	<1
LJJNR008		0.58	<10	<1	<0.01	<10	0.03	162	<1	0.01	2	10	<2	0.08	<2	<1
LJJNR009		1.41	10	2	0.04	30	0.21	330	<1	0.11	7	580	<2	0.01	2	3
LJJNR010		0.97	<10	1	0.01	<10	0.02	333	1	0.01	6	310	3	<0.01	<2	<1
LJVFR001		1.10	<10	<1	<0.01	<10	0.05	483	<1	0.01	2	60	142	<0.01	<2	1
RZJNR001		1.57	<10	1	0.01	<10	0.02	184	1	0.01	2	90	16	0.17	11	<1
RZJNR002		1.90	<10	<1	0.05	<10	0.01	48	<1	0.01	1	20	16	0.47	2	<1
RZJNR003		6.90	<10	1	0.20	20	0.40	10200	1	0.01	67	760	49	0.09	<2	2
RZJNR004		1.52	<10	<1	0.09	<10	0.19	215	1	0.02	9	170	7	0.01	<2	1
RZJNR005		2.40	<10	1	0.01	<10	0.01	263	4	0.01	2	110	<2	1.19	42	<1
RZJNR006		1.64	<10	<1	0.01	<10	<0.01	98	2	0.01	3	50	340	0.50	49	<1
RZJNR007		1.07	<10	1	0.07	10	0.28	200	1	0.19	5	140	12	0.01	<2	1
RZJNR008		2.97	10	1	0.10	<10	0.30	208	<1	0.43	24	440	6	1.12	2	2
RZVFR001		3.23	<10	<1	0.05	10	0.35	1710	<1	0.02	7	60	4	0.04	<2	2
RZVFR002		1.38	<10	<1	0.08	10	0.11	468	<1	0.03	7	1120	20	0.05	<2	1
RZVFR003		3.14	<10	<1	0.08	10	0.89	1230	<1	0.03	4	90	9	0.02	<2	1
RZVFR004		6.59	20	<1	1.32	50	1.99	1020	6	2.6	76	4160	4	0.10	<2	2
JVJNR001		3.50	<10	<1	0.08	<10	0.02	154	19	0.02	3	40	165	1.44	50	<1
JVJNR002		1.76	<10	<1	0.09	10	0.03	122	5	0.02	4	110	58	0.62	4	1
JVJNR003		2.73	<10	<1	0.10	<10	0.02	72	140	0.01	5	140	13	0.93	5	1
JVJNR004		6.65	10	<1	0.03	10	0.26	1070	<1	0.09	7	260	3	2.94	<2	1

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180288

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2	10
JKJNR001		6	<20	<0.01	<10	<10	3	<10	15	
JKJNR002		10	<20	<0.01	<10	<10	4	<10	20	
JKJNR003		3	<20	<0.01	<10	<10	3	<10	17	
JKJNR004		17	<20	<0.01	<10	<10	5	<10	<2	
JKJNR005		1450	<20	<0.01	<10	<10	1	<10	2	
JKJNR006		2000	<20	<0.01	<10	<10	2	<10	3	
JKJNR007		2030	<20	<0.01	<10	<10	1	<10	5	
JKJNR008		1065	<20	1.06	<10	<10	132	<10	111	
JKJNR009		1135	<20	0.94	<10	<10	127	<10	111	
JKJNR010		14	<20	0.01	<10	<10	3	<10	4	
JKJNR011		201	<20	0.08	<10	<10	25	<10	27	
JKJNR012		192	<20	0.13	<10	<10	15	<10	21	
JKJNR001S		96	<20	0.15	<10	<10	94	<10	53	
JKJNR001B		4780	20	<0.01	<10	10	1	<10	<2	
LJJNR001		29	<20	0.01	<10	<10	14	<10	24	
LJJNR002		21	<20	<0.01	<10	<10	1	400	3	
LJJNR004		974	<20	0.50	<10	<10	102	<10	83	
LJJNR005		9	<20	<0.01	<10	<10	10	<10	29	
LJJNR006		27	<20	0.01	<10	<10	12	<10	53	
LJJNR007		164	<20	<0.01	<10	<10	1	<10	26	
LJJNR008		137	<20	<0.01	<10	<10	1	<10	405	
LJJNR009		814	20	0.15	<10	<10	26	<10	23	
LJJNR010		6	<20	<0.01	<10	<10	1	<10	28	
LJVFR001		25	<20	<0.01	<10	<10	1	<10	3	
RZJNR001		10	<20	0.01	<10	<10	5	<10	9	
RZJNR002		2	<20	<0.01	<10	<10	1	<10	5	
RZJNR003		7	<20	0.01	20	20	14	<10	231	
RZJNR004		20	<20	0.01	<10	<10	6	<10	20	
RZJNR005		<1	<20	<0.01	<10	<10	2	<10	8	
RZJNR006		1	<20	<0.01	<10	<10	1	<10	4	
RZJNR007		76	<20	0.04	<10	<10	7	<10	21	
RZJNR008		153	<20	0.11	<10	<10	20	<10	21	
RZVFR001		68	<20	<0.01	<10	<10	3	<10	22	
RZVFR002		262	<20	<0.01	<10	<10	3	<10	16	
RZVFR003		104	<20	<0.01	<10	<10	2	<10	10	
RZVFR004		1040	<20	1.08	<10	10	124	<10	114	
JVJNR001		7	<20	<0.01	<10	<10	2	20	8	
JVJNR002		8	<20	<0.01	<10	<10	5	<10	54	
JVJNR003		2	<20	<0.01	<10	<10	6	<10	7	
JVJNR004		117	<20	0.02	<10	<10	5	<10	47	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180288

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
JVJNR005		2.34	0.149		0.4	0.57	4	<10	10	<0.5	29	0.43	<0.5	74	5	2680
JVJNR006		1.34	0.155		0.4	0.70	51	<10	20	0.6	20	0.53	<0.5	5	7	57
JVJNR007		0.96	0.010		0.9	1.95	13	<10	90	0.8	3	<0.01	1.8	4	33	19
JVJNR008		1.58	0.149		0.5	0.77	14	<10	10	<0.5	3	0.81	<0.5	3	14	8
JVJNR009		1.08	<0.005		<0.2	0.27	3	<10	10	<0.5	3	0.20	<0.5	2	22	6
JVJNR004S		0.08	0.950		0.4	1.69	1305	20	90	<0.5	25	3.45	<0.5	44	23	130
JVJNR004B		2.20	<0.005		<0.2	0.03	3	<10	<10	<0.5	2	>25.0	<0.5	1	1	<1
RZJNR013		2.04	<0.005		<0.2	11.25	3	<10	40	1.7	3	7.6	<0.5	3	34	30
RZJNR014		2.98	0.069		<0.2	4.84	4	<10	30	1.6	32	3.90	<0.5	5	46	42
RZJNR015		1.34	<0.005		0.9	1.75	30	<10	60	1.1	19	0.13	<0.5	13	26	77
RZJNR016		1.92	4.60		3.6	0.19	11	<10	10	1.1	4010	0.27	<0.5	2	11	45
RZJNR014S		0.08	4.10		55.8	1.89	1020	<10	170	<0.5	7	0.98	<0.5	10	19	103
RZJNR014B		1.80	0.009		<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1	1
MMJNR035		0.88	0.050		0.6	0.66	19	<10	30	<0.5	3	0.23	<0.5	1	9	2
MMJNR036		0.54														
MMJNR037		1.00	0.097		4.3	0.45	58	10	30	<0.5	127	2.06	<0.5	2	6	7
MMJNR038		0.74	0.379		0.7	0.54	5820	<10	20	<0.5	31	0.01	<0.5	20	9	8
MMJNR039		1.20	0.546		0.5	0.10	37	<10	10	<0.5	268	0.06	<0.5	2	12	9
MMJNR040		1.64	1.005		44.2	0.13	>10000	30	10	<0.5	2250	0.09	7.3	16	20	61
MMJNR041		0.74	>10.0	20.8	1.2	0.17	17	<10	<10	<0.5	2200	0.01	<0.5	2	10	5
MMJNR042		1.28	0.454		1.0	0.34	212	20	20	<0.5	21	0.01	<0.5	2	9	8
JKJNR013		2.60	0.026		<0.2	4.67	10	<10	660	1.4	8	2.43	<0.5	32	48	44
LJJNR011		1.22	0.009		<0.2	6.23	5	<10	1100	2.2	3	3.61	<0.5	29	94	37
LJJNR012		1.48	0.005		<0.2	0.15	<2	<10	40	<0.5	4	6.10	<0.5	2	8	2
LJJNR013		1.76	<0.005		<0.2	0.95	3	<10	40	0.5	3	21.6	<0.5	3	9	6
LJJNR014		2.32	<0.005		<0.2	5.24	2	<10	560	2.2	3	2.15	<0.5	28	84	38
LJJNR015		0.80	<0.005		<0.2	0.78	2	<10	50	0.5	2	22.9	<0.5	3	6	5
LJJNR016		1.94	<0.005		<0.2	4.12	2	<10	300	1.5	2	2.28	<0.5	32	49	45
LJJNR017		1.00	<0.005		<0.2	0.60	5	<10	40	<0.5	3	23.5	<0.5	3	5	3
LJJNR013S		0.08	1.010		0.5	1.71	1335	20	90	<0.5	27	3.54	<0.5	44	24	132
LJJNR013B		1.86	<0.005		<0.2	0.11	<2	<10	10	<0.5	3	>25.0	<0.5	2	2	1
LJJNR003		1.64	0.607		3.5	1.57	7020	10	60	0.9	159	0.52	<0.5	21	33	47

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CERTIFICATE OF ANALYSIS WH12180288

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JVJNR005		22.2	<10	<1	0.03	<10	0.06	219	<1	0.02	5	90	2	>10.0	<2	<1
JVJNR006		2.09	<10	<1	0.07	20	0.19	235	1	0.05	1	370	24	0.52	4	3
JVJNR007		3.04	10	<1	0.75	20	0.72	137	<1	0.03	13	70	442	0.14	<2	2
JVJNR008		1.31	<10	<1	0.04	<10	0.03	124	1	0.07	6	120	9	0.49	8	<1
JVJNR009		0.93	<10	<1	0.03	10	0.08	175	188	0.06	6	100	4	0.03	<2	1
JVJNR004S		3.66	<10	<1	0.17	10	0.57	727	9	0.17	22	750	9	0.30	3	3
JVJNR004B		0.04	<10	<1	<0.01	<10	1.83	29	<1	0.02	<1	50	<2	0.10	<2	<1
RZJNR013		1.01	30	<1	0.26	10	0.33	122	290	0.47	11	390	3	0.12	<2	4
RZJNR014		3.05	20	<1	0.39	20	0.56	531	27	0.24	16	260	3	0.30	<2	6
RZJNR015		4.74	10	<1	0.49	20	0.59	1190	4	0.02	31	630	74	0.61	<2	3
RZJNR016		1.86	<10	<1	0.04	<10	0.02	413	11	0.02	2	130	2	0.06	2	<1
RZJNR014S		3.64	10	<1	0.26	10	0.79	473	9	0.23	13	580	8	0.14	14	3
RZJNR014B		0.04	<10	1	<0.01	<10	1.63	25	<1	0.02	<1	50	<2	0.21	<2	<1
MMJNR035		0.77	<10	1	0.12	<10	0.02	42	<1	<0.01	<1	130	96	0.42	8	<1
MMJNR036																
MMJNR037		1.77	<10	<1	0.27	10	0.12	31	1	0.01	2	130	136	1.61	19	<1
MMJNR038		1.79	<10	<1	0.19	10	0.10	121	<1	0.06	11	90	12	0.24	9	1
MMJNR039		1.47	<10	<1	0.02	<10	0.01	206	40	0.01	2	50	5	0.11	80	<1
MMJNR040		2.87	<10	<1	0.05	10	0.01	87	18	0.01	3	110	2310	1.46	386	<1
MMJNR041		1.46	<10	<1	0.03	<10	0.01	225	51	0.01	2	70	20	0.08	13	1
MMJNR042		3.59	<10	<1	0.18	10	0.01	53	1	0.01	2	120	93	3.05	33	<1
JKJNR013		5.98	10	<1	1.59	40	3.14	838	5	1.36	114	3240	4	0.08	<2	3
LJJNR011		6.74	20	<1	1.77	40	1.78	1130	4	1.87	75	3940	4	0.12	<2	4
LJJNR012		0.60	<10	<1	0.05	<10	0.45	98	1	0.04	4	240	<2	0.02	<2	1
LJJNR013		0.77	<10	<1	0.16	10	2.24	149	<1	0.03	5	880	5	0.03	<2	2
LJJNR014		6.18	10	<1	1.11	40	1.40	1020	4	2.47	68	3150	2	0.08	<2	2
LJJNR015		1.46	<10	<1	0.17	10	0.89	263	<1	0.02	6	1010	4	0.02	<2	2
LJJNR016		6.06	10	<1	0.87	50	2.84	886	5	1.29	109	3460	3	0.05	<2	2
LJJNR017		0.68	<10	<1	0.17	10	1.54	147	<1	0.02	3	740	4	0.03	<2	2
LJJNR013S		3.79	<10	<1	0.17	10	0.58	749	9	0.18	23	790	8	0.31	3	3
LJJNR013B		0.15	<10	<1	0.02	<10	1.77	44	<1	0.04	1	100	<2	0.08	<2	<1
LJJNR003		3.37	10	<1	0.43	10	0.35	449	5	0.07	20	130	110	0.32	14	3

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180288

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	20	0.01	10	10	1	10	2	10
JVJNR005		17	<20	0.01	<10	<10	3	<10	22	
JVJNR006		16	<20	0.04	<10	<10	12	<10	30	
JVJNR007		5	<20	0.10	<10	<10	28	<10	211	
JVJNR008		50	<20	0.02	<10	<10	4	<10	10	
JVJNR009		9	<20	0.06	<10	<10	7	<10	19	
JVJNR004S		101	<20	0.10	<10	<10	57	10	59	
JVJNR004B		5300	20	<0.01	<10	<10	<1	<10	<2	
RZJNR013		668	20	0.20	<10	<10	34	<10	17	
RZJNR014		164	<20	0.13	<10	<10	47	10	35	
RZJNR015		10	20	0.01	<10	<10	21	<10	44	
RZJNR016		3	<20	0.01	<10	<10	2	660	14	
RZJNR014S		86	<20	0.14	<10	<10	87	<10	50	
RZJNR014B		4970	20	<0.01	<10	10	<1	<10	<2	
MMJNR035		35	<20	<0.01	<10	<10	5	<10	2	
MMJNR036										
MMJNR037		253	<20	<0.01	<10	<10	2	10	12	
MMJNR038		5	<20	<0.01	<10	<10	5	<10	9	
MMJNR039		8	<20	<0.01	<10	<10	2	20	2	
MMJNR040		5	<20	<0.01	<10	<10	1	3170	683	3690
MMJNR041		2	<20	<0.01	<10	<10	2	270	12	
MMJNR042		9	<20	<0.01	<10	<10	2	20	30	
JKJNR013		491	<20	0.85	<10	<10	108	<10	92	
LJJNR011		1170	<20	1.00	<10	10	114	<10	107	
LJJNR012		381	<20	0.02	<10	<10	3	<10	10	
LJJNR013		1340	<20	0.01	<10	<10	9	<10	19	
LJJNR014		681	<20	0.96	<10	10	114	<10	105	
LJJNR015		1200	<20	0.01	<10	<10	9	<10	23	
LJJNR016		374	<20	0.97	<10	<10	122	<10	94	
LJJNR017		1300	<20	<0.01	<10	<10	6	<10	19	
LJJNR013S		103	<20	0.11	<10	<10	57	10	60	
LJJNR013B		4970	20	0.02	<10	<10	3	<10	2	
LJJNR003		41	<20	0.02	<10	<10	20	40	38	

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SUITE 200
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Finalized Date: 30- AUG- 2012
Account: TELOEX

CERTIFICATE WH12196681

Project:

P.O. No.: JN12- 003

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 27- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

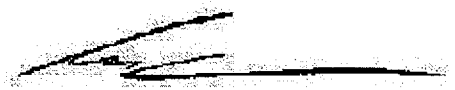
ALS CODE	DESCRIPTION
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 22Y	Split Sample - Boyd Rotary Splitter
SCR- 21	Screen to - 100 to 106 um
FND- 03	Find Reject for Addn Analysis
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 to 106 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 30- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12196681

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
MMJNR041		22.2	13.95	22.4	0.030	2.15	106.0	22.2	22.6

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Finalized Date: 15- OCT- 2012
Account: TELOEX

CERTIFICATE WH12231380

Project:

P.O. No.: JN12- 016

This report is for 8 Rock samples submitted to our lab in Whitehorse, YT, Canada on 28- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
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SUITE 200
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Finalized Date: 15- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12231380

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JVJNR010		1.49	<0.005	<0.2	1.03	5	<10	20	<0.5	<2	0.28	<0.5	5	15	28	3.15
JVJNR011		1.24	0.010	0.4	0.29	33	<10	10	<0.5	<2	0.06	<0.5	2	17	24	1.76
JVJNR012		1.24	0.009	<0.2	0.61	209	<10	10	<0.5	2	1.03	<0.5	10	16	21	2.08
JVJNR013		1.25	0.031	<0.2	0.34	9	<10	10	<0.5	3	0.08	<0.5	4	17	80	1.86
JVJNR014		0.89	0.037	2.5	0.33	>10000	20	30	<0.5	24	0.01	<0.5	22	9	98	4.25
JVJNR015		1.18	0.052	<0.2	0.37	26	<10	10	<0.5	17	0.84	<0.5	4	15	38	2.51
JVJNR016		2.06	0.031	0.7	0.11	3130	<10	10	<0.5	6	0.01	<0.5	2	16	9	1.37
JVJNR017		1.66	0.094	0.3	0.39	33	<10	10	<0.5	5	0.33	<0.5	3	18	38	2.54

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Finalized Date: 15- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12231380

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JVJNR010		<10	<1	0.15	<10	0.51	500	<1	0.04	16	60	25	0.09	<2	1	25
JVJNR011		<10	<1	0.06	10	0.13	245	<1	0.02	5	80	39	0.18	<2	1	4
JVJNR012		<10	<1	0.01	<10	0.23	454	<1	0.05	5	100	7	0.07	<2	1	24
JVJNR013		<10	<1	0.07	10	0.10	159	<1	0.03	8	70	4	0.16	<2	1	5
JVJNR014		<10	<1	0.21	10	0.03	137	1	0.01	2	140	82	1.59	16	1	3
JVJNR015		<10	<1	<0.01	10	0.19	432	<1	0.03	4	570	8	0.38	<2	1	25
JVJNR016		<10	<1	0.06	<10	0.01	73	<1	0.01	2	40	27	0.52	7	<1	2
JVJNR017		<10	<1	0.05	10	0.11	205	<1	0.02	4	190	23	1.17	10	1	11

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SUITE 200
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Finalized Date: 15- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12231380

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
JVJNR010		<20	<0.01	<10	<10	8	<10	49
JVJNR011		<20	<0.01	<10	<10	4	<10	41
JVJNR012		<20	0.04	<10	<10	5	<10	23
JVJNR013		<20	<0.01	<10	<10	5	<10	13
JVJNR014		<20	<0.01	<10	<10	3	<10	10
JVJNR015		<20	<0.01	<10	<10	4	<10	24
JVJNR016		<20	<0.01	<10	<10	1	<10	5
JVJNR017		<20	<0.01	<10	<10	4	<10	65

5.2 – Diamond Drill Hole Samples

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE WH12180287

Project:

P.O. No.: JN12- 001

This report is for 185 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 2- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
BAG- 01	Bulk Master for Storage
SPL- 21d	Split sample - duplicate
LOG- 22d	Sample login - Rcd w/o BarCode dup
PUL- 32md	Pulverize 500g- DUP - 85%<75um
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: JESSE CAMPBELL
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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

To: TERRALOGIC EXPLORATION SERVICES INC.
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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12011-001		0.96	<0.005	0.6	0.96	24	<10	30	0.5	<2	0.20	<0.5	23	24	26	2.49
JN12011-002		0.80	<0.005	<0.2	1.36	5	<10	50	<0.5	<2	0.50	<0.5	6	42	30	2.07
JN12011-003		0.40	0.020	3.0	0.90	9	<10	30	0.9	12	0.67	<0.5	55	29	1505	15.1
JN12011-004		0.84	0.019	0.8	2.04	8	<10	60	1.2	<2	2.84	<0.5	13	36	114	6.68
JN12011-005		2.26	0.008	<0.2	2.10	9	<10	10	0.7	2	7.6	<0.5	5	20	59	4.07
JN12011-006		0.26	<0.005	0.2	2.54	7	<10	130	1.1	<2	0.44	<0.5	17	31	54	3.90
JN12011-007		1.80	<0.005	0.4	3.04	13	<10	110	1.1	<2	1.66	<0.5	12	52	33	3.42
JN12011-008		1.50	<0.005	<0.2	2.79	10	<10	90	0.9	<2	1.33	<0.5	13	39	41	4.18
JN12011-009		3.52	0.013	<0.2	3.85	6	10	50	1.4	<2	6.06	<0.5	8	29	25	2.17
JN12011-010		1.10	<0.005	<0.2	0.64	2	<10	10	<0.5	<2	0.13	<0.5	5	16	14	0.48
JN12011-011		0.32	<0.005	<0.2	0.13	<2	<10	<10	<0.5	<2	0.05	<0.5	3	28	4	0.52
JN12011-012		1.64	<0.005	0.9	1.12	14	<10	90	0.7	<2	0.24	<0.5	16	26	47	2.87
JN12011-013		1.60	<0.005	0.4	0.57	<2	<10	<10	<0.5	<2	0.19	<0.5	11	29	24	2.50
JN12011-014		3.46	0.013	2.0	1.77	13	10	80	0.9	5	0.97	<0.5	11	20	201	5.60
JN12011-015		2.70	0.360	4.3	1.10	72	<10	70	0.6	9	0.72	1.2	10	14	274	8.26
JN12011-016		2.50	0.467	0.7	1.48	34	10	60	0.8	2	0.17	<0.5	7	14	168	5.73
JN12011-017		2.04	0.068	0.3	1.47	30	<10	70	0.6	<2	0.08	<0.5	11	12	102	4.12
JN12011-018		3.50	0.029	3.9	0.43	229	<10	30	0.5	57	0.15	<0.5	11	6	2150	38.9
JN12011-019		2.14	0.010	0.3	1.58	7	<10	20	1.7	18	1.15	<0.5	8	35	58	16.4
JN12011-020		0.62	0.011	0.4	2.35	11	<10	20	3.0	14	0.86	<0.5	<1	45	22	21.5
JN12011-020S		0.08	4.23	54.5	1.91	1035	<10	180	<0.5	<2	1.10	<0.5	10	20	100	3.65
JN12011-021		2.22	0.016	1.7	1.54	214	<10	40	2.5	29	0.71	<0.5	3	21	1470	25.0
JN12011-022		1.44	0.056	1.4	0.66	198	<10	20	0.7	155	0.17	<0.5	15	8	2200	38.8
JN12011-023		1.06	0.057	1.0	1.82	22	<10	50	1.2	113	0.19	<0.5	10	25	1325	17.3
JN12011-024		1.68	0.025	1.9	0.70	230	<10	30	0.8	91	0.13	<0.5	30	10	2520	33.2
JN12011-025		2.66	0.057	0.4	1.31	9	<10	20	1.5	79	1.14	<0.5	1	27	81	21.2
JN12011-026		1.66	0.066	1.4	1.18	5680	<10	30	1.5	30	0.95	<0.5	4	31	309	21.6
JN12011-027		2.68	0.161	1.8	0.20	413	<10	10	<0.5	130	0.23	<0.5	4	16	1645	35.0
JN12011-028		1.48	0.174	1.6	0.23	78	<10	<10	<0.5	12	0.53	10.0	6	20	257	6.33
JN12011-029		1.54	0.335	2.5	0.21	152	<10	10	<0.5	140	0.26	6.9	9	19	1110	24.8
JN12011-030		0.42	0.073	1.1	0.42	32	<10	10	<0.5	12	0.67	6.6	6	20	458	7.68
JN12011-030D		<0.02	0.078	1.1	0.35	33	<10	10	<0.5	11	0.65	6.3	6	19	506	7.79
JN12011-031		1.80	0.392	2.6	0.17	120	<10	<10	<0.5	92	0.09	<0.5	7	13	1685	28.4
JN12011-032		2.52	0.169	1.7	0.11	131	<10	<10	<0.5	43	0.15	<0.5	7	15	1975	28.9
JN12011-033		3.40	0.204	0.6	0.20	50	<10	10	1.3	65	0.55	<0.5	2	13	169	32.9
JN12011-034		2.24	0.322	1.1	0.63	60	<10	10	0.9	71	0.52	<0.5	4	24	416	19.3
JN12011-035		1.62	0.265	0.9	0.39	69	<10	20	1.3	35	0.41	<0.5	<1	16	342	29.2
JN12011-036		2.04	0.337	0.3	0.60	57	<10	10	1.3	35	0.49	<0.5	<1	27	228	27.1
JN12011-037		1.00	0.353	0.4	0.45	55	<10	10	0.8	51	0.49	<0.5	4	25	133	15.2
JN12011-038		1.08	0.199	1.5	0.36	52	<10	10	0.5	11	0.27	<0.5	6	21	214	15.0

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12011-001		<10	<1	0.10	10	0.17	506	1	0.01	20	260	13	0.56	<2	2	9
JN12011-002		10	<1	0.48	20	0.52	150	2	0.07	19	400	8	0.47	<2	3	24
JN12011-003		10	<1	0.25	40	0.25	824	2	0.01	66	1140	20	>10.0	2	6	15
JN12011-004		10	<1	0.23	40	0.41	1960	7	0.02	42	360	13	1.03	<2	8	26
JN12011-005		10	<1	0.03	10	0.23	1160	151	0.07	10	450	3	0.52	<2	2	53
JN12011-006		10	<1	0.56	30	0.87	238	<1	0.04	42	550	5	0.50	<2	4	33
JN12011-007		10	<1	0.93	20	0.81	333	3	0.08	33	470	6	0.18	<2	8	91
JN12011-008		10	<1	0.50	20	0.97	334	1	0.05	40	630	10	0.38	<2	5	58
JN12011-009		10	1	0.15	30	0.31	650	1	0.12	23	430	8	0.25	<2	4	267
JN12011-010		<10	<1	0.05	20	0.05	105	4	<0.01	6	100	8	0.03	<2	1	5
JN12011-011		<10	<1	0.02	<10	0.01	84	2	<0.01	3	90	2	0.02	<2	<1	2
JN12011-012		<10	<1	0.45	20	0.17	497	2	0.01	35	380	6	0.62	<2	3	8
JN12011-013		<10	<1	0.03	20	0.08	843	2	<0.01	12	80	6	0.05	<2	2	5
JN12011-014		10	<1	0.71	30	0.47	834	1	0.01	37	550	124	3.32	5	5	38
JN12011-015		<10	<1	0.60	30	0.34	551	<1	0.01	38	590	322	8.35	46	3	23
JN12011-016		10	<1	0.65	30	0.16	44	<1	0.01	35	580	15	6.53	68	2	7
JN12011-017		<10	<1	0.63	30	0.15	61	1	0.01	41	230	11	4.22	10	1	5
JN12011-018		10	<1	0.18	<10	0.16	472	2	0.01	5	210	87	>10.0	9	2	31
JN12011-019		10	<1	0.08	30	0.44	5440	66	0.01	33	190	7	1.24	2	11	13
JN12011-020		20	<1	0.02	20	0.36	4950	2	0.01	4	290	4	0.44	<2	11	11
JN12011-020S		10	<1	0.26	10	0.80	481	9	0.22	13	570	9	0.12	14	3	94
JN12011-021		10	1	0.35	20	0.31	2670	27	0.01	7	100	22	>10.0	3	5	16
JN12011-022		10	<1	0.11	10	0.24	359	2	0.01	7	150	9	>10.0	22	2	53
JN12011-023		10	<1	0.28	30	0.13	480	6	0.01	13	80	6	7.09	6	6	33
JN12011-024		10	1	0.22	10	0.14	400	4	0.01	16	210	12	>10.0	34	2	44
JN12011-025		10	<1	0.06	10	0.45	5030	1	0.01	11	140	13	6.49	<2	15	12
JN12011-026		10	<1	0.18	50	0.33	4360	1	0.01	18	240	53	>10.0	30	22	12
JN12011-027		10	3	0.02	<10	0.15	762	2	0.01	26	310	28	>10.0	125	4	33
JN12011-028		<10	1	0.02	10	0.13	499	1	<0.01	11	530	89	5.31	32	4	14
JN12011-029		<10	5	0.02	<10	0.07	334	2	0.01	6	610	100	>10.0	120	2	10
JN12011-030		<10	<1	0.03	10	0.21	296	1	0.01	8	750	23	8.33	30	3	25
JN12011-030D		<10	<1	0.03	10	0.20	276	1	0.01	7	730	23	8.44	32	3	25
JN12011-031		<10	5	<0.01	<10	0.06	339	1	0.01	<1	190	21	>10.0	139	1	3
JN12011-032		<10	5	<0.01	<10	0.13	711	2	<0.01	5	170	18	>10.0	108	2	3
JN12011-033		10	2	<0.01	<10	0.30	3460	1	0.01	2	290	7	>10.0	47	12	9
JN12011-034		10	2	0.09	10	0.44	3510	2	<0.01	7	110	22	>10.0	39	7	6
JN12011-035		10	2	0.06	<10	0.23	2340	1	0.01	5	150	18	>10.0	43	8	12
JN12011-036		10	2	0.01	10	0.27	3590	1	0.01	9	130	4	>10.0	35	13	10
JN12011-037		<10	1	0.01	<10	0.40	3690	2	0.01	12	130	9	8.60	39	9	8
JN12011-038		<10	1	0.09	10	0.25	1900	2	0.01	16	70	16	>10.0	43	4	8

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44 - 12TH AVENUE SOUTH
SUITE 200
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Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12011- 001		<20	0.01	<10	<10	15	<10	42
JN12011- 002		<20	0.09	<10	<10	27	<10	24
JN12011- 003		<20	<0.01	<10	<10	40	<10	56
JN12011- 004		20	0.02	<10	<10	41	<10	67
JN12011- 005		<20	0.08	<10	<10	19	<10	26
JN12011- 006		20	0.04	<10	<10	31	<10	72
JN12011- 007		<20	0.16	<10	<10	63	<10	107
JN12011- 008		<20	0.07	<10	<10	40	<10	113
JN12011- 009		20	0.08	<10	<10	26	<10	62
JN12011- 010		<20	<0.01	<10	<10	9	<10	21
JN12011- 011		<20	<0.01	<10	<10	2	<10	6
JN12011- 012		<20	0.01	<10	<10	14	<10	43
JN12011- 013		<20	<0.01	<10	<10	12	<10	25
JN12011- 014		<20	0.01	<10	<10	26	<10	113
JN12011- 015		<20	<0.01	<10	<10	15	<10	229
JN12011- 016		<20	0.01	<10	<10	16	<10	41
JN12011- 017		<20	0.01	<10	<10	14	<10	25
JN12011- 018		<20	<0.01	<10	<10	9	<10	34
JN12011- 019		<20	<0.01	<10	<10	51	<10	65
JN12011- 020		<20	0.06	<10	<10	60	30	39
JN12011- 020S		<20	0.15	<10	<10	90	<10	50
JN12011- 021		<20	0.01	<10	<10	28	<10	38
JN12011- 022		<20	<0.01	<10	<10	12	<10	15
JN12011- 023		<20	<0.01	<10	<10	45	<10	17
JN12011- 024		<20	<0.01	<10	<10	12	10	18
JN12011- 025		<20	0.01	<10	<10	43	<10	41
JN12011- 026		<20	0.01	<10	<10	73	<10	66
JN12011- 027		<20	<0.01	30	<10	16	<10	21
JN12011- 028		<20	<0.01	10	<10	8	<10	1095
JN12011- 029		<20	<0.01	40	<10	6	<10	754
JN12011- 030		<20	<0.01	<10	10	6	<10	665
JN12011- 030D		<20	<0.01	10	<10	5	<10	644
JN12011- 031		<20	<0.01	40	<10	5	10	13
JN12011- 032		<20	<0.01	40	<10	9	<10	18
JN12011- 033		<20	<0.01	10	<10	25	10	55
JN12011- 034		<20	<0.01	10	<10	30	<10	31
JN12011- 035		<20	0.01	10	<10	25	<10	33
JN12011- 036		<20	0.01	10	<10	38	<10	36
JN12011- 037		<20	<0.01	<10	<10	32	<10	35
JN12011- 038		<20	<0.01	<10	<10	18	<10	23

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44 - 12TH AVENUE SOUTH
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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12011-039		1.28	0.592	3.1	0.64	126	<10	20	<0.5	24	0.08	<0.5	17	16	627	21.9
JN12011-040		0.74	0.343	1.2	1.16	60	<10	20	1.1	17	0.82	<0.5	5	8	307	21.4
JN12011-040B		2.36	<0.005	<0.2	0.05	2	<10	10	<0.5	<2	>25.0	<0.5	1	1	5	0.14
JN12011-040S		0.08	1.005	0.3	1.67	1335	20	90	<0.5	21	3.60	<0.5	44	24	130	3.71
JN12011-041		2.40	0.394	<0.2	1.32	9	<10	20	1.9	65	2.25	<0.5	<1	13	190	24.9
JN12011-042		1.64	0.400	0.3	0.86	7	<10	30	3.1	158	2.10	<0.5	6	13	81	31.4
JN12011-043		2.92	0.433	1.4	1.00	26	<10	20	3.7	157	0.83	<0.5	50	30	1930	24.9
JN12011-044		3.48	0.293	0.3	1.08	4	<10	20	2.2	80	1.80	<0.5	3	34	7	24.3
JN12011-045		0.64	2.05	0.8	0.23	106	<10	<10	<0.5	116	0.26	<0.5	2	13	23	29.4
JN12011-046		1.10	0.586	0.7	0.46	43	<10	10	1.4	112	1.04	<0.5	3	18	11	29.3
JN12011-047		0.72	5.15	0.6	0.40	46	<10	<10	<0.5	391	0.27	<0.5	7	20	12	24.3
JN12011-048		1.04	1.790	1.2	0.81	78	<10	<10	<0.5	70	0.09	<0.5	7	18	9	14.8
JN12011-049		0.16	2.99	1.0	0.97	90	<10	10	0.7	125	0.58	<0.5	6	12	12	24.8
JN12011-050		3.00	2.13	1.6	0.51	72	<10	<10	<0.5	56	0.14	<0.5	8	17	80	20.8
JN12011-051		2.94	4.74	3.1	0.51	101	<10	<10	<0.5	179	0.16	<0.5	20	18	406	21.8
JN12011-052		1.14	3.34	2.4	0.28	70	<10	<10	<0.5	57	0.09	<0.5	18	19	373	22.3
JN12011-053		1.30	3.89	3.1	0.29	49	<10	10	<0.5	104	0.16	<0.5	30	22	679	25.1
JN12011-054		2.88	4.86	4.4	0.48	34	<10	20	0.9	169	0.64	0.8	25	22	612	27.0
JN12011-055		4.16	2.74	4.1	0.49	114	<10	20	1.0	100	0.65	9.7	18	17	529	27.3
JN12011-056		2.02	1.210	1.0	0.19	1085	<10	10	0.5	50	0.40	<0.5	18	25	121	19.2
JN12011-057		1.62	2.32	3.8	0.31	74	<10	10	<0.5	91	0.14	<0.5	8	28	100	18.8
JN12011-058		3.90	1.380	3.9	0.18	61	<10	10	<0.5	72	0.14	<0.5	43	22	1095	23.7
JN12011-059		3.30	1.120	0.7	0.35	102	<10	<10	<0.5	24	0.16	<0.5	13	24	244	23.7
JN12011-060		1.52	0.677	0.5	0.65	79	<10	<10	<0.5	8	0.18	<0.5	9	22	52	20.0
JN12011-060D		<0.02	0.678	0.4	0.69	75	<10	<10	<0.5	6	0.15	<0.5	8	21	46	18.6
JN12011-060S		0.08	0.956	0.4	1.79	1380	20	90	<0.5	24	3.71	<0.5	45	25	136	3.85
JN12011-061		1.22	0.364	2.0	0.12	38	<10	<10	<0.5	5	0.02	2.3	16	25	209	8.39
JN12011-062		2.22	0.892	2.1	0.27	46	<10	10	0.5	23	0.48	5.6	14	19	451	24.2
JN12011-063		2.88	1.590	0.8	0.48	48	<10	10	0.6	55	0.48	<0.5	9	21	61	22.9
JN12011-064		1.48	0.991	0.4	0.40	43	<10	10	0.5	38	0.38	<0.5	9	15	4	29.0
JN12011-065		2.44	1.015	0.4	0.77	6	<10	30	2.7	39	2.19	<0.5	8	17	3	31.6
JN12011-066		0.78	0.131	0.3	0.52	11	<10	10	1.1	12	0.83	<0.5	9	17	6	20.4
JN12011-067		1.98	0.057	0.6	0.60	4	<10	20	1.8	7	1.79	<0.5	8	14	11	26.8
JN12011-068		1.04	0.713	1.6	0.36	44	<10	10	0.6	590	0.24	<0.5	77	12	1295	20.2
JN12011-069		0.90	0.049	<0.2	0.51	8	<10	10	1.8	17	1.71	<0.5	8	11	29	28.6
JN12011-070		1.46	2.54	1.4	0.34	101	<10	<10	<0.5	22	0.18	<0.5	10	21	62	19.4
JN12011-071		3.62	1.980	1.2	0.79	87	<10	<10	<0.5	19	0.15	<0.5	16	20	66	17.6
JN12011-072		2.40	0.797	5.8	0.16	68	<10	<10	<0.5	253	0.07	0.8	14	32	162	13.25
JN12011-073		1.14	0.040	<0.2	0.81	5	<10	10	2.4	9	1.53	<0.5	7	33	18	19.6
JN12011-074		1.00	0.806	<0.2	0.44	108	<10	<10	<0.5	10	0.28	<0.5	9	31	2	18.4

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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12011-039		10	2	0.25	10	0.10	355	1	0.01	15	70	28	>10.0	102	1	4
JN12011-040		10	1	0.08	20	0.32	4380	1	0.01	10	280	6	>10.0	40	10	10
JN12011-040B		<10	<1	0.01	<10	1.79	31	<1	0.01	<1	40	<2	0.20	<2	<1	4820
JN12011-040S		<10	<1	0.17	10	0.57	746	10	0.17	22	780	8	0.30	4	3	105
JN12011-041		10	1	<0.01	<10	0.58	7280	1	0.01	6	500	2	4.18	<2	8	101
JN12011-042		20	<1	<0.01	<10	0.51	7980	1	0.01	33	550	3	0.76	3	3	41
JN12011-043		10	<1	0.06	10	0.43	3270	1	0.01	25	260	4	8.66	7	7	32
JN12011-044		10	<1	0.02	10	0.78	8820	1	0.01	5	180	5	1.51	<2	15	17
JN12011-045		10	<1	<0.01	<10	0.08	942	1	0.01	7	420	<2	>10.0	248	2	5
JN12011-046		10	1	0.01	<10	0.57	5390	1	0.01	4	440	2	>10.0	63	10	12
JN12011-047		10	2	0.01	<10	0.05	820	1	0.01	15	690	5	>10.0	124	1	5
JN12011-048		10	<1	0.04	10	0.01	73	<1	0.01	12	170	6	>10.0	148	<1	4
JN12011-049		10	1	0.03	<10	0.24	2720	1	0.01	20	120	6	>10.0	95	6	8
JN12011-050		10	1	0.01	10	0.03	470	1	0.01	7	330	3	>10.0	150	1	6
JN12011-051		10	<1	0.03	10	0.06	298	2	0.01	13	280	8	>10.0	161	1	8
JN12011-052		10	1	0.03	<10	0.02	135	2	0.01	17	240	13	>10.0	200	<1	3
JN12011-053		10	1	0.03	<10	0.06	576	2	0.01	14	190	22	>10.0	116	1	3
JN12011-054		10	1	0.09	<10	0.27	2690	5	0.01	8	200	56	>10.0	64	3	15
JN12011-055		10	1	0.09	<10	0.26	2920	4	0.01	6	180	56	>10.0	85	4	8
JN12011-056		10	<1	0.02	<10	0.18	2440	4	0.01	7	250	23	>10.0	95	4	4
JN12011-057		10	1	0.05	<10	0.06	813	3	0.01	13	150	47	>10.0	173	1	2
JN12011-058		<10	1	0.03	<10	0.03	206	11	0.01	6	210	49	>10.0	181	<1	12
JN12011-059		10	1	0.01	<10	0.03	387	14	0.01	6	110	6	>10.0	131	<1	2
JN12011-060		10	1	0.03	10	0.04	745	10	0.01	10	80	5	>10.0	118	1	3
JN12011-060D		10	2	0.03	10	0.03	531	8	<0.01	10	70	4	>10.0	113	1	3
JN12011-060S		10	<1	0.18	10	0.60	775	10	0.18	22	800	10	0.33	4	3	111
JN12011-061		<10	<1	0.03	<10	0.01	86	4	0.01	9	20	11	9.04	50	<1	1
JN12011-062		10	1	0.07	<10	0.20	2450	6	0.01	6	310	43	>10.0	113	3	4
JN12011-063		10	1	0.02	<10	0.22	3570	17	0.01	12	170	6	>10.0	113	6	5
JN12011-064		10	1	<0.01	<10	0.19	2510	61	0.01	8	80	<2	>10.0	127	1	4
JN12011-065		20	<1	0.01	<10	0.71	11900	8	0.02	3	130	3	1.16	<2	4	21
JN12011-066		10	1	0.01	<10	0.54	9210	10	0.01	6	90	<2	>10.0	21	5	6
JN12011-067		10	1	0.01	<10	0.69	11550	45	0.02	3	420	2	2.05	<2	14	17
JN12011-068		<10	<1	0.09	<10	0.09	588	2	0.01	23	350	44	>10.0	65	1	23
JN12011-069		<10	1	<0.01	<10	0.55	9340	1	0.02	7	720	<2	9.64	9	18	14
JN12011-070		<10	<1	0.01	<10	0.01	149	7	0.01	11	490	2	>10.0	265	<1	4
JN12011-071		<10	<1	0.03	<10	0.01	149	9	0.01	11	310	7	>10.0	217	1	4
JN12011-072		<10	<1	0.02	<10	0.02	280	13	0.01	12	120	162	>10.0	140	<1	3
JN12011-073		<10	<1	0.01	<10	0.68	8260	29	0.01	4	100	<2	2.34	7	15	11
JN12011-074		<10	1	0.01	<10	0.08	1080	10	0.01	9	610	<2	>10.0	177	2	6

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
JN12011-039		<20	<0.01	10	<10	8	<10	23
JN12011-040		<20	<0.01	<10	<10	20	<10	35
JN12011-040B		20	<0.01	<10	<10	1	<10	<2
JN12011-040S		<20	0.11	<10	<10	58	10	59
JN12011-041		<20	<0.01	<10	<10	20	<10	72
JN12011-042		<20	0.01	<10	<10	15	10	167
JN12011-043		<20	<0.01	<10	<10	35	10	146
JN12011-044		<20	<0.01	<10	<10	51	<10	93
JN12011-045		<20	<0.01	10	<10	9	<10	57
JN12011-046		<20	<0.01	<10	<10	35	<10	91
JN12011-047		<20	<0.01	10	<10	8	10	93
JN12011-048		<20	<0.01	10	<10	9	<10	53
JN12011-049		<20	0.01	<10	<10	24	<10	56
JN12011-050		<20	<0.01	10	<10	8	<10	68
JN12011-051		<20	<0.01	10	<10	7	<10	33
JN12011-052		<20	<0.01	10	<10	4	<10	44
JN12011-053		<20	<0.01	10	<10	5	<10	44
JN12011-054		<20	0.01	<10	<10	13	<10	147
JN12011-055		<20	0.01	10	<10	12	<10	972
JN12011-056		<20	<0.01	10	<10	9	<10	89
JN12011-057		<20	<0.01	10	<10	7	<10	67
JN12011-058		<20	<0.01	10	<10	3	<10	58
JN12011-059		<20	<0.01	10	<10	5	10	69
JN12011-060		<20	<0.01	10	<10	8	10	89
JN12011-060D		<20	<0.01	10	<10	7	<10	92
JN12011-060S		<20	0.11	<10	<10	61	10	63
JN12011-061		<20	<0.01	<10	<10	2	<10	269
JN12011-062		<20	<0.01	10	<10	8	<10	649
JN12011-063		<20	<0.01	10	<10	20	<10	81
JN12011-064		<20	<0.01	10	<10	9	10	84
JN12011-065		<20	<0.01	<10	<10	20	<10	119
JN12011-066		<20	<0.01	<10	<10	19	<10	84
JN12011-067		<20	<0.01	<10	<10	24	<10	126
JN12011-068		<20	<0.01	10	<10	6	10	23
JN12011-069		<20	<0.01	<10	<10	32	10	124
JN12011-070		<20	<0.01	10	<10	3	<10	77
JN12011-071		<20	<0.01	10	<10	9	<10	58
JN12011-072		<20	<0.01	10	<10	2	<10	73
JN12011-073		<20	<0.01	<10	<10	54	10	94
JN12011-074		<20	<0.01	10	<10	11	<10	89

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12011-075		1.86	0.011	<0.2	1.16	<2	<10	10	1.9	13	1.54	<0.5	5	46	2	19.4
JN12011-076		2.92	0.086	<0.2	0.97	2	<10	10	1.4	27	1.40	<0.5	9	39	3	21.0
JN12011-077		2.58	<0.005	<0.2	0.82	<2	<10	20	2.3	12	2.03	<0.5	11	27	3	26.6
JN12011-078		3.48	0.015	<0.2	0.88	3	<10	20	1.8	10	1.89	<0.5	5	45	1	24.2
JN12011-079		2.56	0.040	<0.2	0.78	<2	<10	20	2.0	18	2.06	<0.5	7	22	4	29.2
JN12011-080		3.26	1.245	<0.2	0.29	82	<10	<10	<0.5	12	0.25	<0.5	11	16	8	25.2
JN12011-080B		1.94	<0.005	<0.2	0.06	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	1	<1	0.30
JN12011-080S		0.08	4.05	59.6	1.90	1075	<10	180	<0.5	2	1.08	<0.5	10	20	103	3.71
JN12011-081		2.36	0.029	<0.2	0.30	11	<10	10	2.2	12	2.01	<0.5	11	11	4	27.4
JN12011-082		2.62	0.014	<0.2	0.39	<2	<10	20	4.0	10	2.52	<0.5	14	9	5	31.6
JN12011-083		2.26	0.981	<0.2	0.26	<2	<10	10	9.9	132	3.70	<0.5	12	8	36	40.6
JN12011-084		2.60	0.007	<0.2	0.21	3	<10	10	8.7	9	7.0	<0.5	9	2	6	27.3
JN12011-085		2.72	0.008	<0.2	0.16	<2	<10	10	1.8	<2	1.54	<0.5	2	1	1	2.48
JN12011-086		3.08	<0.005	<0.2	0.21	27	<10	<10	2.1	2	1.83	<0.5	2	6	22	2.49
JN12011-087		2.54	<0.005	<0.2	0.38	87	<10	<10	2.5	<2	1.76	<0.5	2	7	13	2.36
JN12011-088		2.92	<0.005	<0.2	1.80	166	10	40	1.9	3	3.12	<0.5	5	24	22	2.27
JN12011-089		2.42	<0.005	<0.2	0.79	8	<10	40	1.3	6	1.80	<0.5	6	31	27	1.82
JN12011-090		2.04	<0.005	<0.2	1.21	<2	<10	40	0.7	<2	0.97	<0.5	6	47	25	2.00
JN12011-090D		<0.02	<0.005	<0.2	1.14	2	<10	40	0.6	<2	0.89	<0.5	6	48	24	1.97
JN12011-091		1.52	<0.005	<0.2	1.63	11	<10	70	1.4	2	0.47	<0.5	15	40	29	3.54
JN12011-092		2.26	<0.005	<0.2	1.87	6	<10	70	1.0	<2	0.74	<0.5	13	37	21	3.29
JN12011-093		2.90	<0.005	0.3	0.68	<2	<10	10	0.6	<2	1.24	<0.5	3	24	12	1.11
JN12011-094		1.10	0.045	0.2	0.51	13	<10	20	0.8	7	1.13	<0.5	5	12	31	1.87
JN12011-095		1.56	0.013	0.9	0.32	<2	<10	20	<0.5	41	0.50	0.6	3	11	36	1.91
JN12011-096		1.18	<0.005	<0.2	0.54	<2	<10	20	<0.5	10	0.46	<0.5	3	24	36	1.53
JN12011-097		1.68	<0.005	<0.2	2.03	3	<10	60	0.8	<2	0.77	<0.5	10	58	19	2.78
JN12011-098		1.28	<0.005	<0.2	1.23	<2	<10	30	0.5	12	0.94	<0.5	6	37	60	1.94
JN12011-099		3.28	0.213	<0.2	3.05	4	<10	80	1.2	7	1.98	<0.5	8	46	45	2.97
JN12011-100		2.52	<0.005	0.4	2.01	8	<10	100	0.8	<2	0.70	<0.5	12	38	28	3.37
JN12011-100S		0.08	0.944	0.6	1.78	1385	20	90	<0.5	27	3.58	<0.5	46	24	141	3.75
JN12011-101		1.94	<0.005	0.2	1.26	23	<10	60	0.6	3	0.78	<0.5	9	27	63	3.50
JN12011-102		2.18	<0.005	<0.2	2.29	4	<10	50	0.7	<2	1.43	<0.5	7	36	28	2.12
JN12011-103		2.60	<0.005	<0.2	0.93	2	<10	70	0.6	<2	0.89	<0.5	3	6	10	1.71
JN12011-104		2.70	<0.005	<0.2	2.51	6	<10	70	1.1	<2	1.39	<0.5	10	41	23	2.95
JN12011-105		2.96	0.058	0.2	4.07	<2	<10	40	1.5	4	2.59	<0.5	4	30	93	1.76
JN12011-106		2.84	0.018	<0.2	1.66	4	<10	20	0.8	3	1.30	<0.5	5	31	42	1.66
JN12011-107		3.24	0.015	<0.2	0.93	2	<10	10	0.5	4	0.72	<0.5	3	29	55	1.14
JN12011-108		2.40	0.008	<0.2	0.58	2	<10	<10	<0.5	4	0.59	<0.5	2	25	34	1.00
JN12011-109		2.00	0.022	<0.2	1.26	<2	<10	20	0.5	7	0.77	<0.5	4	36	27	1.37
JN12011-110		1.86	<0.005	<0.2	0.89	<2	<10	<10	0.5	<2	0.78	<0.5	1	21	5	0.67

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12011-075		<10	<1	0.01	<10	0.77	8770	8	0.01	3	290	<2	0.65	<2	18	13
JN12011-076		<10	<1	0.01	<10	0.58	10850	8	0.02	7	340	<2	4.07	<2	10	12
JN12011-077		<10	<1	0.02	<10	0.92	13500	1	0.02	2	360	<2	0.06	<2	6	17
JN12011-078		<10	<1	0.02	<10	0.87	12850	3	0.02	2	180	<2	0.78	<2	30	16
JN12011-079		<10	<1	0.02	<10	1.17	13450	<1	0.02	<1	110	2	0.50	<2	28	16
JN12011-080		<10	<1	<0.01	<10	0.07	1485	<1	0.01	12	290	<2	>10.0	221	3	4
JN12011-080B		<10	<1	<0.01	<10	1.85	130	<1	0.02	<1	60	<2	0.20	2	<1	5170
JN12011-080S		<10	<1	0.26	10	0.80	509	8	0.22	13	600	5	0.12	13	3	96
JN12011-081		<10	<1	<0.01	<10	0.79	11800	<1	0.02	6	180	<2	5.03	14	23	41
JN12011-082		<10	1	<0.01	<10	0.88	12250	24	0.02	1	290	<2	0.49	<2	3	39
JN12011-083		20	<1	<0.01	<10	0.39	8600	1	0.02	<1	160	<2	0.23	<2	2	22
JN12011-084		10	<1	0.01	<10	0.25	8210	<1	0.02	2	290	<2	0.08	<2	1	36
JN12011-085		<10	<1	0.03	<10	0.08	1100	<1	0.02	<1	110	<2	0.01	<2	<1	11
JN12011-086		<10	<1	0.02	<10	0.07	1225	<1	0.02	1	80	<2	0.22	<2	<1	12
JN12011-087		<10	<1	0.01	10	0.08	1090	<1	0.03	1	170	<2	0.28	<2	<1	14
JN12011-088		<10	<1	0.32	10	0.47	714	24	0.10	15	500	2	0.30	<2	4	163
JN12011-089		<10	<1	0.32	20	0.51	467	59	0.05	18	190	6	0.14	3	5	78
JN12011-090		<10	<1	0.37	10	0.59	251	34	0.09	20	140	<2	0.06	<2	5	40
JN12011-090D		10	<1	0.36	10	0.59	250	28	0.08	20	130	<2	0.06	<2	5	36
JN12011-091		<10	<1	0.75	20	0.75	348	16	0.04	37	110	2	0.35	<2	6	24
JN12011-092		10	<1	0.83	10	0.85	328	15	0.05	38	1050	<2	0.17	<2	7	26
JN12011-093		<10	<1	0.11	10	0.27	193	15	0.07	8	90	<2	0.06	<2	2	43
JN12011-094		<10	<1	0.22	10	0.20	249	10	0.02	8	80	9	0.73	<2	2	44
JN12011-095		<10	<1	0.20	10	0.13	212	2	0.01	4	50	31	0.70	2	1	16
JN12011-096		<10	<1	0.29	10	0.32	160	2	0.03	9	90	2	0.07	<2	2	15
JN12011-097		10	<1	0.89	20	0.81	240	1	0.09	28	190	<2	0.09	<2	8	25
JN12011-098		<10	<1	0.42	10	0.54	195	121	0.07	17	130	<2	0.07	<2	4	29
JN12011-099		10	<1	0.74	20	1.00	353	9	0.21	26	450	<2	0.14	<2	7	100
JN12011-100		<10	<1	0.82	20	0.95	298	3	0.05	33	150	<2	0.27	<2	6	26
JN12011-100S		10	<1	0.18	10	0.58	790	10	0.18	24	830	10	0.30	6	3	116
JN12011-101		<10	<1	0.62	10	0.60	423	10	0.05	26	110	6	1.05	3	4	32
JN12011-102		10	<1	0.42	20	0.61	242	3	0.19	20	140	<2	0.18	<2	4	80
JN12011-103		10	<1	0.29	20	0.37	201	6	0.09	3	470	3	0.14	2	4	31
JN12011-104		10	<1	0.86	20	0.89	347	5	0.11	30	190	2	0.27	2	7	42
JN12011-105		10	<1	0.38	30	0.54	236	4	0.28	14	680	<2	0.13	2	3	154
JN12011-106		10	<1	0.19	10	0.41	167	20	0.12	16	750	2	0.26	<2	3	48
JN12011-107		<10	<1	0.14	10	0.30	128	6	0.07	9	100	<2	0.09	<2	2	20
JN12011-108		<10	<1	0.04	10	0.16	130	8	0.07	4	80	2	0.08	2	1	22
JN12011-109		<10	<1	0.25	10	0.35	130	3	0.08	14	110	<2	0.18	<2	3	29
JN12011-110		<10	<1	0.02	20	0.10	112	8	0.14	3	100	<2	0.01	2	1	51

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
JN12011-075		<20	<0.01	<10	<10	67	<10	107
JN12011-076		<20	<0.01	<10	<10	47	10	139
JN12011-077		<20	<0.01	<10	<10	34	10	192
JN12011-078		<20	<0.01	<10	<10	79	10	123
JN12011-079		<20	<0.01	<10	<10	58	10	147
JN12011-080		<20	<0.01	10	<10	10	<10	108
JN12011-080B		20	<0.01	<10	10	1	<10	<2
JN12011-080S		<20	0.14	<10	<10	92	<10	48
JN12011-081		<20	<0.01	<10	<10	45	10	134
JN12011-082		<20	<0.01	<10	<10	13	10	157
JN12011-083		<20	0.02	<10	<10	14	10	134
JN12011-084		<20	0.01	<10	<10	6	<10	118
JN12011-085		<20	<0.01	<10	<10	<1	<10	14
JN12011-086		<20	0.01	<10	<10	1	10	15
JN12011-087		<20	0.02	<10	<10	3	20	14
JN12011-088		<20	0.03	<10	<10	14	40	20
JN12011-089		<20	0.02	<10	<10	19	40	14
JN12011-090		<20	0.09	<10	<10	34	160	15
JN12011-090D		<20	0.08	<10	<10	34	160	16
JN12011-091		<20	0.04	<10	<10	40	10	48
JN12011-092		<20	0.09	<10	<10	44	<10	44
JN12011-093		<20	0.02	<10	<10	14	90	8
JN12011-094		<20	<0.01	<10	<10	7	260	15
JN12011-095		<20	<0.01	<10	<10	3	240	73
JN12011-096		<20	0.04	<10	<10	14	180	8
JN12011-097		<20	0.14	<10	<10	54	<10	18
JN12011-098		<20	0.09	<10	<10	33	110	13
JN12011-099		<20	0.15	<10	<10	52	120	30
JN12011-100		<20	0.07	<10	<10	40	<10	32
JN12011-100S		<20	0.11	<10	<10	59	10	63
JN12011-101		<20	0.05	<10	<10	28	<10	40
JN12011-102		<20	0.10	<10	<10	34	40	17
JN12011-103		<20	0.07	<10	<10	20	50	12
JN12011-104		<20	0.09	<10	<10	50	110	32
JN12011-105		<20	0.11	<10	<10	32	510	22
JN12011-106		<20	0.07	<10	<10	25	100	13
JN12011-107		<20	0.06	<10	<10	20	80	12
JN12011-108		<20	0.05	<10	<10	10	170	7
JN12011-109		<20	0.08	<10	<10	27	80	14
JN12011-110		<20	0.05	<10	<10	6	40	5

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12011-111		2.88	<0.005	<0.2	0.89	<2	<10	10	<0.5	<2	0.77	<0.5	1	32	3	0.95
JN12011-112		3.00	0.039	<0.2	0.62	<2	<10	<10	<0.5	6	0.73	<0.5	1	25	16	1.14
JN12011-113		2.42	0.006	<0.2	1.43	3	<10	30	0.6	2	0.66	<0.5	6	42	20	1.64
JN12011-114		2.86	<0.005	<0.2	2.44	5	<10	60	1.1	<2	0.56	<0.5	10	47	25	3.25
JN12011-115		0.62	<0.005	<0.2	0.84	2	<10	30	0.5	<2	1.17	<0.5	3	31	3	1.47
JN12011-116		2.18	<0.005	<0.2	1.83	2	<10	50	0.9	<2	0.57	<0.5	9	46	21	2.79
JN12011-117		2.62	0.008	<0.2	0.86	<2	<10	90	0.5	4	0.75	<0.5	3	8	4	1.69
JN12011-118		3.36	<0.005	<0.2	0.70	2	<10	50	0.7	5	1.18	<0.5	3	8	5	1.79
JN12011-119		2.86	0.030	<0.2	0.89	<2	<10	90	0.5	7	0.67	<0.5	3	8	3	1.87
JN12011-120		2.70	0.087	<0.2	0.85	<2	<10	80	0.6	5	0.95	<0.5	3	7	4	1.95
JN12011-120D		<0.02	0.076	<0.2	0.82	2	<10	80	0.6	3	0.94	<0.5	3	7	3	1.80
JN12011-120B		2.22	<0.005	0.6	0.03	<2	<10	<10	<0.5	<2	>25.0	<0.5	<1	1	4	0.03
JN12011-120S		0.08	4.07	57.5	1.95	1040	<10	180	<0.5	2	1.02	<0.5	9	19	105	3.50
JN12011-121		2.02	0.046	<0.2	0.67	<2	<10	70	0.5	4	0.96	<0.5	2	6	6	1.49
JN12011-122		1.60	0.125	1.3	0.41	28	<10	20	1.0	101	1.28	<0.5	2	6	19	1.29
JN12011-123		2.54	<0.005	<0.2	0.48	2	<10	40	0.7	3	1.93	<0.5	3	4	24	1.95
JN12011-124		3.34	<0.005	<0.2	0.73	<2	<10	70	0.5	2	0.85	<0.5	2	7	10	1.88
JN12011-125		2.96	0.012	0.7	0.46	3	<10	40	0.5	9	1.31	0.9	3	4	25	1.87
JN12011-126		3.20	0.011	0.2	0.60	3	<10	60	0.6	3	1.00	<0.5	3	6	12	1.99
JN12011-127		3.16	0.041	0.5	0.63	3	<10	60	0.5	34	0.98	<0.5	2	5	10	1.78
JN12011-128		2.78	0.175	0.2	0.85	<2	<10	90	0.5	30	0.66	<0.5	2	6	5	1.86
JN12011-129		2.16	0.007	<0.2	0.79	2	<10	90	0.6	2	0.74	<0.5	3	6	4	1.73
JN12011-130		1.60	0.069	0.4	0.42	<2	<10	30	0.7	26	0.95	<0.5	2	7	7	1.42
JN12011-131		0.70	0.032	<0.2	0.77	2	<10	70	0.8	8	0.70	<0.5	2	7	4	1.58
JN12011-132		1.78	0.145	0.4	0.49	2	<10	50	<0.5	154	0.72	<0.5	2	9	7	1.48
JN12011-133		1.54	0.010	0.3	0.83	2	<10	100	<0.5	18	0.74	<0.5	3	10	9	2.03
JN12011-134		3.04	<0.005	<0.2	1.05	2	<10	140	<0.5	<2	0.47	<0.5	3	11	4	2.13
JN12011-135		1.12	0.042	0.6	0.69	<2	<10	50	0.7	7	0.98	0.7	2	7	8	1.64
JN12011-136		0.78	0.029	0.2	0.83	2	<10	60	0.6	7	0.65	<0.5	2	8	7	1.65
JN12011-137		0.58	0.085	0.4	0.65	2	<10	20	0.8	35	0.78	<0.5	1	10	5	1.17
JN12011-138		2.68	0.047	<0.2	1.02	3	<10	130	<0.5	6	0.56	<0.5	3	12	5	2.08
JN12011-139		2.66	0.049	<0.2	0.87	<2	<10	100	<0.5	8	0.53	<0.5	2	10	7	1.80
JN12011-140		1.94	0.318	1.5	0.53	4	<10	50	0.8	32	1.38	<0.5	2	9	7	1.64
JN12011-140S		0.08	0.941	0.5	1.76	1390	30	90	<0.5	24	3.70	<0.5	47	25	133	3.79
JN12011-141		3.36	0.048	1.7	0.76	<2	<10	90	0.6	15	0.80	2.8	3	11	6	1.72
JN12011-142		3.16	0.083	<0.2	0.94	<2	<10	120	0.5	32	0.64	<0.5	2	12	9	2.02
JN12011-143		3.22	<0.005	<0.2	0.84	<2	<10	120	<0.5	4	0.67	<0.5	3	11	6	2.05
JN12011-144		2.94	0.030	<0.2	0.88	<2	<10	130	<0.5	7	0.57	<0.5	2	10	4	1.96
JN12011-145		0.74	0.007	1.5	0.34	<2	<10	40	<0.5	12	0.80	<0.5	2	11	8	1.51
JN12011-146		2.38	<0.005	0.2	0.39	2	<10	40	0.7	3	1.35	<0.5	2	8	6	1.72

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ca	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12011-111		<10	<1	0.09	20	0.22	131	7	0.11	5	100	<2	0.02	<2	2	35
JN12011-112		<10	<1	0.04	10	0.24	159	28	0.06	4	100	2	0.11	<2	1	20
JN12011-113		10	<1	0.42	10	0.51	157	66	0.09	19	130	2	0.12	<2	4	22
JN12011-114		10	<1	1.05	20	0.87	223	29	0.07	34	650	<2	0.14	<2	7	17
JN12011-115		<10	<1	0.33	10	0.40	323	46	0.07	12	210	<2	0.09	3	5	46
JN12011-116		10	<1	0.78	20	0.71	271	55	0.07	27	190	<2	0.17	<2	6	17
JN12011-117		<10	<1	0.33	20	0.35	223	64	0.07	3	410	4	0.05	<2	4	25
JN12011-118		<10	<1	0.25	20	0.29	289	63	0.07	1	380	7	0.07	<2	3	56
JN12011-119		<10	<1	0.32	20	0.35	275	12	0.07	2	400	7	0.05	<2	4	28
JN12011-120		<10	<1	0.28	20	0.33	283	20	0.08	1	410	5	0.05	2	4	39
JN12011-120D		<10	<1	0.27	20	0.32	264	16	0.07	1	410	5	0.05	<2	4	39
JN12011-120B		<10	<1	<0.01	<10	1.79	23	<1	0.03	1	50	<2	0.07	2	<1	5720
JN12011-120S		10	<1	0.26	10	0.76	487	9	0.22	13	590	7	0.12	16	3	98
JN12011-121		<10	<1	0.25	20	0.28	218	<1	0.07	2	350	5	0.05	<2	3	43
JN12011-122		<10	<1	0.14	10	0.21	207	1	0.06	2	360	43	0.38	6	2	66
JN12011-123		<10	<1	0.23	10	0.19	512	1	0.04	1	410	6	0.75	2	2	87
JN12011-124		<10	<1	0.30	20	0.30	261	53	0.07	2	400	9	0.30	<2	3	48
JN12011-125		<10	<1	0.23	20	0.18	477	16	0.04	2	380	42	0.72	<2	2	79
JN12011-126		<10	<1	0.26	20	0.28	306	3	0.06	2	370	10	0.38	2	3	65
JN12011-127		<10	<1	0.27	20	0.28	268	2	0.06	1	390	20	0.33	3	3	53
JN12011-128		<10	<1	0.36	20	0.32	258	6	0.08	2	390	14	0.14	2	4	35
JN12011-129		<10	<1	0.31	20	0.32	257	27	0.07	2	400	3	0.11	<2	4	41
JN12011-130		<10	<1	0.23	10	0.20	252	225	0.05	2	340	18	0.30	<2	2	58
JN12011-131		<10	<1	0.30	20	0.31	209	3	0.08	2	390	2	0.10	<2	4	38
JN12011-132		<10	<1	0.27	20	0.21	270	11	0.05	2	330	16	0.24	3	2	43
JN12011-133		<10	<1	0.39	20	0.34	290	2	0.08	1	390	24	0.14	<2	4	38
JN12011-134		10	<1	0.50	20	0.39	289	3	0.11	1	410	3	0.07	<2	6	22
JN12011-135		<10	<1	0.28	20	0.26	265	777	0.06	1	420	27	0.32	<2	3	34
JN12011-136		10	<1	0.29	20	0.38	203	5	0.09	2	420	5	0.13	<2	4	24
JN12011-137		<10	<1	0.20	20	0.26	156	4	0.09	1	390	4	0.11	<2	3	27
JN12011-138		10	<1	0.50	20	0.40	261	7	0.10	1	420	5	0.09	<2	5	24
JN12011-139		10	<1	0.47	20	0.35	221	9	0.10	2	400	4	0.11	<2	5	24
JN12011-140		<10	<1	0.30	20	0.24	601	23	0.05	1	370	92	0.34	<2	3	55
JN12011-140S		<10	<1	0.18	10	0.58	774	10	0.18	22	810	10	0.31	4	3	113
JN12011-141		<10	<1	0.40	20	0.30	340	6	0.07	1	390	119	0.25	<2	4	34
JN12011-142		10	<1	0.45	20	0.38	256	25	0.09	1	450	5	0.07	<2	5	25
JN12011-143		10	<1	0.43	20	0.36	273	8	0.09	1	410	7	0.16	<2	5	33
JN12011-144		10	<1	0.49	20	0.35	273	2	0.09	1	390	11	0.10	<2	5	27
JN12011-145		<10	<1	0.20	10	0.19	361	24	0.04	1	270	85	0.35	<2	2	39
JN12011-146		<10	<1	0.23	20	0.24	386	19	0.04	1	380	10	0.36	<2	3	89

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12011-111		<20	0.09	<10	<10	13	60	8
JN12011-112		<20	0.07	<10	<10	10	100	8
JN12011-113		<20	0.10	<10	<10	36	40	16
JN12011-114		<20	0.12	<10	<10	52	<10	38
JN12011-115		<20	0.06	<10	<10	27	<10	13
JN12011-116		<20	0.13	<10	<10	49	10	27
JN12011-117		<20	0.07	<10	<10	22	130	14
JN12011-118		<20	0.04	<10	<10	14	10	17
JN12011-119		<20	0.09	<10	<10	22	10	20
JN12011-120		<20	0.06	<10	<10	19	<10	17
JN12011-120D		<20	0.05	<10	<10	19	<10	18
JN12011-120B		20	<0.01	<10	<10	<1	<10	<2
JN12011-120S		<20	0.13	<10	<10	87	<10	49
JN12011-121		<20	0.05	<10	<10	16	20	14
JN12011-122		<20	0.01	<10	<10	8	70	16
JN12011-123		<20	0.01	<10	<10	7	<10	61
JN12011-124		<20	0.04	<10	<10	15	10	11
JN12011-125		<20	0.01	<10	<10	7	10	117
JN12011-126		<20	0.03	<10	<10	12	20	17
JN12011-127		<20	0.03	<10	<10	12	60	20
JN12011-128		<20	0.07	<10	<10	19	20	15
JN12011-129		<20	0.06	<10	<10	18	10	13
JN12011-130		<20	0.01	<10	<10	6	120	11
JN12011-131		<20	0.06	<10	<10	19	80	15
JN12011-132		<20	0.02	<10	<10	8	40	50
JN12011-133		<20	0.07	<10	<10	20	10	17
JN12011-134		<20	0.14	<10	<10	27	10	21
JN12011-135		<20	0.03	<10	<10	14	40	97
JN12011-136		<20	0.08	<10	<10	22	120	14
JN12011-137		<20	0.04	<10	<10	15	130	9
JN12011-138		<20	0.12	<10	<10	26	20	17
JN12011-139		<20	0.10	<10	<10	23	30	13
JN12011-140		<20	0.03	<10	<10	10	60	57
JN12011-140S		<20	0.11	<10	<10	61	10	63
JN12011-141		<20	0.06	<10	<10	17	30	331
JN12011-142		<20	0.10	<10	<10	25	160	17
JN12011-143		<20	0.09	<10	<10	21	170	35
JN12011-144		<20	0.11	<10	<10	23	10	19
JN12011-145		<20	0.01	<10	<10	7	400	20
JN12011-146		<20	0.01	<10	<10	7	10	15

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CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12011-147		3.22	0.007	<0.2	0.41	<2	<10	40	0.7	9	1.18	<0.5	2	7	6	1.89
JN12011-148		2.24	<0.005	2.6	0.36	6	<10	30	0.8	8	1.21	1.3	3	10	9	2.05
JN12011-149		3.42	<0.005	0.2	0.60	<2	<10	70	0.7	4	1.08	<0.5	3	10	6	2.15
JN12011-150		3.16	0.006	0.2	0.54	<2	<10	60	0.5	10	0.92	<0.5	2	8	6	1.83
JN12011-150D		<0.02	<0.005	0.2	0.54	<2	<10	50	0.5	6	0.96	<0.5	2	9	7	1.83
JN12011-151		2.30	<0.005	0.2	0.71	2	<10	70	0.5	7	0.85	<0.5	3	10	7	2.00
JN12011-152		2.38	<0.005	<0.2	0.92	<2	<10	110	<0.5	2	0.65	<0.5	3	10	7	2.10
JN12011-153		1.84	0.007	0.3	0.62	3	<10	20	0.6	13	1.86	<0.5	3	8	8	1.53
JN12011-154		0.66	0.089	2.5	0.47	>10000	<10	30	<0.5	10	0.74	0.6	3	7	12	2.61
JN12011-155		1.70	0.014	0.7	0.56	29	<10	20	0.6	4	1.22	<0.5	3	6	14	1.83
JN12011-156		1.76	<0.005	0.7	0.58	14	<10	50	0.5	2	1.16	1.1	3	7	19	1.94
JN12011-157		2.16	0.019	0.9	0.66	4	<10	20	0.6	5	1.51	<0.5	3	7	10	1.50
JN12011-158		1.32	0.127	5.9	0.32	76	40	50	0.5	26	0.17	1.8	5	11	46	2.67
JN12011-159		1.26	0.016	0.7	0.47	5	10	30	0.5	13	1.07	1.1	4	8	32	2.03
JN12011-160		2.88	0.030	<0.2	0.51	2	10	60	0.5	6	1.10	<0.5	3	11	19	1.85
JN12011-160B		2.38	<0.005	0.4	0.04	4	<10	10	<0.5	<2	>25.0	<0.5	<1	1	2	0.04
JN12011-160S		0.08	1.130	0.5	1.75	1420	30	90	<0.5	23	3.65	<0.5	48	25	139	3.77
JN12011-161		2.56	0.007	<0.2	0.34	2	10	30	0.5	4	1.20	<0.5	2	9	20	1.75
JN12011-162		1.14	<0.005	<0.2	0.34	2	10	30	0.6	<2	1.26	<0.5	3	8	21	1.57
JN12011-163		3.06	<0.005	<0.2	0.70	2	<10	100	0.5	<2	0.69	<0.5	3	10	17	2.00
JN12011-164		3.40	<0.005	<0.2	0.76	<2	<10	80	0.5	<2	0.73	<0.5	3	11	10	2.06
JN12011-165		3.30	<0.005	<0.2	0.78	<2	<10	90	<0.5	<2	0.75	<0.5	3	10	9	2.00
JN12011-166		3.16	<0.005	<0.2	0.75	2	<10	90	<0.5	<2	0.68	<0.5	2	10	5	1.90
JN12011-167		2.98	<0.005	<0.2	0.88	4	<10	110	<0.5	<2	0.51	<0.5	3	10	4	1.99
JN12011-168		3.30	<0.005	<0.2	0.92	<2	<10	120	<0.5	<2	0.59	<0.5	3	11	6	2.14

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12011-147		<10	<1	0.21	20	0.28	288	6	0.05	<1	400	9	0.24	<2	3	85
JN12011-148		<10	<1	0.20	20	0.26	458	5	0.04	<1	400	189	0.25	<2	3	79
JN12011-149		<10	<1	0.27	20	0.33	296	2	0.06	<1	420	10	0.21	<2	4	77
JN12011-150		<10	<1	0.27	20	0.28	313	8	0.05	<1	370	14	0.23	<2	3	48
JN12011-150D		<10	<1	0.27	20	0.28	317	10	0.05	<1	380	10	0.24	<2	3	49
JN12011-151		<10	<1	0.32	20	0.31	313	10	0.06	1	410	8	0.25	<2	4	35
JN12011-152		<10	<1	0.40	20	0.36	274	5	0.09	<1	410	3	0.21	<2	5	29
JN12011-153		<10	<1	0.13	20	0.14	312	26	0.01	1	400	21	0.38	<2	3	27
JN12011-154		<10	<1	0.24	10	0.07	451	14	0.01	1	310	193	1.23	14	2	6
JN12011-155		<10	<1	0.17	20	0.14	573	19	0.01	1	420	51	0.49	<2	2	26
JN12011-156		<10	<1	0.33	20	0.19	558	24	0.04	<1	370	62	0.79	<2	2	50
JN12011-157		<10	<1	0.14	20	0.13	332	22	0.01	1	400	42	0.53	2	2	18
JN12011-158		<10	<1	0.19	10	0.03	372	129	0.01	1	330	260	1.79	4	<1	5
JN12011-159		<10	<1	0.21	20	0.07	342	15	0.01	1	340	25	1.11	<2	1	18
JN12011-160		<10	<1	0.29	20	0.19	425	68	0.04	1	360	6	0.65	<2	2	41
JN12011-160B		<10	1	0.01	<10	1.80	22	<1	0.01	2	50	<2	0.10	<2	<1	5660
JN12011-160S		<10	1	0.18	10	0.58	792	9	0.17	24	810	13	0.32	5	3	113
JN12011-161		<10	1	0.23	10	0.18	411	13	0.02	2	340	10	0.70	3	1	67
JN12011-162		<10	<1	0.21	10	0.15	349	15	0.03	1	340	5	0.61	2	1	73
JN12011-163		<10	1	0.37	20	0.31	240	7	0.07	2	380	5	0.39	<2	4	33
JN12011-164		<10	<1	0.32	20	0.33	261	6	0.07	2	400	4	0.27	<2	4	43
JN12011-165		<10	1	0.33	20	0.33	286	7	0.07	2	390	6	0.23	<2	4	41
JN12011-166		<10	<1	0.32	20	0.31	306	5	0.07	2	380	5	0.08	<2	4	41
JN12011-167		<10	<1	0.40	20	0.33	290	1	0.09	2	360	5	0.09	<2	5	27
JN12011-168		10	<1	0.43	20	0.36	308	4	0.08	1	400	6	0.13	<2	5	30

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12180287

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12011-147		<20	0.01	<10	<10	9	20	16
JN12011-148		<20	<0.01	<10	<10	5	<10	198
JN12011-149		<20	0.03	<10	<10	14	10	17
JN12011-150		<20	0.03	<10	<10	12	90	17
JN12011-150D		<20	0.03	<10	<10	11	90	15
JN12011-151		<20	0.04	<10	<10	16	40	15
JN12011-152		<20	0.09	<10	<10	22	20	18
JN12011-153		<20	<0.01	<10	<10	8	20	23
JN12011-154		<20	<0.01	<10	<10	3	10	77
JN12011-155		<20	<0.01	<10	<10	4	40	47
JN12011-156		<20	0.02	<10	<10	8	80	151
JN12011-157		<20	<0.01	<10	<10	6	160	55
JN12011-158		<20	<0.01	<10	<10	1	60	231
JN12011-159		<20	<0.01	<10	<10	3	230	130
JN12011-160		<20	0.03	<10	<10	9	320	7
JN12011-160B		30	<0.01	<10	20	1	<10	2
JN12011-160S		<20	0.11	<10	<10	61	10	65
JN12011-161		<20	<0.01	<10	<10	4	350	7
JN12011-162		<20	0.01	<10	<10	4	70	6
JN12011-163		<20	0.07	<10	<10	17	20	11
JN12011-164		<20	0.06	<10	<10	18	20	13
JN12011-165		<20	0.06	<10	<10	19	30	13
JN12011-166		<20	0.07	<10	<10	19	<10	16
JN12011-167		<20	0.10	<10	<10	22	30	16
JN12011-168		<20	0.10	<10	<10	24	10	18

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE WH12179305

Project:

P.O. No.: JN12- 004

This report is for 64 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%<75um
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12011-169		2.26	0.016	<0.2	1.08	3	<10	130	<0.5	<2	0.65	<0.5	4	8	31	2.27
JN12011-170		2.90	<0.005	<0.2	0.91	<2	<10	110	<0.5	<2	0.86	<0.5	4	8	11	2.20
JN12011-171		0.91	<0.005	0.4	0.62	<2	<10	70	0.6	<2	1.12	9.0	4	6	20	2.23
JN12011-172		3.52	<0.005	<0.2	1.13	<2	<10	150	<0.5	2	0.53	<0.5	3	10	7	2.35
JN12011-173		3.44	<0.005	<0.2	1.13	2	<10	140	<0.5	2	0.60	<0.5	3	9	11	2.31
JN12011-174		3.41	<0.005	<0.2	0.80	<2	<10	90	0.5	2	0.82	<0.5	4	7	16	2.27
JN12011-175		3.32	<0.005	<0.2	0.62	<2	<10	50	0.6	2	1.19	<0.5	3	7	20	2.30
JN12011-176		2.96	<0.005	<0.2	0.55	<2	<10	50	0.6	<2	1.23	<0.5	3	6	15	2.08
JN12011-177		3.24	<0.005	<0.2	0.76	<2	10	80	0.6	<2	1.11	0.7	4	6	25	2.33
JN12011-178		3.38	<0.005	<0.2	0.55	2	<10	50	0.6	3	1.03	0.5	3	7	41	2.41
JN12011-179		2.90	<0.005	<0.2	0.63	3	<10	60	0.6	2	0.94	<0.5	3	7	22	2.13
JN12011-180		1.52	<0.005	0.2	0.36	<2	<10	30	<0.5	2	0.23	<0.5	2	4	18	1.57
JN12011-180-S		0.02	3.95	58.4	2.01	1085	<10	190	<0.5	2	1.11	<0.5	9	20	109	3.77
JN12011-181		2.28	0.006	1.0	0.18	9	<10	20	<0.5	3	0.19	1.4	2	14	15	1.42
JN12011-182		1.50	0.017	2.1	0.42	13	20	30	<0.5	27	0.58	4.6	3	5	38	2.27
JN12011-183		2.51	0.014	1.3	0.51	4	10	40	0.6	9	2.37	<0.5	2	10	22	2.17
JN12011-184		2.54	<0.005	<0.2	0.85	<2	<10	100	<0.5	<2	0.71	<0.5	4	8	9	2.22
JN12011-185		1.62	<0.005	<0.2	0.84	2	<10	100	0.5	<2	0.71	<0.5	3	7	10	2.14
JN12011-186		0.64	0.231	6.6	0.33	6	<10	30	<0.5	247	1.10	<0.5	2	5	16	1.61
JN12011-187		2.97	0.009	<0.2	0.80	<2	<10	90	<0.5	2	0.80	<0.5	3	9	14	2.23
JN12011-188		2.99	<0.005	<0.2	0.72	<2	<10	70	<0.5	<2	0.96	<0.5	3	7	13	2.19
JN12011-189		3.09	<0.005	<0.2	0.76	<2	<10	90	0.5	<2	0.83	<0.5	3	8	6	2.27
JN12011-190		2.94	<0.005	<0.2	0.64	<2	<10	70	0.5	<2	1.01	<0.5	3	7	6	2.15
JN12011-191		3.46	<0.005	<0.2	0.62	<2	10	60	0.6	<2	1.14	<0.5	3	7	10	2.16
JN12011-192		3.23	<0.005	<0.2	0.57	<2	10	60	0.6	<2	1.34	<0.5	3	6	22	2.27
JN12011-193		3.42	<0.005	1.3	0.88	<2	<10	100	<0.5	12	1.23	<0.5	4	9	13	2.26
JN12011-194		3.14	<0.005	<0.2	0.86	2	<10	80	<0.5	<2	0.87	<0.5	4	8	8	2.29
JN12011-195		3.49	<0.005	<0.2	0.65	<2	<10	60	0.6	<2	1.24	<0.5	4	8	8	2.10
JN12011-196		3.71	<0.005	<0.2	1.09	<2	<10	130	<0.5	<2	0.60	<0.5	3	10	4	2.33
JN12011-197		3.62	<0.005	<0.2	0.93	2	<10	110	<0.5	<2	0.78	<0.5	3	11	10	2.29
JN12011-198		3.59	<0.005	<0.2	0.65	2	<10	70	0.6	<2	1.14	<0.5	3	7	19	2.07
JN12011-199		2.85	<0.005	0.2	0.48	4	10	40	0.7	<2	1.43	<0.5	3	5	19	2.19
JN12011-200		3.41	0.005	1.2	0.52	8	10	40	0.6	3	0.94	3.1	3	5	21	2.33
JN12011-200-S		0.03	NSS	0.5	1.87	1470	20	100	<0.5	25	3.83	<0.5	49	26	141	3.98
JN12011-201		2.15	<0.005	<0.2	0.60	9	<10	50	0.6	<2	1.71	<0.5	4	6	13	2.38
JN12011-202		3.36	<0.005	<0.2	0.66	2	<10	60	0.5	<2	1.11	<0.5	3	7	11	1.98
JN12011-203		3.30	<0.005	0.8	0.71	<2	<10	60	0.6	2	1.40	3.3	3	7	14	2.32
JN12011-204		3.15	<0.005	1.0	0.71	2	<10	60	0.6	3	1.49	4.2	3	6	17	2.07
JN12011-205		3.56	<0.005	<0.2	0.79	<2	<10	70	0.6	<2	1.15	0.6	3	8	16	2.18
JN12011-206		2.45	<0.005	<0.2	0.52	6	<10	40	0.6	<2	1.27	<0.5	3	7	11	1.96

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

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12011-169		10	1	0.47	20	0.42	345	14	0.12	3	410	5	0.11	<2	5	31
JN12011-170		<10	1	0.38	20	0.37	330	<1	0.09	2	430	5	0.21	<2	5	34
JN12011-171		<10	<1	0.28	20	0.27	324	1	0.06	2	460	8	0.46	<2	4	44
JN12011-172		10	1	0.52	20	0.39	288	1	0.13	2	410	4	0.10	<2	5	26
JN12011-173		10	<1	0.49	20	0.37	297	1	0.13	2	410	4	0.18	<2	5	29
JN12011-174		<10	1	0.34	20	0.34	283	1	0.08	1	410	5	0.31	<2	4	41
JN12011-175		<10	1	0.31	20	0.25	398	1	0.05	2	390	7	0.61	<2	3	61
JN12011-176		<10	<1	0.28	20	0.31	314	3	0.05	2	390	6	0.43	<2	3	74
JN12011-177		<10	<1	0.44	20	0.27	437	1	0.05	2	420	6	0.83	<2	3	51
JN12011-178		<10	<1	0.35	20	0.19	397	6	0.04	2	390	8	1.13	<2	2	46
JN12011-179		<10	<1	0.36	20	0.25	357	8	0.05	2	410	4	0.66	<2	3	40
JN12011-180		<10	<1	0.22	10	0.09	364	9	0.01	1	300	20	0.63	<2	1	8
JN12011-180-S		<10	1	0.27	10	0.81	515	9	0.24	14	620	10	0.14	16	3	96
JN12011-181		<10	<1	0.13	<10	0.02	245	10	0.01	2	110	54	0.52	<2	<1	2
JN12011-182		<10	<1	0.26	10	0.10	464	4	0.01	2	370	99	0.89	5	1	25
JN12011-183		<10	<1	0.33	10	0.19	860	8	0.02	2	400	72	0.90	2	1	83
JN12011-184		<10	<1	0.37	20	0.35	293	3	0.09	2	410	5	0.21	<2	4	42
JN12011-185		<10	1	0.38	20	0.33	265	1	0.08	2	420	4	0.25	<2	4	36
JN12011-186		<10	<1	0.23	10	0.18	397	261	0.02	2	340	168	0.49	6	1	51
JN12011-187		<10	<1	0.37	20	0.33	290	1	0.07	1	400	5	0.35	<2	4	40
JN12011-188		<10	<1	0.32	20	0.31	356	1	0.07	2	410	6	0.36	<2	4	49
JN12011-189		<10	<1	0.34	20	0.34	341	3	0.08	2	400	6	0.21	<2	4	46
JN12011-190		<10	1	0.29	20	0.31	336	10	0.06	2	410	7	0.25	<2	4	59
JN12011-191		<10	<1	0.30	20	0.31	314	3	0.06	2	410	6	0.35	<2	3	69
JN12011-192		<10	1	0.31	20	0.26	349	30	0.05	2	390	7	0.78	<2	3	82
JN12011-193		<10	<1	0.41	20	0.36	635	3	0.08	2	410	51	0.28	2	4	55
JN12011-194		<10	<1	0.32	20	0.36	344	<1	0.09	2	420	5	0.23	<2	4	56
JN12011-195		<10	<1	0.29	20	0.33	357	7	0.07	1	420	6	0.20	<2	4	87
JN12011-196		10	<1	0.47	20	0.39	383	1	0.12	1	430	3	0.10	<2	5	36
JN12011-197		<10	<1	0.38	20	0.36	340	1	0.10	1	430	6	0.24	<2	5	41
JN12011-198		<10	<1	0.33	20	0.26	421	1	0.06	<1	420	13	0.65	<2	3	62
JN12011-199		<10	<1	0.24	20	0.23	523	1	0.04	1	460	11	0.84	<2	2	90
JN12011-200		<10	<1	0.27	10	0.17	636	3	0.02	<1	450	273	1.11	<2	2	41
JN12011-200-S		<10	<1	0.19	10	0.61	846	10	0.19	23	850	7	0.33	5	3	119
JN12011-201		<10	<1	0.24	20	0.28	883	1	0.05	1	430	18	0.55	<2	3	83
JN12011-202		<10	<1	0.32	20	0.25	496	<1	0.06	<1	400	18	0.41	<2	3	57
JN12011-203		<10	<1	0.33	20	0.25	630	2	0.05	<1	420	130	0.67	<2	3	65
JN12011-204		<10	<1	0.36	20	0.21	707	32	0.05	1	400	194	0.75	<2	2	72
JN12011-205		<10	<1	0.36	20	0.28	426	14	0.06	1	440	29	0.60	<2	3	57
JN12011-206		<10	<1	0.25	20	0.25	357	1	0.05	1	410	11	0.38	<2	3	74

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12011- 169		<20	0.11	<10	<10	25	10	21
JN12011- 170		<20	0.08	<10	<10	22	10	14
JN12011- 171		<20	0.03	<10	<10	16	10	827
JN12011- 172		<20	0.12	<10	<10	27	10	17
JN12011- 173		<20	0.10	<10	<10	24	<10	17
JN12011- 174		<20	0.06	<10	<10	18	<10	14
JN12011- 175		<20	0.02	<10	<10	10	10	21
JN12011- 176		<20	0.02	<10	<10	10	20	11
JN12011- 177		<20	0.04	<10	<10	12	20	71
JN12011- 178		<20	0.01	<10	<10	6	30	49
JN12011- 179		<20	0.02	<10	<10	10	170	21
JN12011- 180		<20	<0.01	<10	<10	3	390	22
JN12011- 180- S		<20	0.16	<10	<10	92	<10	53
JN12011- 181		<20	<0.01	<10	<10	1	470	155
JN12011- 182		<20	<0.01	<10	<10	2	30	553
JN12011- 183		<20	<0.01	<10	<10	4	160	28
JN12011- 184		<20	0.07	<10	<10	21	10	14
JN12011- 185		<20	0.07	<10	<10	20	10	11
JN12011- 186		<20	0.01	<10	<10	4	400	6
JN12011- 187		<20	0.06	<10	<10	17	10	12
JN12011- 188		<20	0.04	<10	<10	15	<10	12
JN12011- 189		<20	0.05	<10	<10	17	10	16
JN12011- 190		<20	0.04	<10	<10	14	20	14
JN12011- 191		<20	0.02	<10	<10	12	10	12
JN12011- 192		<20	0.02	<10	<10	8	<10	14
JN12011- 193		<20	0.07	<10	<10	20	10	12
JN12011- 194		<20	0.05	<10	<10	19	<10	16
JN12011- 195		<20	0.03	<10	<10	13	10	14
JN12011- 196		<20	0.10	<10	<10	26	<10	24
JN12011- 197		<20	0.07	<10	<10	22	<10	16
JN12011- 198		<20	0.02	<10	<10	11	<10	10
JN12011- 199		<20	<0.01	<10	<10	5	<10	12
JN12011- 200		<20	<0.01	<10	<10	4	10	410
JN12011- 200- S		<20	0.12	<10	<10	64	10	68
JN12011- 201		<20	0.02	<10	<10	13	<10	20
JN12011- 202		<20	0.03	<10	<10	12	<10	40
JN12011- 203		<20	0.02	<10	<10	12	<10	372
JN12011- 204		<20	0.01	<10	<10	9	<10	497
JN12011- 205		<20	0.03	<10	<10	14	10	72
JN12011- 206		<20	0.01	<10	<10	9	<10	15

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ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
JN12011-207		2.72	0.140	2.2	0.51	6480	10	40	0.7	6	1.60	6.1	3	5	18	2.55
JN12011-208		1.96	0.011	0.3	0.49	21	10	30	1.0	2	1.72	1.6	4	4	20	2.17
JN12011-209		3.51	<0.005	<0.2	0.42	8	<10	40	0.7	<2	1.45	<0.5	2	6	11	1.97
JN12011-210		3.33	0.015	0.4	0.46	3	10	40	0.7	22	1.25	<0.5	3	6	12	2.06
JN12011-210-D		<0.02	0.018	0.2	0.46	<2	10	40	0.7	15	1.27	<0.5	3	5	12	1.98
JN12011-211		2.37	<0.005	<0.2	0.74	<2	<10	80	0.6	<2	0.85	<0.5	3	8	12	2.14
JN12011-212		2.19	<0.005	<0.2	0.55	<2	<10	60	0.6	<2	0.98	<0.5	3	6	12	1.99
JN12011-213		0.79	<0.005	<0.2	0.47	3	10	40	0.8	<2	1.75	<0.5	3	5	16	2.50
JN12011-214		3.36	<0.005	<0.2	0.66	<2	<10	70	0.5	<2	0.78	<0.5	3	7	11	1.94
JN12011-215		2.57	<0.005	<0.2	0.80	2	<10	80	0.6	<2	0.86	<0.5	3	8	8	2.29
JN12011-216		2.84	0.007	0.5	0.53	2	<10	30	0.5	4	0.38	<0.5	4	4	30	2.14
JN12011-217		3.26	<0.005	<0.2	0.55	<2	<10	30	0.6	2	0.82	<0.5	3	5	28	2.44
JN12011-218		2.82	<0.005	<0.2	0.66	<2	<10	60	<0.5	<2	0.67	<0.5	3	5	12	1.99
JN12011-219		3.06	<0.005	0.2	0.80	<2	<10	100	<0.5	4	0.59	<0.5	3	6	10	2.13
JN12011-220		3.45	<0.005	<0.2	0.64	<2	<10	80	0.5	<2	0.87	<0.5	3	7	17	1.91
JN12011-220-S		0.03	4.04	58.5	2.03	1100	<10	190	<0.5	2	1.10	<0.5	10	21	106	3.74
JN12011-221		3.53	0.007	<0.2	0.82	<2	<10	90	0.5	<2	0.84	<0.5	3	10	14	2.20
JN12011-222		3.25	<0.005	<0.2	0.67	2	<10	80	0.5	<2	0.73	<0.5	3	6	12	1.90
JN12011-223		3.36	<0.005	<0.2	0.90	<2	<10	110	<0.5	<2	0.67	<0.5	3	8	10	2.26
JN12011-224		3.80	<0.005	<0.2	0.81	<2	<10	100	<0.5	<2	0.75	<0.5	3	10	12	2.03
JN12011-225		2.96	<0.005	<0.2	0.79	2	<10	80	0.6	<2	1.04	<0.5	3	8	17	2.42
JN12011-226		3.49	<0.005	<0.2	0.61	2	<10	50	0.6	<2	1.08	<0.5	3	8	13	1.95
JN12011-227		3.50	<0.005	<0.2	0.82	<2	<10	90	0.5	<2	0.76	<0.5	5	10	15	2.29
JN12011-228		2.13	<0.005	<0.2	0.64	<2	<10	80	0.5	<2	0.77	<0.5	6	6	13	1.97

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
JN12011- 207		<10	<1	0.30	10	0.18	565	<1	0.03	1	380	473	1.32	22	2	87
JN12011- 208		<10	<1	0.24	20	0.21	407	<1	0.04	1	400	73	0.76	3	3	75
JN12011- 209		<10	<1	0.23	20	0.22	323	2	0.04	1	390	7	0.46	<2	2	85
JN12011- 210		<10	<1	0.24	20	0.27	311	<1	0.05	1	390	12	0.36	<2	3	86
JN12011- 210- D		<10	<1	0.24	20	0.27	306	<1	0.05	1	390	13	0.39	<2	3	88
JN12011- 211		<10	<1	0.33	20	0.31	288	9	0.08	1	400	5	0.29	<2	4	49
JN12011- 212		<10	<1	0.24	20	0.29	283	43	0.05	1	410	4	0.41	<2	4	57
JN12011- 213		<10	<1	0.26	20	0.23	480	1	0.04	<1	410	8	0.58	<2	2	99
JN12011- 214		<10	<1	0.27	20	0.28	277	4	0.05	1	400	7	0.36	<2	4	36
JN12011- 215		<10	<1	0.33	20	0.33	324	3	0.08	1	400	3	0.20	<2	4	50
JN12011- 216		<10	<1	0.20	20	0.12	453	1	0.01	1	400	25	1.00	2	2	16
JN12011- 217		<10	<1	0.23	20	0.18	439	33	0.02	1	390	6	0.82	<2	2	25
JN12011- 218		<10	<1	0.27	20	0.29	303	<1	0.05	<1	400	3	0.32	<2	4	36
JN12011- 219		<10	<1	0.34	20	0.32	285	<1	0.06	<1	380	5	0.24	<2	4	24
JN12011- 220		<10	<1	0.34	20	0.25	293	1	0.05	<1	390	4	0.55	<2	3	39
JN12011- 220- S		10	<1	0.27	10	0.81	520	9	0.23	14	610	7	0.13	15	4	100
JN12011- 221		<10	<1	0.36	20	0.32	318	<1	0.08	1	400	3	0.34	<2	4	35
JN12011- 222		<10	<1	0.28	20	0.31	249	<1	0.06	1	400	3	0.27	<2	4	39
JN12011- 223		10	<1	0.38	20	0.33	285	<1	0.10	1	410	2	0.19	<2	5	33
JN12011- 224		<10	<1	0.35	20	0.35	277	<1	0.08	1	400	2	0.28	<2	4	37
JN12011- 225		<10	<1	0.34	20	0.32	329	1	0.07	<1	440	4	0.47	<2	4	55
JN12011- 226		<10	<1	0.27	20	0.27	286	1	0.05	1	440	4	0.48	<2	3	52
JN12011- 227		<10	<1	0.34	20	0.35	262	3	0.10	5	410	6	0.18	<2	5	45
JN12011- 228		<10	<1	0.30	20	0.35	241	6	0.07	3	400	5	0.20	<2	4	48

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

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12011- 207		<20	<0.01	<10	<10	4	<10	743
JN12011- 208		<20	<0.01	<10	<10	6	<10	202
JN12011- 209		<20	<0.01	<10	<10	6	40	11
JN12011- 210		<20	0.01	<10	<10	8	<10	12
JN12011- 210- D		<20	0.01	<10	<10	8	<10	12
JN12011- 211		<20	0.04	<10	<10	16	20	11
JN12011- 212		<20	0.03	<10	<10	14	<10	11
JN12011- 213		<20	<0.01	<10	<10	6	<10	10
JN12011- 214		<20	0.04	<10	<10	17	10	14
JN12011- 215		<20	0.05	<10	<10	19	<10	14
JN12011- 216		<20	<0.01	<10	<10	4	10	34
JN12011- 217		<20	<0.01	<10	<10	5	20	16
JN12011- 218		<20	0.04	<10	<10	15	<10	13
JN12011- 219		<20	0.07	<10	<10	21	<10	13
JN12011- 220		<20	0.05	<10	<10	14	<10	10
JN12011- 220- S		<20	0.15	<10	<10	94	<10	54
JN12011- 221		<20	0.05	<10	<10	18	<10	11
JN12011- 222		<20	0.05	<10	<10	18	10	11
JN12011- 223		<20	0.08	<10	<10	22	<10	13
JN12011- 224		<20	0.06	<10	<10	20	10	12
JN12011- 225		<20	0.03	<10	<10	15	10	11
JN12011- 226		<20	0.02	<10	<10	12	<10	10
JN12011- 227		<20	0.06	<10	<10	21	<10	15
JN12011- 228		<20	0.05	<10	<10	17	10	13

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 15- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179305

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non- sufficient sample.

ALS Canada Ltd.
2103 Dollarton Hwy
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE WH12188730

Project:

P.O. No.: JN12- 008

This report is for 119 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%< 75um
BAG- 01	Bulk Master for Storage
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%< 75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12012- 001		2.66	0.011	<0.2	0.67	<2	<10	10	<0.5	10	9.1	<0.5	1	4	<1	7.52
JN12012- 002		2.88	<0.005	<0.2	0.64	<2	20	<10	<0.5	3	8.6	<0.5	<1	4	<1	6.69
JN12012- 003		1.08	<0.005	<0.2	0.55	<2	290	<10	<0.5	2	11.6	<0.5	<1	3	<1	6.43
JN12012- 004		4.22	<0.005	<0.2	0.61	<2	10	<10	<0.5	2	4.75	<0.5	1	4	9	3.85
JN12012- 005		4.48	0.009	<0.2	0.62	4	<10	<10	<0.5	8	3.98	<0.5	1	3	2	3.14
JN12012- 006		2.48	<0.005	<0.2	0.52	2	340	<10	<0.5	<2	7.4	<0.5	1	2	2	3.77
JN12012- 007		2.30	0.011	<0.2	1.15	3	10	<10	1.0	17	6.55	<0.5	2	8	87	5.28
JN12012- 008		2.14	0.060	<0.2	1.64	3	<10	<10	1.0	184	6.31	<0.5	1	12	2	4.47
JN12012- 009		2.68	<0.005	<0.2	2.58	2	<10	<10	2.0	18	6.56	<0.5	2	19	21	3.97
JN12012- 010		2.80	<0.005	<0.2	3.29	4	10	<10	2.9	11	6.52	<0.5	6	22	98	4.21
JN12012- 011		3.38	0.034	<0.2	2.24	2	<10	10	1.6	87	9.8	<0.5	1	18	39	6.65
JN12012- 012		1.20	0.043	0.3	1.68	24	<10	40	3.0	56	9.1	<0.5	10	19	793	16.0
JN12012- 013		4.06	0.021	<0.2	1.46	17	<10	<10	<0.5	10	13.8	<0.5	<1	12	95	10.60
JN12012- 014		4.08	0.008	<0.2	1.20	<2	<10	<10	0.7	7	8.3	<0.5	1	10	26	6.23
JN12012- 015		4.24	0.015	<0.2	1.30	2	20	<10	1.2	47	5.68	<0.5	1	9	94	5.04
JN12012- 016		3.94	<0.005	<0.2	1.38	4	<10	<10	<0.5	<2	11.6	<0.5	<1	9	10	8.52
JN12012- 017		4.24	0.044	<0.2	0.72	<2	<10	<10	0.9	36	4.00	<0.5	2	6	1	3.42
JN12012- 018		3.76	0.114	<0.2	0.97	<2	<10	<10	0.5	116	8.0	<0.5	1	8	10	6.19
JN12012- 019		4.18	0.024	<0.2	0.97	2	<10	<10	0.5	18	6.70	<0.5	1	9	4	5.53
JN12012- 020		3.14	0.020	<0.2	1.13	2	<10	<10	0.7	26	3.92	<0.5	1	8	<1	2.90
JN12012- 020S		0.08	0.945	0.4	1.93	1415	30	100	<0.5	27	3.80	<0.5	48	26	140	3.82
JN12012- 020B		2.36	<0.005	<0.2	0.03	3	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.05
JN12012- 021		2.90	0.009	<0.2	0.40	<2	<10	<10	0.8	9	1.13	<0.5	1	3	1	1.22
JN12012- 022		4.78	<0.005	<0.2	0.46	<2	10	<10	0.6	2	1.56	<0.5	2	3	<1	1.68
JN12012- 023		4.70	0.006	<0.2	0.45	<2	<10	<10	1.0	6	1.23	<0.5	2	2	<1	1.36
JN12012- 024		3.68	0.022	<0.2	0.20	<2	<10	<10	0.9	7	1.68	<0.5	2	1	<1	1.76
JN12012- 025		0.74	0.158	<0.2	1.90	<2	<10	30	5.8	31	3.19	<0.5	5	1	5	9.93
JN12012- 026		1.86	0.005	<0.2	2.04	<2	<10	10	3.1	<2	2.37	<0.5	2	1	10	1.34
JN12012- 027		4.16	0.022	<0.2	0.36	<2	<10	<10	0.5	10	2.36	<0.5	3	1	41	2.97
JN12012- 028		5.04	0.034	<0.2	0.24	<2	<10	<10	0.9	13	1.36	<0.5	2	1	<1	2.10
JN12012- 029		3.88	0.005	<0.2	2.61	<2	<10	<10	1.8	3	2.68	<0.5	2	<1	1	1.67
JN12012- 030		2.68	<0.005	<0.2	5.27	<2	<10	10	2.7	4	4.26	<0.5	2	1	<1	1.33
JN12012- 030D		<0.02	<0.005	<0.2	5.19	<2	<10	10	2.6	4	4.19	<0.5	2	<1	<1	1.29
JN12012- 031		1.78	0.033	<0.2	2.47	<2	<10	40	4.0	31	1.46	<0.5	13	1	109	9.92
JN12012- 032		1.30	0.019	0.4	1.21	13	<10	20	1.7	9	0.69	<0.5	25	2	602	13.85
JN12012- 033		1.66	<0.005	<0.2	1.04	<2	<10	40	5.7	5	2.57	<0.5	3	6	27	30.6
JN12012- 034		1.14	<0.005	<0.2	2.66	4	<10	40	2.6	<2	3.58	<0.5	2	2	6	2.26
JN12012- 035		1.26	<0.005	<0.2	1.81	6	<10	10	2.3	<2	2.04	<0.5	3	1	36	1.08
JN12012- 036		2.40	<0.005	<0.2	1.21	<2	<10	30	1.2	<2	1.31	<0.5	2	4	2	1.09
JN12012- 037		2.44	<0.005	<0.2	1.27	2	<10	30	1.2	<2	1.53	<0.5	3	4	1	1.09

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12012-001		10	<1	<0.01	10	0.05	1305	10	0.01	<1	230	4	0.02	<2	1	5
JN12012-002		10	1	<0.01	10	0.04	1135	24	0.01	<1	200	3	0.01	<2	1	4
JN12012-003		10	<1	0.01	10	0.10	2600	23	0.01	<1	350	2	0.01	<2	<1	12
JN12012-004		10	<1	0.01	10	0.05	976	33	0.01	<1	270	2	<0.01	<2	<1	5
JN12012-005		10	<1	0.02	10	0.04	1095	18	0.01	<1	270	<2	<0.01	<2	<1	7
JN12012-006		10	<1	0.01	10	0.02	2020	4	0.01	<1	280	<2	0.01	<2	<1	8
JN12012-007		10	<1	0.05	10	0.06	1920	18	0.01	<1	230	4	0.63	<2	1	37
JN12012-008		10	1	0.02	10	0.05	1420	8	0.02	<1	140	<2	0.01	<2	2	21
JN12012-009		10	<1	0.02	20	0.10	1300	13	0.03	2	190	2	0.03	<2	2	96
JN12012-010		10	1	0.03	30	0.14	1245	38	0.04	4	250	2	0.58	<2	3	122
JN12012-011		10	1	0.02	10	0.10	1610	74	0.02	1	160	4	0.16	<2	3	16
JN12012-012		10	1	0.01	20	0.26	4470	11	0.02	5	190	7	2.11	5	5	38
JN12012-013		10	1	0.02	10	0.05	1510	4	0.02	<1	450	6	0.27	<2	2	12
JN12012-014		10	<1	0.01	10	0.06	1245	54	0.01	<1	450	3	0.03	<2	1	8
JN12012-015		20	<1	0.05	10	0.06	1175	40	0.03	<1	380	2	0.04	<2	1	15
JN12012-016		10	1	0.01	10	0.05	1445	6	0.01	<1	340	2	0.08	<2	1	7
JN12012-017		10	1	0.03	10	0.04	1075	51	0.02	<1	240	<2	0.01	<2	1	7
JN12012-018		10	<1	0.03	10	0.04	1240	12	0.02	<1	350	<2	0.02	<2	1	10
JN12012-019		10	<1	0.01	10	0.03	1210	189	0.02	<1	260	3	0.02	<2	1	4
JN12012-020		10	<1	0.02	10	0.05	1045	20	0.02	<1	350	3	0.01	<2	1	12
JN12012-020S		10	1	0.18	10	0.59	844	11	0.18	24	860	11	0.33	5	3	119
JN12012-020B		<10	1	<0.01	<10	1.70	26	<1	0.01	1	50	<2	0.08	<2	<1	5240
JN12012-021		10	<1	0.03	<10	0.01	400	63	0.04	<1	380	<2	<0.01	<2	<1	10
JN12012-022		10	<1	0.03	10	0.01	561	102	0.04	<1	300	<2	0.01	<2	<1	7
JN12012-023		10	<1	0.03	<10	0.03	542	172	0.04	<1	260	<2	0.01	<2	<1	17
JN12012-024		<10	<1	0.01	<10	0.06	885	65	0.01	<1	340	<2	0.02	<2	<1	7
JN12012-025		10	<1	0.03	10	0.11	5490	852	0.08	<1	350	8	0.10	<2	1	86
JN12012-026		10	<1	0.05	10	0.04	570	491	0.12	<1	410	3	0.04	<2	<1	107
JN12012-027		10	<1	0.01	10	0.05	883	29	0.01	<1	160	2	0.23	<2	<1	13
JN12012-028		<10	<1	0.01	<10	0.05	1015	55	0.01	<1	170	<2	0.01	<2	<1	7
JN12012-029		10	<1	0.04	10	0.05	758	184	0.05	<1	370	3	0.01	<2	<1	126
JN12012-030		20	1	0.05	10	0.04	705	54	0.13	<1	510	3	<0.01	<2	<1	264
JN12012-030D		10	1	0.05	10	0.04	672	54	0.13	<1	510	4	<0.01	<2	<1	259
JN12012-031		10	<1	0.06	20	0.31	4990	109	0.01	1	890	6	0.42	2	8	38
JN12012-032		10	1	0.18	20	0.26	4760	448	0.01	1	570	16	7.57	4	5	10
JN12012-033		20	1	0.02	20	0.74	14100	3	0.02	<1	260	14	0.07	<2	2	35
JN12012-034		10	<1	0.05	10	0.07	752	20	0.11	1	540	2	0.04	<2	1	136
JN12012-035		10	<1	0.06	10	0.07	469	73	0.12	32	480	2	0.01	<2	<1	96
JN12012-036		<10	<1	0.12	10	0.13	339	61	0.13	<1	460	2	0.01	<2	1	91
JN12012-037		<10	<1	0.11	10	0.12	337	32	0.12	<1	450	2	0.05	<2	1	86

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
JN12012-001		<20	0.02	<10	10	6	50	16
JN12012-002		<20	0.02	<10	<10	6	60	14
JN12012-003		<20	0.02	<10	<10	6	40	13
JN12012-004		<20	0.02	<10	<10	5	40	13
JN12012-005		<20	0.02	<10	<10	6	30	16
JN12012-006		<20	0.02	<10	<10	7	20	15
JN12012-007		<20	0.04	<10	<10	9	40	28
JN12012-008		<20	0.06	<10	<10	14	70	21
JN12012-009		<20	0.10	<10	<10	20	50	26
JN12012-010		<20	0.13	<10	<10	23	30	39
JN12012-011		<20	0.08	<10	<10	20	190	27
JN12012-012		<20	0.02	<10	<10	29	20	73
JN12012-013		<20	0.05	<10	<10	15	20	12
JN12012-014		<20	0.04	<10	10	11	100	16
JN12012-015		<20	0.04	<10	10	10	50	25
JN12012-016		<20	0.04	<10	10	12	10	11
JN12012-017		<20	0.03	<10	10	6	320	19
JN12012-018		<20	0.04	<10	10	9	70	13
JN12012-019		<20	0.04	<10	<10	9	170	17
JN12012-020		<20	0.04	<10	<10	9	60	14
JN12012-020S		<20	0.12	<10	<10	63	10	65
JN12012-020B		20	<0.01	<10	<10	<1	<10	<2
JN12012-021		<20	0.03	<10	<10	3	370	12
JN12012-022		<20	0.03	<10	<10	3	160	16
JN12012-023		<20	0.02	<10	<10	2	480	16
JN12012-024		<20	0.01	<10	<10	1	210	18
JN12012-025		<20	0.02	<10	10	6	150	112
JN12012-026		<20	0.04	<10	<10	3	650	17
JN12012-027		<20	0.01	<10	<10	2	260	19
JN12012-028		<20	0.01	<10	<10	1	280	22
JN12012-029		<20	0.05	<10	<10	4	220	19
JN12012-030		<20	0.06	<10	<10	4	350	21
JN12012-030D		<20	0.06	<10	<10	4	350	20
JN12012-031		<20	<0.01	<10	<10	21	60	70
JN12012-032		<20	<0.01	<10	<10	20	50	82
JN12012-033		<20	0.01	<10	<10	13	60	217
JN12012-034		<20	0.05	<10	<10	5	150	24
JN12012-035		<20	0.05	<10	<10	4	270	44
JN12012-036		<20	0.08	<10	<10	10	90	12
JN12012-037		<20	0.07	<10	<10	9	30	15

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12012- 038		1.56	<0.005	<0.2	1.08	4	<10	10	1.7	<2	0.66	<0.5	8	3	3	3.90
JN12012- 039		1.50	<0.005	<0.2	0.57	<2	<10	10	1.1	2	0.46	<0.5	11	3	7	4.42
JN12012- 040		1.68	0.033	<0.2	0.55	2	<10	10	1.1	31	0.49	<0.5	6	3	17	5.32
JN12012- 040S		0.08	4.01	54.9	1.78	1005	<10	170	<0.5	<2	0.97	<0.5	10	19	99	3.51
JN12012- 040B		2.18	<0.005	<0.2	0.11	4	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	2	0.10
JN12012- 041		0.80	0.015	0.9	0.56	18	<10	10	0.8	10	0.60	0.7	7	3	267	3.66
JN12012- 042		1.30	0.025	0.3	0.84	<2	<10	10	2.9	22	0.80	<0.5	10	4	81	8.17
JN12012- 043		1.50	0.035	0.4	1.13	16	<10	10	5.6	49	0.98	<0.5	17	3	866	10.85
JN12012- 044		1.94	0.012	0.5	0.87	17	<10	20	3.1	11	1.01	<0.5	10	4	332	11.75
JN12012- 045		0.96	0.029	0.9	0.65	32	<10	40	1.4	10	0.45	<0.5	11	2	479	11.95
JN12012- 046		2.18	0.021	<0.2	0.36	11	<10	20	2.6	9	1.51	<0.5	4	7	63	27.5
JN12012- 047		2.36	0.126	<0.2	0.25	56	<10	10	1.7	6	0.86	<0.5	3	12	74	30.0
JN12012- 048		1.78	0.036	0.5	0.56	18	<10	30	3.2	27	1.37	<0.5	8	20	189	28.1
JN12012- 049		1.66	0.160	0.5	0.20	41	<10	10	1.5	27	0.75	<0.5	9	9	520	30.7
JN12012- 050		2.64	0.010	<0.2	0.47	6	<10	30	4.3	10	1.89	<0.5	3	10	43	29.7
JN12012- 051		3.38	0.019	<0.2	0.50	<2	<10	10	1.1	20	2.37	<0.5	2	4	12	4.03
JN12012- 052		4.58	0.007	<0.2	0.60	3	<10	10	0.6	7	5.52	<0.5	1	5	12	5.86
JN12012- 053		4.36	0.016	<0.2	0.56	4	<10	<10	0.7	16	9.5	<0.5	<1	4	172	9.56
JN12012- 054		4.46	0.031	<0.2	0.52	3	<10	<10	0.5	15	11.5	<0.5	<1	3	82	10.95
JN12012- 055		4.26	0.009	<0.2	0.43	5	<10	<10	0.6	7	8.0	<0.5	<1	3	9	7.55
JN12012- 056		4.62	<0.005	<0.2	0.33	2	<10	<10	<0.5	3	5.53	<0.5	1	3	7	5.18
JN12012- 057		0.72	0.007	<0.2	0.35	6	<10	30	4.9	8	7.6	<0.5	2	3	19	19.7
JN12012- 058		1.40	<0.005	<0.2	0.54	2	<10	10	0.7	3	8.8	<0.5	<1	7	2	8.07
JN12012- 059		0.88	0.005	<0.2	0.27	12	<10	40	7.4	8	6.40	<0.5	6	3	69	29.7
JN12012- 060		0.68	0.164	0.6	0.13	17	<10	10	1.6	15	1.05	<0.5	8	5	388	25.1
JN12012- 060S		0.08	4.39	55.2	1.82	1030	<10	180	<0.5	<2	1.00	<0.5	10	20	101	3.63
JN12012- 060B		2.20	<0.005	<0.2	0.02	4	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.05
JN12012- 060D		<0.02	<0.005	<0.2	0.02	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.05
JN12012- 061		1.42	0.021	0.2	0.33	4	<10	30	5.0	24	4.26	<0.5	7	6	37	26.5
JN12012- 062		3.88	0.008	<0.2	0.36	4	<10	<10	0.5	5	4.02	<0.5	1	4	5	3.79
JN12012- 063		2.92	<0.005	<0.2	0.31	<2	<10	<10	<0.5	3	2.45	<0.5	1	3	2	2.61
JN12012- 064		2.50	0.010	<0.2	0.15	<2	<10	<10	<0.5	11	2.35	<0.5	1	1	4	2.30
JN12012- 065		3.98	0.024	<0.2	0.39	2	<10	10	1.0	32	1.81	<0.5	2	2	<1	2.21
JN12012- 066		1.96	0.046	<0.2	3.46	<2	10	20	2.6	50	3.80	<0.5	2	1	2	2.29
JN12012- 067		1.78	0.032	<0.2	0.19	<2	<10	<10	1.0	23	1.27	<0.5	2	1	<1	1.74
JN12012- 068		0.98	0.091	<0.2	0.24	2	<10	20	5.6	35	5.88	<0.5	5	3	1	12.75
JN12012- 069		1.92	0.254	<0.2	0.14	2	<10	10	1.2	50	1.00	<0.5	2	1	7	1.82
JN12012- 094		2.98	0.025	0.3	1.84	12	<10	70	1.3	19	1.13	<0.5	13	33	17	3.61
JN12012- 095		0.88	0.005	<0.2	0.50	5	<10	20	0.6	<2	1.50	2.1	4	7	10	1.50
JN12012- 096		3.32	0.020	<0.2	1.90	6	<10	90	1.2	10	1.11	<0.5	8	34	27	3.12

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12012-038		<10	<1	0.05	20	0.14	1670	138	0.02	1	530	4	0.04	<2	5	17
JN12012-039		<10	<1	0.02	30	0.11	1935	34	0.02	<1	580	5	0.11	<2	6	8
JN12012-040		<10	<1	0.01	20	0.20	2250	43	0.02	<1	580	6	0.18	<2	6	8
JN12012-040S		<10	1	0.24	10	0.76	461	8	0.21	11	570	7	0.13	14	3	88
JN12012-040B		<10	<1	<0.01	<10	1.72	44	<1	0.02	<1	50	<2	0.13	<2	<1	5130
JN12012-041		<10	<1	0.07	10	0.11	1110	22	0.02	<1	450	49	1.68	4	3	54
JN12012-042		10	<1	0.04	10	0.23	3180	28	0.02	<1	450	2	0.46	2	5	19
JN12012-043		10	<1	0.06	10	0.19	2240	18	0.02	<1	500	3	3.42	<2	4	19
JN12012-044		<10	<1	0.08	10	0.27	4410	123	0.02	<1	630	7	1.64	<2	7	20
JN12012-045		<10	<1	0.16	20	0.28	3060	25	0.02	<1	510	18	6.90	6	5	16
JN12012-046		<10	<1	0.03	10	0.78	10900	1	0.03	<1	260	<2	1.28	3	4	17
JN12012-047		10	1	<0.01	<10	0.37	6040	3	0.02	2	100	<2	>10.0	18	3	9
JN12012-048		10	<1	<0.01	10	0.54	8730	6	0.03	2	170	3	3.63	<2	4	19
JN12012-049		<10	2	<0.01	<10	0.33	5430	2	0.02	<1	210	2	>10.0	28	3	8
JN12012-050		10	1	0.01	10	0.58	9920	4	0.03	<1	210	3	1.74	<2	2	22
JN12012-051		10	<1	0.11	<10	0.06	1125	2	0.07	<1	60	<2	0.10	<2	<1	8
JN12012-052		10	1	0.08	<10	0.05	1335	1	0.06	<1	70	<2	0.06	<2	1	7
JN12012-053		10	1	0.03	<10	0.06	1585	2	0.03	<1	140	<2	0.68	<2	1	11
JN12012-054		10	<1	0.02	<10	0.05	1515	2	0.03	<1	190	2	0.34	<2	<1	7
JN12012-055		10	<1	0.03	<10	0.04	1340	3	0.03	<1	130	<2	0.06	<2	<1	7
JN12012-056		10	<1	0.01	<10	0.04	1145	1	0.02	<1	120	<2	0.04	<2	<1	5
JN12012-057		10	1	0.01	<10	0.18	7560	11	0.03	<1	170	<2	0.03	<2	1	20
JN12012-058		10	<1	0.02	<10	0.05	1765	2	0.02	<1	260	<2	0.03	<2	1	7
JN12012-059		10	1	0.01	<10	0.36	12950	4	0.03	<1	350	5	0.95	<2	1	29
JN12012-060		<10	<1	<0.01	<10	0.54	6590	49	0.02	<1	120	2	>10.0	33	1	10
JN12012-060S		<10	<1	0.25	10	0.78	480	8	0.22	13	590	7	0.14	15	3	91
JN12012-060B		<10	<1	<0.01	<10	1.94	29	<1	0.03	<1	60	<2	0.13	<2	<1	5280
JN12012-060D		<10	<1	<0.01	<10	1.99	30	<1	0.02	<1	50	<2	0.13	<2	<1	5240
JN12012-061		10	<1	0.01	<10	0.59	9430	17	0.03	<1	160	<2	0.12	<2	1	42
JN12012-062		10	1	0.03	<10	0.07	990	11	0.03	<1	100	<2	0.03	<2	<1	20
JN12012-063		10	1	0.04	<10	0.06	779	8	0.04	<1	310	<2	0.01	<2	<1	6
JN12012-064		<10	<1	0.02	<10	0.03	587	26	0.03	<1	220	<2	0.02	<2	<1	6
JN12012-065		<10	<1	0.07	<10	0.07	851	48	0.03	<1	190	<2	0.01	<2	<1	11
JN12012-066		10	<1	0.16	10	0.08	847	27	0.11	<1	510	<2	0.01	<2	1	164
JN12012-067		<10	<1	0.05	<10	0.05	697	5	0.02	<1	210	<2	0.01	<2	<1	5
JN12012-068		<10	<1	0.04	<10	0.15	6500	<1	0.02	<1	140	<2	0.02	<2	1	29
JN12012-069		<10	<1	0.06	<10	0.05	659	4	0.03	<1	120	<2	0.05	<2	<1	7
JN12012-094		10	<1	0.69	20	0.75	745	12	0.03	33	150	21	0.37	<2	7	42
JN12012-095		<10	1	0.24	10	0.22	598	2	0.03	4	270	20	0.40	<2	5	56
JN12012-096		10	<1	0.87	20	0.81	494	38	0.05	31	340	7	0.39	<2	7	47

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12012-038		20	<0.01	<10	<10	16	10	32
JN12012-039		20	<0.01	<10	<10	22	10	18
JN12012-040		<20	<0.01	<10	<10	22	10	24
JN12012-040S		<20	0.13	<10	<10	86	<10	49
JN12012-040B		20	0.01	<10	10	1	<10	<2
JN12012-041		<20	<0.01	<10	<10	11	<10	146
JN12012-042		<20	<0.01	<10	<10	18	20	34
JN12012-043		<20	<0.01	<10	<10	15	20	51
JN12012-044		20	<0.01	<10	<10	26	20	54
JN12012-045		<20	<0.01	<10	<10	14	<10	62
JN12012-046		<20	<0.01	<10	<10	18	30	149
JN12012-047		<20	0.01	10	<10	14	20	79
JN12012-048		<20	0.01	<10	<10	29	60	92
JN12012-049		<20	<0.01	10	<10	12	20	80
JN12012-050		<20	<0.01	<10	<10	14	30	126
JN12012-051		<20	0.02	<10	<10	5	50	24
JN12012-052		<20	0.02	<10	<10	6	30	17
JN12012-053		<20	0.02	<10	<10	6	30	20
JN12012-054		<20	0.02	<10	<10	5	40	13
JN12012-055		<20	0.02	<10	<10	5	50	13
JN12012-056		<20	0.02	<10	<10	4	40	11
JN12012-057		<20	0.01	<10	<10	7	110	127
JN12012-058		<20	0.03	<10	<10	7	30	19
JN12012-059		<20	0.01	<10	<10	11	100	232
JN12012-060		<20	<0.01	<10	<10	7	20	88
JN12012-060S		<20	0.14	<10	<10	88	<10	50
JN12012-060B		20	<0.01	<10	<10	<1	<10	<2
JN12012-060D		20	<0.01	<10	10	<1	<10	<2
JN12012-061		<20	<0.01	<10	<10	9	70	156
JN12012-062		<20	0.02	<10	<10	4	70	16
JN12012-063		<20	0.02	<10	<10	3	70	15
JN12012-064		<20	0.01	<10	<10	2	130	11
JN12012-065		<20	0.02	<10	<10	3	150	16
JN12012-066		<20	0.06	<10	<10	6	80	23
JN12012-067		<20	0.02	<10	<10	1	10	14
JN12012-068		<20	0.01	<10	<10	6	20	102
JN12012-069		<20	0.01	<10	<10	1	10	15
JN12012-094		<20	0.04	<10	<10	38	70	100
JN12012-095		<20	<0.01	<10	<10	9	30	294
JN12012-096		<20	0.06	<10	<10	38	50	67

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44 - 12TH AVENUE SOUTH
SUITE 200
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CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12012-097		3.20	0.030	<0.2	1.38	23	10	70	1.1	12	1.40	0.5	13	24	36	3.51
JN12012-098		2.02	<0.005	<0.2	1.21	14	<10	80	1.1	<2	0.75	<0.5	11	18	34	3.38
JN12012-099		0.88	<0.005	<0.2	0.68	10	<10	40	0.9	<2	0.69	<0.5	12	27	35	4.41
JN12012-100		3.16	<0.005	<0.2	1.37	12	<10	80	1.1	<2	0.74	<0.5	13	21	36	3.44
JN12012-100S		0.08	4.07	57.1	2.03	1070	<10	190	<0.5	<2	1.15	<0.5	10	20	102	3.74
JN12012-100B		2.18	<0.005	<0.2	0.04	2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.05
JN12012-101		2.68	<0.005	<0.2	1.15	11	<10	70	1.0	<2	0.52	<0.5	11	18	37	3.31
JN12012-102		2.80	<0.005	<0.2	1.13	8	<10	50	1.0	<2	1.09	<0.5	11	24	26	4.42
JN12012-103		1.58	0.019	<0.2	0.87	14	10	60	1.2	7	1.95	<0.5	10	12	29	3.50
JN12012-104		0.24	0.197	0.5	0.57	544	<10	30	1.3	21	0.26	<0.5	11	11	30	8.23
JN12012-105		1.26	0.054	0.2	0.24	57	10	10	<0.5	<2	0.06	<0.5	4	8	37	2.11
JN12012-106		1.84	0.014	0.4	0.34	33	10	20	<0.5	<2	0.06	<0.5	3	9	14	0.66
JN12012-107		2.20	0.018	0.2	0.70	39	10	70	1.0	<2	2.97	<0.5	12	13	32	3.56
JN12012-108		2.84	<0.005	0.2	0.76	15	10	70	0.9	<2	13.6	<0.5	20	12	49	3.61
JN12012-109		1.82	0.012	<0.2	0.75	10	<10	60	1.0	<2	5.72	<0.5	8	16	27	4.60
JN12012-110		2.36	<0.005	<0.2	1.12	17	<10	80	1.6	<2	6.48	<0.5	10	26	31	3.83
JN12012-111		3.64	<0.005	<0.2	1.53	19	<10	60	1.4	<2	7.5	<0.5	10	30	24	3.77
JN12012-112		3.44	<0.005	<0.2	3.98	14	<10	60	1.6	2	5.93	<0.5	17	45	64	4.22
JN12012-113		3.12	<0.005	<0.2	2.88	37	<10	50	1.5	<2	6.21	<0.5	17	37	65	4.18
JN12012-114		3.30	<0.005	<0.2	3.19	33	<10	70	1.2	<2	6.59	<0.5	13	34	34	3.35
JN12012-115		3.50	<0.005	<0.2	2.99	14	<10	70	1.1	<2	5.40	<0.5	14	29	30	2.92
JN12012-116		3.16	<0.005	0.2	3.16	22	<10	190	1.5	<2	4.19	<0.5	14	33	33	3.20
JN12012-117		1.72	<0.005	<0.2	2.61	14	<10	70	1.2	<2	2.97	<0.5	15	34	34	3.63
JN12012-118		2.52	<0.005	<0.2	2.93	18	<10	60	1.2	<2	4.10	<0.5	14	30	30	3.16
JN12012-119		3.66	<0.005	<0.2	3.27	20	<10	50	1.3	<2	5.91	<0.5	12	33	29	3.28
JN12012-120		3.30	<0.005	<0.2	3.12	14	<10	140	1.4	<2	5.01	<0.5	14	33	36	3.26
JN12012-120S		0.08	0.931	0.4	1.84	1430	20	90	<0.5	24	3.86	<0.5	47	26	138	3.89
JN12012-120B		1.84	<0.005	<0.2	0.04	5	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.04
JN12012-120D		<0.02	<0.005	<0.2	0.03	<2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	5	0.05
JN12012-121		3.10	<0.005	0.6	1.73	46	<10	70	1.7	<2	1.49	<0.5	27	35	78	5.14
JN12012-122		1.60	<0.005	0.3	0.84	17	10	70	1.1	2	1.85	<0.5	15	17	37	4.64
JN12012-123		3.14	<0.005	0.4	0.45	47	<10	50	0.5	<2	1.20	<0.5	9	12	16	1.96
JN12012-124		1.46	<0.005	0.2	0.27	11	<10	20	<0.5	<2	0.54	<0.5	5	12	27	0.99
JN12012-125		2.42	<0.005	0.2	0.42	6	<10	10	<0.5	<2	0.22	<0.5	6	16	41	1.32
JN12012-126		2.16	<0.005	<0.2	0.38	5	<10	10	<0.5	<2	0.58	<0.5	4	17	27	1.32
JN12012-127		3.68	<0.005	<0.2	0.35	22	<10	10	<0.5	<2	0.96	<0.5	3	19	9	1.08
JN12012-128		2.02	<0.005	<0.2	0.32	10	<10	20	<0.5	<2	0.65	<0.5	4	17	11	0.82
JN12012-129		1.02	<0.005	0.3	0.42	83	<10	50	<0.5	<2	0.59	<0.5	15	10	13	1.07
JN12012-130		1.80	<0.005	0.6	0.33	15	<10	10	<0.5	<2	0.87	<0.5	5	20	12	1.08

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CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12012-097		<10	<1	0.61	20	0.86	676	22	0.03	35	560	9	0.64	2	6	76
JN12012-098		<10	<1	0.53	20	0.61	634	10	0.02	39	780	6	0.73	2	4	36
JN12012-099		<10	<1	0.30	20	0.47	1280	10	0.01	36	650	4	0.73	<2	6	22
JN12012-100		<10	<1	0.51	20	0.54	670	4	0.02	41	450	5	0.78	<2	5	26
JN12012-100S		<10	<1	0.26	10	0.81	515	8	0.23	12	600	6	0.14	15	4	103
JN12012-100B		<10	<1	0.01	<10	1.83	26	<1	0.02	<1	50	<2	0.08	<2	<1	4760
JN12012-101		<10	<1	0.41	20	0.46	706	24	0.02	42	440	15	0.76	<2	3	26
JN12012-102		<10	<1	0.39	20	0.82	1110	6	0.02	35	430	9	0.55	<2	6	43
JN12012-103		<10	<1	0.43	20	0.86	1145	14	0.02	25	400	14	0.52	2	5	96
JN12012-104		<10	<1	0.24	10	0.23	1725	99	0.01	13	100	13	4.78	16	2	15
JN12012-105		<10	<1	0.14	10	0.01	27	<1	0.01	45	80	11	2.06	15	<1	9
JN12012-106		<10	<1	0.18	10	0.01	31	<1	0.01	4	90	2	0.40	3	<1	9
JN12012-107		<10	<1	0.39	20	0.72	587	<1	0.02	22	440	12	1.11	13	8	136
JN12012-108		<10	<1	0.42	10	0.68	772	<1	0.02	33	1200	12	0.84	11	7	540
JN12012-109		<10	<1	0.34	20	0.66	663	<1	0.02	31	470	13	2.56	21	7	209
JN12012-110		<10	<1	0.37	30	0.79	602	<1	0.02	26	390	8	0.39	<2	8	133
JN12012-111		<10	<1	0.30	30	0.54	514	<1	0.06	28	430	5	0.45	<2	6	153
JN12012-112		10	1	0.21	30	0.79	420	<1	0.32	39	850	13	1.20	<2	8	209
JN12012-113		10	<1	0.25	30	0.63	521	<1	0.16	40	430	19	1.32	<2	6	151
JN12012-114		10	<1	0.25	10	0.68	532	<1	0.22	27	340	11	0.97	<2	6	275
JN12012-115		10	<1	0.19	10	0.46	329	<1	0.29	27	300	18	1.29	<2	4	188
JN12012-116		10	<1	0.25	10	0.49	325	<1	0.26	28	230	25	1.37	<2	5	233
JN12012-117		10	<1	0.26	20	0.62	324	<1	0.18	29	360	14	1.54	<2	5	98
JN12012-118		10	<1	0.28	20	0.50	296	<1	0.21	30	290	16	1.30	<2	4	144
JN12012-119		10	<1	0.20	10	0.43	329	<1	0.25	29	750	20	1.56	<2	4	196
JN12012-120		10	<1	0.17	20	0.43	369	<1	0.23	29	2280	26	1.54	<2	5	178
JN12012-120S		<10	1	0.18	10	0.59	827	8	0.18	23	820	8	0.32	2	3	117
JN12012-120B		<10	<1	<0.01	<10	1.79	26	<1	0.02	<1	50	<2	0.07	<2	<1	5150
JN12012-120D		<10	<1	<0.01	<10	1.83	31	1	0.02	4	50	7	0.06	<2	<1	5030
JN12012-121		10	<1	0.17	70	0.19	820	2	0.01	61	1940	32	1.71	7	10	69
JN12012-122		<10	<1	0.38	40	0.66	616	1	0.02	34	470	17	0.86	14	7	93
JN12012-123		<10	<1	0.23	30	0.33	253	1	0.01	17	190	9	0.20	4	4	68
JN12012-124		<10	<1	0.08	20	0.16	102	2	0.02	5	120	8	0.22	<2	1	30
JN12012-125		<10	<1	0.03	20	0.20	125	2	0.05	12	120	6	0.28	2	2	16
JN12012-126		<10	<1	0.09	20	0.24	121	2	0.05	16	100	8	0.26	<2	2	38
JN12012-127		<10	<1	0.09	20	0.21	106	2	0.05	8	90	6	0.09	<2	2	33
JN12012-128		<10	<1	0.13	20	0.16	81	2	0.05	9	120	7	0.08	<2	2	39
JN12012-129		<10	<1	0.23	10	0.13	66	2	0.02	14	390	7	0.37	<2	1	32
JN12012-130		<10	<1	0.08	10	0.23	105	3	0.04	10	120	8	0.05	<2	2	42

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 27- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188730

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12012-097		<20	0.03	<10	<10	26	10	115
JN12012-098		<20	<0.01	<10	<10	18	<10	83
JN12012-099		20	<0.01	<10	<10	29	<10	68
JN12012-100		<20	0.01	<10	<10	24	<10	88
JN12012-100S		<20	0.16	<10	<10	92	<10	50
JN12012-100B		20	<0.01	<10	10	<1	<10	<2
JN12012-101		<20	<0.01	<10	<10	20	<10	97
JN12012-102		<20	<0.01	<10	<10	27	<10	92
JN12012-103		<20	<0.01	<10	<10	13	<10	86
JN12012-104		<20	<0.01	<10	<10	8	<10	53
JN12012-105		<20	<0.01	<10	<10	1	<10	13
JN12012-106		<20	<0.01	<10	<10	2	<10	13
JN12012-107		<20	<0.01	<10	<10	15	<10	75
JN12012-108		20	<0.01	<10	<10	13	<10	69
JN12012-109		20	<0.01	<10	<10	21	<10	71
JN12012-110		20	<0.01	<10	<10	34	<10	63
JN12012-111		20	0.01	<10	<10	34	<10	39
JN12012-112		20	0.08	<10	<10	47	<10	56
JN12012-113		20	0.04	<10	<10	40	<10	54
JN12012-114		20	0.08	<10	<10	37	<10	52
JN12012-115		20	0.12	<10	<10	29	<10	52
JN12012-116		20	0.08	<10	<10	33	<10	50
JN12012-117		20	0.05	<10	<10	35	<10	62
JN12012-118		20	0.08	<10	<10	31	<10	35
JN12012-119		20	0.13	<10	<10	31	<10	53
JN12012-120		20	0.10	<10	<10	34	<10	60
JN12012-120S		<20	0.12	<10	<10	64	10	63
JN12012-120B		20	<0.01	<10	10	1	<10	<2
JN12012-120D		20	<0.01	<10	30	1	<10	5
JN12012-121		20	<0.01	<10	<10	46	<10	68
JN12012-122		20	<0.01	<10	<10	22	<10	39
JN12012-123		20	<0.01	<10	<10	9	<10	23
JN12012-124		<20	<0.01	<10	<10	3	<10	11
JN12012-125		<20	<0.01	<10	<10	9	<10	8
JN12012-126		<20	<0.01	<10	<10	8	<10	11
JN12012-127		<20	<0.01	<10	<10	10	<10	10
JN12012-128		<20	<0.01	<10	<10	5	<10	8
JN12012-129		<20	<0.01	<10	<10	4	<10	7
JN12012-130		<20	<0.01	<10	<10	4	<10	11

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE WH12179306

Project:

P.O. No.: JN12- 007

This report is for 27 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

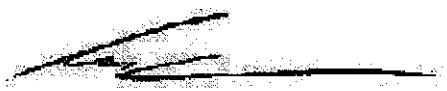
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%<75um
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179306

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12012-070		3.20	0.105	0.3	0.22	6	<10	20	9.0	73	2.55	<0.5	11	5	573	19.2
JN12012-071		1.42	0.358	0.6	0.23	25	<10	20	8.2	380	1.34	<0.5	32	5	1500	21.0
JN12012-072		1.51	0.122	<0.2	0.28	<2	<10	<10	5.5	115	1.90	<0.5	20	5	820	9.03
JN12012-073		2.59	0.394	0.4	0.32	<2	<10	20	6.3	435	1.18	<0.5	28	9	740	16.6
JN12012-074		1.81	0.601	0.7	0.19	8	<10	10	5.8	774	1.03	<0.5	25	9	494	14.8
JN12012-075		2.17	0.338	0.3	0.24	10	<10	20	6.3	331	1.19	<0.5	26	8	645	20.2
JN12012-076		3.60	0.439	0.2	0.36	3	<10	30	8.5	477	1.34	<0.5	22	8	394	17.9
JN12012-077		1.01	0.582	0.3	0.17	6	<10	10	3.0	473	0.62	<0.5	13	12	250	8.47
JN12012-078		0.38	0.134	<0.2	0.19	<2	<10	20	8.1	105	1.92	<0.5	9	7	35	27.4
JN12012-079		2.36	0.323	1.0	0.18	7	<10	20	4.6	268	0.94	<0.5	19	7	298	17.0
JN12012-080		2.22	0.260	0.3	0.14	8	<10	10	2.5	234	0.62	<0.5	12	13	239	8.73
JN12012-080B		2.34	<0.005	<0.2	0.06	6	<10	<10	<0.5	9	>25.0	<0.5	<1	<1	1	0.08
JN12012-080S		0.02	0.965	0.6	1.88	1420	30	100	<0.5	32	3.82	<0.5	48	25	141	3.88
JN12012-081		1.40	0.519	0.2	0.18	7	<10	10	1.4	298	0.55	<0.5	8	15	38	5.39
JN12012-082		1.88	0.103	<0.2	0.15	7	<10	10	2.4	89	0.64	<0.5	8	15	28	7.59
JN12012-083		0.70	0.204	0.2	0.17	<2	<10	10	2.2	139	0.65	<0.5	12	12	15	8.00
JN12012-084		1.35	0.469	0.2	0.14	3	<10	10	1.3	218	0.47	<0.5	7	15	8	4.85
JN12012-085		2.10	0.296	<0.2	0.12	<2	<10	10	1.3	149	0.52	<0.5	6	12	10	5.75
JN12012-086		0.74	0.384	<0.2	0.18	<2	<10	10	0.9	243	0.51	<0.5	7	14	22	4.63
JN12012-087		1.73	0.050	<0.2	0.69	2	<10	20	1.1	33	0.34	<0.5	4	11	11	2.01
JN12012-088		0.90	0.030	<0.2	0.84	<2	<10	30	1.3	24	0.35	<0.5	2	5	1	0.84
JN12012-089		0.96	0.053	0.2	0.62	3	<10	10	1.1	29	0.33	<0.5	2	5	1	0.66
JN12012-090		1.56	0.091	0.3	0.66	<2	<10	10	0.7	47	0.19	<0.5	5	4	59	1.51
JN12012-090D		<0.02	0.093	<0.2	0.47	<2	<10	10	0.7	49	0.19	<0.5	5	3	58	1.43
JN12012-091		3.36	0.131	1.9	0.67	454	<10	30	0.7	143	0.18	1.3	4	11	64	2.86
JN12012-092		0.21	0.244	7.2	0.13	57	50	10	0.5	546	0.15	4.9	8	12	329	3.13
JN12012-093		0.49	0.106	0.2	0.51	5	<10	10	0.8	43	0.29	<0.5	3	5	19	2.14

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179306

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12012- 070		10	<1	0.01	<10	0.37	7370	3	0.02	<1	140	<2	1.35	<2	1	19
JN12012- 071		10	1	0.02	<10	0.28	4720	3	0.03	<1	130	2	8.03	2	1	12
JN12012- 072		10	<1	0.07	<10	0.09	1170	6	0.07	<1	110	<2	3.68	<2	<1	1
JN12012- 073		10	<1	0.01	10	0.33	5000	14	0.02	<1	200	<2	3.43	<2	2	14
JN12012- 074		10	<1	<0.01	10	0.33	4290	2	0.02	<1	150	<2	2.74	<2	1	10
JN12012- 075		10	<1	<0.01	10	0.43	6240	2	0.02	<1	150	<2	3.96	<2	2	11
JN12012- 076		10	<1	0.01	<10	0.41	5530	9	0.03	<1	220	2	2.48	<2	1	17
JN12012- 077		<10	<1	<0.01	10	0.23	2690	4	0.02	2	140	4	1.06	<2	1	6
JN12012- 078		<10	<1	<0.01	10	0.85	11150	2	0.02	<1	330	3	0.21	<2	2	12
JN12012- 079		10	<1	<0.01	10	0.36	6240	1	0.02	<1	220	26	1.81	<2	2	9
JN12012- 080		<10	<1	0.01	20	0.25	3370	5	0.02	3	350	<2	1.05	<2	2	5
JN12012- 080B		<10	<1	<0.01	<10	1.71	34	<1	0.02	2	50	<2	0.10	<2	<1	5310
JN12012- 080S		<10	<1	0.18	10	0.59	820	10	0.19	23	840	11	0.34	3	3	121
JN12012- 081		<10	<1	<0.01	20	0.13	1970	2	0.02	3	430	2	0.60	2	2	17
JN12012- 082		<10	<1	0.01	40	0.19	3030	3	0.02	1	420	8	1.05	2	2	11
JN12012- 083		<10	<1	<0.01	50	0.22	3360	4	0.02	2	410	2	0.20	<2	2	6
JN12012- 084		<10	<1	<0.01	60	0.11	1835	3	0.02	3	640	2	0.45	3	2	6
JN12012- 085		<10	<1	<0.01	30	0.14	2250	24	0.01	1	630	2	0.25	<2	3	5
JN12012- 086		<10	<1	0.01	60	0.11	1560	8	0.01	3	850	<2	0.16	<2	3	5
JN12012- 087		<10	<1	0.14	30	0.12	519	46	0.01	5	400	3	0.05	<2	5	13
JN12012- 088		<10	<1	0.12	30	0.10	138	49	0.02	3	500	2	0.02	<2	2	15
JN12012- 089		<10	<1	0.07	30	0.06	122	94	0.01	2	480	2	0.02	<2	2	13
JN12012- 090		<10	<1	0.15	20	0.10	297	18	0.01	1	440	10	0.14	2	3	8
JN12012- 090D		<10	<1	0.12	20	0.10	289	10	0.01	2	440	8	0.14	3	3	8
JN12012- 091		<10	<1	0.28	20	0.17	611	41	0.01	6	450	82	1.24	4	3	6
JN12012- 092		<10	<1	0.05	10	0.05	253	12	0.01	25	450	402	2.28	12	<1	5
JN12012- 093		<10	<1	0.16	30	0.13	516	4	0.01	7	560	10	0.11	<2	4	10

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 13- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179306

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2
JN12012- 070		<20	0.01	<10	10	10	40	123
JN12012- 071		<20	0.01	<10	10	9	200	66
JN12012- 072		<20	0.01	<10	<10	4	510	23
JN12012- 073		<20	<0.01	<10	<10	15	610	62
JN12012- 074		<20	<0.01	<10	<10	17	170	65
JN12012- 075		<20	<0.01	<10	<10	14	120	78
JN12012- 076		<20	<0.01	<10	<10	16	340	104
JN12012- 077		<20	<0.01	<10	<10	16	200	60
JN12012- 078		<20	0.01	<10	10	25	110	160
JN12012- 079		<20	<0.01	<10	<10	18	100	98
JN12012- 080		<20	<0.01	<10	<10	27	470	54
JN12012- 080B		20	<0.01	<10	<10	1	<10	<2
JN12012- 080S		<20	0.12	<10	<10	61	10	64
JN12012- 081		<20	<0.01	<10	<10	28	120	36
JN12012- 082		<20	<0.01	<10	<10	35	100	52
JN12012- 083		<20	<0.01	<10	<10	45	80	48
JN12012- 084		<20	<0.01	<10	<10	35	110	42
JN12012- 085		<20	<0.01	<10	<10	43	110	22
JN12012- 086		<20	<0.01	<10	<10	39	140	24
JN12012- 087		<20	<0.01	<10	<10	16	20	14
JN12012- 088		<20	0.01	<10	<10	8	20	16
JN12012- 089		<20	0.01	<10	<10	5	20	12
JN12012- 090		<20	<0.01	<10	<10	7	20	20
JN12012- 090D		<20	<0.01	<10	<10	6	20	19
JN12012- 091		<20	<0.01	<10	<10	13	100	161
JN12012- 092		<20	<0.01	<10	<10	2	20	579
JN12012- 093		<20	<0.01	<10	<10	10	20	13

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44 - 12TH AVENUE SOUTH
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Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE WH12191714

Project:

P.O. No.: JN12- 009

This report is for 151 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

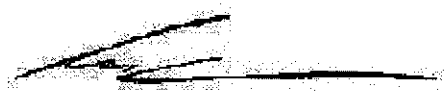
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%< 75um
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%< 75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
W- XRF05	Trace Level W XRF Analysis	XRF
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12013- 001		4.06	0.029	<0.2	0.21	<2	10	<10	1.2	7	1.12	<0.5	1	1	1	1.59
JN12013- 002		3.12	0.027	<0.2	0.51	<2	<10	<10	1.0	5	1.86	<0.5	1	3	1	1.91
JN12013- 003		2.16	0.025	<0.2	0.26	<2	<10	<10	1.1	6	2.04	<0.5	1	1	<1	2.01
JN12013- 004		1.16	0.211	<0.2	0.18	<2	<10	<10	1.3	57	1.07	<0.5	1	1	5	1.42
JN12013- 005		3.26	0.021	<0.2	0.26	<2	<10	<10	1.5	12	1.32	<0.5	2	1	22	1.74
JN12013- 006		2.96	0.005	<0.2	0.19	2	<10	<10	1.2	2	1.28	<0.5	2	<1	5	1.56
JN12013- 007		2.00	0.072	0.8	0.28	4	<10	<10	1.4	49	1.88	<0.5	2	1	24	2.01
JN12013- 008		2.32	0.031	<0.2	0.50	<2	<10	10	0.9	9	1.69	<0.5	1	2	3	1.76
JN12013- 009		2.40	0.228	0.2	0.77	4	<10	20	3.6	29	1.52	<0.5	13	13	96	23.8
JN12013- 010		1.64	0.326	1.8	0.64	8	<10	30	3.4	123	1.06	<0.5	19	13	239	20.3
JN12013- 011		1.92	0.294	<0.2	0.70	7	<10	20	3.2	43	1.34	0.5	14	14	34	22.8
JN12013- 012		1.40	3.11	0.5	0.33	5	<10	20	2.4	437	0.94	<0.5	11	9	140	15.7
JN12013- 013		0.56	0.964	1.0	0.40	22	10	10	2.4	796	0.57	<0.5	30	12	1505	20.0
JN12013- 014		1.30	0.032	<0.2	1.58	2	<10	20	7.3	9	5.98	<0.5	4	15	55	6.95
JN12013- 015		2.56	0.025	<0.2	2.02	3	10	<10	3.6	12	5.56	<0.5	2	16	58	4.42
JN12013- 016		0.90	0.039	0.2	0.96	<2	<10	40	5.5	9	2.29	0.6	10	15	75	23.6
JN12013- 017		0.74	1.245	0.3	1.56	9	<10	30	4.2	143	1.48	<0.5	12	41	30	22.1
JN12013- 018		1.14	0.172	0.2	0.86	<2	<10	40	5.0	15	3.12	1.2	3	10	2	31.2
JN12013- 019		3.10	0.516	<0.2	0.89	3	10	<10	1.6	82	4.41	<0.5	<1	6	1	4.04
JN12013- 020		3.16	0.468	<0.2	0.63	<2	<10	<10	2.1	21	1.76	<0.5	2	4	5	2.12
JN12013- 020S		0.08	1.050	0.5	1.74	1300	20	100	<0.5	27	3.60	<0.5	48	23	136	3.74
JN12013- 020B		1.90	<0.005	<0.2	0.03	<2	<10	<10	<0.5	5	>25.0	<0.5	<1	<1	<1	0.06
JN12013- 021		2.80	2.13	0.3	0.89	<2	<10	<10	6.4	187	3.12	<0.5	10	7	277	6.83
JN12013- 022		2.24	5.30	2.3	0.78	5	<10	10	6.1	2440	1.32	<0.5	24	18	960	8.26
JN12013- 023		2.20	2.55	1.5	1.81	3	<10	<10	19.0	1780	4.74	<0.5	15	17	541	11.65
JN12013- 024		2.90	0.121	<0.2	0.70	<2	<10	<10	2.1	15	2.55	<0.5	1	5	10	2.26
JN12013- 025		2.98	0.029	<0.2	0.43	2	<10	<10	1.0	15	2.71	<0.5	1	2	4	2.25
JN12013- 026		2.80	0.106	<0.2	2.02	2	<10	<10	2.7	30	4.45	<0.5	1	12	1	2.14
JN12013- 027		4.54	0.061	<0.2	0.59	<2	<10	<10	0.9	5	2.99	<0.5	<1	3	1	2.10
JN12013- 028		4.64	0.191	<0.2	0.57	3	<10	<10	2.1	30	2.00	<0.5	1	2	5	1.54
JN12013- 029		4.56	0.049	<0.2	1.53	3	<10	<10	0.6	25	10.7	<0.5	<1	19	3	7.30
JN12013- 030		4.08	0.009	<0.2	1.18	2	<10	<10	0.9	4	7.0	<0.5	1	7	<1	4.78
JN12013- 030D		<0.02	0.005	<0.2	1.14	2	<10	<10	0.8	4	6.7	<0.5	1	6	1	4.58
JN12013- 031		4.22	0.010	<0.2	1.63	3	20	<10	1.8	11	6.20	<0.5	2	15	<1	3.48
JN12013- 032		4.14	0.023	<0.2	2.54	<2	20	<10	2.5	18	7.9	<0.5	1	27	<1	4.24
JN12013- 033		2.14	0.012	<0.2	0.79	2	<10	<10	1.8	<2	1.90	<0.5	1	4	<1	1.33
JN12013- 034		2.68	0.013	<0.2	0.41	2	<10	<10	3.6	3	1.91	<0.5	1	5	<1	1.42
JN12013- 035		3.32	0.014	<0.2	0.38	<2	40	<10	2.6	2	1.70	<0.5	2	2	1	1.42
JN12013- 036		4.26	<0.005	<0.2	0.51	4	<10	<10	1.4	<2	2.89	<0.5	1	3	<1	2.24
JN12013- 037		4.52	<0.005	<0.2	0.70	2	<10	<10	0.5	<2	5.70	<0.5	<1	5	<1	3.93

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12013-001		<10	<1	0.01	<10	0.05	724	57	0.02	<1	130	3	0.02	<2	<1	5
JN12013-002		10	<1	0.03	<10	0.04	674	31	0.03	<1	80	<2	0.01	<2	<1	10
JN12013-003		<10	<1	0.01	<10	0.06	961	62	0.02	<1	120	2	0.03	<2	<1	12
JN12013-004		<10	<1	0.01	<10	0.07	635	58	0.02	<1	140	2	0.02	2	<1	5
JN12013-005		<10	<1	0.03	<10	0.07	744	62	0.03	<1	140	2	0.09	<2	<1	6
JN12013-006		<10	<1	0.03	<10	0.04	785	91	0.03	<1	330	<2	0.11	2	<1	10
JN12013-007		<10	<1	0.03	<10	0.06	1120	26	0.04	<1	170	38	0.17	3	<1	12
JN12013-008		10	<1	0.03	<10	0.06	991	41	0.03	<1	260	3	0.05	2	<1	11
JN12013-009		10	<1	0.05	<10	0.45	11350	6	0.02	1	290	12	2.72	10	4	15
JN12013-010		10	1	0.09	20	0.45	7940	38	0.02	5	180	69	3.65	10	5	16
JN12013-011		10	<1	0.01	10	0.58	10750	79	0.02	2	120	4	0.86	12	7	13
JN12013-012		10	<1	0.01	<10	0.35	7020	60	0.02	1	90	4	0.69	5	3	10
JN12013-013		10	<1	0.13	10	0.44	3490	12	0.02	3	80	6	8.83	30	4	13
JN12013-014		10	<1	0.03	30	0.20	3460	85	0.05	<1	280	3	0.28	3	5	62
JN12013-015		10	<1	0.05	20	0.09	1460	16	0.07	1	250	<2	0.24	4	2	44
JN12013-016		10	<1	0.06	10	0.47	10450	59	0.03	<1	390	4	0.40	8	3	26
JN12013-017		10	<1	0.06	40	0.52	9700	71	0.02	10	470	5	1.19	8	9	23
JN12013-018		10	<1	0.01	10	0.63	13850	8	0.03	<1	460	6	0.06	10	3	30
JN12013-019		10	<1	0.03	<10	0.04	1190	11	0.04	<1	310	<2	0.03	3	1	10
JN12013-020		10	<1	0.03	10	0.03	876	23	0.04	<1	290	2	0.16	2	<1	12
JN12013-020S		10	<1	0.17	10	0.58	786	10	0.18	24	820	10	0.31	5	3	112
JN12013-020B		<10	<1	<0.01	<10	1.70	35	<1	0.02	<1	50	<2	0.05	2	<1	5140
JN12013-021		20	<1	0.14	10	0.09	1480	9	0.10	<1	320	2	1.48	4	1	12
JN12013-022		20	<1	0.27	20	0.27	800	99	0.05	2	280	22	3.90	11	2	10
JN12013-023		50	<1	0.27	10	0.45	2350	76	0.22	1	170	4	1.59	5	3	6
JN12013-024		10	<1	0.01	10	0.06	1170	18	0.03	<1	150	<2	0.03	<2	<1	9
JN12013-025		10	<1	<0.01	<10	0.03	955	75	0.02	<1	510	2	0.02	3	<1	8
JN12013-026		10	<1	0.02	10	0.04	1085	60	0.04	<1	670	3	0.02	<2	1	82
JN12013-027		10	<1	0.01	<10	0.01	729	6	0.02	<1	70	2	0.02	<2	<1	5
JN12013-028		10	<1	0.02	<10	0.02	797	13	0.05	2	110	5	0.01	<2	<1	8
JN12013-029		10	<1	0.01	<10	0.04	1705	2	0.02	<1	120	<2	0.01	<2	2	1
JN12013-030		10	<1	<0.01	<10	0.05	1580	1	0.02	<1	90	<2	0.01	<2	1	6
JN12013-030D		10	<1	<0.01	<10	0.05	1485	1	0.01	<1	100	<2	0.01	<2	1	5
JN12013-031		10	<1	<0.01	10	0.15	1190	1	0.02	2	190	<2	0.01	<2	2	27
JN12013-032		10	1	0.01	20	0.14	1405	5	0.04	3	70	<2	0.01	<2	3	81
JN12013-033		10	<1	0.02	<10	0.03	686	11	0.06	<1	60	<2	0.01	<2	<1	20
JN12013-034		10	<1	0.01	<10	0.07	507	45	0.05	<1	290	2	0.01	<2	<1	7
JN12013-035		10	<1	0.01	<10	0.03	627	19	0.04	<1	190	<2	0.01	<2	<1	7
JN12013-036		10	<1	0.01	<10	0.02	842	4	0.02	<1	280	<2	0.01	<2	<1	5
JN12013-037		10	<1	<0.01	<10	0.02	1360	6	0.02	<1	250	<2	0.04	<2	1	4

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12013- 001		<20	0.01	<10	<10	1	670	17	
JN12013- 002		<20	0.02	<10	<10	4	490	17	
JN12013- 003		<20	0.01	<10	<10	1	800	19	
JN12013- 004		<20	0.01	<10	<10	1	620	20	
JN12013- 005		<20	0.01	<10	<10	2	820	16	
JN12013- 006		<20	0.01	<10	<10	1	1490	17	2320
JN12013- 007		<20	0.01	<10	<10	1	420	18	
JN12013- 008		<20	0.02	<10	<10	3	590	20	
JN12013- 009		<20	0.01	<10	10	16	60	131	
JN12013- 010		<20	<0.01	10	10	24	150	111	
JN12013- 011		<20	0.01	<10	10	21	80	155	
JN12013- 012		<20	<0.01	<10	10	15	300	96	
JN12013- 013		<20	<0.01	<10	<10	15	500	109	
JN12013- 014		<20	0.02	<10	10	16	590	54	
JN12013- 015		<20	0.08	<10	<10	17	190	22	
JN12013- 016		<20	0.01	<10	10	20	110	116	
JN12013- 017		<20	<0.01	<10	20	56	90	169	
JN12013- 018		<20	0.01	<10	10	14	360	187	
JN12013- 019		<20	0.03	<10	<10	7	450	16	
JN12013- 020		<20	0.03	<10	<10	5	650	18	
JN12013- 020S		<20	0.11	<10	<10	59	10	61	
JN12013- 020B		<20	<0.01	<10	<10	1	<10	<2	
JN12013- 021		<20	0.04	<10	<10	8	990	34	
JN12013- 022		<20	0.03	<10	10	15	1490	38	2420
JN12013- 023		<20	0.06	<10	10	22	1460	71	1420
JN12013- 024		<20	0.03	<10	<10	5	540	19	
JN12013- 025		<20	0.02	<10	<10	3	720	18	
JN12013- 026		<20	0.07	<10	<10	13	500	27	
JN12013- 027		<20	0.02	<10	<10	4	330	14	
JN12013- 028		<20	0.03	<10	<10	2	410	22	
JN12013- 029		<20	0.07	<10	<10	16	110	17	
JN12013- 030		<20	0.04	<10	<10	11	130	24	
JN12013- 030D		<20	0.04	<10	<10	10	120	24	
JN12013- 031		<20	0.07	<10	<10	15	200	25	
JN12013- 032		<20	0.14	<10	10	26	50	18	
JN12013- 033		<20	0.05	<10	<10	4	230	20	
JN12013- 034		<20	0.03	<10	<10	4	430	13	
JN12013- 035		<20	0.02	<10	<10	1	840	17	
JN12013- 036		<20	0.02	<10	<10	3	290	18	
JN12013- 037		<20	0.02	<10	<10	6	210	15	

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44 - 12TH AVENUE SOUTH
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Finalized Date: 4- SEP- 2012
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CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12013-038		4.52	<0.005	<0.2	0.89	<2	<10	<10	<0.5	<2	7.7	<0.5	<1	9	<1	4.79
JN12013-039		4.24	0.025	<0.2	0.45	3	<10	<10	<0.5	7	5.40	<0.5	1	3	5	3.05
JN12013-040		4.52	0.041	<0.2	0.40	<2	<10	<10	2.6	32	4.42	<0.5	2	1	1	3.78
JN12013-040S		0.08	4.16	58.0	1.88	1055	<10	190	<0.5	2	1.11	<0.5	10	21	106	3.64
JN12013-040B		2.34	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1	0.08
JN12013-041		4.04	0.007	<0.2	0.66	<2	<10	<10	0.9	<2	3.73	<0.5	1	5	<1	2.30
JN12013-042		4.42	<0.005	<0.2	2.03	4	10	<10	1.1	4	10.4	<0.5	<1	15	<1	6.44
JN12013-043		2.76	<0.005	<0.2	3.86	<2	<10	<10	3.1	<2	4.93	<0.5	3	4	<1	1.75
JN12013-044		1.76	<0.005	<0.2	3.38	7	50	<10	2.8	6	9.3	<0.5	2	26	<1	2.69
JN12013-045		1.44	<0.005	<0.2	5.31	2	<10	<10	7.7	<2	5.03	<0.5	2	<1	3	1.38
JN12013-046		2.34	<0.005	0.3	2.73	6	20	10	5.5	11	5.91	0.5	5	8	251	8.32
JN12013-047		0.86	0.009	0.2	1.50	288	10	10	4.0	9	12.9	<0.5	4	15	225	8.41
JN12013-048		3.20	<0.005	<0.2	1.38	4	<10	<10	0.6	3	8.0	<0.5	<1	12	1	4.61
JN12013-049		4.36	<0.005	<0.2	2.82	3	120	<10	1.4	3	8.9	<0.5	1	16	5	3.11
JN12013-050		4.52	<0.005	<0.2	3.42	4	20	<10	2.6	2	6.55	<0.5	2	18	5	2.01
JN12013-051		2.56	0.006	0.2	4.23	3	10	20	6.7	11	6.24	<0.5	4	7	92	4.32
JN12013-052		2.60	<0.005	<0.2	3.73	<2	<10	10	3.8	2	4.33	<0.5	3	3	16	1.96
JN12013-053		3.34	<0.005	<0.2	2.95	2	<10	10	4.4	<2	3.03	<0.5	2	3	1	1.16
JN12013-054		2.86	0.019	0.2	2.68	<2	<10	<10	3.7	9	2.91	<0.5	2	2	11	1.26
JN12013-055		1.58	0.011	<0.2	2.74	3	10	<10	4.6	6	3.24	<0.5	4	3	32	2.05
JN12013-056		2.52	<0.005	<0.2	1.17	2	<10	10	1.3	4	1.05	<0.5	1	7	<1	0.95
JN12013-057		2.16	<0.005	<0.2	0.41	<2	<10	20	0.8	<2	0.40	<0.5	<1	8	<1	0.98
JN12013-058		1.84	<0.005	<0.2	0.41	2	<10	20	0.7	<2	0.33	<0.5	1	8	1	0.74
JN12013-059		2.28	<0.005	<0.2	0.28	2	<10	10	1.3	<2	0.53	<0.5	1	9	<1	0.70
JN12013-060		2.18	<0.005	<0.2	0.23	3	<10	10	1.3	4	0.59	<0.5	1	6	<1	0.65
JN12013-060D		<0.02	<0.005	<0.2	0.29	3	10	10	1.4	7	0.60	<0.5	1	6	1	0.82
JN12013-060S		0.08	0.976	0.5	1.79	1375	30	100	<0.5	26	3.84	<0.5	51	24	143	3.81
JN12013-060B		2.28	<0.005	<0.2	0.03	3	<10	10	<0.5	<2	>25.0	<0.5	1	<1	1	0.03
JN12013-061		3.28	<0.005	<0.2	0.27	3	<10	10	1.2	6	0.70	<0.5	<1	7	1	0.68
JN12013-062		2.42	<0.005	<0.2	0.31	2	<10	10	0.9	8	0.49	<0.5	1	5	1	0.42
JN12013-063		1.74	0.015	<0.2	0.48	20	30	10	1.0	12	0.08	<0.5	1	3	3	0.40
JN12013-064		2.70	<0.005	<0.2	0.47	5	10	10	0.9	5	0.09	<0.5	1	3	3	0.46
JN12013-065		2.70	<0.005	<0.2	0.43	2	<10	10	1.0	5	0.34	<0.5	1	4	1	0.53
JN12013-066		2.06	<0.005	<0.2	0.24	<2	<10	10	0.7	11	0.15	<0.5	<1	5	1	0.36
JN12013-067		2.86	0.005	<0.2	0.41	<2	<10	10	1.5	18	0.47	<0.5	<1	4	4	0.45
JN12013-068		1.90	0.008	<0.2	0.34	<2	<10	<10	2.0	26	0.59	<0.5	<1	4	4	0.35
JN12013-069		1.22	<0.005	<0.2	0.30	<2	<10	10	1.6	18	0.78	<0.5	1	5	8	0.76
JN12013-070		2.78	<0.005	<0.2	2.57	<2	10	10	11.2	<2	4.50	<0.5	3	17	1	4.64
JN12013-071		2.70	<0.005	<0.2	2.47	<2	10	10	7.0	20	5.03	<0.5	2	18	10	4.21
JN12013-072		2.60	0.010	<0.2	0.27	<2	<10	10	1.6	20	0.46	<0.5	<1	5	6	0.51

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12013-038		10	<1	0.01	<10	0.02	1250	3	0.02	<1	60	<2	0.01	<2	1	2
JN12013-039		10	<1	0.01	<10	0.02	1060	50	0.01	<1	190	<2	0.02	<2	<1	4
JN12013-040		10	<1	<0.01	<10	0.09	1945	21	0.02	<1	410	<2	0.01	<2	<1	6
JN12013-040S		<10	1	0.27	10	0.81	510	8	0.23	14	610	8	0.13	14	3	95
JN12013-040B		<10	1	<0.01	<10	1.66	37	<1	0.02	<1	60	<2	0.10	<2	<1	5240
JN12013-041		10	<1	<0.01	<10	0.04	1015	40	0.01	<1	140	<2	0.01	<2	<1	18
JN12013-042		10	1	<0.01	10	0.09	1415	10	0.02	<1	90	<2	0.01	<2	2	70
JN12013-043		20	<1	0.01	10	0.06	877	463	0.07	<1	280	<2	0.04	<2	1	253
JN12013-044		10	<1	0.01	30	0.29	1155	7	0.04	7	180	<2	0.03	4	3	51
JN12013-045		20	<1	0.04	<10	0.04	613	146	0.16	<1	460	<2	0.06	<2	<1	330
JN12013-046		10	<1	0.19	20	0.32	1765	38	0.05	4	430	11	3.78	2	3	97
JN12013-047		10	<1	0.18	30	0.54	2480	20	0.02	9	120	10	1.94	3	4	120
JN12013-048		10	<1	0.01	10	0.07	1520	6	0.02	<1	1300	<2	0.02	<2	2	11
JN12013-049		10	<1	0.02	20	0.14	1210	33	0.04	2	370	<2	0.04	<2	2	329
JN12013-050		10	<1	0.02	20	0.20	920	20	0.12	2	270	<2	0.04	<2	2	201
JN12013-051		10	<1	0.16	10	0.20	1615	74	0.17	2	400	9	1.33	<2	2	387
JN12013-052		10	<1	0.03	10	0.10	910	63	0.26	1	340	<2	0.17	<2	1	258
JN12013-053		10	<1	0.02	10	0.07	548	39	0.28	<1	320	<2	0.02	<2	<1	163
JN12013-054		10	<1	0.02	10	0.06	470	153	0.14	<1	500	<2	0.03	<2	1	178
JN12013-055		10	<1	0.03	<10	0.07	694	387	0.13	<1	350	<2	0.13	<2	1	182
JN12013-056		<10	<1	0.17	10	0.04	419	5	0.16	<1	190	6	0.01	<2	2	84
JN12013-057		<10	<1	0.21	10	0.04	349	1	0.08	<1	90	9	0.01	<2	2	12
JN12013-058		<10	<1	0.23	10	0.04	182	<1	0.09	<1	90	10	0.01	<2	2	11
JN12013-059		<10	<1	0.16	<10	0.04	109	<1	0.08	<1	100	8	0.01	<2	2	25
JN12013-060		<10	<1	0.13	10	0.04	94	<1	0.07	<1	120	9	0.01	<2	3	31
JN12013-060D		<10	<1	0.16	10	0.04	120	<1	0.08	1	140	12	0.01	<2	3	32
JN12013-060S		10	<1	0.19	10	0.61	846	9	0.19	25	830	10	0.32	3	3	116
JN12013-060B		<10	<1	<0.01	<10	1.88	22	<1	0.02	1	60	<2	0.07	<2	<1	5120
JN12013-061		<10	<1	0.14	10	0.04	101	<1	0.08	<1	110	7	0.01	<2	3	30
JN12013-062		<10	<1	0.11	10	0.03	72	<1	0.04	1	110	12	0.01	<2	2	22
JN12013-063		<10	<1	0.24	10	0.01	51	1	0.01	1	200	24	0.04	7	1	8
JN12013-064		<10	<1	0.17	10	0.02	130	<1	0.02	1	150	25	0.03	3	1	11
JN12013-065		<10	1	0.12	10	0.02	85	<1	0.04	<1	120	13	0.01	<2	2	10
JN12013-066		<10	1	0.10	<10	0.02	52	<1	0.05	1	110	7	<0.01	<2	2	5
JN12013-067		<10	<1	0.12	10	0.02	62	<1	0.05	<1	170	12	0.05	<2	1	7
JN12013-068		<10	<1	0.08	10	0.02	51	<1	0.05	<1	180	8	0.08	<2	1	7
JN12013-069		<10	<1	0.09	10	0.02	202	<1	0.07	<1	150	8	0.11	<2	2	14
JN12013-070		30	1	0.13	20	0.19	1450	51	0.14	1	270	<2	0.06	<2	3	174
JN12013-071		20	<1	0.10	20	0.19	1480	26	0.09	1	310	<2	0.05	<2	2	110
JN12013-072		<10	<1	0.09	10	0.02	107	1	0.05	<1	130	6	0.06	<2	2	7

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	W- XRF05 W ppm 10
JN12013- 038		<20	0.04	<10	<10	10	40	16	
JN12013- 039		<20	0.02	<10	<10	4	250	14	
JN12013- 040		<20	0.01	<10	<10	2	380	45	
JN12013- 040S		<20	0.15	<10	<10	93	<10	51	
JN12013- 040B		<20	<0.01	<10	10	<1	<10	<2	
JN12013- 041		<20	0.03	<10	<10	6	430	16	
JN12013- 042		<20	0.08	<10	10	18	60	14	
JN12013- 043		<20	0.06	<10	<10	6	1070	18	1180
JN12013- 044		<20	0.17	<10	10	28	60	22	
JN12013- 045		<20	0.06	<10	<10	3	1040	19	1180
JN12013- 046		<20	0.05	<10	<10	16	500	27	
JN12013- 047		<20	0.04	<10	10	19	180	43	
JN12013- 048		<20	0.07	<10	<10	15	80	23	
JN12013- 049		<20	0.11	<10	<10	19	50	29	
JN12013- 050		<20	0.12	<10	<10	20	170	20	
JN12013- 051		<20	0.08	<10	<10	14	280	23	
JN12013- 052		<20	0.06	<10	<10	7	670	18	
JN12013- 053		<20	0.07	<10	<10	4	740	25	
JN12013- 054		<20	0.06	<10	<10	4	1320	17	1310
JN12013- 055		<20	0.06	<10	<10	6	1620	22	1630
JN12013- 056		<20	0.03	<10	10	4	80	20	
JN12013- 057		<20	0.01	<10	10	2	10	17	
JN12013- 058		<20	0.01	<10	10	2	<10	9	
JN12013- 059		<20	<0.01	<10	10	1	<10	4	
JN12013- 060		<20	<0.01	<10	10	1	<10	5	
JN12013- 060D		<20	<0.01	<10	10	2	<10	7	
JN12013- 060S		<20	0.12	<10	<10	62	10	64	
JN12013- 060B		<20	<0.01	<10	20	<1	<10	<2	
JN12013- 061		<20	<0.01	<10	10	1	<10	4	
JN12013- 062		<20	<0.01	<10	10	1	<10	3	
JN12013- 063		<20	<0.01	<10	10	<1	<10	2	
JN12013- 064		<20	<0.01	<10	<10	<1	<10	15	
JN12013- 065		<20	<0.01	<10	10	<1	<10	3	
JN12013- 066		<20	<0.01	<10	10	1	<10	3	
JN12013- 067		<20	<0.01	<10	10	<1	<10	3	
JN12013- 068		<20	<0.01	<10	10	<1	10	2	
JN12013- 069		<20	<0.01	<10	10	1	40	9	
JN12013- 070		<20	0.08	<10	<10	18	1040	39	6880
JN12013- 071		<20	0.08	<10	<10	20	610	34	
JN12013- 072		<20	<0.01	<10	10	1	80	5	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12013-073		2.88	0.059	<0.2	0.32	<2	<10	10	1.4	40	0.42	<0.5	<1	7	<1	0.57
JN12013-074		3.04	0.017	<0.2	0.24	<2	<10	10	1.1	9	0.37	<0.5	<1	5	<1	0.39
JN12013-075		3.42	0.014	<0.2	0.31	<2	<10	10	1.2	6	0.47	<0.5	<1	6	1	0.53
JN12013-076		3.40	0.027	<0.2	0.25	<2	<10	10	1.2	10	0.27	<0.5	<1	5	3	0.51
JN12013-077		3.12	0.102	<0.2	0.56	3	<10	10	0.8	59	0.15	<0.5	1	3	7	0.64
JN12013-078		1.30	0.082	<0.2	0.26	<2	<10	10	0.7	60	0.16	<0.5	1	6	5	0.61
JN12013-079		0.66	5.01	0.9	0.25	3	<10	10	1.1	1800	0.25	<0.5	1	6	16	1.23
JN12013-080		1.74	0.006	<0.2	0.23	<2	<10	10	0.9	4	0.38	<0.5	<1	6	1	0.46
JN12013-080S		0.08	0.972	0.5	1.74	1390	20	100	<0.5	25	3.81	<0.5	50	25	136	3.91
JN12013-080B		2.08	<0.005	1.5	0.01	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	5	0.03
JN12013-081		1.46	0.028	<0.2	0.37	<2	<10	20	1.2	5	0.69	<0.5	2	5	5	1.38
JN12013-082		1.52	0.076	<0.2	0.57	3	<10	50	1.0	11	0.67	<0.5	2	6	3	1.32
JN12013-083		2.32	0.106	<0.2	0.27	<2	<10	10	1.0	17	0.56	<0.5	<1	7	1	0.71
JN12013-084		3.44	0.141	<0.2	0.20	<2	<10	10	0.8	18	0.42	<0.5	<1	8	<1	0.37
JN12013-085		2.78	0.147	<0.2	0.39	<2	<10	20	1.0	21	0.64	<0.5	1	8	1	1.11
JN12013-086		2.08	0.186	<0.2	0.57	2	<10	60	1.0	33	0.72	<0.5	2	7	2	1.48
JN12013-087		3.58	0.071	<0.2	0.89	<2	<10	120	0.5	13	0.61	<0.5	2	8	<1	1.81
JN12013-088		2.18	0.111	<0.2	0.86	<2	<10	120	0.6	59	0.60	<0.5	2	7	2	1.75
JN12013-089		3.68	0.088	0.6	0.84	<2	<10	90	0.7	124	0.77	0.6	2	8	3	1.79
JN12013-090		3.16	0.010	<0.2	0.74	<2	<10	70	0.6	4	0.92	<0.5	3	6	1	1.80
JN12013-090D		<0.02	0.008	<0.2	0.81	<2	<10	80	0.6	3	0.94	<0.5	3	7	3	1.94
JN12013-091		3.10	<0.005	<0.2	0.67	<2	<10	70	0.7	<2	1.13	<0.5	3	7	2	1.84
JN12013-092		1.38	0.013	<0.2	0.79	<2	<10	80	1.0	13	0.98	<0.5	3	7	6	2.01
JN12013-093		0.72	0.012	2.2	0.31	<2	80	20	1.4	127	2.54	4.3	2	3	21	1.27
JN12013-094		2.16	0.049	2.0	0.42	394	10	30	1.1	142	3.05	2.2	3	3	28	1.92
JN12013-095		0.84	0.055	2.3	0.27	1175	60	20	1.3	123	1.88	0.9	5	8	52	2.19
JN12013-096		1.70	<0.005	<0.2	0.49	2	<10	40	1.0	4	1.51	<0.5	2	6	20	1.81
JN12013-097		2.12	0.006	<0.2	0.81	<2	<10	110	0.5	2	0.68	<0.5	3	7	7	1.88
JN12013-098		1.92	1.855	<0.2	0.59	<2	<10	50	0.8	624	1.07	<0.5	2	7	9	1.57
JN12013-099		2.52	0.006	<0.2	0.80	<2	<10	90	0.6	4	0.75	<0.5	2	8	6	1.62
JN12013-100		2.32	0.029	<0.2	0.87	<2	<10	90	0.6	20	0.97	<0.5	3	9	9	1.96
JN12013-100S		0.08	3.88	54.4	1.87	1025	<10	190	<0.5	2	1.08	<0.5	9	20	103	3.54
JN12013-100B		2.04	<0.005	<0.2	0.02	<2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	<1	0.03
JN12013-101		2.26	0.005	<0.2	1.00	<2	<10	130	<0.5	3	0.67	<0.5	3	8	6	2.04
JN12013-102		2.18	0.008	<0.2	0.90	<2	<10	100	<0.5	5	0.70	<0.5	2	8	4	1.82
JN12013-103		2.30	0.029	<0.2	1.10	2	<10	170	<0.5	18	0.41	<0.5	3	9	2	1.99
JN12013-104		1.90	0.157	<0.2	0.72	<2	<10	90	0.6	18	0.63	<0.5	2	8	1	1.54
JN12013-105		2.44	0.027	<0.2	0.93	<2	<10	140	<0.5	2	0.43	<0.5	2	10	<1	1.90
JN12013-106		2.12	0.071	<0.2	0.94	<2	<10	150	<0.5	14	0.41	<0.5	3	10	1	1.80
JN12013-107		2.22	0.011	<0.2	0.97	<2	<10	140	<0.5	2	0.57	<0.5	3	8	1	2.01

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12013-073		<10	<1	0.13	10	0.02	94	1	0.06	<1	110	8	0.02	<2	2	6
JN12013-074		<10	<1	0.10	10	0.02	63	1	0.05	<1	120	7	0.01	<2	2	6
JN12013-075		<10	<1	0.13	10	0.03	83	5	0.05	<1	110	9	0.01	<2	2	8
JN12013-076		<10	<1	0.13	10	0.04	87	1	0.06	<1	100	8	0.01	<2	3	7
JN12013-077		<10	<1	0.12	10	0.03	123	3	0.01	<1	110	14	0.12	<2	2	10
JN12013-078		<10	<1	0.11	10	0.02	205	2	0.04	<1	110	9	0.06	<2	2	6
JN12013-079		<10	1	0.12	10	0.03	346	2	0.05	<1	90	34	0.21	20	2	6
JN12013-080		<10	<1	0.14	10	0.03	77	<1	0.05	<1	130	6	0.03	<2	2	8
JN12013-080S		<10	<1	0.18	10	0.59	839	10	0.18	24	830	9	0.31	4	3	110
JN12013-080B		<10	1	<0.01	<10	1.79	23	<1	0.01	<1	60	2	0.05	<2	<1	4930
JN12013-081		<10	<1	0.15	20	0.10	244	2	0.04	<1	320	5	0.09	<2	3	28
JN12013-082		<10	<1	0.22	20	0.17	223	3	0.06	<1	400	3	0.04	<2	4	17
JN12013-083		<10	<1	0.14	10	0.03	108	1	0.04	<1	170	8	0.02	<2	2	11
JN12013-084		<10	<1	0.13	10	0.02	54	1	0.04	<1	110	6	0.01	<2	1	9
JN12013-085		<10	<1	0.21	10	0.11	178	1	0.05	<1	210	7	0.02	<2	3	18
JN12013-086		<10	<1	0.24	20	0.22	218	1	0.06	<1	390	4	0.02	<2	4	24
JN12013-087		<10	<1	0.46	30	0.32	283	2	0.11	<1	400	3	0.01	<2	5	27
JN12013-088		<10	<1	0.47	20	0.31	289	17	0.09	<1	390	3	0.05	<2	5	22
JN12013-089		<10	<1	0.37	20	0.29	331	33	0.09	<1	420	41	0.10	<2	4	27
JN12013-090		<10	<1	0.29	20	0.30	304	15	0.06	<1	400	5	0.03	<2	4	35
JN12013-090D		<10	<1	0.32	20	0.31	324	12	0.08	1	420	5	0.03	<2	4	37
JN12013-091		<10	<1	0.28	30	0.31	314	1	0.06	1	420	7	0.02	<2	4	43
JN12013-092		<10	<1	0.33	30	0.30	313	<1	0.07	1	450	4	0.10	<2	4	40
JN12013-093		<10	<1	0.12	10	0.06	505	36	0.01	1	340	119	0.26	4	1	67
JN12013-094		<10	<1	0.24	10	0.07	1165	50	0.01	<1	350	109	0.84	5	1	98
JN12013-095		<10	<1	0.14	10	0.07	580	8	0.01	<1	330	117	1.08	7	1	72
JN12013-096		<10	<1	0.25	20	0.18	416	10	0.04	<1	390	6	0.40	<2	2	58
JN12013-097		<10	<1	0.41	20	0.34	294	1	0.06	<1	420	2	0.14	<2	5	24
JN12013-098		<10	<1	0.29	20	0.21	262	20	0.06	<1	390	27	0.21	9	3	35
JN12013-099		<10	<1	0.39	20	0.30	227	20	0.09	1	450	2	0.13	<2	4	23
JN12013-100		<10	<1	0.39	20	0.29	300	4	0.07	<1	430	3	0.26	<2	4	32
JN12013-100S		<10	<1	0.26	10	0.79	495	8	0.22	12	600	8	0.13	15	3	94
JN12013-100B		<10	1	<0.01	<10	1.87	20	<1	0.01	<1	50	<2	0.06	<2	<1	5550
JN12013-101		10	<1	0.47	20	0.36	290	1	0.10	<1	420	2	0.11	<2	5	32
JN12013-102		<10	<1	0.38	20	0.34	258	37	0.08	1	410	<2	0.09	<2	4	28
JN12013-103		10	<1	0.61	20	0.38	321	1	0.13	<1	410	2	0.04	<2	6	21
JN12013-104		<10	<1	0.34	20	0.27	243	21	0.07	<1	410	2	0.03	<2	4	20
JN12013-105		<10	<1	0.49	20	0.32	305	14	0.10	1	400	3	0.01	<2	5	21
JN12013-106		10	<1	0.52	20	0.34	271	14	0.10	<1	380	2	0.01	<2	5	19
JN12013-107		10	<1	0.47	20	0.35	318	24	0.10	<1	420	2	0.03	<2	5	23

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12013- 073		<20	<0.01	<10	10	1	<10	4	
JN12013- 074		<20	<0.01	<10	10	1	<10	4	
JN12013- 075		<20	<0.01	<10	10	1	<10	3	
JN12013- 076		<20	<0.01	<10	10	2	<10	5	
JN12013- 077		<20	<0.01	<10	10	1	<10	4	
JN12013- 078		<20	<0.01	<10	10	1	<10	18	
JN12013- 079		<20	<0.01	<10	10	1	130	14	
JN12013- 080		<20	<0.01	<10	10	2	10	3	
JN12013- 080S		<20	0.12	<10	<10	62	10	66	
JN12013- 080B		<20	<0.01	<10	<10	<1	<10	<2	
JN12013- 081		<20	<0.01	<10	10	6	40	13	
JN12013- 082		<20	0.04	<10	<10	14	160	16	
JN12013- 083		<20	<0.01	<10	10	2	50	5	
JN12013- 084		<20	<0.01	<10	10	1	50	3	
JN12013- 085		<20	0.01	<10	10	6	60	12	
JN12013- 086		<20	0.04	<10	<10	15	20	19	
JN12013- 087		<20	0.09	<10	<10	22	50	19	
JN12013- 088		<20	0.09	<10	<10	21	80	21	
JN12013- 089		<20	0.07	<10	<10	20	110	98	
JN12013- 090		<20	0.04	<10	<10	17	30	23	
JN12013- 090D		<20	0.05	<10	<10	18	40	24	
JN12013- 091		<20	0.04	<10	<10	14	20	21	
JN12013- 092		<20	0.05	<10	<10	17	20	22	
JN12013- 093		<20	<0.01	<10	<10	2	40	493	
JN12013- 094		<20	<0.01	<10	<10	2	420	235	
JN12013- 095		<20	<0.01	<10	<10	2	80	59	
JN12013- 096		<20	0.01	<10	<10	7	60	13	
JN12013- 097		<20	0.08	<10	<10	20	10	20	
JN12013- 098		<20	0.03	<10	<10	10	130	11	
JN12013- 099		<20	0.08	<10	<10	20	220	14	
JN12013- 100		<20	0.06	<10	<10	17	20	16	
JN12013- 100S		<20	0.15	<10	<10	91	<10	51	
JN12013- 100B		<20	<0.01	<10	<10	1	<10	<2	
JN12013- 101		<20	0.10	<10	<10	24	10	19	
JN12013- 102		<20	0.08	<10	<10	21	20	17	
JN12013- 103		<20	0.14	<10	<10	26	30	21	
JN12013- 104		<20	0.07	<10	<10	18	40	17	
JN12013- 105		<20	0.11	<10	<10	23	10	20	
JN12013- 106		<20	0.12	<10	<10	24	10	17	
JN12013- 107		<20	0.10	<10	<10	24	30	22	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description / Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
JN12013-108	2.42	<0.005	<0.2	0.87	<2	<10	140	<0.5	2	0.48	<0.5	3	7	1	1.84
JN12013-109	2.26	0.005	0.4	0.65	22	<10	60	0.7	6	0.95	0.6	2	8	8	1.91
JN12013-110	3.48	0.009	<0.2	0.83	<2	<10	100	0.5	9	0.76	<0.5	2	7	5	1.76
JN12013-111	3.26	0.008	<0.2	0.82	<2	<10	90	0.6	5	0.90	<0.5	3	7	5	2.02
JN12013-112	1.76	0.046	0.3	0.43	3	<10	70	0.8	44	0.93	<0.5	3	5	11	1.88
JN12013-113	0.90	0.612	0.6	0.32	2	<10	30	0.7	555	0.96	<0.5	2	6	8	1.41
JN12013-114	3.12	0.012	0.5	0.43	<2	<10	30	0.7	15	1.67	<0.5	3	6	7	1.93
JN12013-115	2.76	0.042	0.6	0.51	2	<10	50	0.6	108	0.85	<0.5	3	6	3	1.64
JN12013-116	2.06	0.008	<0.2	0.49	<2	<10	40	0.7	9	0.97	<0.5	2	6	4	1.69
JN12013-117	3.10	0.258	<0.2	0.78	<2	<10	100	0.7	10	0.73	<0.5	3	7	4	1.77
JN12013-118	3.52	0.012	<0.2	0.79	<2	<10	90	0.6	4	1.02	<0.5	3	7	4	1.93
JN12013-119	2.30	0.008	<0.2	0.44	<2	<10	40	0.6	2	1.31	<0.5	3	6	3	1.79
JN12013-120	2.46	0.063	<0.2	0.62	<2	<10	50	0.6	13	1.10	<0.5	3	6	3	1.87
JN12013-120D	<0.02	0.029	<0.2	0.50	<2	<10	40	0.5	8	1.06	<0.5	3	6	2	1.79
JN12013-120S	0.08	4.06	55.8	1.82	988	<10	180	<0.5	2	1.05	<0.5	9	19	98	3.43
JN12013-120B	1.82	<0.005	<0.2	0.06	<2	<10	10	<0.5	3	>25.0	<0.5	<1	<1	<1	0.08
JN12013-121	2.36	0.013	<0.2	0.81	<2	<10	90	<0.5	6	0.87	<0.5	3	6	<1	2.01
JN12013-122	2.34	0.022	<0.2	0.86	<2	<10	110	<0.5	7	0.71	<0.5	3	8	<1	2.01
JN12013-123	3.10	0.007	<0.2	0.92	<2	<10	100	<0.5	5	0.80	<0.5	3	8	<1	2.08
JN12013-124	2.84	0.006	0.2	0.75	<2	<10	80	<0.5	2	0.87	<0.5	3	7	<1	1.88
JN12013-125	0.64	0.045	<0.2	0.63	<2	10	50	0.7	7	1.29	<0.5	3	8	7	1.87
JN12013-126	1.40	<0.005	0.2	0.54	<2	<10	60	0.6	2	0.72	<0.5	4	6	4	1.68
JN12013-127	3.28	<0.005	<0.2	0.93	<2	<10	120	<0.5	2	0.82	<0.5	3	8	1	2.05
JN12013-128	3.64	0.015	<0.2	0.83	<2	<10	120	<0.5	2	0.61	<0.5	3	8	<1	1.84
JN12013-129	2.88	<0.005	<0.2	1.04	<2	<10	150	<0.5	<2	0.57	<0.5	3	8	<1	1.96
JN12013-130	2.96	0.005	<0.2	0.93	<2	<10	120	<0.5	<2	0.54	<0.5	2	8	1	1.89
JN12013-131	3.28	0.063	<0.2	1.14	<2	<10	170	<0.5	5	0.41	<0.5	3	8	<1	1.98
JN12013-132	3.52	<0.005	<0.2	0.99	<2	<10	150	<0.5	2	0.45	<0.5	3	8	<1	1.88
JN12013-133	1.66	0.079	<0.2	1.00	<2	<10	140	<0.5	54	0.61	<0.5	3	9	2	1.89
JN12013-134	2.68	<0.005	<0.2	1.10	<2	<10	190	<0.5	<2	0.38	<0.5	3	8	<1	2.08
JN12013-135	1.50	0.010	0.9	0.59	7	10	50	0.5	22	1.55	<0.5	2	5	36	2.21

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44 - 12TH AVENUE SOUTH
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CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12013-108		<10	<1	0.47	30	0.32	310	9	0.09	<1	410	3	0.02	<2	5	22
JN12013-109		<10	<1	0.29	20	0.24	380	1	0.06	<1	410	35	0.26	2	3	35
JN12013-110		<10	<1	0.40	20	0.30	295	3	0.07	<1	410	6	0.14	<2	4	29
JN12013-111		<10	<1	0.34	20	0.32	309	1	0.08	<1	410	4	0.15	<2	4	40
JN12013-112		<10	<1	0.20	20	0.20	371	2	0.03	<1	410	23	0.39	<2	3	30
JN12013-113		<10	<1	0.17	20	0.15	250	12	0.03	<1	350	37	0.25	8	2	44
JN12013-114		<10	<1	0.26	20	0.22	530	3	0.04	1	410	39	0.26	<2	2	80
JN12013-115		<10	<1	0.20	20	0.25	265	12	0.04	<1	360	43	0.07	<2	3	45
JN12013-116		<10	<1	0.23	20	0.22	289	<1	0.04	<1	410	9	0.13	<2	3	47
JN12013-117		<10	<1	0.36	20	0.32	269	2	0.06	<1	400	3	0.09	<2	4	26
JN12013-118		<10	<1	0.36	20	0.32	307	5	0.07	<1	410	8	0.12	<2	4	51
JN12013-119		<10	<1	0.20	20	0.28	340	5	0.04	<1	400	11	0.12	2	3	77
JN12013-120		<10	<1	0.26	20	0.29	294	25	0.06	1	400	7	0.11	<2	3	59
JN12013-120D		<10	<1	0.20	20	0.28	283	27	0.04	<1	410	7	0.10	<2	3	57
JN12013-120S		10	<1	0.25	10	0.77	479	8	0.21	12	580	7	0.13	14	3	91
JN12013-120B		<10	1	0.01	<10	1.80	23	<1	0.01	<1	60	<2	0.11	<2	<1	5270
JN12013-121		<10	<1	0.32	20	0.37	300	1	0.07	<1	430	3	0.06	<2	4	46
JN12013-122		<10	<1	0.37	20	0.37	306	<1	0.07	<1	420	4	0.03	<2	4	32
JN12013-123		<10	<1	0.38	20	0.35	304	<1	0.09	<1	410	5	0.03	<2	4	40
JN12013-124		<10	<1	0.30	20	0.33	280	<1	0.06	<1	400	3	0.03	<2	4	39
JN12013-125		<10	<1	0.29	20	0.29	267	5	0.06	<1	400	6	0.08	<2	3	65
JN12013-126		<10	<1	0.25	20	0.23	275	<1	0.05	<1	460	3	0.15	<2	4	33
JN12013-127		<10	<1	0.43	20	0.35	318	<1	0.10	<1	430	6	0.11	<2	4	40
JN12013-128		<10	<1	0.44	20	0.34	280	14	0.07	<1	420	2	0.03	<2	5	26
JN12013-129		10	<1	0.56	20	0.36	300	<1	0.11	<1	410	3	0.02	<2	5	25
JN12013-130		10	<1	0.44	20	0.38	238	4	0.08	<1	420	2	0.07	<2	5	19
JN12013-131		10	<1	0.63	20	0.39	262	<1	0.14	<1	430	<2	0.02	<2	6	23
JN12013-132		10	<1	0.57	20	0.36	308	<1	0.10	<1	420	2	0.05	<2	5	19
JN12013-133		<10	<1	0.53	20	0.35	260	11	0.11	<1	410	7	0.11	<2	5	22
JN12013-134		10	<1	0.68	20	0.40	323	<1	0.11	<1	440	<2	0.03	<2	6	20
JN12013-135		<10	<1	0.35	20	0.15	616	<1	0.03	<1	390	25	1.06	<2	2	64

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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 4- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12191714

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12013-108		<20	0.11	<10	<10	23	<10	23	
JN12013-109		<20	0.03	<10	<10	12	30	93	
JN12013-110		<20	0.07	<10	<10	18	250	18	
JN12013-111		<20	0.05	<10	<10	18	<10	16	
JN12013-112		<20	<0.01	<10	<10	6	<10	21	
JN12013-113		<20	<0.01	<10	<10	5	40	14	
JN12013-114		<20	<0.01	<10	<10	4	30	54	
JN12013-115		<20	0.03	<10	<10	13	10	17	
JN12013-116		<20	0.01	<10	<10	7	20	17	
JN12013-117		<20	0.07	<10	<10	19	120	19	
JN12013-118		<20	0.05	<10	<10	16	20	19	
JN12013-119		<20	0.01	<10	<10	8	<10	20	
JN12013-120		<20	0.02	<10	<10	12	<10	19	
JN12013-120D		<20	0.02	<10	<10	11	<10	19	
JN12013-120S		<20	0.15	<10	<10	87	<10	49	
JN12013-120B		<20	<0.01	<10	<10	1	<10	<2	
JN12013-121		<20	0.06	<10	<10	21	<10	18	
JN12013-122		<20	0.08	<10	10	22	<10	20	
JN12013-123		<20	0.07	<10	<10	20	<10	20	
JN12013-124		<20	0.06	<10	10	19	<10	18	
JN12013-125		<20	0.01	<10	10	11	40	13	
JN12013-126		<20	0.03	<10	<10	14	10	11	
JN12013-127		<20	0.08	<10	<10	21	<10	17	
JN12013-128		<20	0.10	<10	<10	22	<10	18	
JN12013-129		<20	0.12	<10	<10	24	10	19	
JN12013-130		<20	0.10	<10	<10	25	10	11	
JN12013-131		<20	0.14	<10	<10	26	10	13	
JN12013-132		<20	0.13	<10	<10	24	10	19	
JN12013-133		<20	0.10	<10	10	22	<10	14	
JN12013-134		<20	0.15	<10	<10	28	<10	23	
JN12013-135		<20	0.01	<10	10	6	<10	47	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 19- SEP- 2012
Account: TELOEX

CERTIFICATE VA12210487

Project:

P.O. No.:

This report is for 2 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 12- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

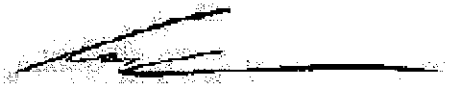
ALS CODE	DESCRIPTION
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 22Y	Split Sample - Boyd Rotary Splitter
SCR- 21	Screen to - 100 to 106 um
FND- 03	Find Reject for Addn Analysis
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 to 106 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 19- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS VA12210487

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
JN12013- 022		5.05	3.03	5.12	0.116	38.31	1108.5	5.14	5.10
JN12013- 079		0.93	4.68	0.80	0.016	3.42	95.3	0.83	0.76

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE WH12194523

Project: JN12- 011

P.O. No.: JN12- 011

This report is for 244 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
BAG- 01	Bulk Master for Storage
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%< 75um
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%< 75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
W- XRF05	Trace Level W XRF Analysis	XRF
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12014- 001		3.98	0.016	<0.2	0.34	2	10	<10	0.9	4	1.82	<0.5	2	1	1	2.10
JN12014- 002		3.74	0.100	<0.2	0.34	<2	<10	<10	0.7	15	3.24	<0.5	<1	2	<1	2.86
JN12014- 003		4.26	0.098	<0.2	0.63	2	<10	<10	0.8	16	5.40	<0.5	<1	4	2	4.02
JN12014- 004		3.08	0.191	<0.2	0.31	<2	<10	<10	1.5	48	2.16	<0.5	2	2	5	2.07
JN12014- 005		1.36	0.348	0.2	0.22	<2	10	<10	3.6	57	4.55	<0.5	6	1	97	6.20
JN12014- 006		1.06	0.023	<0.2	0.28	22	<10	10	4.0	6	2.40	<0.5	4	3	6	7.51
JN12014- 007		3.34	<0.005	<0.2	0.32	<2	10	<10	1.8	3	2.71	<0.5	2	2	3	2.89
JN12014- 008		4.66	0.010	<0.2	0.28	<2	<10	<10	1.0	<2	0.92	<0.5	1	1	1	0.96
JN12014- 009		4.22	0.218	<0.2	0.63	<2	<10	<10	0.5	23	2.42	<0.5	1	4	<1	1.96
JN12014- 010		2.78	0.049	<0.2	0.82	<2	<10	<10	0.9	11	1.61	<0.5	1	4	1	1.33
JN12014- 011		3.56	0.014	<0.2	0.64	<2	<10	<10	1.9	2	1.81	<0.5	1	3	1	1.42
JN12014- 012		4.00	0.013	<0.2	4.38	2	20	10	2.6	3	4.26	<0.5	2	11	4	1.45
JN12014- 013		4.52	0.010	<0.2	1.05	<2	10	<10	1.7	2	1.99	<0.5	1	5	1	1.13
JN12014- 014		2.86	0.080	<0.2	3.35	<2	10	<10	2.3	19	4.36	<0.5	1	15	2	1.74
JN12014- 015		2.92	0.007	<0.2	1.91	<2	10	<10	1.9	2	3.15	<0.5	1	11	1	1.87
JN12014- 016		3.38	0.073	<0.2	1.23	<2	<10	<10	1.4	14	1.56	<0.5	1	4	<1	1.14
JN12014- 017		4.18	0.278	<0.2	0.28	<2	<10	<10	1.5	49	1.06	<0.5	1	2	1	1.08
JN12014- 018		3.22	0.772	0.2	0.69	<2	<10	<10	2.7	117	1.70	<0.5	4	4	96	2.91
JN12014- 019		2.44	<0.005	<0.2	3.95	3	20	<10	3.0	3	5.63	<0.5	1	22	2	2.07
JN12014- 020		4.50	0.013	<0.2	1.25	<2	10	<10	1.8	5	2.96	<0.5	2	6	69	2.72
JN12014- 020S		0.08	4.01	56.6	1.93	1010	<10	190	<0.5	3	1.13	<0.5	10	20	105	3.63
JN12014- 020B		2.16	0.009	<0.2	0.02	<2	<10	10	<0.5	4	>25.0	<0.5	<1	<1	3	0.05
JN12014- 021		2.94	0.021	1.8	0.78	2	<10	10	3.5	19	5.15	0.6	12	4	428	8.81
JN12014- 022		1.94	0.021	<0.2	0.60	<2	<10	<10	1.6	3	1.22	<0.5	1	2	5	1.04
JN12014- 023		3.26	0.030	<0.2	0.46	<2	<10	<10	1.7	5	1.50	<0.5	1	1	6	0.93
JN12014- 024		4.54	0.040	<0.2	0.37	<2	<10	<10	1.4	7	1.08	<0.5	2	2	41	1.55
JN12014- 025		4.26	0.073	<0.2	0.81	<2	10	<10	1.3	14	1.54	<0.5	4	4	175	2.29
JN12014- 026		4.40	0.027	<0.2	0.43	<2	<10	<10	1.2	4	1.14	<0.5	1	2	15	1.11
JN12014- 027		4.42	<0.005	<0.2	0.27	<2	<10	<10	0.9	<2	0.75	<0.5	1	1	2	0.68
JN12014- 028		4.30	0.011	<0.2	0.39	2	<10	<10	1.1	2	1.67	<0.5	1	2	1	1.62
JN12014- 029		3.18	0.040	<0.2	0.93	<2	<10	<10	1.4	9	2.40	<0.5	1	5	1	2.24
JN12014- 030		3.78	0.191	<0.2	1.13	<2	<10	10	3.2	48	3.40	<0.5	2	7	21	2.63
JN12014- 030D		<0.02	0.209	<0.2	1.15	<2	<10	10	3.1	61	3.43	<0.5	2	7	23	2.55
JN12014- 031		2.72	2.59	1.3	0.58	7	<10	20	7.0	930	3.55	<0.5	18	13	166	19.7
JN12014- 032		0.74	9.93	0.7	0.39	>10000	<10	20	2.6	21	0.97	0.5	10	11	17	22.8
JN12014- 033		1.84	0.097	0.4	0.65	34	<10	30	4.3	36	1.89	<0.5	16	12	5	28.6
JN12014- 034		1.10	0.019	0.3	0.31	2	<10	30	6.5	13	4.18	<0.5	3	5	9	24.2
JN12014- 035		3.04	0.046	<0.2	0.19	78	<10	10	2.3	5	1.93	<0.5	4	<1	88	2.79
JN12014- 036		2.88	0.015	<0.2	0.26	3	<10	<10	1.8	8	1.86	<0.5	1	1	7	2.26
JN12014- 037		4.08	<0.005	<0.2	0.43	<2	<10	<10	<0.5	3	3.13	<0.5	<1	3	1	2.65

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12014- 001		10	<1	0.01	<10	0.04	746	327	0.01	<1	200	<2	0.04	<2	<1	4
JN12014- 002		10	<1	0.01	<10	0.04	726	29	0.01	<1	170	<2	0.01	<2	<1	3
JN12014- 003		10	<1	0.01	<10	0.04	1140	30	0.01	<1	90	<2	0.01	<2	1	4
JN12014- 004		<10	<1	0.01	<10	0.06	944	235	0.01	<1	160	<2	0.07	<2	<1	6
JN12014- 005		<10	<1	0.02	<10	0.09	2710	42	0.01	<1	130	5	1.47	<2	<1	11
JN12014- 006		10	<1	0.02	<10	0.13	3720	41	0.02	<1	160	<2	0.45	<2	<1	9
JN12014- 007		10	<1	0.01	<10	0.04	1365	33	0.01	<1	130	3	0.02	<2	<1	9
JN12014- 008		<10	<1	0.01	<10	0.03	397	73	0.01	<1	320	<2	0.01	<2	<1	5
JN12014- 009		10	<1	0.01	<10	0.02	678	108	0.02	<1	270	2	0.01	<2	<1	5
JN12014- 010		10	<1	0.02	10	0.02	430	72	0.04	1	180	<2	0.01	<2	<1	41
JN12014- 011		10	<1	0.01	10	0.03	618	86	0.03	<1	180	<2	0.01	<2	<1	12
JN12014- 012		20	<1	0.03	20	0.08	462	30	0.25	4	160	<2	0.03	<2	1	428
JN12014- 013		10	<1	0.01	10	0.04	444	12	0.05	2	130	<2	0.02	<2	<1	40
JN12014- 014		10	<1	0.03	20	0.09	641	10	0.10	4	150	<2	<0.01	<2	2	205
JN12014- 015		10	<1	0.05	10	0.05	639	15	0.10	2	110	<2	0.01	<2	1	94
JN12014- 016		10	<1	0.03	<10	0.02	372	9	0.07	1	80	<2	0.01	<2	<1	59
JN12014- 017		<10	<1	0.02	<10	0.02	439	13	0.04	1	360	<2	0.01	<2	<1	7
JN12014- 018		10	<1	0.06	<10	0.06	669	31	0.06	1	390	<2	0.44	<2	<1	12
JN12014- 019		10	<1	0.02	30	0.18	716	10	0.07	8	230	<2	0.02	<2	2	441
JN12014- 020		10	<1	0.02	10	0.05	900	7	0.05	1	240	<2	0.35	<2	1	27
JN12014- 020S		10	<1	0.27	10	0.80	506	9	0.22	14	590	7	0.14	14	3	94
JN12014- 020B		<10	<1	<0.01	<10	1.65	26	<1	0.01	<1	50	<2	0.07	<2	<1	5290
JN12014- 021		10	<1	0.04	10	0.09	3030	15	0.02	<1	260	140	3.62	<2	1	102
JN12014- 022		10	<1	0.01	<10	0.01	437	18	0.05	<1	240	<2	0.03	<2	<1	9
JN12014- 023		<10	<1	0.01	<10	0.02	352	21	0.03	<1	270	2	0.06	<2	<1	60
JN12014- 024		<10	<1	0.01	<10	0.02	525	10	0.03	<1	270	<2	0.31	<2	<1	18
JN12014- 025		10	<1	0.02	10	0.02	559	13	0.04	1	190	<2	0.54	<2	<1	58
JN12014- 026		<10	<1	0.01	<10	0.02	478	25	0.03	<1	190	<2	0.06	<2	<1	37
JN12014- 027		<10	<1	0.01	<10	0.01	307	24	0.02	<1	190	<2	0.02	<2	<1	17
JN12014- 028		10	<1	0.02	<10	0.02	662	14	0.03	<1	240	<2	0.03	<2	<1	11
JN12014- 029		10	<1	0.04	10	0.03	863	8	0.05	<1	70	<2	0.02	<2	<1	15
JN12014- 030		10	<1	0.06	10	0.06	1115	11	0.05	1	80	<2	0.12	<2	1	46
JN12014- 030D		10	<1	0.05	10	0.06	1100	9	0.04	1	80	<2	0.12	<2	1	49
JN12014- 031		10	<1	0.02	10	0.42	7810	8	0.01	2	230	2	1.24	4	3	17
JN12014- 032		10	<1	0.08	10	0.42	7530	12	0.01	<1	60	6	6.50	177	4	12
JN12014- 033		10	<1	0.01	10	0.60	12550	45	0.02	<1	130	3	0.81	<2	2	18
JN12014- 034		10	<1	0.05	<10	0.37	12200	9	0.01	<1	310	2	0.02	<2	1	22
JN12014- 035		<10	<1	0.11	<10	0.08	1280	23	0.01	<1	330	<2	0.36	<2	<1	6
JN12014- 036		<10	<1	0.08	<10	0.12	1285	31	0.01	<1	210	<2	0.04	<2	<1	7
JN12014- 037		10	<1	0.02	<10	0.05	1140	16	0.01	<1	120	<2	0.01	<2	<1	3

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12014- 001		<20	0.01	<10	<10	2	1000	21	1110
JN12014- 002		<20	0.01	<10	<10	2	340	17	
JN12014- 003		<20	0.02	<10	<10	5	240	17	
JN12014- 004		<20	0.01	<10	<10	2	750	25	
JN12014- 005		<20	0.01	<10	<10	1	400	40	
JN12014- 006		<20	0.01	<10	<10	3	250	72	
JN12014- 007		<20	0.01	<10	<10	2	540	33	
JN12014- 008		<20	0.01	<10	<10	1	540	14	
JN12014- 009		<20	0.02	<10	<10	4	450	14	
JN12014- 010		<20	0.03	<10	<10	4	650	18	
JN12014- 011		<20	0.03	<10	<10	3	820	23	
JN12014- 012		<20	0.09	<10	<10	13	60	45	
JN12014- 013		<20	0.04	<10	<10	5	210	41	
JN12014- 014		<20	0.10	<10	<10	15	40	46	
JN12014- 015		<20	0.09	<10	<10	11	90	26	
JN12014- 016		<20	0.04	<10	<10	4	120	14	
JN12014- 017		<20	0.01	<10	<10	2	600	14	
JN12014- 018		<20	0.03	<10	<10	4	970	20	
JN12014- 019		<20	0.11	<10	<10	23	40	47	
JN12014- 020		<20	0.03	<10	<10	7	160	29	
JN12014- 020S		<20	0.15	<10	<10	90	<10	53	
JN12014- 020B		<20	<0.01	<10	10	<1	<10	<2	
JN12014- 021		<20	0.01	<10	<10	5	180	87	
JN12014- 022		<20	0.02	<10	<10	2	100	13	
JN12014- 023		<20	0.01	<10	<10	1	320	13	
JN12014- 024		<20	0.02	<10	<10	2	290	13	
JN12014- 025		<20	0.03	<10	<10	4	220	21	
JN12014- 026		<20	0.02	<10	<10	2	280	14	
JN12014- 027		<20	0.01	<10	<10	1	260	13	
JN12014- 028		<20	0.02	<10	<10	2	190	17	
JN12014- 029		<20	0.03	<10	<10	6	140	20	
JN12014- 030		<20	0.05	<10	<10	8	250	23	
JN12014- 030D		<20	0.05	<10	<10	7	270	22	
JN12014- 031		<20	<0.01	<10	<10	21	670	191	
JN12014- 032		<20	<0.01	<10	<10	18	50	154	
JN12014- 033		<20	<0.01	<10	<10	17	90	160	
JN12014- 034		<20	<0.01	<10	<10	7	190	207	
JN12014- 035		<20	0.01	<10	<10	1	500	22	
JN12014- 036		<20	0.01	<10	<10	1	450	20	
JN12014- 037		<20	0.02	<10	<10	4	110	20	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12014- 038		2.52	0.018	<0.2	0.89	<2	<10	10	1.3	18	9.7	<0.5	<1	7	3	8.31
JN12014- 039		1.50	0.017	85.1	1.53	<2	<10	20	4.0	7	2.88	<0.5	2	18	441	16.5
JN12014- 040		3.52	<0.005	<0.2	1.33	3	<10	<10	1.1	4	6.75	<0.5	1	10	4	4.63
JN12014- 040S		0.08	4.07	53.4	1.79	1025	<10	170	<0.5	3	1.04	<0.5	9	20	103	3.56
JN12014- 040B		2.10	<0.005	<0.2	0.02	<2	<10	<10	<0.5	5	>25.0	<0.5	<1	<1	1	0.06
JN12014- 041		1.00	0.015	0.9	0.45	18	<10	<10	3.8	13	1.79	0.5	41	6	986	17.3
JN12014- 042		3.32	<0.005	<0.2	0.66	<2	<10	<10	<0.5	<2	6.00	<0.5	1	5	6	4.70
JN12014- 043		3.88	<0.005	<0.2	0.52	3	<10	<10	<0.5	3	6.02	<0.5	<1	4	1	5.25
JN12014- 044		4.10	<0.005	<0.2	0.31	2	<10	<10	<0.5	4	6.04	<0.5	<1	1	2	5.22
JN12014- 045		4.74	0.010	<0.2	0.29	<2	<10	<10	1.0	6	1.74	<0.5	1	<1	5	1.89
JN12014- 046		4.36	0.014	<0.2	0.14	<2	<10	<10	1.8	4	1.39	<0.5	<1	1	<1	1.45
JN12014- 047		4.10	0.039	<0.2	0.14	2	<10	<10	1.2	23	0.87	<0.5	1	2	<1	1.09
JN12014- 048		3.48	0.050	<0.2	0.17	<2	<10	<10	2.5	19	2.09	<0.5	1	4	3	1.64
JN12014- 049		1.12	0.030	0.2	0.17	3	<10	<10	2.7	13	1.49	<0.5	3	6	33	3.45
JN12014- 050		1.94	0.067	0.2	0.15	2	<10	<10	3.2	27	1.54	<0.5	6	9	4	6.15
JN12014- 051		1.50	0.084	0.5	0.21	2	<10	<10	3.0	26	1.25	<0.5	9	10	2	8.75
JN12014- 052		0.96	0.056	0.2	0.22	<2	<10	<10	0.7	24	0.34	<0.5	4	5	3	1.48
JN12014- 053		3.12	0.087	<0.2	0.54	2	<10	10	1.4	14	1.00	<0.5	3	22	10	1.34
JN12014- 054		0.88	0.082	<0.2	0.67	2	<10	40	0.6	15	0.86	<0.5	2	14	4	1.15
JN12014- 055		1.84	0.057	0.2	0.21	<2	<10	<10	0.6	15	0.30	<0.5	4	6	3	1.38
JN12014- 056		1.28	0.039	<0.2	0.41	<2	<10	<10	0.7	11	0.38	<0.5	2	7	6	1.49
JN12014- 057		2.16	0.027	<0.2	0.61	<2	<10	30	0.7	14	0.73	<0.5	2	8	4	1.10
JN12014- 058		2.24	0.055	0.2	0.37	<2	<10	<10	0.5	24	0.19	<0.5	3	6	6	1.31
JN12014- 059		2.04	0.018	<0.2	0.50	<2	<10	<10	0.5	12	0.21	<0.5	3	6	13	0.89
JN12014- 060		1.08	0.401	0.6	0.58	4	<10	<10	0.5	393	0.15	<0.5	4	5	14	1.08
JN12014- 060D		<0.02	0.413	0.5	0.25	3	<10	<10	<0.5	410	0.16	<0.5	4	5	14	1.04
JN12014- 060S		0.08	0.965	0.4	1.66	1325	20	90	<0.5	26	3.71	<0.5	47	24	134	3.77
JN12014- 060B		1.78	<0.005	<0.2	0.02	<2	<10	<10	<0.5	6	>25.0	<0.5	<1	<1	1	0.04
JN12014- 061		1.64	0.029	0.4	0.45	2	<10	<10	<0.5	12	0.21	<0.5	3	4	4	1.29
JN12014- 062		2.36	0.025	0.3	0.44	<2	<10	<10	0.5	12	0.23	<0.5	3	5	5	1.27
JN12014- 063		1.38	<0.005	<0.2	0.37	<2	<10	20	<0.5	3	1.13	<0.5	2	7	<1	1.03
JN12014- 064		1.24	<0.005	<0.2	0.54	<2	<10	30	0.5	3	0.80	<0.5	2	10	2	1.26
JN12014- 065		1.92	<0.005	<0.2	0.62	<2	<10	70	<0.5	3	0.56	<0.5	2	6	5	1.45
JN12014- 066		0.62	0.029	<0.2	0.55	2	<10	30	0.6	16	0.70	<0.5	2	10	31	1.34
JN12014- 067		1.26	0.020	<0.2	0.71	<2	<10	60	0.5	15	0.57	<0.5	2	8	20	1.56
JN12014- 068		1.80	0.009	<0.2	0.77	<2	<10	50	0.5	7	0.77	<0.5	2	7	12	1.39
JN12014- 069		1.74	0.016	0.3	0.27	<2	<10	<10	0.7	35	1.35	<0.5	2	5	13	1.16
JN12014- 070		3.26	0.024	<0.2	0.65	2	<10	30	0.6	8	0.83	<0.5	2	12	2	1.26
JN12014- 071		2.28	0.030	0.4	0.28	2	<10	<10	0.6	21	0.56	0.6	3	7	11	1.72
JN12014- 072		1.10	<0.005	0.7	0.55	2	<10	10	0.5	6	0.13	0.8	3	4	22	1.56

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44 - 12TH AVENUE SOUTH
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CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12014- 038		10	<1	0.04	10	0.07	2420	5	0.01	<1	100	<2	0.04	<2	1	8
JN12014- 039		10	<1	0.02	20	0.38	6390	3	0.01	37	150	<2	0.09	<2	5	36
JN12014- 040		10	1	0.03	10	0.22	1870	15	0.01	4	120	3	0.02	<2	2	19
JN12014- 040S		10	<1	0.27	10	0.80	488	8	0.21	13	580	8	0.13	13	3	85
JN12014- 040B		<10	<1	<0.01	<10	1.83	27	<1	0.01	<1	50	<2	0.05	<2	<1	5010
JN12014- 041		10	<1	0.02	10	0.05	1525	12	0.01	<1	150	8	>10.0	<2	1	34
JN12014- 042		10	<1	0.04	<10	0.09	1690	5	0.01	<1	160	<2	0.06	<2	1	10
JN12014- 043		10	1	0.03	<10	0.06	1685	7	0.01	<1	100	<2	0.01	<2	1	14
JN12014- 044		10	<1	0.02	<10	0.03	1375	5	0.01	<1	140	<2	0.02	<2	<1	4
JN12014- 045		<10	<1	0.03	<10	0.05	864	7	0.02	<1	220	2	0.10	<2	<1	6
JN12014- 046		<10	<1	0.02	<10	0.05	801	15	0.02	<1	180	<2	0.01	<2	<1	5
JN12014- 047		<10	1	0.02	<10	0.04	490	23	0.02	<1	210	<2	0.01	<2	<1	4
JN12014- 048		<10	<1	0.02	10	0.07	868	3	0.02	<1	260	<2	0.07	<2	<1	6
JN12014- 049		<10	<1	0.01	10	0.13	1445	3	0.01	<1	410	9	0.74	<2	<1	8
JN12014- 050		<10	<1	0.01	10	0.21	3250	5	0.01	<1	440	3	0.26	<2	1	10
JN12014- 051		<10	<1	0.01	10	0.31	4490	4	0.01	<1	470	4	0.22	<2	2	9
JN12014- 052		<10	1	0.04	20	0.08	562	14	0.01	1	450	8	0.09	<2	2	9
JN12014- 053		<10	<1	0.16	20	0.31	421	8	0.05	5	770	2	0.07	<2	2	21
JN12014- 054		<10	<1	0.21	10	0.23	252	11	0.08	2	350	2	0.04	<2	3	43
JN12014- 055		<10	<1	0.04	20	0.07	489	24	0.01	<1	420	6	0.08	<2	2	8
JN12014- 056		<10	<1	0.03	20	0.06	446	13	0.01	<1	400	4	0.06	<2	2	10
JN12014- 057		<10	<1	0.16	20	0.16	222	62	0.07	1	390	4	0.05	<2	2	37
JN12014- 058		<10	<1	0.10	10	0.08	367	12	0.01	<1	360	8	0.23	<2	2	8
JN12014- 059		<10	<1	0.09	20	0.08	221	118	0.01	<1	430	5	0.09	<2	2	7
JN12014- 060		<10	<1	0.08	20	0.06	247	40	0.01	<1	350	14	0.14	4	2	6
JN12014- 060D		<10	<1	0.05	20	0.06	249	35	0.01	<1	360	15	0.14	5	2	5
JN12014- 060S		10	<1	0.18	10	0.60	776	9	0.17	23	800	10	0.30	3	3	105
JN12014- 060B		<10	<1	<0.01	<10	1.83	23	<1	0.01	<1	50	<2	0.05	<2	<1	5080
JN12014- 061		<10	1	0.08	20	0.07	321	29	0.01	<1	380	7	0.24	<2	2	17
JN12014- 062		<10	<1	0.08	20	0.09	306	45	0.01	<1	380	6	0.12	<2	2	8
JN12014- 063		<10	<1	0.14	10	0.21	209	36	0.02	<1	350	<2	0.02	<2	2	80
JN12014- 064		<10	<1	0.19	20	0.21	231	3	0.05	<1	400	3	0.03	<2	3	35
JN12014- 065		<10	<1	0.30	20	0.29	233	13	0.04	<1	380	3	0.04	<2	4	18
JN12014- 066		<10	<1	0.21	20	0.23	184	93	0.04	<1	360	2	0.13	<2	3	26
JN12014- 067		10	1	0.34	20	0.29	215	4	0.07	<1	400	2	0.10	<2	3	21
JN12014- 068		10	<1	0.27	20	0.27	241	24	0.08	<1	390	2	0.08	<2	3	40
JN12014- 069		<10	<1	0.10	20	0.20	300	7	0.03	<1	380	17	0.08	<2	2	50
JN12014- 070		<10	<1	0.20	20	0.23	257	58	0.07	1	380	2	0.03	<2	3	31
JN12014- 071		<10	<1	0.11	20	0.15	440	5	0.01	1	400	29	0.48	<2	2	18
JN12014- 072		<10	1	0.19	10	0.08	288	2	0.01	1	390	49	0.84	<2	1	4

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CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12014- 038		<20	0.03	<10	<10	10	70	35	
JN12014- 039		<20	<0.01	<10	<10	24	140	99	
JN12014- 040		<20	0.05	<10	<10	13	190	28	
JN12014- 040S		<20	0.13	<10	<10	90	<10	52	
JN12014- 040B		<20	<0.01	<10	<10	<1	<10	<2	
JN12014- 041		<20	0.01	<10	<10	9	180	53	
JN12014- 042		<20	0.02	<10	<10	7	80	20	
JN12014- 043		<20	0.03	<10	<10	7	80	21	
JN12014- 044		<20	0.01	<10	<10	3	60	13	
JN12014- 045		<20	0.01	<10	<10	1	130	16	
JN12014- 046		<20	<0.01	<10	<10	1	310	13	
JN12014- 047		<20	<0.01	<10	<10	1	80	13	
JN12014- 048		<20	0.01	<10	<10	2	120	14	
JN12014- 049		<20	<0.01	<10	<10	6	460	33	
JN12014- 050		<20	<0.01	<10	<10	15	570	51	
JN12014- 051		<20	<0.01	<10	<10	24	520	61	
JN12014- 052		<20	<0.01	<10	<10	9	120	14	
JN12014- 053		<20	0.04	<10	<10	18	780	19	
JN12014- 054		<20	0.06	<10	<10	14	40	14	
JN12014- 055		<20	<0.01	<10	<10	8	100	12	
JN12014- 056		<20	<0.01	<10	<10	9	90	22	
JN12014- 057		<20	0.04	<10	<10	11	240	15	
JN12014- 058		<20	<0.01	<10	<10	5	30	25	
JN12014- 059		<20	0.01	<10	<10	8	30	20	
JN12014- 060		<20	<0.01	<10	<10	7	20	46	
JN12014- 060D		<20	<0.01	<10	<10	6	10	30	
JN12014- 060S		<20	0.10	<10	<10	60	10	62	
JN12014- 060B		<20	<0.01	<10	<10	1	<10	<2	
JN12014- 061		<20	<0.01	<10	<10	8	10	11	
JN12014- 062		<20	<0.01	<10	<10	8	40	16	
JN12014- 063		<20	0.04	<10	<10	12	40	13	
JN12014- 064		<20	0.04	<10	<10	13	20	14	
JN12014- 065		<20	0.08	<10	<10	20	60	18	
JN12014- 066		<20	0.04	<10	<10	14	90	13	
JN12014- 067		<20	0.08	<10	<10	19	30	15	
JN12014- 068		<20	0.08	<10	<10	17	40	15	
JN12014- 069		<20	0.01	<10	<10	6	50	15	
JN12014- 070		<20	0.05	<10	<10	15	40	14	
JN12014- 071		<20	<0.01	<10	<10	6	10	71	
JN12014- 072		<20	<0.01	<10	<10	4	10	108	

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Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12014- 073		1.20	<0.005	<0.2	0.39	<2	<10	<10	<0.5	3	0.17	<0.5	3	3	14	1.42
JN12014- 074		1.80	0.017	1.6	0.48	68	<10	10	0.6	10	0.25	23.8	3	7	30	2.14
JN12014- 075		3.02	0.011	<0.2	0.43	<2	<10	30	0.7	4	0.92	<0.5	2	7	10	1.47
JN12014- 076		3.06	0.033	<0.2	0.65	2	<10	60	0.6	12	0.94	<0.5	2	9	6	1.63
JN12014- 077		2.70	<0.005	<0.2	0.34	<2	<10	30	0.5	4	1.08	<0.5	2	9	7	1.46
JN12014- 078		3.96	0.011	<0.2	0.56	2	<10	40	0.6	8	0.96	<0.5	2	7	11	1.56
JN12014- 079		2.74	<0.005	<0.2	0.83	<2	<10	110	<0.5	2	0.64	<0.5	3	11	10	1.82
JN12014- 080		4.12	0.024	<0.2	0.67	<2	<10	80	0.5	3	0.57	<0.5	2	8	1	1.47
JN12014- 080S		0.08	4.03	53.2	1.89	1025	<10	180	<0.5	3	1.08	<0.5	9	20	102	3.63
JN12014- 080B		1.92	<0.005	<0.2	0.02	<2	<10	<10	<0.5	5	>25.0	<0.5	<1	<1	1	0.04
JN12014- 081		3.02	0.005	<0.2	0.73	<2	<10	70	<0.5	2	0.54	<0.5	2	10	6	1.33
JN12014- 082		2.42	<0.005	<0.2	0.29	<2	<10	<10	0.6	3	0.26	<0.5	2	5	17	1.81
JN12014- 083		1.84	<0.005	<0.2	0.52	<2	<10	10	0.7	3	0.70	<0.5	2	4	3	1.46
JN12014- 084		2.12	<0.005	<0.2	0.61	2	<10	90	<0.5	4	0.54	<0.5	3	9	7	1.57
JN12014- 085		2.96	0.013	<0.2	0.70	<2	<10	80	0.5	17	0.58	<0.5	3	9	6	1.55
JN12014- 086		1.52	0.007	<0.2	0.41	2	<10	50	0.6	7	0.70	<0.5	2	6	2	1.51
JN12014- 087		2.26	0.143	<0.2	0.51	<2	<10	20	0.7	15	0.78	<0.5	2	8	4	1.50
JN12014- 088		1.70	0.006	0.3	0.21	2	<10	<10	0.5	27	0.67	<0.5	2	4	3	1.53
JN12014- 089		1.00	0.010	<0.2	0.57	<2	<10	10	0.6	10	0.54	<0.5	2	7	4	1.17
JN12014- 090		2.70	0.077	<0.2	0.42	2	<10	10	<0.5	8	0.23	<0.5	2	7	3	1.26
JN12014- 090D		<0.02	0.035	<0.2	0.40	<2	<10	<10	<0.5	7	0.22	<0.5	2	5	4	1.14
JN12014- 091		2.60	0.066	0.2	0.22	<2	<10	<10	<0.5	69	0.17	<0.5	2	4	3	1.32
JN12014- 092		1.14	<0.005	<0.2	0.38	<2	<10	<10	<0.5	8	0.12	<0.5	1	5	2	0.93
JN12014- 093		1.06	0.005	<0.2	0.24	<2	<10	<10	<0.5	2	0.14	<0.5	2	4	1	1.40
JN12014- 094		2.68	0.008	<0.2	0.43	<2	<10	<10	<0.5	3	0.17	<0.5	3	4	3	1.29
JN12014- 095		3.06	0.038	<0.2	0.49	2	<10	<10	0.5	8	0.19	<0.5	3	7	6	1.44
JN12014- 096		1.94	0.011	<0.2	0.21	<2	<10	<10	<0.5	3	0.12	<0.5	2	4	4	0.87
JN12014- 097		2.42	0.075	<0.2	0.43	<2	10	<10	0.5	24	0.28	<0.5	3	3	2	1.48
JN12014- 098		3.12	0.007	<0.2	0.29	2	<10	20	0.5	3	0.99	<0.5	2	5	1	1.63
JN12014- 099		2.02	0.023	<0.2	0.31	<2	10	20	0.7	14	1.22	<0.5	2	4	1	1.62
JN12014- 100		2.10	0.037	<0.2	0.48	3	20	20	0.8	21	1.43	<0.5	2	5	1	1.70
JN12014- 100S		0.08	0.916	0.5	1.73	1350	30	90	<0.5	26	3.84	<0.5	49	24	138	3.92
JN12014- 100B		1.76	<0.005	<0.2	0.02	<2	<10	<10	<0.5	8	>25.0	<0.5	<1	<1	1	0.05
JN12014- 101		0.76	8.61	1.6	0.06	26	<10	<10	<0.5	4140	0.47	<0.5	1	8	6	0.33
JN12014- 102		2.04	0.076	<0.2	0.49	2	10	40	0.7	64	1.12	<0.5	2	6	9	1.59
JN12014- 103		2.66	0.028	<0.2	0.56	<2	10	70	0.7	14	1.05	<0.5	3	7	5	1.78
JN12014- 104		2.98	0.015	<0.2	0.67	<2	10	90	0.7	13	1.05	<0.5	3	8	3	1.91
JN12014- 105		2.86	0.008	<0.2	0.66	2	<10	80	0.6	10	0.92	<0.5	3	8	3	1.65
JN12014- 106		3.10	0.012	<0.2	0.51	11	20	40	0.8	5	1.53	<0.5	3	6	5	1.87
JN12014- 107		0.62	0.021	<0.2	0.39	21	30	30	0.6	11	1.49	<0.5	3	6	2	1.62

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description / Method / Analyte / Units / LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
JN12014- 073	<10	1	0.09	20	0.08	524	8	0.01	1	410	9	0.32	<2	2	6
JN12014- 074	<10	1	0.17	10	0.09	340	3	0.01	1	380	116	1.60	<2	2	8
JN12014- 075	<10	<1	0.20	20	0.25	282	11	0.03	<1	390	3	0.15	<2	3	31
JN12014- 076	<10	<1	0.31	20	0.30	309	14	0.06	1	400	10	0.13	<2	3	35
JN12014- 077	<10	1	0.19	20	0.24	296	5	0.03	<1	400	9	0.22	<2	2	42
JN12014- 078	<10	<1	0.25	20	0.27	276	1	0.05	1	390	8	0.16	<2	3	37
JN12014- 079	10	<1	0.47	20	0.37	289	18	0.07	<1	430	4	0.06	<2	5	24
JN12014- 080	<10	<1	0.36	20	0.29	266	3	0.07	<1	390	4	0.02	<2	4	23
JN12014- 080S	10	<1	0.27	10	0.82	490	8	0.23	13	590	7	0.13	15	3	91
JN12014- 080B	<10	<1	<0.01	<10	1.84	22	<1	0.01	<1	50	<2	0.07	<2	<1	5410
JN12014- 081	<10	<1	0.39	20	0.26	221	34	0.09	<1	360	5	0.03	<2	4	24
JN12014- 082	<10	<1	0.07	20	0.15	487	10	0.01	<1	400	9	0.17	<2	3	12
JN12014- 083	<10	<1	0.13	20	0.22	269	19	0.02	<1	430	7	0.11	<2	3	31
JN12014- 084	<10	<1	0.38	20	0.31	254	29	0.04	<1	410	3	0.04	<2	4	17
JN12014- 085	<10	<1	0.38	20	0.30	230	2	0.05	1	410	3	0.03	<2	4	19
JN12014- 086	<10	<1	0.24	20	0.27	225	12	0.03	<1	410	3	0.02	<2	4	35
JN12014- 087	<10	1	0.15	60	0.22	245	12	0.03	<1	380	6	0.04	<2	4	47
JN12014- 088	<10	1	0.07	20	0.21	331	4	0.01	1	380	32	0.15	<2	3	35
JN12014- 089	<10	<1	0.14	20	0.17	242	86	0.02	<1	390	7	0.10	<2	2	26
JN12014- 090	<10	<1	0.11	20	0.11	248	10	0.01	<1	340	8	0.09	<2	3	12
JN12014- 090D	<10	<1	0.09	20	0.11	232	4	0.01	<1	330	8	0.08	<2	2	11
JN12014- 091	<10	<1	0.06	10	0.10	334	23	0.01	<1	360	20	0.07	<2	3	7
JN12014- 092	<10	<1	0.13	10	0.06	191	22	0.01	<1	330	10	0.03	<2	1	7
JN12014- 093	<10	<1	0.07	10	0.10	323	54	0.01	<1	330	14	0.09	<2	3	5
JN12014- 094	<10	1	0.09	20	0.09	231	12	0.01	1	390	9	0.28	<2	3	9
JN12014- 095	<10	<1	0.08	20	0.12	265	5	<0.01	1	400	9	0.13	<2	4	9
JN12014- 096	<10	<1	0.06	10	0.07	159	18	0.01	<1	290	6	0.14	<2	2	6
JN12014- 097	<10	<1	0.12	20	0.13	260	21	0.01	<1	390	12	0.16	<2	3	14
JN12014- 098	<10	<1	0.12	20	0.23	303	4	0.02	<1	370	7	0.09	<2	3	39
JN12014- 099	<10	<1	0.15	20	0.25	305	109	0.02	<1	370	9	0.07	<2	4	84
JN12014- 100	<10	<1	0.22	20	0.27	292	49	0.03	<1	370	13	0.09	2	3	81
JN12014- 100S	10	<1	0.18	10	0.62	800	10	0.18	24	820	11	0.31	<2	3	109
JN12014- 100B	<10	1	<0.01	<10	1.74	21	<1	0.01	<1	50	<2	0.05	<2	<1	4830
JN12014- 101	<10	<1	0.03	<10	0.06	54	252	0.01	<1	60	25	0.14	62	<1	36
JN12014- 102	<10	<1	0.24	20	0.22	247	11	0.04	2	390	10	0.09	2	3	63
JN12014- 103	<10	<1	0.28	20	0.27	307	8	0.05	<1	400	8	0.07	<2	4	67
JN12014- 104	<10	<1	0.33	20	0.29	320	16	0.07	1	420	10	0.06	2	4	73
JN12014- 105	<10	<1	0.33	20	0.27	290	26	0.07	1	390	7	0.13	<2	4	52
JN12014- 106	<10	<1	0.27	20	0.24	353	2	0.04	1	440	11	0.37	3	3	88
JN12014- 107	<10	<1	0.26	20	0.25	296	2	0.01	1	440	15	0.23	7	2	84

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF0S
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12014- 073		<20	<0.01	<10	<10	7	10	25	
JN12014- 074		<20	<0.01	<10	<10	5	160	2520	
JN12014- 075		<20	0.04	<10	<10	13	190	21	
JN12014- 076		<20	0.05	<10	<10	16	60	22	
JN12014- 077		<20	0.03	<10	<10	9	60	22	
JN12014- 078		<20	0.03	<10	<10	13	40	26	
JN12014- 079		<20	0.11	<10	<10	23	20	24	
JN12014- 080		<20	0.08	<10	<10	18	20	21	
JN12014- 080S		<20	0.14	<10	<10	91	<10	51	
JN12014- 080B		<20	<0.01	<10	<10	1	<10	<2	
JN12014- 081		<20	0.08	<10	<10	17	50	18	
JN12014- 082		<20	<0.01	<10	<10	9	10	17	
JN12014- 083		<20	0.01	<10	<10	10	40	31	
JN12014- 084		<20	0.09	<10	<10	20	60	20	
JN12014- 085		<20	0.08	<10	<10	20	30	20	
JN12014- 086		<20	0.04	<10	<10	15	20	19	
JN12014- 087		<20	<0.01	<10	<10	9	170	15	
JN12014- 088		<20	<0.01	<10	<10	5	30	16	
JN12014- 089		<20	<0.01	<10	<10	6	20	29	
JN12014- 090		<20	<0.01	<10	<10	6	30	15	
JN12014- 090D		<20	<0.01	<10	<10	6	30	14	
JN12014- 091		<20	<0.01	<10	<10	8	10	16	
JN12014- 092		<20	<0.01	<10	<10	3	<10	19	
JN12014- 093		<20	<0.01	<10	<10	4	10	19	
JN12014- 094		<20	<0.01	<10	<10	7	10	11	
JN12014- 095		<20	<0.01	<10	<10	11	10	17	
JN12014- 096		<20	<0.01	<10	<10	5	10	15	
JN12014- 097		<20	<0.01	<10	<10	7	10	21	
JN12014- 098		<20	0.01	<10	<10	8	10	22	
JN12014- 099		<20	0.01	<10	<10	8	10	26	
JN12014- 100		<20	<0.01	<10	<10	5	20	25	
JN12014- 100S		<20	0.11	<10	<10	61	10	63	
JN12014- 100B		<20	<0.01	<10	<10	1	<10	<2	
JN12014- 101		<20	<0.01	<10	<10	<1	90	2	
JN12014- 102		<20	0.01	<10	<10	8	40	20	
JN12014- 103		<20	0.03	<10	<10	12	20	25	
JN12014- 104		<20	0.03	<10	<10	14	20	25	
JN12014- 105		<20	0.04	<10	<10	14	130	20	
JN12014- 106		<20	0.01	<10	<10	6	10	23	
JN12014- 107		<20	<0.01	<10	<10	2	<10	16	

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CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12014- 108		2.58	0.011	<0.2	0.63	5	10	60	0.5	7	0.81	<0.5	3	9	3	1.51
JN12014- 109		2.28	0.053	0.3	0.37	87	20	20	0.6	2	0.80	<0.5	3	8	3	1.67
JN12014- 110		2.60	0.031	<0.2	0.64	29	20	30	0.8	11	0.85	<0.5	3	3	2	1.83
JN12014- 111		2.88	0.308	0.4	0.38	485	30	20	0.6	14	0.96	<0.5	3	3	3	1.68
JN12014- 112		0.68	0.735	0.3	0.54	1125	40	20	0.9	6	0.55	<0.5	5	4	4	1.78
JN12014- 113		2.60	0.005	0.2	0.77	3	10	50	0.9	2	1.18	<0.5	3	7	4	1.59
JN12014- 114		2.94	0.046	<0.2	0.83	131	30	60	1.0	2	1.46	<0.5	3	5	1	1.92
JN12014- 115		2.54	0.033	<0.2	1.26	<2	<10	150	0.7	11	0.61	<0.5	3	8	10	1.76
JN12014- 116		3.26	0.047	<0.2	1.05	2	<10	100	0.8	8	0.94	<0.5	3	9	3	1.67
JN12014- 117		3.14	0.090	<0.2	1.08	<2	<10	100	0.7	14	0.89	<0.5	3	7	4	1.66
JN12014- 118		2.98	0.110	<0.2	1.06	<2	<10	90	0.9	26	1.07	<0.5	3	7	9	1.61
JN12014- 119		3.04	0.165	<0.2	1.04	<2	10	100	0.8	26	0.92	<0.5	3	7	5	1.74
JN12014- 120		3.02	0.011	<0.2	1.19	<2	<10	140	0.7	2	0.74	<0.5	3	7	4	1.89
JN12014- 120D		<0.02	0.010	<0.2	1.28	<2	<10	140	0.8	2	0.77	<0.5	3	8	4	1.90
JN12014- 120S		0.08	0.947	0.4	1.78	1350	30	100	<0.5	27	3.88	<0.5	51	25	140	3.89
JN12014- 120B		2.44	0.005	<0.2	0.04	<2	<10	10	<0.5	4	>25.0	<0.5	<1	<1	1	0.05
JN12014- 121		3.44	0.062	0.2	1.39	<2	<10	170	0.8	12	0.88	<0.5	3	7	5	1.98
JN12014- 122		3.24	0.015	0.2	1.03	2	<10	100	0.8	6	1.21	<0.5	3	7	10	1.84
JN12014- 123		3.18	0.046	<0.2	1.25	<2	<10	150	0.8	7	0.75	<0.5	3	8	6	1.89
JN12014- 124		3.52	0.029	<0.2	1.28	<2	<10	170	0.6	14	0.73	<0.5	3	7	4	1.86
JN12014- 125		3.32	0.057	<0.2	1.35	<2	<10	160	0.6	10	0.80	<0.5	4	7	3	1.92
JN12014- 126		2.96	0.043	<0.2	1.39	<2	<10	180	0.5	12	0.60	<0.5	3	7	2	2.00
JN12014- 127		1.74	0.030	<0.2	1.33	<2	<10	150	0.7	7	0.66	<0.5	3	7	2	1.86
JN12014- 128		0.86	0.009	<0.2	0.98	<2	10	60	1.1	6	1.41	<0.5	3	6	19	1.55
JN12014- 129		2.96	0.013	<0.2	1.17	<2	10	90	0.8	5	1.25	<0.5	3	7	5	2.01
JN12014- 130		3.38	0.038	<0.2	1.18	<2	<10	110	0.6	13	0.96	<0.5	4	7	2	1.95
JN12014- 131		2.00	0.017	<0.2	1.59	<2	<10	30	1.1	9	1.61	<0.5	4	3	4	1.50
JN12014- 132		1.82	0.062	2.9	1.16	2	10	50	0.8	212	1.01	1.3	4	3	50	2.44
JN12014- 133		2.50	0.018	<0.2	1.14	<2	<10	130	0.7	8	0.86	<0.5	3	7	3	1.79
JN12014- 134		3.22	0.252	<0.2	1.07	2	10	100	0.7	18	0.91	<0.5	2	6	3	1.79
JN12014- 135		3.16	0.014	<0.2	1.26	<2	<10	140	0.6	3	0.79	<0.5	3	8	1	1.96
JN12014- 136		3.20	0.030	<0.2	1.40	<2	<10	160	0.7	3	0.67	<0.5	3	8	<1	1.92
JN12014- 137		0.92	0.009	<0.2	1.04	<2	20	80	0.8	3	1.23	<0.5	3	5	1	1.84
JN12014- 138		3.46	0.013	<0.2	1.28	<2	10	140	0.7	3	0.86	<0.5	3	7	<1	1.97
JN12014- 139		3.18	0.014	<0.2	1.23	2	20	120	0.7	4	1.14	<0.5	3	8	1	1.96
JN12014- 140		3.68	0.061	<0.2	1.19	5	30	110	0.9	11	1.20	<0.5	3	6	1	1.85
JN12014- 140S		0.08	4.01	57.8	1.92	1015	<10	190	<0.5	4	1.10	<0.5	10	20	102	3.55
JN12014- 140B		2.34	<0.005	<0.2	0.05	<2	<10	10	<0.5	4	>25.0	<0.5	<1	<1	1	0.05
JN12014- 141		2.72	0.012	<0.2	1.39	<2	<10	180	0.6	6	0.82	<0.5	3	7	1	1.85
JN12014- 142		3.08	0.030	<0.2	1.24	<2	10	150	0.6	21	0.81	<0.5	3	8	<1	1.85

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12014- 108		<10	<1	0.30	20	0.22	256	5	0.05	1	410	9	0.05	2	3	37
JN12014- 109		<10	<1	0.18	20	0.19	318	1	0.01	1	420	10	0.42	3	3	37
JN12014- 110		<10	<1	0.23	20	0.21	426	15	0.01	<1	430	19	0.18	4	4	36
JN12014- 111		<10	<1	0.27	20	0.21	347	2	0.01	1	430	21	0.55	11	3	35
JN12014- 112		<10	<1	0.33	10	0.12	236	29	0.01	1	380	15	1.27	10	2	19
JN12014- 113		<10	<1	0.30	20	0.21	306	33	0.07	1	440	9	0.05	<2	4	46
JN12014- 114		<10	<1	0.39	20	0.27	358	31	0.06	<1	430	13	0.27	4	4	94
JN12014- 115		10	<1	0.58	20	0.35	272	66	0.21	<1	440	5	0.05	<2	5	33
JN12014- 116		10	<1	0.37	20	0.32	282	3	0.18	1	440	4	0.02	<2	4	50
JN12014- 117		10	<1	0.40	20	0.32	279	26	0.18	<1	420	7	0.05	<2	4	46
JN12014- 118		10	<1	0.42	20	0.30	295	22	0.15	1	410	8	0.12	<2	4	40
JN12014- 119		10	<1	0.44	30	0.31	304	44	0.15	<1	400	10	0.10	<2	4	44
JN12014- 120		10	<1	0.49	30	0.36	298	2	0.17	<1	410	5	0.04	<2	5	38
JN12014- 120D		10	<1	0.52	30	0.36	295	2	0.20	<1	420	5	0.04	<2	5	42
JN12014- 120S		10	<1	0.18	10	0.61	841	10	0.18	24	850	11	0.32	5	3	112
JN12014- 120B		<10	<1	0.01	<10	1.75	25	<1	0.02	<1	50	<2	0.06	<2	<1	5330
JN12014- 121		10	<1	0.59	30	0.39	317	12	0.22	1	440	10	0.07	<2	5	52
JN12014- 122		10	<1	0.50	30	0.31	384	2	0.12	1	430	16	0.25	2	4	80
JN12014- 123		10	<1	0.59	30	0.35	287	6	0.18	<1	410	5	0.06	<2	5	39
JN12014- 124		10	<1	0.63	30	0.36	320	<1	0.18	<1	420	6	0.07	<2	5	35
JN12014- 125		10	<1	0.59	30	0.37	300	9	0.19	<1	410	6	0.04	<2	5	40
JN12014- 126		10	<1	0.68	30	0.40	314	1	0.20	<1	420	5	0.02	<2	6	32
JN12014- 127		10	<1	0.59	20	0.37	296	1	0.19	1	400	5	0.03	<2	5	34
JN12014- 128		<10	<1	0.49	20	0.21	296	2	0.09	1	390	8	0.38	<2	2	50
JN12014- 129		10	<1	0.45	30	0.32	337	4	0.14	1	430	9	0.16	<2	4	55
JN12014- 130		10	<1	0.46	20	0.36	320	1	0.14	<1	430	13	0.08	<2	5	43
JN12014- 131		<10	<1	0.23	30	0.15	452	<1	0.02	<1	420	12	0.12	<2	4	36
JN12014- 132		<10	<1	0.47	10	0.16	540	1	0.03	<1	360	160	1.48	9	2	30
JN12014- 133		<10	<1	0.56	20	0.32	373	<1	0.15	1	390	8	0.14	<2	4	41
JN12014- 134		<10	<1	0.48	20	0.30	406	1	0.14	<1	380	10	0.12	<2	4	44
JN12014- 135		10	<1	0.52	20	0.38	360	2	0.18	1	410	8	0.02	<2	5	41
JN12014- 136		10	<1	0.61	20	0.39	303	2	0.21	<1	410	5	0.01	<2	5	38
JN12014- 137		<10	<1	0.45	30	0.33	309	<1	0.13	1	410	8	0.03	<2	4	79
JN12014- 138		10	<1	0.57	30	0.38	342	1	0.18	<1	420	6	0.01	<2	5	54
JN12014- 139		10	<1	0.52	30	0.35	432	1	0.16	<1	410	14	0.03	2	4	70
JN12014- 140		<10	<1	0.54	30	0.34	359	1	0.12	1	410	10	0.08	3	4	79
JN12014- 140S		10	<1	0.27	10	0.80	513	9	0.23	13	600	7	0.13	17	3	95
JN12014- 140B		<10	<1	0.01	<10	1.76	24	<1	0.01	<1	50	<2	0.07	<2	<1	5150
JN12014- 141		10	<1	0.65	30	0.37	327	3	0.20	1	390	6	0.02	<2	5	57
JN12014- 142		10	<1	0.54	30	0.36	356	1	0.18	<1	390	6	0.02	<2	5	51

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12014- 108		<20	0.03	<10	<10	11	10	19	
JN12014- 109		<20	<0.01	<10	<10	4	20	21	
JN12014- 110		<20	<0.01	<10	<10	7	<10	29	
JN12014- 111		<20	<0.01	<10	<10	2	<10	25	
JN12014- 112		<20	<0.01	<10	<10	2	<10	25	
JN12014- 113		<20	0.01	<10	<10	11	10	26	
JN12014- 114		<20	0.01	<10	<10	10	10	28	
JN12014- 115		<20	0.12	<10	<10	24	40	21	
JN12014- 116		<20	0.08	<10	<10	19	80	18	
JN12014- 117		<20	0.07	<10	<10	19	20	20	
JN12014- 118		<20	0.06	<10	<10	19	60	18	
JN12014- 119		<20	0.05	<10	<10	18	40	25	
JN12014- 120		<20	0.09	<10	<10	23	30	23	
JN12014- 120D		<20	0.09	<10	<10	23	30	23	
JN12014- 120S		<20	0.11	<10	<10	61	10	65	
JN12014- 120B		<20	<0.01	<10	<10	1	<10	<2	
JN12014- 121		<20	0.11	<10	<10	26	30	24	
JN12014- 122		<20	0.05	<10	<10	19	50	42	
JN12014- 123		<20	0.09	<10	<10	23	120	23	
JN12014- 124		<20	0.11	<10	<10	24	20	21	
JN12014- 125		<20	0.09	<10	<10	24	20	23	
JN12014- 126		<20	0.13	<10	<10	27	20	24	
JN12014- 127		<20	0.10	<10	<10	24	10	22	
JN12014- 128		<20	0.01	<10	<10	9	10	14	
JN12014- 129		<20	0.03	<10	<10	18	10	24	
JN12014- 130		<20	0.06	<10	<10	22	40	21	
JN12014- 131		<20	<0.01	<10	<10	11	<10	20	
JN12014- 132		<20	<0.01	<10	<10	6	40	180	
JN12014- 133		<20	0.07	<10	<10	19	50	24	
JN12014- 134		<20	0.05	<10	<10	17	10	26	
JN12014- 135		<20	0.10	<10	<10	23	10	25	
JN12014- 136		<20	0.12	<10	<10	25	20	20	
JN12014- 137		<20	0.02	<10	<10	14	10	22	
JN12014- 138		<20	0.08	<10	<10	22	10	24	
JN12014- 139		<20	0.06	<10	<10	18	10	27	
JN12014- 140		<20	0.04	<10	<10	16	20	25	
JN12014- 140S		<20	0.15	<10	<10	90	<10	53	
JN12014- 140B		<20	<0.01	<10	<10	1	<10	<2	
JN12014- 141		<20	0.11	<10	<10	24	40	24	
JN12014- 142		<20	0.08	<10	<10	22	30	27	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12014- 143		3.42	0.018	<0.2	1.03	<2	10	100	0.7	11	1.34	<0.5	3	7	2	1.87
JN12014- 144		2.30	<0.005	<0.2	1.17	2	10	140	0.6	2	0.87	<0.5	3	6	<1	1.89
JN12014- 145		2.22	0.013	<0.2	1.55	3	10	30	0.8	3	0.90	<0.5	4	3	1	2.02
JN12014- 146		2.10	0.054	0.2	1.34	9	20	20	0.5	<2	0.53	<0.5	4	3	1	1.92
JN12014- 147		2.00	0.059	<0.2	1.56	<2	20	40	0.8	8	1.24	<0.5	4	2	2	1.76
JN12014- 148		1.78	0.009	0.3	1.62	<2	10	130	1.2	2	0.65	<0.5	8	3	3	1.64
JN12014- 149		3.14	0.025	<0.2	1.24	2	10	130	0.7	8	0.95	<0.5	2	5	<1	1.86
JN12014- 150		3.14	0.008	<0.2	1.03	2	10	90	0.7	<2	1.20	<0.5	3	6	<1	1.84
JN12014- 150D		<0.02	0.009	<0.2	1.16	2	20	100	0.7	<2	1.18	<0.5	3	5	1	1.83
JN12014- 151		2.90	0.060	<0.2	1.07	<2	10	120	0.6	19	1.01	<0.5	3	6	<1	1.83
JN12014- 152		2.12	0.019	<0.2	1.21	2	20	120	0.7	15	1.10	<0.5	3	5	<1	1.82
JN12014- 153		2.52	0.008	<0.2	1.19	<2	20	110	0.8	5	1.17	<0.5	5	6	2	1.88
JN12014- 154		2.68	0.092	<0.2	1.48	2	10	40	0.9	28	1.50	<0.5	4	4	2	1.55
JN12014- 155		1.60	0.030	<0.2	1.51	4	40	40	0.9	8	0.99	<0.5	4	2	1	2.01
JN12014- 156		1.56	1.455	<0.2	1.16	3020	70	40	0.9	14	1.22	<0.5	4	2	1	1.93
JN12014- 157		3.12	0.020	<0.2	0.82	5	10	60	0.8	2	1.31	<0.5	3	5	1	1.78
JN12014- 158		1.64	0.033	<0.2	1.05	9	30	80	0.9	10	1.42	<0.5	4	5	1	1.69
JN12014- 159		0.58	1.680	0.3	0.52	5	20	40	0.6	218	1.44	<0.5	3	3	2	1.39
JN12014- 160		1.60	0.012	<0.2	1.12	<2	10	110	0.7	3	0.89	<0.5	3	5	1	1.70
JN12014- 160S		0.08	0.955	0.4	1.73	1310	30	100	<0.5	26	3.73	<0.5	49	24	134	3.75
JN12014- 160B		2.32	0.006	<0.2	0.03	<2	<10	<10	<0.5	5	>25.0	<0.5	<1	<1	1	0.04
JN12014- 161		2.42	0.011	<0.2	1.17	4	30	70	1.1	5	2.39	0.7	4	3	8	1.66
JN12014- 162		2.44	0.303	<0.2	0.73	234	30	50	1.0	21	2.07	<0.5	3	3	1	1.56
JN12014- 163		0.58	2.04	0.2	0.74	2	20	70	0.7	297	0.81	<0.5	2	4	1	1.33
JN12014- 164		0.72	0.256	<0.2	0.68	3	10	60	0.8	26	1.13	<0.5	2	5	1	1.33
JN12014- 165		2.76	0.043	<0.2	0.94	49	40	60	1.0	7	1.68	<0.5	3	4	1	1.72
JN12014- 166		2.88	0.166	<0.2	0.96	<2	10	100	0.6	19	0.98	<0.5	2	6	2	1.84
JN12014- 167		2.00	0.255	<0.2	0.85	2	20	70	0.8	29	1.44	<0.5	2	4	<1	1.90
JN12014- 168		0.56	1.510	0.3	1.04	3	20	30	0.6	546	0.83	<0.5	3	3	9	1.98
JN12014- 169		0.68	0.978	0.9	0.43	2	20	10	<0.5	877	0.09	<0.5	2	11	24	1.22
JN12014- 170		2.74	0.026	<0.2	0.85	5	30	30	0.6	5	1.72	<0.5	2	4	6	1.52
JN12014- 171		1.08	0.028	<0.2	0.82	10	30	50	0.9	7	2.01	<0.5	2	4	<1	1.61
JN12014- 172		0.62	4.48	4.4	0.10	8	<10	10	<0.5	1400	0.35	<0.5	<1	9	5	0.55
JN12014- 173		0.70	0.016	<0.2	0.50	3	10	30	<0.5	6	0.94	<0.5	1	6	3	1.18
JN12014- 174		1.36	0.046	<0.2	0.89	2	10	70	0.6	14	0.89	<0.5	2	4	5	1.80
JN12014- 175		2.18	0.006	<0.2	0.51	<2	10	40	0.5	3	0.87	<0.5	2	5	5	1.48
JN12014- 176		2.98	0.074	<0.2	0.71	4	10	60	0.6	15	1.06	<0.5	2	6	5	1.61
JN12014- 177		2.34	0.032	0.8	0.95	46	20	40	0.6	12	1.16	0.8	2	6	6	1.48
JN12014- 178		2.46	0.212	0.3	1.35	8	20	20	0.6	59	0.59	<0.5	3	4	42	1.63
JN12014- 179		3.18	0.164	0.4	0.66	3	10	20	0.5	66	0.55	<0.5	3	4	60	1.72

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12014- 143		<10	<1	0.45	30	0.33	405	3	0.15	<1	390	12	0.05	<2	4	101
JN12014- 144		10	<1	0.54	30	0.35	406	2	0.18	<1	390	6	0.01	3	5	63
JN12014- 145		<10	<1	0.24	20	0.26	597	<1	0.01	1	390	21	0.33	3	4	47
JN12014- 146		<10	<1	0.21	10	0.16	416	<1	0.01	1	360	23	1.12	9	3	31
JN12014- 147		<10	<1	0.28	20	0.30	456	<1	0.02	<1	400	16	0.04	2	4	61
JN12014- 148		<10	<1	0.33	30	0.22	407	<1	0.04	<1	430	11	0.08	2	4	36
JN12014- 149		10	<1	0.56	30	0.34	434	<1	0.16	1	380	7	0.03	<2	5	60
JN12014- 150		<10	<1	0.43	20	0.32	412	<1	0.11	1	390	8	0.05	<2	4	76
JN12014- 150D		<10	<1	0.47	20	0.32	407	<1	0.13	<1	390	8	0.05	<2	4	77
JN12014- 151		<10	<1	0.47	20	0.34	348	<1	0.13	<1	390	8	0.02	<2	5	72
JN12014- 152		10	<1	0.51	30	0.34	333	3	0.15	<1	400	9	0.02	<2	4	83
JN12014- 153		10	<1	0.50	20	0.34	320	1	0.15	<1	410	8	0.05	<2	4	71
JN12014- 154		<10	<1	0.24	20	0.20	377	5	0.02	<1	400	15	0.07	<2	4	53
JN12014- 155		<10	<1	0.33	30	0.29	429	<1	0.01	<1	410	13	0.06	<2	4	56
JN12014- 156		<10	<1	0.58	20	0.22	314	2	0.01	<1	400	14	1.15	18	3	61
JN12014- 157		<10	<1	0.30	20	0.29	311	<1	0.06	<1	410	8	0.05	<2	4	82
JN12014- 158		<10	<1	0.48	30	0.29	267	<1	0.10	<1	400	9	0.06	<2	4	99
JN12014- 159		<10	<1	0.28	20	0.24	223	25	0.04	<1	300	9	0.09	3	2	72
JN12014- 160		10	<1	0.47	20	0.33	227	9	0.15	<1	390	4	0.03	<2	4	47
JN12014- 160S		<10	<1	0.18	10	0.58	813	9	0.18	24	810	9	0.30	5	3	108
JN12014- 160B		<10	<1	0.01	<10	1.87	23	<1	0.01	<1	50	<2	0.10	<2	<1	5200
JN12014- 161		<10	<1	0.59	20	0.22	774	22	0.05	<1	410	10	0.66	3	2	124
JN12014- 162		<10	<1	0.40	20	0.26	326	4	0.03	1	370	13	0.18	3	3	161
JN12014- 163		<10	<1	0.38	20	0.23	214	7	0.09	<1	380	6	0.03	3	3	58
JN12014- 164		<10	<1	0.37	20	0.22	227	1	0.07	<1	320	7	0.03	<2	3	93
JN12014- 165		<10	<1	0.47	20	0.29	349	1	0.06	<1	390	13	0.12	2	3	110
JN12014- 166		<10	<1	0.43	20	0.32	301	7	0.13	2	380	8	0.02	2	4	63
JN12014- 167		<10	<1	0.36	20	0.30	338	<1	0.07	<1	400	8	0.06	2	3	99
JN12014- 168		<10	1	0.29	20	0.24	440	11	0.01	<1	350	19	0.51	14	3	50
JN12014- 169		<10	<1	0.19	10	0.02	55	140	0.01	<1	120	85	0.95	38	<1	10
JN12014- 170		<10	<1	0.38	10	0.20	308	3	0.01	<1	380	8	0.96	7	2	78
JN12014- 171		<10	<1	0.44	20	0.25	285	20	0.02	<1	400	7	0.57	2	2	115
JN12014- 172		<10	<1	0.05	<10	0.02	96	37	0.01	<1	30	171	0.09	40	<1	16
JN12014- 173		<10	<1	0.29	10	0.14	245	2	0.04	<1	340	2	0.40	2	1	53
JN12014- 174		<10	<1	0.42	20	0.28	234	77	0.09	<1	430	7	0.23	<2	3	55
JN12014- 175		<10	<1	0.29	20	0.22	185	2	0.06	<1	410	5	0.18	<2	2	52
JN12014- 176		<10	<1	0.36	20	0.25	224	6	0.07	<1	400	9	0.18	2	3	62
JN12014- 177		<10	<1	0.40	20	0.20	311	2	0.02	<1	400	59	0.36	5	2	64
JN12014- 178		<10	<1	0.31	20	0.17	368	2	0.01	<1	370	22	0.29	8	3	32
JN12014- 179		<10	<1	0.19	20	0.17	388	27	0.01	<1	390	29	0.21	6	3	29

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	W- XRF05 W ppm 10
JN12014- 143		<20	0.04	<10	<10	16	10	32	
JN12014- 144		<20	0.07	<10	<10	20	<10	29	
JN12014- 145		<20	<0.01	<10	<10	11	<10	34	
JN12014- 146		<20	<0.01	<10	<10	7	<10	31	
JN12014- 147		<20	0.01	<10	<10	11	<10	27	
JN12014- 148		<20	0.01	<10	<10	12	<10	18	
JN12014- 149		<20	0.07	<10	<10	20	<10	33	
JN12014- 150		<20	0.04	<10	<10	15	<10	29	
JN12014- 150D		<20	0.04	<10	<10	15	<10	28	
JN12014- 151		<20	0.06	<10	<10	18	10	25	
JN12014- 152		<20	0.05	<10	<10	17	<10	25	
JN12014- 153		<20	0.04	<10	<10	17	10	24	
JN12014- 154		<20	<0.01	<10	<10	10	<10	25	
JN12014- 155		<20	<0.01	<10	<10	8	<10	13	
JN12014- 156		<20	<0.01	<10	<10	4	<10	20	
JN12014- 157		<20	0.02	<10	<10	12	10	28	
JN12014- 158		<20	0.01	<10	<10	12	20	19	
JN12014- 159		<20	<0.01	<10	<10	5	40	14	
JN12014- 160		<20	0.05	<10	<10	19	10	16	
JN12014- 160S		<20	0.11	<10	<10	59	10	63	
JN12014- 160B		<20	<0.01	<10	<10	1	<10	<2	
JN12014- 161		<20	<0.01	<10	<10	6	10	118	
JN12014- 162		<20	<0.01	<10	<10	6	40	24	
JN12014- 163		<20	0.02	<10	<10	10	10	16	
JN12014- 164		<20	0.01	<10	10	7	10	16	
JN12014- 165		<20	<0.01	<10	<10	7	10	24	
JN12014- 166		<20	0.04	<10	<10	16	30	25	
JN12014- 167		<20	0.01	<10	<10	10	50	22	
JN12014- 168		<20	<0.01	<10	<10	5	150	13	
JN12014- 169		<20	<0.01	<10	<10	2	120	63	
JN12014- 170		<20	<0.01	<10	<10	3	10	11	
JN12014- 171		<20	<0.01	<10	<10	3	10	14	
JN12014- 172		<20	<0.01	<10	<10	1	260	<2	
JN12014- 173		<20	<0.01	<10	<10	4	180	7	
JN12014- 174		<20	0.01	<10	<10	11	10	16	
JN12014- 175		<20	0.01	<10	<10	7	30	12	
JN12014- 176		<20	0.01	<10	<10	9	30	13	
JN12014- 177		<20	<0.01	<10	<10	4	10	144	
JN12014- 178		<20	<0.01	<10	<10	5	<10	22	
JN12014- 179		<20	<0.01	<10	<10	4	<10	24	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12014- 180		2.54	0.041	0.2	1.51	19	20	30	0.7	13	0.79	<0.5	2	3	11	1.66
JN12014- 180D		<0.02	0.041	0.2	1.51	20	20	30	0.7	12	0.78	<0.5	2	4	10	1.70
JN12014- 180S		0.08	3.90	56.3	1.79	989	<10	180	<0.5	3	1.02	<0.5	9	19	93	3.49
JN12014- 180B		2.08	<0.005	<0.2	0.08	<2	<10	<10	<0.5	3	>25.0	<0.5	<1	<1	<1	0.09
JN12014- 181		3.48	0.405	1.3	0.92	480	30	50	0.8	115	1.58	<0.5	4	4	6	1.64
JN12014- 182		3.66	0.102	<0.2	1.17	6	20	50	1.1	11	2.91	<0.5	3	4	2	1.65
JN12014- 183		3.12	0.053	0.2	1.11	110	50	50	0.7	5	1.07	<0.5	3	3	6	1.55
JN12014- 184		2.96	0.063	0.2	0.69	56	40	40	0.6	3	0.87	<0.5	3	3	4	1.73
JN12014- 185		2.38	0.045	<0.2	0.71	36	50	40	0.6	4	1.11	<0.5	4	3	2	1.91
JN12014- 186		1.02	0.028	0.3	0.61	25	30	40	<0.5	5	0.96	<0.5	3	3	1	0.93
JN12014- 187		0.94	0.040	<0.2	0.47	51	20	40	<0.5	2	1.17	<0.5	4	3	3	1.02
JN12014- 188		1.22	0.016	0.2	0.65	10	30	50	0.5	2	0.79	<0.5	3	3	<1	0.99
JN12014- 189		2.28	0.084	0.7	0.79	90	30	60	0.5	11	0.97	<0.5	3	4	11	1.36
JN12014- 190		2.14	0.067	0.6	0.60	53	20	50	0.5	2	1.38	0.8	4	3	12	1.44
JN12014- 191		0.76	0.480	0.6	0.90	239	30	50	0.7	7	0.27	<0.5	11	7	14	4.98
JN12014- 192		0.86	1.925	5.7	0.81	2380	40	30	0.5	252	0.15	1.4	27	11	75	13.5
JN12014- 193		2.98	0.700	0.3	0.62	25	40	30	1.0	63	0.40	<0.5	5	18	11	11.20
JN12014- 194		2.16	1.860	0.4	1.07	16	10	10	<0.5	48	0.16	<0.5	6	19	18	15.8
JN12014- 195		2.74	0.852	0.2	1.54	33	20	20	1.1	28	0.52	<0.5	6	33	8	13.35
JN12014- 196		1.20	1.410	0.4	1.10	20	30	40	1.0	103	0.40	<0.5	6	24	20	11.70
JN12014- 197		2.40	0.995	0.5	0.45	201	20	10	<0.5	98	0.20	<0.5	4	16	17	10.85
JN12014- 198		0.72	3.12	0.5	0.46	18	20	20	0.6	100	0.26	<0.5	5	17	5	10.45
JN12014- 199		0.60	0.486	0.4	1.43	380	30	50	0.8	16	0.67	<0.5	19	13	140	8.46
JN12014- 200		0.86	0.021	<0.2	0.72	13	<10	20	<0.5	<2	1.99	<0.5	6	10	22	2.07
JN12014- 200S		0.08	4.08	58.2	1.91	1065	<10	190	<0.5	2	1.12	<0.5	10	21	107	3.68
JN12014- 200B		2.26	<0.005	<0.2	0.04	<2	<10	10	<0.5	3	>25.0	<0.5	<1	<1	<1	0.06
JN12014- 201		2.96	0.010	<0.2	1.37	21	10	120	0.8	<2	1.17	<0.5	19	13	34	4.40
JN12014- 202		2.32	<0.005	<0.2	1.85	10	10	140	0.8	<2	1.47	<0.5	19	19	39	4.50
JN12014- 203		2.36	<0.005	0.2	1.42	6	10	110	0.7	<2	1.06	<0.5	17	14	35	4.22
JN12014- 204		2.32	<0.005	<0.2	1.32	11	<10	100	0.7	<2	1.37	<0.5	12	12	23	2.90
JN12014- 205		2.20	<0.005	0.2	0.89	9	<10	50	<0.5	<2	0.86	<0.5	11	8	12	1.18
JN12014- 206		2.14	<0.005	1.5	1.07	57	<10	80	0.7	2	1.37	3.7	9	14	72	2.87
JN12014- 207		2.00	<0.005	0.4	1.42	13	<10	40	0.8	<2	10.2	<0.5	12	25	24	3.15
JN12014- 208		1.78	<0.005	<0.2	1.68	158	<10	80	1.1	<2	1.53	<0.5	24	48	41	6.17
JN12014- 209		0.94	<0.005	<0.2	2.05	162	<10	30	1.2	<2	1.60	<0.5	47	93	91	9.76
JN12014- 210		0.82	<0.005	<0.2	2.53	60	10	50	1.1	<2	0.87	<0.5	5	26	32	3.12
JN12014- 210D		<0.02	<0.005	0.2	2.64	47	<10	50	1.1	<2	0.87	<0.5	5	27	32	3.15
JN12014- 211		2.12	<0.005	<0.2	2.15	1735	10	30	0.8	<2	2.18	<0.5	34	12	14	2.31
JN12014- 212		0.68	0.008	0.5	0.85	2870	10	50	<0.5	2	1.16	<0.5	46	11	242	3.19
JN12014- 213		1.56	<0.005	0.7	0.72	240	<10	50	0.5	2	1.16	<0.5	14	8	433	6.90

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12014- 180		<10	1	0.39	20	0.19	281	13	0.01	<1	370	19	0.64	9	2	43
JN12014- 180D		<10	<1	0.39	20	0.19	280	13	0.01	<1	360	19	0.66	8	2	44
JN12014- 180S		10	<1	0.26	10	0.77	455	7	0.21	11	580	7	0.12	15	3	87
JN12014- 180B		<10	<1	0.01	<10	1.72	28	<1	0.01	<1	60	<2	0.08	<2	<1	5240
JN12014- 181		<10	<1	0.46	10	0.21	334	24	0.03	<1	390	70	0.67	22	2	81
JN12014- 182		<10	<1	0.44	20	0.31	351	3	0.02	<1	400	13	0.11	3	3	147
JN12014- 183		<10	<1	0.54	10	0.21	350	14	0.01	<1	380	25	0.71	13	2	50
JN12014- 184		<10	<1	0.43	10	0.16	261	29	0.01	<1	380	20	1.13	14	2	42
JN12014- 185		<10	<1	0.47	10	0.22	347	2	0.01	<1	380	19	0.89	11	2	57
JN12014- 186		<10	<1	0.40	10	0.18	282	218	0.01	<1	320	10	0.15	6	2	45
JN12014- 187		<10	<1	0.34	20	0.21	377	1	0.01	<1	420	16	0.15	8	2	50
JN12014- 188		<10	<1	0.42	10	0.15	311	485	0.01	<1	350	4	0.43	3	2	38
JN12014- 189		<10	<1	0.51	10	0.19	517	<1	0.01	<1	410	22	0.71	15	2	43
JN12014- 190		<10	<1	0.40	10	0.26	946	6	0.01	<1	430	25	0.46	15	2	54
JN12014- 191		<10	<1	0.46	10	0.06	216	82	0.01	2	280	26	5.36	27	1	32
JN12014- 192		10	<1	0.37	<10	0.07	594	11	0.01	8	130	168	>10.0	112	1	16
JN12014- 193		10	<1	0.31	<10	0.32	3110	12	0.01	3	220	6	3.15	15	3	16
JN12014- 194		10	<1	0.08	20	0.10	1265	<1	0.01	2	180	7	>10.0	34	2	5
JN12014- 195		10	<1	0.14	20	0.41	4570	<1	0.01	6	200	4	6.79	27	6	12
JN12014- 196		10	<1	0.35	10	0.42	3890	1	0.01	9	210	12	3.38	11	6	17
JN12014- 197		<10	<1	0.16	<10	0.11	1550	<1	0.01	1	230	8	9.16	33	2	8
JN12014- 198		10	<1	0.16	<10	0.21	2290	<1	0.01	3	270	8	4.36	22	3	9
JN12014- 199		10	<1	0.45	<10	0.16	145	<1	0.01	27	470	17	>10.0	31	3	50
JN12014- 200		<10	<1	0.12	10	0.72	517	<1	0.01	8	330	6	0.17	<2	3	103
JN12014- 200S		10	<1	0.27	10	0.83	509	9	0.23	13	600	9	0.13	15	3	94
JN12014- 200B		<10	1	0.01	<10	2.08	25	<1	0.01	<1	60	<2	0.08	<2	<1	5030
JN12014- 201		<10	<1	0.55	20	0.93	633	<1	0.03	32	1120	17	0.66	<2	4	93
JN12014- 202		<10	<1	0.65	20	0.92	694	<1	0.04	34	2280	16	0.40	<2	4	129
JN12014- 203		<10	<1	0.54	20	0.93	662	<1	0.03	34	180	26	0.32	<2	3	61
JN12014- 204		<10	<1	0.47	20	0.64	426	<1	0.02	22	270	23	0.27	<2	4	53
JN12014- 205		<10	<1	0.26	10	0.20	150	<1	0.01	7	170	32	0.26	<2	2	25
JN12014- 206		<10	<1	0.45	20	0.35	321	<1	0.02	21	290	179	1.33	2	4	42
JN12014- 207		<10	<1	0.25	40	0.15	760	<1	0.01	26	710	62	0.57	2	7	249
JN12014- 208		<10	1	0.38	30	0.50	1400	1	0.02	62	1450	8	0.82	6	14	103
JN12014- 209		10	<1	0.13	40	0.48	2770	3	0.02	84	3900	9	1.27	5	18	167
JN12014- 210		10	1	0.58	40	0.33	715	<1	0.02	24	700	28	0.24	<2	6	25
JN12014- 210D		10	<1	0.58	50	0.33	726	<1	0.02	24	1000	31	0.24	<2	6	28
JN12014- 211		<10	<1	0.42	40	0.59	440	1	0.01	37	450	28	0.28	<2	4	68
JN12014- 212		<10	<1	0.42	10	0.30	249	1	0.01	23	270	16	1.63	4	2	47
JN12014- 213		<10	<1	0.35	10	0.62	340	<1	0.01	38	260	5	3.53	3	2	46

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12014- 180		<20	<0.01	<10	<10	4	<10	18	
JN12014- 180D		<20	<0.01	<10	<10	4	<10	19	
JN12014- 180S		<20	0.14	<10	<10	87	<10	47	
JN12014- 180B		<20	<0.01	<10	20	1	<10	<2	
JN12014- 181		<20	<0.01	<10	<10	4	140	52	
JN12014- 182		<20	<0.01	<10	<10	5	20	21	
JN12014- 183		<20	<0.01	<10	<10	4	<10	60	
JN12014- 184		<20	<0.01	<10	<10	3	<10	17	
JN12014- 185		<20	<0.01	<10	<10	3	<10	17	
JN12014- 186		<20	<0.01	<10	<10	3	<10	12	
JN12014- 187		<20	<0.01	<10	<10	2	<10	20	
JN12014- 188		<20	<0.01	<10	<10	2	<10	15	
JN12014- 189		<20	<0.01	<10	<10	3	<10	44	
JN12014- 190		<20	<0.01	<10	<10	3	<10	123	
JN12014- 191		<20	<0.01	<10	<10	6	<10	88	
JN12014- 192		<20	<0.01	10	<10	9	<10	189	
JN12014- 193		<20	<0.01	<10	<10	19	<10	75	
JN12014- 194		<20	<0.01	10	<10	21	10	71	
JN12014- 195		<20	<0.01	<10	10	44	10	61	
JN12014- 196		<20	<0.01	<10	<10	28	10	99	
JN12014- 197		<20	<0.01	<10	<10	9	<10	45	
JN12014- 198		<20	<0.01	10	<10	10	<10	72	
JN12014- 199		<20	<0.01	10	<10	13	<10	60	
JN12014- 200		<20	<0.01	<10	<10	6	<10	27	
JN12014- 200S		<20	0.15	<10	<10	94	<10	53	
JN12014- 200B		<20	<0.01	<10	10	1	<10	<2	
JN12014- 201		<20	<0.01	<10	<10	16	<10	89	
JN12014- 202		<20	<0.01	10	<10	23	<10	113	
JN12014- 203		<20	<0.01	<10	<10	17	<10	109	
JN12014- 204		<20	<0.01	<10	<10	14	<10	72	
JN12014- 205		<20	<0.01	<10	<10	6	<10	19	
JN12014- 206		<20	<0.01	<10	<10	13	<10	534	
JN12014- 207		<20	<0.01	<10	<10	35	<10	104	
JN12014- 208		20	0.01	<10	<10	63	10	57	
JN12014- 209		<20	0.01	10	<10	136	<10	71	
JN12014- 210		20	<0.01	<10	<10	32	<10	60	
JN12014- 210D		20	<0.01	<10	<10	34	<10	61	
JN12014- 211		20	<0.01	10	<10	12	<10	33	
JN12014- 212		<20	<0.01	<10	<10	7	<10	24	
JN12014- 213		<20	<0.01	<10	<10	9	<10	31	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12014- 214		1.50	<0.005	0.2	1.16	77	10	40	<0.5	2	0.90	<0.5	7	10	178	4.02
JN12014- 215		1.18	0.010	<0.2	1.14	1880	10	100	0.6	4	0.48	<0.5	14	12	39	3.47
JN12014- 216		2.30	0.036	0.2	1.04	44	10	40	<0.5	<2	0.07	<0.5	6	11	20	4.32
JN12014- 217		2.32	<0.005	<0.2	1.14	8	<10	80	<0.5	<2	0.11	<0.5	6	15	27	3.15

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Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12014- 214		<10	<1	0.38	20	0.45	454	<1	0.01	43	140	3	1.54	3	2	36
JN12014- 215		<10	<1	0.63	20	0.19	290	<1	0.02	21	220	7	2.30	12	2	17
JN12014- 216		<10	<1	0.28	10	0.09	488	<1	0.01	15	130	5	3.67	46	2	4
JN12014- 217		<10	<1	0.42	30	0.24	887	<1	0.01	23	210	4	0.91	22	3	7

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Finalized Date: 6- SEP- 2012
Account: TELOEX

Project: JN12- 011

CERTIFICATE OF ANALYSIS WH12194523

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12014- 214		<20	<0.01	<10	<10	7	<10	25	
JN12014- 215		<20	<0.01	<10	<10	9	<10	18	
JN12014- 216		<20	<0.01	<10	<10	7	<10	19	
JN12014- 217		20	<0.01	<10	<10	11	<10	41	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 17- SEP- 2012
Account: TELOEX

CERTIFICATE VA12210488

Project:

P.O. No.:

This report is for 2 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 12- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 22Y	Split Sample - Boyd Rotary Splitter
SCR- 21	Screen to - 100 to 106 um
FND- 03	Find Reject for Addn Analysis
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 to 106 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
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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.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: TERRALOGIC EXPLORATION SERVICES INC.
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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 17- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS VA12210488

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
JN12014- 032		10.90	5.12	11.55	0.148	28.91	271.1	11.35	11.70
JN12014- 101		7.86	9.70	7.75	0.047	4.85	78.9	7.90	7.60

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Finalized Date: 23- AUG- 2012
Account: TELOEX

CERTIFICATE WH12188731

Project:

P.O. No.: JN12- 010

This report is for 17 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
BAG- 01	Bulk Master for Storage
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%< 75um
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%< 75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
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SUITE 200
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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.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 23- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188731

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12015- 001		2.10	0.064	0.2	0.45	45	<10	10	<0.5	<2	0.03	<0.5	2	28	8	1.13
JN12015- 002		2.12	0.212	0.3	0.37	32	<10	<10	<0.5	2	0.03	<0.5	4	35	9	1.85
JN12015- 003		0.92	0.026	<0.2	0.44	27	<10	<10	<0.5	<2	0.09	<0.5	5	40	12	2.16
JN12015- 004		0.80	0.010	<0.2	0.57	26	<10	<10	<0.5	<2	0.06	<0.5	6	25	8	1.58
JN12015- 005		0.68	0.018	0.4	0.67	136	<10	<10	<0.5	3	0.08	<0.5	6	35	5	3.11
JN12015- 006		2.02	0.055	<0.2	0.45	23	<10	10	<0.5	<2	0.03	<0.5	5	30	8	2.81
JN12015- 007		0.62	0.009	0.2	0.53	42	10	10	<0.5	2	0.07	0.5	4	28	11	1.63
JN12015- 008		0.48	0.295	2.4	0.35	9480	<10	30	<0.5	<2	0.03	<0.5	17	25	65	4.89
JN12015- 009		1.06	0.052	1.0	0.35	624	<10	30	<0.5	<2	0.04	1.2	8	28	70	1.91
JN12015- 010		1.78	<0.005	0.2	0.90	46	<10	70	0.5	<2	0.07	2.8	8	23	46	1.64
JN12015- 011		2.40	<0.005	0.2	0.48	31	<10	20	<0.5	<2	0.03	<0.5	2	32	10	0.99
JN12015- 012		1.26	0.020	<0.2	0.49	17	<10	10	<0.5	<2	0.03	<0.5	4	35	8	2.30
JN12015- 013		1.42	0.011	0.2	0.88	31	<10	10	<0.5	<2	0.07	<0.5	5	31	41	1.46
JN12015- 014		2.20	0.019	<0.2	0.56	18	<10	10	<0.5	<2	0.04	<0.5	5	31	26	2.67
JN12015- 014S		0.08	0.950	0.6	1.74	1345	20	100	<0.5	24	3.51	<0.5	45	24	129	3.60
JN12015- 014B		1.76	<0.005	0.9	0.04	3	<10	<10	<0.5	<2	>25.0	<0.5	2	1	<1	0.04
JN12015- 014D		<0.02	<0.005	0.9	0.03	2	<10	<10	<0.5	<2	>25.0	<0.5	1	<1	<1	0.04

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 23- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188731

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12015-001		<10	<1	0.01	<10	0.01	57	3	0.01	7	30	10	0.68	14	<1	3
JN12015-002		<10	1	<0.01	<10	<0.01	42	4	<0.01	9	40	7	1.63	27	<1	2
JN12015-003		<10	<1	0.01	10	0.03	514	4	<0.01	12	130	6	0.30	4	5	6
JN12015-004		<10	<1	0.01	10	0.02	317	8	<0.01	13	120	5	0.03	3	2	4
JN12015-005		<10	<1	0.01	10	0.04	420	4	0.01	11	60	9	2.18	4	1	6
JN12015-006		<10	<1	0.05	10	0.01	47	6	<0.01	11	70	6	2.65	13	<1	6
JN12015-007		<10	<1	0.09	10	0.02	106	3	0.01	9	190	10	1.12	4	1	8
JN12015-008		<10	<1	0.17	10	0.02	48	3	0.01	14	110	72	4.71	27	<1	15
JN12015-009		<10	<1	0.19	10	0.06	129	3	0.01	16	130	18	0.91	7	1	9
JN12015-010		<10	1	0.41	10	0.10	111	3	0.01	19	250	24	0.49	6	2	7
JN12015-011		<10	<1	0.11	10	0.02	142	4	0.01	3	70	34	0.29	<2	1	5
JN12015-012		<10	<1	0.04	10	0.01	51	4	0.01	8	90	7	2.09	8	<1	4
JN12015-013		<10	<1	0.08	10	0.02	102	4	0.01	11	240	7	0.96	3	1	4
JN12015-014		<10	<1	0.03	10	0.02	138	3	0.01	13	110	7	2.31	6	1	4
JN12015-014S		<10	1	0.18	10	0.60	759	10	0.18	23	790	10	0.31	5	3	107
JN12015-014B		<10	<1	<0.01	<10	1.86	26	<1	0.02	1	40	2	0.06	<2	<1	4980
JN12015-014D		<10	1	<0.01	<10	1.85	25	<1	0.01	<1	40	<2	0.06	2	<1	4870

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Finalized Date: 23- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12188731

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
JN12015- 001		<20	<0.01	<10	<10	4	<10	19
JN12015- 002		<20	<0.01	<10	<10	2	<10	25
JN12015- 003		<20	<0.01	<10	<10	16	<10	60
JN12015- 004		<20	<0.01	<10	<10	14	<10	58
JN12015- 005		<20	<0.01	<10	<10	10	<10	43
JN12015- 006		<20	<0.01	<10	<10	3	<10	20
JN12015- 007		<20	<0.01	<10	<10	5	<10	43
JN12015- 008		<20	<0.01	<10	<10	3	<10	26
JN12015- 009		<20	<0.01	<10	<10	4	<10	72
JN12015- 010		<20	<0.01	<10	<10	8	<10	170
JN12015- 011		<20	<0.01	<10	<10	5	<10	46
JN12015- 012		<20	<0.01	<10	<10	4	<10	29
JN12015- 013		<20	<0.01	<10	<10	8	<10	27
JN12015- 014		<20	<0.01	<10	<10	6	<10	37
JN12015- 014S		<20	0.10	<10	<10	58	10	60
JN12015- 014B		20	<0.01	<10	<10	<1	<10	2
JN12015- 014D		20	<0.01	<10	<10	<1	<10	<2

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Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE WH12194524

Project:

P.O. No.: JN12- 012

This report is for 206 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
BAG- 01	Bulk Master for Storage
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%<75um
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
JN12016- 001		3.44	0.025		<0.2	2.23	2	<10	10	1.4	3	3.14	<0.5	1	18	14
JN12016- 002		3.66	0.006		<0.2	0.43	2	<10	10	<0.5	<2	0.98	<0.5	1	22	7
JN12016- 003		3.70	<0.005		<0.2	0.34	<2	<10	<10	<0.5	<2	0.71	<0.5	2	26	4
JN12016- 004		2.20	<0.005		<0.2	0.36	2	<10	10	<0.5	<2	0.76	<0.5	<1	23	15
JN12016- 005		2.70	<0.005		<0.2	1.44	14	<10	50	0.9	<2	0.60	<0.5	9	37	53
JN12016- 006		0.62	0.399		17.2	1.24	618	10	60	1.4	1210	2.30	3.5	9	19	82
JN12016- 007		2.08	<0.005		<0.2	1.54	12	10	60	1.6	22	2.54	<0.5	6	31	92
JN12016- 008		3.02	<0.005		<0.2	2.91	8	<10	160	0.9	<2	0.98	<0.5	10	51	45
JN12016- 009		3.28	<0.005		<0.2	2.58	7	10	60	1.5	<2	3.40	<0.5	8	29	41
JN12016- 010		3.44	<0.005		<0.2	3.26	12	10	70	1.5	<2	3.17	<0.5	6	38	39
JN12016- 011		3.60	<0.005		<0.2	6.63	4	10	40	1.5	<2	5.19	<0.5	5	31	14
JN12016- 012		3.18	<0.005		<0.2	7.52	2	10	30	1.8	<2	6.77	<0.5	2	25	3
JN12016- 013		4.16	<0.005		<0.2	5.94	3	10	<10	1.9	4	6.34	<0.5	1	16	1
JN12016- 014		1.70	<0.005		<0.2	7.06	3	<10	40	1.7	<2	5.75	<0.5	5	38	22
JN12016- 015		1.86	<0.005		<0.2	4.42	10	<10	40	2.1	<2	4.18	<0.5	7	39	28
JN12016- 016		1.14	0.054		87.6	1.80	7	<10	20	1.9	215	7.9	246	12	15	1090
JN12016- 017		3.66	0.006		0.2	2.77	5	<10	10	1.2	<2	6.12	<0.5	2	15	13
JN12016- 018		4.16	0.094		0.2	1.17	4	<10	<10	1.0	23	5.06	<0.5	3	8	66
JN12016- 019		4.46	0.058		<0.2	1.34	5	<10	<10	1.1	10	4.37	<0.5	1	10	1
JN12016- 020		3.90	<0.005		<0.2	1.14	<2	<10	<10	0.7	<2	3.77	<0.5	1	8	1
JN12016- 020S		0.08	3.93		56.0	1.81	1020	<10	180	<0.5	2	1.03	<0.5	10	20	98
JN12016- 020B		2.08	<0.005		<0.2	0.02	<2	<10	10	<0.5	3	>25.0	<0.5	<1	<1	1
JN12016- 021		4.52	0.006		<0.2	1.44	<2	<10	<10	1.3	3	3.81	<0.5	<1	9	1
JN12016- 022		3.86	0.007		<0.2	1.96	2	<10	<10	1.5	<2	3.15	<0.5	1	8	<1
JN12016- 023		4.30	<0.005		<0.2	0.73	3	<10	<10	0.8	<2	1.35	<0.5	1	3	<1
JN12016- 024		4.16	<0.005		<0.2	1.29	3	<10	<10	1.2	<2	3.33	<0.5	1	8	1
JN12016- 025		4.16	0.040		<0.2	0.16	3	<10	<10	0.6	4	1.63	<0.5	2	1	<1
JN12016- 026		4.26	<0.005		<0.2	0.16	4	20	<10	<0.5	<2	2.00	<0.5	1	1	<1
JN12016- 027		4.14	0.061		<0.2	0.21	<2	<10	<10	0.5	18	1.65	<0.5	1	2	1
JN12016- 028		4.20	0.042		<0.2	0.27	4	<10	<10	<0.5	9	1.92	<0.5	1	1	1
JN12016- 029		4.42	0.026		<0.2	0.73	<2	<10	10	0.8	6	2.02	<0.5	1	4	<1
JN12016- 030		3.66	0.033		<0.2	0.40	<2	<10	<10	0.5	7	1.87	<0.5	1	2	3
JN12016- 030D		<0.02	0.024		<0.2	0.39	2	<10	<10	0.5	7	1.75	<0.5	1	2	2
JN12016- 031		4.20	0.280		<0.2	0.26	<2	20	10	0.7	59	3.19	<0.5	1	2	1
JN12016- 032		2.24	0.191		<0.2	0.36	<2	<10	<10	0.8	44	1.80	<0.5	1	2	1
JN12016- 033		2.12	0.039		<0.2	0.35	<2	<10	30	1.7	8	3.35	<0.5	2	2	1
JN12016- 034		2.70	0.218		0.2	0.36	3	<10	30	5.3	27	8.2	<0.5	6	8	2
JN12016- 035		1.98	0.009		0.2	0.57	<2	<10	30	5.2	4	5.88	0.8	12	11	1
JN12016- 036		1.68	0.230		0.2	0.40	<2	<10	30	6.4	78	3.61	0.5	16	9	2
JN12016- 037		2.14	0.094		<0.2	0.75	3	<10	50	1.0	13	1.92	<0.5	2	6	1

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CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12016-001		1.58	10	<1	0.05	20	0.12	612	7	0.16	3	450	<2	0.17	<2	1
JN12016-002		1.25	<10	<1	0.05	10	0.17	336	6	0.05	2	70	2	0.10	2	1
JN12016-003		0.74	<10	<1	0.04	10	0.19	189	3	0.04	3	70	2	0.05	<2	1
JN12016-004		1.06	<10	<1	0.05	10	0.18	188	1	0.06	2	100	2	0.14	<2	1
JN12016-005		2.29	10	<1	0.64	10	0.66	213	13	0.05	36	420	4	0.60	2	6
JN12016-006		3.25	10	<1	0.61	20	0.58	921	27	0.03	26	210	949	1.26	66	3
JN12016-007		3.77	10	<1	0.75	10	0.97	973	20	0.04	34	560	7	1.26	3	6
JN12016-008		3.37	10	<1	1.31	10	1.03	317	2	0.09	37	490	2	0.54	2	7
JN12016-009		3.55	10	<1	0.48	20	0.74	925	12	0.09	30	780	2	0.76	3	4
JN12016-010		3.21	10	<1	0.72	20	0.77	572	9	0.15	29	730	2	0.46	2	6
JN12016-011		1.34	20	<1	0.28	30	0.34	209	14	0.35	15	450	2	0.10	<2	3
JN12016-012		1.55	20	<1	0.12	30	0.23	501	26	0.24	11	370	<2	0.03	2	2
JN12016-013		1.27	10	<1	0.02	20	0.14	624	5	0.11	6	600	<2	0.01	<2	2
JN12016-014		1.90	20	<1	0.31	20	0.56	408	23	0.32	22	670	3	0.24	3	5
JN12016-015		2.31	10	<1	0.34	20	0.62	809	20	0.19	26	200	8	0.38	<2	5
JN12016-016		12.05	10	1	0.20	10	0.23	3610	2	0.02	8	110	6700	7.53	6	3
JN12016-017		4.79	10	<1	0.04	10	0.13	1375	4	0.05	5	190	11	0.10	<2	2
JN12016-018		4.31	10	<1	0.01	<10	0.07	1400	5	<0.01	<1	320	11	0.39	<2	1
JN12016-019		2.65	10	<1	0.01	10	0.04	1060	6	0.02	<1	260	<2	<0.01	<2	1
JN12016-020		2.43	10	<1	<0.01	<10	0.03	981	12	0.01	<1	100	<2	<0.01	<2	1
JN12016-020S		3.39	<10	<1	0.25	10	0.76	472	9	0.21	14	590	7	0.12	14	3
JN12016-020B		0.04	<10	<1	<0.01	<10	1.72	22	<1	0.01	1	60	<2	0.05	<2	<1
JN12016-021		2.12	10	<1	<0.01	10	0.05	941	19	0.03	1	190	2	<0.01	<2	1
JN12016-022		1.34	10	<1	0.01	10	0.05	626	95	0.05	1	150	<2	0.01	<2	1
JN12016-023		0.99	<10	<1	0.01	<10	0.03	482	38	0.03	<1	60	<2	<0.01	<2	<1
JN12016-024		2.22	10	<1	0.03	<10	0.08	1160	19	0.03	1	120	4	0.10	<2	1
JN12016-025		1.67	<10	<1	<0.01	<10	0.07	894	37	0.01	<1	400	<2	0.05	2	<1
JN12016-026		1.32	<10	<1	<0.01	<10	0.03	1120	71	<0.01	<1	170	<2	0.02	<2	<1
JN12016-027		1.39	<10	<1	<0.01	<10	0.03	933	34	<0.01	<1	150	<2	<0.01	<2	<1
JN12016-028		1.73	<10	<1	<0.01	<10	0.05	1080	1	0.01	1	160	<2	0.01	<2	<1
JN12016-029		1.56	10	<1	0.01	<10	0.02	794	4	0.03	<1	160	<2	0.02	<2	<1
JN12016-030		1.63	10	<1	<0.01	<10	0.02	880	<1	0.01	<1	170	<2	<0.01	<2	<1
JN12016-030D		1.55	10	<1	<0.01	<10	0.02	810	1	0.01	<1	170	<2	<0.01	<2	<1
JN12016-031		2.40	<10	<1	0.01	<10	0.04	1700	2	0.01	<1	280	<2	0.01	<2	<1
JN12016-032		2.13	10	<1	0.01	<10	0.02	1095	5	0.01	<1	320	<2	<0.01	2	<1
JN12016-033		2.80	<10	<1	0.02	<10	0.05	1765	<1	0.02	<1	190	<2	0.01	<2	<1
JN12016-034		18.8	10	<1	0.03	<10	0.33	10500	3	0.01	<1	380	2	<0.01	<2	1
JN12016-035		22.4	10	<1	0.01	<10	0.54	11200	9	0.01	<1	230	4	0.01	<2	2
JN12016-036		26.0	10	<1	0.01	<10	0.68	14400	<1	0.01	2	230	2	0.06	<2	2
JN12016-037		2.15	10	<1	0.02	<10	0.05	1170	1	0.03	<1	120	<2	<0.01	<2	<1

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
JN12016- 001		108	<20	0.07	<10	<10	10	180	15	
JN12016- 002		24	<20	0.03	<10	<10	8	<10	14	
JN12016- 003		15	<20	0.04	<10	<10	11	<10	8	
JN12016- 004		16	<20	0.05	<10	<10	8	<10	8	
JN12016- 005		16	20	0.05	<10	<10	35	<10	39	
JN12016- 006		46	<20	0.02	<10	<10	16	10	348	
JN12016- 007		109	20	0.04	<10	<10	31	<10	27	
JN12016- 008		70	20	0.11	<10	<10	48	<10	28	
JN12016- 009		92	20	0.04	<10	<10	30	10	36	
JN12016- 010		134	20	0.10	<10	<10	39	10	34	
JN12016- 011		568	20	0.16	<10	<10	34	10	30	
JN12016- 012		530	20	0.17	<10	<10	29	<10	26	
JN12016- 013		342	<20	0.12	<10	<10	18	10	14	
JN12016- 014		530	20	0.17	<10	<10	47	<10	37	
JN12016- 015		245	20	0.10	<10	<10	47	10	52	
JN12016- 016		35	<20	0.04	<10	<10	23	20	>10000	2.69
JN12016- 017		126	<20	0.07	<10	<10	21	10	72	
JN12016- 018		8	<20	0.04	<10	<10	10	50	63	
JN12016- 019		10	<20	0.06	<10	<10	12	90	18	
JN12016- 020		14	<20	0.05	<10	<10	9	70	19	
JN12016- 020S		92	<20	0.14	<10	<10	90	<10	51	
JN12016- 020B		5420	<20	<0.01	<10	<10	1	<10	<2	
JN12016- 021		41	<20	0.06	<10	<10	10	100	19	
JN12016- 022		135	<20	0.07	<10	<10	8	80	16	
JN12016- 023		36	<20	0.03	<10	<10	3	180	15	
JN12016- 024		56	<20	0.03	<10	<10	8	70	54	
JN12016- 025		11	<20	<0.01	<10	<10	1	90	20	
JN12016- 026		6	<20	<0.01	<10	<10	1	350	20	
JN12016- 027		4	<20	0.01	<10	<10	1	150	19	
JN12016- 028		7	<20	0.01	<10	<10	2	20	21	
JN12016- 029		64	<20	0.03	<10	<10	4	30	18	
JN12016- 030		9	<20	0.01	<10	<10	2	40	23	
JN12016- 030D		9	<20	0.01	<10	<10	2	50	22	
JN12016- 031		11	<20	0.01	<10	<10	2	30	26	
JN12016- 032		8	<20	0.01	<10	<10	2	30	23	
JN12016- 033		24	<20	0.01	<10	<10	2	10	27	
JN12016- 034		31	<20	<0.01	<10	<10	9	10	126	
JN12016- 035		26	<20	<0.01	<10	<10	13	<10	156	
JN12016- 036		26	<20	<0.01	<10	<10	13	30	180	
JN12016- 037		53	<20	0.03	<10	<10	5	20	22	

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Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
JN12016- 038		4.26	0.057		<0.2	2.68	<2	<10	50	1.9	10	6.71	<0.5	2	15	1
JN12016- 039		0.38	0.009		0.6	2.87	2	10	20	2.4	3	10.9	<0.5	4	30	3
JN12016- 040		2.60	0.020		0.6	0.38	6	<10	30	4.9	2	2.83	<0.5	19	13	96
JN12016- 040S		0.08	0.930		0.4	1.82	1420	20	100	<0.5	28	3.97	<0.5	51	27	142
JN12016- 040B		1.96	<0.005		<0.2	0.02	2	<10	10	<0.5	4	>25.0	<0.5	<1	<1	1
JN12016- 041		2.36	0.008		0.2	0.43	3	<10	20	1.8	3	8.4	<0.5	5	6	71
JN12016- 042		3.30	0.011		<0.2	1.02	<2	10	10	1.4	<2	6.14	<0.5	3	8	25
JN12016- 043		3.20	0.014		<0.2	1.18	3	10	10	1.8	<2	6.69	<0.5	3	7	19
JN12016- 044		3.44	0.010		<0.2	4.22	<2	10	20	2.2	<2	4.90	<0.5	1	8	3
JN12016- 045		1.32	<0.005		<0.2	1.51	6	10	30	2.1	<2	2.28	<0.5	2	3	<1
JN12016- 046		2.96	0.053		<0.2	2.96	<2	<10	<10	2.1	13	3.07	<0.5	1	1	<1
JN12016- 047		1.94	0.007		<0.2	0.90	<2	<10	50	1.0	<2	1.34	<0.5	1	7	<1
JN12016- 048		3.74	0.049		<0.2	2.04	<2	<10	<10	1.1	12	2.48	<0.5	1	3	<1
JN12016- 049		4.04	0.013		<0.2	0.77	2	10	<10	0.5	2	1.25	<0.5	1	2	<1
JN12016- 050		3.30	<0.005		<0.2	0.83	<2	<10	<10	<0.5	<2	1.28	<0.5	1	1	<1
JN12016- 051		2.94	0.010		<0.2	0.74	<2	<10	<10	0.5	<2	1.25	<0.5	1	1	<1
JN12016- 052		1.86	0.015		<0.2	1.04	<2	<10	<10	0.6	<2	1.43	<0.5	<1	2	<1
JN12016- 053		0.84	0.020		0.3	0.57	<2	<10	40	6.5	<2	2.31	0.7	9	16	1
JN12016- 054		1.06	0.005		0.4	0.34	<2	<10	30	5.1	<2	2.57	1.3	12	17	<1
JN12016- 055		1.18	0.084		0.3	0.26	<2	<10	30	4.7	5	2.11	0.6	15	13	1
JN12016- 056		2.58	0.313		0.4	0.23	<2	<10	30	5.3	43	2.70	0.8	14	9	<1
JN12016- 057		0.44	0.029		0.3	0.34	<2	<10	40	4.9	<2	2.45	0.6	13	8	<1
JN12016- 058		1.12	0.088		0.3	0.26	<2	<10	30	5.6	<2	2.71	0.8	11	13	1
JN12016- 059		3.96	0.592		0.3	0.71	3	<10	30	3.6	45	2.17	0.5	14	20	<1
JN12016- 060		0.94	0.072		0.3	0.51	<2	<10	30	5.0	<2	2.43	0.9	13	17	<1
JN12016- 060D		<0.02	0.086		0.3	0.47	<2	<10	30	5.1	<2	2.44	0.7	12	17	<1
JN12016- 060S		0.08	4.24		58.7	1.81	1040	<10	190	<0.5	<2	1.02	<0.5	10	20	103
JN12016- 060B		2.78	<0.005		<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1
JN12016- 061		1.18	0.024		0.2	0.27	<2	<10	30	2.7	6	2.17	0.8	11	9	100
JN12016- 062		0.64	0.041		0.3	0.35	<2	<10	20	2.9	4	1.82	<0.5	11	12	105
JN12016- 063		2.34	0.136		0.2	0.18	30	<10	20	3.1	13	1.87	<0.5	13	9	33
JN12016- 064		2.18	0.143		0.2	0.31	<2	<10	20	4.7	4	2.14	0.8	11	16	1
JN12016- 065		1.52	0.166		0.3	0.49	<2	<10	30	3.5	24	2.20	1.0	15	18	<1
JN12016- 066		1.20	0.111		0.2	1.18	<2	<10	20	6.8	5	7.3	<0.5	8	22	6
JN12016- 067		1.64	0.008		<0.2	0.81	4	<10	20	3.5	<2	10.7	0.7	1	50	<1
JN12016- 068		2.76	0.141		0.3	0.73	8	<10	30	2.7	<2	2.20	<0.5	17	42	<1
JN12016- 069		1.74	0.020		0.3	0.61	15	<10	30	2.5	<2	1.80	<0.5	14	29	<1
JN12016- 070		1.14	4.15		0.6	0.49	5	<10	30	2.9	494	1.77	0.7	12	32	<1
JN12016- 071		1.72	0.010		0.8	0.78	6	<10	20	2.3	<2	1.70	<0.5	11	46	<1
JN12016- 072		2.52	0.030		<0.2	0.46	27	<10	20	2.9	<2	1.67	<0.5	8	33	<1

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method Analyte Units LOR	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1
JN12016- 038		4.82	10	<1	0.01	10	0.11	1945	13	0.06	2	290	<2	0.05	<2	2
JN12016- 039		11.10	10	<1	0.01	10	0.21	4290	2	0.01	2	190	<2	0.01	3	5
JN12016- 040		25.7	10	<1	0.03	<10	0.57	13650	21	0.01	3	340	13	2.16	3	2
JN12016- 040S		3.96	<10	<1	0.18	10	0.61	846	10	0.18	25	870	9	0.32	6	3
JN12016- 040B		0.12	<10	<1	<0.01	<10	1.77	57	<1	0.01	1	60	<2	0.04	<2	<1
JN12016- 041		6.96	<10	<1	0.09	<10	0.15	5490	3	0.01	1	360	14	2.60	3	1
JN12016- 042		5.51	10	<1	0.03	<10	0.12	3400	4	0.02	<1	280	5	1.23	<2	1
JN12016- 043		6.37	10	<1	0.04	<10	0.17	3460	2	0.02	1	310	3	1.26	2	1
JN12016- 044		1.99	10	<1	0.03	10	0.12	979	557	0.13	3	310	2	0.05	<2	1
JN12016- 045		2.23	10	1	0.07	<10	0.10	899	714	0.10	<1	320	4	0.05	<2	2
JN12016- 046		1.34	10	<1	0.03	<10	0.04	608	273	0.14	<1	340	3	0.03	<2	<1
JN12016- 047		1.65	<10	<1	0.10	10	0.10	472	10	0.10	<1	330	2	<0.01	<2	2
JN12016- 048		1.24	10	<1	0.03	<10	0.03	631	22	0.09	<1	370	2	0.03	<2	<1
JN12016- 049		0.79	<10	<1	0.02	<10	0.01	468	1	0.03	<1	330	<2	<0.01	<2	<1
JN12016- 050		0.79	<10	1	0.03	<10	0.01	517	1	0.04	<1	350	<2	<0.01	<2	<1
JN12016- 051		0.86	<10	<1	0.02	<10	0.01	481	1	0.03	<1	290	<2	<0.01	<2	<1
JN12016- 052		0.86	10	<1	0.04	<10	0.02	535	<1	0.05	<1	300	<2	<0.01	<2	<1
JN12016- 053		24.7	10	1	0.04	<10	0.46	15150	1	0.01	<1	480	6	<0.01	<2	2
JN12016- 054		34.2	10	<1	0.01	<10	1.05	20400	<1	0.01	<1	330	9	0.02	<2	3
JN12016- 055		28.4	10	<1	<0.01	<10	0.73	15200	6	0.01	<1	420	8	0.04	<2	4
JN12016- 056		33.4	<10	<1	<0.01	<10	0.86	18900	53	0.01	<1	240	9	0.10	<2	3
JN12016- 057		34.1	10	<1	<0.01	<10	0.79	19250	57	0.02	<1	110	8	0.12	<2	4
JN12016- 058		34.5	10	<1	<0.01	<10	0.99	19250	2	0.01	<1	260	10	0.14	<2	3
JN12016- 059		30.4	10	<1	0.01	<10	0.77	15600	8	0.01	1	290	9	0.79	<2	6
JN12016- 060		32.2	10	1	<0.01	<10	0.78	17300	<1	0.01	<1	150	8	0.29	<2	4
JN12016- 060D		31.6	10	<1	<0.01	<10	0.77	16950	<1	0.01	<1	150	8	0.28	<2	4
JN12016- 060S		3.62	<10	<1	0.26	10	0.81	509	9	0.21	13	610	7	0.12	14	3
JN12016- 060B		0.14	<10	<1	<0.01	<10	1.72	68	<1	<0.01	<1	50	<2	0.05	<2	<1
JN12016- 061		29.0	10	<1	<0.01	<10	0.74	13750	2	0.01	<1	380	7	1.26	<2	3
JN12016- 062		22.0	10	<1	0.02	<10	0.47	9360	<1	0.01	<1	100	14	2.61	<2	5
JN12016- 063		29.8	<10	1	<0.01	<10	0.62	12750	21	0.01	2	270	13	6.90	15	17
JN12016- 064		27.2	10	1	<0.01	10	0.74	14000	26	0.01	<1	270	5	0.80	<2	7
JN12016- 065		32.2	10	1	<0.01	10	0.84	16250	12	0.02	2	180	9	0.40	<2	3
JN12016- 066		15.2	10	1	0.03	20	0.29	9540	78	0.01	2	190	4	0.02	<2	6
JN12016- 067		17.4	10	<1	0.01	30	0.22	5580	3	0.01	<1	400	4	<0.01	<2	10
JN12016- 068		18.4	<10	<1	0.05	30	0.48	9080	37	0.01	18	180	3	0.26	<2	10
JN12016- 069		23.9	10	<1	0.02	10	0.57	11950	10	0.02	3	100	5	0.86	<2	9
JN12016- 070		24.8	10	<1	0.01	<10	0.65	12350	58	0.01	2	140	6	0.29	<2	9
JN12016- 071		22.1	<10	<1	0.01	20	0.52	11250	30	0.01	15	230	4	0.60	<2	13
JN12016- 072		19.1	<10	<1	0.04	10	0.62	9000	20	0.01	6	160	4	0.30	<2	9

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
JN12016- 038		225	<20	0.08	<10	<10	18	10	28	
JN12016- 039		18	<20	0.12	<10	<10	38	10	57	
JN12016- 040		25	<20	<0.01	<10	<10	17	30	268	
JN12016- 040S		120	<20	0.12	<10	<10	67	10	67	
JN12016- 040B		5350	<20	<0.01	<10	<10	1	<10	<2	
JN12016- 041		176	<20	0.01	<10	<10	5	<10	27	
JN12016- 042		96	<20	0.02	<10	<10	9	20	31	
JN12016- 043		87	<20	0.01	<10	<10	9	<10	34	
JN12016- 044		282	<20	0.06	<10	10	9	460	27	
JN12016- 045		48	20	0.04	<10	10	7	10	21	
JN12016- 046		61	<20	0.03	<10	<10	2	10	20	
JN12016- 047		45	<20	0.05	<10	<10	9	<10	14	
JN12016- 048		42	<20	0.03	<10	<10	3	10	15	
JN12016- 049		34	<20	0.01	<10	<10	1	10	12	
JN12016- 050		31	<20	0.01	<10	<10	1	<10	14	
JN12016- 051		26	<20	0.01	<10	<10	1	10	13	
JN12016- 052		20	<20	0.03	<10	<10	2	<10	14	
JN12016- 053		25	<20	0.01	<10	<10	17	<10	215	
JN12016- 054		17	<20	<0.01	<10	<10	21	10	249	
JN12016- 055		16	<20	<0.01	<10	<10	17	30	213	
JN12016- 056		20	<20	<0.01	<10	<10	14	20	229	
JN12016- 057		21	<20	<0.01	<10	<10	16	20	215	
JN12016- 058		18	<20	<0.01	<10	<10	19	10	239	
JN12016- 059		16	<20	<0.01	<10	<10	29	10	195	
JN12016- 060		19	<20	0.01	<10	<10	23	10	185	
JN12016- 060D		18	<20	0.01	<10	<10	23	10	184	
JN12016- 060S		91	<20	0.14	<10	<10	92	<10	52	
JN12016- 060B		5420	<20	<0.01	<10	<10	1	<10	<2	
JN12016- 061		39	<20	<0.01	<10	<10	12	10	170	
JN12016- 062		28	<20	<0.01	<10	<10	16	10	145	
JN12016- 063		16	<20	<0.01	<10	<10	47	20	145	
JN12016- 064		16	<20	<0.01	<10	<10	25	10	204	
JN12016- 065		19	<20	<0.01	<10	<10	24	20	189	
JN12016- 066		40	<20	<0.01	<10	<10	25	10	132	
JN12016- 067		23	<20	0.04	<10	<10	77	90	69	
JN12016- 068		18	<20	<0.01	<10	<10	64	10	126	
JN12016- 069		19	<20	<0.01	<10	<10	40	10	135	
JN12016- 070		14	<20	<0.01	<10	<10	37	50	217	
JN12016- 071		15	<20	<0.01	<10	<10	73	10	203	
JN12016- 072		14	<20	<0.01	<10	<10	43	20	138	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
JN12016-073		2.08	0.117		<0.2	0.34	<2	<10	30	3.7	10	2.08	0.5	8	14	<1
JN12016-074		2.26	0.308		0.5	0.18	<2	<10	20	4.1	24	2.32	0.7	16	6	10
JN12016-075		1.40	0.286		0.5	0.16	11	<10	20	5.3	189	1.88	0.6	24	7	945
JN12016-076		1.66	>10.0	20.4	3.1	0.10	39	<10	<10	2.3	3160	0.31	<0.5	34	12	1405
JN12016-077		1.02	4.43		22.3	0.03	12	<10	<10	<0.5	4090	0.13	1.9	18	18	306
JN12016-078		2.52	1.475		2.0	0.20	8	<10	10	2.5	308	0.57	0.5	19	14	444
JN12016-079		1.46	0.045		0.4	0.72	3	<10	20	2.5	20	1.15	0.5	17	8	88
JN12016-080		2.12	0.029		0.4	0.39	<2	<10	20	2.3	7	1.32	0.7	16	12	33
JN12016-080S		0.08	1.035		0.5	1.75	1335	30	100	<0.5	24	3.57	<0.5	48	24	140
JN12016-080B		2.26	<0.005		1.6	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1
JN12016-081		2.22	0.066		0.4	0.21	3	<10	20	2.4	17	1.34	0.7	15	9	58
JN12016-082		1.82	0.060		1.1	0.21	5	<10	10	5.4	33	1.09	1.2	24	14	348
JN12016-083		0.62	0.049		0.4	0.09	<2	<10	10	1.4	7	0.57	<0.5	7	17	62
JN12016-084		3.22	0.087		0.2	0.25	2	<10	10	3.6	6	1.14	<0.5	8	19	2
JN12016-085		1.40	0.624		<0.2	1.38	3	10	20	1.4	24	0.86	<0.5	9	32	8
JN12016-086		0.64	0.019		3.1	0.69	4	10	40	0.9	15	1.44	49.3	5	14	120
JN12016-087		1.34	0.273		<0.2	1.00	2	<10	10	1.0	16	2.34	<0.5	11	35	40
JN12016-088		2.34	0.148		0.8	1.03	35	10	50	1.3	16	3.62	<0.5	12	23	44
JN12016-089		2.12	0.052		0.5	0.74	31	20	70	1.1	4	2.72	<0.5	7	15	26
JN12016-090		2.62	0.335		0.7	2.05	45	10	100	1.3	33	3.22	<0.5	8	31	32
JN12016-090D		<0.02	0.341		0.6	2.18	44	20	110	1.4	39	3.36	<0.5	8	32	31
JN12016-091		0.66	0.005		0.2	0.72	19	10	30	1.2	<2	2.15	<0.5	7	18	11
JN12016-092		0.72	0.011		<0.2	1.37	2	<10	10	1.3	2	0.37	<0.5	18	24	37
JN12016-093		2.10	0.093		0.5	0.54	54	10	30	0.6	37	0.78	<0.5	4	5	20
JN12016-094		3.30	0.049		0.2	0.58	7	10	50	0.8	12	1.39	0.6	2	9	17
JN12016-095		3.24	0.218		<0.2	0.75	<2	<10	90	0.7	21	0.75	<0.5	3	14	4
JN12016-096		1.28	0.011		<0.2	0.82	<2	<10	100	0.7	<2	0.77	<0.5	3	9	2
JN12016-097		0.66	<0.005		<0.2	0.73	<2	<10	80	0.6	<2	0.83	<0.5	3	8	3
JN12016-098		3.00	0.027		0.2	0.53	<2	<10	40	0.8	5	1.13	<0.5	3	8	5
JN12016-099		3.34	0.011		<0.2	0.80	<2	<10	110	<0.5	<2	0.61	<0.5	3	9	1
JN12016-100		3.18	<0.005		<0.2	0.80	<2	<10	100	0.5	<2	0.77	<0.5	3	10	1
JN12016-100S		0.08	0.984		0.5	1.82	1425	30	100	<0.5	26	4.12	<0.5	51	27	145
JN12016-100B		2.88	<0.005		<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1
JN12016-101		2.68	0.007		<0.2	0.84	2	<10	100	<0.5	2	0.71	<0.5	3	8	1
JN12016-102		3.52	0.044		<0.2	0.59	2	10	60	0.7	<2	4.59	<0.5	2	8	1
JN12016-103		1.78	0.022		<0.2	0.58	3	<10	50	0.7	5	1.09	<0.5	2	10	9
JN12016-104		1.82	0.010		<0.2	0.74	<2	<10	60	0.7	<2	1.06	<0.5	2	10	8
JN12016-105		0.78	0.094		0.4	0.74	3	<10	30	1.3	19	1.18	<0.5	2	6	9
JN12016-106		1.50	0.050		0.3	0.60	6	10	30	0.7	11	0.88	0.7	6	6	31
JN12016-107		0.74	4.46		7.6	0.37	121	10	30	<0.5	598	0.23	2.6	4	9	26

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CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12016-073		27.4	<10	<1	<0.01	<10	1.01	12900	1	0.01	<1	320	7	0.11	<2	4
JN12016-074		32.3	<10	<1	<0.01	<10	1.01	14400	34	0.01	<1	440	10	0.09	<2	2
JN12016-075		27.4	<10	1	<0.01	<10	0.70	10450	115	0.01	<1	210	5	2.98	<2	2
JN12016-076		10.30	<10	<1	0.03	10	0.15	787	180	<0.01	12	220	7	6.20	38	1
JN12016-077		6.05	<10	<1	0.01	<10	0.05	231	43	<0.01	1	30	1000	3.85	95	<1
JN12016-078		9.58	<10	1	0.06	10	0.16	1865	162	<0.01	<1	420	65	4.32	12	4
JN12016-079		16.0	10	<1	0.07	30	0.30	7150	311	0.01	<1	550	9	1.94	3	6
JN12016-080		20.1	<10	1	0.02	10	0.49	9390	81	0.01	1	290	8	0.92	3	3
JN12016-080S		3.73	<10	<1	0.18	10	0.58	813	10	0.18	24	830	10	0.30	4	3
JN12016-080B		0.09	<10	1	<0.01	<10	1.77	42	<1	<0.01	<1	60	2	0.07	<2	<1
JN12016-081		20.6	<10	<1	<0.01	<10	0.51	9000	7	0.01	1	250	12	1.60	3	4
JN12016-082		20.5	<10	1	0.01	10	0.43	6150	29	<0.01	<1	340	26	4.24	2	3
JN12016-083		6.74	<10	<1	0.03	10	0.16	2540	192	<0.01	1	330	17	1.43	7	4
JN12016-084		11.60	<10	1	0.01	10	0.34	6030	242	<0.01	3	430	5	0.27	4	9
JN12016-085		2.47	10	<1	0.10	40	0.19	975	278	<0.01	22	590	3	0.23	<2	10
JN12016-086		4.80	<10	<1	0.36	20	0.44	908	54	<0.01	15	710	144	2.89	3	5
JN12016-087		3.43	<10	<1	0.12	30	0.20	1065	108	<0.01	28	720	6	0.51	<2	9
JN12016-088		3.69	<10	<1	0.32	20	0.75	1115	219	0.02	38	970	10	0.58	11	10
JN12016-089		2.77	<10	<1	0.42	20	0.75	680	89	0.02	24	340	10	0.39	10	6
JN12016-090		3.44	10	<1	0.67	20	1.00	633	138	0.13	30	480	8	0.47	11	8
JN12016-090D		3.47	10	<1	0.71	20	1.01	640	147	0.14	31	480	8	0.46	11	8
JN12016-091		2.62	<10	<1	0.24	20	0.54	492	179	<0.01	23	460	5	0.15	5	7
JN12016-092		1.35	<10	<1	0.09	30	0.09	300	210	<0.01	42	390	9	0.34	<2	7
JN12016-093		1.92	<10	<1	0.22	10	0.13	268	8	<0.01	1	420	19	0.65	4	2
JN12016-094		1.77	<10	<1	0.26	20	0.19	244	13	0.04	1	420	12	0.48	<2	2
JN12016-095		1.89	<10	<1	0.34	20	0.30	302	20	0.06	1	420	8	0.11	<2	4
JN12016-096		1.98	<10	<1	0.38	20	0.33	337	18	0.08	<1	440	5	0.05	<2	5
JN12016-097		2.00	<10	<1	0.29	20	0.30	340	5	0.07	1	400	6	0.06	<2	4
JN12016-098		1.82	<10	<1	0.19	20	0.21	344	9	0.04	<1	410	9	0.17	<2	3
JN12016-099		1.84	<10	<1	0.35	20	0.32	308	54	0.08	<1	410	5	0.03	<2	4
JN12016-100		1.55	<10	<1	0.37	20	0.28	285	2	0.11	1	400	3	0.03	<2	4
JN12016-100S		3.95	<10	<1	0.19	10	0.61	839	10	0.19	26	850	12	0.35	5	3
JN12016-100B		0.04	<10	<1	<0.01	<10	1.77	25	<1	0.02	<1	50	2	0.07	<2	<1
JN12016-101		1.54	<10	<1	0.40	20	0.31	250	25	0.11	<1	400	<2	0.04	<2	4
JN12016-102		1.34	<10	1	0.25	20	0.41	226	21	0.07	<1	380	3	0.04	2	3
JN12016-103		1.35	<10	<1	0.20	20	0.25	186	138	0.08	1	390	4	0.22	2	3
JN12016-104		1.63	<10	<1	0.22	20	0.29	232	34	0.10	1	430	3	0.18	2	4
JN12016-105		0.95	<10	<1	0.10	30	0.11	166	12	0.02	1	440	9	0.19	<2	3
JN12016-106		1.66	<10	<1	0.20	20	0.11	215	19	0.02	1	420	11	0.88	3	2
JN12016-107		1.30	<10	<1	0.23	10	0.04	86	677	0.02	1	210	193	1.09	17	<1

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
JN12016- 073		17	<20	<0.01	<10	<10	16	30	183	
JN12016- 074		15	<20	<0.01	<10	<10	8	50	295	
JN12016- 075		11	<20	<0.01	<10	<10	13	110	149	
JN12016- 076		9	<20	<0.01	<10	10	11	880	58	
JN12016- 077		2	<20	<0.01	<10	<10	2	540	16	
JN12016- 078		5	<20	<0.01	<10	<10	16	660	59	
JN12016- 079		13	<20	<0.01	<10	<10	30	110	81	
JN12016- 080		14	<20	<0.01	<10	<10	18	570	142	
JN12016- 080S		114	<20	0.11	<10	<10	61	10	63	
JN12016- 080B		5540	<20	<0.01	<10	<10	<1	<10	<2	
JN12016- 081		24	<20	<0.01	<10	<10	15	70	105	
JN12016- 082		17	<20	<0.01	<10	<10	28	250	101	
JN12016- 083		18	<20	<0.01	<10	<10	22	770	78	
JN12016- 084		12	<20	<0.01	<10	<10	43	570	84	
JN12016- 085		35	30	<0.01	<10	10	40	690	47	
JN12016- 086		63	<20	<0.01	<10	<10	15	130	4120	
JN12016- 087		33	<20	<0.01	<10	<10	41	130	38	
JN12016- 088		154	<20	0.01	<10	<10	31	90	68	
JN12016- 089		165	<20	0.01	<10	<10	15	30	31	
JN12016- 090		182	<20	0.07	<10	<10	33	60	44	
JN12016- 090D		185	<20	0.07	<10	<10	33	60	46	
JN12016- 091		114	<20	<0.01	<10	<10	20	20	40	
JN12016- 092		14	20	<0.01	<10	<10	32	20	44	
JN12016- 093		26	<20	<0.01	<10	<10	4	80	40	
JN12016- 094		89	<20	0.01	<10	<10	8	150	67	
JN12016- 095		31	<20	0.06	<10	<10	18	230	21	
JN12016- 096		43	<20	0.07	<10	10	20	50	26	
JN12016- 097		46	<20	0.04	<10	10	16	20	26	
JN12016- 098		42	<20	0.01	<10	10	12	20	49	
JN12016- 099		27	<20	0.08	<10	<10	21	10	22	
JN12016- 100		34	<20	0.07	<10	<10	19	20	20	
JN12016- 100S		115	<20	0.12	<10	<10	65	10	66	
JN12016- 100B		5040	<20	<0.01	<10	<10	1	<10	<2	
JN12016- 101		38	<20	0.08	<10	<10	20	20	17	
JN12016- 102		510	<20	0.04	<10	<10	13	300	13	
JN12016- 103		47	<20	0.03	<10	<10	13	430	11	
JN12016- 104		50	<20	0.05	<10	<10	17	140	14	
JN12016- 105		25	<20	<0.01	<10	<10	7	110	15	
JN12016- 106		32	<20	<0.01	<10	<10	4	170	70	
JN12016- 107		4	<20	<0.01	<10	<10	2	60	171	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
JN12016-108		0.84	0.086		0.5	0.61	34	10	50	0.6	11	0.34	2.3	8	5	113
JN12016-109		2.18	0.145		1.0	0.58	9	10	50	0.8	38	1.57	0.5	6	4	54
JN12016-110		3.48	0.081		0.9	0.51	<2	10	40	1.4	13	1.79	<0.5	3	9	34
JN12016-111		2.06	0.714		1.8	0.61	2	10	50	1.0	35	1.44	<0.5	3	8	18
JN12016-112		2.32	0.030		0.3	0.67	3	<10	20	1.1	4	3.37	<0.5	5	5	14
JN12016-113		2.10	0.005		0.3	0.75	6	10	30	0.7	5	1.36	1.8	3	8	17
JN12016-114		3.04	0.011		1.5	0.60	11	20	50	0.6	13	0.58	12.3	4	4	55
JN12016-115		3.12	0.018		0.9	0.68	5	10	30	0.7	8	0.86	0.5	4	4	24
JN12016-116		2.38	0.067		2.4	0.54	20	20	40	0.5	14	0.19	2.3	4	4	37
JN12016-117		2.06	0.218		1.8	0.59	7	20	40	0.6	41	0.79	<0.5	3	4	25
JN12016-118		2.18	0.059		2.3	0.50	6	20	30	0.6	28	0.44	1.6	3	4	26
JN12016-119		2.34	0.123		0.6	0.60	3	<10	20	0.7	19	0.64	<0.5	3	5	13
JN12016-120		3.22	0.052		0.8	0.57	3	10	30	0.7	20	0.87	<0.5	3	7	13
JN12016-120D		<0.02	0.062		0.7	0.58	3	10	30	0.7	17	0.86	<0.5	3	6	13
JN12016-120S		0.08	0.999		0.6	1.64	1365	20	100	<0.5	24	3.62	<0.5	50	25	144
JN12016-120B		2.68	<0.005		1.6	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1
JN12016-121		3.16	0.009		0.5	0.54	3	<10	30	0.6	6	0.77	<0.5	3	5	19
JN12016-122		0.76	0.005		0.7	0.42	2	10	30	<0.5	8	0.92	1.4	5	6	38
JN12016-123		2.54	0.027		2.0	0.54	<2	<10	30	0.5	31	0.31	0.6	4	4	29
JN12016-124		2.48	0.098		4.4	0.50	<2	10	40	0.5	76	0.16	2.8	3	6	33
JN12016-125		1.68	0.049		0.9	0.40	<2	40	30	0.5	19	0.12	2.2	2	10	21
JN12016-126		3.30	<0.005		1.6	0.55	<2	20	50	0.5	30	0.12	1.5	4	6	61
JN12016-127		3.00	0.024		1.4	0.71	<2	10	40	0.5	28	0.15	0.9	4	4	37
JN12016-128		2.84	0.093		1.5	0.60	5	10	20	0.6	20	0.40	<0.5	3	6	9
JN12016-129		2.44	0.019		0.4	0.55	<2	10	20	0.6	8	0.74	<0.5	3	5	9
JN12016-130		2.18	0.064		0.5	0.54	3	10	20	0.8	13	0.81	<0.5	4	4	9
JN12016-131		1.92	0.075		0.8	0.38	68	20	30	0.7	8	0.87	<0.5	2	3	10
JN12016-132		3.22	0.016		3.3	0.56	127	10	30	0.7	51	1.23	<0.5	3	4	22
JN12016-133		3.30	0.010		0.8	0.39	12	20	30	0.9	14	2.13	<0.5	3	6	16
JN12016-134		3.10	<0.005		1.1	0.49	56	20	30	0.8	4	2.21	0.6	2	7	12
JN12016-135		2.46	<0.005		0.3	0.45	8	10	20	0.6	2	1.09	<0.5	3	5	9
JN12016-136		2.04	0.014		0.8	0.40	47	20	20	0.5	4	0.79	<0.5	3	7	8
JN12016-137		3.12	0.066		0.2	0.79	3	10	20	0.9	12	1.18	<0.5	3	6	4
JN12016-138		0.34	<0.005		<0.2	1.16	<2	<10	20	1.3	<2	1.38	<0.5	3	5	1
JN12016-139		3.36	0.010		<0.2	0.87	<2	<10	90	0.6	<2	0.81	<0.5	3	11	6
JN12016-140		3.44	0.032		<0.2	0.83	<2	<10	90	0.6	3	0.88	<0.5	2	9	2
JN12016-140S		0.08	4.02		56.2	1.89	1065	<10	190	<0.5	<2	1.08	<0.5	10	21	104
JN12016-140B		2.34	<0.005		<0.2	0.06	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1
JN12016-141		3.00	0.006		<0.2	0.89	<2	<10	120	0.5	<2	0.68	<0.5	3	8	1
JN12016-142		3.20	0.025		<0.2	0.64	<2	<10	10	0.8	14	2.05	<0.5	4	7	3

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44 - 12TH AVENUE SOUTH
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Finalized Date: 6- SEP- 2012
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CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12016-108		3.80	<10	<1	0.32	10	0.11	197	114	0.02	<1	370	11	2.87	2	1
JN12016-109		2.35	<10	<1	0.28	10	0.14	249	78	0.02	<1	400	26	1.39	3	1
JN12016-110		1.58	<10	<1	0.22	20	0.19	211	22	0.07	2	410	14	0.71	<2	2
JN12016-111		1.48	<10	<1	0.26	20	0.23	242	22	0.07	<1	410	32	0.48	<2	2
JN12016-112		1.55	<10	<1	0.14	30	0.16	356	23	0.02	2	450	12	0.42	<2	3
JN12016-113		1.67	<10	<1	0.19	20	0.19	415	17	0.02	<1	420	22	0.59	2	2
JN12016-114		2.44	<10	<1	0.37	10	0.09	407	14	0.02	1	400	69	1.87	4	1
JN12016-115		1.61	<10	<1	0.26	20	0.18	414	36	0.02	<1	450	43	0.70	2	2
JN12016-116		2.12	<10	<1	0.36	10	0.06	228	12	0.02	1	380	116	1.63	2	1
JN12016-117		1.57	<10	<1	0.29	10	0.17	425	22	0.02	<1	430	54	0.74	4	2
JN12016-118		1.43	<10	<1	0.23	10	0.11	282	26	0.01	1	400	92	0.73	<2	1
JN12016-119		1.30	<10	<1	0.16	20	0.16	322	16	0.01	2	490	26	0.35	2	2
JN12016-120		1.50	<10	<1	0.19	20	0.19	341	11	0.01	1	410	33	0.46	<2	2
JN12016-120D		1.44	<10	<1	0.20	20	0.19	339	9	0.01	1	410	30	0.43	<2	2
JN12016-120S		3.74	<10	<1	0.18	10	0.59	781	10	0.17	25	830	9	0.31	4	3
JN12016-120B		0.03	<10	<1	<0.01	<10	2.00	22	<1	0.01	1	50	<2	0.07	<2	<1
JN12016-121		1.43	<10	<1	0.22	10	0.16	356	21	0.01	1	390	22	0.50	<2	1
JN12016-122		1.83	<10	<1	0.26	10	0.10	204	25	0.01	1	330	25	1.06	5	1
JN12016-123		1.48	<10	<1	0.27	10	0.09	228	52	0.01	1	400	61	0.65	2	1
JN12016-124		1.57	<10	1	0.29	10	0.07	228	26	<0.01	<1	350	145	0.75	3	1
JN12016-125		1.18	<10	<1	0.24	10	0.05	124	44	0.01	<1	280	37	0.60	<2	<1
JN12016-126		2.14	<10	1	0.35	10	0.07	125	36	<0.01	<1	400	42	1.51	5	1
JN12016-127		1.93	<10	<1	0.26	20	0.08	230	28	<0.01	<1	460	53	1.20	<2	1
JN12016-128		1.14	<10	<1	0.16	20	0.11	264	57	<0.01	<1	430	59	0.34	<2	2
JN12016-129		1.37	<10	<1	0.16	20	0.18	335	117	<0.01	<1	470	20	0.43	<2	2
JN12016-130		1.73	<10	<1	0.15	20	0.25	302	2	<0.01	<1	430	19	0.36	3	3
JN12016-131		1.13	<10	<1	0.26	10	0.18	335	4	<0.01	<1	430	37	0.29	11	2
JN12016-132		1.67	<10	<1	0.25	10	0.15	549	55	<0.01	<1	440	153	0.78	6	2
JN12016-133		1.56	<10	<1	0.24	10	0.18	562	5	<0.01	<1	370	33	0.61	11	2
JN12016-134		1.55	<10	<1	0.21	20	0.20	629	35	<0.01	1	460	89	0.46	9	2
JN12016-135		1.59	<10	<1	0.17	20	0.23	393	8	<0.01	<1	380	18	0.34	5	3
JN12016-136		1.34	<10	<1	0.22	10	0.18	446	18	<0.01	<1	330	68	0.36	16	2
JN12016-137		1.26	<10	<1	0.12	20	0.18	259	10	<0.01	<1	450	12	0.16	<2	3
JN12016-138		0.55	<10	<1	0.09	30	0.08	117	27	0.01	<1	450	6	0.03	<2	5
JN12016-139		1.77	10	<1	0.33	20	0.34	220	23	0.09	1	420	3	0.16	<2	4
JN12016-140		1.78	<10	<1	0.35	30	0.35	245	15	0.09	<1	430	3	0.06	<2	4
JN12016-140S		3.62	<10	<1	0.27	10	0.81	502	8	0.22	13	600	8	0.13	12	3
JN12016-140B		0.05	<10	1	0.01	<10	1.63	23	<1	0.01	<1	50	<2	0.07	<2	<1
JN12016-141		1.81	<10	<1	0.41	20	0.34	259	4	0.10	<1	400	2	0.02	<2	5
JN12016-142		0.63	<10	<1	0.06	30	0.08	164	9	0.01	<1	420	7	0.06	<2	4

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
JN12016- 108		8	<20	<0.01	<10	<10	3	80	190	
JN12016- 109		47	<20	<0.01	<10	<10	3	100	41	
JN12016- 110		76	<20	<0.01	<10	<10	6	350	22	
JN12016- 111		62	<20	0.02	<10	<10	9	210	37	
JN12016- 112		53	<20	<0.01	<10	<10	7	140	29	
JN12016- 113		34	<20	<0.01	<10	<10	4	60	172	
JN12016- 114		16	<20	<0.01	<10	<10	2	20	1090	
JN12016- 115		30	<20	<0.01	<10	<10	3	360	60	
JN12016- 116		7	<20	<0.01	<10	<10	2	90	263	
JN12016- 117		29	<20	<0.01	<10	<10	3	390	38	
JN12016- 118		16	<20	<0.01	<10	<10	2	340	189	
JN12016- 119		26	<20	<0.01	<10	10	5	180	6	
JN12016- 120		41	<20	<0.01	<10	10	3	80	10	
JN12016- 120D		41	<20	<0.01	<10	10	3	70	9	
JN12016- 120S		111	<20	0.11	<10	10	61	10	63	
JN12016- 120B		5740	<20	<0.01	<10	<10	<1	<10	<2	
JN12016- 121		35	<20	<0.01	<10	<10	2	60	42	
JN12016- 122		104	<20	<0.01	<10	<10	2	190	147	
JN12016- 123		9	<20	<0.01	<10	<10	2	30	64	
JN12016- 124		6	<20	<0.01	<10	<10	2	200	263	
JN12016- 125		6	<20	<0.01	<10	<10	2	180	224	
JN12016- 126		4	<20	<0.01	<10	<10	3	250	135	
JN12016- 127		5	<20	<0.01	<10	<10	4	230	84	
JN12016- 128		13	<20	<0.01	<10	<10	4	280	30	
JN12016- 129		30	<20	<0.01	<10	<10	4	330	16	
JN12016- 130		42	<20	<0.01	<10	<10	4	30	9	
JN12016- 131		41	<20	<0.01	<10	<10	2	170	22	
JN12016- 132		44	<20	<0.01	<10	<10	3	510	48	
JN12016- 133		118	<20	<0.01	<10	<10	2	190	22	
JN12016- 134		135	<20	<0.01	<10	<10	3	290	81	
JN12016- 135		53	<20	<0.01	<10	<10	4	60	7	
JN12016- 136		33	<20	<0.01	<10	<10	2	50	16	
JN12016- 137		32	<20	<0.01	<10	<10	8	220	11	
JN12016- 138		21	20	<0.01	<10	<10	9	20	21	
JN12016- 139		33	<20	0.07	<10	<10	20	210	13	
JN12016- 140		35	<20	0.07	<10	<10	22	320	13	
JN12016- 140S		97	<20	0.15	<10	<10	95	<10	52	
JN12016- 140B		5200	<20	<0.01	<10	10	1	<10	<2	
JN12016- 141		37	<20	0.10	<10	<10	23	30	14	
JN12016- 142		84	<20	<0.01	<10	<10	9	40	30	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
JN12016-143		2.68	0.020		0.3	0.68	<2	10	20	0.8	18	2.00	<0.5	4	6	22
JN12016-144		0.72	0.032		4.1	0.90	22	50	60	0.6	137	0.15	1.2	6	9	59
JN12016-145		1.48	0.009		0.8	0.67	3	10	30	<0.5	22	0.21	<0.5	4	5	38
JN12016-146		1.38	0.021		5.0	0.55	9	20	40	<0.5	154	0.17	1.5	5	5	46
JN12016-147		2.50	0.007		0.7	0.23	<2	<10	20	<0.5	20	0.27	0.6	4	3	47
JN12016-148		1.28	<0.005		0.2	0.72	2	10	20	0.5	4	0.15	<0.5	5	4	42
JN12016-149		1.68	0.015		2.3	0.59	8	30	30	0.5	71	0.12	2.1	3	6	43
JN12016-150		1.68	0.022		1.8	0.82	<2	10	30	0.5	62	1.04	<0.5	2	5	20
JN12016-150D		<0.02	0.043		1.9	0.74	<2	10	30	0.5	69	0.97	<0.5	2	4	21
JN12016-151		1.66	<0.005		<0.2	0.59	2	10	30	0.8	<2	1.80	<0.5	1	4	9
JN12016-152		0.96	0.032		3.0	0.58	<2	10	30	0.5	100	1.50	<0.5	1	6	15
JN12016-153		2.32	<0.005		<0.2	0.47	<2	10	40	0.9	7	1.48	<0.5	2	5	17
JN12016-154		3.22	0.179		1.4	0.54	2	10	50	0.8	150	1.39	<0.5	5	7	45
JN12016-155		3.10	<0.005		0.4	0.58	<2	<10	60	0.5	<2	1.47	0.8	2	6	5
JN12016-156		2.94	<0.005		<0.2	0.81	<2	<10	100	<0.5	<2	0.69	<0.5	2	6	4
JN12016-157		3.02	<0.005		<0.2	0.81	<2	<10	90	0.5	2	0.75	<0.5	2	6	4
JN12016-158		2.04	<0.005		<0.2	0.51	<2	10	40	0.6	<2	1.36	<0.5	2	7	6
JN12016-159		2.80	<0.005		<0.2	0.83	<2	<10	100	0.5	5	0.83	<0.5	3	7	5
JN12016-160		2.56	0.018		<0.2	0.71	<2	<10	80	0.5	<2	0.84	<0.5	2	9	3
JN12016-160S		0.08	0.982		0.4	1.75	1345	30	100	<0.5	23	3.85	<0.5	48	24	135
JN12016-160B		2.34	<0.005		<0.2	0.02	<2	<10	<10	<0.5	2	>25.0	<0.5	<1	<1	2
JN12016-161		2.96	0.011		<0.2	1.01	<2	<10	130	<0.5	<2	0.65	<0.5	2	8	3
JN12016-162		0.62	<0.005		<0.2	0.81	<2	<10	110	<0.5	<2	1.43	<0.5	2	5	4
JN12016-163		2.18	<0.005		<0.2	1.08	<2	<10	150	<0.5	<2	0.57	<0.5	3	7	3
JN12016-164		2.84	<0.005		<0.2	0.73	<2	<10	20	0.7	<2	1.74	<0.5	3	5	8
JN12016-165		3.40	<0.005		0.8	0.81	3	10	20	<0.5	15	0.46	2.8	4	6	34
JN12016-166		2.94	<0.005		<0.2	1.02	2	<10	20	0.5	2	0.49	<0.5	4	6	16
JN12016-167		3.32	<0.005		0.4	0.82	3	10	30	0.5	5	0.87	4.5	3	4	21
JN12016-168		3.14	<0.005		<0.2	0.83	<2	<10	20	0.6	<2	3.27	1.8	1	3	11
JN12016-169		3.36	0.039		<0.2	0.63	6	10	10	<0.5	<2	0.42	<0.5	2	7	4
JN12016-170		3.48	0.006		<0.2	0.98	<2	<10	10	<0.5	<2	0.15	<0.5	3	7	6
JN12016-171		0.72	0.021		0.5	0.72	4	<10	10	<0.5	12	0.10	2.4	2	6	9
JN12016-172		2.84	<0.005		<0.2	0.77	2	<10	<10	<0.5	2	0.19	<0.5	4	8	2
JN12016-173		2.38	0.270		0.6	0.68	28	<10	10	<0.5	<2	0.07	<0.5	2	6	16
JN12016-174		2.26	<0.005		<0.2	1.00	2	<10	10	0.6	<2	2.20	<0.5	2	4	7
JN12016-175		0.88	0.092		3.3	0.71	13	<10	10	<0.5	433	0.57	0.5	2	10	11
JN12016-176		2.28	0.034		0.9	0.90	19	<10	30	0.5	3	2.68	0.6	2	5	20
JN12016-177		2.26	<0.005		<0.2	0.65	6	<10	20	0.6	18	1.60	<0.5	1	6	11
JN12016-178		0.74	0.124		5.1	0.51	717	<10	20	<0.5	378	1.59	0.5	1	8	13
JN12016-179		1.44	0.020		1.3	0.87	164	<10	20	0.5	48	2.69	<0.5	1	5	17

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12016-143		1.85	<10	<1	0.16	20	0.17	308	12	<0.01	<1	450	21	0.64	<2	3
JN12016-144		2.47	<10	1	0.42	10	0.06	187	10	0.01	2	380	148	1.92	10	1
JN12016-145		2.10	<10	<1	0.19	20	0.09	195	6	<0.01	<1	450	33	1.49	2	1
JN12016-146		2.41	<10	<1	0.32	10	0.07	219	39	0.01	<1	390	180	1.86	9	1
JN12016-147		2.31	<10	<1	0.12	10	0.07	288	8	<0.01	<1	410	31	1.79	5	1
JN12016-148		2.39	<10	1	0.19	20	0.08	313	9	<0.01	<1	420	11	1.62	2	2
JN12016-149		2.11	<10	<1	0.27	20	0.05	154	4	0.02	1	390	71	1.73	4	1
JN12016-150		1.64	<10	<1	0.22	20	0.10	284	28	0.02	<1	420	70	0.85	3	2
JN12016-150D		1.58	<10	<1	0.22	20	0.10	280	28	0.02	<1	400	70	0.78	5	2
JN12016-151		1.43	<10	<1	0.21	20	0.16	311	2	0.02	<1	470	6	0.54	<2	1
JN12016-152		1.33	<10	<1	0.25	10	0.12	434	20	0.02	<1	360	112	0.45	6	1
JN12016-153		1.89	<10	<1	0.24	20	0.21	292	3	0.05	<1	400	12	0.70	<2	2
JN12016-154		2.87	<10	<1	0.27	20	0.19	283	3	0.06	1	390	62	1.38	6	2
JN12016-155		1.69	<10	<1	0.24	20	0.25	429	4	0.07	<1	370	41	0.15	<2	3
JN12016-156		1.82	<10	<1	0.37	20	0.32	222	21	0.10	1	380	2	0.10	<2	4
JN12016-157		1.83	<10	<1	0.35	20	0.32	228	6	0.09	<1	400	3	0.13	<2	4
JN12016-158		1.72	<10	<1	0.27	10	0.23	392	34	0.05	<1	390	16	0.39	<2	2
JN12016-159		1.88	10	<1	0.39	20	0.35	246	4	0.09	<1	400	7	0.17	2	4
JN12016-160		1.76	<10	<1	0.34	20	0.32	221	7	0.07	<1	380	2	0.09	<2	4
JN12016-160S		3.84	<10	<1	0.17	10	0.58	810	9	0.18	23	810	8	0.30	5	3
JN12016-160B		0.03	<10	<1	<0.01	<10	1.79	19	<1	0.02	<1	50	<2	0.06	3	<1
JN12016-161		1.98	10	<1	0.48	20	0.37	249	5	0.11	<1	410	2	0.07	<2	5
JN12016-162		1.66	<10	<1	0.42	20	0.32	253	11	0.09	<1	340	<2	0.17	2	4
JN12016-163		2.04	10	<1	0.54	20	0.38	292	4	0.13	<1	410	2	0.10	<2	5
JN12016-164		1.81	<10	<1	0.11	30	0.12	388	4	0.02	<1	450	12	0.35	<2	4
JN12016-165		2.37	<10	<1	0.19	20	0.14	361	6	0.02	1	430	39	1.16	4	2
JN12016-166		1.86	<10	<1	0.20	20	0.16	280	38	0.02	<1	450	23	0.82	2	2
JN12016-167		1.93	<10	<1	0.25	20	0.10	309	24	0.02	<1	450	41	1.12	2	2
JN12016-168		1.62	<10	<1	0.17	20	0.13	470	1	0.02	<1	410	38	0.51	<2	2
JN12016-169		1.65	<10	<1	0.09	20	0.07	165	4	0.01	1	380	13	1.44	19	2
JN12016-170		2.52	<10	<1	0.07	20	0.06	269	10	0.01	<1	430	16	2.09	9	2
JN12016-171		2.05	<10	<1	0.14	10	0.06	234	110	0.01	<1	280	31	1.35	10	2
JN12016-172		2.07	<10	<1	0.04	20	0.11	473	1	0.01	1	400	20	0.59	4	3
JN12016-173		2.37	<10	<1	0.13	10	0.02	40	196	0.01	3	260	25	2.56	41	1
JN12016-174		2.26	<10	<1	0.08	30	0.16	573	1	0.01	<1	430	12	0.14	3	4
JN12016-175		2.79	<10	<1	0.14	20	0.09	244	10	0.01	<1	350	150	2.35	30	2
JN12016-176		2.34	<10	<1	0.22	20	0.13	416	1	0.02	<1	410	26	1.16	9	3
JN12016-177		1.80	<10	<1	0.19	30	0.19	394	1	0.02	<1	400	14	0.48	2	3
JN12016-178		1.36	<10	<1	0.20	10	0.13	289	1	0.02	<1	230	232	0.64	14	1
JN12016-179		1.76	<10	<1	0.27	20	0.13	599	1	0.02	<1	370	60	1.16	5	2

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CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Zn- OG46 Zn % 0.001
JN12016- 143		37	<20	<0.01	<10	<10	7	40	14	
JN12016- 144		7	<20	<0.01	<10	<10	3	20	137	
JN12016- 145		7	<20	<0.01	<10	<10	4	<10	7	
JN12016- 146		5	<20	<0.01	<10	<10	2	30	175	
JN12016- 147		7	<20	<0.01	<10	<10	2	30	81	
JN12016- 148		6	<20	<0.01	<10	<10	5	20	16	
JN12016- 149		6	<20	<0.01	<10	<10	3	10	205	
JN12016- 150		10	<20	<0.01	<10	<10	5	10	24	
JN12016- 150D		10	<20	<0.01	<10	<10	5	10	27	
JN12016- 151		52	<20	<0.01	<10	<10	4	<10	13	
JN12016- 152		43	<20	<0.01	<10	<10	3	10	28	
JN12016- 153		76	<20	0.01	<10	<10	6	50	15	
JN12016- 154		81	<20	0.01	<10	<10	8	170	16	
JN12016- 155		52	<20	0.03	<10	<10	14	150	129	
JN12016- 156		30	<20	0.07	<10	<10	20	210	11	
JN12016- 157		34	<20	0.06	<10	<10	19	10	12	
JN12016- 158		67	<20	0.01	<10	<10	8	20	21	
JN12016- 159		40	<20	0.07	<10	<10	19	10	12	
JN12016- 160		34	<20	0.06	<10	<10	17	20	12	
JN12016- 160S		108	<20	0.12	<10	<10	62	10	63	
JN12016- 160B		4920	<20	<0.01	<10	20	<1	<10	<2	
JN12016- 161		34	<20	0.10	<10	<10	24	10	16	
JN12016- 162		123	<20	0.08	<10	<10	17	20	41	
JN12016- 163		25	<20	0.12	<10	<10	25	10	19	
JN12016- 164		24	<20	<0.01	<10	<10	10	<10	26	
JN12016- 165		13	<20	<0.01	<10	<10	6	<10	309	
JN12016- 166		14	<20	<0.01	<10	<10	6	<10	14	
JN12016- 167		8	<20	<0.01	<10	<10	6	<10	445	
JN12016- 168		19	<20	<0.01	<10	<10	7	<10	200	
JN12016- 169		18	<20	<0.01	<10	<10	4	<10	13	
JN12016- 170		6	<20	<0.01	<10	<10	8	<10	21	
JN12016- 171		5	<20	<0.01	<10	<10	6	<10	213	
JN12016- 172		7	<20	<0.01	<10	<10	13	<10	22	
JN12016- 173		6	<20	<0.01	<10	<10	3	<10	45	
JN12016- 174		26	20	<0.01	<10	<10	12	<10	13	
JN12016- 175		18	<20	<0.01	<10	<10	5	10	65	
JN12016- 176		17	<20	<0.01	<10	<10	9	<10	88	
JN12016- 177		34	<20	<0.01	<10	<10	8	50	10	
JN12016- 178		24	<20	<0.01	<10	<10	3	250	11	
JN12016- 179		30	<20	<0.01	<10	<10	5	10	29	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 6- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	Au-GRA21 Au ppm 0.05	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1
JN12016-180		1.58	0.029		3.5	0.64	27	10	30	<0.5	109	0.17	2.3	2	5	22
JN12016-180D		<0.02	0.031		4.5	0.53	26	10	30	<0.5	141	0.15	2.3	2	7	22
JN12016-180S		0.08	4.10		58.0	1.93	1110	<10	200	<0.5	3	1.10	<0.5	11	22	108
JN12016-180B		2.44	<0.005		<0.2	0.04	<2	<10	10	<0.5	3	>25.0	<0.5	<1	<1	1
JN12016-181		2.70	<0.005		<0.2	0.61	2	<10	20	0.6	3	1.50	<0.5	4	7	9
JN12016-182		3.34	<0.005		<0.2	0.99	<2	<10	130	0.5	<2	1.32	<0.5	3	9	2

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CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method Analyte Units LOR	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1
JN12016-180		2.02	<10	<1	0.25	10	0.05	139	1	0.01	1	280	160	1.86	20	1
JN12016-180D		2.01	<10	<1	0.21	10	0.05	126	1	0.02	1	250	201	1.83	23	1
JN12016-180S		3.68	10	1	0.27	10	0.82	511	9	0.22	15	640	8	0.13	15	3
JN12016-180B		0.03	<10	<1	<0.01	<10	1.59	21	<1	0.01	1	50	<2	0.05	<2	<1
JN12016-181		1.98	<10	<1	0.15	20	0.21	409	1	0.01	1	430	12	0.47	4	4
JN12016-182		1.89	10	<1	0.45	20	0.40	265	7	0.10	1	440	3	0.06	<2	5

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CERTIFICATE OF ANALYSIS WH12194524

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Zn- OG46
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
	LOR	1	20	0.01	10	10	1	10	2	0.001
JN12016- 180		11	<20	<0.01	<10	<10	3	10	209	
JN12016- 180D		10	<20	<0.01	<10	<10	3	10	220	
JN12016- 180S		97	<20	0.15	<10	<10	97	<10	57	
JN12016- 180B		5320	<20	<0.01	<10	<10	1	<10	<2	
JN12016- 181		55	<20	<0.01	<10	<10	9	<10	19	
JN12016- 182		122	<20	0.10	<10	<10	26	20	16	

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Finalized Date: 16- SEP- 2012
This copy reported on
17- SEP- 2012
Account: TELOEX

CERTIFICATE VA12210489

Project:

P.O. No.:

This report is for 1 Drill Core sample submitted to our lab in Vancouver, BC, Canada on 12- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

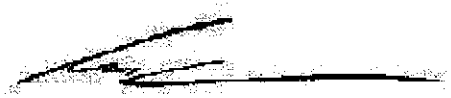
ALS CODE	DESCRIPTION
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 22Y	Split Sample - Boyd Rotary Splitter
SCR- 21	Screen to - 100 to 106 um
FND- 03	Find Reject for Addn Analysis
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 to 106 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
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SUITE 200
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Finalized Date: 16- SEP- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS VA12210489

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
JN12016- 076		21.2	12.15	21.4	0.320	26.32	951.3	21.9	20.9

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Finalized Date: 1- OCT- 2012
Account: TELOEX

CERTIFICATE WH12219350

Project:

P.O. No.: JN12- 013

This report is for 35 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 17- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
PUL- 31d	Pulverize Split - duplicate
SPL- 21d	Split sample - duplicate
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%<75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
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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.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 1- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12219350

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12017-001		0.87	<0.005	<0.2	1.42	21	<10	40	1.1	<2	0.52	<0.5	12	31	46	3.55
JN12017-002		3.07	<0.005	<0.2	3.20	9	<10	120	1.0	<2	1.56	<0.5	15	44	42	3.35
JN12017-003		3.37	<0.005	<0.2	6.00	7	<10	110	1.6	<2	4.03	<0.5	11	60	49	3.40
JN12017-004		3.12	<0.005	<0.2	6.56	7	<10	100	1.7	<2	3.41	<0.5	13	74	58	3.38
JN12017-005		2.95	<0.005	<0.2	5.72	7	<10	110	1.5	<2	3.08	<0.5	13	62	54	3.55
JN12017-006		3.33	<0.005	<0.2	7.16	6	<10	70	1.7	<2	4.92	<0.5	13	53	60	3.17
JN12017-007		2.18	<0.005	<0.2	6.45	<2	<10	50	1.6	<2	5.94	<0.5	4	26	11	2.03
JN12017-008		2.38	<0.005	<0.2	5.94	8	<10	60	1.7	<2	4.33	<0.5	8	43	35	2.10
JN12017-009		4.10	<0.005	<0.2	3.58	4	20	10	1.3	4	8.5	<0.5	2	28	4	3.57
JN12017-010		4.37	0.007	<0.2	2.66	6	50	<10	2.0	6	9.4	<0.5	<1	26	4	3.93
JN12017-011		3.95	0.016	<0.2	2.79	6	40	<10	1.2	5	8.5	<0.5	1	21	52	3.79
JN12017-012		3.65	<0.005	0.3	2.38	304	10	20	1.0	3	11.2	<0.5	2	21	36	7.76
JN12017-013		4.13	0.014	<0.2	3.33	1015	30	10	1.9	4	11.9	<0.5	2	31	19	5.63
JN12017-014		4.17	<0.005	<0.2	2.28	5	<10	<10	<0.5	<2	10.8	<0.5	1	18	5	5.68
JN12017-015		4.01	<0.005	<0.2	4.03	5	20	10	1.5	3	10.4	<0.5	1	27	5	4.09
JN12017-016		2.83	<0.005	<0.2	2.55	<2	<10	<10	<0.5	<2	11.5	<0.5	1	21	3	6.46
JN12017-017		2.24	<0.005	<0.2	2.50	6	10	80	1.3	<2	4.17	<0.5	10	34	71	4.77
JN12017-018		2.98	<0.005	0.4	0.90	4	<10	50	0.7	<2	1.29	<0.5	4	6	69	2.81
JN12017-019		2.18	<0.005	<0.2	1.03	13	<10	70	<0.5	<2	0.64	<0.5	4	6	27	2.01
JN12017-020		3.13	<0.005	<0.2	1.05	122	<10	100	<0.5	<2	0.65	<0.5	4	9	25	2.12
JN12017-020S		0.04	4.00	56.0	1.87	1045	<10	190	<0.5	2	1.06	<0.5	10	21	109	3.69
JN12017-020B		3.00	<0.005	<0.2	0.03	2	<10	10	<0.5	2	>25.0	<0.5	<1	<1	<1	0.04
JN12017-021		1.62	<0.005	0.3	0.89	986	<10	50	0.7	3	0.75	<0.5	4	4	24	1.74
JN12017-022		2.11	<0.005	0.2	1.26	3040	<10	100	0.5	9	0.46	<0.5	4	5	18	2.33
JN12017-023		3.07	<0.005	0.3	1.00	14	<10	40	0.5	2	0.18	2.4	5	2	41	2.04
JN12017-024		1.73	<0.005	0.5	1.10	9	10	60	0.5	<2	0.15	2.1	2	3	40	2.04
JN12017-025		1.85	0.005	0.7	1.05	634	<10	40	0.5	3	0.14	1.1	4	3	54	2.12
JN12017-026		1.71	<0.005	<0.2	1.70	<2	<10	<10	0.5	2	0.18	<0.5	4	2	24	0.81
JN12017-027		2.78	<0.005	0.2	1.03	2	<10	20	<0.5	2	0.16	0.8	4	2	23	1.13
JN12017-028		2.45	0.007	<0.2	1.43	2	<10	30	<0.5	<2	0.14	0.6	3	2	16	1.37
JN12017-029		2.38	0.172	0.5	1.68	28	<10	20	0.6	<2	0.18	<0.5	12	20	58	5.09
JN12017-030		0.96	0.012	<0.2	2.31	11	<10	20	1.2	<2	0.95	<0.5	20	37	100	6.56
JN12017-030D		<0.02	0.010	<0.2	2.64	8	<10	20	1.3	2	0.96	<0.5	20	39	102	6.71
JN12017-031		2.66	<0.005	<0.2	8.20	8	10	80	2.0	2	4.94	<0.5	13	61	68	3.40
JN12017-032		1.98	0.006	<0.2	2.82	6	<10	80	2.0	4	10.0	<0.5	12	32	45	5.25

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Finalized Date: 1- OCT- 2012
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CERTIFICATE OF ANALYSIS WH12219350

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12017-001		10	<1	0.28	10	0.58	473	2	0.01	37	860	10	1.71	<2	4	15
JN12017-002		10	<1	0.61	20	0.89	219	2	0.12	41	150	9	0.79	<2	4	79
JN12017-003		20	<1	0.75	20	0.88	305	1	0.29	38	530	7	0.90	<2	8	249
JN12017-004		20	<1	0.90	20	1.03	231	1	0.43	45	160	8	0.94	<2	9	182
JN12017-005		20	<1	0.88	20	0.90	218	1	0.35	42	540	8	1.06	<2	8	175
JN12017-006		20	<1	0.49	20	0.60	267	1	0.39	33	360	8	1.01	<2	6	315
JN12017-007		20	<1	0.12	20	0.20	385	2	0.44	16	690	8	0.23	<2	3	355
JN12017-008		20	<1	0.32	20	0.46	280	3	0.45	32	190	9	0.56	<2	5	288
JN12017-009		10	<1	0.05	20	0.25	1225	21	0.06	7	620	2	0.05	<2	3	92
JN12017-010		10	<1	0.01	40	0.24	1200	2	0.01	6	480	3	0.01	2	3	19
JN12017-011		10	<1	0.01	20	0.36	1175	2	0.02	6	480	<2	0.05	3	3	38
JN12017-012		10	<1	0.18	10	0.46	2280	<1	0.01	12	190	18	1.83	<2	3	63
JN12017-013		10	1	0.07	30	0.28	1615	<1	0.03	7	210	7	0.38	5	4	61
JN12017-014		10	<1	0.01	<10	0.19	1270	<1	0.01	2	180	3	0.08	<2	3	10
JN12017-015		10	<1	0.06	30	0.24	1305	<1	0.03	6	180	5	0.05	<2	4	163
JN12017-016		10	<1	0.01	<10	0.26	1505	<1	0.01	3	250	3	0.02	<2	3	7
JN12017-017		10	<1	0.67	20	0.63	711	1	0.05	33	220	6	0.82	<2	5	34
JN12017-018		<10	<1	0.24	30	0.31	535	2	0.07	6	500	52	0.99	<2	4	29
JN12017-019		<10	<1	0.27	20	0.37	224	<1	0.10	1	460	12	0.32	<2	4	22
JN12017-020		<10	<1	0.34	20	0.35	233	1	0.11	3	470	17	0.25	<2	4	26
JN12017-020S		10	<1	0.26	10	0.80	512	9	0.21	14	600	8	0.14	14	3	87
JN12017-020B		<10	<1	<0.01	<10	1.81	26	<1	0.01	1	50	<2	0.11	<2	<1	5410
JN12017-021		<10	<1	0.22	30	0.17	217	2	0.05	2	480	15	0.38	<2	3	18
JN12017-022		10	1	0.38	30	0.31	217	1	0.07	<1	470	13	0.46	2	4	18
JN12017-023		<10	<1	0.27	30	0.08	285	<1	0.01	1	450	35	0.94	<2	2	8
JN12017-024		<10	1	0.39	30	0.10	223	<1	0.01	1	450	75	1.11	<2	1	7
JN12017-025		<10	<1	0.33	20	0.08	176	<1	0.01	2	440	73	1.35	<2	1	6
JN12017-026		<10	<1	0.03	30	0.03	150	<1	<0.01	<1	480	21	0.14	<2	3	16
JN12017-027		<10	1	0.17	20	0.04	205	<1	<0.01	<1	460	80	0.44	<2	2	10
JN12017-028		<10	<1	0.19	30	0.03	117	<1	0.01	1	440	48	1.08	3	1	8
JN12017-029		<10	1	0.13	40	0.06	401	<1	<0.01	37	450	13	4.48	30	3	9
JN12017-030		10	<1	0.16	60	0.16	781	<1	0.05	55	850	11	3.29	2	10	57
JN12017-030D		10	1	0.17	60	0.17	786	<1	0.05	54	870	12	3.34	3	10	57
JN12017-031		20	<1	0.69	30	0.72	267	<1	0.57	38	550	7	0.74	2	8	519
JN12017-032		10	<1	0.23	50	0.37	1575	<1	0.03	36	380	3	0.28	2	9	119

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CRANBROOK BC V1C 2R7

Finalized Date: 1- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12219350

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
JN12017- 001		<20	0.01	<10	<10	34	<10	14
JN12017- 002		<20	0.06	<10	<10	39	<10	130
JN12017- 003		<20	0.17	<10	<10	65	<10	63
JN12017- 004		<20	0.18	<10	<10	82	<10	52
JN12017- 005		<20	0.16	<10	<10	69	<10	50
JN12017- 006		<20	0.16	<10	<10	54	<10	50
JN12017- 007		<20	0.12	<10	<10	29	<10	45
JN12017- 008		20	0.12	<10	<10	45	<10	43
JN12017- 009		<20	0.11	<10	<10	29	<10	23
JN12017- 010		<20	0.12	<10	10	28	<10	21
JN12017- 011		<20	0.10	<10	<10	22	<10	22
JN12017- 012		<20	0.04	<10	<10	22	<10	26
JN12017- 013		<20	0.11	<10	<10	29	<10	22
JN12017- 014		<20	0.09	<10	<10	21	<10	13
JN12017- 015		<20	0.13	<10	<10	30	<10	19
JN12017- 016		<20	0.10	<10	<10	25	<10	15
JN12017- 017		<20	0.10	<10	<10	38	<10	51
JN12017- 018		<20	0.04	<10	<10	18	<10	74
JN12017- 019		<20	0.07	<10	<10	21	<10	32
JN12017- 020		<20	0.09	<10	<10	22	<10	34
JN12017- 020S		<20	0.15	<10	<10	92	<10	53
JN12017- 020B		<20	<0.01	<10	<10	1	<10	<2
JN12017- 021		<20	0.01	<10	<10	12	<10	34
JN12017- 022		<20	0.05	<10	<10	18	<10	31
JN12017- 023		<20	<0.01	<10	<10	7	<10	246
JN12017- 024		<20	<0.01	<10	<10	7	<10	230
JN12017- 025		<20	<0.01	<10	<10	6	<10	123
JN12017- 026		20	<0.01	<10	<10	11	<10	18
JN12017- 027		<20	<0.01	<10	<10	8	<10	117
JN12017- 028		<20	<0.01	<10	<10	7	<10	81
JN12017- 029		20	<0.01	<10	<10	23	<10	85
JN12017- 030		20	0.01	<10	<10	53	<10	54
JN12017- 030D		20	0.01	<10	10	55	<10	56
JN12017- 031		20	0.20	<10	<10	62	<10	47
JN12017- 032		20	0.05	<10	<10	39	<10	74

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE WH12224093

Project:

P.O. No.: JN12- 014

This report is for 198 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 21- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%< 75um
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%< 75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu- OG46	Ore Grade Cu - Aqua Regia	VARIABLE
W- XRF05	Trace Level WXRF Analysis	XRF
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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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SUITE 200
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CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
JN12018-001		2.39	<0.005		<0.2	0.44	16	<10	10	<0.5	<2	0.37	<0.5	5	14	9
JN12018-002		1.37	<0.005		0.3	0.42	14	<10	<10	<0.5	<2	0.13	<0.5	5	12	8
JN12018-003		0.66	<0.005		3.3	0.38	14	<10	10	<0.5	<2	0.06	1.0	4	10	21
JN12018-004		2.38	<0.005		<0.2	0.39	8	<10	<10	<0.5	<2	0.09	<0.5	4	12	8
JN12018-005		2.91	<0.005		<0.2	0.31	10	<10	<10	0.7	2	0.40	<0.5	16	10	13
JN12018-006		4.97	<0.005		0.2	0.93	24	<10	30	0.9	<2	0.45	<0.5	10	21	55
JN12018-007		5.96	<0.005		<0.2	0.34	5	<10	10	0.6	2	0.37	<0.5	2	18	5
JN12018-008		5.78	<0.005		<0.2	0.72	24	<10	20	<0.5	<2	0.70	<0.5	3	28	10
JN12018-009		1.70	<0.005		0.2	1.01	11	<10	30	<0.5	<2	0.63	<0.5	6	25	57
JN12018-010		3.64	<0.005		0.2	0.41	3	<10	20	0.5	<2	0.35	0.5	1	6	11
JN12018-011		5.69	0.006		<0.2	0.48	4	<10	20	0.5	<2	0.43	<0.5	2	8	15
JN12018-012		5.28	0.012		<0.2	0.82	2	<10	80	<0.5	<2	0.51	<0.5	4	8	108
JN12018-013		5.34	0.005		<0.2	3.82	4	10	40	1.8	3	5.88	<0.5	2	1	93
JN12018-014		2.27	0.031		0.2	2.39	211	20	10	1.9	20	5.88	<0.5	2	1	82
JN12018-015		1.64	0.008		0.2	1.42	327	10	<10	1.4	6	5.45	<0.5	2	1	57
JN12018-016		1.12	0.288		3.7	0.81	>10000	10	10	1.6	14	9.1	<0.5	9	<1	289
JN12018-017		5.10	<0.005		<0.2	1.82	33	10	<10	2.2	7	7.7	<0.5	<1	<1	14
JN12018-018		0.87	0.021		0.2	0.99	4	<10	<10	1.9	17	3.40	<0.5	7	1	130
JN12018-019		1.43	0.020		0.4	0.70	21	<10	<10	1.9	16	1.06	<0.5	17	2	389
JN12018-020		3.81	0.013		0.2	0.96	<2	<10	10	1.6	9	1.29	<0.5	17	2	118
JN12018-020S		0.04	1.015		0.4	1.60	1330	20	90	<0.5	25	3.61	<0.5	47	24	133
JN12018-020B		4.27	<0.005		<0.2	0.02	2	<10	<10	<0.5	5	>25.0	<0.5	<1	<1	1
JN12018-021		1.70	0.020		1.2	0.59	16	10	20	0.7	25	0.38	<0.5	9	3	540
JN12018-022		5.59	<0.005		0.3	0.72	5	<10	20	0.5	5	0.20	0.6	3	2	57
JN12018-023		5.83	0.005		0.8	1.58	9	10	10	1.3	10	0.56	<0.5	8	2	234
JN12018-024		1.52	0.025		0.4	1.63	3	<10	<10	1.6	20	0.94	<0.5	6	3	95
JN12018-025		1.62	0.040		1.4	1.40	7	10	10	2.9	48	1.33	0.8	13	2	1220
JN12018-026		8.10	0.018		<0.2	2.89	729	10	<10	1.2	5	10.4	<0.5	1	11	21
JN12018-027		3.47	0.007		<0.2	2.99	3	10	10	1.3	5	8.1	<0.5	1	28	23
JN12018-028		1.16	<0.005		0.3	0.89	21	40	70	<0.5	<2	0.29	<0.5	14	12	109
JN12018-029		3.01	0.058		<0.2	0.36	18	<10	10	<0.5	<2	0.12	<0.5	2	14	5
JN12018-030		5.60	0.043		0.2	0.50	8	<10	<10	<0.5	<2	0.13	<0.5	2	25	8
JN12018-030D		<0.02	0.049		0.2	0.50	8	<10	<10	<0.5	<2	0.12	<0.5	3	24	8
JN12018-031		4.53	0.047		0.2	0.39	7	<10	<10	<0.5	<2	0.07	<0.5	2	22	13
JN12018-032		5.77	0.029		<0.2	0.58	3	<10	10	<0.5	17	1.08	<0.5	2	20	44
JN12018-033		3.30	<0.005		0.3	0.57	13	<10	<10	<0.5	3	0.22	<0.5	6	14	22
JN12018-034		1.32	<0.005		0.6	0.56	4	<10	<10	<0.5	<2	0.08	<0.5	1	12	28
JN12018-035		2.34	0.022		8.6	0.56	2210	<10	10	<0.5	14	0.13	<0.5	5	19	64
JN12018-036		5.69	0.045		0.6	0.43	4	<10	<10	<0.5	39	0.07	<0.5	2	15	382
JN12018-037		6.94	0.005		0.3	0.47	13	10	20	<0.5	4	0.07	<0.5	2	12	45

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12018-001		0.70	<10	<1	0.01	10	0.05	238	<1	0.01	5	80	6	0.05	<2	1
JN12018-002		1.48	<10	<1	0.01	10	0.02	719	<1	0.01	4	90	7	0.05	<2	2
JN12018-003		0.72	<10	<1	0.05	10	0.01	198	<1	0.01	8	70	81	0.33	<2	1
JN12018-004		1.00	<10	<1	0.01	10	0.02	581	1	<0.01	3	80	16	0.02	<2	1
JN12018-005		4.05	<10	<1	0.01	10	0.06	2330	<1	<0.01	2	110	13	0.10	<2	1
JN12018-006		3.61	<10	<1	0.22	20	0.25	1145	4	0.01	30	630	19	1.15	<2	3
JN12018-007		1.98	<10	<1	0.04	20	0.09	1065	<1	0.03	4	90	9	0.05	<2	2
JN12018-008		1.52	<10	<1	0.17	10	0.27	464	<1	0.05	9	80	13	0.17	<2	2
JN12018-009		2.15	<10	<1	0.25	10	0.30	422	1	0.09	16	160	17	0.47	<2	3
JN12018-010		0.99	<10	<1	0.16	20	0.08	411	1	0.04	2	460	48	0.15	<2	3
JN12018-011		0.98	<10	<1	0.13	30	0.14	304	<1	0.05	1	470	16	0.06	<2	3
JN12018-012		1.76	<10	<1	0.30	20	0.29	292	<1	0.08	<1	460	13	0.32	<2	4
JN12018-013		3.44	10	<1	0.07	20	0.17	1220	165	0.12	6	630	<2	0.70	<2	3
JN12018-014		3.70	<10	<1	0.09	20	0.17	1770	3610	0.04	10	530	13	1.02	<2	2
JN12018-015		4.61	<10	<1	0.11	30	0.17	2160	1400	0.01	13	530	17	1.24	<2	2
JN12018-016		9.63	<10	<1	0.26	10	0.12	4110	231	0.01	13	370	538	5.26	68	2
JN12018-017		2.64	<10	<1	0.12	60	0.17	1565	283	0.01	6	520	6	0.37	<2	3
JN12018-018		8.49	<10	<1	0.05	40	0.14	2800	33	<0.01	10	520	6	2.67	<2	4
JN12018-019		8.52	<10	<1	0.04	40	0.18	2050	619	<0.01	26	650	10	3.58	<2	7
JN12018-020		15.7	<10	<1	0.02	20	0.44	6550	24	0.01	48	690	5	1.34	<2	10
JN12018-020S		3.82	<10	<1	0.17	10	0.58	779	10	0.16	23	810	9	0.31	2	3
JN12018-020B		0.06	<10	<1	<0.01	<10	1.72	31	1	<0.01	<1	50	<2	0.06	<2	<1
JN12018-021		12.60	<10	<1	0.24	10	0.26	920	308	<0.01	14	430	21	9.87	13	3
JN12018-022		1.74	<10	<1	0.21	20	0.07	272	2	<0.01	1	460	14	0.90	<2	2
JN12018-023		7.39	10	<1	0.28	50	0.19	1850	19	<0.01	14	560	28	2.54	<2	5
JN12018-024		10.55	<10	<1	0.04	20	0.29	4930	1070	<0.01	13	810	8	1.55	<2	8
JN12018-025		16.5	10	<1	0.08	10	0.21	2980	1065	0.02	29	520	19	>10.0	2	4
JN12018-026		5.69	10	<1	0.03	20	0.18	2170	85	0.01	5	400	4	0.31	<2	3
JN12018-027		5.21	10	<1	0.13	30	0.21	1660	146	0.05	12	480	3	0.14	<2	5
JN12018-028		3.62	<10	<1	0.49	30	0.09	285	1	0.01	43	570	59	2.86	<2	2
JN12018-029		2.61	<10	<1	<0.01	20	<0.01	69	2	<0.01	7	130	13	2.42	12	<1
JN12018-030		1.41	<10	<1	0.01	10	<0.01	58	1	<0.01	6	190	9	1.06	12	<1
JN12018-030D		1.47	<10	<1	<0.01	10	<0.01	62	1	<0.01	6	180	9	1.04	10	<1
JN12018-031		1.85	<10	<1	<0.01	20	<0.01	52	<1	<0.01	7	160	10	1.58	10	<1
JN12018-032		1.21	<10	<1	0.09	20	0.18	192	3	0.09	4	240	5	0.22	<2	2
JN12018-033		1.23	<10	<1	0.11	20	0.08	269	1	<0.01	15	410	3	0.10	<2	2
JN12018-034		1.11	<10	<1	0.14	20	0.05	222	<1	<0.01	6	90	2	0.09	<2	1
JN12018-035		1.82	<10	<1	0.13	10	0.14	250	1	0.01	11	110	49	0.26	2	1
JN12018-036		1.09	<10	<1	0.10	10	0.03	191	1	<0.01	5	110	5	0.28	<2	1
JN12018-037		0.89	<10	<1	0.21	10	0.05	176	1	0.01	9	180	9	0.12	<2	1

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Finalized Date: 9- OCT- 2012
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CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46	W- XRF05
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	W
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	1	20	0.01	10	10	1	10	2	0.001	10
JN12018- 001		13	<20	0.02	<10	<10	4	<10	19		
JN12018- 002		4	<20	<0.01	<10	<10	6	<10	17		
JN12018- 003		3	<20	<0.01	<10	<10	4	<10	134		
JN12018- 004		3	<20	<0.01	<10	<10	5	<10	45		
JN12018- 005		7	<20	<0.01	<10	<10	6	<10	64		
JN12018- 006		12	<20	0.01	<10	<10	25	<10	85		
JN12018- 007		19	<20	0.02	<10	<10	10	<10	51		
JN12018- 008		18	<20	0.04	<10	<10	13	<10	38		
JN12018- 009		27	<20	0.05	<10	<10	19	<10	50		
JN12018- 010		15	<20	0.02	<10	<10	9	<10	76		
JN12018- 011		21	<20	0.03	<10	<10	13	<10	28		
JN12018- 012		21	<20	0.08	<10	<10	20	<10	36		
JN12018- 013		124	<20	0.04	<10	<10	15	<10	29		
JN12018- 014		40	<20	0.04	<10	<10	11	<10	24		
JN12018- 015		17	<20	0.03	<10	<10	7	<10	40		
JN12018- 016		113	<20	0.01	<10	<10	3	<10	27		
JN12018- 017		62	20	0.02	<10	<10	7	<10	15		
JN12018- 018		15	20	0.01	<10	10	11	<10	37		
JN12018- 019		25	30	<0.01	<10	10	19	<10	25		
JN12018- 020		14	20	<0.01	<10	<10	32	<10	60		
JN12018- 020S		101	<20	0.11	<10	<10	60	10	62		
JN12018- 020B		4870	<20	<0.01	<10	20	<1	<10	<2		
JN12018- 021		21	<20	<0.01	<10	<10	11	<10	35		
JN12018- 022		5	<20	<0.01	<10	<10	6	<10	63		
JN12018- 023		8	20	<0.01	<10	10	16	<10	73		
JN12018- 024		10	20	<0.01	<10	<10	30	<10	40		
JN12018- 025		16	<20	0.01	<10	<10	17	<10	69		
JN12018- 026		23	<20	0.08	<10	<10	17	<10	25		
JN12018- 027		59	20	0.11	<10	<10	29	<10	46		
JN12018- 028		9	20	<0.01	<10	<10	11	<10	86		
JN12018- 029		4	<20	<0.01	<10	<10	2	<10	32		
JN12018- 030		3	<20	<0.01	<10	<10	3	<10	24		
JN12018- 030D		3	<20	<0.01	<10	<10	3	<10	24		
JN12018- 031		3	<20	<0.01	<10	<10	2	<10	24		
JN12018- 032		30	<20	0.03	<10	<10	12	<10	15		
JN12018- 033		7	<20	<0.01	<10	<10	12	<10	6		
JN12018- 034		4	20	<0.01	<10	<10	7	<10	15		
JN12018- 035		9	<20	0.01	<10	<10	10	60	19		
JN12018- 036		3	<20	<0.01	<10	<10	5	<10	23		
JN12018- 037		2	<20	<0.01	<10	<10	3	<10	38		

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
JN12018-038		3.51	0.006		0.2	0.53	8	10	20	<0.5	11	0.07	<0.5	1	14	17
JN12018-039		2.98	0.010		0.3	0.36	500	10	20	<0.5	4	0.05	1.4	1	11	23
JN12018-040		3.42	0.011		0.4	0.40	168	10	10	<0.5	11	0.06	0.9	1	14	29
JN12018-040S		0.04	1.005		0.6	1.63	1320	30	100	<0.5	26	3.47	<0.5	48	24	133
JN12018-040B		3.93	<0.005		0.2	0.03	3	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1
JN12018-041		6.16	0.046		0.5	0.43	5	<10	20	<0.5	19	0.13	0.5	2	13	74
JN12018-042		5.01	0.275		0.4	0.62	2	<10	20	0.5	181	0.31	<0.5	6	15	88
JN12018-043		3.27	0.077		0.2	0.43	<2	<10	<10	<0.5	52	0.11	<0.5	1	14	20
JN12018-044		5.58	0.041		0.2	0.32	<2	<10	<10	<0.5	38	0.11	<0.5	2	11	25
JN12018-045		3.89	0.093		0.2	0.28	<2	<10	10	0.5	89	0.40	<0.5	5	14	67
JN12018-046		1.06	0.089		<0.2	1.44	5	<10	20	2.1	69	1.18	<0.5	26	39	277
JN12018-047		6.12	0.029		<0.2	1.42	5	<10	20	1.4	21	1.99	<0.5	14	22	71
JN12018-048		5.63	0.032		0.8	1.97	4	10	50	1.5	40	3.69	1.0	7	25	179
JN12018-049		5.83	0.207		<0.2	3.89	4	10	70	1.2	136	4.18	<0.5	5	33	32
JN12018-050		6.80	0.047		0.5	1.89	3	10	60	1.1	49	2.59	1.1	11	30	190
JN12018-051		6.37	0.286		0.5	1.79	3	<10	20	1.2	313	3.78	<0.5	9	10	341
JN12018-052		4.22	0.192		0.4	0.80	5	<10	20	4.4	215	2.45	<0.5	14	18	143
JN12018-053		3.54	0.069		0.2	1.31	6	10	30	2.6	130	1.89	<0.5	7	32	58
JN12018-054		2.49	0.067		7.3	0.44	13	10	20	1.3	204	0.66	0.8	62	9	1495
JN12018-055		5.91	0.136		1.1	0.85	4	10	30	3.1	269	2.03	0.5	13	14	351
JN12018-056		4.45	0.468		0.4	0.81	6	10	30	3.7	528	3.17	<0.5	7	14	164
JN12018-057		5.60	0.140		0.2	0.97	4	10	30	3.2	279	2.45	<0.5	7	17	140
JN12018-058		2.48	0.042		0.5	0.24	9	10	20	3.3	127	1.31	1.5	10	4	703
JN12018-059		5.05	0.233		1.2	0.46	26	10	30	3.1	608	2.01	<0.5	19	7	740
JN12018-060		4.71	0.961		0.4	1.00	5	<10	30	2.9	393	2.28	<0.5	2	14	152
JN12018-060D		<0.02	0.973		0.4	1.05	5	<10	30	3.0	420	2.37	<0.5	3	14	149
JN12018-060S		0.04	4.45		60.1	1.88	1050	<10	190	<0.5	2	1.06	<0.5	9	20	101
JN12018-060B		4.04	0.005		0.2	0.04	<2	<10	10	<0.5	6	>25.0	<0.5	<1	<1	1
JN12018-061		3.28	0.100		0.2	0.80	7	10	40	3.4	212	2.56	<0.5	5	10	191
JN12018-062		5.98	0.151		0.5	0.73	8	10	20	1.4	289	3.68	<0.5	2	7	456
JN12018-063		4.05	0.633		0.8	1.15	17	10	10	0.7	794	5.63	<0.5	7	8	682
JN12018-064		4.45	0.719		0.9	1.59	3	10	10	2.6	755	4.97	<0.5	13	14	451
JN12018-065		3.53	0.390		1.5	1.10	6	10	10	4.7	419	2.58	<0.5	38	18	1250
JN12018-066		5.55	0.159		0.3	0.34	8	10	10	0.8	137	2.93	2.0	3	2	227
JN12018-067		2.89	0.101		0.4	0.42	9	10	40	3.6	171	5.86	<0.5	6	5	407
JN12018-068		2.90	0.023		0.2	0.29	6	<10	10	0.5	56	0.93	1.6	2	4	339
JN12018-069		1.29	0.093		5.1	0.32	37	<10	30	2.8	356	2.89	1.3	36	4	3210
JN12018-070		5.70	0.092		0.8	0.35	9	<10	10	1.0	348	2.83	<0.5	47	6	1845
JN12018-071		7.96	3.83		0.5	0.33	2	30	<10	0.6	464	1.82	<0.5	3	7	69
JN12018-072		7.14	0.851		<0.2	0.61	<2	<10	<10	0.8	88	3.15	<0.5	3	3	40

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
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CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12018-038		0.68	<10	<1	0.22	10	0.04	141	1	0.01	8	160	5	0.05	<2	1
JN12018-039		0.80	<10	<1	0.17	10	0.04	128	<1	0.01	6	90	9	0.20	<2	1
JN12018-040		1.12	<10	<1	0.15	10	0.05	171	1	0.01	6	70	10	0.38	<2	1
JN12018-040S		3.70	10	<1	0.17	10	0.57	741	10	0.17	24	820	9	0.29	3	3
JN12018-040B		0.04	<10	1	<0.01	<10	1.60	21	<1	0.01	<1	50	<2	0.04	<2	<1
JN12018-041		1.71	<10	<1	0.16	10	0.08	403	1	0.01	7	60	14	0.48	<2	1
JN12018-042		3.10	<10	<1	0.15	20	0.13	945	3	0.01	17	390	10	0.69	2	4
JN12018-043		1.28	<10	<1	0.05	10	0.04	361	2	0.01	4	130	5	0.08	<2	2
JN12018-044		1.03	<10	<1	0.04	20	0.03	241	<1	0.01	6	150	3	0.13	<2	2
JN12018-045		4.35	<10	<1	0.07	10	0.12	1465	1	0.01	14	130	4	0.32	<2	2
JN12018-046		8.47	10	<1	0.07	50	0.31	2520	6	0.01	52	1070	6	1.05	<2	14
JN12018-047		2.44	10	<1	0.16	50	0.27	469	1	0.01	43	760	5	0.62	<2	7
JN12018-048		4.09	10	<1	0.30	40	0.35	848	2	0.05	30	530	16	1.29	<2	6
JN12018-049		2.85	10	<1	0.34	30	0.58	614	1	0.22	24	800	6	0.24	<2	4
JN12018-050		3.76	10	<1	0.53	30	0.58	633	3	0.06	34	410	13	1.66	<2	5
JN12018-051		6.55	10	<1	0.27	20	0.22	1245	2	0.10	13	520	5	1.70	<2	5
JN12018-052		26.7	10	<1	0.03	10	0.40	8280	15	0.01	13	160	<2	1.58	<2	4
JN12018-053		21.5	10	<1	0.05	40	0.47	7170	58	0.02	12	250	7	1.18	<2	9
JN12018-054		21.3	10	<1	0.16	<10	0.20	2630	<1	0.01	37	300	145	>10.0	15	3
JN12018-055		25.7	10	<1	0.06	10	0.57	7970	1	0.02	13	330	8	1.64	<2	5
JN12018-056		32.1	20	<1	<0.01	10	0.48	9520	<1	0.01	2	400	<2	0.55	<2	3
JN12018-057		32.2	20	<1	<0.01	<10	0.64	9050	<1	0.02	6	330	<2	0.57	4	4
JN12018-058		41.5	30	<1	<0.01	<10	0.31	3990	<1	0.01	10	460	<2	4.61	4	4
JN12018-059		31.0	10	<1	0.02	<10	0.66	8280	<1	0.02	6	570	4	4.44	15	9
JN12018-060		30.7	10	<1	0.01	10	0.72	8160	<1	0.02	4	150	<2	2.03	<2	7
JN12018-060D		31.1	10	<1	0.01	10	0.75	8320	<1	0.02	2	150	<2	1.88	<2	6
JN12018-060S		3.59	10	<1	0.26	10	0.79	486	8	0.23	13	610	8	0.12	15	3
JN12018-060B		0.18	<10	<1	<0.01	<10	1.73	55	<1	0.01	<1	50	<2	0.06	<2	<1
JN12018-061		34.5	20	<1	<0.01	10	0.66	8960	<1	0.02	2	260	<2	0.85	<2	3
JN12018-062		33.8	30	<1	0.14	<10	0.08	1870	<1	0.08	<1	250	<2	1.91	<2	1
JN12018-063		21.8	20	<1	0.23	<10	0.06	1680	<1	0.12	2	120	<2	3.10	<2	1
JN12018-064		13.00	20	<1	0.22	<10	0.12	2420	<1	0.12	1	100	3	2.92	<2	2
JN12018-065		22.5	20	<1	0.15	10	0.23	2510	<1	0.03	17	140	<2	>10.0	<2	3
JN12018-066		39.7	20	1	0.06	<10	0.05	1170	<1	0.04	11	200	<2	1.11	<2	<1
JN12018-067		34.4	10	<1	<0.01	<10	0.29	5440	<1	0.02	2	330	<2	2.11	<2	1
JN12018-068		44.1	30	<1	0.07	<10	0.05	835	<1	0.04	<1	210	11	1.28	<2	<1
JN12018-069		30.8	20	<1	0.01	<10	0.26	6250	<1	0.01	<1	240	49	9.79	<2	1
JN12018-070		21.8	20	<1	0.09	<10	0.17	1635	<1	0.07	8	200	4	6.81	<2	<1
JN12018-071		3.99	10	<1	0.09	<10	0.16	1045	<1	0.04	3	210	3	0.31	<2	<1
JN12018-072		5.86	10	<1	0.13	<10	0.19	1495	<1	0.07	1	400	2	0.28	<2	<1

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CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46	W- XRF05
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	W
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	1	20	0.01	10	10	1	10	2	0.001	10
JN12018- 038		3	<20	<0.01	<10	<10	4	<10	44		
JN12018- 039		2	<20	<0.01	<10	<10	3	<10	147		
JN12018- 040		3	<20	<0.01	<10	<10	5	<10	105		
JN12018- 040S		105	<20	0.10	<10	<10	59	10	62		
JN12018- 040B		5030	<20	<0.01	<10	10	<1	<10	<2		
JN12018- 041		6	<20	<0.01	<10	<10	6	<10	76		
JN12018- 042		13	<20	<0.01	<10	<10	14	<10	47		
JN12018- 043		3	<20	<0.01	<10	<10	7	<10	22		
JN12018- 044		5	<20	<0.01	<10	<10	7	<10	16		
JN12018- 045		9	<20	<0.01	<10	<10	12	<10	23		
JN12018- 046		31	20	<0.01	<10	<10	71	<10	133		
JN12018- 047		30	20	0.01	<10	<10	29	<10	40		
JN12018- 048		95	20	0.03	<10	<10	35	<10	129		
JN12018- 049		269	<20	0.15	<10	<10	41	<10	32		
JN12018- 050		64	<20	0.05	<10	<10	41	<10	147		
JN12018- 051		32	<20	0.07	<10	<10	23	<10	36		
JN12018- 052		25	<20	0.01	<10	<10	25	<10	133		
JN12018- 053		20	<20	0.01	<10	<10	50	<10	76		
JN12018- 054		5	<20	<0.01	<10	<10	12	10	83		
JN12018- 055		19	<20	<0.01	<10	<10	27	<10	99		
JN12018- 056		26	<20	0.01	<10	<10	18	<10	163		
JN12018- 057		18	<20	0.01	<10	<10	20	<10	152		
JN12018- 058		12	<20	0.01	<10	<10	8	<10	63		
JN12018- 059		16	<20	<0.01	<10	<10	18	10	98		
JN12018- 060		17	<20	0.01	<10	<10	22	<10	96		
JN12018- 060D		18	<20	0.01	<10	<10	22	<10	102		
JN12018- 060S		91	<20	0.14	<10	<10	93	<10	54		
JN12018- 060B		5410	<20	<0.01	<10	10	<1	<10	<2		
JN12018- 061		30	<20	0.01	<10	<10	17	<10	132		
JN12018- 062		11	<20	0.04	<10	<10	11	10	45		
JN12018- 063		7	<20	0.05	<10	<10	11	20	35		
JN12018- 064		11	<20	0.05	<10	<10	16	<10	56		
JN12018- 065		11	<20	0.04	<10	<10	19	<10	52		
JN12018- 066		4	<20	0.02	<10	<10	4	<10	42		
JN12018- 067		27	<20	0.01	<10	<10	8	10	100		
JN12018- 068		3	<20	0.03	<10	<10	7	<10	45		
JN12018- 069		21	<20	0.01	<10	<10	5	<10	98		
JN12018- 070		5	<20	0.02	<10	<10	3	<10	35		
JN12018- 071		8	<20	0.01	<10	<10	2	<10	21		
JN12018- 072		9	<20	0.02	<10	<10	4	<10	30		

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CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
JN12018- 073		8.79	2.03		<0.2	0.55	2	<10	<10	<0.5	132	4.62	<0.5	2	4	34
JN12018- 074		4.54	1.925		2.4	1.34	<2	<10	10	4.2	261	2.49	0.6	72	11	1770
JN12018- 075		2.07	0.655		10.7	1.04	4	<10	10	3.5	114	4.38	3.0	121	9	>10000
JN12018- 076		4.30	0.459		0.4	1.08	3	<10	<10	1.1	28	9.2	<0.5	11	6	287
JN12018- 077		3.79	1.725		0.8	1.21	<2	<10	10	3.6	123	5.20	0.5	46	9	1175
JN12018- 078		1.75	4.05		1.0	1.12	4	<10	<10	2.7	306	2.72	<0.5	14	9	1040
JN12018- 079		1.74	0.945		1.7	1.40	<2	<10	10	3.4	154	1.88	0.8	116	15	2310
JN12018- 080		7.78	0.542		<0.2	2.28	<2	<10	10	0.5	21	6.73	<0.5	2	20	22
JN12018- 080S		0.04	4.24		56.7	1.95	1055	<10	190	<0.5	<2	1.10	<0.5	10	21	108
JN12018- 080B		4.42	0.005		<0.2	0.04	<2	<10	10	<0.5	4	>25.0	<0.5	<1	<1	12
JN12018- 081		8.30	0.416		<0.2	2.33	4	<10	10	0.7	14	5.27	<0.5	2	21	11
JN12018- 082		3.23	0.284		0.2	1.77	2	<10	30	3.3	8	3.05	<0.5	4	45	5
JN12018- 083		3.23	0.096		<0.2	1.35	<2	<10	20	2.0	9	1.61	<0.5	8	47	128
JN12018- 084		1.58	0.264		1.7	1.74	26	<10	20	2.1	114	0.90	<0.5	56	7	891
JN12018- 085		3.39	3.07		0.4	1.62	<2	<10	30	2.7	59	2.05	0.9	11	34	91
JN12018- 086		1.30	2.41		0.4	1.36	5	<10	20	5.0	46	6.54	0.9	9	30	316
JN12018- 087		4.49	0.533		<0.2	2.34	<2	<10	10	0.6	17	8.1	<0.5	1	16	3
JN12018- 088		5.63	0.095		<0.2	1.67	<2	<10	30	0.7	7	4.10	<0.5	2	13	61
JN12018- 089		1.62	0.205		<0.2	0.55	7	<10	30	0.7	18	1.76	0.9	4	8	47
JN12018- 090		3.93	0.217		<0.2	0.52	23	10	10	1.9	9	1.26	1.3	7	7	45
JN12018- 090D		2.07	6.91		0.8	0.29	9	<10	10	5.6	1330	2.43	1.1	11	13	116
JN12018- 091		2.89	1.965		<0.2	0.50	18	<10	20	6.1	27	2.17	0.9	16	10	158
JN12018- 092		2.69	0.264		0.7	0.32	4	<10	10	1.7	17	1.09	0.8	9	12	620
JN12018- 093		1.51	1.185		43.1	0.53	14	<10	10	1.1	972	0.26	8.1	92	10	>10000
JN12018- 094		2.60	1.225		32.0	1.42	11	<10	20	1.8	676	0.19	8.1	76	12	>10000
JN12018- 095		4.12	0.464		1.5	0.60	27	<10	10	3.7	68	0.98	<0.5	55	17	3250
JN12018- 096		5.78	0.350		7.9	1.80	8	<10	20	3.5	14	0.97	1.3	42	30	8460
JN12018- 097		5.56	1.485		0.3	1.60	2	<10	30	3.1	45	2.38	0.7	13	40	158
JN12018- 098		4.22	2.05		0.4	2.19	5	<10	30	2.9	263	2.38	0.5	4	35	84
JN12018- 099		4.68	0.776		<0.2	1.47	4	<10	30	3.2	7	2.43	<0.5	6	26	47
JN12018- 100		<0.02	0.730		<0.2	1.48	4	<10	30	3.4	9	2.62	1.2	7	25	45
JN12018- 100S		0.04	0.949		0.4	1.69	1370	30	90	<0.5	26	3.79	<0.5	48	25	143
JN12018- 100B		5.55	<0.005		<0.2	0.02	3	<10	<10	<0.5	4	>25.0	<0.5	<1	<1	3
JN12018- 101		4.44	1.145		0.2	0.87	4	10	10	3.6	55	2.57	0.9	6	21	20
JN12018- 102		6.11	0.349		<0.2	0.63	<2	<10	10	2.8	4	1.92	<0.5	6	16	11
JN12018- 103		4.31	0.956		<0.2	0.69	3	10	10	3.3	15	2.19	0.6	9	15	7
JN12018- 104		3.98	0.992		<0.2	0.44	3	<10	10	3.1	14	1.75	<0.5	8	15	29
JN12018- 105		4.24	0.712		<0.2	0.52	2	<10	10	3.5	18	1.97	0.5	10	15	27
JN12018- 106		4.33	0.551		<0.2	1.17	3	<10	10	3.2	16	1.94	0.6	12	22	34
JN12018- 107		4.45	0.389		<0.2	0.67	4	10	20	4.6	17	2.41	1.0	18	13	131

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12018-073		6.61	10	1	0.10	<10	0.15	1160	<1	0.05	<1	170	<2	0.48	<2	<1
JN12018-074		20.1	10	<1	0.34	<10	0.72	1495	<1	0.03	2	240	16	>10.0	<2	1
JN12018-075		25.8	10	<1	0.10	<10	0.33	1335	<1	0.02	<1	240	17	>10.0	<2	1
JN12018-076		9.96	10	<1	0.13	<10	0.13	1740	1	0.07	<1	400	2	1.96	<2	1
JN12018-077		25.8	20	1	0.16	<10	0.13	2060	26	0.07	1	330	5	>10.0	<2	1
JN12018-078		14.3	20	<1	0.23	<10	0.13	1740	2	0.14	1	200	2	3.14	<2	1
JN12018-079		32.2	10	<1	0.15	<10	0.22	1140	3	0.05	7	150	9	>10.0	<2	2
JN12018-080		12.20	10	<1	0.33	<10	0.14	2340	18	0.20	4	490	2	0.09	<2	3
JN12018-080S		3.67	<10	<1	0.27	10	0.81	513	9	0.23	14	600	8	0.14	14	3
JN12018-080B		0.16	<10	<1	<0.01	<10	1.89	30	<1	0.01	1	50	<2	0.14	<2	<1
JN12018-081		7.02	10	<1	0.35	10	0.15	1935	16	0.20	3	130	<2	0.06	<2	3
JN12018-082		21.6	10	<1	0.04	40	0.43	7570	<1	0.01	2	170	4	0.07	<2	10
JN12018-083		18.9	10	<1	0.08	30	0.41	5750	1	0.01	9	170	5	1.33	<2	11
JN12018-084		21.3	10	<1	0.18	10	0.20	2150	5	0.01	29	360	38	>10.0	31	8
JN12018-085		25.2	10	<1	0.03	20	0.59	8350	10	0.01	5	300	7	1.01	<2	9
JN12018-086		21.8	10	<1	0.01	10	0.30	7420	3	0.01	2	210	5	0.37	<2	7
JN12018-087		9.45	20	<1	0.33	<10	0.06	2380	2	0.18	<1	110	2	0.02	<2	2
JN12018-088		14.3	20	<1	0.30	<10	0.09	1885	60	0.17	8	260	2	0.21	<2	2
JN12018-089		35.3	40	<1	0.11	<10	0.07	1560	15	0.07	28	610	6	0.23	<2	1
JN12018-090		40.2	40	<1	0.10	<10	0.09	6630	4	0.08	<1	370	9	0.24	<2	1
JN12018-090D		30.6	20	1	0.01	<10	0.24	7890	1	0.01	<1	470	6	0.66	<2	2
JN12018-091		27.7	20	<1	0.01	<10	0.27	10500	6	0.01	3	520	6	0.95	<2	1
JN12018-092		15.7	10	<1	0.01	<10	0.34	5380	32	0.01	2	260	2	0.79	<2	1
JN12018-093		17.8	10	<1	0.02	50	0.07	1160	56	<0.01	25	150	4	>10.0	25	3
JN12018-094		13.50	10	1	0.16	60	0.08	688	66	0.01	21	260	20	>10.0	5	5
JN12018-095		22.7	10	<1	0.01	10	0.21	3290	50	0.01	12	300	5	>10.0	11	7
JN12018-096		17.7	20	<1	0.07	30	0.30	3920	64	0.01	11	370	4	5.08	<2	6
JN12018-097		25.7	10	<1	0.02	10	0.49	9360	66	0.01	10	370	7	1.38	<2	11
JN12018-098		30.2	20	<1	<0.01	10	0.54	8830	29	0.01	4	650	8	4.43	<2	17
JN12018-099		29.2	10	<1	0.05	10	0.55	8970	8	0.01	4	490	7	3.66	<2	14
JN12018-100		30.8	10	<1	0.05	10	0.59	9450	8	0.01	3	550	7	3.76	<2	14
JN12018-100S		3.87	<10	<1	0.18	10	0.59	810	9	0.17	27	810	13	0.31	<2	3
JN12018-100B		0.06	<10	<1	<0.01	<10	1.72	29	<1	<0.01	1	50	<2	0.06	<2	<1
JN12018-101		29.5	20	<1	<0.01	10	0.55	9540	39	0.01	<1	370	7	3.03	<2	17
JN12018-102		22.7	10	<1	<0.01	<10	0.50	8010	36	0.01	<1	320	2	0.69	<2	9
JN12018-103		26.1	10	<1	0.01	<10	0.58	9360	45	0.01	2	260	2	1.23	<2	10
JN12018-104		21.4	10	<1	<0.01	<10	0.52	7860	13	<0.01	<1	250	2	0.32	<2	2
JN12018-105		24.1	10	<1	<0.01	<10	0.46	9200	4	<0.01	1	280	3	1.75	<2	12
JN12018-106		25.6	20	<1	0.02	10	0.67	9910	38	<0.01	1	170	2	0.55	<2	5
JN12018-107		33.7	20	<1	<0.01	<10	0.69	11400	40	0.01	1	860	2	0.76	<2	2

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46	W- XRF05
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	W
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	1	20	0.01	10	10	1	10	2	0.001	10
JN12018- 073		6	<20	0.02	<10	<10	4	<10	19		
JN12018- 074		9	<20	0.02	<10	<10	9	20	68		
JN12018- 075		7	<20	0.02	<10	<10	9	20	158	1.140	
JN12018- 076		10	<20	0.03	<10	<10	8	10	25		
JN12018- 077		8	<20	0.04	<10	<10	10	10	29		
JN12018- 078		6	<20	0.03	<10	<10	9	<10	39		
JN12018- 079		6	<20	0.02	<10	<10	16	10	19		
JN12018- 080		20	<20	0.08	<10	<10	22	<10	40		
JN12018- 080S		94	<20	0.15	<10	<10	92	<10	53		
JN12018- 080B		5080	<20	<0.01	<10	10	1	<10	<2		
JN12018- 081		40	<20	0.10	<10	<10	25	<10	43		
JN12018- 082		23	<20	0.01	<10	<10	52	<10	88		
JN12018- 083		25	<20	0.01	<10	10	65	<10	57		
JN12018- 084		7	<20	0.01	10	<10	26	10	27		
JN12018- 085		18	<20	0.01	<10	<10	51	<10	85		
JN12018- 086		26	<20	0.02	<10	<10	32	<10	117		
JN12018- 087		9	<20	0.07	<10	<10	20	<10	40		
JN12018- 088		18	<20	0.06	<10	<10	16	<10	40		
JN12018- 089		9	<20	0.05	<10	<10	12	<10	45		
JN12018- 090		8	<20	0.03	<10	<10	9	<10	89		
JN12018- 090D		17	<20	0.01	<10	<10	13	<10	114		
JN12018- 091		22	<20	0.01	<10	<10	11	<10	125		
JN12018- 092		7	<20	<0.01	<10	<10	10	<10	101		
JN12018- 093		6	<20	<0.01	<10	<10	20	130	958	3.56	
JN12018- 094		18	<20	0.01	<10	<10	21	10	630	2.20	
JN12018- 095		11	<20	<0.01	<10	<10	26	10	50		
JN12018- 096		11	<20	0.01	<10	<10	40	<10	194		
JN12018- 097		25	<20	0.01	<10	<10	57	<10	103		
JN12018- 098		22	<20	0.01	<10	<10	65	<10	84		
JN12018- 099		23	<20	0.01	<10	<10	49	<10	84		
JN12018- 100		24	<20	0.01	<10	<10	49	<10	91		
JN12018- 100S		106	<20	0.12	<10	<10	62	10	68		
JN12018- 100B		4880	<20	<0.01	<10	20	<1	<10	2		
JN12018- 101		31	<20	0.01	<10	<10	48	10	96		
JN12018- 102		15	<20	<0.01	<10	<10	26	<10	82		
JN12018- 103		16	<20	0.01	<10	<10	32	10	101		
JN12018- 104		11	<20	<0.01	<10	<10	12	<10	94		
JN12018- 105		14	<20	0.01	<10	<10	31	10	82		
JN12018- 106		13	<20	0.01	<10	<10	28	10	98		
JN12018- 107		19	<20	0.01	10	<10	16	10	136		

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1
JN12018-108		4.59	0.223		0.2	0.85	4	10	10	5.0	12	2.43	1.1	11	17	67
JN12018-109		2.57	0.304		<0.2	0.83	<2	<10	<10	8.2	11	3.19	0.5	14	19	101
JN12018-110		7.03	1.875		<0.2	1.42	6	10	<10	1.0	13	3.07	<0.5	3	14	7
JN12018-111		5.25	0.526		<0.2	0.90	13	10	<10	1.1	8	1.80	<0.5	5	13	34
JN12018-112		5.63	0.832		0.2	0.96	2	10	<10	1.3	36	1.96	<0.5	5	10	14
JN12018-113		5.12	0.693		<0.2	1.27	<2	10	<10	1.9	50	2.80	<0.5	9	11	171
JN12018-114		5.29	0.053		<0.2	1.12	<2	<10	<10	1.1	3	2.91	<0.5	2	9	3
JN12018-115		4.81	0.070		<0.2	2.70	19	10	30	1.1	7	2.78	<0.5	1	36	24
JN12018-116		5.20	0.512		<0.2	1.58	<2	10	<10	2.4	105	3.02	<0.5	3	16	34
JN12018-117		4.83	0.020		<0.2	1.32	<2	<10	<10	1.6	7	3.07	<0.5	2	12	3
JN12018-118		5.46	0.156		1.8	1.62	2440	<10	10	2.0	120	3.04	<0.5	4	19	13
JN12018-119		1.36	1.040		22.4	0.50	>10000	<10	10	2.7	839	1.06	0.8	60	14	239
JN12018-120		2.76	0.005		0.2	1.61	52	<10	10	3.1	9	1.38	<0.5	10	41	28
JN12018-120D		<0.02	0.006		0.2	1.13	92	<10	10	3.1	5	1.40	<0.5	11	40	29
JN12018-120S		0.04	4.11		56.6	1.96	1035	<10	180	<0.5	3	1.11	<0.5	9	20	104
JN12018-120B		6.35	<0.005		<0.2	0.06	<2	<10	<10	<0.5	3	>25.0	<0.5	<1	<1	1
JN12018-121		3.65	0.016		<0.2	0.91	4	<10	10	3.8	4	2.07	0.7	9	28	7
JN12018-122		1.81	0.048		0.6	0.74	1080	10	20	2.7	16	1.03	<0.5	15	20	352
JN12018-123		1.26	0.032		0.2	0.87	<2	<10	<10	2.9	9	1.34	<0.5	9	23	24
JN12018-124		2.65	1.495		4.2	0.53	22	<10	<10	2.4	714	0.70	<0.5	14	23	753
JN12018-125		3.23	2.40		7.3	0.88	>10000	10	10	3.2	619	0.86	<0.5	77	20	642
JN12018-126		2.44	0.397		0.3	1.01	33	<10	10	3.3	52	1.77	<0.5	9	27	14
JN12018-127		1.28	0.073		0.7	1.79	104	10	10	5.7	36	1.66	0.5	23	30	421
JN12018-128		1.84	0.070		<0.2	1.00	2	<10	10	5.9	15	2.50	0.6	7	29	8
JN12018-129		2.20	0.023		<0.2	1.73	10	<10	<10	5.1	8	5.60	<0.5	2	34	12
JN12018-130		1.32	2.25		0.4	1.61	8	10	<10	3.3	276	3.13	<0.5	3	16	140
JN12018-131		2.95	0.148		<0.2	1.57	13	10	10	2.2	21	3.42	<0.5	2	19	61
JN12018-132		4.71	0.205		<0.2	1.01	3	<10	<10	2.2	22	3.56	<0.5	1	9	2
JN12018-133		2.66	0.352		<0.2	1.17	5	<10	20	5.7	61	4.33	<0.5	4	13	29
JN12018-134		3.82	0.497		<0.2	0.95	2	<10	<10	1.3	105	0.76	<0.5	2	4	53
JN12018-135		3.38	0.056		0.2	1.14	7	<10	<10	0.6	214	0.14	<0.5	2	6	34
JN12018-136		1.71	0.500		<0.2	1.55	3	<10	10	2.6	105	0.98	<0.5	6	3	170
JN12018-137		4.35	0.457		<0.2	0.26	<2	<10	20	5.3	66	2.88	<0.5	10	5	17
JN12018-138		4.83	0.140		<0.2	0.24	3	<10	<10	2.1	24	1.71	<0.5	4	2	65
JN12018-139		5.41	0.913		0.3	0.19	3	<10	<10	2.6	314	1.80	<0.5	4	3	49
JN12018-140		2.26	0.578		62.7	0.25	826	<10	10	4.5	2030	0.74	2.4	28	12	1090
JN12018-140S		0.04	4.21		58.3	1.92	1025	<10	200	<0.5	4	1.15	<0.5	10	20	108
JN12018-140B		5.25	0.005		<0.2	0.03	4	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2
JN12018-141		2.43	0.382		19.6	0.05	50	<10	<10	0.7	1920	0.38	1.0	12	20	924
JN12018-142		0.96	0.444		1.2	0.13	15	<10	10	3.8	180	1.36	<0.5	11	17	156

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12018-108		32.8	20	<1	0.01	<10	0.53	10200	14	0.01	5	220	5	0.33	<2	2
JN12018-109		27.0	10	<1	0.02	10	0.32	9960	14	0.01	2	260	3	0.47	<2	4
JN12018-110		12.80	10	<1	0.31	<10	0.13	3450	3	0.20	<1	280	<2	0.05	<2	2
JN12018-111		11.20	10	<1	0.22	<10	0.11	3870	19	0.15	2	130	<2	0.17	<2	1
JN12018-112		23.3	20	<1	0.23	<10	0.09	3800	4	0.17	2	240	<2	0.09	<2	1
JN12018-113		18.6	30	<1	0.30	<10	0.10	2060	20	0.21	3	130	<2	0.86	2	1
JN12018-114		6.65	20	<1	0.22	10	0.14	1920	12	0.14	<1	160	<2	0.02	<2	1
JN12018-115		3.14	10	<1	0.46	20	0.51	859	37	0.19	11	130	<2	0.15	<2	5
JN12018-116		6.75	20	<1	0.36	10	0.12	1610	39	0.21	2	200	<2	0.19	<2	2
JN12018-117		4.63	10	<1	0.20	10	0.15	1475	14	0.13	2	760	<2	0.03	<2	1
JN12018-118		4.38	10	<1	0.24	10	0.23	1270	17	0.15	5	160	47	0.22	5	2
JN12018-119		18.9	<10	<1	0.10	10	0.24	5330	7	0.01	8	70	605	6.30	85	4
JN12018-120		16.0	10	<1	0.03	20	0.41	6900	43	0.01	19	250	5	0.34	<2	8
JN12018-120D		16.6	10	<1	0.03	20	0.42	7180	47	0.01	20	270	5	0.37	<2	9
JN12018-120S		3.73	10	<1	0.27	10	0.82	508	9	0.24	13	610	7	0.14	13	3
JN12018-120B		0.10	<10	<1	<0.01	<10	1.92	43	<1	0.01	<1	50	<2	0.07	<2	<1
JN12018-121		25.1	10	<1	0.02	10	0.69	10300	18	0.01	8	180	3	0.21	<2	9
JN12018-122		17.8	10	<1	0.20	20	0.34	4970	24	0.01	16	160	9	4.88	3	5
JN12018-123		16.2	10	<1	0.01	<10	0.43	6390	2	<0.01	8	140	2	0.49	<2	7
JN12018-124		12.80	10	<1	0.09	50	0.51	3450	25	<0.01	9	130	40	3.01	17	8
JN12018-125		18.5	10	<1	0.16	20	0.55	3800	19	<0.01	16	220	79	7.45	48	7
JN12018-126		20.5	10	<1	0.01	10	0.61	7800	12	0.01	7	640	3	0.19	<2	5
JN12018-127		24.7	30	<1	0.03	10	0.54	7620	16	<0.01	8	220	6	3.83	3	5
JN12018-128		24.1	10	<1	0.02	20	0.66	9420	3	0.01	5	200	3	0.13	<2	6
JN12018-129		9.71	10	<1	0.03	40	0.29	3930	26	0.01	2	260	<2	0.09	<2	8
JN12018-130		3.90	10	<1	0.11	20	0.13	925	48	0.12	3	170	<2	0.89	<2	1
JN12018-131		3.77	10	<1	0.22	10	0.22	1085	63	0.16	6	210	<2	0.54	<2	2
JN12018-132		4.10	10	<1	0.17	10	0.11	1440	1	0.10	2	410	2	0.02	<2	1
JN12018-133		10.10	10	<1	0.06	30	0.33	4240	41	0.02	3	170	3	0.20	<2	5
JN12018-134		3.39	10	<1	0.03	20	0.09	1075	52	0.01	1	220	4	0.27	<2	3
JN12018-135		2.09	<10	<1	0.06	30	0.05	323	15	<0.01	2	170	10	1.20	6	2
JN12018-136		11.40	10	<1	0.06	40	0.54	4610	17	<0.01	6	330	4	0.61	<2	7
JN12018-137		18.4	10	<1	0.03	<10	0.60	8310	14	0.02	2	310	3	0.11	<2	1
JN12018-138		3.76	10	<1	0.05	<10	0.37	1100	6	0.03	2	370	<2	0.32	<2	<1
JN12018-139		5.11	10	<1	0.03	<10	0.37	1650	8	0.02	3	270	5	0.21	<2	<1
JN12018-140		15.5	10	<1	0.04	10	0.31	2140	136	0.01	22	160	1665	8.25	81	2
JN12018-140S		3.86	10	<1	0.28	10	0.85	512	8	0.24	14	630	7	0.14	16	3
JN12018-140B		0.07	<10	<1	<0.01	<10	1.78	37	<1	0.01	<1	50	<2	0.05	2	<1
JN12018-141		9.91	<10	<1	0.01	<10	0.14	906	18	<0.01	7	200	877	8.97	79	1
JN12018-142		19.6	<10	<1	<0.01	10	1.00	7520	7	<0.01	6	610	13	1.88	18	9

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Cu- OG46	W- XRF05
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	W
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOR	1	20	0.01	10	10	1	10	2	0.001	10
JN12018-108		21	<20	0.01	<10	<10	19	10	142		
JN12018-109		25	<20	0.01	<10	<10	22	<10	169		
JN12018-110		6	<20	0.07	<10	<10	17	10	57		
JN12018-111		13	<20	0.05	<10	<10	12	<10	49		
JN12018-112		5	<20	0.05	<10	<10	13	<10	60		
JN12018-113		5	<20	0.06	<10	<10	15	90	47		
JN12018-114		13	<20	0.05	<10	<10	11	30	36		
JN12018-115		215	<20	0.15	<10	<10	41	10	31		
JN12018-116		26	<20	0.08	<10	<10	17	80	43		
JN12018-117		36	<20	0.08	<10	<10	16	10	35		
JN12018-118		76	<20	0.09	<10	<10	20	20	34		
JN12018-119		16	<20	<0.01	<10	<10	18	20	71		
JN12018-120		13	<20	0.01	<10	<10	57	<10	78		
JN12018-120D		13	<20	0.01	<10	<10	57	<10	80		
JN12018-120S		94	<20	0.15	<10	<10	93	<10	53		
JN12018-120B		5080	<20	<0.01	<10	20	<1	<10	<2		
JN12018-121		23	<20	0.01	<10	<10	41	<10	100		
JN12018-122		12	<20	0.01	<10	<10	27	20	64		
JN12018-123		11	<20	0.01	<10	<10	30	10	67		
JN12018-124		10	<20	<0.01	<10	<10	38	80	73		
JN12018-125		12	<20	<0.01	<10	<10	31	170	62		
JN12018-126		15	<20	0.01	<10	<10	35	20	108		
JN12018-127		12	<20	0.01	<10	<10	37	20	112		
JN12018-128		25	<20	<0.01	<10	<10	37	10	127		
JN12018-129		44	20	0.01	<10	<10	41	170	68		
JN12018-130		135	<20	0.08	<10	<10	14	1600	21		2870
JN12018-131		120	<20	0.10	<10	<10	20	50	23		
JN12018-132		13	<20	0.06	<10	10	10	340	26		
JN12018-133		37	<20	0.02	<10	<10	25	150	62		
JN12018-134		5	<20	<0.01	<10	<10	8	20	20		
JN12018-135		7	<20	<0.01	<10	<10	5	10	16		
JN12018-136		10	<20	<0.01	<10	<10	22	10	67		
JN12018-137		13	<20	<0.01	<10	<10	11	80	107		
JN12018-138		5	<20	0.01	<10	<10	3	50	22		
JN12018-139		6	<20	0.01	<10	<10	3	260	35		
JN12018-140		14	<20	<0.01	<10	10	8	350	52		
JN12018-140S		92	<20	0.16	<10	<10	93	<10	52		
JN12018-140B		5160	<20	<0.01	<10	<10	1	<10	<2		
JN12018-141		15	<20	<0.01	<10	<10	4	470	63		
JN12018-142		15	<20	<0.01	<10	<10	27	10	63		

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method	WEI- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
JN12018-143		1.48	0.749		11.1	0.66	12	<10	10	1.1	550	0.30	1.6	33	24	7980
JN12018-144		2.40	0.593		2.1	0.95	3	10	20	5.0	254	1.33	<0.5	67	12	2560
JN12018-145		4.82	0.733		0.3	0.61	7	10	30	7.3	714	2.29	0.6	42	5	1335
JN12018-146		4.30	0.109		0.2	0.76	18	10	30	5.5	44	2.19	0.9	46	4	1150
JN12018-147		4.51	0.083		<0.2	0.53	7	10	30	5.3	29	2.01	0.5	26	5	653
JN12018-148		1.24	>10.0	12.10	1.2	0.31	44	<10	20	2.2	270	1.02	<0.5	58	7	1180
JN12018-149		3.31	0.311		0.3	0.49	16	<10	20	4.3	216	2.02	0.5	36	8	847
JN12018-150		3.42	0.157		<0.2	0.86	6	<10	30	3.3	15	2.03	<0.5	11	6	107
JN12018-150D		<0.02	0.014		<0.2	0.78	<2	<10	30	3.3	14	2.03	<0.5	13	6	99
JN12018-151		5.95	0.698		1.4	0.52	65	<10	20	4.3	46	1.92	0.6	18	4	290
JN12018-152		4.75	0.138		2.3	0.65	7	10	20	4.9	61	3.61	0.5	16	7	292
JN12018-153		2.30	0.016		<0.2	1.59	<2	<10	20	1.6	4	3.39	<0.5	3	4	18
JN12018-154		4.12	0.253		2.7	0.48	3	<10	10	3.0	100	2.97	<0.5	13	8	491
JN12018-155		5.23	0.971		0.3	1.03	<2	10	<10	1.4	80	2.67	<0.5	5	3	95
JN12018-156		3.21	0.032		<0.2	0.77	<2	<10	<10	1.5	21	2.38	<0.5	14	2	550
JN12018-157		4.63	0.104		<0.2	0.24	3	<10	<10	2.1	27	1.80	<0.5	9	2	284
JN12018-158		3.32	0.019		<0.2	0.41	5	10	10	2.4	12	2.20	<0.5	13	4	456
JN12018-159		3.88	0.025		<0.2	0.34	<2	<10	20	6.1	12	2.73	<0.5	15	11	88
JN12018-160		3.77	0.022		<0.2	0.23	<2	<10	30	4.3	8	2.21	<0.5	12	10	36
JN12018-160S		0.04	3.97		55.9	1.85	1005	<10	190	<0.5	2	1.09	<0.5	9	19	100
JN12018-160B		6.66	<0.005		<0.2	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2
JN12018-161		3.25	0.022		<0.2	0.40	<2	<10	20	5.9	9	2.37	0.5	17	8	19
JN12018-162		1.19	<0.005		<0.2	0.14	<2	10	20	6.1	5	2.54	0.6	14	4	2
JN12018-163		2.00	0.005		<0.2	0.74	4	<10	30	5.5	6	2.62	<0.5	11	12	9
JN12018-164		4.01	0.014		<0.2	2.00	<2	<10	10	3.5	7	4.40	<0.5	14	32	19
JN12018-165		1.83	<0.005		<0.2	2.89	2	<10	30	1.3	<2	3.50	<0.5	5	20	21
JN12018-166		4.31	<0.005		<0.2	4.43	4	<10	180	1.3	<2	2.10	<0.5	9	52	13
JN12018-167		4.39	<0.005		<0.2	3.25	4	<10	190	1.0	<2	1.14	<0.5	9	34	19
JN12018-168		4.12	<0.005		0.2	1.79	8	10	90	0.7	<2	1.57	<0.5	7	23	30
JN12018-169		4.92	<0.005		0.3	1.10	16	20	90	1.0	<2	0.69	0.6	9	18	34
JN12018-170		3.08	<0.005		<0.2	0.93	<2	10	50	<0.5	<2	0.78	<0.5	4	22	15
JN12018-171		4.87	<0.005		<0.2	0.49	6	10	30	<0.5	<2	0.80	<0.5	4	20	15
JN12018-172		3.46	<0.005		0.5	0.56	10	30	50	<0.5	2	1.08	2.3	3	14	24
JN12018-173		5.27	<0.005		<0.2	0.66	6	10	40	<0.5	<2	1.21	<0.5	4	19	6
JN12018-174		4.21	<0.005		<0.2	0.41	2	<10	20	<0.5	<2	0.58	<0.5	2	25	19
JN12018-175		3.58	<0.005		<0.2	0.39	<2	<10	10	<0.5	<2	1.33	<0.5	2	17	16
JN12018-176		3.91	<0.005		<0.2	1.01	11	10	60	0.5	2	0.76	<0.5	10	27	20
JN12018-177		3.80	<0.005		<0.2	0.74	3	<10	30	<0.5	<2	0.71	<0.5	3	28	31

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
	Units	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
JN12018-143		11.90	10	<1	0.02	70	0.20	1410	27	<0.01	18	120	4	9.46	37	5
JN12018-144		33.0	30	<1	0.03	20	0.45	4720	3	0.01	22	170	<2	>10.0	<2	3
JN12018-145		40.0	40	<1	<0.01	10	0.54	7180	12	0.01	7	290	2	5.34	<2	1
JN12018-146		37.4	40	<1	<0.01	10	0.74	9060	35	0.01	6	460	3	5.37	<2	1
JN12018-147		36.4	30	<1	<0.01	10	0.69	9170	62	0.01	7	320	2	4.13	4	3
JN12018-148		35.6	20	<1	<0.01	<10	0.37	4310	54	0.01	103	260	18	>10.0	85	6
JN12018-149		33.1	20	<1	<0.01	10	0.77	9170	34	0.01	8	290	<2	6.28	<2	3
JN12018-150		27.0	20	<1	0.01	10	0.75	9880	<1	0.01	<1	280	<2	1.04	<2	3
JN12018-150D		27.8	20	<1	0.02	10	0.77	10150	<1	0.01	<1	300	<2	0.99	<2	4
JN12018-151		37.5	30	<1	0.04	10	0.43	5250	<1	0.01	4	390	39	5.05	3	3
JN12018-152		34.4	30	<1	0.04	10	0.41	6610	<1	0.03	5	440	89	3.01	<2	1
JN12018-153		4.34	10	<1	0.20	30	0.24	1560	32	0.19	1	530	4	0.18	<2	4
JN12018-154		23.8	30	<1	0.10	<10	0.21	2430	3	0.06	5	220	45	3.00	<2	1
JN12018-155		10.05	10	<1	0.19	10	0.19	1535	17	0.13	<1	450	2	0.87	<2	1
JN12018-156		9.17	10	<1	0.15	10	0.12	1495	<1	0.10	2	260	<2	3.42	<2	1
JN12018-157		7.30	10	<1	0.06	<10	0.17	1370	38	0.05	3	160	<2	1.52	<2	<1
JN12018-158		29.7	50	<1	0.09	<10	0.08	2150	<1	0.06	6	240	<2	1.89	<2	1
JN12018-159		27.2	10	<1	0.01	40	0.55	10100	106	0.01	5	490	5	0.58	<2	4
JN12018-160		32.6	10	<1	<0.01	10	0.94	13050	242	0.01	1	360	3	0.18	<2	2
JN12018-160S		3.69	<10	<1	0.27	10	0.81	495	8	0.23	14	600	6	0.12	13	3
JN12018-160B		0.13	<10	<1	<0.01	<10	1.83	56	<1	0.01	1	50	<2	0.05	<2	<1
JN12018-161		31.0	20	<1	<0.01	<10	0.97	13550	<1	0.01	1	160	2	0.08	<2	2
JN12018-162		32.0	10	<1	<0.01	<10	0.96	14050	<1	0.01	3	80	<2	0.02	<2	4
JN12018-163		26.4	10	1	0.02	10	0.79	11150	2	0.02	9	270	12	0.22	2	14
JN12018-164		7.28	10	<1	0.06	50	0.27	3380	15	0.01	30	1930	8	0.14	<2	11
JN12018-165		1.86	10	<1	0.18	20	0.37	516	6	0.17	12	260	<2	0.21	<2	2
JN12018-166		3.10	10	<1	1.51	30	1.33	308	2	0.36	33	400	<2	0.12	<2	9
JN12018-167		3.15	10	<1	1.28	20	1.20	268	1	0.15	33	790	<2	0.21	<2	6
JN12018-168		2.29	10	<1	0.50	20	0.44	666	2	0.08	20	300	58	0.49	<2	2
JN12018-169		2.72	<10	<1	0.60	20	0.53	604	1	0.04	30	290	87	0.79	<2	3
JN12018-170		1.76	<10	<1	0.39	10	0.44	246	<1	0.05	13	140	2	0.14	<2	2
JN12018-171		1.59	<10	<1	0.24	10	0.32	344	4	0.03	11	150	26	0.23	<2	2
JN12018-172		1.58	<10	<1	0.34	10	0.28	625	<1	0.03	11	150	320	0.60	<2	1
JN12018-173		1.32	<10	<1	0.32	20	0.35	295	1	0.05	12	230	11	0.09	2	2
JN12018-174		1.46	<10	<1	0.13	10	0.23	162	<1	0.05	5	70	<2	0.11	<2	1
JN12018-175		1.28	<10	<1	0.13	10	0.25	227	<1	0.03	6	90	<2	0.12	<2	1
JN12018-176		1.99	<10	<1	0.45	20	0.37	235	<1	0.05	17	270	<2	0.20	<2	3
JN12018-177		1.44	<10	<1	0.13	10	0.22	134	<1	0.09	6	80	<2	0.14	<2	2

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 9- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12224093

Sample Description	Method Analyte Units LOR	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Cu- OG46 Cu % 0.001	W- XRF05 W ppm 10
JN12018- 143		6	<20	<0.01	<10	<10	22	60	251		
JN12018- 144		13	<20	0.01	<10	<10	19	30	119		
JN12018- 145		16	<20	0.01	<10	<10	9	20	112		
JN12018- 146		14	<20	0.01	<10	10	6	30	114		
JN12018- 147		16	<20	0.01	<10	10	9	20	81		
JN12018- 148		8	<20	<0.01	30	10	13	20	36		
JN12018- 149		13	<20	0.01	<10	10	12	50	98		
JN12018- 150		14	<20	<0.01	<10	10	13	20	126		
JN12018- 150D		14	<20	<0.01	<10	10	14	20	128		
JN12018- 151		15	<20	0.01	<10	<10	8	10	76		
JN12018- 152		21	<20	0.02	<10	10	10	20	108		
JN12018- 153		41	<20	0.09	<10	<10	15	30	48		
JN12018- 154		11	<20	0.03	<10	10	7	60	56		
JN12018- 155		4	<20	0.04	<10	<10	7	70	30		
JN12018- 156		4	<20	0.03	<10	<10	4	10	29		
JN12018- 157		5	<20	0.01	<10	<10	2	60	26		
JN12018- 158		10	<20	0.03	<10	10	6	10	56		
JN12018- 159		18	<20	0.01	<10	10	19	40	130		
JN12018- 160		12	<20	0.01	<10	<10	16	40	153		
JN12018- 160S		89	<20	0.15	<10	<10	88	<10	50		
JN12018- 160B		5070	<20	<0.01	<10	<10	<1	<10	<2		
JN12018- 161		16	<20	0.01	<10	<10	9	30	163		
JN12018- 162		13	<20	0.01	<10	<10	6	30	134		
JN12018- 163		16	<20	0.01	<10	10	25	20	143		
JN12018- 164		34	20	<0.01	<10	<10	54	30	76		
JN12018- 165		183	<20	0.14	<10	<10	20	110	18		
JN12018- 166		140	20	0.17	<10	<10	60	10	21		
JN12018- 167		66	<20	0.11	<10	<10	45	<10	23		
JN12018- 168		80	<20	0.02	<10	<10	13	30	104		
JN12018- 169		47	20	0.01	<10	<10	16	<10	146		
JN12018- 170		55	<20	0.02	<10	<10	12	<10	31		
JN12018- 171		49	<20	0.01	<10	<10	7	10	54		
JN12018- 172		65	<20	<0.01	<10	<10	5	<10	489		
JN12018- 173		74	<20	0.01	<10	<10	10	<10	19		
JN12018- 174		34	<20	0.01	<10	<10	9	<10	7		
JN12018- 175		49	<20	0.01	<10	<10	7	10	6		
JN12018- 176		37	<20	0.03	<10	<10	20	10	14		
JN12018- 177		36	<20	0.03	<10	<10	12	10	6		

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 23- OCT- 2012
Account: TELOEX

CERTIFICATE WH12242091

Project:

P.O. No.: JN12- 014

This report is for 2 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 15- OCT- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
PUL- 32	Pulverize 1000g to 85% < 75 um
SPL- 22Y	Split Sample - Boyd Rotary Splitter
SCR- 21	Screen to - 100 to 106 um
FND- 03	Find Reject for Addn Analysis
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 to 106 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 23- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12242091

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
JN12018- 090D		7.75	24.6	7.32	0.653	26.58	1048.0	7.47	7.17
JN12018- 148		14.40	11.45	14.45	0.113	9.88	600.8	14.65	14.25

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE WH12228129

Project:

P.O. No.: JN12- 015

This report is for 190 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28- SEP- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
LOG- 22d	Sample login - Rcd w/o BarCode dup
SPL- 21d	Split sample - duplicate
PUL- 32md	Pulverize 500g- DUP - 85%< 75um
BAG- 01	Bulk Master for Storage
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 32m	Pulverize 500g - 85%< 75um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
W- XRF05	Trace Level W XRF Analysis	XRF
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: JESSE CAMPBELL
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12019- 001		2.81	<0.005	<0.2	0.47	42	20	10	<0.5	<2	0.10	<0.5	8	15	7	0.77
JN12019- 002		2.82	<0.005	<0.2	0.82	14	<10	<10	<0.5	<2	0.05	<0.5	2	18	12	0.85
JN12019- 003		3.61	<0.005	<0.2	0.51	20	<10	<10	<0.5	<2	0.04	<0.5	4	21	10	0.84
JN12019- 004		3.57	<0.005	<0.2	0.79	24	<10	10	<0.5	<2	0.06	<0.5	5	19	14	1.49
JN12019- 005		2.17	0.005	<0.2	0.54	21	<10	<10	<0.5	<2	0.05	<0.5	4	19	14	1.60
JN12019- 006		1.91	0.199	0.5	0.48	>10000	<10	10	<0.5	4	0.04	<0.5	9	13	17	3.47
JN12019- 007		3.15	0.559	0.9	0.46	67	<10	10	<0.5	<2	0.08	<0.5	9	17	7	4.50
JN12019- 008		3.05	0.151	0.3	1.37	89	10	70	<0.5	<2	0.03	<0.5	22	19	39	4.45
JN12019- 009		2.51	0.090	0.2	0.86	21	<10	30	<0.5	<2	0.04	<0.5	4	16	23	1.74
JN12019- 010		4.08	0.101	0.2	0.58	27	<10	10	<0.5	<2	0.04	<0.5	6	13	9	2.70
JN12019- 011		1.00	0.023	<0.2	0.46	13	<10	<10	<0.5	<2	0.20	<0.5	3	16	2	1.89
JN12019- 012		2.36	<0.005	<0.2	0.33	8	<10	<10	<0.5	<2	0.06	<0.5	1	16	7	1.16
JN12019- 013		0.74	0.006	<0.2	0.24	5	<10	<10	<0.5	<2	0.03	0.7	2	21	3	1.24
JN12019- 014		3.69	<0.005	<0.2	1.82	62	<10	100	1.0	<2	0.15	0.8	8	24	45	2.13
JN12019- 015		2.47	0.217	0.8	1.15	26	<10	80	0.5	<2	0.05	0.7	12	10	52	4.18
JN12019- 016		3.50	0.006	1.7	1.39	59	10	90	0.8	4	0.10	2.9	9	18	69	3.38
JN12019- 017		4.23	0.007	1.2	1.23	34	10	100	0.7	2	0.09	0.8	9	14	82	2.80
JN12019- 018		3.35	0.018	16.1	1.63	43	<10	70	0.9	33	0.18	31.5	13	24	363	3.44
JN12019- 019		2.30	0.010	10.2	1.03	50	10	90	0.8	22	0.08	25.9	8	18	152	3.93
JN12019- 020		4.41	0.014	0.5	1.72	573	<10	20	1.0	4	0.64	0.9	17	38	90	9.50
JN12019- 020S		0.04	3.88	55.9	1.90	1030	<10	190	<0.5	2	1.08	<0.5	9	19	105	3.56
JN12019- 020B		4.32	<0.005	<0.2	0.05	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
JN12019- 021		4.11	<0.005	0.2	1.51	7	<10	10	0.8	2	0.94	<0.5	15	43	36	7.69
JN12019- 022		3.91	0.014	4.8	1.46	22	<10	30	0.6	14	0.52	14.1	14	27	123	7.28
JN12019- 023		3.72	0.013	1.0	0.95	40	<10	10	<0.5	5	0.24	13.5	16	15	122	4.01
JN12019- 024		4.23	0.011	2.1	1.25	41	<10	30	0.7	6	0.38	15.4	14	21	116	5.97
JN12019- 025		2.84	0.007	1.2	0.88	16	<10	20	<0.5	4	0.18	1.4	15	13	67	3.35
JN12019- 026		3.63	0.010	0.7	1.31	22	<10	30	0.7	6	0.52	4.3	13	29	84	7.03
JN12019- 027		3.28	0.054	0.9	1.11	46	<10	10	<0.5	2	0.17	1.2	13	15	86	3.06
JN12019- 028		3.59	<0.005	0.5	1.21	18	<10	30	<0.5	2	0.26	0.5	12	16	80	2.77
JN12019- 029		4.01	0.018	0.3	0.71	12	<10	20	<0.5	<2	0.33	<0.5	7	12	117	2.97
JN12019- 030		3.54	<0.005	<0.2	0.81	6	<10	10	<0.5	2	0.14	<0.5	4	13	22	0.98
JN12019- 030D		<0.02	<0.005	<0.2	0.73	9	<10	<10	<0.5	<2	0.14	<0.5	5	12	23	0.98
JN12019- 031		3.58	<0.005	0.2	0.70	458	<10	30	<0.5	3	0.21	0.8	9	16	48	1.97
JN12019- 032		3.59	<0.005	0.3	0.81	12	<10	10	<0.5	<2	0.24	<0.5	5	13	27	2.45
JN12019- 033		2.56	0.011	0.3	0.73	12	<10	10	<0.5	<2	0.20	<0.5	7	14	25	1.17
JN12019- 034		3.57	0.025	0.3	0.66	15	<10	10	<0.5	<2	0.21	6.7	6	11	25	1.69
JN12019- 035		1.12	0.006	<0.2	0.55	10	<10	10	<0.5	<2	0.47	<0.5	6	12	22	2.02
JN12019- 036		2.92	<0.005	<0.2	0.83	7	<10	10	<0.5	<2	0.20	<0.5	7	16	17	1.64
JN12019- 037		3.25	<0.005	<0.2	0.78	3	<10	<10	<0.5	<2	0.17	<0.5	8	15	12	1.17

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12019- 001		<10	<1	0.14	10	0.02	94	1	0.01	29	170	2	0.01	<2	2	18
JN12019- 002		<10	<1	0.05	20	0.02	156	<1	0.01	9	110	2	0.02	<2	2	4
JN12019- 003		<10	<1	0.04	10	0.01	165	1	0.01	12	110	3	0.03	2	2	3
JN12019- 004		<10	<1	0.06	20	0.02	301	<1	0.01	13	120	3	0.04	<2	3	5
JN12019- 005		<10	<1	0.04	10	0.02	222	<1	0.01	12	120	5	0.67	2	2	5
JN12019- 006		<10	<1	0.08	10	0.01	82	<1	0.01	9	50	103	2.78	60	1	9
JN12019- 007		<10	<1	0.04	10	<0.01	24	1	0.01	14	330	7	5.59	87	1	23
JN12019- 008		<10	<1	0.49	10	0.08	101	<1	0.02	54	90	4	4.61	26	2	13
JN12019- 009		<10	<1	0.16	10	0.01	17	1	0.01	10	100	6	1.74	20	1	12
JN12019- 010		<10	1	0.07	10	<0.01	65	55	0.01	15	130	5	2.54	25	1	16
JN12019- 011		<10	<1	0.02	10	0.04	678	6	0.01	10	480	4	0.03	<2	5	7
JN12019- 012		<10	<1	0.02	10	0.02	255	2	0.01	7	130	3	0.04	<2	2	3
JN12019- 013		<10	<1	0.01	<10	<0.01	54	175	0.01	8	50	8	1.08	<2	<1	2
JN12019- 014		<10	<1	0.53	40	0.08	167	1	0.02	33	780	9	0.22	4	6	57
JN12019- 015		<10	<1	0.52	20	0.08	29	2	0.02	30	260	37	4.67	28	2	47
JN12019- 016		<10	<1	0.57	30	0.08	152	13	0.02	27	560	281	1.23	6	6	25
JN12019- 017		<10	<1	0.60	30	0.09	112	3	0.02	26	460	127	1.50	6	4	23
JN12019- 018		<10	1	0.35	70	0.06	431	9	0.01	44	660	2660	1.22	7	10	17
JN12019- 019		<10	<1	0.50	50	0.07	167	11	0.01	26	530	1800	1.56	5	9	26
JN12019- 020		10	<1	0.10	40	0.22	3530	13	0.01	57	910	71	2.26	3	21	13
JN12019- 020S		10	1	0.27	10	0.78	504	8	0.22	13	590	8	0.13	14	3	92
JN12019- 020B		<10	<1	0.01	<10	1.89	26	<1	0.01	<1	70	6	0.09	<2	<1	5490
JN12019- 021		<10	1	0.04	50	0.26	3160	16	0.01	39	910	38	0.39	<2	18	42
JN12019- 022		<10	<1	0.15	30	0.18	2030	11	0.01	38	550	729	3.54	4	9	18
JN12019- 023		<10	<1	0.09	30	0.04	589	3	0.01	43	520	101	3.40	4	4	14
JN12019- 024		<10	<1	0.14	50	0.09	1455	12	0.01	50	440	236	3.06	8	9	15
JN12019- 025		<10	<1	0.15	40	0.04	443	3	0.01	37	430	151	2.62	5	3	10
JN12019- 026		<10	<1	0.20	40	0.15	2250	29	0.01	37	640	63	1.78	2	13	15
JN12019- 027		<10	1	0.09	40	0.02	156	6	0.01	47	530	48	3.12	11	3	14
JN12019- 028		<10	<1	0.16	30	0.04	430	3	0.01	42	680	37	1.72	4	5	16
JN12019- 029		<10	<1	0.06	20	0.03	448	4	0.01	22	830	14	1.99	4	4	23
JN12019- 030		<10	1	0.05	20	0.02	256	7	0.01	13	380	5	0.18	<2	3	10
JN12019- 030D		<10	<1	0.05	20	0.02	250	7	<0.01	13	370	4	0.16	<2	3	10
JN12019- 031		<10	<1	0.17	30	0.06	517	12	0.01	25	410	42	0.48	<2	4	10
JN12019- 032		<10	<1	0.05	20	0.04	553	6	0.01	24	520	18	1.07	<2	5	16
JN12019- 033		<10	<1	0.04	20	0.03	305	8	<0.01	26	510	9	0.47	2	3	14
JN12019- 034		<10	<1	0.04	20	0.02	316	6	0.01	20	620	21	1.01	5	3	21
JN12019- 035		<10	<1	0.03	10	0.02	386	6	<0.01	14	1720	13	1.17	<2	3	32
JN12019- 036		<10	<1	0.04	10	0.03	504	9	<0.01	19	520	11	0.52	<2	4	16
JN12019- 037		<10	1	0.03	10	0.03	481	8	<0.01	21	450	5	0.09	<2	3	11

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12019- 001		<20	<0.01	<10	<10	6	<10	26	
JN12019- 002		<20	<0.01	<10	<10	11	<10	17	
JN12019- 003		<20	<0.01	<10	<10	11	<10	29	
JN12019- 004		<20	<0.01	<10	<10	14	<10	34	
JN12019- 005		<20	<0.01	<10	<10	11	<10	35	
JN12019- 006		<20	<0.01	<10	<10	4	<10	25	
JN12019- 007		<20	<0.01	<10	<10	3	<10	38	
JN12019- 008		<20	<0.01	<10	<10	17	<10	51	
JN12019- 009		<20	<0.01	<10	<10	9	<10	21	
JN12019- 010		<20	<0.01	<10	<10	4	<10	43	
JN12019- 011		<20	<0.01	<10	<10	14	<10	42	
JN12019- 012		<20	<0.01	<10	<10	6	<10	22	
JN12019- 013		<20	<0.01	<10	<10	2	<10	31	
JN12019- 014		20	<0.01	<10	10	37	<10	132	
JN12019- 015		<20	<0.01	<10	<10	11	<10	47	
JN12019- 016		20	<0.01	<10	10	30	<10	461	
JN12019- 017		20	<0.01	<10	<10	23	<10	140	
JN12019- 018		20	<0.01	<10	20	45	<10	4460	
JN12019- 019		20	<0.01	<10	10	40	<10	3340	
JN12019- 020		20	<0.01	<10	10	89	<10	231	
JN12019- 020S		<20	0.15	<10	<10	89	<10	51	
JN12019- 020B		<20	<0.01	<10	<10	<1	<10	9	
JN12019- 021		20	<0.01	<10	10	76	<10	153	
JN12019- 022		20	<0.01	<10	10	43	<10	1965	
JN12019- 023		20	<0.01	<10	10	19	<10	1475	
JN12019- 024		<20	<0.01	<10	20	40	<10	1880	
JN12019- 025		20	<0.01	<10	10	16	<10	234	
JN12019- 026		20	<0.01	<10	20	56	<10	521	
JN12019- 027		<20	<0.01	<10	10	17	<10	156	
JN12019- 028		<20	<0.01	<10	10	23	<10	82	
JN12019- 029		<20	<0.01	<10	10	14	<10	63	
JN12019- 030		<20	<0.01	<10	<10	14	<10	42	
JN12019- 030D		<20	<0.01	<10	<10	13	<10	42	
JN12019- 031		<20	<0.01	<10	<10	20	<10	127	
JN12019- 032		<20	<0.01	<10	10	22	<10	44	
JN12019- 033		<20	<0.01	<10	10	13	<10	50	
JN12019- 034		<20	<0.01	<10	10	11	<10	993	
JN12019- 035		<20	<0.01	<10	10	12	<10	83	
JN12019- 036		<20	<0.01	<10	<10	18	<10	94	
JN12019- 037		<20	<0.01	<10	<10	16	<10	58	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12019- 038		1.58	0.018	0.8	0.65	72	<10	10	<0.5	3	0.23	0.7	7	12	87	1.95
JN12019- 039		0.59	0.406	1.9	0.47	68	<10	20	<0.5	14	0.22	1.3	13	18	533	25.7
JN12019- 040		4.42	0.010	1.6	0.56	39	<10	30	<0.5	4	0.28	6.7	8	8	42	2.04
JN12019- 040S		0.04	0.948	0.4	1.71	1370	20	100	<0.5	23	3.75	<0.5	48	25	138	3.88
JN12019- 040B		5.78	<0.005	<0.2	0.03	<2	<10	<10	<0.5	2	>25.0	<0.5	<1	<1	1	0.06
JN12019- 041		1.64	0.010	<0.2	0.64	12	<10	20	<0.5	<2	0.72	<0.5	6	12	29	3.75
JN12019- 042		2.81	0.034	0.2	0.97	2	<10	20	1.9	16	3.03	1.7	3	31	61	25.4
JN12019- 043		1.33	0.012	<0.2	1.64	18	<10	10	1.9	4	9.2	1.2	<1	42	10	17.8
JN12019- 044		3.96	0.008	0.4	2.84	16	<10	10	2.1	2	6.41	0.7	3	45	37	13.5
JN12019- 045		2.53	<0.005	<0.2	1.69	10	<10	10	2.3	<2	0.77	0.5	<1	65	21	15.9
JN12019- 046		1.47	0.005	2.2	1.14	9	<10	20	1.0	8	0.86	0.7	4	47	103	11.35
JN12019- 047		2.98	0.252	0.4	0.73	13	<10	30	1.4	14	1.36	0.8	7	34	298	19.8
JN12019- 048		2.74	6.68	0.4	1.98	2	<10	<10	0.5	129	12.8	0.7	<1	17	81	11.85
JN12019- 049		3.07	0.198	<0.2	1.67	3	<10	10	1.3	8	12.1	0.9	1	16	15	16.5
JN12019- 050		1.25	0.327	<0.2	1.24	5	<10	10	2.3	7	4.92	1.8	4	22	68	30.1
JN12019- 051		2.28	1.820	<0.2	1.95	3	<10	20	1.6	32	2.80	0.5	16	37	59	8.39
JN12019- 052		1.57	0.020	<0.2	1.22	5	<10	20	1.2	<2	0.55	<0.5	15	29	73	4.22
JN12019- 053		4.05	0.355	<0.2	2.15	9	<10	10	1.5	6	8.1	0.7	2	30	4	16.0
JN12019- 054		2.84	0.112	<0.2	1.36	6	<10	10	1.7	3	5.49	1.0	4	28	<1	20.6
JN12019- 055		3.22	0.087	<0.2	1.56	<2	<10	10	1.3	2	4.77	0.8	5	31	1	15.4
JN12019- 056		1.99	0.020	<0.2	1.51	17	<10	10	1.3	3	1.67	<0.5	4	36	9	9.31
JN12019- 057		4.35	0.128	<0.2	1.65	9	<10	10	1.4	9	8.8	0.8	3	20	2	14.50
JN12019- 058		2.68	0.071	<0.2	1.44	6	<10	10	0.7	4	10.3	1.0	<1	16	2	12.50
JN12019- 059		1.14	0.059	<0.2	1.12	10	<10	20	1.8	5	1.72	0.8	5	35	11	19.5
JN12019- 060		3.17	0.084	<0.2	1.35	7	<10	20	1.9	4	10.9	1.1	<1	13	3	23.2
JN12019- 060D		<0.02	0.076	<0.2	1.29	6	<10	20	1.9	<2	10.30	0.8	<1	12	2	22.6
JN12019- 060S		0.04	4.12	57.2	1.89	1050	<10	190	<0.5	<2	1.06	<0.5	9	21	105	3.68
JN12019- 060B		4.09	<0.005	<0.2	0.02	<2	<10	<10	<0.5	3	>25.0	<0.5	<1	<1	1	0.08
JN12019- 061		1.90	0.056	0.2	0.85	20	<10	20	1.5	9	4.20	1.0	7	17	41	17.5
JN12019- 062		4.89	0.024	<0.2	2.14	<2	<10	10	1.0	4	8.6	0.5	2	1	1	9.86
JN12019- 063		4.51	0.045	<0.2	2.13	7	<10	10	0.7	7	5.98	<0.5	2	2	6	7.18
JN12019- 064		4.32	0.016	<0.2	1.69	8	<10	10	1.3	4	10.2	0.5	2	14	11	16.0
JN12019- 065		2.72	0.022	<0.2	1.61	2	<10	10	1.2	2	15.3	0.9	<1	10	1	19.0
JN12019- 066		4.17	0.022	<0.2	1.09	2	<10	10	2.0	3	9.9	0.7	2	7	2	17.7
JN12019- 067		1.99	0.016	0.2	1.54	12	<10	10	1.6	6	11.4	1.1	6	14	40	19.1
JN12019- 068		3.53	0.011	<0.2	1.36	7	<10	10	2.4	3	11.1	0.7	3	12	6	16.9
JN12019- 069		7.40	0.017	<0.2	1.28	91	<10	30	<0.5	6	11.4	<0.5	<1	10	6	9.17
JN12019- 070		6.92	0.017	<0.2	1.44	2	<10	30	0.6	2	10.9	<0.5	<1	13	9	8.60
JN12019- 071		2.83	0.009	<0.2	1.52	4	<10	30	2.9	3	6.37	0.5	5	16	13	11.85
JN12019- 072		2.23	<0.005	<0.2	1.33	<2	<10	10	0.8	<2	6.69	<0.5	1	11	<1	6.75

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44 - 12TH AVENUE SOUTH
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CRANBROOK BC V1C 2R7

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CERTIFICATE OF ANALYSIS WH12228129

Sample Description / Method / Analyte / Units / LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
JN12019- 038	<10	<1	0.05	10	0.02	248	4	<0.01	18	720	346	1.45	7	2	19
JN12019- 039	<10	1	0.05	10	0.07	889	2	0.01	60	380	51	>10.0	86	3	17
JN12019- 040	<10	<1	0.14	10	0.03	142	1	0.01	19	980	182	1.85	4	1	22
JN12019- 040S	<10	<1	0.18	10	0.59	809	10	0.17	24	800	10	0.31	4	3	108
JN12019- 040B	<10	1	<0.01	<10	1.72	22	<1	0.01	1	50	<2	0.08	<2	<1	5170
JN12019- 041	<10	<1	0.11	10	0.07	741	1	0.01	22	1050	21	2.24	5	2	59
JN12019- 042	10	<1	0.02	10	0.47	8020	<1	0.01	16	430	11	2.13	<2	13	20
JN12019- 043	20	<1	0.02	20	0.13	3720	1	0.01	3	1010	7	0.18	4	12	18
JN12019- 044	20	1	0.08	40	0.15	2900	3	0.01	10	380	11	0.39	<2	12	19
JN12019- 045	10	<1	0.05	60	0.19	3720	4	0.01	8	390	8	0.34	2	9	24
JN12019- 046	<10	<1	0.09	60	0.28	4510	115	0.01	28	240	82	1.52	5	6	13
JN12019- 047	<10	<1	0.07	10	0.46	5470	1	0.01	26	310	20	6.75	2	11	16
JN12019- 048	10	<1	<0.01	<10	0.08	3220	<1	0.01	<1	480	3	0.23	<2	3	9
JN12019- 049	20	<1	<0.01	<10	0.13	5170	<1	0.01	1	550	5	0.07	<2	3	11
JN12019- 050	40	<1	<0.01	<10	0.15	4190	<1	0.01	13	1230	9	0.42	<2	4	21
JN12019- 051	10	<1	0.14	30	0.20	3260	18	0.01	41	350	8	0.50	<2	8	23
JN12019- 052	<10	<1	0.25	50	0.19	1550	1	0.01	34	250	5	0.63	<2	10	17
JN12019- 053	10	<1	0.02	10	0.24	5690	18	0.01	4	380	5	0.68	<2	7	19
JN12019- 054	10	1	0.01	<10	0.38	6990	<1	0.01	7	520	4	1.13	<2	7	25
JN12019- 055	10	<1	0.01	20	0.41	6000	8	0.01	5	560	4	1.09	<2	7	21
JN12019- 056	10	<1	0.03	30	0.25	3490	71	0.01	8	330	4	0.29	<2	10	37
JN12019- 057	10	<1	0.01	10	0.15	4780	9	0.01	2	270	3	0.09	<2	5	17
JN12019- 058	10	<1	<0.01	<10	0.08	3750	<1	<0.01	<1	330	3	0.01	<2	3	11
JN12019- 059	10	<1	0.07	20	0.53	6550	<1	0.01	4	450	8	2.59	<2	9	19
JN12019- 060	20	<1	0.01	<10	0.24	7440	<1	0.01	<1	520	6	0.14	<2	8	20
JN12019- 060D	10	<1	<0.01	10	0.23	7340	<1	0.01	<1	500	3	0.14	<2	8	21
JN12019- 060S	<10	<1	0.26	10	0.80	498	9	0.22	15	590	8	0.14	16	3	90
JN12019- 060B	<10	<1	<0.01	<10	1.83	35	<1	0.01	1	60	<2	0.07	<2	<1	5040
JN12019- 061	10	<1	0.12	10	0.32	5980	1	0.01	2	450	17	2.80	<2	7	39
JN12019- 062	10	<1	0.01	10	0.09	4270	<1	0.01	1	410	<2	0.05	<2	5	13
JN12019- 063	10	1	0.06	10	0.09	3440	<1	<0.01	<1	430	3	0.26	<2	4	11
JN12019- 064	10	<1	0.02	10	0.11	5840	<1	0.01	2	560	8	0.37	<2	6	12
JN12019- 065	30	<1	0.01	<10	0.07	5140	<1	0.01	<1	250	4	<0.01	<2	2	6
JN12019- 066	20	<1	0.01	<10	0.11	6180	<1	0.01	<1	380	2	0.07	<2	2	9
JN12019- 067	20	<1	0.06	<10	0.10	6430	<1	0.01	<1	580	9	1.76	<2	3	11
JN12019- 068	20	<1	0.01	<10	0.10	6480	<1	0.01	<1	270	4	0.17	<2	3	8
JN12019- 069	20	<1	0.04	<10	0.14	2960	<1	0.02	<1	160	3	0.21	<2	2	14
JN12019- 070	10	<1	0.07	<10	0.12	3100	<1	0.03	<1	190	3	0.39	<2	2	31
JN12019- 071	10	<1	0.05	10	0.15	5620	24	0.01	2	180	7	0.39	<2	3	31
JN12019- 072	10	<1	0.05	<10	0.07	2480	3	0.03	<1	150	<2	0.01	<2	1	16

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CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	W- XRF05 W ppm 10
JN12019- 038		<20	<0.01	<10	<10	9	<10	103	
JN12019- 039		<20	<0.01	20	<10	17	<10	100	
JN12019- 040		<20	<0.01	<10	10	6	<10	874	
JN12019- 040S		<20	0.11	<10	<10	61	10	63	
JN12019- 040B		<20	<0.01	<10	<10	1	<10	<2	
JN12019- 041		<20	<0.01	<10	10	11	<10	59	
JN12019- 042		<20	0.01	<10	<10	41	10	89	
JN12019- 043		<20	0.06	<10	<10	72	40	38	
JN12019- 044		20	0.04	<10	<10	76	10	29	
JN12019- 045		20	0.03	<10	<10	82	10	44	
JN12019- 046		20	0.01	<10	<10	35	10	106	
JN12019- 047		<20	0.01	10	<10	42	<10	57	
JN12019- 048		<20	0.08	<10	<10	24	10	21	
JN12019- 049		<20	0.06	<10	<10	20	<10	58	
JN12019- 050		<20	0.05	<10	<10	25	<10	83	
JN12019- 051		20	0.02	<10	<10	40	<10	65	
JN12019- 052		20	0.01	<10	<10	41	<10	28	
JN12019- 053		<20	0.05	<10	<10	34	<10	73	
JN12019- 054		<20	0.02	<10	<10	32	<10	97	
JN12019- 055		<20	0.02	<10	<10	40	<10	72	
JN12019- 056		20	<0.01	<10	<10	51	<10	71	
JN12019- 057		<20	0.05	<10	<10	23	<10	78	
JN12019- 058		<20	0.05	<10	<10	18	<10	39	
JN12019- 059		<20	0.01	<10	<10	34	<10	107	
JN12019- 060		<20	0.04	<10	<10	22	10	89	
JN12019- 060D		<20	0.04	<10	<10	22	10	89	
JN12019- 060S		<20	0.15	<10	<10	91	<10	52	
JN12019- 060B		<20	<0.01	<10	<10	<1	<10	<2	
JN12019- 061		<20	0.02	<10	<10	23	<10	97	
JN12019- 062		<20	0.05	<10	<10	14	10	46	
JN12019- 063		<20	0.03	<10	<10	13	10	36	
JN12019- 064		<20	0.05	<10	10	21	<10	77	
JN12019- 065		<20	0.05	<10	10	17	10	53	
JN12019- 066		<20	0.03	<10	10	12	<10	82	
JN12019- 067		<20	0.05	<10	<10	19	<10	67	
JN12019- 068		<20	0.06	<10	10	16	<10	80	
JN12019- 069		<20	0.05	<10	10	13	<10	19	
JN12019- 070		<20	0.05	<10	<10	15	<10	26	
JN12019- 071		<20	0.05	<10	<10	19	<10	83	
JN12019- 072		<20	0.05	<10	<10	12	<10	46	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description / Method / Analyte / Units / LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12019- 073	2.82	0.009	<0.2	1.39	3	<10	10	3.2	7	11.5	1.1	2	14	<1	22.7
JN12019- 074	3.18	0.008	<0.2	1.24	2	<10	10	2.6	6	12.0	1.0	2	11	41	19.7
JN12019- 075	1.53	0.019	<0.2	1.04	24	<10	20	2.2	10	10.1	1.1	27	8	135	20.6
JN12019- 076	2.80	0.018	<0.2	1.12	<2	<10	10	3.7	5	12.4	1.2	3	8	48	21.4
JN12019- 077	4.12	0.007	<0.2	1.60	5	<10	10	2.1	2	13.9	1.1	1	11	16	19.2
JN12019- 078	1.00	0.015	<0.2	0.90	6	<10	10	3.5	4	9.5	1.5	6	14	<1	26.2
JN12019- 079	4.27	0.036	<0.2	0.83	2	<10	10	6.0	50	5.44	1.7	7	9	<1	27.0
JN12019- 080	4.18	0.007	<0.2	1.10	<2	<10	10	4.6	8	8.1	1.1	5	11	<1	24.5
JN12019- 080S	0.04	4.09	59.1	1.88	1020	<10	190	<0.5	<2	1.06	<0.5	9	19	103	3.69
JN12019- 080B	4.52	<0.005	<0.2	0.01	<2	<10	<10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.10
JN12019- 081	4.13	0.006	<0.2	1.11	8	<10	10	4.7	5	8.4	1.2	5	19	<1	23.8
JN12019- 082	4.44	0.006	<0.2	1.37	5	<10	10	4.0	<2	9.5	1.3	4	15	<1	22.0
JN12019- 083	4.79	<0.005	<0.2	1.24	4	<10	10	5.7	3	5.50	1.1	5	13	<1	22.2
JN12019- 084	3.82	0.013	<0.2	0.67	9	<10	20	5.6	13	4.87	1.7	6	12	3	29.1
JN12019- 085	4.94	0.005	<0.2	1.01	2	<10	10	4.9	3	6.29	1.2	5	13	<1	24.4
JN12019- 086	4.02	0.005	<0.2	1.07	2	<10	10	3.9	3	9.8	0.7	3	4	3	15.7
JN12019- 087	3.19	<0.005	<0.2	1.17	<2	<10	10	5.0	2	5.46	0.8	3	10	<1	15.8
JN12019- 088	2.61	0.049	<0.2	1.10	2	<10	20	2.9	56	1.76	0.6	6	28	2	22.7
JN12019- 089	1.33	0.024	<0.2	0.51	19	<10	20	2.1	13	1.82	1.4	<1	11	<1	31.9
JN12019- 090	1.95	2.83	10.4	0.26	322	<10	10	0.5	6	0.44	1.5	2	9	4	27.7
JN12019- 090D	<0.02	2.84	10.3	0.27	329	<10	10	0.5	8	0.44	1.4	1	9	4	28.0
JN12019- 091	1.27	0.024	<0.2	1.41	18	<10	20	2.4	6	2.76	1.3	1	27	<1	27.8
JN12019- 092	3.80	0.063	<0.2	1.22	5	<10	20	3.2	10	4.24	1.5	4	17	<1	28.8
JN12019- 093	3.23	0.516	0.6	0.50	63	<10	10	0.6	3	0.84	0.7	6	12	<1	25.7
JN12019- 094	3.42	0.117	<0.2	0.38	55	<10	10	1.0	17	1.17	1.0	6	7	<1	29.9
JN12019- 095	5.00	0.018	<0.2	0.48	8	<10	20	1.8	6	1.87	1.3	10	12	<1	27.5
JN12019- 096	1.87	0.181	<0.2	0.31	25	<10	10	0.6	8	0.90	1.2	14	11	1	30.1
JN12019- 097	1.52	0.015	<0.2	0.30	9	<10	30	1.9	<2	2.23	1.0	12	7	<1	32.4
JN12019- 098	2.59	0.093	<0.2	0.19	14	<10	10	0.9	<2	1.13	<0.5	18	7	2	31.1
JN12019- 099	1.36	0.063	<0.2	0.16	92	<10	20	1.4	<2	1.69	<0.5	9	13	36	24.2
JN12019- 100	5.62	<0.005	<0.2	0.28	2	<10	30	1.9	<2	2.27	1.1	5	8	1	32.2
JN12019- 100S	0.04	4.06	56.6	1.88	1040	<10	190	<0.5	<2	1.09	<0.5	10	21	104	3.63
JN12019- 100B	5.41	<0.005	<0.2	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	<1	0.10
JN12019- 101	5.09	0.010	<0.2	0.40	9	<10	30	5.6	<2	3.01	0.7	17	8	25	30.9
JN12019- 102	3.32	0.009	<0.2	0.52	45	<10	20	2.1	<2	2.19	<0.5	13	19	6	23.7
JN12019- 103	1.51	0.084	<0.2	0.24	68	<10	10	0.6	<2	0.53	<0.5	18	12	4	23.9
JN12019- 104	3.05	<0.005	<0.2	0.51	3	20	20	4.3	<2	3.92	<0.5	11	18	<1	21.8
JN12019- 105	4.77	<0.005	<0.2	1.27	2	10	10	1.9	<2	2.36	<0.5	1	5	14	1.84
JN12019- 106	3.74	0.007	<0.2	2.18	5	10	20	4.7	<2	8.5	<0.5	3	18	10	5.81
JN12019- 107	2.20	0.010	<0.2	3.29	6	<10	60	6.9	<2	5.07	<0.5	8	26	25	8.18

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12019- 073		20	<1	<0.01	<10	0.16	8810	<1	0.01	<1	330	4	<0.01	<2	3	11
JN12019- 074		10	<1	<0.01	<10	0.13	7020	<1	0.01	<1	530	3	0.18	<2	2	14
JN12019- 075		10	<1	0.11	<10	0.14	6040	<1	0.01	10	370	18	3.37	3	2	11
JN12019- 076		20	<1	<0.01	<10	0.14	7250	<1	0.01	<1	310	5	0.23	<2	2	11
JN12019- 077		20	<1	0.01	<10	0.11	6240	<1	0.01	<1	190	6	0.06	<2	2	8
JN12019- 078		20	1	<0.01	<10	0.31	10350	<1	0.01	<1	470	4	1.23	<2	5	22
JN12019- 079		10	1	<0.01	<10	0.31	12400	<1	0.01	<1	480	9	<0.01	<2	2	22
JN12019- 080		20	<1	0.01	<10	0.22	10500	<1	0.01	<1	570	4	0.01	<2	2	17
JN12019- 080S		10	1	0.26	10	0.81	513	8	0.22	13	610	7	0.13	16	3	87
JN12019- 080B		<10	<1	<0.01	<10	1.78	51	<1	0.01	<1	70	<2	0.06	<2	<1	5070
JN12019- 081		20	<1	0.01	<10	0.22	9840	<1	0.01	<1	660	3	<0.01	<2	3	21
JN12019- 082		10	<1	<0.01	<10	0.18	9040	<1	0.01	<1	380	4	0.02	<2	3	23
JN12019- 083		10	<1	0.01	10	0.23	10550	<1	0.01	<1	430	5	<0.01	<2	3	20
JN12019- 084		10	1	0.01	<10	0.40	13800	<1	0.01	<1	1210	9	0.29	<2	2	28
JN12019- 085		10	<1	0.01	<10	0.29	11100	<1	0.01	<1	180	5	0.09	<2	3	16
JN12019- 086		20	<1	0.01	<10	0.10	6080	<1	0.01	<1	50	2	0.02	<2	1	18
JN12019- 087		10	<1	0.02	10	0.15	7470	<1	0.02	<1	120	2	0.02	<2	2	19
JN12019- 088		10	1	0.03	30	0.54	9920	<1	0.01	7	160	9	1.89	4	13	14
JN12019- 089		10	<1	<0.01	<10	0.73	11600	<1	0.01	<1	100	<2	8.13	10	30	10
JN12019- 090		<10	3	<0.01	<10	0.14	2440	<1	0.01	23	120	8	>10.0	232	7	2
JN12019- 090D		<10	2	<0.01	<10	0.14	2460	<1	0.01	23	120	4	>10.0	226	7	2
JN12019- 091		20	1	<0.01	10	0.47	8920	<1	0.01	<1	190	5	5.54	5	21	13
JN12019- 092		20	<1	<0.01	10	0.46	10650	<1	0.01	<1	330	6	0.54	<2	6	22
JN12019- 093		10	1	<0.01	<10	0.34	6330	<1	0.01	<1	350	2	>10.0	68	16	4
JN12019- 094		10	2	<0.01	<10	0.43	9130	<1	0.01	<1	230	4	>10.0	27	11	5
JN12019- 095		10	<1	<0.01	<10	0.82	15300	<1	0.01	<1	240	4	2.25	4	6	10
JN12019- 096		10	3	<0.01	<10	0.27	6870	<1	0.01	<1	980	2	>10.0	16	6	7
JN12019- 097		10	1	<0.01	<10	0.82	18000	<1	0.01	<1	300	6	3.79	4	25	13
JN12019- 098		10	1	<0.01	<10	0.45	9500	<1	0.01	<1	230	6	>10.0	20	14	6
JN12019- 099		<10	1	<0.01	<10	0.73	13500	<1	0.01	<1	280	7	3.71	11	32	8
JN12019- 100		10	1	<0.01	<10	0.98	17650	<1	0.02	<1	420	8	0.37	<2	40	14
JN12019- 100S		<10	1	0.27	10	0.81	517	9	0.23	13	620	7	0.13	15	3	93
JN12019- 100B		<10	1	<0.01	<10	1.75	56	<1	0.01	<1	60	<2	0.06	<2	<1	5220
JN12019- 101		10	1	0.01	<10	0.59	18050	<1	0.01	<1	380	6	1.18	<2	2	24
JN12019- 102		10	1	0.02	<10	0.68	19500	<1	0.01	<1	160	6	0.77	<2	12	20
JN12019- 103		<10	1	0.01	<10	0.21	6010	<1	0.01	4	100	6	>10.0	31	8	3
JN12019- 104		10	1	<0.01	<10	0.52	16250	<1	0.01	1	150	8	1.77	<2	6	21
JN12019- 105		10	<1	0.02	10	0.06	933	3	0.04	<1	100	3	0.11	<2	<1	60
JN12019- 106		10	1	0.07	20	0.23	3120	<1	0.04	3	150	4	0.43	2	3	68
JN12019- 107		10	1	0.07	20	0.20	4400	3	0.03	11	230	5	0.82	<2	5	134

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12019- 073		<20	0.05	<10	10	15	<10	107	
JN12019- 074		<20	0.05	<10	<10	12	<10	90	
JN12019- 075		<20	0.03	<10	<10	11	10	69	
JN12019- 076		<20	0.04	<10	10	10	10	105	
JN12019- 077		<20	0.05	<10	<10	15	10	73	
JN12019- 078		<20	0.04	<10	10	16	10	125	
JN12019- 079		<20	0.02	<10	<10	11	<10	212	
JN12019- 080		<20	0.04	<10	10	16	<10	142	
JN12019- 080S		<20	0.14	<10	<10	88	<10	50	
JN12019- 080B		<20	<0.01	<10	<10	<1	<10	<2	
JN12019- 081		<20	0.05	<10	10	17	<10	138	
JN12019- 082		<20	0.05	<10	<10	18	<10	109	
JN12019- 083		<20	0.03	<10	<10	17	<10	148	
JN12019- 084		<20	0.01	<10	10	11	10	191	
JN12019- 085		<20	0.03	<10	10	16	10	145	
JN12019- 086		<20	0.03	<10	10	9	<10	87	
JN12019- 087		<20	0.04	<10	10	12	<10	124	
JN12019- 088		<20	<0.01	<10	10	48	<10	98	
JN12019- 089		<20	<0.01	<10	<10	64	<10	70	
JN12019- 090		<20	<0.01	20	<10	18	<10	42	
JN12019- 090D		<20	<0.01	20	<10	18	10	42	
JN12019- 091		<20	0.02	10	10	60	10	69	
JN12019- 092		<20	0.02	<10	10	25	10	126	
JN12019- 093		<20	<0.01	10	10	33	10	106	
JN12019- 094		<20	<0.01	<10	10	17	10	146	
JN12019- 095		<20	<0.01	<10	10	15	10	217	
JN12019- 096		<20	<0.01	10	10	9	10	97	
JN12019- 097		<20	<0.01	10	<10	34	10	221	
JN12019- 098		<20	<0.01	10	<10	22	10	152	
JN12019- 099		<20	<0.01	10	<10	63	<10	164	
JN12019- 100		<20	<0.01	<10	10	75	<10	198	
JN12019- 100S		<20	0.15	<10	<10	95	<10	50	
JN12019- 100B		<20	<0.01	<10	<10	1	<10	<2	
JN12019- 101		<20	0.01	10	<10	8	10	221	
JN12019- 102		<20	<0.01	10	<10	31	<10	252	
JN12019- 103		<20	<0.01	10	<10	18	<10	175	
JN12019- 104		<20	0.01	10	<10	21	<10	191	
JN12019- 105		<20	0.03	<10	<10	5	<10	31	
JN12019- 106		<20	0.08	<10	<10	21	<10	33	
JN12019- 107		<20	0.08	<10	<10	27	<10	70	

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CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- AA23 Au ppm 0.005	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
JN12019- 108		1.93	0.021	<0.2	1.32	6	<10	50	3.0	<2	2.07	<0.5	15	25	31	18.9
JN12019- 109		3.12	0.005	<0.2	0.84	2	<10	30	9.5	<2	4.40	<0.5	14	13	<1	23.8
JN12019- 110		5.55	<0.005	<0.2	3.08	<2	<10	20	3.7	<2	4.29	<0.5	1	9	<1	2.01
JN12019- 111		5.34	<0.005	<0.2	3.02	3	<10	<10	3.9	<2	3.48	<0.5	1	8	1	1.33
JN12019- 112		5.92	<0.005	<0.2	1.02	2	<10	<10	0.8	<2	3.83	<0.5	<1	13	<1	3.10
JN12019- 113		5.72	<0.005	<0.2	1.83	9	<10	10	1.1	<2	9.0	<0.5	1	19	<1	6.51
JN12019- 114		5.26	<0.005	<0.2	2.31	6	10	10	4.4	<2	10.6	<0.5	1	29	15	6.39
JN12019- 115		2.10	<0.005	<0.2	1.51	<2	30	<10	0.9	<2	6.27	<0.5	1	16	23	5.08
JN12019- 116		2.42	<0.005	<0.2	0.89	4	40	10	0.9	<2	2.60	<0.5	1	5	12	2.31
JN12019- 117		0.97	<0.005	<0.2	1.41	3	<10	40	5.6	<2	3.42	<0.5	10	19	1	20.9
JN12019- 118		1.10	0.030	<0.2	0.82	8	<10	20	1.5	4	1.32	<0.5	13	27	99	23.0
JN12019- 119		0.83	0.081	1.0	0.38	11	<10	10	1.8	92	1.04	<0.5	28	17	744	21.3
JN12019- 120		1.29	0.253	4.7	0.12	103	<10	10	1.4	154	0.46	<0.5	32	13	487	17.9
JN12019- 120D		<0.02	0.247	4.7	0.13	95	<10	10	1.4	148	0.45	<0.5	30	12	480	17.6
JN12019- 120S		0.04	0.943	0.6	1.78	1380	30	100	<0.5	26	3.96	<0.5	52	26	140	4.02
JN12019- 120B		3.72	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	1	0.07
JN12019- 121		1.50	0.044	4.2	0.22	28	<10	20	1.3	140	0.38	<0.5	70	10	1230	27.0
JN12019- 122		2.59	<0.005	0.3	0.25	8	<10	20	3.0	8	2.30	0.6	14	7	140	28.8
JN12019- 123		1.75	0.056	<0.2	0.19	32	<10	10	1.0	<2	1.11	<0.5	18	11	97	27.4
JN12019- 124		2.75	0.011	<0.2	0.18	8	<10	10	1.3	<2	1.59	<0.5	6	14	8	21.7
JN12019- 125		1.14	1.095	2.1	0.13	89	<10	<10	<0.5	5	0.22	<0.5	21	10	108	21.8
JN12019- 126		1.05	0.011	<0.2	0.55	2	<10	20	3.4	<2	3.14	<0.5	11	13	31	23.0
JN12019- 127		3.48	0.147	0.6	0.94	3	<10	10	1.2	65	3.30	<0.5	3	8	27	3.97
JN12019- 128		4.50	<0.005	<0.2	2.48	3	20	<10	2.9	<2	4.68	<0.5	1	17	6	2.88
JN12019- 129		4.97	<0.005	<0.2	1.42	2	<10	<10	1.3	<2	3.46	<0.5	1	9	3	2.57
JN12019- 130		4.48	<0.005	<0.2	1.47	9	10	10	1.9	<2	4.67	<0.5	1	13	20	3.58
JN12019- 131		4.44	<0.005	<0.2	2.41	3	10	10	3.0	<2	4.79	<0.5	1	15	5	3.11
JN12019- 132		4.67	<0.005	<0.2	1.44	<2	20	10	2.2	<2	3.46	<0.5	1	13	9	2.75
JN12019- 133		1.81	<0.005	0.3	1.60	4	<10	20	5.6	5	4.02	0.5	20	21	120	19.5
JN12019- 134		1.29	<0.005	<0.2	2.54	2	10	30	3.8	2	6.91	<0.5	1	20	21	3.85
JN12019- 135		1.12	<0.005	<0.2	2.16	<2	<10	10	4.5	<2	7.6	<0.5	2	24	26	14.6
JN12019- 136		0.74	<0.005	<0.2	0.99	<2	<10	20	2.8	<2	1.81	0.6	11	24	<1	22.9
JN12019- 137		1.90	0.688	0.9	0.43	60	<10	10	<0.5	3	0.30	<0.5	10	8	24	21.9
JN12019- 138		2.41	2.08	1.8	0.15	78	<10	<10	0.5	<2	1.79	<0.5	14	11	16	18.5
JN12019- 139		0.78	0.088	0.3	0.28	8	<10	20	3.8	<2	2.11	<0.5	15	6	4	22.8
JN12019- 140		3.44	0.540	0.5	0.20	18	<10	<10	<0.5	<2	1.41	<0.5	12	10	20	19.7
JN12019- 140S		0.04	3.99	60.0	1.92	1060	<10	190	<0.5	<2	1.13	<0.5	10	20	103	3.61
JN12019- 140B		3.06	<0.005	0.5	0.02	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.11
JN12019- 141		3.59	0.028	1.1	0.21	24	10	10	1.8	25	2.79	<0.5	8	3	490	7.44
JN12019- 142		3.22	0.028	0.3	0.20	269	<10	<10	2.0	8	3.33	<0.5	4	4	171	4.27

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12019-108		10	1	0.05	20	0.44	11700	<1	0.01	14	150	7	3.75	4	8	27
JN12019-109		10	1	0.01	10	0.29	16150	<1	0.02	<1	850	6	0.07	<2	4	34
JN12019-110		10	1	0.02	10	0.07	1080	1	0.07	<1	330	2	0.02	<2	1	187
JN12019-111		10	<1	0.02	10	0.07	684	4	0.09	<1	430	<2	0.01	<2	1	174
JN12019-112		10	<1	0.01	<10	0.06	1415	<1	0.01	<1	390	<2	<0.01	<2	1	9
JN12019-113		20	1	0.02	<10	0.12	2920	<1	0.02	<1	110	<2	0.04	<2	3	18
JN12019-114		10	1	0.07	10	0.28	2970	5	0.01	2	140	7	0.82	<2	4	92
JN12019-115		20	<1	0.01	<10	0.14	2410	1	0.01	<1	80	3	0.01	<2	2	8
JN12019-116		10	<1	0.04	<10	0.08	1305	<1	0.04	<1	80	<2	0.03	<2	<1	27
JN12019-117		10	1	0.02	<10	0.62	11950	<1	0.03	<1	150	5	0.01	<2	4	67
JN12019-118		10	1	0.03	10	0.52	9690	<1	0.01	<1	160	4	8.97	17	19	9
JN12019-119		10	1	0.02	20	0.57	6290	<1	0.01	4	90	10	7.60	16	15	7
JN12019-120		<10	1	0.02	10	0.18	2170	4	<0.01	6	100	113	>10.0	78	4	5
JN12019-120D		<10	1	0.02	10	0.17	2150	5	<0.01	6	100	109	>10.0	78	4	5
JN12019-120S		<10	<1	0.18	10	0.62	836	10	0.19	23	870	10	0.33	2	3	117
JN12019-120B		<10	<1	<0.01	<10	1.75	25	<1	0.01	<1	60	<2	0.06	<2	<1	5000
JN12019-121		<10	1	0.07	<10	0.14	1020	<1	0.01	7	190	110	>10.0	17	2	25
JN12019-122		10	<1	<0.01	<10	0.79	13150	<1	0.01	<1	320	16	2.89	5	26	52
JN12019-123		<10	1	<0.01	<10	0.45	9120	<1	0.01	<1	130	4	>10.0	38	17	5
JN12019-124		<10	<1	<0.01	<10	0.74	13750	2	0.01	<1	240	5	1.07	<2	25	8
JN12019-125		<10	1	0.01	<10	0.07	1395	1	0.01	26	100	12	>10.0	197	3	2
JN12019-126		10	1	0.03	<10	0.53	10650	<1	0.02	<1	100	8	1.20	2	5	16
JN12019-127		10	1	0.06	<10	0.08	1565	1	0.06	<1	130	15	0.53	<2	1	17
JN12019-128		10	<1	0.02	10	0.09	1385	2	0.07	5	130	5	0.04	<2	2	54
JN12019-129		10	<1	0.03	<10	0.08	1165	8	0.09	<1	380	<2	0.05	<2	1	33
JN12019-130		10	<1	0.03	10	0.17	1855	1	0.06	1	860	3	0.37	<2	1	40
JN12019-131		10	<1	0.04	10	0.18	1520	9	0.13	2	730	2	0.18	<2	2	75
JN12019-132		10	<1	0.02	10	0.13	1270	<1	0.02	1	200	2	0.04	<2	1	23
JN12019-133		10	<1	0.05	30	0.23	10150	<1	0.01	21	210	5	0.92	2	6	19
JN12019-134		10	<1	0.03	20	0.17	1995	2	0.05	2	170	<2	0.04	<2	2	38
JN12019-135		30	<1	0.05	10	0.17	7130	<1	0.02	<1	200	<2	0.12	<2	5	25
JN12019-136		10	<1	0.01	<10	0.74	11600	<1	0.01	<1	140	<2	2.37	<2	5	17
JN12019-137		10	1	0.03	<10	0.08	1945	5	<0.01	3	260	4	>10.0	125	3	2
JN12019-138		<10	<1	0.01	<10	0.07	2100	7	0.01	5	210	<2	>10.0	288	1	7
JN12019-139		10	<1	0.01	<10	0.34	12450	<1	0.01	1	190	<2	>10.0	18	2	13
JN12019-140		<10	1	<0.01	<10	0.01	787	<1	0.01	<1	140	<2	>10.0	127	1	3
JN12019-140S		10	<1	0.27	10	0.82	522	8	0.24	13	620	6	0.14	15	3	94
JN12019-140B		<10	<1	<0.01	<10	1.82	58	<1	0.01	<1	50	<2	0.10	<2	<1	5350
JN12019-141		<10	<1	0.03	<10	0.15	2090	<1	0.01	<1	50	24	3.67	7	<1	29
JN12019-142		<10	<1	0.05	<10	0.13	1610	<1	0.02	<1	40	10	1.71	<2	<1	87

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method Analyte Units LOR	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	W- XRF05 W ppm 10
JN12019- 108		<20	0.01	10	<10	28	<10	148	
JN12019- 109		<20	0.03	<10	<10	17	<10	249	
JN12019- 110		<20	0.08	<10	<10	10	<10	16	
JN12019- 111		<20	0.08	<10	<10	9	10	15	
JN12019- 112		<20	0.04	<10	<10	11	<10	18	
JN12019- 113		<20	0.08	<10	<10	23	<10	17	
JN12019- 114		<20	0.11	<10	<10	30	<10	25	
JN12019- 115		<20	0.07	<10	<10	17	<10	28	
JN12019- 116		<20	0.03	<10	<10	5	<10	20	
JN12019- 117		<20	0.03	<10	<10	20	<10	154	
JN12019- 118		<20	<0.01	10	<10	57	10	116	
JN12019- 119		<20	<0.01	10	<10	32	130	92	
JN12019- 120		<20	<0.01	10	<10	12	90	62	
JN12019- 120D		<20	<0.01	<10	<10	11	90	65	
JN12019- 120S		<20	0.12	<10	<10	65	10	63	
JN12019- 120B		<20	<0.01	<10	10	1	<10	<2	
JN12019- 121		<20	<0.01	10	<10	6	100	37	
JN12019- 122		<20	<0.01	10	<10	44	<10	130	
JN12019- 123		<20	<0.01	10	<10	36	10	122	
JN12019- 124		<20	<0.01	10	<10	45	<10	160	
JN12019- 125		<20	<0.01	10	10	8	<10	96	
JN12019- 126		<20	0.02	<10	<10	18	10	142	
JN12019- 127		<20	0.04	<10	<10	8	<10	29	
JN12019- 128		<20	0.12	<10	<10	17	<10	28	
JN12019- 129		<20	0.08	<10	<10	10	<10	23	
JN12019- 130		<20	0.07	<10	<10	13	<10	27	
JN12019- 131		<20	0.11	<10	<10	16	<10	26	
JN12019- 132		<20	0.06	<10	<10	11	<10	29	
JN12019- 133		<20	0.03	<10	<10	26	<10	160	
JN12019- 134		<20	0.10	<10	<10	22	<10	30	
JN12019- 135		<20	0.06	<10	<10	25	<10	99	
JN12019- 136		<20	<0.01	<10	<10	33	<10	152	
JN12019- 137		<20	<0.01	10	<10	10	10	111	
JN12019- 138		<20	<0.01	10	<10	1	<10	163	
JN12019- 139		<20	0.01	<10	<10	6	10	184	
JN12019- 140		<20	<0.01	10	<10	3	<10	140	
JN12019- 140S		<20	0.15	<10	<10	93	<10	54	
JN12019- 140B		<20	<0.01	<10	10	<1	<10	2	
JN12019- 141		<20	0.01	<10	<10	2	20	36	
JN12019- 142		<20	0.01	<10	<10	2	<10	21	

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	WEI- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
JN12019-143		2.87	0.059	4.7	0.19	2700	10	10	2.0	72	1.97	2.9	5	3	1050	4.54
JN12019-144		3.56	0.034	3.2	0.27	13	10	<10	4.9	36	3.97	1.3	17	4	1210	8.79
JN12019-145		2.41	0.017	<0.2	0.10	4	<10	<10	0.5	10	0.47	<0.5	1	1	11	0.69
JN12019-146		3.35	0.030	<0.2	0.11	<2	<10	<10	1.3	12	1.58	<0.5	1	1	20	2.07
JN12019-147		1.78	0.017	8.1	0.15	4	<10	<10	2.1	213	2.33	0.6	12	2	173	7.92
JN12019-148		4.66	0.008	<0.2	0.15	2	<10	<10	1.3	2	2.02	<0.5	1	1	10	2.23
JN12019-149		4.85	<0.005	<0.2	0.17	2	<10	<10	0.5	4	0.83	<0.5	1	1	41	1.26
JN12019-150		3.12	0.021	0.3	0.16	<2	<10	<10	1.6	19	1.69	<0.5	5	1	161	3.08
JN12019-150D		<0.02	0.020	0.2	0.15	2	<10	<10	1.4	18	1.56	<0.5	4	2	138	2.84
JN12019-151		0.99	0.038	4.5	0.33	2	<10	<10	6.2	117	2.98	0.8	19	6	2020	8.44
JN12019-152		2.91	0.013	0.9	0.27	2	<10	<10	4.0	41	2.97	<0.5	27	9	418	8.80
JN12019-153		1.33	0.107	6.8	0.21	3	<10	<10	2.4	247	0.76	0.5	60	10	629	16.4
JN12019-154		1.06	<0.005	0.2	0.16	<2	<10	<10	3.1	5	1.95	<0.5	5	6	68	3.53
JN12019-155		1.05	0.035	2.3	0.42	9	<10	10	4.2	54	1.41	<0.5	92	6	2340	19.9
JN12019-156		2.99	0.020	0.3	0.37	<2	<10	20	8.9	43	4.23	0.7	15	6	244	20.2
JN12019-157		1.74	0.279	11.2	0.43	1235	<10	10	2.9	635	1.02	6.5	45	6	569	21.2
JN12019-158		4.32	0.054	0.2	3.12	2	20	<10	7.1	26	4.14	<0.5	4	1	116	4.23
JN12019-159		3.87	0.122	0.5	2.78	10	10	10	6.3	44	2.35	<0.5	11	8	574	11.85
JN12019-160		1.19	0.142	<0.2	1.00	2	10	10	7.7	9	3.14	<0.5	1	4	4	2.06
JN12019-160S		0.04	0.979	0.5	1.77	1390	30	100	<0.5	26	3.92	<0.5	50	25	142	3.88
JN12019-160B		1.65	<0.005	0.4	0.03	2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	2	0.06
JN12019-161		2.02	0.018	<0.2	2.49	4	10	40	3.6	3	2.59	<0.5	4	24	14	1.94
JN12019-162		0.65	0.030	<0.2	2.92	3	10	30	14.3	6	2.77	<0.5	1	6	2	1.06
JN12019-163		3.04	0.006	<0.2	1.14	2	<10	70	1.2	2	1.02	<0.5	2	10	7	1.79
JN12019-164		3.65	0.037	0.2	0.97	3	10	70	1.3	9	1.74	<0.5	2	9	16	1.97
JN12019-165		3.51	0.131	1.6	0.70	43	10	70	1.0	31	1.74	0.7	5	6	47	3.12
JN12019-166		4.31	0.387	2.5	0.83	376	20	80	0.9	55	1.79	<0.5	8	7	118	4.57
JN12019-167		3.69	0.077	<0.2	1.05	3	10	110	0.7	10	1.18	<0.5	3	9	15	2.33
JN12019-168		3.82	0.120	0.4	1.22	4	10	60	0.7	17	1.08	<0.5	5	29	28	2.46
JN12019-169		3.39	0.916	0.5	0.70	407	<10	20	<0.5	69	1.41	<0.5	10	30	17	1.77

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CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
JN12019-143		<10	<1	0.03	<10	0.07	1050	1	0.01	1	40	75	1.99	7	<1	9
JN12019-144		10	<1	0.08	<10	0.39	2070	<1	0.03	2	70	10	3.17	<2	<1	6
JN12019-145		<10	<1	0.01	<10	0.02	322	<1	0.01	<1	180	2	0.02	<2	<1	1
JN12019-146		<10	<1	0.03	<10	0.05	969	<1	0.02	<1	330	2	0.13	<2	<1	3
JN12019-147		<10	<1	0.03	<10	0.26	1425	3	0.02	2	180	204	2.47	8	<1	11
JN12019-148		<10	<1	0.03	<10	0.06	1115	1	0.02	<1	330	<2	0.05	<2	<1	3
JN12019-149		<10	<1	0.01	<10	0.05	496	8	0.01	<1	220	<2	0.13	<2	<1	2
JN12019-150		<10	<1	0.02	<10	0.13	1015	4	0.01	<1	140	2	0.81	<2	<1	2
JN12019-150D		<10	<1	0.02	<10	0.12	940	4	0.01	<1	120	2	0.77	<2	<1	2
JN12019-151		10	<1	0.10	<10	0.15	1345	<1	0.04	2	200	25	3.07	<2	<1	3
JN12019-152		10	<1	0.04	<10	0.19	1395	1	0.02	4	390	9	3.56	<2	<1	6
JN12019-153		10	<1	0.10	<10	0.18	676	4	0.01	9	160	177	8.64	8	1	1
JN12019-154		<10	<1	0.03	<10	0.12	1260	17	0.02	1	150	<2	0.68	<2	<1	6
JN12019-155		10	<1	0.08	10	0.19	1040	9	0.01	12	70	7	>10.0	<2	1	2
JN12019-156		10	<1	0.01	10	0.67	7510	2	0.01	<1	140	<2	1.77	<2	1	25
JN12019-157		10	<1	0.09	20	0.21	765	17	0.01	6	130	411	>10.0	34	1	9
JN12019-158		10	<1	0.09	20	0.18	1140	11	0.11	<1	690	3	1.01	<2	1	58
JN12019-159		20	<1	0.19	20	0.43	683	44	0.11	3	940	4	8.26	<2	3	79
JN12019-160		10	<1	0.13	10	0.19	737	48	0.11	1	600	2	0.05	<2	2	64
JN12019-160S		10	<1	0.18	10	0.62	842	10	0.19	24	850	12	0.31	4	3	112
JN12019-160B		<10	<1	<0.01	<10	1.70	26	<1	0.01	<1	60	<2	0.07	<2	<1	5340
JN12019-161		10	<1	0.25	20	0.46	322	48	0.21	10	470	4	0.26	<2	5	117
JN12019-162		10	<1	0.12	10	0.21	211	52	0.29	2	670	4	0.03	<2	2	152
JN12019-163		10	<1	0.28	20	0.32	290	17	0.15	2	480	4	0.09	<2	4	40
JN12019-164		<10	<1	0.34	20	0.28	385	37	0.13	2	440	8	0.31	<2	3	73
JN12019-165		<10	<1	0.34	10	0.25	408	7	0.06	1	450	36	1.41	4	3	87
JN12019-166		<10	<1	0.44	10	0.26	381	8	0.06	1	450	60	2.80	14	3	84
JN12019-167		10	<1	0.48	20	0.36	290	24	0.11	2	530	7	0.41	<2	4	54
JN12019-168		10	<1	0.47	20	0.45	305	32	0.07	10	250	10	0.53	<2	4	41
JN12019-169		<10	<1	0.17	10	0.28	238	20	0.06	7	1920	14	0.34	<2	1	42

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 26- OCT- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12228129

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	W- XRF05
	Analyte	Th	Ti	Tl	U	V	W	Zn	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2	10
JN12019- 143		<20	0.01	<10	<10	2	10	299	
JN12019- 144		<20	0.01	<10	<10	2	60	107	
JN12019- 145		<20	<0.01	<10	<10	<1	<10	11	
JN12019- 146		<20	<0.01	<10	<10	<1	<10	22	
JN12019- 147		<20	<0.01	<10	<10	1	260	40	
JN12019- 148		<20	<0.01	<10	<10	1	150	18	
JN12019- 149		<20	<0.01	<10	<10	1	580	18	
JN12019- 150		<20	0.01	<10	<10	1	380	21	
JN12019- 150D		<20	0.01	<10	<10	1	360	20	
JN12019- 151		<20	0.02	<10	<10	4	160	79	
JN12019- 152		<20	0.01	<10	<10	3	260	26	
JN12019- 153		<20	<0.01	<10	<10	5	600	16	
JN12019- 154		<20	0.01	<10	<10	2	580	18	
JN12019- 155		<20	0.01	10	<10	9	920	32	
JN12019- 156		<20	0.01	<10	<10	9	300	85	
JN12019- 157		<20	<0.01	<10	<10	5	1380	711	2250
JN12019- 158		<20	0.05	<10	<10	9	1210	33	1190
JN12019- 159		<20	0.05	<10	<10	20	690	23	
JN12019- 160		<20	0.03	<10	<10	9	1210	18	9520
JN12019- 160S		<20	0.12	<10	<10	64	10	68	
JN12019- 160B		<20	<0.01	<10	10	<1	<10	<2	
JN12019- 161		<20	0.13	<10	<10	32	1670	19	1690
JN12019- 162		20	0.06	<10	<10	11	910	13	
JN12019- 163		<20	0.11	<10	<10	21	570	17	
JN12019- 164		<20	0.04	<10	<10	14	240	43	
JN12019- 165		<20	0.02	<10	<10	10	30	77	
JN12019- 166		<20	0.03	<10	<10	10	10	23	
JN12019- 167		<20	0.07	<10	<10	18	50	24	
JN12019- 168		<20	0.09	<10	<10	26	90	17	
JN12019- 169		<20	0.03	<10	<10	9	110	10	

5.3 – Silt and Soil Samples

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE WH12179308

Project:

P.O. No.: JN12- 006

This report is for 107 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

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- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL019 00+00		0.43	0.0191	0.32	2.15	405	<0.2	<10	50	0.91	31.3	0.36	0.28	47.2	11.0	23
JNL019 00+50W		0.41	0.0073	0.12	1.55	107.0	<0.2	<10	60	0.79	22.2	0.13	0.10	46.5	9.8	18
JNL019 01+00W		0.36	0.0045	0.11	1.41	73.0	<0.2	<10	60	0.68	3.44	0.28	0.29	34.4	10.7	16
JNL019 01+50W		0.51	0.0030	0.14	2.11	89.6	<0.2	<10	60	1.17	1.91	0.19	0.12	67.2	14.7	25
JNL019 02+00W		0.43	0.0004	0.06	1.05	4.2	<0.2	<10	30	0.73	0.11	1.50	0.24	47.1	7.8	15
JNL019 02+50W		0.43	0.0005	0.05	1.74	2.7	<0.2	<10	60	0.90	0.08	1.59	0.29	50.2	4.7	20
JNL019 03+00W		0.47	0.0008	0.05	1.46	7.1	<0.2	<10	50	0.90	0.16	2.42	0.16	52.7	8.0	17
JNL019 03+50W		0.53	0.0012	0.05	0.88	14.4	<0.2	<10	60	0.74	0.27	5.36	0.04	49.5	8.1	12
JNL019 04+00W		0.47	0.0012	0.05	1.84	13.6	<0.2	<10	70	1.30	0.30	3.81	0.13	47.2	13.4	19
JNL019 04+50W		0.47	0.0004	0.03	1.57	10.1	<0.2	<10	60	1.02	0.22	4.71	0.08	49.7	6.0	17
JNL019 05+00W		0.50	0.0008	0.04	1.50	12.1	<0.2	<10	60	0.93	0.26	2.85	0.10	46.1	6.7	15
JNL020 00+00		0.27	0.0003	0.03	1.66	7.2	<0.2	<10	40	0.67	0.15	1.53	0.12	37.1	5.2	16
JNL020 00+50W		0.36	0.0003	0.03	1.81	3.3	<0.2	<10	50	1.13	0.10	0.82	0.12	42.0	7.3	24
JNL020 01+00W		0.39	0.0003	0.04	2.04	5.2	<0.2	<10	30	0.99	0.14	0.80	0.12	55.7	6.8	25
JNL020 01+50W		0.31	0.0004	0.04	1.55	9.4	<0.2	<10	60	1.07	0.25	1.47	0.21	45.5	6.9	14
JNL020 02+00W		0.34	0.0006	0.09	1.27	11.7	<0.2	<10	90	1.24	0.27	2.04	0.13	59.4	10.5	11
JNL020 02+50W		0.37	0.0005	0.04	1.29	4.9	<0.2	<10	80	0.87	0.13	2.09	0.10	48.7	6.5	10
JNL020 03+00W		0.34	0.0010	0.07	1.36	12.4	<0.2	<10	60	1.06	0.29	2.79	0.14	50.5	8.5	14
JNL021 00+00		0.40	0.0024	0.29	1.75	80.4	<0.2	<10	50	0.94	1.07	1.81	0.21	43.2	9.9	19
JNL021 00+50E		0.43	0.0279	0.23	2.25	249	<0.2	<10	50	1.19	42.9	0.17	0.17	43.7	14.5	24
JNL021 01+00E		0.42	0.0014	0.08	1.72	18.5	<0.2	<10	60	1.22	0.56	1.74	0.13	56.2	9.7	17
JNL021 01+50E		0.46	0.0015	0.08	1.75	24.5	<0.2	<10	70	1.11	0.69	0.59	0.06	60.9	8.2	18
JNL021 02+00E		0.38	0.0003	0.07	1.25	3.6	<0.2	<10	50	0.93	0.12	1.75	0.33	45.7	6.0	12
JNL021 02+50E		0.35	0.0002	0.04	1.10	2.0	<0.2	<10	60	0.56	0.07	1.97	0.14	26.4	4.5	10
JNL021 03+00E		0.39	0.0003	0.05	1.70	3.6	<0.2	<10	50	0.81	0.09	1.12	0.23	43.9	6.1	19
JNL021 03+50E		0.49	0.0001	0.04	1.47	4.5	<0.2	<10	40	0.93	0.09	1.06	0.22	73.3	6.3	18
JNL021 04+00E		0.61	0.0008	0.03	1.16	11	<0.2	<10	40	0.83	0.15	11.85	0.08	39.0	6.3	12
JNL022 00+00		0.51	0.0025	0.67	2.25	27.5	<0.2	<10	30	1.32	0.97	0.05	0.37	65.5	40.7	23
JNL022 00+50E		0.41	0.0010	0.11	1.00	13.9	<0.2	<10	50	0.35	0.33	0.08	0.07	30.0	6.1	8
JNL022 01+00E		0.43	0.0038	0.83	1.54	50.4	<0.2	<10	60	1.70	0.73	0.07	0.38	56.1	76.2	16
JNL022 01+50E		0.37	0.0012	0.45	0.70	9.0	<0.2	<10	10	0.41	0.26	0.03	0.10	12.30	7.6	6
JNL022 02+00E		0.54	0.0031	0.34	1.55	57.8	<0.2	<10	50	0.93	0.83	0.12	0.24	45.5	16.4	19
JNL022 02+50E		0.47	0.0035	2.40	0.59	15.7	<0.2	<10	20	0.15	0.43	0.02	0.15	40.9	3.1	8
JNL022 03+00E		0.53	0.0018	0.47	0.26	17.1	<0.2	<10	10	0.17	0.29	0.01	0.25	39.2	3.7	6
JNL022 03+50E		0.50	0.0039	0.31	1.27	43.6	<0.2	<10	20	0.40	0.60	0.02	0.21	66.2	9.7	14
JNL022 04+00E		0.48	0.0056	1.50	1.91	39.4	<0.2	<10	30	0.67	0.67	0.04	0.40	34.4	14.3	21
JNL022 04+50E		0.50	0.0059	0.35	1.07	31.4	<0.2	<10	40	0.44	0.63	0.42	0.76	46.0	12.0	14
JNL022 05+00E		0.47	0.0029	0.26	1.37	35.3	<0.2	<10	50	0.45	0.62	0.03	0.27	44.8	10.1	15
JNL022 05+50E		0.45	0.0018	0.37	0.91	42.4	<0.2	<10	40	0.33	0.92	0.17	0.28	36.5	11.3	14
JNL022 06+00E		0.49	0.0061	1.03	1.27	42.9	<0.2	<10	60	0.43	0.98	0.43	0.26	24.1	6.6	13

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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
JNL019 00+00		10.85	42.4	3.68	7.72	0.05	0.03	0.05	0.245	0.10	19.9	26.7	0.35	358	0.74	0.01
JNL019 00+50W		4.85	18.9	2.52	5.78	0.06	0.03	0.03	0.088	0.08	18.6	23.9	0.80	522	0.48	0.01
JNL019 01+00W		3.53	19.3	2.20	4.53	0.05	0.05	0.04	0.089	0.10	15.5	19.7	0.66	654	0.43	0.01
JNL019 01+50W		5.23	36.8	3.58	6.44	0.07	0.04	0.03	0.090	0.13	31.2	32.4	0.63	533	0.44	0.01
JNL019 02+00W		1.07	11.5	1.63	3.66	0.11	0.06	0.03	0.033	0.08	24.1	15.1	0.99	353	0.48	0.01
JNL019 02+50W		0.85	8.3	1.66	5.42	0.10	0.06	0.04	0.037	0.06	27.6	24.2	1.82	368	0.32	0.01
JNL019 03+00W		1.23	12.5	1.83	4.68	0.08	0.07	0.04	0.034	0.10	25.4	21.3	1.40	382	0.37	0.01
JNL019 03+50W		1.49	12.9	1.72	2.73	0.05	0.06	0.03	0.036	0.08	20.8	12.0	0.46	386	0.43	0.01
JNL019 04+00W		2.44	14.8	2.28	5.60	0.08	0.17	0.05	0.038	0.15	21.8	27.4	1.58	390	0.45	0.01
JNL019 04+50W		1.03	8.8	1.95	4.32	0.07	0.05	0.03	0.032	0.09	22.9	21.6	1.16	283	0.35	0.01
JNL019 05+00W		1.03	10.9	1.90	4.40	0.09	0.07	0.01	0.030	0.09	23.3	19.9	1.09	250	0.34	0.01
JNL020 00+00		1.72	7.6	1.47	5.28	0.09	0.04	0.03	0.023	0.07	16.8	34.7	1.62	181	0.48	0.01
JNL020 00+50W		0.73	10.0	1.91	6.15	0.09	0.08	0.03	0.026	0.10	19.3	25.4	1.70	255	0.26	0.01
JNL020 01+00W		1.50	8.2	2.02	6.75	0.09	0.05	0.03	0.034	0.05	23.8	34.4	2.08	239	0.34	0.01
JNL020 01+50W		0.62	10.0	1.73	4.89	0.08	0.09	0.04	0.036	0.09	21.4	21.4	1.38	256	0.52	0.01
JNL020 02+00W		0.89	14.0	2.14	3.83	0.09	0.09	0.06	0.036	0.07	31.3	15.4	1.02	917	0.61	0.01
JNL020 02+50W		0.39	10.4	1.70	3.36	0.07	0.07	0.04	0.028	0.07	24.2	11.8	0.97	553	0.51	0.01
JNL020 03+00W		0.78	14.7	2.09	3.84	0.08	0.08	0.05	0.033	0.10	28.2	16.1	1.27	380	0.44	0.01
JNL021 00+00		3.02	25.4	2.48	5.24	0.08	0.08	0.04	0.074	0.10	23.2	26.4	0.76	376	0.42	0.03
JNL021 00+50E		9.87	42.4	3.75	7.88	0.06	0.03	0.04	0.180	0.13	20.1	34.0	0.48	330	0.62	0.01
JNL021 01+00E		1.33	14.8	2.47	4.95	0.09	0.10	0.04	0.040	0.11	29.9	23.1	1.53	396	0.64	0.01
JNL021 01+50E		1.37	10.2	2.42	5.21	0.07	0.13	0.04	0.050	0.09	28.8	23.3	1.25	475	0.44	<0.01
JNL021 02+00E		0.81	8.2	1.41	4.08	0.10	0.07	0.05	0.029	0.05	24.6	16.2	1.15	405	0.29	0.01
JNL021 02+50E		0.89	11.0	1.01	3.03	0.08	0.06	0.03	0.017	0.04	13.9	11.5	0.84	234	0.21	0.02
JNL021 03+00E		0.88	10.5	1.36	5.34	0.12	0.12	0.02	0.020	0.05	23.9	27.0	1.85	378	0.44	0.01
JNL021 03+50E		0.62	9.8	1.86	5.04	0.11	0.07	0.02	0.037	0.07	32.8	22.1	1.55	563	0.49	0.01
JNL021 04+00E		1.02	9.1	1.49	3.46	0.08	0.05	0.02	0.022	0.09	19.3	16.3	1.03	245	0.33	0.01
JNL022 00+00		8.20	50.8	5.39	6.70	0.09	0.13	0.06	0.084	0.04	33.0	54.8	0.71	1820	0.68	0.01
JNL022 00+50E		2.85	19.3	2.29	3.96	<0.05	<0.02	0.02	0.034	0.02	15.3	9.0	0.12	590	0.60	0.01
JNL022 01+00E		6.24	82.5	5.72	4.53	0.08	0.06	0.05	0.056	0.03	26.1	36.6	0.51	2170	0.64	0.01
JNL022 01+50E		2.95	23.5	2.03	2.83	<0.05	0.05	0.04	0.020	0.02	7.0	8.3	0.13	303	0.40	0.02
JNL022 02+00E		3.21	36.2	4.10	4.36	0.06	0.05	0.03	0.073	0.05	21.0	34.4	0.45	756	0.60	0.01
JNL022 02+50E		2.41	16.0	2.25	4.75	0.05	<0.02	0.05	0.380	0.03	23.1	2.6	0.04	89	0.79	0.01
JNL022 03+00E		1.42	9.5	4.16	2.50	0.05	<0.02	0.03	0.081	0.02	20.5	0.6	0.01	111	0.68	0.01
JNL022 03+50E		4.03	27.9	4.39	5.25	0.08	0.04	0.03	0.056	0.04	38.4	21.9	0.33	312	0.47	<0.01
JNL022 04+00E		3.29	24.1	4.20	5.32	0.05	0.04	0.06	0.081	0.04	17.7	33.3	0.38	620	0.62	0.01
JNL022 04+50E		2.09	23.7	4.10	3.75	0.05	0.04	0.03	0.143	0.05	23.2	22.5	0.29	753	0.38	<0.01
JNL022 05+00E		2.38	28.2	4.41	4.61	0.06	<0.02	0.02	0.127	0.04	23.6	16.5	0.23	502	0.61	0.01
JNL022 05+50E		2.25	23.1	4.14	5.82	0.05	<0.02	0.02	0.078	0.04	18.3	15.0	0.21	898	0.47	0.01
JNL022 06+00E		2.72	20.4	3.72	4.54	<0.05	<0.02	0.03	0.115	0.03	12.9	17.9	0.22	456	0.52	0.01

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL019 00+00		0.93	29.3	770	16.6	26.4	<0.001	0.08	2.27	1.6	0.2	7.7	49.0	0.01	0.36	2.6
JNL019 00+50W		0.59	17.8	600	24.6	24.0	<0.001	0.03	0.97	1.2	0.3	2.1	15.7	<0.01	0.11	1.7
JNL019 01+00W		0.53	16.0	970	14.0	34.9	<0.001	0.06	0.98	1.6	0.3	2.3	27.1	<0.01	0.03	1.8
JNL019 01+50W		0.84	33.3	610	28.1	25.7	<0.001	0.03	2.35	2.6	0.4	2.4	26.5	<0.01	0.05	3.9
JNL019 02+00W		0.10	14.9	1610	11.7	9.5	<0.001	0.06	0.39	3.0	0.9	0.3	87.7	<0.01	0.01	1.9
JNL019 02+50W		0.14	10.6	1290	11.2	11.4	<0.001	0.06	0.19	3.4	0.8	0.3	105.0	<0.01	<0.01	1.8
JNL019 03+00W		0.15	15.7	1890	14.2	11.7	<0.001	0.05	0.58	3.5	0.9	0.5	112.0	<0.01	0.01	2.4
JNL019 03+50W		0.18	16.5	1900	15.1	8.1	<0.001	0.02	1.23	3.3	0.3	0.6	252	<0.01	0.02	3.5
JNL019 04+00W		0.20	18.5	1280	16.3	13.8	<0.001	0.04	0.93	3.7	1.1	0.5	169.5	<0.01	0.02	4.9
JNL019 04+50W		0.17	13.5	1290	12.5	11.2	<0.001	0.02	0.53	3.7	1.0	0.5	205	<0.01	0.02	4.2
JNL019 05+00W		0.19	13.4	1290	13.3	9.3	<0.001	0.03	0.65	3.5	0.7	0.5	133.0	<0.01	0.01	3.5
JNL020 00+00		0.30	10.4	1320	13.1	9.9	0.001	0.03	0.60	1.8	0.5	0.5	93.1	<0.01	0.02	1.6
JNL020 00+50W		0.12	14.9	1470	11.6	9.9	<0.001	0.03	0.22	3.9	1.0	0.3	47.6	<0.01	0.01	3.6
JNL020 01+00W		0.28	15.0	1030	12.0	12.9	<0.001	0.02	0.30	4.1	1.2	0.5	57.7	<0.01	0.02	3.3
JNL020 01+50W		0.22	10.8	720	13.4	9.9	0.001	0.06	0.49	2.3	0.8	0.5	89.1	<0.01	0.03	1.5
JNL020 02+00W		0.15	14.4	1660	16.7	10.1	<0.001	0.10	0.58	1.8	1.3	0.4	131.5	<0.01	<0.01	1.3
JNL020 02+50W		0.16	10.6	1310	11.8	7.6	<0.001	0.08	0.26	1.4	0.8	0.3	118.5	<0.01	0.02	0.8
JNL020 03+00W		0.15	15.4	1670	14.9	11.2	<0.001	0.11	0.59	1.7	0.9	0.4	164.5	<0.01	0.02	1.7
JNL021 00+00		0.93	22.6	880	18.5	17.8	<0.001	0.09	2.00	2.5	1.2	1.6	118.0	<0.01	0.04	2.9
JNL021 00+50E		1.44	31.8	360	20.6	37.0	<0.001	0.03	2.77	3.0	0.5	5.1	19.8	0.01	0.79	7.0
JNL021 01+00E		0.30	16.6	1500	17.8	11.3	<0.001	0.05	0.89	3.3	1.2	0.8	98.5	<0.01	0.03	3.1
JNL021 01+50E		0.36	13.6	1000	17.8	15.7	<0.001	0.05	0.96	3.4	0.9	1.0	48.1	<0.01	0.02	4.2
JNL021 02+00E		0.10	9.3	1440	12.5	9.3	<0.001	0.09	0.23	2.2	1.2	0.2	110.0	<0.01	<0.01	1.4
JNL021 02+50E		0.21	6.8	1110	6.9	6.5	<0.001	0.09	0.18	1.4	0.8	0.2	102.0	<0.01	<0.01	0.7
JNL021 03+00E		0.17	12.2	1580	10.4	8.1	<0.001	0.05	0.42	2.9	0.7	0.4	68.6	<0.01	0.01	2.0
JNL021 03+50E		0.06	13.9	1440	13.4	10.6	<0.001	0.04	0.30	3.8	1.1	0.2	65.5	<0.01	0.02	2.2
JNL021 04+00E		0.11	11.8	1410	10.0	7.2	<0.001	0.01	0.52	3.2	0.8	0.3	480	<0.01	0.01	4.9
JNL022 00+00		0.10	41.3	940	91.2	4.9	<0.001	0.03	3.98	1.8	0.9	0.8	7.4	<0.01	0.09	3.5
JNL022 00+50E		0.17	8.4	780	22.8	5.2	<0.001	0.04	1.11	0.3	0.7	0.5	9.2	0.01	0.04	0.4
JNL022 01+00E		0.05	54.4	550	166.0	2.7	<0.001	0.03	7.65	2.9	1.1	0.5	10.2	<0.01	0.09	4.9
JNL022 01+50E		0.16	11.6	750	20.9	2.2	<0.001	0.05	1.95	0.3	0.5	0.3	4.0	<0.01	0.04	0.4
JNL022 02+00E		0.32	31.9	560	59.2	7.6	<0.001	0.02	3.33	2.0	1.0	0.7	11.6	<0.01	0.03	4.0
JNL022 02+50E		0.26	7.2	730	496	6.9	<0.001	0.04	5.39	0.2	0.6	2.4	5.5	<0.01	0.02	0.3
JNL022 03+00E		0.28	9.7	520	91.5	2.7	<0.001	0.02	7.43	0.6	0.4	2.1	2.6	<0.01	0.02	1.5
JNL022 03+50E		0.19	22.7	770	96.1	8.3	<0.001	0.02	2.65	1.0	0.4	0.8	4.9	<0.01	0.01	4.2
JNL022 04+00E		0.60	23.9	720	588	8.6	<0.001	0.04	2.64	1.0	1.3	0.9	7.9	0.01	0.03	1.7
JNL022 04+50E		0.22	23.4	620	279	7.0	<0.001	0.04	3.01	1.6	0.5	0.9	31.9	<0.01	0.03	4.8
JNL022 05+00E		0.59	19.3	490	158.5	7.9	<0.001	0.02	2.77	0.8	0.4	1.0	7.4	<0.01	0.03	1.5
JNL022 05+50E		0.18	19.9	690	67.5	8.8	<0.001	0.03	2.64	0.4	0.6	1.2	14.6	<0.01	0.04	0.3
JNL022 06+00E		0.36	16.1	660	65.9	9.2	<0.001	0.03	2.42	0.7	0.5	1.4	27.2	<0.01	0.01	0.7

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
JNL019 00+00		0.015	0.21	1.08	29	5.50	4.70	64	0.8
JNL019 00+50W		0.015	0.12	0.70	19	0.12	5.60	51	0.7
JNL019 01+00W		0.015	0.13	0.58	17	0.15	5.78	44	1.4
JNL019 01+50W		0.018	0.21	0.91	23	0.14	11.00	71	1.0
JNL019 02+00W		<0.005	0.08	0.51	16	<0.05	14.80	64	2.1
JNL019 02+50W		0.005	0.06	0.51	19	<0.05	16.50	62	1.5
JNL019 03+00W		<0.005	0.12	0.47	14	<0.05	14.70	51	2.0
JNL019 03+50W		0.005	0.18	0.43	11	0.05	10.80	49	1.8
JNL019 04+00W		0.006	0.14	0.44	15	0.07	13.35	66	5.3
JNL019 04+50W		0.005	0.09	0.49	15	0.10	11.75	44	1.8
JNL019 05+00W		0.006	0.08	0.41	14	0.11	12.65	49	2.5
JNL020 00+00		0.010	0.12	0.46	22	0.15	6.79	54	0.9
JNL020 00+50W		0.005	0.09	0.32	22	<0.05	14.25	65	3.0
JNL020 01+00W		0.008	0.09	0.50	26	0.07	12.15	56	1.2
JNL020 01+50W		0.005	0.09	0.44	12	0.07	11.70	37	2.4
JNL020 02+00W		<0.005	0.07	0.50	9	0.05	14.15	43	2.7
JNL020 02+50W		<0.005	0.07	0.44	8	<0.05	11.40	33	2.1
JNL020 03+00W		<0.005	0.09	0.54	10	0.05	12.65	46	2.3
JNL021 00+00		0.020	0.13	0.64	17	0.11	11.00	54	2.4
JNL021 00+50E		0.028	0.24	0.98	27	0.28	5.25	64	0.8
JNL021 01+00E		0.008	0.10	0.58	13	0.08	13.10	52	3.1
JNL021 01+50E		0.007	0.09	0.66	16	0.09	13.80	43	3.5
JNL021 02+00E		<0.005	0.06	0.61	10	<0.05	18.90	49	1.9
JNL021 02+50E		0.008	0.07	0.47	10	<0.05	10.50	31	2.2
JNL021 03+00E		0.007	0.09	0.29	19	<0.05	12.95	65	3.6
JNL021 03+50E		<0.005	0.11	0.52	14	<0.05	16.70	66	2.0
JNL021 04+00E		<0.005	0.09	0.40	10	0.05	9.65	39	2.3
JNL022 00+00		<0.005	0.09	2.11	16	0.05	10.75	155	4.0
JNL022 00+50E		0.007	0.07	0.61	17	0.08	3.03	49	0.5
JNL022 01+00E		<0.005	0.09	2.94	11	0.05	17.90	230	2.4
JNL022 01+50E		0.008	0.04	1.10	8	0.05	2.85	43	1.5
JNL022 02+00E		0.008	0.10	1.21	18	0.15	8.76	112	1.5
JNL022 02+50E		0.009	0.07	0.58	18	0.19	2.16	111	<0.5
JNL022 03+00E		0.008	0.04	0.41	16	0.17	2.85	799	<0.5
JNL022 03+50E		<0.005	0.08	0.83	13	0.09	4.22	152	1.1
JNL022 04+00E		0.017	0.11	1.10	18	0.18	4.56	193	1.1
JNL022 04+50E		0.005	0.08	0.82	11	0.12	4.81	228	1.2
JNL022 05+00E		0.008	0.09	0.70	19	0.16	3.89	182	<0.5
JNL022 05+50E		0.010	0.14	0.79	20	0.13	3.80	109	<0.5
JNL022 06+00E		0.008	0.19	0.77	17	0.16	3.98	112	<0.5

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL022 06+50E		0.51	0.0036	0.29	0.80	96.1	<0.2	<10	90	0.35	1.60	0.04	0.56	27.3	8.1	9
JNL022 07+00E		0.58	0.0083	0.75	1.05	60.4	<0.2	<10	30	0.43	1.22	0.05	0.17	29.7	11.7	12
JNL022 07+50E		0.45	0.0021	0.19	1.05	25.2	<0.2	<10	40	0.49	0.59	0.12	0.17	24.6	7.0	10
JNL022 08+00E		0.45	0.0033	0.20	0.71	33.3	<0.2	<10	70	0.96	0.43	0.12	0.29	54.4	14.0	5
JNL022 08+50E		0.51	0.0021	1.19	1.04	42.4	<0.2	<10	30	0.26	0.60	0.02	0.15	28.1	5.0	12
JNL022 09+00E		0.53	0.0026	0.31	0.98	32.0	<0.2	<10	50	0.48	0.50	0.04	0.27	30.5	7.6	9
JNL022 09+50E		0.53	0.0012	0.10	0.79	21.1	<0.2	<10	50	0.46	0.42	0.29	0.25	21.7	11.4	8
JNL022 10+00E		0.50	0.0014	0.05	0.93	29.5	<0.2	<10	50	0.28	0.79	0.16	0.42	31.8	7.5	13
JNL022 10+50E		0.53	0.0015	0.15	1.09	21.4	<0.2	<10	40	0.25	0.75	0.02	0.14	34.3	7.8	17
JNL022 11+00E		0.54	0.0028	0.22	1.08	32.4	<0.2	<10	50	0.40	0.64	0.04	0.21	32.3	8.3	14
JNL022 11+50E		0.47	0.0020	0.25	1.22	39.6	<0.2	<10	40	0.65	0.65	0.04	0.25	32.7	12.6	13
JNL022 12+00E		0.50	0.0021	0.25	1.25	21.4	<0.2	<10	30	0.32	0.67	0.03	0.14	37.3	10.2	18
JNL022 12+50E		0.46	0.0034	0.38	1.28	33.0	<0.2	<10	40	0.45	0.68	0.01	0.16	35.9	10.0	16
JNL022 13+00E		0.52	0.0036	0.33	1.09	41.5	<0.2	<10	30	0.40	0.76	0.04	0.19	39.2	9.7	13
JNL022 13+50E		0.44	0.0012	0.15	0.75	22.0	<0.2	<10	70	0.27	0.55	0.27	0.38	31.3	7.6	9
JNL022 14+00E		0.51	0.0008	0.26	0.72	21.2	<0.2	<10	40	0.16	0.49	0.02	0.10	35.9	5.3	10
JNL022 14+50E		0.52	0.0010	0.22	1.00	26.2	<0.2	<10	30	0.23	0.72	0.04	0.13	40.9	6.5	12
JNL022 15+00E		0.51	0.0010	0.29	0.83	17.2	<0.2	<10	100	0.83	0.20	7.74	0.40	18.00	7.8	5
LJJNS004		0.47	0.0005	0.05	1.61	4.2	<0.2	<10	70	0.91	0.09	5.03	0.06	52.0	11.0	18
RZJND011		0.53	0.0733	1.05	0.94	418	<0.2	<10	30	0.33	1.62	0.02	0.25	70.0	13.5	12
RZJND012		0.46	0.0021	0.16	1.26	29.6	<0.2	<10	50	0.44	0.42	0.02	0.17	37.4	9.4	13
RZJND013		0.42	0.0013	0.19	1.29	45.6	<0.2	<10	50	0.45	0.43	0.03	0.22	34.0	8.8	14
RZJND014		0.37	0.0052	0.12	1.53	72.7	<0.2	<10	50	0.33	0.52	0.02	0.12	39.1	9.3	21
RZJND015		0.47	0.0043	0.17	1.15	117.5	<0.2	<10	40	0.18	0.46	0.01	0.04	47.7	4.5	11
RZJND016		0.43	0.0046	0.37	1.03	141.0	<0.2	<10	30	0.19	0.45	0.01	0.04	43.4	5.1	10
RZJND017		0.58	0.0056	0.31	0.59	124.5	<0.2	<10	10	0.34	0.36	0.01	0.13	25.4	13.9	9
RZJNS007		0.55	0.0024	0.18	1.07	18.0	<0.2	<10	30	0.41	0.36	0.44	0.18	35.2	11.7	14
RZJNS008		0.61	0.0025	0.16	1.45	12.1	<0.2	<10	30	0.60	0.47	0.20	0.11	56.0	20.1	19
RZJNS009		0.42	0.0032	0.20	1.29	21.0	<0.2	<10	30	0.58	0.48	0.40	0.15	45.6	19.3	16
RZJNS010		0.50	0.0076	0.19	0.91	30.2	<0.2	<10	20	0.40	0.45	0.26	0.10	33.9	14.3	12
RZJNS011		0.55	0.0068	0.17	0.89	30.1	<0.2	<10	20	0.39	0.45	0.26	0.12	39.1	14.3	12
RZJNS012		0.65	0.0034	0.09	1.42	11.5	<0.2	<10	20	0.42	0.51	0.23	0.12	36.0	14.4	21
RZJNS013		0.74	0.0010	0.06	1.58	5.8	<0.2	<10	20	0.43	0.48	0.16	0.10	37.3	15.7	20
RZJNS014		0.74	0.0009	0.08	1.53	5.1	<0.2	<10	20	0.48	0.49	0.19	0.15	40.8	15.5	20
RZJNS015		0.52	0.0007	0.08	1.68	5.7	<0.2	<10	20	0.44	0.53	0.21	0.13	36.6	16.0	24
RZJNS016		0.62	0.0013	0.07	1.67	6.8	<0.2	<10	20	0.45	0.52	0.17	0.07	44.0	17.3	20
RZJNS017		0.58	0.0011	0.07	1.90	7.8	<0.2	<10	30	0.66	0.77	0.18	0.10	50.3	31.7	31
VFL004 00+00		0.58	0.0013	0.18	1.72	8.0	<0.2	<10	40	0.59	0.43	0.43	0.07	38.6	17.7	20
VFL004 00+50N		0.68	0.0013	0.50	1.85	8.6	<0.2	<10	50	0.69	0.48	0.36	0.07	41.7	25.0	20
VFL004 01+00N		0.59	0.0011	0.24	1.91	7.5	<0.2	<10	40	0.71	0.41	0.41	0.06	32.9	16.0	19

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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
JNL022 06+50E		3.96	26.3	3.23	4.70	<0.05	<0.02	0.02	0.129	0.04	12.0	6.2	0.07	2030	0.89	0.01
JNL022 07+00E		2.32	26.1	3.61	3.80	<0.05	0.03	0.02	0.070	0.03	13.4	20.1	0.24	943	0.45	0.01
JNL022 07+50E		3.83	15.1	3.11	3.78	<0.05	0.02	0.03	0.054	0.03	11.9	10.3	0.13	678	0.57	0.01
JNL022 08+00E		5.92	15.6	4.10	2.25	0.07	0.04	0.07	0.035	0.06	25.9	3.4	0.06	1420	0.43	0.01
JNL022 08+50E		4.57	16.8	2.67	4.53	<0.05	<0.02	0.05	0.043	0.04	14.5	13.4	0.18	168	0.54	0.01
JNL022 09+00E		4.15	13.0	2.62	3.64	<0.05	0.02	0.04	0.050	0.04	15.6	13.9	0.15	759	0.46	0.01
JNL022 09+50E		2.55	12.2	5.39	2.95	<0.05	0.02	0.02	0.063	0.03	9.6	2.5	0.06	1340	0.70	0.01
JNL022 10+00E		2.75	13.4	3.32	5.13	<0.05	<0.02	0.02	0.073	0.04	16.3	15.6	0.18	633	0.51	<0.01
JNL022 10+50E		2.90	15.1	3.91	6.79	<0.05	<0.02	0.03	0.035	0.04	17.3	9.7	0.15	1100	0.94	<0.01
JNL022 11+00E		2.87	18.8	3.33	4.73	0.05	0.02	0.03	0.061	0.03	15.9	14.3	0.16	603	0.61	<0.01
JNL022 11+50E		3.58	17.8	4.47	4.74	0.05	0.02	0.03	0.051	0.04	15.8	20.7	0.20	1300	0.57	<0.01
JNL022 12+00E		2.99	17.6	4.55	5.96	<0.05	<0.02	0.04	0.038	0.04	17.2	14.2	0.18	735	0.97	0.01
JNL022 12+50E		6.25	23.4	4.02	5.68	0.05	<0.02	0.05	0.045	0.05	18.9	13.7	0.16	666	0.84	<0.01
JNL022 13+00E		2.79	20.0	3.97	4.71	<0.05	0.02	0.03	0.049	0.03	20.0	14.8	0.19	567	0.56	<0.01
JNL022 13+50E		1.89	12.5	3.03	4.42	<0.05	<0.02	0.03	0.032	0.04	15.9	8.1	0.09	1370	0.81	0.01
JNL022 14+00E		2.39	16.6	2.74	5.00	0.05	<0.02	0.05	0.022	0.04	19.9	3.1	0.05	359	0.80	0.01
JNL022 14+50E		2.45	17.6	3.63	5.68	0.06	0.02	0.03	0.029	0.03	20.0	8.5	0.12	305	0.80	<0.01
JNL022 15+00E		0.66	8.9	7.84	1.95	0.05	0.10	0.05	0.053	0.04	9.9	6.9	4.20	8350	0.58	0.02
LJJNS004		1.19	11.1	2.12	4.37	0.10	0.09	0.03	0.023	0.11	22.6	22.0	1.79	387	0.33	0.01
RZJND011		3.14	30.9	3.68	3.40	0.08	0.02	0.13	0.025	0.06	36.4	19.0	0.28	664	0.55	0.01
RZJND012		1.18	18.7	3.45	3.68	0.05	0.07	0.03	0.021	0.06	18.5	16.2	0.22	492	0.42	<0.01
RZJND013		1.17	19.1	3.98	3.89	0.05	0.10	0.04	0.022	0.06	16.8	13.6	0.19	407	0.42	0.01
RZJND014		2.05	16.4	3.47	5.43	<0.05	<0.02	0.03	0.035	0.07	21.3	16.4	0.25	435	0.92	<0.01
RZJND015		1.44	13.9	2.84	3.95	0.05	0.03	0.02	0.028	0.05	25.2	15.4	0.24	148	0.45	0.01
RZJND016		1.69	16.9	2.66	3.76	0.05	0.02	0.02	0.038	0.05	23.3	11.4	0.17	157	0.49	0.01
RZJND017		3.37	117.0	15.20	1.65	0.07	<0.02	0.03	0.118	0.06	13.2	5.3	0.09	252	0.31	0.01
RZJNS007		1.51	20.0	3.43	2.85	0.05	0.10	0.02	0.045	0.04	16.8	25.1	0.35	912	0.45	0.01
RZJNS008		1.05	34.9	4.17	4.15	0.08	0.06	0.02	0.027	0.04	28.0	37.9	0.51	983	0.61	0.01
RZJNS009		1.29	29.8	4.27	3.44	0.07	0.09	0.02	0.035	0.03	22.3	28.6	0.44	1030	0.42	0.01
RZJNS010		1.09	23.3	3.49	2.50	0.06	0.06	0.02	0.024	0.03	17.1	23.8	0.34	524	0.28	0.01
RZJNS011		1.08	25.5	3.49	2.56	0.06	0.06	0.02	0.024	0.04	18.9	23.1	0.34	576	0.30	0.01
RZJNS012		0.60	24.5	3.79	4.15	0.07	0.06	0.01	0.014	0.03	18.1	36.8	0.55	623	0.79	0.01
RZJNS013		0.59	23.4	3.90	4.27	0.08	0.08	0.02	0.012	0.03	19.8	42.3	0.62	573	0.43	0.01
RZJNS014		0.71	27.5	3.82	4.39	0.07	0.08	0.02	0.015	0.04	21.2	40.4	0.59	695	0.59	0.01
RZJNS015		0.79	30.7	4.09	4.32	0.07	0.08	0.02	0.012	0.04	18.5	38.9	0.65	609	0.72	0.01
RZJNS016		0.64	28.7	4.11	4.65	0.07	0.09	0.02	0.015	0.03	22.2	42.3	0.64	643	0.45	0.01
RZJNS017		1.23	53.2	4.76	4.98	0.08	0.10	0.02	0.025	0.05	26.1	47.2	0.70	1340	1.66	0.01
VFL004 00+00		0.61	33.1	4.05	4.44	0.07	0.15	0.03	0.024	0.04	19.0	43.9	0.59	555	0.33	0.01
VFL004 00+50N		0.83	40.7	4.21	4.91	0.06	0.16	0.04	0.028	0.04	22.0	53.1	0.63	747	0.41	0.01
VFL004 01+00N		0.71	35.3	3.88	5.01	0.07	0.16	0.02	0.027	0.03	18.1	51.2	0.61	354	0.37	0.01

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL022 06+50E		0.23	10.8	780	87.5	12.7	<0.001	0.05	3.29	0.4	0.4	1.6	7.9	<0.01	0.05	0.3
JNL022 07+00E		0.20	20.2	710	58.2	7.4	<0.001	0.02	2.92	0.6	0.3	0.7	7.4	<0.01	0.04	0.9
JNL022 07+50E		0.26	11.6	1020	40.5	7.0	<0.001	0.05	2.23	0.4	0.4	0.6	9.5	0.01	0.01	0.4
JNL022 08+00E		0.24	20.5	940	58.9	8.4	<0.001	0.04	4.01	1.8	0.5	0.4	10.1	<0.01	0.03	3.0
JNL022 08+50E		0.30	12.9	800	235	9.5	<0.001	0.05	3.90	0.4	<0.2	1.0	5.8	<0.01	0.02	0.6
JNL022 09+00E		0.28	12.9	700	57.0	9.3	<0.001	0.04	3.31	0.7	<0.2	0.7	8.0	<0.01	0.01	1.4
JNL022 09+50E		0.39	16.4	830	49.6	8.7	<0.001	0.05	2.79	1.0	<0.2	0.6	19.6	0.01	0.02	1.3
JNL022 10+00E		0.57	14.7	590	44.8	12.2	<0.001	0.07	2.48	0.6	<0.2	1.2	13.4	<0.01	0.02	1.0
JNL022 10+50E		0.42	13.0	680	34.1	9.0	<0.001	0.09	2.03	0.3	<0.2	1.2	5.2	0.01	0.03	0.3
JNL022 11+00E		0.31	15.0	780	44.1	8.7	<0.001	0.10	2.57	0.4	0.3	0.7	6.4	<0.01	0.03	0.8
JNL022 11+50E		0.30	16.5	1080	60.0	13.7	<0.001	0.09	3.08	0.7	<0.2	0.6	6.5	0.01	0.03	1.5
JNL022 12+00E		0.35	15.6	870	47.0	9.9	<0.001	0.09	2.42	0.3	0.2	0.8	6.4	<0.01	0.03	0.4
JNL022 12+50E		0.39	16.0	1030	65.3	14.7	<0.001	0.05	2.58	0.3	0.2	0.8	6.1	<0.01	0.03	0.5
JNL022 13+00E		0.28	16.9	840	66.3	7.9	<0.001	0.05	2.84	0.5	0.2	0.7	7.7	<0.01	0.03	1.4
JNL022 13+50E		0.33	10.6	640	51.4	9.3	<0.001	0.06	2.42	0.4	<0.2	0.7	18.3	<0.01	0.03	0.4
JNL022 14+00E		0.22	9.8	890	29.8	8.5	<0.001	0.06	2.20	0.2	<0.2	0.7	5.2	<0.01	0.03	0.3
JNL022 14+50E		0.51	13.4	530	29.2	7.3	<0.001	0.06	2.27	0.4	<0.2	0.9	7.1	<0.01	0.02	0.4
JNL022 15+00E		0.22	13.7	1150	48.6	4.7	<0.001	0.11	2.00	1.4	<0.2	0.8	85.1	0.01	0.01	1.3
LJJNS004		0.45	17.1	1840	11.2	10.1	<0.001	0.06	0.37	4.3	<0.2	0.2	214	<0.01	0.01	6.2
RZJND011		0.12	19.2	640	60.9	6.9	<0.001	0.09	8.29	1.3	0.2	1.6	19.0	<0.01	0.03	7.7
RZJND012		0.21	19.5	1100	30.7	8.7	<0.001	0.08	1.72	0.5	<0.2	0.4	5.2	<0.01	0.01	1.8
RZJND013		0.24	19.3	1380	26.5	8.8	<0.001	0.11	1.80	0.5	<0.2	0.6	5.8	<0.01	0.02	2.1
RZJND014		0.90	16.0	470	29.4	13.9	<0.001	0.04	1.68	0.9	0.3	0.8	9.1	<0.01	0.03	2.2
RZJND015		0.27	12.4	490	25.9	10.6	<0.001	0.04	1.66	0.8	<0.2	0.5	8.8	<0.01	0.01	5.1
RZJND016		0.32	9.7	550	38.6	10.7	<0.001	0.04	1.76	0.8	<0.2	0.6	9.5	<0.01	0.02	5.2
RZJND017		<0.05	28.2	580	37.5	5.5	<0.001	0.44	3.26	2.8	0.3	0.3	4.7	0.01	<0.01	25.1
RZJNS007		0.09	25.7	650	31.7	4.4	<0.001	0.06	2.77	2.0	0.5	0.9	37.6	<0.01	0.02	6.1
RZJNS008		0.06	36.0	530	43.2	3.0	<0.001	0.03	1.92	2.4	0.6	1.5	23.3	<0.01	0.03	12.7
RZJNS009		0.07	33.5	820	44.2	3.5	<0.001	0.04	2.79	2.2	0.6	0.5	34.8	<0.01	0.03	8.3
RZJNS010		0.06	27.5	490	33.7	2.8	<0.001	0.10	2.61	1.8	0.2	0.3	26.7	<0.01	0.02	7.8
RZJNS011		0.05	28.8	520	32.9	3.1	<0.001	0.09	2.82	1.9	0.4	0.3	26.6	<0.01	0.01	9.0
RZJNS012		<0.05	32.4	450	30.3	2.6	<0.001	0.06	1.13	1.6	0.4	4.1	19.6	<0.01	0.02	10.7
RZJNS013		<0.05	29.7	440	27.2	2.3	<0.001	0.03	0.71	1.6	<0.2	1.6	14.5	<0.01	0.02	10.6
RZJNS014		<0.05	31.1	480	28.9	2.6	<0.001	0.03	0.76	1.7	0.2	2.5	16.4	<0.01	0.01	10.3
RZJNS015		<0.05	32.3	540	31.5	2.7	0.001	0.05	0.75	1.6	0.2	3.8	16.0	<0.01	0.03	9.7
RZJNS016		<0.05	32.0	500	31.1	2.4	<0.001	0.04	0.79	1.7	0.3	1.1	14.7	<0.01	0.02	10.1
RZJNS017		0.08	44.5	530	55.4	3.4	0.001	0.03	0.83	2.2	0.3	6.2	13.4	<0.01	0.04	10.5
VFL004 00+00		0.10	35.9	700	33.7	2.8	<0.001	0.03	1.30	2.4	0.5	0.4	31.1	<0.01	0.01	8.9
VFL004 00+50N		0.09	41.9	620	39.3	3.1	<0.001	0.03	1.37	3.0	0.7	0.3	30.2	<0.01	0.03	13.1
VFL004 01+00N		0.11	37.6	600	35.4	2.7	<0.001	0.03	1.55	2.7	0.7	0.3	31.6	<0.01	0.03	12.3

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

Sample Description	Method Analyte Units LOR	ME- MS41 Ti % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5
JNL022 06+50E		0.011	0.13	0.77	23	0.16	3.52	109	<0.5
JNL022 07+00E		0.009	0.09	0.82	14	0.11	3.96	91	0.6
JNL022 07+50E		0.008	0.08	0.72	16	0.12	4.93	71	0.5
JNL022 08+00E		0.005	0.11	0.99	10	0.08	10.80	95	1.0
JNL022 08+50E		0.007	0.12	0.76	15	0.21	2.40	100	<0.5
JNL022 09+00E		0.009	0.11	0.58	13	0.11	3.05	86	<0.5
JNL022 09+50E		0.009	0.09	0.67	17	0.11	3.78	93	0.7
JNL022 10+00E		0.014	0.12	0.63	22	0.17	2.78	180	<0.5
JNL022 10+50E		0.015	0.09	0.76	32	0.20	2.58	75	<0.5
JNL022 11+00E		0.007	0.09	0.82	19	0.13	3.69	88	0.5
JNL022 11+50E		0.007	0.11	0.79	17	0.15	4.43	125	0.6
JNL022 12+00E		0.010	0.09	0.82	31	0.16	3.07	75	<0.5
JNL022 12+50E		0.008	0.10	1.15	23	0.15	3.49	86	0.6
JNL022 13+00E		0.007	0.07	0.77	16	0.16	3.08	93	0.7
JNL022 13+50E		0.011	0.06	0.56	20	0.12	2.70	82	<0.5
JNL022 14+00E		0.007	0.07	0.57	24	0.14	1.98	62	<0.5
JNL022 14+50E		0.013	0.08	0.60	28	0.17	2.84	69	<0.5
JNL022 15+00E		0.007	0.07	1.08	10	0.07	8.12	106	2.7
LJJNS004		0.015	0.09	0.56	15	<0.05	10.55	55	4.3
RZJND011		<0.005	0.48	1.20	9	0.51	5.10	87	0.7
RZJND012		0.005	0.08	0.88	11	0.06	4.25	77	1.9
RZJND013		0.005	0.06	0.84	10	0.05	3.40	77	2.7
RZJND014		0.020	0.16	0.88	28	0.27	2.77	73	<0.5
RZJND015		0.005	0.10	0.68	12	0.11	2.16	44	0.8
RZJND016		0.007	0.15	0.77	12	0.12	2.43	44	0.5
RZJND017		<0.005	0.30	1.95	5	0.13	4.58	202	0.7
RZJNS007		<0.005	0.05	1.51	8	0.05	9.64	86	2.5
RZJNS008		<0.005	0.04	2.45	10	<0.05	10.35	87	2.6
RZJNS009		<0.005	0.04	2.56	9	<0.05	12.30	86	2.4
RZJNS010		<0.005	0.06	1.30	7	0.05	7.23	82	1.8
RZJNS011		<0.005	0.05	1.20	7	0.05	7.36	78	1.6
RZJNS012		<0.005	0.03	1.63	9	0.07	5.88	81	2.6
RZJNS013		<0.005	0.02	1.71	9	<0.05	5.62	79	3.0
RZJNS014		<0.005	0.02	2.22	9	<0.05	6.41	78	2.6
RZJNS015		<0.005	0.02	2.93	10	0.06	6.28	88	2.4
RZJNS016		<0.005	0.02	2.89	10	<0.05	6.87	79	2.5
RZJNS017		<0.005	0.04	3.76	11	0.44	7.81	94	3.0
VFL004 00+00		<0.005	0.03	1.27	11	<0.05	12.30	95	4.4
VFL004 00+50N		<0.005	0.04	1.29	11	<0.05	15.35	102	6.2
VFL004 01+00N		<0.005	0.03	1.46	11	<0.05	15.65	95	6.7

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
VFL004 01+50N		0.52	0.0011	0.14	1.58	10.6	<0.2	<10	40	0.63	0.43	0.35	0.09	36.6	23.2	18
VFL004 02+00N		0.63	0.0011	0.23	1.34	6.5	<0.2	<10	40	0.68	0.34	0.48	0.08	37.3	16.1	16
VFL004 02+50N		Empty Bag														
VFL004 03+00N		0.55	0.0009	0.19	1.42	9.0	<0.2	<10	30	0.73	0.44	0.29	0.12	46.3	24.8	16
VFL004 03+50N		0.47	0.0006	0.11	0.91	3.1	<0.2	<10	40	0.49	0.17	0.31	0.13	39.8	6.6	10
VFL004 04+00N		0.36	0.0015	0.16	0.94	10.7	<0.2	<10	30	0.62	0.24	0.81	0.18	48.2	15.9	10
VFL004 04+50N		0.59	0.0005	0.15	0.86	3.1	<0.2	<10	40	0.36	0.19	0.18	0.10	30.1	9.0	9
VFL004 05+00N		0.39	0.0005	0.08	1.09	3.1	<0.2	<10	40	0.41	0.22	0.25	0.06	22.4	5.9	12
VFL004 05+50N		0.54	0.0007	0.06	0.81	9.2	<0.2	<10	50	0.34	0.56	0.37	0.05	22.2	7.0	10
VFL004 06+00N		0.66	0.0010	0.21	1.70	7.1	<0.2	<10	40	0.81	0.47	0.29	0.09	52.0	33.1	19
VFL004 06+50N		0.60	0.0008	0.04	0.39	7.5	<0.2	<10	30	0.26	0.30	0.01	0.02	71.5	5.0	7
VFL004 07+00N		0.38	0.0009	0.10	0.74	11.2	<0.2	<10	70	0.37	0.64	0.06	0.03	37.6	5.5	7
VFL004 07+50N		0.36	0.0009	0.12	0.75	9.7	<0.2	<10	70	0.41	0.57	0.02	0.05	37.9	4.0	7
VFL004 08+00N		0.48	0.0010	0.11	0.71	7.4	<0.2	<10	60	0.51	0.45	0.44	0.05	28.9	4.9	8
VFL004 08+50N		0.47	0.0010	0.16	0.60	19.1	<0.2	<10	40	0.33	0.64	0.06	0.10	25.6	13.5	6
VFL004 09+00N		0.54	0.0013	0.10	0.48	13.4	<0.2	<10	30	0.20	0.60	0.01	0.02	56.0	7.2	6
VFL004 09+50N		0.55	0.0009	0.06	0.77	9.3	<0.2	<10	30	0.34	0.37	0.01	0.05	35.7	8.4	8
VFL004 10+00N		0.58	0.0011	0.06	0.21	8.2	<0.2	<10	20	0.18	0.36	<0.01	0.04	54.8	2.8	4
VFL004 10+50N		0.56	0.0005	0.07	1.19	9.1	<0.2	<10	40	0.37	0.45	0.02	0.13	22.7	12.6	13
VFL004 11+00N		0.47	0.0004	0.05	0.96	2.8	<0.2	<10	40	0.30	0.20	0.04	0.10	14.65	7.5	8
VFL004 11+50N		0.47	0.0004	0.06	0.79	3.5	<0.2	<10	30	0.20	0.23	0.02	0.05	16.85	4.1	8
VFL004 12+00N		0.43	0.0007	0.07	1.19	7.6	<0.2	<10	50	0.37	0.41	0.01	0.09	28.1	10.0	12
VFL004 12+50N		0.47	0.0017	0.16	1.29	7.8	<0.2	<10	60	0.75	0.48	0.32	0.09	48.1	10.0	14
VFL004 13+00N		0.43	0.0003	0.04	0.78	4.1	<0.2	<10	60	0.24	0.28	0.14	0.07	21.4	2.8	6
VFL004 13+50N		0.39	0.0009	0.05	1.67	9.4	<0.2	<10	80	0.60	0.36	0.13	0.17	31.6	9.7	20
VFL004 14+00N		0.50	0.0007	0.03	1.24	7.6	<0.2	<10	50	0.58	0.33	0.08	0.11	37.5	8.6	12
VFL004 14+50N		0.54	0.0008	0.05	1.21	9.4	<0.2	<10	40	0.53	0.39	0.02	0.08	46.3	10.9	13

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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
VFL004 01+50N		0.72	34.8	3.92	4.42	0.08	0.15	0.03	0.026	0.04	18.8	49.1	0.61	778	0.35	0.01
VFL004 02+00N		0.48	32.2	3.39	3.84	0.07	0.16	0.04	0.031	0.03	18.0	39.8	0.45	587	0.39	0.01
VFL004 02+50N																
VFL004 03+00N		0.79	36.8	3.69	3.88	0.08	0.09	0.04	0.027	0.03	22.9	41.7	0.51	744	0.29	<0.01
VFL004 03+50N		0.27	14.5	2.63	2.54	0.06	0.09	0.04	0.029	0.02	20.4	20.5	0.26	940	0.19	0.01
VFL004 04+00N		0.33	27.4	3.80	2.85	0.08	0.10	0.06	0.032	0.02	19.0	21.4	0.22	747	0.84	0.01
VFL004 04+50N		0.42	19.3	2.02	2.48	0.05	0.07	0.04	0.030	0.02	13.6	19.7	0.23	772	0.21	0.02
VFL004 05+00N		0.62	16.8	2.30	3.31	<0.05	0.05	0.03	0.023	0.02	11.3	25.8	0.28	394	0.28	0.01
VFL004 05+50N		1.71	17.5	2.25	3.80	<0.05	0.03	0.02	0.018	0.04	12.3	10.9	0.12	353	0.50	0.01
VFL004 06+00N		1.22	42.1	4.11	4.81	0.08	0.07	0.03	0.030	0.04	26.4	53.1	0.61	1040	0.37	0.01
VFL004 06+50N		0.95	23.6	2.23	1.59	0.08	<0.02	0.02	0.014	0.06	37.3	6.1	0.07	143	0.32	<0.01
VFL004 07+00N		2.05	14.0	2.19	2.11	<0.05	0.03	0.04	0.020	0.06	20.3	9.7	0.08	191	0.35	0.01
VFL004 07+50N		2.17	12.3	2.01	2.25	0.05	0.04	0.02	0.022	0.06	19.5	9.8	0.08	112	0.38	0.01
VFL004 08+00N		2.15	24.2	2.83	2.13	<0.05	0.12	0.02	0.021	0.06	15.6	7.5	0.07	168	0.44	0.01
VFL004 08+50N		3.45	15.2	2.37	1.93	<0.05	0.02	0.03	0.018	0.06	12.9	4.0	0.03	730	0.78	0.01
VFL004 09+00N		2.34	15.4	2.25	1.86	0.06	<0.02	0.02	0.017	0.05	30.0	2.8	0.03	381	0.54	<0.01
VFL004 09+50N		1.33	19.4	2.35	2.38	<0.05	0.03	0.02	0.019	0.04	17.4	14.1	0.15	285	0.46	<0.01
VFL004 10+00N		1.66	11.3	1.21	0.92	0.06	<0.02	0.01	0.016	0.06	28.5	0.9	<0.01	76	0.32	<0.01
VFL004 10+50N		1.80	19.8	3.39	3.89	<0.05	0.03	0.05	0.025	0.05	11.2	17.9	0.23	889	0.70	0.01
VFL004 11+00N		1.12	12.4	1.92	3.48	<0.05	0.02	0.03	0.014	0.03	6.3	9.3	0.11	792	0.43	0.02
VFL004 11+50N		1.45	10.6	1.78	3.52	<0.05	<0.02	0.03	0.013	0.03	8.6	6.2	0.08	236	0.59	0.01
VFL004 12+00N		1.55	20.4	3.42	4.02	<0.05	0.05	0.04	0.017	0.04	14.5	9.7	0.12	872	0.61	0.01
VFL004 12+50N		0.63	31.9	3.71	3.04	0.07	0.10	0.05	0.026	0.04	25.7	27.5	0.40	260	0.41	0.01
VFL004 13+00N		1.35	8.2	1.51	3.58	<0.05	<0.02	0.02	0.011	0.04	10.8	3.2	0.05	247	0.50	0.01
VFL004 13+50N		1.58	16.1	2.84	4.42	<0.05	<0.02	0.02	0.034	0.05	15.8	19.1	0.42	521	0.77	0.01
VFL004 14+00N		1.12	17.1	3.03	3.09	<0.05	0.06	0.02	0.028	0.04	16.3	19.3	0.28	572	0.45	0.01
VFL004 14+50N		1.50	21.1	3.10	3.05	0.05	0.05	0.02	0.028	0.04	23.4	22.3	0.24	489	0.52	0.01

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
VFL004 01+50N		0.05	37.1	620	41.0	2.3	<0.001	0.02	2.07	2.6	0.4	0.2	27.6	<0.01	0.03	14.7
VFL004 02+00N		0.14	32.0	720	34.1	2.5	<0.001	0.04	1.17	3.0	1.2	0.5	36.6	<0.01	0.03	6.8
VFL004 02+50N																
VFL004 03+00N		<0.05	37.0	660	50.7	2.3	<0.001	0.01	0.94	3.1	0.8	0.3	31.1	<0.01	0.03	13.0
VFL004 03+50N		0.13	14.4	700	22.5	2.5	<0.001	0.03	0.37	3.4	0.9	0.2	25.3	<0.01	0.02	2.6
VFL004 04+00N		0.07	35.8	1360	72.4	3.0	<0.001	0.08	0.98	2.7	0.9	0.2	53.1	<0.01	0.02	2.1
VFL004 04+50N		0.20	15.0	570	24.0	2.4	<0.001	0.02	0.31	2.9	0.7	0.2	17.8	<0.01	0.02	3.2
VFL004 05+00N		0.21	14.5	780	19.3	3.8	<0.001	0.04	0.21	2.1	0.6	0.3	24.1	0.01	0.02	1.7
VFL004 05+50N		0.33	13.6	1000	20.6	6.7	<0.001	0.06	0.89	0.6	0.3	0.6	30.8	0.01	0.03	0.9
VFL004 06+00N		0.08	40.5	660	52.1	3.6	<0.001	0.02	0.71	3.4	0.7	0.2	31.7	<0.01	0.04	12.6
VFL004 06+50N		0.13	12.0	280	20.0	5.9	<0.001	0.01	0.73	1.5	0.4	0.2	5.5	<0.01	0.02	10.0
VFL004 07+00N		0.11	10.8	580	28.3	11.3	<0.001	0.02	0.72	1.2	0.2	0.3	29.2	<0.01	0.02	4.3
VFL004 07+50N		0.12	9.7	630	29.2	12.2	<0.001	0.03	0.68	1.2	0.2	0.4	29.4	<0.01	0.01	4.2
VFL004 08+00N		0.18	14.9	770	22.7	9.9	<0.001	0.06	0.86	1.7	0.6	0.3	39.0	<0.01	0.03	5.6
VFL004 08+50N		0.18	11.0	870	40.7	8.9	<0.001	0.07	1.78	0.6	0.6	0.6	17.2	<0.01	0.03	1.8
VFL004 09+00N		0.12	9.3	480	37.8	9.2	<0.001	0.02	1.98	1.3	<0.2	0.3	13.3	<0.01	0.03	4.6
VFL004 09+50N		0.21	17.0	480	23.8	6.8	0.001	0.03	1.07	1.0	0.2	0.3	6.5	<0.01	0.02	2.7
VFL004 10+00N		0.06	5.4	350	20.2	5.8	<0.001	0.02	0.76	0.6	0.4	0.2	12.0	<0.01	0.01	3.9
VFL004 10+50N		0.31	18.1	1160	32.0	8.2	<0.001	0.07	1.12	0.4	0.3	0.5	5.6	<0.01	0.02	0.7
VFL004 11+00N		0.18	7.5	980	18.5	5.4	<0.001	0.05	0.44	0.3	<0.2	0.3	6.3	<0.01	0.01	0.3
VFL004 11+50N		0.23	7.9	870	12.6	7.1	<0.001	0.05	0.46	0.1	<0.2	0.4	5.1	<0.01	0.02	0.2
VFL004 12+00N		0.22	15.8	1400	26.7	8.1	<0.001	0.06	1.56	0.5	0.6	0.4	4.9	<0.01	0.02	1.3
VFL004 12+50N		0.08	33.7	560	37.0	5.6	<0.001	0.03	0.59	4.1	1.0	0.2	57.3	<0.01	0.03	8.4
VFL004 13+00N		0.29	5.3	700	8.2	8.4	<0.001	0.06	0.51	0.2	<0.2	0.5	19.8	0.01	0.01	0.2
VFL004 13+50N		0.78	18.4	740	36.8	9.8	<0.001	0.03	0.61	1.5	0.5	0.5	19.3	0.01	0.04	1.5
VFL004 14+00N		0.36	21.4	640	28.2	6.7	<0.001	0.04	1.14	1.8	<0.2	0.3	14.7	<0.01	0.02	3.4
VFL004 14+50N		0.30	23.0	640	31.2	8.0	<0.001	0.03	1.04	1.7	0.7	0.3	7.6	<0.01	0.03	4.5

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

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 18- AUG- 2012
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CERTIFICATE OF ANALYSIS WH12179308

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
VFL004 01+50N		<0.005	0.03	1.41	10	<0.05	13.30	94	8.2
VFL004 02+00N		<0.005	0.03	1.54	9	<0.05	19.10	76	5.9
VFL004 02+50N									
VFL004 03+00N		<0.005	0.03	1.20	9	<0.05	14.20	100	5.4
VFL004 03+50N		0.006	0.02	0.78	9	<0.05	17.60	50	2.8
VFL004 04+00N		<0.005	0.04	1.25	8	<0.05	24.0	96	2.9
VFL004 04+50N		0.008	0.03	0.88	8	<0.05	15.85	44	2.2
VFL004 05+00N		0.008	0.03	0.88	10	<0.05	10.80	47	1.4
VFL004 05+50N		0.008	0.07	1.36	13	0.14	6.61	43	0.8
VFL004 06+00N		<0.005	0.04	2.10	10	<0.05	16.45	108	4.0
VFL004 06+50N		<0.005	0.06	1.47	6	0.08	3.24	44	<0.5
VFL004 07+00N		<0.005	0.14	1.20	6	0.10	3.88	45	0.7
VFL004 07+50N		<0.005	0.16	1.17	7	0.10	3.72	42	0.9
VFL004 08+00N		<0.005	0.09	1.41	7	0.10	3.50	55	2.9
VFL004 08+50N		<0.005	0.17	1.17	7	0.18	3.81	40	<0.5
VFL004 09+00N		<0.005	0.16	0.92	8	0.22	2.91	35	<0.5
VFL004 09+50N		0.005	0.08	1.08	8	0.10	3.48	48	0.9
VFL004 10+00N		<0.005	0.08	0.85	3	0.12	2.21	21	<0.5
VFL004 10+50N		0.008	0.08	1.08	16	0.12	2.95	68	0.5
VFL004 11+00N		0.009	0.05	0.72	11	0.07	2.32	35	0.8
VFL004 11+50N		0.006	0.05	0.72	14	0.08	1.72	36	0.5
VFL004 12+00N		<0.005	0.09	1.00	14	0.09	3.28	63	1.6
VFL004 12+50N		<0.005	0.07	1.38	7	<0.05	19.85	97	2.8
VFL004 13+00N		0.010	0.05	0.54	17	0.14	2.63	23	<0.5
VFL004 13+50N		0.025	0.10	1.34	26	0.26	6.77	91	<0.5
VFL004 14+00N		0.011	0.07	1.45	13	0.10	8.84	63	1.4
VFL004 14+50N		0.007	0.08	1.35	12	0.12	7.24	66	1.2

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

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

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 18- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179308

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE WH12179309

Project:

P.O. No.: JN12- 002

This report is for 175 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

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	
Au- AROR43	Au AR Overrange - 25g	
Au- TL43	Trace Level Au - 25g AR	ICP- MS
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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 WH12179309

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JKJNS001		0.30	0.0020	0.18	0.26	92.0	<0.2	<10	20	0.31	0.36	7.67	0.50	24.6	22.9	7
JKJNS002		0.22	0.0042	0.71	1.55	139.0	<0.2	<10	60	1.01	0.76	0.71	0.62	30.1	15.3	17
JKJNS003		0.52	0.0034	0.16	0.89	66.3	<0.2	<10	50	1.70	0.36	0.45	3.05	35.4	27.3	15
JKVFS001		0.76	0.0018	0.18	1.05	476	<0.2	<10	20	0.38	0.60	0.30	0.41	31.7	11.9	18
JKVFS002		0.52	0.0029	0.27	1.09	82.5	<0.2	<10	30	0.58	0.42	0.64	0.61	32.3	13.7	16
JNL013 00+00		0.51	0.0031	0.45	2.29	40.7	<0.2	<10	80	0.50	0.51	0.27	0.16	38.5	8.7	30
JNL013 00+50E		0.32	0.0037	0.34	0.78	491	<0.2	<10	100	0.79	0.37	1.07	1.15	48.0	73.5	15
JNL013 01+00E		0.48	0.0029	0.02	1.54	56.2	<0.2	<10	50	0.94	0.32	0.07	0.11	61.2	22.9	21
JNL013 01+50E		0.55	0.0090	0.10	1.55	118.5	<0.2	<10	50	0.58	0.36	0.11	0.10	33.9	10.7	20
JNL013 02+00E		0.56	0.0029	0.08	1.47	55.2	<0.2	<10	30	0.43	0.38	0.03	0.07	41.0	10.0	19
JNL013 02+50E		0.21	0.0058	0.36	1.83	53.5	<0.2	<10	70	1.67	0.60	1.03	0.28	41.1	39.8	19
JNL013 03+00E		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL013 03+50E		0.52	0.0071	0.19	1.83	151.5	<0.2	<10	40	1.30	0.78	0.08	0.20	47.9	49.6	22
JNL013 04+00E		0.35	0.0002	0.03	0.78	4.5	<0.2	<10	10	0.10	0.07	0.04	0.04	5.65	1.3	3
JNL013 04+50E		0.33	0.0025	0.07	1.55	61.1	<0.2	<10	50	0.99	0.45	0.08	0.11	32.4	24.9	14
JNL013 05+00E		0.57	0.0035	0.13	2.55	53.9	<0.2	<10	30	1.55	0.71	0.05	0.17	65.4	54.1	31
JNL013 05+50E		0.41	0.0006	0.07	1.38	13.8	<0.2	<10	20	0.34	0.45	0.03	0.07	26.9	6.0	18
JNL013 06+00E		0.40	0.0047	0.05	1.56	40.3	<0.2	<10	40	0.28	0.56	0.02	0.10	32.5	7.0	20
JNL013 06+50E		0.45	0.0021	0.20	1.89	35.6	<0.2	<10	50	0.97	0.56	0.07	0.14	31.0	11.8	22
JNL013 07+00E		0.57	0.0038	0.10	2.25	67.4	<0.2	<10	50	0.84	0.69	0.05	0.20	56.1	23.3	29
JNL013 07+50E		0.56	0.0026	0.07	2.08	56.5	<0.2	<10	30	0.43	0.49	0.05	0.19	45.4	14.8	27
JNL013 08+00E		0.60	0.0009	0.16	1.70	15.4	<0.2	<10	30	0.26	0.48	0.03	0.08	29.4	6.8	26
JNL013 08+50E		0.65	0.0020	0.07	2.41	28.1	<0.2	<10	30	0.58	0.50	0.06	0.13	37.7	20.0	32
JNL013 09+00E		0.57	0.0012	0.06	2.46	24.5	<0.2	<10	30	0.41	0.41	0.03	0.14	34.2	14.2	32
JNL013 09+50E		0.48	0.0006	0.12	2.07	201	<0.2	<10	30	0.27	0.64	0.03	0.07	37.4	10.7	37
JNL013 10+00E		0.44	0.0010	0.08	1.33	56.9	<0.2	<10	40	0.31	0.66	0.09	0.07	26.8	8.2	21
JNL013 10+50E		0.47	0.0007	0.07	1.08	80.8	<0.2	<10	30	0.11	0.61	0.03	0.04	28.9	4.7	18
JNL013 11+00E		0.47	0.0086	0.22	2.52	180.5	<0.2	<10	30	0.38	0.69	0.02	0.09	24.8	7.9	34
JNL013 11+50E		0.44	0.0024	0.64	1.58	201	<0.2	<10	30	0.24	1.50	0.02	0.17	25.0	11.4	26
JNL013 12+00E		0.49	0.0048	0.22	1.39	485	<0.2	<10	30	0.19	2.00	0.02	0.11	31.6	8.7	25
JNL013 12+50E		0.47	0.0016	0.10	1.98	64.9	<0.2	<10	30	0.36	0.60	0.02	0.08	32.0	8.6	33
JNL013 13+00E		0.56	0.0219	0.19	1.65	199.0	<0.2	<10	30	0.27	1.04	0.05	0.15	33.6	14.1	33
JNL013 13+50E		0.47	0.0077	0.23	3.27	126.5	<0.2	<10	40	0.81	0.64	0.05	0.32	34.9	14.5	30
JNL013 14+00E		0.43	0.0039	0.12	1.76	73.5	<0.2	<10	40	0.69	0.42	0.07	0.16	41.1	14.4	24
JNL013 14+50E		0.55	0.0027	0.19	1.69	82.4	<0.2	<10	30	0.47	0.40	0.03	0.55	30.1	14.9	24
JNL013 15+00E		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL013 15+50E		0.53	0.0031	0.13	1.81	48.9	<0.2	<10	30	0.74	0.46	0.10	0.22	47.2	26.1	29
JNL013 16+00E		0.41	0.0031	0.17	1.31	53.0	<0.2	<10	40	0.71	0.44	0.14	0.21	47.7	20.7	21
JNL013 16+50E		0.50	0.0046	0.16	0.74	45.8	<0.2	<10	30	0.47	0.35	0.21	0.19	51.9	13.6	16
JNL013 17+00E		0.42	0.0053	0.12	0.62	34.7	<0.2	<10	30	0.48	0.35	0.21	0.23	50.8	15.6	15

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

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
JKJNS001		0.66	26.8	3.95	0.76	0.05	0.02	0.08	0.028	0.03	17.2	2.3	0.17	1220	0.57	0.01
JKJNS002		4.04	47.2	3.77	4.51	0.05	0.07	0.06	0.053	0.06	21.6	23.4	0.28	458	0.89	0.01
JKJNS003		2.82	30.6	3.22	2.37	0.06	0.05	0.05	0.024	0.04	24.1	18.2	0.29	1700	0.47	0.01
JKVFS001		3.28	32.2	3.79	3.70	<0.05	<0.02	0.04	0.034	0.04	15.7	32.5	0.31	498	0.92	0.01
JKVFS002		2.03	34.8	3.31	3.10	0.06	0.08	0.04	0.037	0.05	17.5	25.3	0.37	715	0.71	0.01
JNL013 00+00		1.76	24.3	4.04	6.62	0.07	0.25	0.04	0.037	0.04	23.2	69.5	0.79	259	1.88	0.01
JNL013 00+50E		3.62	36.4	9.08	2.72	0.11	0.08	0.08	0.036	0.05	39.7	10.1	0.17	5290	0.61	0.01
JNL013 01+00E		3.57	50.5	3.73	5.34	0.07	0.03	0.03	0.042	0.08	19.4	27.8	0.36	603	0.44	0.01
JNL013 01+50E		3.30	34.7	2.66	5.60	0.05	0.04	0.04	0.037	0.06	14.0	20.1	0.29	458	0.48	0.02
JNL013 02+00E		2.87	30.6	3.24	5.81	<0.05	0.02	0.02	0.037	0.07	14.0	17.7	0.28	304	0.60	0.01
JNL013 02+50E		6.61	133.0	3.44	4.98	0.10	0.17	0.08	0.054	0.08	41.7	32.5	0.50	669	0.76	0.02
JNL013 03+00E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL013 03+50E		4.45	101.0	5.04	5.43	0.08	0.04	0.04	0.067	0.07	25.0	40.8	0.56	865	0.90	0.01
JNL013 04+00E		0.64	7.6	0.56	2.29	<0.05	0.05	0.03	0.008	0.02	2.9	1.5	0.03	67	0.24	0.03
JNL013 04+50E		3.27	47.4	2.80	4.27	<0.05	0.04	0.03	0.039	0.05	17.2	25.4	0.32	537	0.51	0.02
JNL013 05+00E		3.38	112.5	6.06	6.33	0.08	0.08	0.02	0.041	0.05	34.6	70.4	0.87	788	0.87	0.01
JNL013 05+50E		2.58	30.0	3.12	4.97	<0.05	0.05	0.05	0.017	0.03	16.1	25.9	0.34	207	0.72	0.01
JNL013 06+00E		2.11	23.4	3.84	6.54	0.05	<0.02	0.04	0.032	0.04	18.5	33.1	0.41	212	0.77	0.01
JNL013 06+50E		3.07	52.9	3.55	5.25	0.06	0.07	0.05	0.034	0.05	18.5	40.9	0.54	296	0.61	0.01
JNL013 07+00E		1.91	64.4	4.87	6.02	0.09	0.06	<0.01	0.042	0.06	31.9	65.9	0.81	483	0.61	0.01
JNL013 07+50E		1.24	36.7	4.33	6.33	0.07	0.06	0.02	0.034	0.04	24.5	59.2	0.72	338	0.40	0.01
JNL013 08+00E		1.94	22.5	3.98	7.42	0.05	0.03	0.01	0.023	0.04	16.7	42.4	0.54	246	0.88	0.01
JNL013 08+50E		2.05	46.6	4.62	6.92	0.08	0.09	0.01	0.030	0.05	20.7	73.8	0.90	463	0.58	0.01
JNL013 09+00E		1.74	31.7	4.52	6.53	0.07	0.10	<0.01	0.032	0.05	18.9	71.6	0.88	405	0.44	0.01
JNL013 09+50E		2.00	19.9	5.52	7.94	0.06	<0.02	0.03	0.030	0.05	20.5	46.1	0.69	457	0.97	0.01
JNL013 10+00E		5.18	31.3	3.21	6.34	<0.05	0.02	0.03	0.026	0.05	14.9	23.9	0.30	291	2.94	0.01
JNL013 10+50E		2.58	14.2	2.94	7.12	0.05	<0.02	0.01	0.018	0.03	16.6	16.6	0.25	172	1.39	0.01
JNL013 11+00E		2.29	31.3	6.63	7.15	<0.05	0.13	0.05	0.041	0.03	13.3	24.5	0.32	308	1.01	0.01
JNL013 11+50E		4.15	35.8	6.08	8.28	<0.05	<0.02	0.04	0.127	0.04	13.8	19.3	0.30	763	0.99	0.01
JNL013 12+00E		2.96	34.4	7.03	10.85	0.06	<0.02	0.02	0.043	0.04	17.6	18.5	0.30	207	1.86	0.01
JNL013 12+50E		7.56	26.7	6.37	8.59	0.07	<0.02	0.03	0.032	0.06	18.6	31.5	0.54	588	0.67	0.01
JNL013 13+00E		3.68	35.5	7.28	7.29	0.06	<0.02	0.02	0.073	0.04	17.8	28.5	0.46	520	1.11	0.01
JNL013 13+50E		3.68	27.2	5.82	4.40	0.06	0.19	0.08	0.074	0.03	16.0	34.4	0.48	1900	1.06	0.01
JNL013 14+00E		1.59	41.4	4.47	5.11	0.06	0.03	<0.01	0.046	0.05	24.0	47.3	0.67	329	0.52	0.01
JNL013 14+50E		1.38	33.8	4.64	4.81	0.05	0.05	<0.01	0.073	0.05	16.2	39.3	0.61	515	0.55	0.01
JNL013 15+00E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL013 15+50E		1.63	46.5	4.74	5.55	0.08	0.04	<0.01	0.040	0.06	26.6	55.8	0.75	685	0.54	0.01
JNL013 16+00E		1.55	41.7	4.30	4.00	0.06	0.05	<0.01	0.039	0.05	26.4	31.9	0.45	682	0.51	0.01
JNL013 16+50E		0.88	37.6	3.80	2.52	0.07	0.03	<0.01	0.031	0.03	28.6	15.4	0.20	314	0.40	0.01
JNL013 17+00E		0.76	35.2	3.74	2.10	0.08	0.04	0.01	0.029	0.03	26.9	12.2	0.17	433	0.41	0.01

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CERTIFICATE OF ANALYSIS WH12179309

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JKJNS001		<0.05	43.4	680	31.6	1.5	<0.001	0.14	4.23	2.7	1.0	0.3	249	<0.01	0.06	6.1
JKJNS002		0.40	36.1	1180	55.2	11.4	<0.001	0.10	1.78	1.9	1.2	0.8	49.3	<0.01	0.06	3.6
JKJNS003		0.13	83.5	630	34.7	5.5	<0.001	0.07	1.24	1.8	1.3	0.6	31.9	<0.01	0.02	6.3
JKVFS001		0.19	31.1	670	59.6	6.5	<0.001	0.03	1.47	0.9	0.9	3.3	29.0	<0.01	0.04	1.5
JKVFS002		0.14	32.9	930	63.5	5.0	<0.001	0.08	1.87	2.7	1.6	0.6	63.0	<0.01	0.04	5.4
JNL013 00+00		0.39	34.0	440	35.9	6.0	<0.001	0.04	0.96	2.2	1.1	0.5	30.1	<0.01	0.04	6.6
JNL013 00+50E		0.14	129.0	850	31.8	6.6	0.001	0.08	3.55	3.5	1.9	0.7	92.3	<0.01	0.03	6.9
JNL013 01+00E		0.27	37.0	900	12.4	10.3	0.001	0.05	1.32	1.7	0.7	1.8	23.7	<0.01	0.03	7.0
JNL013 01+50E		0.34	20.7	730	13.3	9.6	0.001	0.06	0.77	1.7	0.7	1.8	20.8	<0.01	0.03	3.4
JNL013 02+00E		0.27	19.7	860	15.6	9.3	<0.001	0.05	1.00	0.6	0.8	1.8	11.1	<0.01	0.03	1.3
JNL013 02+50E		0.46	54.3	1110	71.0	14.2	0.001	0.13	2.61	2.8	2.1	0.6	63.9	<0.01	0.04	6.0
JNL013 03+00E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL013 03+50E		0.23	54.7	850	56.7	9.7	<0.001	0.04	3.02	2.6	1.0	1.8	21.6	<0.01	0.04	10.7
JNL013 04+00E		0.28	2.1	500	3.3	2.4	<0.001	0.04	0.18	0.2	0.2	0.2	5.7	0.01	<0.01	0.2
JNL013 04+50E		0.37	35.4	770	27.9	7.5	<0.001	0.05	1.16	1.3	0.9	0.7	16.4	<0.01	0.02	4.2
JNL013 05+00E		0.20	84.5	750	71.2	5.6	<0.001	0.04	3.74	2.3	1.3	0.4	13.9	<0.01	0.06	14.8
JNL013 05+50E		0.27	17.8	1080	25.2	5.5	<0.001	0.06	1.07	0.5	0.3	0.4	9.5	<0.01	0.03	1.4
JNL013 06+00E		0.51	21.4	640	26.7	7.5	<0.001	0.04	1.17	0.9	0.5	0.5	20.7	<0.01	0.05	1.7
JNL013 06+50E		0.37	31.4	750	48.2	7.9	0.001	0.05	1.35	1.2	0.5	0.4	19.8	<0.01	0.04	3.1
JNL013 07+00E		0.26	48.1	460	84.0	6.2	<0.001	0.02	1.69	2.0	1.0	0.4	18.7	<0.01	0.04	10.4
JNL013 07+50E		0.38	36.8	540	48.7	6.6	<0.001	0.02	1.21	1.5	0.4	0.4	11.2	<0.01	0.03	6.3
JNL013 08+00E		0.46	23.5	670	23.4	8.4	<0.001	0.04	0.81	0.9	0.4	0.5	13.9	<0.01	0.04	2.0
JNL013 08+50E		0.50	43.2	520	54.2	6.5	<0.001	0.02	1.14	1.7	0.5	0.3	18.7	<0.01	0.05	7.3
JNL013 09+00E		0.53	38.6	370	41.8	6.8	<0.001	0.02	0.91	1.7	0.6	0.3	9.7	<0.01	0.03	7.1
JNL013 09+50E		1.41	32.1	570	27.3	10.4	0.001	0.03	0.91	1.1	0.4	0.7	7.7	0.01	0.06	1.4
JNL013 10+00E		0.63	19.7	850	26.3	11.5	<0.001	0.04	1.28	0.7	0.5	0.7	15.8	<0.01	0.07	1.2
JNL013 10+50E		0.57	14.2	580	12.2	7.3	<0.001	0.05	0.99	0.3	0.4	0.8	7.4	<0.01	0.05	0.4
JNL013 11+00E		1.62	19.1	1120	54.8	4.9	<0.001	0.07	1.37	1.1	1.2	0.6	6.2	0.02	0.06	2.9
JNL013 11+50E		0.87	21.3	1180	133.0	7.2	<0.001	0.06	2.61	0.6	0.6	0.9	9.0	<0.01	0.07	0.4
JNL013 12+00E		1.34	22.4	620	47.1	6.2	0.001	0.04	4.05	0.9	0.6	1.1	6.8	0.01	0.08	1.2
JNL013 12+50E		0.83	25.0	800	30.7	8.0	<0.001	0.04	1.23	1.0	0.4	0.6	7.3	0.01	0.04	1.2
JNL013 13+00E		1.06	32.4	1600	100.0	5.5	<0.001	0.05	3.82	0.9	0.9	0.6	8.9	0.01	0.09	1.1
JNL013 13+50E		1.02	31.1	1190	90.5	5.1	<0.001	0.06	2.44	2.3	1.6	0.4	9.2	0.02	0.04	6.4
JNL013 14+00E		0.33	34.2	500	64.5	6.2	<0.001	0.02	1.44	1.8	0.5	0.4	13.4	<0.01	0.03	8.7
JNL013 14+50E		0.27	34.2	620	78.6	7.3	<0.001	0.04	1.49	1.3	<0.2	0.4	9.6	<0.01	0.02	5.4
JNL013 15+00E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL013 15+50E		0.33	42.6	550	51.7	6.5	0.001	0.02	1.33	2.2	0.6	0.5	15.7	<0.01	0.03	9.6
JNL013 16+00E		0.23	36.1	600	50.1	7.2	<0.001	0.03	1.45	2.0	0.6	0.5	18.1	<0.01	0.05	8.1
JNL013 16+50E		0.12	32.4	530	36.3	4.3	<0.001	0.02	1.53	1.9	0.8	0.3	20.4	<0.01	0.02	8.5
JNL013 17+00E		0.10	36.6	550	33.8	3.6	<0.001	0.02	1.60	1.9	0.6	0.3	18.4	<0.01	0.02	9.3

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JKJNS001		<0.005	0.20	2.34	8	0.45	9.49	123	1.5	
JKJNS002		0.008	0.23	3.08	17	0.36	13.15	122	2.1	
JKJNS003		<0.005	0.13	1.98	11	0.18	12.35	222	1.3	
JKVFS001		0.008	0.08	4.75	16	0.11	7.07	106	<0.5	
JKVFS002		<0.005	0.04	4.43	10	0.06	13.90	102	2.5	
JNL013 00+00		0.006	0.06	4.86	19	0.09	10.95	98	5.9	
JNL013 00+50E		<0.005	1.25	2.64	13	0.38	22.2	194	2.2	
JNL013 01+00E		0.015	0.17	1.58	22	<0.05	8.58	53	0.8	
JNL013 01+50E		0.015	0.16	1.21	23	0.06	6.19	40	0.8	
JNL013 02+00E		0.012	0.15	1.20	23	0.06	4.62	39	0.7	
JNL013 02+50E		0.009	0.26	6.33	17	0.08	30.4	97	4.4	
JNL013 03+00E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
JNL013 03+50E		0.009	0.16	4.15	18	0.08	14.95	108	1.1	
JNL013 04+00E		0.017	0.02	0.44	8	0.06	1.09	8	1.5	
JNL013 04+50E		0.010	0.12	2.15	14	0.10	8.24	66	1.3	
JNL013 05+00E		0.007	0.10	2.76	20	0.08	7.99	141	2.7	
JNL013 05+50E		0.009	0.05	1.02	17	0.07	2.52	47	1.1	
JNL013 06+00E		0.015	0.09	0.70	28	0.22	2.60	71	<0.5	
JNL013 06+50E		0.010	0.08	1.29	19	0.11	7.18	84	1.6	
JNL013 07+00E		0.010	0.09	1.35	20	0.12	5.66	113	1.7	
JNL013 07+50E		0.010	0.09	0.80	20	0.12	3.73	85	1.5	
JNL013 08+00E		0.012	0.06	0.67	27	0.12	2.50	62	0.7	
JNL013 08+50E		0.016	0.05	0.89	22	0.09	4.51	100	2.0	
JNL013 09+00E		0.016	0.06	0.66	20	0.09	3.49	96	2.3	
JNL013 09+50E		0.041	0.06	0.81	31	0.16	2.96	71	<0.5	
JNL013 10+00E		0.016	0.12	1.10	28	0.16	2.95	62	0.5	
JNL013 10+50E		0.018	0.06	0.58	30	0.12	1.83	42	<0.5	
JNL013 11+00E		0.024	0.07	1.07	23	0.12	2.96	49	3.9	
JNL013 11+50E		0.018	0.10	0.74	32	0.16	2.62	104	<0.5	
JNL013 12+00E		0.039	0.13	0.83	60	0.20	2.43	80	<0.5	
JNL013 12+50E		0.024	0.07	0.77	31	0.14	2.69	75	<0.5	
JNL013 13+00E		0.030	0.08	0.93	36	0.22	3.30	98	<0.5	
JNL013 13+50E		0.016	0.11	1.50	17	0.24	5.53	114	4.9	
JNL013 14+00E		0.011	0.10	1.42	18	0.06	7.08	95	0.9	
JNL013 14+50E		0.009	0.08	1.12	17	0.08	4.24	116	1.0	
JNL013 15+00E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
JNL013 15+50E		0.012	0.10	1.44	20	0.07	7.39	112	1.0	
JNL013 16+00E		0.006	0.18	1.64	16	0.15	9.37	107	1.2	
JNL013 16+50E		<0.005	0.15	1.68	12	0.21	9.52	100	0.8	
JNL013 17+00E		<0.005	0.15	1.66	12	0.24	9.35	102	1.0	

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL013 17+50E		0.48	0.0042	0.35	1.45	464	<0.2	<10	50	0.71	8.18	0.32	0.24	37.5	12.1	19
JNL013 18+00E		0.50	0.0025	0.13	1.77	245	<0.2	<10	60	0.79	1.86	0.76	0.29	26.4	12.5	27
JNL013 18+50E		0.46	0.0040	0.11	1.07	127.0	<0.2	<10	60	0.52	1.07	0.16	0.44	39.9	8.8	15
JNL013 19+00E		0.34	0.0010	0.08	1.17	54.5	<0.2	<10	70	0.38	0.58	0.02	0.23	27.7	6.2	15
JNL013 19+50E		0.49	0.0038	0.13	0.98	52.7	<0.2	<10	50	0.61	0.47	0.17	0.22	45.2	6.6	14
JNL013 20+00E		0.45	0.0022	0.15	1.80	109.5	<0.2	<10	110	1.03	0.98	0.37	0.62	83.9	12.2	19
JNL014 00+00		0.41	0.0011	0.08	1.06	19.4	<0.2	<10	90	0.93	0.30	2.15	0.10	59.6	8.9	11
JNL014 00+50W		0.42	0.0035	0.06	0.65	27.8	<0.2	<10	80	1.40	0.22	7.64	0.12	51.7	12.9	8
JNL014 01+00W		0.36	0.0005	0.04	0.69	7.0	<0.2	<10	100	0.95	0.11	7.31	0.09	47.2	9.5	7
JNL014 01+50W		0.35	0.0002	0.03	0.66	5.3	<0.2	<10	100	0.84	0.09	7.35	0.10	50.2	8.5	7
JNL014 02+00W		0.38	0.0002	0.04	0.60	4.9	<0.2	<10	90	0.94	0.09	9.05	0.11	48.6	8.3	6
JNL014 02+50W		0.32	0.0004	0.06	0.58	7.1	<0.2	<10	90	0.90	0.11	1.38	0.22	63.3	6.5	7
JNL014 03+00W		0.38	0.0005	0.05	0.75	10.5	<0.2	<10	120	1.02	0.14	1.67	0.15	62.7	8.2	8
JNL014 03+50W		0.31	0.0006	0.07	0.62	13.1	<0.2	<10	270	1.15	0.14	2.32	0.20	56.5	9.3	7
JNL014 04+00W		0.39	0.0003	0.03	0.49	4	<0.2	<10	100	0.79	0.08	11.55	0.07	40.9	8.3	4
JNL014 04+50W		0.32	0.0004	0.05	0.65	6.7	<0.2	<10	110	0.98	0.13	1.78	0.09	53.4	7.0	7
JNL014 05+00W		0.40	0.0013	0.06	0.79	8.0	<0.2	<10	130	0.99	0.13	1.15	0.16	59.3	7.6	8
JNL014 05+50W		0.30	0.0007	0.07	0.79	6.4	<0.2	<10	120	1.04	0.11	1.51	0.14	56.0	6.7	8
JNL014 06+00W		0.33	0.0008	0.10	0.79	10.4	<0.2	<10	130	0.95	0.12	1.51	0.18	47.8	7.5	9
JNL014 06+50W		0.54	0.0008	0.13	1.21	8.4	<0.2	<10	140	0.92	0.13	2.10	0.30	57.3	7.3	15
JNL014 07+00W		0.27	0.0006	0.06	1.12	5.5	<0.2	<10	150	0.80	0.12	0.95	0.07	57.0	5.2	13
JNL014 07+50W		0.34	0.0004	0.07	1.18	4.9	<0.2	<10	170	0.82	0.13	1.58	0.08	60.3	6.7	13
JNL014 08+00W		0.31	0.0005	0.04	1.13	6.3	<0.2	<10	130	1.04	0.11	1.39	0.11	65.3	8.8	14
JNL014 08+50W		0.44	0.0009	0.06	0.65	10.5	<0.2	<10	130	0.91	0.10	6.64	0.14	51.1	8.9	7
JNL014 09+00W		0.27	0.0007	0.20	1.30	5.3	<0.2	<10	100	1.00	0.12	1.09	0.66	92.0	7.3	12
JNL014 09+50W		0.20	0.0007	0.35	1.01	4.8	<0.2	<10	130	0.74	0.09	2.36	1.28	33.2	3.7	8
JNL014 10+00W		0.24	0.0007	0.39	0.87	7.5	<0.2	<10	100	0.69	0.09	2.43	1.02	36.9	5.7	10
JNL014 10+50W		0.27	0.0021	0.55	0.50	14.3	<0.2	<10	110	0.72	0.10	2.85	1.54	39.8	8.9	8
JNL014 11+00W		0.43	0.0008	0.17	0.90	10.7	<0.2	<10	120	0.77	0.20	3.18	0.16	46.2	11.7	11
JNL014 11+50W		0.31	0.0004	0.09	1.06	8.9	<0.2	<10	110	0.52	0.19	1.33	0.11	29.1	6.0	9
JNL014 12+00W		0.56	0.0014	0.15	1.29	24.1	<0.2	<10	140	0.87	0.46	1.71	0.08	53.9	14.7	14
JNL014 12+50W		0.50	0.0008	0.10	0.87	13.5	<0.2	<10	110	0.65	0.23	8.94	0.09	42.9	8.7	10
JNL014 13+00W		0.43	0.0008	0.30	0.97	14.9	<0.2	<10	100	0.70	0.23	9.16	0.35	39.3	8.7	11
JNL014 13+50W		0.49	0.0010	0.40	0.86	16.8	<0.2	<10	150	0.76	0.22	8.04	0.52	44.0	10.7	11
JNL014 14+00W		0.39	0.0010	0.85	0.63	19.5	<0.2	<10	120	0.79	0.18	4.06	1.38	41.0	11.2	12
JNL014 14+50W		0.34	0.0006	0.22	1.31	12.8	<0.2	<10	170	0.92	0.25	1.69	0.26	68.2	8.5	15
JNL014 15+00W		0.32	0.0005	0.19	1.23	5.3	<0.2	<10	130	0.73	0.14	1.12	0.21	27.9	3.5	10
JNL014 15+50W		0.33	0.0010	0.90	1.06	13.7	<0.2	<10	150	0.80	0.13	1.55	1.26	40.3	6.7	15
JNL014 16+00W		0.35	0.0009	1.00	1.35	14.6	<0.2	<10	140	0.86	0.16	0.71	1.30	47.8	8.0	18
JNL014 16+50W		0.37	0.0004	0.15	1.65	7.0	<0.2	<10	140	1.00	0.18	0.61	0.37	52.0	6.2	19

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CERTIFICATE OF ANALYSIS WH12179309

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
JNL013 17+50E		4.44	56.9	3.91	5.82	0.05	<0.02	0.03	0.381	0.06	14.9	29.4	0.48	384	0.74	0.01
JNL013 18+00E		8.79	33.3	4.43	7.02	<0.05	0.02	0.04	0.046	0.09	14.1	42.9	0.46	388	0.65	0.01
JNL013 18+50E		1.23	18.6	3.00	3.61	<0.05	0.05	0.03	0.044	0.06	18.4	18.5	0.46	374	0.56	<0.01
JNL013 19+00E		1.27	9.6	2.15	4.47	<0.05	0.05	0.04	0.032	0.07	13.3	14.6	0.55	437	1.06	0.01
JNL013 19+50E		0.92	15.4	2.40	3.02	<0.05	0.03	0.03	0.035	0.06	19.4	14.7	0.39	262	0.50	<0.01
JNL013 20+00E		1.19	22.5	3.12	4.17	0.08	0.07	0.04	0.058	0.07	34.9	27.1	0.65	931	0.59	0.01
JNL014 00+00		0.54	13.4	2.28	2.80	0.08	0.13	0.04	0.034	0.09	28.7	12.0	0.61	433	0.54	0.01
JNL014 00+50W		0.47	16.2	2.58	1.63	0.06	0.14	0.03	0.033	0.08	22.6	5.2	0.37	617	1.12	0.01
JNL014 01+00W		0.46	12.7	2.10	1.77	0.06	0.08	0.03	0.025	0.09	23.3	8.9	0.63	609	0.38	0.01
JNL014 01+50W		0.32	11.9	2.06	1.60	0.06	0.07	0.03	0.026	0.09	24.3	8.0	0.52	780	0.36	0.01
JNL014 02+00W		0.30	11.9	1.94	1.46	0.06	0.08	0.02	0.026	0.07	24.2	6.7	0.40	836	0.36	0.01
JNL014 02+50W		0.19	10.8	1.90	1.50	0.05	0.09	0.04	0.028	0.06	30.4	6.4	0.22	412	0.32	0.01
JNL014 03+00W		0.19	14.1	2.17	1.74	0.07	0.17	0.02	0.027	0.08	30.5	7.0	0.36	295	0.47	0.01
JNL014 03+50W		0.21	14.6	2.15	1.55	0.05	0.14	0.03	0.030	0.06	24.2	4.8	0.31	346	0.57	0.01
JNL014 04+00W		0.27	11.0	1.81	1.01	<0.05	0.08	0.03	0.023	0.06	20.6	3.2	0.50	1350	0.34	0.01
JNL014 04+50W		0.25	10.6	2.34	1.51	0.06	0.13	0.02	0.033	0.07	29.5	6.3	0.25	536	0.44	0.01
JNL014 05+00W		0.22	10.7	2.49	1.86	0.07	0.15	0.03	0.036	0.07	29.3	7.4	0.28	411	0.37	0.01
JNL014 05+50W		0.18	11.0	2.24	1.99	0.06	0.11	0.04	0.032	0.06	30.2	7.1	0.23	517	0.39	0.01
JNL014 06+00W		0.28	12.5	2.48	1.93	0.07	0.10	0.03	0.034	0.06	27.6	7.5	0.31	578	0.43	0.01
JNL014 06+50W		0.39	12.5	2.27	3.62	0.06	0.11	0.03	0.032	0.08	29.0	19.1	1.02	406	0.65	0.01
JNL014 07+00W		0.39	8.5	1.88	3.48	0.07	0.13	0.03	0.027	0.06	30.1	16.6	0.75	194	0.42	0.01
JNL014 07+50W		0.47	9.0	2.14	3.62	0.07	0.09	0.04	0.030	0.07	31.6	17.0	0.94	301	0.40	0.01
JNL014 08+00W		0.26	11.4	2.38	3.50	0.07	0.18	0.02	0.034	0.10	31.2	16.2	0.93	400	0.52	0.01
JNL014 08+50W		0.35	12.6	1.94	1.69	0.05	0.15	0.01	0.026	0.08	22.7	6.6	0.47	379	0.77	0.01
JNL014 09+00W		0.57	11.2	2.29	3.11	0.07	0.10	0.04	0.040	0.07	39.7	12.7	0.61	609	0.79	0.01
JNL014 09+50W		0.29	10.5	1.47	2.48	0.06	0.15	0.06	0.025	0.05	24.2	6.4	0.33	257	0.74	0.01
JNL014 10+00W		0.36	14.5	1.72	2.26	0.06	0.13	0.06	0.022	0.07	20.8	8.7	0.51	327	1.17	0.01
JNL014 10+50W		0.41	22.7	2.01	1.33	0.06	0.19	0.05	0.023	0.06	21.6	5.0	0.37	343	1.65	0.01
JNL014 11+00W		1.00	20.7	2.58	2.45	0.06	0.09	0.03	0.026	0.10	23.1	11.7	0.70	1660	0.53	0.01
JNL014 11+50W		0.69	15.0	1.64	2.73	0.05	0.06	0.04	0.023	0.07	16.2	12.6	0.73	567	0.34	0.03
JNL014 12+00W		1.03	21.6	3.17	3.61	0.06	0.11	0.04	0.037	0.11	26.4	19.4	0.95	1000	0.61	0.01
JNL014 12+50W		0.83	16.1	2.32	2.25	0.06	0.06	0.02	0.028	0.10	21.6	11.5	0.78	1230	0.58	0.01
JNL014 13+00W		0.81	20.7	2.38	2.55	0.05	0.11	0.03	0.030	0.09	20.2	13.4	0.85	654	0.90	0.01
JNL014 13+50W		0.84	24.3	2.61	2.33	0.06	0.10	0.02	0.032	0.09	22.6	10.9	0.79	934	1.56	0.01
JNL014 14+00W		0.51	28.7	2.77	1.59	0.05	0.13	0.03	0.034	0.08	21.1	6.5	0.62	386	2.66	0.01
JNL014 14+50W		0.43	13.1	2.55	3.79	0.06	0.12	0.04	0.044	0.10	34.2	16.5	0.97	694	0.69	0.01
JNL014 15+00W		0.41	10.9	1.81	3.17	0.05	0.13	0.02	0.028	0.06	20.9	10.9	0.53	415	0.65	0.01
JNL014 15+50W		0.47	21.5	2.42	2.74	0.07	0.16	0.06	0.034	0.07	23.1	11.3	0.67	199	1.97	0.01
JNL014 16+00W		0.46	23.6	2.62	3.70	0.07	0.26	0.04	0.040	0.09	27.4	15.3	1.01	270	2.33	0.01
JNL014 16+50W		0.68	10.3	2.34	4.87	0.06	0.10	0.04	0.042	0.07	24.4	23.7	1.01	1040	0.62	<0.01

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL013 17+50E		0.63	21.5	620	44.4	15.4	<0.001	0.04	2.01	0.7	0.5	2.3	24.3	<0.01	0.06	0.7
JNL013 18+00E		1.45	25.5	610	29.9	21.1	<0.001	0.05	1.80	1.7	0.6	1.1	45.2	0.01	0.04	1.9
JNL013 18+50E		0.39	19.7	840	26.3	10.0	<0.001	0.02	1.71	1.8	0.6	0.8	14.3	<0.01	0.01	4.6
JNL013 19+00E		0.27	11.7	1120	12.1	13.7	<0.001	0.04	0.89	0.8	<0.2	1.0	5.8	<0.01	0.01	1.2
JNL013 19+50E		0.28	18.3	730	18.0	8.1	0.001	0.02	1.18	1.8	0.8	0.7	14.3	<0.01	<0.01	3.3
JNL013 20+00E		0.37	29.0	890	23.1	10.3	<0.001	0.01	1.62	4.8	1.1	1.0	31.6	<0.01	0.01	8.0
JNL014 00+00		0.23	16.3	1290	15.2	5.9	<0.001	0.06	2.31	3.0	0.7	0.4	117.0	<0.01	<0.01	2.1
JNL014 00+50W		0.11	23.7	2270	18.3	4.3	<0.001	0.04	11.10	3.6	1.3	0.3	395	<0.01	0.01	2.2
JNL014 01+00W		0.10	14.2	1510	11.5	4.6	<0.001	0.05	1.05	3.2	0.4	0.2	328	<0.01	<0.01	1.9
JNL014 01+50W		0.11	12.9	1580	11.0	4.6	<0.001	0.06	0.84	2.9	0.5	0.2	329	<0.01	<0.01	1.7
JNL014 02+00W		0.11	12.1	1470	10.2	4.2	<0.001	0.06	0.73	2.9	0.6	0.2	402	<0.01	0.01	1.7
JNL014 02+50W		0.12	12.3	1550	15.8	3.6	<0.001	0.07	1.73	1.9	0.7	0.2	81.4	<0.01	<0.01	1.0
JNL014 03+00W		0.13	16.0	1970	21.0	3.5	<0.001	0.07	2.58	2.1	0.7	0.2	92.1	<0.01	<0.01	1.8
JNL014 03+50W		0.13	16.9	1880	21.2	3.5	<0.001	0.11	2.12	2.1	1.0	0.2	125.0	<0.01	<0.01	1.6
JNL014 04+00W		0.08	11.2	1300	9.1	3.5	<0.001	0.06	0.56	2.5	0.5	0.2	529	<0.01	<0.01	1.2
JNL014 04+50W		0.11	13.1	1360	16.1	5.1	<0.001	0.08	1.22	2.5	0.8	0.2	115.5	<0.01	<0.01	1.6
JNL014 05+00W		0.14	13.7	1450	16.3	5.0	<0.001	0.05	1.34	3.8	0.7	0.3	69.9	<0.01	<0.01	2.6
JNL014 05+50W		0.18	11.9	1240	12.1	4.5	<0.001	0.08	0.94	3.2	0.8	0.2	91.1	<0.01	0.01	1.6
JNL014 06+00W		0.17	14.0	1450	14.7	4.6	<0.001	0.09	1.55	2.7	1.1	0.2	82.7	<0.01	<0.01	1.5
JNL014 06+50W		0.19	15.9	1520	13.7	6.7	<0.001	0.06	1.38	3.0	0.9	0.4	96.2	<0.01	0.01	1.9
JNL014 07+00W		0.23	12.0	1470	13.2	6.1	<0.001	0.06	1.08	2.8	1.0	0.3	53.0	<0.01	0.02	2.0
JNL014 07+50W		0.21	13.4	1250	14.3	7.3	<0.001	0.08	0.52	2.1	0.9	0.2	71.2	<0.01	<0.01	1.3
JNL014 08+00W		0.11	15.7	1360	14.7	5.6	<0.001	0.07	1.39	3.6	0.8	0.3	63.4	<0.01	0.01	2.4
JNL014 08+50W		0.16	16.4	1630	13.5	4.0	<0.001	0.06	3.34	2.9	1.0	0.3	318	<0.01	0.01	2.1
JNL014 09+00W		0.27	13.0	1570	13.7	7.4	<0.001	0.09	0.92	3.9	1.3	0.2	65.7	<0.01	0.02	1.7
JNL014 09+50W		0.36	9.6	1890	9.2	5.7	<0.001	0.17	1.03	2.0	1.0	0.2	104.0	0.01	<0.01	1.2
JNL014 10+00W		0.23	16.1	1740	10.3	4.8	<0.001	0.15	1.53	1.9	0.7	0.2	114.0	<0.01	0.01	1.1
JNL014 10+50W		0.12	22.6	1500	13.7	3.3	0.001	0.17	3.10	2.5	1.4	0.2	128.0	<0.01	0.01	1.3
JNL014 11+00W		0.13	18.8	1220	17.7	5.9	<0.001	0.06	1.76	4.4	0.8	0.3	132.5	<0.01	0.01	2.5
JNL014 11+50W		0.21	11.2	810	10.6	5.9	<0.001	0.08	0.78	2.4	0.6	0.3	73.7	<0.01	<0.01	0.7
JNL014 12+00W		0.17	24.6	1090	26.3	7.6	<0.001	0.03	2.08	5.8	0.8	0.6	81.4	<0.01	0.01	6.0
JNL014 12+50W		0.09	16.2	1130	15.6	5.2	<0.001	0.02	1.68	4.5	0.7	0.6	340	<0.01	<0.01	4.8
JNL014 13+00W		0.14	19.5	1080	15.7	5.5	<0.001	0.04	1.81	4.5	1.1	0.3	320	<0.01	<0.01	3.8
JNL014 13+50W		0.12	24.4	1340	17.6	5.1	<0.001	0.03	2.54	5.1	0.9	0.3	295	<0.01	0.01	4.1
JNL014 14+00W		0.12	31.3	1240	18.3	4.0	<0.001	0.06	4.21	4.5	1.5	0.5	162.0	<0.01	0.03	2.7
JNL014 14+50W		0.17	16.7	1410	16.4	8.9	<0.001	0.07	1.26	4.0	1.2	0.4	83.4	<0.01	0.01	2.5
JNL014 15+00W		0.33	10.5	1480	9.6	8.5	<0.001	0.09	1.04	2.9	0.8	0.3	58.6	0.01	0.03	1.4
JNL014 15+50W		0.17	24.0	1280	16.5	6.0	<0.001	0.07	2.64	4.2	1.8	0.2	78.9	<0.01	0.03	1.6
JNL014 16+00W		0.21	27.1	1310	17.7	6.2	<0.001	0.05	2.40	4.7	2.0	0.3	39.7	<0.01	0.03	2.4
JNL014 16+50W		0.46	14.5	1220	13.2	11.8	<0.001	0.05	0.98	4.4	0.6	0.4	45.2	<0.01	<0.01	2.6

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JNL013 17+50E		0.016	0.12	0.93	23	1.50	3.66	80	<0.5	
JNL013 18+00E		0.041	0.15	2.97	29	0.18	4.67	91	0.6	
JNL013 18+50E		0.008	0.13	0.59	17	0.21	4.47	81	1.2	
JNL013 19+00E		0.006	0.15	0.52	27	0.14	2.49	60	1.3	
JNL013 19+50E		0.007	0.13	0.65	14	0.24	6.78	62	0.7	
JNL013 20+00E		0.007	0.13	0.74	16	0.20	16.60	104	1.9	
JNL014 00+00		0.005	0.08	0.48	10	0.10	16.95	57	3.6	
JNL014 00+50W		<0.005	0.07	0.69	8	0.05	15.30	75	4.8	
JNL014 01+00W		<0.005	0.05	0.49	7	<0.05	11.75	58	2.2	
JNL014 01+50W		<0.005	0.05	0.41	6	<0.05	12.30	57	2.1	
JNL014 02+00W		<0.005	0.04	0.38	6	0.18	11.80	50	2.3	
JNL014 02+50W		<0.005	0.04	0.40	8	<0.05	17.25	63	2.4	
JNL014 03+00W		<0.005	0.05	0.51	9	<0.05	15.55	81	4.5	
JNL014 03+50W		<0.005	0.06	0.55	9	0.05	15.65	95	4.2	
JNL014 04+00W		<0.005	0.04	0.33	5	<0.05	10.25	39	2.0	
JNL014 04+50W		<0.005	0.05	0.51	7	0.08	16.30	55	3.5	
JNL014 05+00W		<0.005	0.05	0.41	8	<0.05	16.60	74	3.8	
JNL014 05+50W		<0.005	0.05	0.54	9	0.09	16.90	45	2.6	
JNL014 06+00W		<0.005	0.04	0.50	10	<0.05	18.00	60	2.6	
JNL014 06+50W		<0.005	0.06	0.48	17	0.07	16.00	75	2.7	
JNL014 07+00W		0.005	0.06	0.53	13	0.06	18.05	54	3.8	
JNL014 07+50W		<0.005	0.06	0.46	12	0.08	16.85	43	2.8	
JNL014 08+00W		<0.005	0.06	0.40	10	<0.05	17.40	60	4.4	
JNL014 08+50W		<0.005	0.05	0.50	8	<0.05	13.20	61	4.3	
JNL014 09+00W		0.006	0.06	0.76	17	0.08	29.4	92	2.9	
JNL014 09+50W		0.007	0.06	0.97	17	<0.05	14.20	93	4.3	
JNL014 10+00W		<0.005	0.06	0.84	21	<0.05	14.55	84	3.4	
JNL014 10+50W		<0.005	0.11	1.17	19	<0.05	17.85	114	5.2	
JNL014 11+00W		<0.005	0.07	0.33	9	0.08	12.50	61	2.5	
JNL014 11+50W		0.007	0.06	0.33	9	0.07	10.20	39	1.8	
JNL014 12+00W		<0.005	0.09	0.40	11	0.14	15.35	67	3.4	
JNL014 12+50W		<0.005	0.05	0.36	8	0.10	10.60	54	2.0	
JNL014 13+00W		<0.005	0.07	0.57	15	0.08	13.00	74	3.3	
JNL014 13+50W		<0.005	0.10	0.85	18	0.06	13.80	94	3.3	
JNL014 14+00W		<0.005	0.11	1.50	27	<0.05	16.15	160	4.3	
JNL014 14+50W		<0.005	0.09	0.56	14	0.08	17.20	63	2.9	
JNL014 15+00W		0.006	0.09	0.76	16	0.05	16.05	51	3.3	
JNL014 15+50W		<0.005	0.10	1.56	49	<0.05	19.55	140	4.9	
JNL014 16+00W		0.005	0.13	1.60	52	<0.05	20.2	163	6.8	
JNL014 16+50W		0.007	0.08	0.78	17	0.30	14.25	63	2.7	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL014 17+00W		0.41	0.0007	0.80	1.39	13.3	<0.2	<10	130	0.93	0.16	0.86	0.87	43.7	7.0	18
JNL014 17+50W		0.38	0.0007	0.66	1.68	9.9	<0.2	<10	240	0.89	0.19	0.94	0.66	43.2	6.6	21
JNL014 18+00W		0.39	0.0016	0.24	1.99	132.5	<0.2	<10	130	1.20	0.78	0.34	0.45	68.8	8.8	21
JNL014 18+50W		0.44	0.0068	0.23	1.66	220	<0.2	<10	130	0.86	3.55	0.44	1.05	54.2	8.5	18
JNL014 19+00W		0.50	0.0073	0.17	1.48	264	<0.2	<10	80	0.95	3.00	0.15	0.42	62.9	13.5	20
JNL014 19+50W		0.48	0.0026	0.16	1.63	196.0	<0.2	<10	80	0.85	1.13	0.51	0.49	49.3	11.7	21
JNL014 20+00W		0.45	0.0019	0.10	1.41	129.0	<0.2	<10	70	0.83	2.48	0.26	0.31	63.2	11.3	19
JNL015 00+00		0.43	0.0013	0.11	1.92	27.9	<0.2	<10	40	0.37	0.38	0.06	0.39	34.1	10.1	27
JNL015 00+50E		0.51	0.0018	0.13	1.73	40.2	<0.2	<10	20	0.21	0.47	0.02	0.05	32.4	9.3	26
JNL015 01+00E		0.47	0.0020	0.67	1.75	38.9	<0.2	<10	30	0.23	0.67	0.01	0.10	23.0	7.4	26
JNL015 01+50E		0.44	0.0011	0.30	1.01	27.6	<0.2	<10	10	0.15	0.35	0.01	0.04	19.50	5.7	15
JNL015 02+00E		0.48	0.0047	0.15	1.09	191.5	<0.2	<10	20	0.54	0.61	0.03	0.17	44.1	14.3	19
JNL015 02+50E		0.43	0.0019	0.55	0.43	101.0	<0.2	<10	20	0.46	10.20	0.86	0.29	36.4	18.2	11
JNL015 03+00E		0.67	0.0066	0.17	1.38	236	<0.2	<10	30	0.72	0.85	0.05	0.27	62.9	26.0	20
JNL015 03+50E		0.39	0.0013	0.21	0.79	158.5	<0.2	<10	30	0.18	1.00	0.01	0.13	24.4	10.9	16
JNL015 04+00E		0.30	0.0047	0.51	1.57	169.0	<0.2	<10	80	1.04	0.92	0.39	0.48	27.4	13.6	18
JNL015 04+50E		0.26	0.0031	0.28	0.95	109.0	<0.2	<10	50	0.59	0.61	0.08	0.25	20.7	26.0	13
JNL015 05+00E		0.61	0.0025	0.09	1.59	107.5	<0.2	<10	30	0.34	0.81	0.08	0.19	37.8	13.8	24
JNL015 05+50E		0.50	0.0027	0.14	1.22	76.1	<0.2	<10	30	0.16	0.57	0.02	0.07	28.5	4.4	23
JNL015 06+00E		0.39	0.0007	0.42	1.00	156.5	<0.2	<10	30	0.11	0.56	0.01	0.04	30.3	3.9	17
JNL015 06+50E		0.31	0.0014	0.37	1.31	26.5	<0.2	<10	50	0.29	0.73	0.03	0.10	29.2	3.9	13
JNL015 07+00E		0.26	0.0034	1.11	2.51	169.0	<0.2	<10	90	3.89	0.72	0.06	0.07	51.6	62.7	18
JNL015 07+50E		0.47	0.0030	0.19	1.93	101.5	<0.2	<10	30	0.33	0.73	0.02	0.15	27.2	16.9	31
JNL015 08+00E		0.46	0.0021	0.29	1.43	58.2	<0.2	<10	50	1.74	0.62	0.22	0.15	45.8	12.9	15
JNL015 08+50E		0.24	0.0002	0.27	0.15	0.5	<0.2	<10	10	<0.05	0.02	0.14	0.02	1.37	0.4	1
JNL015 09+00E		0.17	0.0002	0.12	0.26	1.2	<0.2	<10	20	0.07	0.02	0.68	0.04	1.89	0.6	1
JNL015 09+50E		0.17	0.0064	0.81	2.50	127.0	<0.2	<10	100	3.10	0.78	1.96	0.20	44.9	25.4	16
JNL015 10+00E		0.48	0.0050	0.25	0.80	71.5	<0.2	<10	20	0.19	0.83	0.01	0.07	29.6	8.9	13
JNL015 10+50E		0.48	0.0018	0.09	1.18	31.6	<0.2	<10	30	0.28	0.47	0.02	0.11	29.4	6.0	15
JNL015 11+00E		0.51	0.0077	0.16	1.49	60.7	<0.2	<10	40	0.46	0.72	0.04	0.15	32.8	11.6	19
JNL015 11+50E		0.53	0.0087	0.19	1.06	46.3	<0.2	<10	30	0.23	0.56	0.09	0.20	21.4	7.4	14
JNL015 12+00E		0.42	0.0017	0.10	1.36	18.7	<0.2	<10	60	0.26	0.52	0.02	0.09	39.9	5.6	16
JNL015 12+50E		0.38	0.0023	0.28	1.20	45.0	<0.2	<10	60	0.71	0.53	0.02	0.16	41.4	8.2	17
JNL015 13+00E		0.47	0.0035	0.19	1.10	39.4	<0.2	<10	30	0.44	0.43	0.04	0.21	21.7	8.5	13
JNL015 13+50E		0.34	0.0029	0.18	0.96	69.5	<0.2	<10	40	0.60	0.38	0.46	0.22	33.7	9.9	16
JNL015 14+00E		0.48	0.0031	0.08	0.63	41.4	<0.2	<10	20	0.46	0.36	0.09	0.15	40.5	14.2	15
JNL015 14+50E		0.32	0.0034	0.09	0.77	47.6	<0.2	<10	50	0.62	0.40	0.19	0.06	39.5	13.6	16
JNL015 15+00E		0.28	0.0024	0.12	1.43	188.0	<0.2	<10	60	0.61	1.02	1.50	0.33	22.1	8.1	12
JNL015 15+50E		0.41	0.0005	0.06	0.70	51.1	<0.2	<10	30	0.13	0.35	0.02	0.10	22.2	2.4	8
JNL015 16+00E		0.37	0.0017	0.11	1.01	75.4	<0.2	<10	40	0.29	0.80	0.07	0.07	15.80	4.9	13

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

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
JNL014 17+00W		0.49	20.9	2.58	3.95	0.06	0.24	0.04	0.037	0.08	27.6	17.2	1.12	360	2.16	<0.01
JNL014 17+50W		1.71	20.4	2.35	4.42	0.07	0.31	0.04	0.038	0.09	27.5	18.6	1.17	242	1.25	0.01
JNL014 18+00W		1.26	17.7	2.91	5.35	0.06	0.07	0.03	0.052	0.07	25.6	22.0	0.67	503	0.98	0.01
JNL014 18+50W		1.89	15.5	2.62	5.05	0.07	0.10	0.03	0.060	0.07	24.8	21.5	0.97	631	1.30	0.01
JNL014 19+00W		2.05	25.7	3.07	4.45	0.08	0.05	0.03	0.046	0.09	31.0	25.4	0.71	551	0.83	<0.01
JNL014 19+50W		2.16	15.9	3.52	4.66	0.05	0.04	0.02	0.060	0.07	14.8	24.0	0.71	539	1.07	0.01
JNL014 20+00W		1.86	19.4	3.12	4.27	0.07	0.07	0.01	0.052	0.08	21.9	26.0	0.61	505	0.69	<0.01
JNL015 00+00		1.94	29.3	3.82	5.99	0.06	0.09	0.02	0.029	0.03	20.1	57.5	0.71	317	0.53	0.01
JNL015 00+50E		1.04	26.1	4.31	6.22	0.05	0.05	0.03	0.019	0.02	17.9	49.0	0.65	325	0.48	<0.01
JNL015 01+00E		1.21	24.1	4.47	6.95	<0.05	0.05	0.06	0.025	0.03	12.7	35.5	0.48	235	0.66	0.01
JNL015 01+50E		1.09	13.8	2.79	4.33	<0.05	0.03	0.03	0.017	0.02	11.1	20.8	0.30	165	0.45	0.01
JNL015 02+00E		0.74	44.6	4.43	3.37	0.07	0.03	0.03	0.031	0.03	23.4	26.0	0.34	308	0.48	<0.01
JNL015 02+50E		0.75	37.7	4.08	1.48	0.06	0.04	0.08	0.039	0.02	19.5	5.9	0.16	455	0.61	0.01
JNL015 03+00E		1.03	56.5	4.95	3.80	0.08	0.04	0.03	0.036	0.05	29.8	31.7	0.39	587	0.43	0.01
JNL015 03+50E		0.95	27.0	5.11	3.96	<0.05	<0.02	0.01	0.026	0.03	12.9	7.2	0.11	210	0.62	0.01
JNL015 04+00E		3.68	57.0	4.03	4.56	0.05	0.10	0.03	0.074	0.07	15.7	18.5	0.24	374	0.86	0.01
JNL015 04+50E		1.97	34.5	2.90	3.62	<0.05	0.03	0.04	0.068	0.05	9.4	6.6	0.10	1620	0.65	0.02
JNL015 05+00E		2.02	40.1	4.85	6.05	<0.05	0.02	0.02	0.042	0.04	17.4	33.5	0.47	663	0.75	0.01
JNL015 05+50E		3.00	17.7	3.16	7.45	<0.05	<0.02	0.03	0.023	0.04	15.1	18.9	0.32	125	0.61	0.01
JNL015 06+00E		1.86	10.9	2.96	7.67	<0.05	<0.02	0.03	0.015	0.03	16.2	13.1	0.20	121	0.60	0.01
JNL015 06+50E		1.93	14.5	2.22	7.26	0.05	<0.02	0.03	0.019	0.03	16.1	12.9	0.18	106	1.03	0.01
JNL015 07+00E		5.98	111.5	3.70	4.84	0.08	0.06	0.07	0.054	0.05	38.0	29.9	0.28	1280	1.29	0.01
JNL015 07+50E		2.03	28.7	5.79	5.86	0.05	0.03	0.05	0.044	0.03	13.8	34.9	0.50	771	0.82	0.01
JNL015 08+00E		6.77	52.9	2.97	4.68	0.08	0.03	0.03	0.030	0.04	37.7	26.6	0.32	345	1.12	0.01
JNL015 08+50E		0.50	1.8	0.16	0.58	<0.05	<0.02	0.02	<0.005	0.02	1.0	0.4	0.01	13	0.16	0.04
JNL015 09+00E		0.52	4.5	0.20	0.77	<0.05	0.02	0.02	<0.005	0.02	1.2	0.4	0.02	23	0.23	0.04
JNL015 09+50E		15.60	182.0	3.28	3.84	0.13	0.12	0.09	0.050	0.05	75.8	32.9	0.26	1260	2.10	0.01
JNL015 10+00E		10.25	24.4	3.54	5.72	<0.05	<0.02	0.03	0.017	0.03	16.0	9.4	0.17	373	1.28	0.01
JNL015 10+50E		2.22	13.6	2.98	5.26	<0.05	<0.02	0.04	0.023	0.03	15.1	15.8	0.24	211	0.67	0.01
JNL015 11+00E		1.61	30.5	3.90	5.04	<0.05	0.03	0.02	0.064	0.04	15.7	22.2	0.47	715	0.74	0.01
JNL015 11+50E		1.20	18.3	2.88	4.19	<0.05	0.02	0.04	0.156	0.04	9.8	15.0	0.26	493	0.80	0.02
JNL015 12+00E		1.86	16.3	2.98	6.32	<0.05	<0.02	0.01	0.024	0.05	20.9	16.6	0.26	196	1.21	0.01
JNL015 12+50E		4.68	24.6	3.70	3.61	0.06	0.08	0.05	0.040	0.06	26.8	21.7	0.25	305	0.95	0.01
JNL015 13+00E		0.98	23.1	2.62	3.20	<0.05	0.06	0.05	0.028	0.03	10.1	17.6	0.31	318	0.67	0.01
JNL015 13+50E		2.28	23.4	3.11	2.87	0.05	0.10	0.04	0.036	0.04	19.9	22.3	0.37	231	0.47	0.01
JNL015 14+00E		0.73	27.8	3.60	2.06	0.05	0.03	0.03	0.030	0.03	20.5	13.0	0.19	444	0.40	<0.01
JNL015 14+50E		0.95	26.1	4.12	2.40	0.06	0.03	0.03	0.034	0.03	21.2	14.5	0.20	316	0.51	0.01
JNL015 15+00E		3.81	40.3	2.16	3.64	0.06	0.09	0.03	0.025	0.04	19.7	16.9	0.43	445	0.48	0.02
JNL015 15+50E		1.89	8.0	1.39	4.84	<0.05	<0.02	0.02	0.008	0.02	11.9	3.6	0.07	63	0.46	0.01
JNL015 16+00E		2.59	13.4	2.31	4.35	<0.05	<0.02	0.03	0.032	0.04	7.9	16.7	0.28	209	0.53	0.01

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL014 17+00W		0.17	25.8	1250	16.8	7.1	0.001	0.06	1.86	5.4	1.4	0.3	47.6	<0.01	0.02	2.6
JNL014 17+50W		0.30	21.5	1360	16.0	10.4	<0.001	0.09	1.36	6.2	1.9	0.3	61.9	<0.01	0.02	3.0
JNL014 18+00W		0.42	23.7	610	16.9	11.5	<0.001	0.02	1.33	3.3	0.9	1.6	27.0	<0.01	0.03	4.1
JNL014 18+50W		0.37	20.8	1360	25.9	15.6	<0.001	0.04	1.36	3.1	0.9	0.9	32.9	<0.01	0.03	2.8
JNL014 19+00W		0.56	28.8	650	29.8	10.3	<0.001	0.01	1.71	3.4	0.4	1.3	14.5	<0.01	0.02	8.6
JNL014 19+50W		0.44	21.5	1080	37.3	11.9	<0.001	0.04	1.76	1.4	0.4	1.2	34.9	0.01	0.03	1.8
JNL014 20+00W		0.44	26.1	660	26.3	13.4	<0.001	0.01	1.69	2.5	0.3	1.3	18.6	<0.01	0.02	5.9
JNL015 00+00		0.17	30.9	540	32.4	5.9	<0.001	0.02	1.12	1.3	0.2	0.4	11.7	<0.01	0.04	5.7
JNL015 00+50E		0.25	29.3	670	23.3	3.8	<0.001	0.02	1.47	1.0	0.2	0.3	5.3	<0.01	0.06	4.1
JNL015 01+00E		0.59	23.6	1040	25.3	4.3	<0.001	0.05	1.50	0.6	<0.2	0.4	5.7	<0.01	0.07	1.9
JNL015 01+50E		0.23	16.0	830	16.5	4.4	<0.001	0.03	1.16	0.3	<0.2	0.4	5.5	<0.01	0.04	0.9
JNL015 02+00E		0.21	35.9	500	37.1	3.1	<0.001	0.02	2.11	2.3	0.5	0.5	9.6	<0.01	0.03	8.6
JNL015 02+50E		0.11	43.2	650	40.2	2.3	<0.001	0.06	4.45	3.3	0.9	0.4	62.1	<0.01	0.06	7.1
JNL015 03+00E		0.23	48.4	540	54.9	3.9	<0.001	0.01	2.46	2.6	0.6	0.4	15.4	<0.01	0.05	12.7
JNL015 03+50E		0.55	26.1	550	24.2	5.0	<0.001	0.03	1.52	0.5	0.3	0.6	6.0	<0.01	0.03	0.6
JNL015 04+00E		0.45	39.5	1000	76.8	9.9	<0.001	0.06	2.03	2.0	0.5	0.9	37.1	<0.01	0.05	4.5
JNL015 04+50E		0.21	21.0	1430	135.0	9.3	<0.001	0.09	1.54	0.6	0.4	0.7	15.9	<0.01	0.05	0.5
JNL015 05+00E		0.48	34.0	690	55.0	7.9	<0.001	0.03	1.94	1.2	0.4	0.6	16.4	<0.01	0.06	3.1
JNL015 05+50E		0.50	15.4	500	20.8	7.9	<0.001	0.03	0.89	0.4	0.2	1.3	6.9	<0.01	0.06	0.3
JNL015 06+00E		0.75	11.6	440	10.9	6.7	<0.001	0.03	0.62	0.3	0.4	1.3	4.8	<0.01	0.04	0.5
JNL015 06+50E		0.84	10.3	560	24.4	5.6	<0.001	0.04	0.68	0.3	0.4	2.0	14.1	<0.01	0.05	0.2
JNL015 07+00E		0.70	38.1	1520	73.2	8.3	<0.001	0.09	1.46	1.0	1.4	0.5	13.2	<0.01	0.08	2.1
JNL015 07+50E		1.38	29.1	810	68.8	7.5	<0.001	0.04	1.77	0.9	0.3	0.4	5.7	0.01	0.07	1.8
JNL015 08+00E		0.59	23.3	730	33.2	7.7	<0.001	0.05	1.61	1.1	0.8	0.4	35.4	<0.01	0.08	2.1
JNL015 08+50E		0.18	0.7	250	1.1	0.8	<0.001	0.02	0.05	0.1	<0.2	<0.2	22.1	<0.01	0.01	<0.2
JNL015 09+00E		0.32	1.2	320	1.1	0.8	<0.001	0.05	0.11	0.1	<0.2	<0.2	77.1	<0.01	<0.01	<0.2
JNL015 09+50E		0.59	56.1	1750	89.6	6.1	<0.001	0.14	2.48	2.1	4.1	0.4	238	0.01	0.06	3.0
JNL015 10+00E		0.47	15.6	650	35.1	4.8	<0.001	0.03	2.50	0.3	<0.2	0.6	5.4	<0.01	0.04	0.4
JNL015 10+50E		0.58	13.0	500	22.5	5.2	<0.001	0.03	0.64	0.4	0.3	0.4	5.6	<0.01	0.03	0.5
JNL015 11+00E		0.29	21.0	1210	51.4	10.6	<0.001	0.04	1.32	0.6	0.5	0.4	6.9	<0.01	0.04	1.1
JNL015 11+50E		0.26	14.5	1110	48.4	6.0	<0.001	0.04	1.12	0.4	0.2	0.3	8.2	<0.01	0.04	0.6
JNL015 12+00E		1.00	12.3	360	17.9	10.0	<0.001	0.02	0.69	0.8	0.4	0.7	6.3	<0.01	0.03	1.4
JNL015 12+50E		0.29	18.9	640	36.7	11.1	<0.001	0.04	1.05	1.9	0.5	0.5	10.3	<0.01	0.03	6.9
JNL015 13+00E		0.25	17.0	810	32.0	4.8	<0.001	0.04	1.10	0.8	0.3	0.2	6.9	<0.01	0.04	1.4
JNL015 13+50E		0.20	25.0	620	33.6	6.1	<0.001	0.05	1.15	2.1	0.7	0.3	33.9	<0.01	0.03	6.4
JNL015 14+00E		0.11	24.7	470	28.2	3.1	<0.001	0.02	1.29	1.7	0.4	0.3	10.2	<0.01	0.02	10.0
JNL015 14+50E		0.13	21.9	510	37.4	5.0	<0.001	0.03	1.49	1.8	0.4	0.3	18.5	<0.01	0.04	8.9
JNL015 15+00E		0.43	14.3	1210	22.6	6.6	<0.001	0.13	1.28	1.1	0.5	0.4	78.1	0.01	0.02	1.2
JNL015 15+50E		0.25	5.3	530	8.1	5.0	<0.001	0.03	0.73	0.2	<0.2	0.7	4.7	<0.01	0.04	0.2
JNL015 16+00E		0.33	12.1	680	14.5	10.4	<0.001	0.05	0.65	0.3	0.2	1.0	8.6	<0.01	0.04	0.4

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

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Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JNL014 17+00W		<0.005	0.12	1.49	45	<0.05	22.4	125	6.0	
JNL014 17+50W		0.006	0.14	1.48	36	0.05	22.6	116	8.0	
JNL014 18+00W		0.006	0.17	0.92	39	0.11	12.55	84	2.0	
JNL014 18+50W		0.007	0.10	0.89	28	0.14	13.65	113	2.9	
JNL014 19+00W		0.013	0.16	0.89	21	0.24	10.80	85	1.2	
JNL014 19+50W		0.010	0.10	0.82	24	0.13	6.44	111	1.2	
JNL014 20+00W		0.010	0.11	1.01	17	0.23	6.41	129	2.2	
JNL015 00+00		<0.005	0.04	0.76	17	0.05	2.76	93	2.1	
JNL015 00+50E		0.005	0.03	0.66	20	<0.05	2.03	74	1.5	
JNL015 01+00E		0.006	0.04	0.81	23	0.08	2.14	63	1.4	
JNL015 01+50E		0.005	0.04	0.50	15	0.07	1.34	47	0.6	
JNL015 02+00E		0.005	0.09	1.31	15	0.21	7.08	99	0.9	
JNL015 02+50E		<0.005	0.14	2.00	11	0.36	10.50	104	1.3	
JNL015 03+00E		0.007	0.20	1.69	15	0.20	7.58	123	1.9	
JNL015 03+50E		0.009	0.10	0.77	19	0.27	2.79	76	<0.5	
JNL015 04+00E		0.007	0.30	3.16	18	0.29	8.25	130	2.3	
JNL015 04+50E		0.005	0.30	2.51	16	0.24	3.95	77	0.6	
JNL015 05+00E		0.009	0.15	1.08	23	0.18	3.44	103	0.5	
JNL015 05+50E		0.013	0.11	0.61	30	0.09	1.98	45	<0.5	
JNL015 06+00E		0.016	0.07	0.55	29	0.11	1.65	30	<0.5	
JNL015 06+50E		0.017	0.07	0.77	27	0.19	2.32	33	<0.5	
JNL015 07+00E		0.009	0.22	4.52	16	0.14	20.1	87	1.2	
JNL015 07+50E		0.021	0.07	0.83	23	0.11	2.81	81	0.8	
JNL015 08+00E		0.009	0.07	3.07	16	0.11	16.55	73	0.8	
JNL015 08+50E		0.010	<0.02	0.27	4	<0.05	0.50	2	<0.5	
JNL015 09+00E		0.011	<0.02	0.56	4	<0.05	0.70	8	0.7	
JNL015 09+50E		0.006	0.17	42.8	12	0.12	63.6	102	2.9	
JNL015 10+00E		0.009	0.08	0.75	24	0.14	2.33	54	<0.5	
JNL015 10+50E		0.011	0.07	0.66	20	0.29	2.08	41	<0.5	
JNL015 11+00E		0.006	0.10	0.84	18	0.18	4.10	68	0.8	
JNL015 11+50E		0.009	0.07	0.69	14	0.13	2.24	61	0.6	
JNL015 12+00E		0.013	0.13	0.68	27	0.33	2.52	46	<0.5	
JNL015 12+50E		0.008	0.19	2.61	15	0.24	10.45	84	1.5	
JNL015 13+00E		0.010	0.05	0.64	11	0.14	3.65	62	1.2	
JNL015 13+50E		0.007	0.12	1.75	12	0.15	8.94	88	2.3	
JNL015 14+00E		0.006	0.15	1.49	12	0.22	7.18	88	0.9	
JNL015 14+50E		0.006	0.18	1.52	13	0.24	7.25	69	0.8	
JNL015 15+00E		0.013	0.08	7.73	11	0.08	9.66	54	2.7	
JNL015 15+50E		0.012	0.11	0.56	18	0.11	1.35	22	<0.5	
JNL015 16+00E		0.013	0.10	0.58	15	0.12	1.67	41	<0.5	

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL015 16+50E		0.27	0.0011	0.12	1.34	155.0	<0.2	<10	100	0.75	0.40	1.31	0.37	43.1	7.4	13
JNL015 17+00E		0.21	0.0010	0.11	1.48	150.5	<0.2	<10	120	0.84	0.30	1.42	0.36	48.2	9.6	14
JNL015 17+50E		0.30	0.0011	0.10	1.24	73.8	<0.2	<10	70	0.64	0.92	0.25	0.20	35.2	6.9	13
JNL015 18+00E		0.31	0.0012	0.06	1.28	81.8	<0.2	<10	50	0.29	1.61	0.10	0.14	22.6	4.1	17
JNL015 18+50E		0.29	0.0008	0.11	1.56	58.0	<0.2	<10	110	0.78	0.49	1.60	0.42	35.9	6.3	14
JNL015 19+00E		0.43	0.0008	0.07	1.26	7.7	<0.2	<10	90	0.86	0.11	1.13	0.17	62.1	9.9	14
JNL015 19+50E		0.37	0.0023	0.18	1.56	199.0	<0.2	<10	100	0.79	1.49	1.14	0.24	41.2	7.4	15
JNL015 20+00E		0.35	0.0006	0.14	1.28	70.8	<0.2	<10	160	0.61	0.41	1.48	0.33	23.3	4.6	12
JNL015 20+50E		0.44	0.0003	0.08	1.25	137.5	<0.2	<10	60	0.32	0.48	0.08	0.12	30.1	4.5	15
JNL015 21+00E		0.31	0.0007	0.43	1.01	61.2	<0.2	<10	60	0.42	0.28	0.04	0.11	27.8	3.6	11
JNL015 21+50E		0.35	0.0003	0.12	1.57	28.5	<0.2	<10	150	0.70	0.25	0.34	0.14	43.4	6.6	17
JNL015 22+00E		0.36	0.0006	0.58	1.42	10.1	<0.2	<10	110	0.73	0.13	1.17	1.12	42.9	7.4	17
JNL015 22+50E		0.37	0.0013	0.57	1.29	12.9	<0.2	<10	80	0.72	0.14	1.25	0.99	48.5	10.1	17
JNL015 23+00E		0.34	0.0003	0.13	1.24	5.4	<0.2	<10	150	0.73	0.12	0.04	0.16	40.0	3.5	12
JNL015 23+50E		0.29	0.0003	0.06	1.04	4.0	<0.2	<10	130	0.37	0.10	0.31	0.08	15.35	2.8	11
JNL015 24+00E		0.37	0.0002	0.10	1.73	3.7	<0.2	<10	180	0.76	0.12	1.12	0.12	28.2	4.2	17
JNL015 24+50E		0.35	0.0004	0.19	1.66	6.3	<0.2	<10	130	0.84	0.14	1.45	0.25	42.4	9.2	15
JNL015 25+00E		0.41	0.0004	0.12	1.84	9.1	<0.2	<10	140	0.93	0.20	1.57	0.17	39.0	12.2	19
JNL016 00+00		0.55	0.0011	0.35	1.09	11.1	<0.2	<10	40	0.65	0.30	0.28	0.16	49.6	19.4	13
JNL016 00+50E		0.45	0.0006	0.11	1.24	6.7	<0.2	<10	60	0.41	0.27	0.37	0.10	25.6	6.9	11
JNL016 01+00E		0.59	0.0010	0.27	1.66	10.9	<0.2	<10	60	0.62	0.44	0.18	0.10	41.6	13.1	19
JNL016 01+50E		0.44	0.0007	0.20	1.06	5.8	<0.2	<10	60	0.35	0.24	0.14	0.05	20.3	5.9	10
JNL016 02+00E		0.55	0.0014	0.22	1.56	12.1	<0.2	<10	40	0.60	0.49	0.20	0.08	57.4	16.5	18
JNL016 02+50E		0.60	0.0013	0.27	1.50	11.7	<0.2	<10	40	0.61	0.42	0.24	0.06	46.2	15.0	16
JNL016 03+00E		0.55	0.0016	0.23	1.75	15.4	<0.2	<10	50	0.61	0.43	0.31	0.09	37.9	16.0	18
JNL016 03+50E		0.58	0.0013	0.12	1.47	9.3	<0.2	<10	50	0.54	0.31	0.09	0.07	33.2	10.7	16
JNL016 04+00E		0.53	0.0014	0.10	1.69	12.4	<0.2	<10	70	0.69	0.41	0.09	0.06	45.8	12.9	17
JNL016 04+50E		0.55	0.0040	0.15	1.46	10.8	<0.2	<10	90	0.56	0.32	0.22	0.07	37.4	8.2	14
JNL016 05+00E		0.64	0.0041	0.29	1.20	42.3	<0.2	<10	50	0.42	0.35	0.19	0.09	72.7	15.3	14
JNL016 05+50E		0.50	0.0019	0.12	1.48	28.1	<0.2	<10	70	0.54	0.41	0.05	0.08	65.5	12.8	15
JNL016 06+00E		0.53	0.0016	0.15	1.15	14.9	<0.2	<10	70	0.44	0.36	0.05	0.07	40.4	9.9	12
JNL016 06+50E		0.63	0.0015	0.08	1.49	20.3	<0.2	<10	60	0.55	0.43	0.03	0.06	54.4	10.5	14
JNL016 07+00E		0.56	0.0017	0.14	1.33	20.5	<0.2	<10	50	0.58	0.44	0.11	0.07	52.4	14.3	13
JNL016 07+50E		0.54	0.0620	1.24	0.46	458	<0.2	<10	40	0.66	0.51	0.45	0.37	35.1	20.0	5
JNL016 08+00E		0.42	0.0058	0.31	1.37	39.2	<0.2	<10	70	0.69	0.41	0.39	0.14	50.8	14.5	13
JNL016 08+50E		0.44	0.0090	0.41	1.01	51.1	<0.2	<10	50	0.66	0.41	0.36	0.11	34.6	14.5	10
JNL016 09+00E		0.51	0.0039	0.32	1.46	33.8	<0.2	<10	60	0.70	0.40	0.10	0.12	49.9	16.3	15
JNL016 09+50E		0.45	0.0012	0.13	2.04	10.2	<0.2	<10	40	0.62	0.44	0.13	0.08	22.1	21.6	24
JNL016 10+00E		0.59	0.0027	0.24	1.63	22.4	<0.2	<10	50	0.58	0.41	0.12	0.08	58.4	17.6	19
JNL016 10+50E		0.49	0.0011	0.06	1.63	13.4	<0.2	<10	60	0.59	0.42	0.12	0.08	37.0	13.8	19

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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CERTIFICATE OF ANALYSIS WH12179309

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
JNL015 16+50E		1.03	15.6	2.15	3.68	0.06	0.14	0.05	0.032	0.08	24.2	17.3	0.98	577	0.47	0.01
JNL015 17+00E		0.89	16.1	2.37	4.02	0.08	0.15	0.04	0.039	0.10	25.4	19.9	1.19	760	0.59	0.01
JNL015 17+50E		1.14	10.5	2.18	3.88	<0.05	0.08	0.03	0.048	0.06	13.8	16.7	0.44	504	0.55	0.01
JNL015 18+00E		2.66	12.5	2.05	6.03	<0.05	<0.02	0.05	0.041	0.07	11.5	13.6	0.33	161	0.61	0.01
JNL015 18+50E		1.47	14.9	2.07	4.23	0.05	0.15	0.04	0.033	0.07	19.5	18.6	0.58	283	0.46	0.02
JNL015 19+00E		0.38	12.0	2.52	3.50	0.07	0.12	0.03	0.032	0.10	26.7	15.7	1.14	557	0.53	0.01
JNL015 19+50E		2.54	20.7	2.65	4.70	0.05	0.07	0.02	0.075	0.07	18.3	18.2	0.48	433	0.53	0.01
JNL015 20+00E		1.20	12.2	1.84	3.71	<0.05	0.13	0.03	0.029	0.07	11.7	12.6	0.48	311	0.74	0.02
JNL015 20+50E		3.42	8.9	2.21	4.99	<0.05	0.03	0.02	0.023	0.06	13.3	20.9	0.85	209	1.46	0.01
JNL015 21+00E		2.23	8.0	1.54	3.39	<0.05	0.02	0.03	0.024	0.06	11.9	12.5	0.40	91	0.64	0.01
JNL015 21+50E		1.19	9.7	2.54	5.00	<0.05	0.06	0.03	0.040	0.08	14.8	22.6	0.87	367	0.78	0.01
JNL015 22+00E		0.45	23.2	2.53	3.67	0.07	0.21	0.04	0.030	0.09	25.5	17.5	1.17	138	1.50	0.01
JNL015 22+50E		0.47	23.7	2.69	3.29	0.07	0.15	0.03	0.025	0.09	25.3	15.9	1.19	289	2.21	0.01
JNL015 23+00E		0.55	7.6	1.94	3.61	<0.05	0.07	0.03	0.032	0.06	16.0	13.9	0.55	696	0.80	0.01
JNL015 23+50E		0.60	6.0	1.43	3.75	<0.05	0.05	0.02	0.018	0.07	7.5	11.8	0.50	290	0.65	0.01
JNL015 24+00E		0.45	9.2	2.14	4.47	0.06	0.15	0.04	0.027	0.09	20.0	19.2	1.25	319	0.63	0.01
JNL015 24+50E		0.64	15.5	2.35	4.37	0.07	0.16	0.03	0.032	0.09	25.0	21.2	1.42	915	0.74	0.01
JNL015 25+00E		0.92	18.8	2.58	4.87	0.07	0.19	0.03	0.028	0.11	22.0	26.9	1.77	1470	0.75	0.01
JNL016 00+00		0.70	31.9	3.59	2.96	0.08	0.07	0.03	0.030	0.03	22.3	26.7	0.36	1090	0.32	0.01
JNL016 00+50E		0.84	16.3	2.39	3.62	<0.05	0.11	0.02	0.021	0.03	11.8	19.0	0.25	533	0.42	0.02
JNL016 01+00E		1.01	26.3	3.96	4.35	0.06	0.15	0.04	0.027	0.03	21.6	32.3	0.43	655	0.43	0.01
JNL016 01+50E		0.60	16.4	2.26	2.95	<0.05	0.08	0.03	0.017	0.03	10.7	18.0	0.23	273	0.34	0.01
JNL016 02+00E		0.55	30.2	4.01	4.26	0.08	0.09	0.02	0.024	0.03	29.7	39.7	0.51	644	0.34	0.01
JNL016 02+50E		0.68	28.2	3.98	3.82	0.06	0.09	0.03	0.025	0.04	23.3	35.8	0.47	591	0.32	0.01
JNL016 03+00E		0.93	26.8	4.04	4.73	0.06	0.15	0.04	0.031	0.03	17.5	45.2	0.50	861	0.37	0.01
JNL016 03+50E		0.77	21.8	3.37	4.25	<0.05	0.10	0.02	0.024	0.03	16.2	37.3	0.43	518	0.34	0.01
JNL016 04+00E		0.89	24.6	3.72	4.24	0.07	0.08	0.02	0.024	0.03	22.4	37.1	0.48	570	0.35	0.01
JNL016 04+50E		0.84	20.3	3.09	3.72	0.05	0.09	0.02	0.028	0.04	19.3	26.8	0.37	353	0.24	0.01
JNL016 05+00E		0.82	28.6	3.60	3.39	0.07	0.05	0.03	0.035	0.06	39.4	25.8	0.41	650	0.31	0.01
JNL016 05+50E		1.04	28.4	3.80	4.06	0.07	0.07	0.02	0.025	0.05	34.8	32.0	0.41	410	0.37	0.01
JNL016 06+00E		0.96	23.8	2.83	3.38	0.05	0.05	0.03	0.018	0.04	21.4	17.3	0.26	370	0.49	0.01
JNL016 06+50E		1.07	25.6	3.18	3.94	0.06	0.09	0.02	0.018	0.04	27.6	32.0	0.39	262	0.35	0.01
JNL016 07+00E		0.97	29.3	3.42	3.60	0.07	0.07	0.03	0.023	0.05	28.1	30.0	0.38	430	0.31	0.01
JNL016 07+50E		2.89	29.0	4.68	1.05	0.05	0.13	0.03	0.029	0.05	18.2	3.6	0.06	1030	0.99	0.01
JNL016 08+00E		0.88	31.5	3.72	3.43	0.07	0.12	0.03	0.027	0.05	27.9	26.6	0.36	516	0.33	0.01
JNL016 08+50E		2.43	29.3	3.83	2.95	0.05	0.09	0.02	0.075	0.04	17.7	12.4	0.13	773	0.46	0.01
JNL016 09+00E		1.26	30.6	3.87	3.51	0.06	0.09	0.02	0.033	0.05	24.8	31.5	0.37	554	0.35	0.01
JNL016 09+50E		1.68	40.5	4.32	5.81	<0.05	0.19	0.06	0.031	0.03	11.5	67.8	0.72	1180	0.49	0.01
JNL016 10+00E		1.22	34.0	3.93	4.26	0.07	0.05	0.02	0.028	0.05	31.3	44.5	0.55	554	0.38	0.01
JNL016 10+50E		1.53	27.3	3.80	4.92	0.05	0.12	0.02	0.032	0.05	18.7	43.4	0.41	530	0.65	0.01

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

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44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
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CERTIFICATE OF ANALYSIS WH12179309

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL015 16+50E		0.26	15.0	1170	16.5	9.6	<0.001	0.09	1.28	3.1	0.5	0.6	65.9	<0.01	0.03	2.9
JNL015 17+00E		0.22	17.9	1170	17.9	8.2	<0.001	0.09	1.66	3.7	1.0	0.5	70.8	<0.01	0.02	2.9
JNL015 17+50E		0.42	12.7	1080	15.8	14.7	<0.001	0.06	0.87	1.6	<0.2	0.9	20.2	<0.01	0.03	2.0
JNL015 18+00E		0.49	13.4	1020	9.4	17.0	<0.001	0.06	1.71	0.4	0.2	2.3	22.4	<0.01	0.04	0.5
JNL015 18+50E		0.64	15.1	1330	12.6	11.5	<0.001	0.12	1.39	2.5	0.9	0.7	93.1	0.01	0.02	2.2
JNL015 19+00E		0.11	17.1	1070	15.5	7.8	<0.001	0.05	1.29	4.6	0.8	0.2	71.3	<0.01	0.02	3.2
JNL015 19+50E		0.57	18.6	960	14.8	10.6	<0.001	0.07	2.73	2.2	0.2	2.6	66.7	<0.01	0.03	3.0
JNL015 20+00E		0.41	11.4	1360	9.9	10.5	<0.001	0.10	1.16	1.6	0.2	0.8	85.0	0.01	0.01	1.6
JNL015 20+50E		0.30	11.4	680	24.8	10.3	<0.001	0.03	1.58	0.8	<0.2	0.8	9.5	<0.01	0.02	1.6
JNL015 21+00E		0.14	10.0	1060	16.9	9.6	<0.001	0.03	0.93	0.3	0.4	0.5	5.6	<0.01	0.02	0.3
JNL015 21+50E		0.35	14.4	730	30.4	12.5	<0.001	0.03	1.47	1.5	0.5	0.6	27.8	<0.01	0.04	2.9
JNL015 22+00E		0.15	23.3	1270	14.5	5.9	<0.001	0.08	1.60	4.7	1.0	0.2	56.2	<0.01	0.02	3.0
JNL015 22+50E		0.11	25.3	1230	16.3	4.2	<0.001	0.04	1.93	4.3	1.2	<0.2	57.5	<0.01	0.05	3.9
JNL015 23+00E		0.16	9.2	1300	8.1	9.6	<0.001	0.05	0.82	2.4	0.2	0.3	5.4	<0.01	0.03	1.4
JNL015 23+50E		0.18	6.3	1230	6.2	11.5	<0.001	0.07	0.56	1.0	<0.2	0.3	22.9	<0.01	0.04	0.6
JNL015 24+00E		0.18	11.8	1680	9.0	10.7	<0.001	0.10	0.61	4.5	0.5	0.2	70.5	<0.01	0.01	3.2
JNL015 24+50E		0.17	16.9	1250	15.6	7.3	<0.001	0.09	0.81	4.2	1.2	0.2	80.2	<0.01	0.02	2.3
JNL015 25+00E		0.13	19.3	1240	18.7	8.4	<0.001	0.08	0.84	4.2	1.2	0.3	89.3	<0.01	0.02	3.1
JNL016 00+00		0.13	31.7	900	40.8	2.3	<0.001	0.02	3.30	3.1	0.8	<0.2	31.0	<0.01	0.03	10.0
JNL016 00+50E		0.35	15.7	1310	22.1	5.0	<0.001	0.09	1.35	1.0	0.3	0.2	29.7	0.01	0.04	2.1
JNL016 01+00E		0.26	29.4	940	34.2	5.8	<0.001	0.06	1.94	2.0	0.5	0.2	21.4	<0.01	0.04	4.5
JNL016 01+50E		0.20	16.6	820	17.2	4.5	<0.001	0.06	1.24	1.1	0.3	<0.2	15.9	<0.01	0.02	2.1
JNL016 02+00E		0.05	35.2	520	42.6	3.0	<0.001	0.01	1.84	2.9	0.5	<0.2	27.6	<0.01	0.05	14.5
JNL016 02+50E		0.05	33.6	490	35.8	3.7	<0.001	0.02	1.96	2.9	0.6	<0.2	27.8	<0.01	0.04	13.6
JNL016 03+00E		0.11	33.3	1730	36.4	6.0	<0.001	0.05	1.86	2.1	0.5	0.2	34.6	<0.01	0.06	7.5
JNL016 03+50E		0.18	25.6	710	24.9	5.0	<0.001	0.04	1.33	1.5	0.3	0.2	10.7	<0.01	0.04	4.8
JNL016 04+00E		0.17	29.2	610	32.0	6.0	<0.001	0.03	1.41	1.8	0.6	0.2	11.2	<0.01	0.04	6.1
JNL016 04+50E		0.19	23.1	580	22.3	8.4	<0.001	0.03	1.26	2.2	0.5	0.2	21.6	<0.01	0.02	5.3
JNL016 05+00E		0.08	32.3	490	32.0	4.7	<0.001	<0.01	2.97	2.2	0.4	<0.2	19.9	<0.01	0.02	13.3
JNL016 05+50E		0.09	30.0	510	31.8	8.1	<0.001	0.01	2.56	1.5	0.5	0.2	7.2	<0.01	0.02	6.3
JNL016 06+00E		0.15	20.9	800	28.7	8.8	<0.001	0.04	1.42	0.9	<0.2	0.2	8.1	<0.01	0.02	2.5
JNL016 06+50E		0.14	26.8	410	29.1	8.2	<0.001	0.01	1.46	1.3	0.3	0.2	6.3	<0.01	0.02	5.6
JNL016 07+00E		0.05	30.8	480	30.2	7.7	<0.001	0.01	1.91	1.7	0.4	<0.2	11.4	<0.01	0.04	6.0
JNL016 07+50E		<0.05	50.7	330	55.1	3.7	<0.001	0.05	11.40	4.1	0.5	0.2	85.8	<0.01	0.02	13.8
JNL016 08+00E		0.07	33.6	430	40.9	6.6	<0.001	0.02	3.57	3.4	0.8	<0.2	29.5	<0.01	0.03	8.6
JNL016 08+50E		0.09	29.8	860	54.9	6.4	<0.001	0.02	5.17	1.8	0.4	0.3	34.5	<0.01	0.03	3.4
JNL016 09+00E		0.09	34.7	450	43.5	6.8	<0.001	0.01	3.37	2.2	0.4	<0.2	14.0	<0.01	0.02	6.6
JNL016 09+50E		0.10	39.2	980	40.5	5.5	<0.001	0.06	1.75	2.0	0.2	0.2	18.9	<0.01	0.01	7.5
JNL016 10+00E		0.12	36.2	440	52.7	4.7	0.001	<0.01	2.56	2.5	0.3	0.2	16.1	<0.01	0.01	12.2
JNL016 10+50E		0.33	28.1	740	35.9	7.7	<0.001	0.04	1.50	1.5	<0.2	0.3	16.2	<0.01	0.02	4.5

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ARQR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JNL015 16+50E		0.009	0.09	0.45	11	0.08	13.70	72	3.6	
JNL015 17+00E		0.007	0.08	0.92	11	<0.05	14.60	66	4.0	
JNL015 17+50E		0.014	0.11	0.54	15	0.14	5.29	60	2.3	
JNL015 18+00E		0.014	0.13	0.70	23	0.18	2.25	45	<0.5	
JNL015 18+50E		0.017	0.11	0.83	14	0.09	12.25	63	4.0	
JNL015 19+00E		0.005	0.07	0.45	10	<0.05	14.30	65	3.4	
JNL015 19+50E		0.012	0.11	0.78	19	0.13	8.08	52	2.1	
JNL015 20+00E		0.010	0.11	0.52	20	0.07	5.07	44	3.1	
JNL015 20+50E		0.010	0.13	0.50	26	0.08	1.82	64	0.7	
JNL015 21+00E		0.008	0.09	0.44	13	0.06	2.75	39	<0.5	
JNL015 21+50E		0.009	0.11	0.46	21	0.09	3.52	72	1.8	
JNL015 22+00E		0.006	0.09	0.95	40	<0.05	17.75	131	5.6	
JNL015 22+50E		0.006	0.09	1.02	40	<0.05	15.55	127	4.4	
JNL015 23+00E		0.007	0.09	0.47	18	<0.05	8.37	57	1.6	
JNL015 23+50E		0.007	0.08	0.38	17	<0.05	1.83	33	1.0	
JNL015 24+00E		0.007	0.09	0.63	21	<0.05	12.90	44	3.5	
JNL015 24+50E		0.007	0.07	0.43	14	0.05	17.40	62	4.0	
JNL015 25+00E		0.007	0.08	0.38	14	0.06	15.85	59	4.7	
JNL016 00+00		0.008	0.04	1.17	9	<0.05	18.05	85	3.1	
JNL016 00+50E		0.013	0.05	0.82	12	0.06	5.61	52	3.0	
JNL016 01+00E		0.008	0.07	1.60	14	0.15	16.10	76	3.6	
JNL016 01+50E		0.007	0.05	0.81	9	<0.05	8.41	46	2.0	
JNL016 02+00E		0.005	0.03	1.25	10	<0.05	15.15	91	4.5	
JNL016 02+50E		0.005	0.04	1.22	9	<0.05	14.45	83	4.2	
JNL016 03+00E		0.005	0.05	1.15	12	<0.05	13.15	81	3.8	
JNL016 03+50E		0.007	0.05	0.91	11	<0.05	7.64	64	2.6	
JNL016 04+00E		0.006	0.08	1.00	11	<0.05	8.95	74	2.2	
JNL016 04+50E		0.007	0.06	0.94	11	0.05	11.05	69	2.4	
JNL016 05+00E		0.007	0.06	1.09	8	0.05	10.25	72	2.5	
JNL016 05+50E		0.005	0.08	1.01	10	<0.05	7.11	74	2.0	
JNL016 06+00E		0.007	0.09	0.90	11	0.05	5.24	57	1.5	
JNL016 06+50E		0.005	0.08	0.90	11	<0.05	5.93	65	2.3	
JNL016 07+00E		<0.005	0.06	1.01	8	<0.05	10.05	70	2.4	
JNL016 07+50E		<0.005	0.08	1.31	6	0.09	9.04	109	6.1	
JNL016 08+00E		<0.005	0.06	1.16	8	<0.05	16.90	82	4.1	
JNL016 08+50E		<0.005	0.10	1.43	11	0.06	8.46	98	2.6	
JNL016 09+00E		<0.005	0.07	1.04	10	<0.05	10.05	82	2.6	
JNL016 09+50E		0.005	0.05	1.85	15	0.07	11.75	76	4.8	
JNL016 10+00E		0.007	0.05	1.26	13	0.06	10.30	80	2.0	
JNL016 10+50E		0.010	0.07	1.02	17	0.07	5.09	64	3.0	

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL016 11+00E		0.48	0.0021	0.71	1.58	17.0	<0.2	<10	30	0.41	0.40	0.03	0.16	37.5	12.1	18
JNL016 11+50E		0.47	0.0028	0.85	1.58	30.3	<0.2	<10	40	0.65	0.41	1.33	0.17	34.3	16.0	19
JNL016 12+00E		0.51	0.0027	0.43	1.55	18.6	<0.2	<10	50	0.72	0.37	0.29	0.17	46.3	16.4	17
JNL016 12+50E		0.51	0.0032	0.27	1.46	31.3	<0.2	<10	50	0.59	0.43	0.07	0.25	52.2	16.1	15
JNL016 13+00E		0.48	0.0021	0.19	1.89	17.1	<0.2	<10	50	0.74	0.63	0.32	0.10	58.8	28.0	22
JNL016 13+50E		0.40	0.0014	0.09	1.40	17.9	<0.2	<10	60	0.64	0.40	0.27	0.22	43.4	18.5	18
JNL016 14+00E		0.47	0.0019	0.26	1.54	30.8	<0.2	<10	50	0.59	0.50	0.10	0.23	36.8	20.4	21
JNL016 14+50E		0.47	0.0049	0.61	1.45	79.6	<0.2	<10	50	0.62	0.43	0.15	0.11	56.3	21.4	17
JNL016 15+00E		0.55	>0.1000	0.78	0.88	872	0.3	<10	80	1.14	0.58	0.24	0.45	63.6	32.7	8
JNL016 15+50E		0.49	0.0253	0.17	1.82	113.0	<0.2	<10	80	0.73	0.49	0.16	0.15	40.7	20.9	19
JNL016 16+00E		0.59	0.0079	0.10	1.77	38.5	<0.2	<10	30	0.53	0.48	0.07	0.12	48.9	21.6	20
JNL016 16+50E		0.57	0.0040	0.23	1.50	35.3	<0.2	<10	50	0.54	0.49	0.16	0.16	43.6	14.2	18
JNL016 17+00E		0.54	0.0031	0.12	0.74	30.8	<0.2	<10	40	0.45	0.52	0.19	0.06	31.8	11.3	10
JNL016 17+50E		0.46	0.0105	0.50	1.55	77.1	<0.2	<10	20	0.46	0.76	0.03	0.15	47.5	35.3	19
JNL016 18+50E		0.65	0.0316	2.03	0.21	1790	<0.2	<10	40	0.16	3.23	0.01	0.02	87.4	6.0	4

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

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
JNL016 11+00E		1.79	31.1	3.66	4.53	0.05	0.10	0.09	0.027	0.04	19.7	36.8	0.38	328	0.61	0.01
JNL016 11+50E		0.71	35.3	4.17	4.36	0.07	0.15	0.06	0.137	0.03	19.0	45.1	0.61	1440	0.32	0.01
JNL016 12+00E		0.90	30.4	3.77	4.04	0.06	0.09	0.03	0.039	0.03	23.0	39.5	0.47	1170	0.57	0.01
JNL016 12+50E		2.08	31.0	3.90	3.77	0.06	0.07	0.01	0.033	0.05	25.2	31.4	0.37	569	0.42	0.01
JNL016 13+00E		1.79	41.1	4.15	5.27	0.08	0.11	0.04	0.040	0.03	30.9	51.1	0.60	796	0.53	0.01
JNL016 13+50E		1.16	24.2	3.63	4.99	0.05	0.12	0.03	0.041	0.03	20.8	31.3	0.37	1280	0.73	0.01
JNL016 14+00E		2.05	36.7	4.10	5.52	<0.05	0.04	0.04	0.075	0.04	18.8	35.3	0.43	772	0.72	0.01
JNL016 14+50E		1.47	45.3	3.99	3.97	0.08	0.07	0.05	0.129	0.03	29.6	31.5	0.40	1100	0.51	0.01
JNL016 15+00E		4.40	50.3	6.21	2.18	0.09	0.06	0.04	0.047	0.06	33.8	13.0	0.18	1220	0.74	0.01
JNL016 15+50E		2.69	33.4	4.18	4.93	0.05	0.10	0.02	0.032	0.05	20.9	36.2	0.36	850	0.60	0.01
JNL016 16+00E		1.49	38.8	4.05	4.80	0.06	0.04	0.02	0.028	0.04	25.9	45.0	0.54	668	0.59	0.01
JNL016 16+50E		1.57	30.2	3.95	3.91	0.05	0.03	0.01	0.029	0.05	22.0	35.4	0.43	428	0.39	0.01
JNL016 17+00E		2.15	29.6	3.79	1.84	0.06	0.03	0.02	0.021	0.03	19.0	11.9	0.18	312	0.31	0.01
JNL016 17+50E		1.17	60.3	5.82	4.25	0.08	0.03	0.04	0.031	0.02	24.2	36.7	0.57	1480	0.77	0.01
JNL016 18+50E		3.43	22.7	4.47	1.20	0.09	0.08	0.01	0.287	0.12	43.5	0.6	0.01	289	0.68	0.01

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL016 11+00E		0.30	24.9	810	35.6	5.7	<0.001	0.04	2.61	0.9	0.4	0.3	10.5	<0.01	0.03	2.8
JNL016 11+50E		0.09	34.2	990	39.2	3.4	<0.001	0.05	6.75	5.0	0.7	<0.2	75.5	<0.01	0.02	8.5
JNL016 12+00E		0.14	35.5	520	67.1	5.1	<0.001	0.02	3.38	2.4	0.8	0.2	29.7	<0.01	0.02	6.1
JNL016 12+50E		0.16	33.4	530	91.0	6.8	<0.001	0.03	2.79	1.4	<0.2	0.2	17.8	<0.01	0.04	5.8
JNL016 13+00E		0.15	36.5	920	63.1	5.2	<0.001	0.04	2.07	2.5	0.8	0.2	25.8	<0.01	0.03	5.4
JNL016 13+50E		0.19	22.9	1380	64.1	4.5	<0.001	0.07	1.68	1.5	0.2	0.2	22.4	<0.01	0.02	3.1
JNL016 14+00E		0.36	28.7	1060	121.0	6.6	<0.001	0.05	2.74	0.7	<0.2	0.4	11.2	<0.01	0.05	1.5
JNL016 14+50E		0.14	36.0	670	58.1	5.4	<0.001	0.02	3.35	2.8	0.5	0.2	16.7	<0.01	0.04	6.5
JNL016 15+00E		0.05	59.4	930	89.4	5.7	0.001	0.01	11.90	5.2	1.4	0.2	22.7	<0.01	0.04	18.8
JNL016 15+50E		0.17	31.0	1100	57.5	10.1	0.001	0.03	2.61	1.5	0.4	0.3	21.8	<0.01	0.03	3.6
JNL016 16+00E		0.20	34.6	830	53.5	5.8	<0.001	0.01	1.63	1.6	0.4	0.2	10.1	<0.01	0.04	5.7
JNL016 16+50E		0.11	34.1	610	38.1	6.7	<0.001	0.01	1.25	2.0	0.2	0.3	23.7	<0.01	0.03	5.5
JNL016 17+00E		0.05	27.7	530	28.2	5.4	<0.001	0.01	2.25	2.2	<0.2	0.2	13.1	<0.01	0.02	6.7
JNL016 17+50E		<0.05	50.1	530	65.4	2.8	<0.001	0.01	5.92	2.5	0.6	<0.2	5.4	<0.01	0.04	10.9
JNL016 18+50E		<0.05	14.8	570	164.0	10.9	<0.001	0.20	9.04	3.3	0.7	2.5	15.1	<0.01	0.07	12.0

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 25- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12179309

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JNL016 11+00E		0.009	0.08	1.42	16	0.11	4.20	70	2.9	
JNL016 11+50E		0.007	0.04	1.06	10	<0.05	16.30	93	4.9	
JNL016 12+00E		0.006	0.05	1.20	12	0.05	11.00	86	3.0	
JNL016 12+50E		0.006	0.05	0.98	11	0.05	5.91	100	2.1	
JNL016 13+00E		0.007	0.05	1.42	14	0.09	15.80	100	3.1	
JNL016 13+50E		0.007	0.06	1.14	15	0.05	6.97	80	2.7	
JNL016 14+00E		0.013	0.08	1.11	20	0.10	5.30	138	0.9	
JNL016 14+50E		0.007	0.06	1.70	12	0.05	19.30	85	2.1	
JNL016 15+00E		<0.005	0.11	2.02	8	0.07	27.9	175	5.0	0.22
JNL016 15+50E		0.006	0.10	1.45	18	0.08	8.53	113	2.8	
JNL016 16+00E		0.010	0.06	1.30	16	0.09	6.29	108	1.3	
JNL016 16+50E		0.006	0.07	1.25	13	0.05	8.09	102	0.8	
JNL016 17+00E		<0.005	0.06	1.36	9	<0.05	10.30	90	1.0	
JNL016 17+50E		0.005	0.05	1.74	10	<0.05	12.65	129	1.0	
JNL016 18+50E		<0.005	0.17	0.62	5	0.42	3.53	49	6.0	

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CERTIFICATE OF ANALYSIS WH12179309

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE WH12183060

Project:

P.O. No.: JN12- 002

This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6- AUG- 2012.

The following have access to data associated with this certificate:

JESSE CAMPBELL	CHRIS GALLAGHER	

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	
Au- AROR43	Au AR Overrange - 25g	
Au- TL43	Trace Level Au - 25g AR	ICP- MS
Au- ST43	Super Trace Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

To: TERRALOGIC EXPLORATION SERVICES INC.
ATTN: CHRIS GALLAGHER
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

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.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL016 18+50E		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL016 19+00E		0.55	0.0100	0.22	1.36	197.5	<0.2	<10	40	0.51	0.52	0.05	0.12	97.1	24.7	15
JNL016 19+50E		0.60	>0.1000	1.98	0.85	5070	0.3	<10	60	1.09	0.84	0.14	2.78	109.0	59.0	7
JNL016 20+00E		0.53	0.0095	0.74	1.49	119.5	<0.2	<10	30	0.78	0.93	0.05	0.34	87.4	48.2	14
JNL016 20+50E		0.51	0.0040	0.24	1.90	17.7	<0.2	<10	20	0.52	0.51	0.09	0.08	46.5	22.6	22
JNL016 21+00E		0.53	0.0071	0.57	1.73	67.8	<0.2	<10	30	0.81	0.78	0.02	0.23	55.2	51.9	21
JNL016 21+50E		0.48	0.0045	0.26	1.44	26.9	<0.2	<10	20	0.30	0.41	0.04	0.16	23.7	13.4	15
JNL016 22+00E		0.50	0.0062	0.38	1.78	46.0	<0.2	<10	30	0.74	0.84	0.07	0.46	79.3	32.5	21
JNL016 22+50E		0.51	0.0045	0.42	1.57	78.1	<0.2	<10	20	1.22	0.52	0.01	0.10	88.3	21.2	17
JNL016 23+00E		0.56	0.0054	0.93	1.86	70.9	<0.2	<10	30	0.71	1.17	0.01	0.07	47.5	9.6	28
JNL016 23+50E		0.48	0.0028	0.20	1.81	26.5	<0.2	<10	30	0.71	0.95	0.02	0.09	51.8	29.6	22
JNL016 24+00E		0.48	0.0026	0.40	2.14	53.6	<0.2	<10	30	0.60	0.61	0.01	0.13	58.3	13.9	25
JNL016 24+50E		0.50	0.0037	0.39	1.51	57.9	<0.2	<10	40	0.99	0.83	0.05	0.21	63.2	24.7	17
JNL016 25+00E		0.51	0.0021	0.24	1.59	28.0	<0.2	<10	30	0.82	0.68	0.04	0.77	62.5	29.4	20
JNL016 25+50E		0.49	0.0049	2.38	2.27	37.4	<0.2	<10	70	1.22	0.60	2.93	3.05	49.2	33.7	24
JNL016 26+00E		0.53	0.0242	1.06	1.91	62.1	<0.2	<10	60	0.95	0.66	0.39	0.88	75.5	24.2	21
JNL016 26+50E		0.47	0.0026	0.15	2.12	27.0	<0.2	<10	30	0.74	0.69	0.02	0.26	72.8	48.5	28
JNL016 27+00E		0.53	0.0102	0.92	1.88	191.0	<0.2	<10	30	2.08	1.44	0.01	0.40	92.2	46.3	19
JNL016 27+50E		0.47	0.0027	0.10	1.82	53.8	<0.2	<10	30	0.59	0.79	0.02	0.12	76.3	18.1	23
JNL016 28+00E		0.42	0.0016	0.11	1.86	20.8	<0.2	<10	40	0.55	0.66	0.02	0.11	66.7	16.0	25
JNL016 28+50E		0.45	0.0021	3.28	1.89	40.9	<0.2	<10	80	1.77	0.73	0.03	2.55	89.7	83.7	20
JNL016 29+00E		0.46	0.0011	0.07	2.27	18.7	<0.2	<10	40	1.03	0.63	0.02	0.12	82.4	36.7	26
JNL016 29+50E		0.49	0.0016	0.07	1.74	23.2	<0.2	<10	30	0.31	0.71	0.02	0.12	69.5	9.6	24
JNL016 30+00E		0.41	0.0017	0.13	1.64	27.6	<0.2	<10	20	0.34	0.55	0.01	0.16	61.4	8.5	21
JNL016 30+50E		0.38	0.0007	0.16	1.29	9.2	<0.2	<10	30	0.21	0.42	0.02	0.08	53.2	5.3	18
JNL016 31+00E		0.47	0.0013	0.04	1.89	19.1	<0.2	<10	30	0.38	0.56	0.01	0.09	72.7	14.2	24
JNL016 31+50E		0.37	0.0009	0.07	1.21	20.1	<0.2	<10	30	0.25	0.53	0.03	0.16	41.6	8.4	19
JNL016 32+00E		0.45	0.0008	0.12	1.72	15.3	<0.2	<10	30	0.31	0.48	0.01	0.19	53.6	8.6	22
JNL016 32+50E		0.49	0.0019	0.17	1.67	19.1	<0.2	<10	30	0.32	0.50	0.02	0.15	63.3	10.5	24
JNL016 33+00E		0.40	0.0024	0.24	1.54	25.4	<0.2	<10	20	0.35	0.64	0.02	0.12	66.5	8.3	23
JNL016 33+50E		0.58	0.0050	0.53	2.04	33.4	<0.2	<10	30	0.78	1.04	0.01	0.20	65.2	44.6	22
JNL016 34+00E		0.46	0.0024	0.32	1.62	62.0	<0.2	<10	30	0.46	0.63	0.02	0.14	58.0	6.3	24
JNL016 34+50E		0.66	0.0025	0.12	1.98	33.1	<0.2	<10	30	0.51	0.65	0.01	0.16	78.6	16.5	23
JNL016 35+00E		0.44	0.0015	0.12	1.79	18.8	<0.2	<10	30	0.38	0.56	0.02	0.13	55.1	9.0	21
JNL017 00+00		0.34	0.0003	0.39	1.10	5.4	<0.2	<10	130	0.62	0.10	1.60	0.73	34.7	5.6	10
JNL017 00+50W		0.49	0.0008	0.82	1.77	12.0	<0.2	<10	150	0.84	0.16	1.30	0.94	55.1	10.7	22
JNL017 01+00W		0.35	0.0003	0.45	1.06	6.4	<0.2	<10	110	0.46	0.09	2.99	1.10	30.5	5.3	13
JNL017 01+50W		0.41	0.0006	1.08	1.77	9.8	<0.2	<10	120	0.66	0.13	1.03	1.54	49.4	7.1	24
JNL017 02+00W		0.56	0.0006	0.87	1.70	13.4	<0.2	<10	130	0.71	0.15	1.35	1.16	61.1	11.9	23
JNL017 02+50W		0.39	0.0003	0.08	1.54	4.1	<0.2	<10	150	0.70	0.11	1.80	0.15	42.1	7.1	15

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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
JNL016 18+50E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL016 19+00E		2.33	47.0	3.77	3.78	0.10	0.02	0.02	0.017	0.08	50.2	19.0	0.46	769	0.40	0.01
JNL016 19+50E		5.68	72.8	6.67	2.51	0.12	0.04	0.06	0.057	0.08	53.3	12.9	0.24	3140	0.51	0.01
JNL016 20+00E		4.20	61.0	4.50	4.20	0.11	0.05	0.04	0.047	0.04	41.0	30.8	0.48	2100	0.67	0.02
JNL016 20+50E		1.09	40.5	4.20	4.63	0.07	0.07	0.02	0.022	0.03	24.0	46.8	0.72	811	0.38	0.01
JNL016 21+00E		3.17	61.5	4.81	5.24	0.07	0.05	0.03	0.033	0.04	27.5	48.3	0.58	1440	0.65	0.01
JNL016 21+50E		1.13	26.8	3.09	4.29	<0.05	0.04	0.02	0.017	0.03	11.4	34.0	0.47	560	0.34	0.01
JNL016 22+00E		2.53	47.1	4.54	4.85	0.09	0.05	0.03	0.045	0.04	40.1	41.2	0.60	1170	0.41	0.01
JNL016 22+50E		5.69	62.6	5.02	4.55	0.09	0.02	0.01	0.038	0.03	52.9	39.6	0.51	660	0.76	0.01
JNL016 23+00E		4.37	57.5	5.92	5.81	0.06	0.04	0.03	0.054	0.04	26.8	50.1	0.56	349	0.68	0.01
JNL016 23+50E		3.70	60.2	5.03	5.02	0.08	0.02	0.04	0.032	0.03	29.1	45.1	0.63	816	0.44	<0.01
JNL016 24+00E		3.16	51.5	5.14	6.32	0.08	0.12	0.05	0.040	0.03	32.9	50.3	0.65	608	0.61	<0.01
JNL016 24+50E		4.17	54.3	6.74	4.41	0.07	0.05	0.05	0.075	0.05	35.3	26.5	0.42	790	0.93	0.01
JNL016 25+00E		4.36	36.7	5.52	5.21	0.08	0.09	0.05	0.187	0.04	33.1	27.9	0.40	1800	0.65	<0.01
JNL016 25+50E		1.17	27.1	7.86	5.93	0.08	0.28	0.12	1.515	0.06	26.2	41.2	1.05	7960	0.46	0.01
JNL016 26+00E		1.75	38.4	5.41	5.13	0.09	0.11	0.04	0.073	0.04	36.0	37.1	0.60	3880	0.56	0.01
JNL016 26+50E		2.39	49.1	5.39	6.53	0.09	0.07	0.03	0.055	0.03	38.6	50.7	0.69	1460	0.88	0.01
JNL016 27+00E		8.85	65.4	7.00	5.57	0.11	0.12	0.09	0.112	0.05	46.1	41.3	0.52	1280	0.87	0.01
JNL016 27+50E		4.28	31.1	4.75	6.05	0.09	0.04	0.03	0.055	0.04	38.4	47.9	0.51	619	0.84	0.01
JNL016 28+00E		5.73	51.0	5.37	6.91	0.10	0.07	0.06	0.044	0.04	34.8	36.6	0.44	839	0.92	0.01
JNL016 28+50E		6.60	66.4	5.87	5.23	0.12	0.06	0.04	0.116	0.05	46.3	44.4	0.51	2960	0.94	0.01
JNL016 29+00E		5.68	67.5	4.87	7.25	0.09	0.10	0.06	0.044	0.04	41.4	60.7	0.65	1060	0.94	0.01
JNL016 29+50E		3.75	24.8	4.57	7.31	0.08	0.02	0.03	0.032	0.05	34.3	35.5	0.48	441	0.91	0.01
JNL016 30+00E		2.26	24.4	4.60	5.90	0.06	0.04	0.02	0.028	0.04	29.2	35.6	0.43	387	0.64	<0.01
JNL016 30+50E		2.04	22.3	3.48	5.93	0.06	0.04	0.04	0.027	0.04	28.3	24.6	0.32	305	0.70	0.01
JNL016 31+00E		3.13	42.1	4.63	6.66	0.08	0.06	0.01	0.032	0.03	38.2	43.9	0.55	686	0.81	0.01
JNL016 31+50E		2.54	19.8	4.17	6.28	0.09	0.05	0.05	0.022	0.04	21.5	22.1	0.31	373	0.81	0.01
JNL016 32+00E		2.56	24.2	3.90	6.34	0.07	0.06	0.03	0.024	0.04	28.8	34.3	0.44	561	0.57	0.01
JNL016 32+50E		3.01	25.7	4.72	7.35	0.07	0.05	0.04	0.060	0.05	34.2	33.4	0.43	715	0.71	0.01
JNL016 33+00E		3.58	28.6	4.84	7.46	0.08	0.04	0.03	0.079	0.04	34.2	23.2	0.31	481	0.93	0.01
JNL016 33+50E		6.23	71.5	5.27	6.82	0.07	0.09	0.05	0.230	0.05	32.5	49.3	0.58	1800	0.90	0.01
JNL016 34+00E		7.74	31.7	5.41	6.26	0.07	0.03	0.05	0.050	0.06	29.8	20.7	0.29	373	1.03	0.01
JNL016 34+50E		3.69	39.0	4.89	6.06	0.09	0.10	0.01	0.043	0.06	42.1	46.3	0.58	629	0.62	0.01
JNL016 35+00E		3.05	28.1	4.13	6.09	0.06	0.08	0.03	0.029	0.04	30.4	31.2	0.41	434	0.73	0.01
JNL017 00+00		0.68	15.9	1.77	2.82	0.05	0.06	0.05	0.021	0.07	18.4	9.6	0.58	196	1.18	0.02
JNL017 00+50W		1.21	26.8	3.03	4.51	0.09	0.13	0.03	0.032	0.12	31.3	21.4	1.55	259	2.55	0.01
JNL017 01+00W		0.50	17.3	1.69	2.71	0.06	0.09	0.04	0.020	0.08	17.0	11.0	0.91	226	1.80	0.02
JNL017 01+50W		0.67	23.7	2.65	4.53	0.08	0.18	0.02	0.033	0.12	29.6	21.7	1.74	161	4.27	0.01
JNL017 02+00W		0.96	27.9	3.10	4.46	0.10	0.11	0.04	0.029	0.14	34.0	20.9	1.59	324	2.84	0.01
JNL017 02+50W		0.76	12.1	2.37	3.90	0.08	0.10	0.01	0.027	0.14	24.2	18.3	1.28	887	0.60	0.01

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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
JNL016 18+50E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL016 19+00E		0.07	28.8	770	65.4	8.2	<0.001	0.02	1.31	1.3	0.3	0.3	9.3	<0.01	0.01	8.1
JNL016 19+50E		<0.05	88.4	770	648	6.9	<0.001	0.04	13.60	2.9	1.1	0.5	46.8	<0.01	0.04	19.2
JNL016 20+00E		0.13	43.1	740	79.1	4.9	<0.001	0.03	4.03	2.2	0.8	0.5	13.2	<0.01	0.04	10.2
JNL016 20+50E		0.10	40.4	400	47.6	3.2	<0.001	0.01	1.48	2.1	0.6	0.2	15.0	<0.01	0.01	9.6
JNL016 21+00E		0.16	43.8	640	100.0	5.7	<0.001	0.02	4.65	2.1	0.7	0.3	8.3	<0.01	0.05	8.9
JNL016 21+50E		0.15	20.0	580	78.2	4.1	<0.001	0.03	1.73	0.7	0.3	0.2	5.2	<0.01	<0.01	2.4
JNL016 22+00E		0.08	39.2	560	106.5	5.3	<0.001	0.03	3.41	1.7	<0.2	0.2	11.8	<0.01	0.04	8.5
JNL016 22+50E		0.93	25.8	640	139.0	3.7	<0.001	0.02	2.99	2.0	0.8	0.3	8.6	<0.01	0.04	9.7
JNL016 23+00E		0.07	27.3	710	80.7	4.0	<0.001	0.06	4.67	2.2	0.4	0.7	27.9	<0.01	0.05	13.8
JNL016 23+50E		0.06	36.0	500	56.5	3.7	<0.001	0.02	2.00	2.1	<0.2	0.4	7.5	<0.01	0.04	12.5
JNL016 24+00E		0.15	28.9	1050	74.4	5.3	<0.001	0.05	2.02	1.6	0.2	0.3	5.7	<0.01	0.04	8.0
JNL016 24+50E		0.09	32.8	790	122.5	5.4	<0.001	0.04	6.07	2.8	0.4	0.4	12.8	<0.01	0.05	19.1
JNL016 25+00E		0.28	28.8	980	406	6.2	<0.001	0.04	4.63	1.6	0.2	0.6	6.6	<0.01	0.06	3.5
JNL016 25+50E		0.25	37.4	1520	2210	5.6	<0.001	0.09	7.03	5.1	1.5	1.4	144.5	<0.01	0.03	4.1
JNL016 26+00E		0.23	33.4	990	163.5	4.6	<0.001	0.04	4.88	2.3	0.3	0.5	85.5	<0.01	0.08	5.4
JNL016 26+50E		0.45	41.0	720	97.0	4.9	<0.001	0.03	2.88	1.4	0.3	0.4	7.5	<0.01	0.12	3.7
JNL016 27+00E		0.09	39.8	1400	127.5	5.9	<0.001	0.07	6.43	2.3	0.9	1.0	26.9	<0.01	0.14	6.5
JNL016 27+50E		0.49	27.7	630	59.7	5.5	<0.001	0.04	2.63	1.2	0.2	0.7	10.8	<0.01	0.07	2.7
JNL016 28+00E		0.40	22.9	1210	66.3	7.8	<0.001	0.05	1.93	0.8	0.5	0.5	6.8	0.01	0.09	2.2
JNL016 28+50E		0.21	48.3	770	414	5.5	<0.001	0.04	4.81	2.1	0.5	0.4	11.6	<0.01	0.11	5.4
JNL016 29+00E		0.36	34.3	740	61.4	6.5	<0.001	0.04	1.72	1.4	0.6	0.4	6.4	<0.01	0.09	4.0
JNL016 29+50E		0.48	22.2	860	38.0	8.0	<0.001	0.04	1.88	0.8	<0.2	0.5	6.0	<0.01	0.07	1.6
JNL016 30+00E		0.40	21.2	700	37.0	6.2	<0.001	0.04	1.96	1.0	<0.2	0.4	5.6	<0.01	0.06	3.2
JNL016 30+50E		0.32	14.6	1140	23.4	5.8	<0.001	0.07	0.99	0.4	0.2	0.3	3.8	<0.01	0.09	0.9
JNL016 31+00E		0.32	25.3	780	37.3	5.8	<0.001	0.04	1.39	1.0	<0.2	0.4	4.6	0.01	0.08	3.1
JNL016 31+50E		0.38	15.7	870	32.1	6.3	<0.001	0.06	1.27	0.2	0.2	0.5	5.8	0.04	0.13	0.4
JNL016 32+00E		0.31	18.1	970	25.0	6.2	<0.001	0.07	1.91	0.6	0.2	0.3	5.8	<0.01	0.05	2.1
JNL016 32+50E		0.44	18.2	1170	36.6	7.1	<0.001	0.06	1.54	0.5	0.3	0.6	4.2	0.01	0.06	1.3
JNL016 33+00E		0.40	15.1	1430	36.9	6.9	<0.001	0.07	2.09	0.4	<0.2	1.0	4.4	<0.01	0.06	1.1
JNL016 33+50E		0.31	32.2	1150	68.0	8.1	<0.001	0.06	4.14	1.6	0.5	1.2	4.9	<0.01	0.09	4.1
JNL016 34+00E		0.48	14.2	1350	79.4	7.8	<0.001	0.09	3.05	0.5	0.2	0.6	11.8	<0.01	0.09	0.9
JNL016 34+50E		0.26	31.3	790	51.1	6.8	<0.001	0.03	2.51	1.5	<0.2	0.5	5.5	<0.01	0.09	5.1
JNL016 35+00E		0.36	19.2	1020	31.4	6.3	<0.001	0.05	1.63	0.7	0.3	0.4	5.2	<0.01	0.09	1.9
JNL017 00+00		0.21	11.9	1320	11.4	6.6	<0.001	0.13	0.83	1.7	1.5	0.2	62.4	<0.01	0.02	0.7
JNL017 00+50W		0.14	28.2	1370	19.0	7.7	<0.001	0.06	1.82	4.8	1.5	0.2	59.7	<0.01	0.01	2.8
JNL017 01+00W		0.12	16.1	1310	9.5	4.7	<0.001	0.14	1.19	1.7	0.8	0.2	110.5	<0.01	0.02	0.7
JNL017 01+50W		0.18	28.7	1250	16.9	7.5	<0.001	0.06	2.05	4.8	1.2	0.2	42.1	<0.01	0.04	2.5
JNL017 02+00W		0.14	31.1	1290	18.2	6.9	<0.001	0.03	2.15	5.4	1.3	0.2	53.4	<0.01	0.03	4.8
JNL017 02+50W		0.17	13.4	1340	12.4	9.2	<0.001	0.10	0.48	3.1	0.7	0.2	81.4	<0.01	0.02	1.4

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JNL016 18+50E		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
JNL016 19+00E		0.007	0.07	1.57	9	0.08	8.85	102	0.8	
JNL016 19+50E		<0.005	0.11	2.20	7	0.07	19.35	557	3.1	0.29
JNL016 20+00E		0.010	0.11	2.11	11	0.06	15.00	127	1.1	
JNL016 20+50E		0.007	0.04	1.44	12	0.06	8.72	97	2.1	
JNL016 21+00E		0.008	0.07	1.77	13	0.07	10.15	156	1.5	
JNL016 21+50E		0.012	0.03	0.83	13	<0.05	3.37	96	1.1	
JNL016 22+00E		0.006	0.07	1.33	12	0.05	8.84	214	1.3	
JNL016 22+50E		<0.005	0.07	1.98	10	<0.05	5.95	194	0.6	
JNL016 23+00E		<0.005	0.07	2.56	14	<0.05	4.19	103	1.5	
JNL016 23+50E		<0.005	0.06	1.50	13	0.05	7.51	137	1.2	
JNL016 24+00E		<0.005	0.06	1.63	16	<0.05	4.36	131	3.5	
JNL016 24+50E		<0.005	0.12	3.10	13	0.07	7.65	215	2.3	
JNL016 25+00E		0.006	0.08	1.23	19	0.06	7.63	313	2.7	
JNL016 25+50E		<0.005	0.13	2.35	31	0.25	31.2	965	9.3	
JNL016 26+00E		0.007	0.08	1.76	18	0.08	9.03	175	2.8	
JNL016 26+50E		0.014	0.08	1.39	23	0.10	5.69	150	1.6	
JNL016 27+00E		<0.005	0.13	4.83	16	0.06	10.80	178	3.5	
JNL016 27+50E		0.014	0.08	1.06	23	0.15	4.65	103	0.9	
JNL016 28+00E		0.010	0.11	1.21	26	0.13	4.26	100	2.2	
JNL016 28+50E		0.006	0.11	2.25	17	0.06	10.60	492	2.3	
JNL016 29+00E		0.010	0.09	1.51	23	0.09	5.87	121	3.3	
JNL016 29+50E		0.014	0.08	1.01	26	0.12	3.66	90	0.8	
JNL016 30+00E		0.008	0.08	0.73	20	0.15	3.46	87	1.5	
JNL016 30+50E		0.007	0.06	0.73	20	0.06	2.58	57	1.1	
JNL016 31+00E		0.010	0.08	0.97	24	0.10	4.27	100	1.7	
JNL016 31+50E		0.010	0.05	0.55	23	0.16	2.27	61	0.5	
JNL016 32+00E		0.007	0.06	0.74	19	0.06	2.57	80	1.9	
JNL016 32+50E		0.012	0.06	0.74	24	0.08	2.97	88	1.3	
JNL016 33+00E		0.009	0.12	0.97	27	0.13	3.49	68	1.0	
JNL016 33+50E		0.009	0.12	1.38	21	0.11	8.60	115	3.1	
JNL016 34+00E		0.011	0.10	1.23	28	0.17	3.18	86	1.0	
JNL016 34+50E		0.007	0.08	1.04	19	0.09	5.04	125	2.3	
JNL016 35+00E		0.010	0.08	0.85	20	0.11	3.70	83	2.3	
JNL017 00+00		0.006	0.10	0.88	21	<0.05	14.50	66	1.9	
JNL017 00+50W		0.005	0.18	1.17	44	<0.05	24.8	133	3.8	
JNL017 01+00W		<0.005	0.10	1.13	44	<0.05	12.40	101	2.9	
JNL017 01+50W		0.007	0.19	1.41	104	<0.05	21.2	186	6.8	
JNL017 02+00W		0.006	0.16	1.24	60	<0.05	18.90	160	4.2	
JNL017 02+50W		0.005	0.07	0.35	14	<0.05	15.90	50	3.1	

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

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SUITE 200
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Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method	WEI- 21	Au- ST43	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	0.0001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
JNL017 03+00W		0.30	0.0002	0.07	1.76	3.2	<0.2	<10	150	0.88	0.12	1.15	0.13	52.3	7.2	16
JNL017 03+50W		0.30	0.0001	0.04	1.76	2.6	<0.2	<10	100	0.72	0.09	1.29	0.07	48.2	7.6	17
JNL017 04+00W		0.34	0.0003	0.06	2.01	3.6	<0.2	<10	120	0.96	0.13	0.94	0.14	60.1	7.0	21
JNL017 04+50W		0.30	0.0003	0.23	0.88	6.8	<0.2	<10	120	0.63	0.09	2.62	0.77	42.9	5.7	10
JNL017 05+00W		0.40	0.0008	0.37	1.24	15.0	<0.2	<10	110	0.81	0.11	1.74	0.50	53.1	9.9	15
JNL017 05+50W		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL017 06+00W		0.41	0.0008	0.08	1.89	4.1	<0.2	<10	120	0.82	0.13	0.86	0.19	46.3	4.1	20
JNL017 06+50W		0.46	0.0011	0.17	2.05	35.1	<0.2	<10	90	2.08	0.51	0.34	0.33	99.5	15.2	25
JNL017 07+00W		0.36	0.0005	0.11	1.78	6.6	<0.2	<10	130	0.88	0.14	1.12	0.37	49.0	4.9	18
JNL017 07+50W		0.28	0.0004	0.04	0.91	1.3	<0.2	<10	90	0.37	0.06	1.89	0.23	22.5	2.5	5
JNL017 08+00W		0.39	0.0011	0.07	1.06	89.9	<0.2	<10	100	0.55	0.21	1.15	0.18	33.6	4.2	9
JNL017 08+50W		0.32	0.0005	0.15	0.59	38.5	<0.2	<10	40	0.24	0.23	0.07	0.28	18.10	3.4	5
JNL017 09+00W		0.31	0.0019	0.18	1.13	22.9	<0.2	<10	90	0.38	0.16	1.09	0.48	21.9	2.4	6
JNL017 09+50W		0.22	0.0004	0.03	0.25	3.8	<0.2	<10	30	0.07	0.06	0.53	0.31	3.51	0.8	1
JNL017 10+00W		0.42	0.0053	0.19	1.36	193.0	<0.2	<10	100	0.68	0.87	0.88	0.34	47.0	7.3	17
JNL017 10+50W		0.36	0.0034	0.15	1.19	113.5	<0.2	<10	70	0.57	1.03	0.51	0.51	59.1	9.9	18
JNL017 11+00W		0.21	0.0013	0.16	1.03	110.5	<0.2	<10	80	0.37	0.74	1.60	0.86	16.90	3.8	7
JNL017 11+50W		<0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL017 12+00W		0.28	0.0005	0.08	1.07	25.0	<0.2	<10	140	0.46	0.08	2.48	0.21	24.3	3.5	7
JNL017 12+50W		0.30	0.0009	0.14	1.08	3.7	<0.2	<10	140	0.61	0.09	1.54	0.22	39.8	4.5	8
JNL017 13+00W		0.58	0.0031	0.24	1.47	47.4	<0.2	<10	60	0.58	0.60	0.27	0.48	50.5	17.4	19
JNL017 13+50W		0.52	0.0047	0.23	1.47	52.2	<0.2	<10	30	0.50	0.74	0.07	0.27	34.6	12.8	17
JNL017 14+00W		0.42	0.0038	0.16	0.70	39.1	<0.2	<10	30	0.40	0.33	0.31	0.28	43.4	10.4	14
JNL017 14+50W		0.60	0.0037	0.10	0.85	43.8	<0.2	<10	30	0.35	0.38	0.55	0.27	37.1	11.9	16
JNL017 15+00W		0.29	0.0032	0.13	0.54	28.5	<0.2	<10	20	0.09	0.19	0.02	0.03	11.10	1.7	6
JNL017 15+50W		0.47	0.0031	0.08	0.82	28.4	<0.2	<10	30	0.13	0.41	0.02	0.05	33.6	4.4	10
JNL017 16+00W		0.37	0.0003	0.06	0.33	1.0	<0.2	<10	10	<0.05	0.03	0.04	0.02	1.80	0.5	1
JNL017 16+50W		0.59	0.0049	0.09	0.53	21.2	<0.2	<10	20	0.05	0.28	0.02	0.05	44.1	1.8	6
JNL017 17+00W		0.50	0.0020	0.12	1.05	41.9	<0.2	<10	40	0.12	0.53	0.02	0.04	38.4	3.3	14
JNL017 17+50W		0.39	0.0903	0.12	0.51	174.5	<0.2	<10	20	0.13	0.50	0.05	0.07	30.6	3.6	8
JNL017 18+00W		0.47	0.0022	0.10	0.87	24.0	<0.2	<10	40	0.10	0.31	0.06	0.08	36.5	2.2	12
JNL017 18+50W		0.40	0.0088	0.34	1.10	74.1	<0.2	<10	50	0.68	0.38	0.68	0.38	19.30	10.6	11
JNL017 19+00W		0.44	0.0056	0.17	0.70	127.0	<0.2	<10	20	0.29	0.98	0.01	0.47	32.7	5.0	12
JNL017 19+50W		0.58	0.0030	0.21	1.59	74.9	<0.2	<10	50	0.81	0.66	0.30	0.23	31.7	14.7	22
JNL017 20+00W		0.35	0.0023	0.17	0.57	21.4	<0.2	<10	20	0.14	0.22	0.05	0.08	22.3	2.5	8
JNL017 20+50W		0.38	0.0033	0.32	0.83	90.0	<0.2	<10	40	0.53	0.52	0.67	0.38	33.2	12.8	13
JNL017 21+00W		0.47	0.0016	0.18	0.40	65.3	<0.2	<10	20	0.34	0.42	2.28	0.22	36.7	15.2	10
JNL017 21+50W		0.45	0.0031	0.17	1.28	26.9	<0.2	<10	50	0.40	0.35	0.82	0.18	23.0	8.4	14
JNL017 22+00W		0.49	0.0032	0.19	1.47	38.2	<0.2	<10	60	0.39	0.47	0.48	0.12	29.0	9.6	19
JNL017 22+50W		0.33	0.0047	0.38	1.08	39.7	<0.2	<10	80	0.70	0.28	1.69	0.19	18.90	6.7	10

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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
JNL017 03+00W		0.72	10.2	2.17	4.75	0.08	0.09	0.02	0.027	0.13	29.3	20.9	1.50	713	0.47	0.02
JNL017 03+50W		0.76	9.9	2.02	5.04	0.08	0.08	<0.01	0.021	0.13	24.1	21.9	1.65	260	0.40	0.02
JNL017 04+00W		0.69	10.3	2.46	5.61	0.09	0.08	0.02	0.029	0.14	33.9	26.3	1.92	478	0.43	0.01
JNL017 04+50W		0.39	14.8	1.91	2.43	0.06	0.12	0.04	0.025	0.08	26.1	10.5	0.69	434	0.95	0.01
JNL017 05+00W		0.65	18.9	2.74	3.27	0.08	0.16	0.01	0.030	0.15	28.7	14.7	1.03	416	1.38	0.01
JNL017 05+50W		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL017 06+00W		0.67	7.4	2.28	5.60	0.06	0.12	0.03	0.031	0.16	29.2	24.0	1.73	207	0.27	0.01
JNL017 06+50W		19.80	78.1	4.31	5.26	0.11	0.04	0.04	0.038	0.08	39.1	41.8	0.74	883	1.70	0.01
JNL017 07+00W		0.74	10.7	2.38	4.91	0.07	0.14	0.05	0.036	0.15	33.2	22.2	1.52	457	0.38	0.01
JNL017 07+50W		0.30	7.5	0.89	1.86	<0.05	0.03	0.03	0.012	0.05	11.7	7.0	0.44	400	0.19	0.03
JNL017 08+00W		3.23	10.5	2.04	2.86	<0.05	0.08	0.04	0.023	0.07	15.0	10.1	0.37	347	0.52	0.02
JNL017 08+50W		1.73	6.4	1.33	2.72	<0.05	<0.02	0.03	0.022	0.06	9.2	2.8	0.09	181	0.53	0.02
JNL017 09+00W		0.74	8.2	1.10	2.80	<0.05	0.09	0.04	0.016	0.05	15.1	7.2	0.31	212	0.64	0.03
JNL017 09+50W		0.35	4.3	0.30	1.01	<0.05	0.05	0.03	<0.005	0.02	2.1	1.5	0.03	17	0.71	0.03
JNL017 10+00W		2.42	19.9	2.87	3.73	0.06	0.08	0.03	0.054	0.11	27.3	21.3	0.64	304	0.65	0.01
JNL017 10+50W		1.69	26.7	3.20	3.59	0.05	0.05	0.06	0.057	0.12	28.0	17.6	0.51	483	0.47	0.01
JNL017 11+00W		1.88	16.7	1.30	2.83	<0.05	0.07	0.02	0.023	0.04	8.2	10.0	0.27	280	0.41	0.03
JNL017 11+50W		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL017 12+00W		0.45	10.7	1.43	2.34	<0.05	0.09	0.04	0.015	0.08	13.6	7.2	0.45	207	0.32	0.02
JNL017 12+50W		0.31	9.1	1.68	2.65	0.05	0.05	0.03	0.020	0.07	22.2	8.2	0.44	562	0.30	0.02
JNL017 13+00W		0.92	34.0	4.15	3.89	0.07	0.05	0.01	0.038	0.06	23.4	28.4	0.71	867	1.05	0.01
JNL017 13+50W		1.08	27.9	4.14	4.50	<0.05	0.03	0.03	0.045	0.04	16.5	21.8	0.41	617	0.57	0.01
JNL017 14+00W		0.83	22.8	3.24	2.26	0.06	0.03	0.02	0.027	0.03	24.5	15.4	0.24	363	0.34	<0.01
JNL017 14+50W		0.97	21.5	3.27	2.43	<0.05	0.05	0.02	0.025	0.06	16.5	16.4	0.32	532	0.47	0.01
JNL017 15+00W		0.61	4.7	1.07	1.98	<0.05	<0.02	0.03	0.010	0.03	5.6	6.1	0.12	52	0.29	0.02
JNL017 15+50W		1.14	10.2	2.33	5.03	<0.05	<0.02	0.01	0.014	0.04	17.6	8.0	0.15	176	0.50	0.01
JNL017 16+00W		0.12	1.8	0.23	1.37	<0.05	<0.02	0.02	<0.005	0.02	1.0	0.3	0.01	15	0.12	0.03
JNL017 16+50W		1.57	3.1	1.04	4.34	0.05	<0.02	0.01	0.006	0.03	21.9	3.5	0.08	137	0.34	0.01
JNL017 17+00W		2.01	8.1	2.37	6.00	<0.05	<0.02	0.03	0.012	0.04	19.9	9.1	0.17	115	0.65	0.01
JNL017 17+50W		2.61	10.4	1.72	3.79	<0.05	<0.02	0.02	0.010	0.04	17.0	6.5	0.14	106	0.62	0.01
JNL017 18+00W		2.25	6.5	1.31	5.10	<0.05	<0.02	0.02	0.009	0.05	20.6	9.5	0.17	111	0.71	0.01
JNL017 18+50W		4.87	40.2	2.09	3.04	<0.05	0.04	0.03	0.045	0.04	22.5	11.8	0.33	629	0.85	0.03
JNL017 19+00W		1.24	20.4	2.50	5.92	0.76	1.19	0.20	0.326	0.03	17.0	12.2	0.16	129	0.67	<0.01
JNL017 19+50W		4.12	53.5	3.78	4.83	0.05	0.05	0.02	0.042	0.07	23.7	28.6	0.39	483	1.15	0.01
JNL017 20+00W		1.09	7.0	1.15	2.68	<0.05	<0.02	0.01	0.009	0.03	12.5	8.9	0.14	68	0.32	0.02
JNL017 20+50W		1.36	30.9	3.77	2.09	0.06	0.05	0.07	0.038	0.04	25.1	9.2	0.15	329	0.42	0.01
JNL017 21+00W		0.55	36.6	3.97	1.34	0.06	0.02	0.07	0.033	0.02	20.7	4.0	0.14	361	0.50	0.01
JNL017 21+50W		1.13	30.3	2.58	3.81	<0.05	0.08	0.01	0.020	0.05	13.1	25.7	0.33	316	0.51	0.02
JNL017 22+00W		1.57	29.3	3.20	4.51	<0.05	0.07	0.02	0.027	0.06	16.4	30.5	0.39	363	0.68	0.02
JNL017 22+50W		0.93	44.0	1.99	2.87	<0.05	0.12	0.06	0.017	0.06	13.9	8.6	0.15	281	0.92	0.02

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

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL017 03+00W		0.19	12.6	1440	11.6	11.2	<0.001	0.09	0.30	2.5	0.2	0.3	58.6	<0.01	0.01	1.1
JNL017 03+50W		0.20	12.1	1140	9.1	9.4	<0.001	0.07	0.35	2.7	0.2	0.3	57.4	<0.01	0.03	1.9
JNL017 04+00W		0.30	14.3	1350	12.1	11.9	<0.001	0.06	0.38	4.2	0.3	0.3	47.2	<0.01	0.02	2.4
JNL017 04+50W		0.13	13.8	1520	11.1	6.5	<0.001	0.15	0.91	3.1	0.9	0.2	114.5	<0.01	0.01	1.2
JNL017 05+00W		0.13	22.1	1420	14.8	7.6	<0.001	0.07	1.72	4.6	0.8	0.2	76.1	<0.01	0.02	3.0
JNL017 05+50W		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL017 06+00W		0.19	13.1	1390	12.1	14.8	<0.001	0.06	0.43	4.5	0.6	0.4	44.8	<0.01	0.02	3.5
JNL017 06+50W		0.43	27.1	1250	27.1	7.8	<0.001	0.09	1.81	1.8	1.2	0.4	22.3	<0.01	0.04	2.3
JNL017 07+00W		0.19	13.7	1680	16.8	13.5	<0.001	0.08	0.70	4.7	0.6	0.3	56.3	<0.01	0.02	2.9
JNL017 07+50W		0.21	4.9	1000	4.5	4.7	<0.001	0.11	0.29	0.6	<0.2	0.2	79.1	<0.01	0.01	0.3
JNL017 08+00W		0.36	10.6	1000	7.8	8.2	<0.001	0.10	1.52	1.2	0.4	0.6	54.2	<0.01	0.04	1.7
JNL017 08+50W		0.19	6.5	770	5.1	10.8	<0.001	0.04	1.13	0.2	0.3	0.8	8.0	<0.01	0.01	0.2
JNL017 09+00W		0.41	6.9	1430	5.1	6.1	<0.001	0.11	0.60	0.8	0.6	0.3	50.6	<0.01	0.03	0.7
JNL017 09+50W		0.21	1.3	580	1.3	0.8	<0.001	0.10	0.12	0.2	0.2	<0.2	27.3	<0.01	0.01	<0.2
JNL017 10+00W		0.34	22.0	1000	16.7	12.9	0.001	0.06	4.26	2.9	0.8	1.3	39.0	<0.01	0.03	3.9
JNL017 10+50W		0.39	24.9	770	26.4	11.6	<0.001	0.03	2.40	3.0	0.8	1.3	30.9	<0.01	0.02	8.4
JNL017 11+00W		0.46	8.5	1280	9.6	6.5	<0.001	0.16	0.54	0.6	0.9	0.6	69.6	<0.01	0.02	0.7
JNL017 11+50W		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
JNL017 12+00W		0.33	8.9	1430	7.3	6.1	<0.001	0.17	0.66	1.3	0.6	0.2	109.0	<0.01	0.02	0.6
JNL017 12+50W		0.22	7.9	1350	10.5	6.6	<0.001	0.11	0.60	1.6	0.6	0.2	74.5	0.01	0.02	0.7
JNL017 13+00W		0.13	32.8	1040	46.4	5.8	<0.001	0.02	2.09	2.8	0.5	0.3	19.8	<0.01	0.04	5.9
JNL017 13+50W		0.36	18.3	820	57.1	7.2	<0.001	0.02	1.57	1.3	0.4	0.4	5.9	<0.01	0.06	3.6
JNL017 14+00W		0.12	26.1	510	27.6	4.1	<0.001	0.01	1.16	1.5	0.5	0.3	20.3	<0.01	0.02	7.4
JNL017 14+50W		0.13	23.2	930	29.8	5.7	<0.001	0.07	1.22	1.4	0.5	0.3	26.8	<0.01	0.02	4.7
JNL017 15+00W		0.09	4.8	490	39.1	3.7	<0.001	0.03	0.31	0.1	0.2	0.2	3.4	<0.01	0.01	<0.2
JNL017 15+50W		0.24	8.6	510	15.9	6.9	<0.001	0.03	0.66	0.3	0.4	0.5	4.5	<0.01	0.03	0.6
JNL017 16+00W		0.11	0.8	300	1.6	1.2	<0.001	0.02	0.05	0.1	0.2	<0.2	7.5	<0.01	<0.01	<0.2
JNL017 16+50W		0.24	3.7	230	7.5	6.0	<0.001	0.01	0.41	0.2	<0.2	0.7	4.6	<0.01	0.04	0.2
JNL017 17+00W		0.28	8.2	570	19.9	7.5	<0.001	0.03	0.56	0.2	0.3	0.7	6.1	<0.01	0.03	0.2
JNL017 17+50W		0.31	7.6	430	12.1	7.6	<0.001	0.03	1.16	0.4	0.2	0.4	7.6	<0.01	0.04	0.6
JNL017 18+00W		0.46	6.5	500	20.9	10.5	<0.001	0.01	0.33	0.3	0.5	0.6	9.0	<0.01	0.04	0.5
JNL017 18+50W		0.34	14.7	1290	46.4	5.5	<0.001	0.09	0.85	0.8	0.7	0.5	65.6	<0.01	0.04	0.8
JNL017 19+00W		1.61	12.9	430	19.0	5.8	<0.001	0.01	1.21	0.4	0.4	2.0	4.4	1.08	1.43	1.4
JNL017 19+50W		0.34	42.7	1030	40.7	11.9	<0.001	0.06	1.63	1.2	0.6	0.5	38.0	<0.01	0.08	2.2
JNL017 20+00W		0.24	7.4	390	13.0	5.9	<0.001	0.03	0.45	0.3	<0.2	0.4	7.5	<0.01	0.03	0.4
JNL017 20+50W		0.17	29.3	890	39.9	6.0	<0.001	0.08	2.49	2.7	0.9	0.4	52.3	<0.01	0.05	4.3
JNL017 21+00W		0.06	42.8	690	32.1	2.1	<0.001	0.07	3.66	2.8	0.8	0.3	90.5	<0.01	0.03	6.1
JNL017 21+50W		0.41	20.2	790	23.3	4.9	<0.001	0.09	1.19	0.9	0.6	0.3	57.7	<0.01	0.02	1.8
JNL017 22+00W		0.37	24.3	740	28.3	7.1	<0.001	0.06	1.42	1.1	0.2	0.3	45.1	<0.01	0.07	3.3
JNL017 22+50W		0.37	27.5	1360	15.8	4.9	<0.001	0.16	1.20	0.9	0.7	0.3	133.0	<0.01	0.03	1.5

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

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SUITE 200
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Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
JNL017 03+00W		0.007	0.09	0.35	16	<0.05	15.60	51	2.7	
JNL017 03+50W		0.007	0.08	0.38	16	0.06	10.30	57	2.7	
JNL017 04+00W		0.009	0.08	0.39	20	0.05	16.85	60	1.9	
JNL017 04+50W		<0.005	0.08	0.97	20	<0.05	18.90	69	3.9	
JNL017 05+00W		<0.005	0.10	0.70	24	<0.05	16.70	102	5.0	
JNL017 05+50W		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
JNL017 06+00W		0.005	0.11	0.36	17	<0.05	13.60	54	3.0	
JNL017 06+50W		0.012	0.08	5.98	21	0.13	14.00	157	1.0	
JNL017 07+00W		0.005	0.08	0.38	15	<0.05	18.00	101	3.5	
JNL017 07+50W		0.009	0.04	0.32	8	<0.05	6.14	27	1.1	
JNL017 08+00W		0.011	0.07	3.18	13	0.06	6.01	36	2.2	
JNL017 08+50W		0.005	0.09	0.43	13	0.09	1.73	30	0.6	
JNL017 09+00W		0.013	0.04	0.52	12	<0.05	6.74	41	3.0	
JNL017 09+50W		0.012	0.02	0.58	5	<0.05	1.00	20	1.4	
JNL017 10+00W		0.007	0.11	1.51	22	0.12	9.62	82	2.1	
JNL017 10+50W		0.012	0.20	0.80	20	0.23	8.07	89	1.5	
JNL017 11+00W		0.011	0.07	1.12	11	0.07	3.14	80	2.5	
JNL017 11+50W		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
JNL017 12+00W		0.007	0.06	0.97	8	<0.05	7.57	46	3.2	
JNL017 12+50W		0.006	0.06	0.51	10	<0.05	11.50	36	1.6	
JNL017 13+00W		0.005	0.07	0.87	16	0.05	9.08	144	1.5	
JNL017 13+50W		0.009	0.09	0.70	16	0.10	4.14	75	0.7	
JNL017 14+00W		<0.005	0.13	1.35	11	0.19	6.29	89	1.0	
JNL017 14+50W		0.005	0.12	1.53	12	0.15	4.98	87	1.4	
JNL017 15+00W		0.006	0.06	0.36	9	0.10	0.97	19	<0.5	
JNL017 15+50W		0.008	0.09	0.44	21	0.18	1.51	30	<0.5	
JNL017 16+00W		0.012	0.02	0.16	6	<0.05	0.31	3	<0.5	
JNL017 16+50W		0.013	0.09	0.37	17	0.11	1.28	16	<0.5	
JNL017 17+00W		0.012	0.14	0.58	26	0.19	1.62	27	<0.5	
JNL017 17+50W		0.011	0.17	0.51	19	0.13	1.47	35	<0.5	
JNL017 18+00W		0.012	0.10	0.57	20	0.18	1.76	27	<0.5	
JNL017 18+50W		0.011	0.09	1.75	12	0.12	9.46	71	0.9	
JNL017 19+00W		0.009	1.03	0.89	27	0.15	2.87	48	<0.5	
JNL017 19+50W		0.009	0.17	1.68	20	0.21	10.75	131	1.1	
JNL017 20+00W		0.009	0.08	0.56	12	0.12	1.72	28	<0.5	
JNL017 20+50W		0.005	0.16	3.42	13	0.32	11.75	111	1.5	
JNL017 21+00W		<0.005	0.11	1.77	10	0.33	8.67	94	1.0	
JNL017 21+50W		0.009	0.06	1.24	14	0.10	4.29	61	2.1	
JNL017 22+00W		0.006	0.08	1.26	16	0.16	3.61	87	2.0	
JNL017 22+50W		0.007	0.08	1.79	11	0.20	7.50	60	3.2	

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

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-ST43 Au ppm 0.0001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.2	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
JNL017 23+00W		0.48	0.0024	0.25	1.27	21.9	<0.2	<10	20	0.23	0.30	0.05	0.05	31.1	6.0	17
JNL017 23+50W		0.51	0.0051	0.10	1.73	35.6	<0.2	<10	30	0.42	0.45	0.03	0.12	42.2	10.2	22
JNL017 24+00W		0.37	0.0009	0.16	0.56	8.3	<0.2	<10	20	0.10	0.15	0.02	0.02	13.25	1.4	5
JNL017 24+50W		0.53	0.0045	0.20	1.63	37.4	<0.2	<10	20	0.32	0.36	0.02	0.09	36.9	9.6	21
JNL017 25+00W		0.47	0.0033	0.15	1.70	41.2	<0.2	<10	30	0.30	0.45	0.02	0.09	37.7	8.0	23
LJJND001		0.43	0.0004	0.11	0.07	648	<0.2	<10	60	0.23	0.04	24.9	0.21	4.14	108.0	1
LJJND002		0.37	0.0003	0.08	6.51	848	<0.2	<10	10	2.11	0.16	0.61	2.04	15.15	33.0	42
RZJND001a		0.55	0.0268	0.92	3.04	1215	<0.2	<10	50	3.19	34.8	0.19	0.44	101.5	41.0	32
RZJND001b		0.63	0.0036	0.08	0.29	39.5	<0.2	<10	20	0.13	0.45	0.01	0.05	54.2	6.7	12
RZJND002		0.70	0.0069	0.20	0.64	32.4	<0.2	<10	20	0.38	0.39	0.01	0.14	46.3	22.3	11
RZJND003		0.70	0.0084	0.12	0.87	272	<0.2	<10	250	0.39	0.32	0.15	0.26	50.3	210	13
RZJND004		0.71	0.0029	0.16	0.41	24.5	<0.2	<10	20	0.49	0.36	0.02	0.06	41.8	16.8	18
RZJND005		0.52	0.0077	0.13	0.76	93.6	<0.2	<10	20	0.35	0.42	0.01	0.05	49.4	17.3	14
RZJND006		0.54	0.0015	0.09	0.43	12.6	<0.2	<10	40	0.37	0.08	0.04	0.16	8.58	47.0	3
RZJND007		0.42	0.0062	0.15	0.89	34.8	<0.2	<10	40	0.39	0.57	0.01	0.19	50.7	7.6	16
RZJND008		0.48	0.0032	0.24	1.60	115.0	<0.2	<10	70	0.71	1.27	0.22	0.35	49.7	9.9	20
RZJND009		0.60	0.0022	0.10	1.66	81.3	<0.2	<10	50	0.63	0.96	0.11	0.52	45.2	11.9	22
RZJND010		0.51	0.0027	0.09	1.49	44.4	<0.2	<10	40	0.55	1.34	0.03	0.13	32.4	4.4	15
VFL001 00+00		0.50	0.0073	0.26	1.54	9.9	<0.2	<10	20	0.39	0.34	0.46	0.28	22.4	13.4	23
VFL001 00+50E		0.55	0.0016	0.26	1.45	11.3	<0.2	<10	30	0.53	0.70	0.17	0.18	18.50	33.8	19
VFL001 01+00E		0.54	0.0103	1.26	0.90	50.5	<0.2	<10	50	0.63	0.35	0.24	3.28	24.2	13.4	13
VFL001 01+50E		0.54	0.0034	0.14	1.50	21.4	<0.2	<10	30	0.29	0.56	0.01	0.30	20.2	10.4	20
VFL001 02+00E		0.62	0.0021	0.15	1.52	19.5	<0.2	<10	30	0.25	0.38	0.02	0.26	26.5	11.0	22
VFL001 02+50E		0.50	0.0021	0.04	1.58	15.5	<0.2	<10	30	0.46	0.36	0.07	0.22	51.2	11.7	22
VFL001 03+00E		0.51	0.0011	0.08	1.42	7.5	<0.2	<10	70	0.41	0.38	0.21	0.14	41.1	13.4	20
VFL001 03+50E		0.55	0.0014	0.06	1.02	12.5	<0.2	<10	30	0.24	0.43	0.01	0.17	22.8	10.1	16
VFL001 04+00E		0.52	0.0008	0.09	1.22	9.6	<0.2	<10	40	0.28	0.42	0.02	0.10	25.6	8.8	17
VFL001 04+50E		0.61	0.0006	0.06	1.42	6.9	<0.2	<10	40	0.38	0.35	0.02	0.14	17.45	11.4	16
VFL001 05+00E		0.46	0.0005	0.13	1.28	5.1	<0.2	<10	40	0.30	0.33	0.04	0.23	11.75	7.2	17
VFL001 05+50E		0.64	0.0012	0.10	1.47	11.4	<0.2	<10	50	0.43	0.36	0.13	0.28	18.35	11.7	19
VFL001 06+00E		0.71	0.0031	0.05	0.57	317	<0.2	<10	20	0.26	0.54	0.01	0.10	25.5	6.8	19
VFL001 06+50E		0.60	0.0009	0.06	1.40	30.5	<0.2	<10	20	0.32	0.34	0.02	0.04	20.6	19.9	25
VFL001 07+00E		0.65	0.0017	0.06	0.69	14.6	<0.2	<10	20	0.28	0.43	0.03	0.09	31.8	12.0	14
VFL001 07+50E		0.54	0.0011	0.09	0.97	20.5	<0.2	<10	20	0.34	0.61	0.03	0.15	11.65	12.2	18
VFL001 08+00E		0.69	0.0027	0.12	0.84	24.6	<0.2	<10	10	0.42	2.11	0.03	0.18	21.6	16.2	17
VFL002 00+00		0.57	0.0040	0.27	1.48	41.7	<0.2	<10	20	0.43	0.42	0.07	0.19	36.5	13.1	22
VFL002 00+25W		0.44	0.0017	0.12	0.88	29.9	<0.2	<10	20	0.15	0.34	0.02	0.04	28.3	6.1	15
VFL002 00+50W		0.44	0.0023	0.24	1.40	53.3	<0.2	<10	50	0.68	0.46	0.60	0.33	25.8	20.6	23
VFL002 00+75W		0.50	0.0035	0.06	1.25	55.2	<0.2	<10	30	0.48	0.39	0.02	0.19	48.9	14.2	18
VFL002 00+00W		0.47	0.0041	0.17	1.33	51.2	<0.2	<10	20	0.45	0.40	0.15	0.25	43.3	14.3	20

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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
JNL017 23+00W		1.54	23.7	2.72	4.40	<0.05	0.02	0.01	0.017	0.04	19.6	27.9	0.40	208	0.31	0.01
JNL017 23+50W		1.04	32.7	4.00	5.08	0.06	0.10	0.01	0.027	0.04	24.5	46.3	0.62	276	0.42	0.01
JNL017 24+00W		1.17	6.4	0.94	2.42	<0.05	<0.02	0.04	0.008	0.03	7.6	1.7	0.03	64	0.47	0.01
JNL017 24+50W		1.20	23.3	3.48	5.06	0.05	0.07	0.02	0.022	0.03	21.9	40.6	0.55	305	0.50	0.01
JNL017 25+00W		1.68	25.0	3.44	6.51	0.05	0.02	0.03	0.026	0.04	21.5	39.9	0.54	278	0.75	0.01
LJJND001		0.33	4.7	7.79	0.55	0.05	0.02	<0.01	<0.005	0.01	2.2	0.9	0.07	12000	0.29	0.01
LJJND002		3.38	121.0	11.10	0.92	0.05	0.10	0.07	0.064	0.01	7.8	4.3	0.02	1300	0.38	0.01
RZJND001a		8.13	849	7.75	10.10	0.15	0.05	0.03	0.337	0.21	48.2	43.2	0.62	1110	1.14	0.02
RZJND001b		1.82	53.0	4.92	2.11	0.07	0.04	0.01	0.039	0.04	28.7	1.4	0.02	160	0.47	0.01
RZJND002		2.04	58.9	13.25	1.65	0.07	0.04	0.03	0.028	0.05	23.3	3.6	0.03	466	0.61	0.01
RZJND003		0.91	30.4	14.10	2.91	0.10	0.11	0.01	0.021	0.04	26.5	24.1	0.35	8320	0.64	0.01
RZJND004		1.68	40.2	10.05	1.93	0.07	0.02	0.02	0.017	0.06	19.4	3.1	0.04	397	0.35	0.01
RZJND005		1.62	40.2	7.29	2.37	0.07	0.08	0.05	0.026	0.07	23.1	8.6	0.10	467	0.52	0.01
RZJND006		0.60	12.9	49.2	0.96	0.14	0.07	<0.01	0.010	0.02	4.2	1.0	0.02	2530	0.21	0.01
RZJND007		1.36	27.1	3.57	3.11	0.06	<0.02	0.02	0.059	0.04	25.5	15.6	0.21	162	0.87	0.01
RZJND008		2.02	21.0	3.52	4.55	0.06	0.04	0.02	0.052	0.07	24.4	29.1	0.66	477	1.45	0.01
RZJND009		2.09	21.4	4.20	4.79	0.05	0.06	0.03	0.043	0.08	15.7	24.4	0.90	1060	2.15	0.01
RZJND010		3.37	16.5	2.44	4.65	0.05	<0.02	0.03	0.030	0.06	16.8	13.7	0.21	169	1.68	0.01
VFL001 00+00		0.64	32.8	3.61	4.09	0.07	0.16	0.03	0.032	0.02	11.9	57.4	0.87	255	0.53	0.01
VFL001 00+50E		0.81	61.4	5.12	3.80	0.07	0.15	0.06	0.037	0.02	10.5	54.1	0.81	395	0.60	0.01
VFL001 01+00E		1.57	34.0	4.09	2.44	<0.05	0.09	0.02	0.191	0.04	13.5	24.3	0.36	504	0.42	0.01
VFL001 01+50E		1.35	30.4	3.82	4.78	<0.05	0.08	0.04	0.027	0.05	10.2	30.9	0.44	698	0.66	0.01
VFL001 02+00E		1.10	22.7	4.37	5.18	<0.05	0.04	0.04	0.028	0.05	13.0	26.4	0.39	702	0.73	0.01
VFL001 02+50E		0.92	23.6	3.77	4.72	0.07	0.03	<0.01	0.024	0.04	27.0	41.1	0.54	396	0.73	0.01
VFL001 03+00E		0.95	24.0	3.80	4.62	0.05	0.08	0.03	0.020	0.03	20.2	37.9	0.50	837	0.69	0.01
VFL001 03+50E		1.26	30.9	3.62	4.54	<0.05	0.05	0.04	0.018	0.04	11.4	11.5	0.16	539	0.75	0.01
VFL001 04+00E		1.33	23.2	3.34	4.87	<0.05	0.03	0.04	0.017	0.04	12.4	17.8	0.25	503	0.85	0.01
VFL001 04+50E		1.32	25.8	3.18	4.55	<0.05	0.10	0.06	0.017	0.04	9.0	25.7	0.30	747	0.64	0.01
VFL001 05+00E		1.16	21.4	2.94	4.14	<0.05	<0.02	0.04	0.013	0.05	6.4	20.4	0.28	578	0.53	0.01
VFL001 05+50E		1.21	25.0	3.45	4.18	<0.05	0.05	0.02	0.023	0.04	8.9	33.8	0.48	902	0.55	0.01
VFL001 06+00E		1.51	17.6	3.82	3.22	<0.05	<0.02	0.03	0.017	0.04	11.9	6.1	0.11	270	1.25	0.01
VFL001 06+50E		3.31	39.5	4.42	3.98	<0.05	0.03	0.01	0.015	0.04	9.6	27.0	0.53	305	0.44	0.01
VFL001 07+00E		1.26	25.6	2.56	2.07	<0.05	<0.02	0.02	0.015	0.04	16.8	13.7	0.27	648	0.54	0.01
VFL001 07+50E		1.35	31.7	3.80	3.10	<0.05	0.03	0.04	0.017	0.03	6.2	18.9	0.35	417	0.48	0.01
VFL001 08+00E		1.03	44.5	4.67	2.48	<0.05	<0.02	0.02	0.023	0.03	10.1	16.3	0.33	457	0.55	0.01
VFL002 00+00		0.98	26.8	4.42	4.04	<0.05	0.04	0.03	0.023	0.03	14.4	27.7	0.36	532	0.63	0.01
VFL002 00+25W		1.10	16.0	2.88	4.63	<0.05	0.02	0.01	0.010	0.03	14.4	16.5	0.24	166	0.68	0.01
VFL002 00+50W		4.68	30.2	3.83	3.96	<0.05	0.13	0.06	0.028	0.05	13.4	31.1	0.33	912	0.88	0.01
VFL002 00+75W		1.11	27.4	4.24	3.65	0.07	0.02	0.02	0.023	0.04	25.0	38.9	0.37	408	0.50	0.01
VFL002 00+00W		0.78	27.5	4.13	3.94	0.06	0.07	0.06	0.021	0.05	23.2	40.9	0.48	352	0.66	0.01

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
JNL017 23+00W		0.19	18.8	620	17.3	4.2	<0.001	0.02	0.89	0.4	0.2	0.2	7.4	<0.01	0.04	1.1
JNL017 23+50W		0.18	31.8	440	42.5	4.9	<0.001	0.01	1.93	1.3	0.6	0.2	6.8	<0.01	0.03	7.2
JNL017 24+00W		0.17	2.7	1040	12.3	4.4	<0.001	0.03	0.42	<0.1	0.4	0.3	5.2	<0.01	<0.01	<0.2
JNL017 24+50W		0.21	25.2	570	30.4	5.1	0.001	0.02	1.50	0.9	0.5	0.2	3.8	<0.01	0.04	4.1
JNL017 25+00W		0.58	24.1	570	28.8	7.0	<0.001	0.03	1.57	0.6	0.4	0.5	5.2	<0.01	0.04	1.2
LJJND001		0.06	146.0	350	7.4	1.2	<0.001	0.09	2.21	0.6	0.2	<0.2	135.5	<0.01	0.01	0.4
LJJND002		0.06	138.0	3450	8.8	1.7	0.001	0.03	2.95	6.5	1.8	0.3	147.0	<0.01	0.03	3.5
RZJND001a		1.40	51.8	690	89.0	34.5	0.001	0.07	2.84	6.4	2.1	5.6	71.5	0.01	0.22	17.3
RZJND001b		0.18	18.7	800	52.8	3.6	<0.001	0.04	2.40	1.8	0.7	0.3	10.0	<0.01	0.02	19.6
RZJND002		0.16	29.3	730	37.6	4.6	<0.001	0.06	1.70	2.1	1.1	0.4	4.9	<0.01	0.02	12.6
RZJND003		0.12	217	430	41.2	3.0	0.001	0.01	1.83	1.6	0.4	0.3	19.1	<0.01	0.03	11.5
RZJND004		0.12	46.8	800	24.9	4.9	0.001	0.29	1.31	2.7	0.9	0.3	4.5	<0.01	0.02	15.8
RZJND005		0.20	25.4	710	45.3	6.1	0.001	0.04	1.70	2.7	0.8	0.5	6.6	<0.01	0.02	13.4
RZJND006		0.13	40.7	620	19.8	2.3	<0.001	0.15	0.46	0.7	0.4	<0.2	2.7	<0.01	<0.01	1.8
RZJND007		0.29	16.2	720	80.6	5.8	0.001	0.01	3.60	2.1	0.9	0.5	28.7	<0.01	0.05	5.9
RZJND008		0.37	23.2	770	30.5	11.5	0.001	0.02	1.73	2.4	0.8	1.0	17.1	<0.01	0.04	4.9
RZJND009		0.54	19.7	1040	42.3	12.5	<0.001	0.02	2.59	1.8	1.0	0.8	8.9	<0.01	0.03	3.3
RZJND010		0.40	10.5	990	24.6	14.7	0.001	0.05	1.07	0.2	0.6	1.3	5.2	<0.01	0.04	0.2
VFL001 00+00		0.10	35.6	360	35.1	1.8	<0.001	0.04	2.17	3.4	1.0	<0.2	21.5	<0.01	0.04	8.3
VFL001 00+50E		0.10	58.9	360	50.6	1.7	<0.001	0.03	0.60	4.2	1.1	0.2	13.8	<0.01	0.05	10.1
VFL001 01+00E		0.12	35.9	500	508	3.2	<0.001	0.03	4.06	2.8	1.0	0.5	19.7	<0.01	0.03	7.8
VFL001 01+50E		0.33	21.6	1020	77.0	7.1	<0.001	0.08	1.44	0.9	0.6	0.3	5.7	<0.01	0.08	3.1
VFL001 02+00E		0.56	20.1	1310	80.7	6.9	<0.001	0.11	1.56	0.4	0.6	0.4	6.9	<0.01	0.02	1.0
VFL001 02+50E		0.60	27.0	550	52.6	5.1	<0.001	0.03	1.10	1.0	0.8	0.3	9.2	<0.01	0.03	3.5
VFL001 03+00E		0.33	24.8	900	41.0	5.0	0.001	0.06	0.60	1.1	0.5	0.2	21.6	<0.01	0.02	3.3
VFL001 03+50E		0.30	16.8	1670	30.7	6.5	<0.001	0.10	0.74	0.4	0.9	0.3	5.0	<0.01	0.06	1.2
VFL001 04+00E		0.36	16.1	1190	28.2	7.1	<0.001	0.08	0.60	0.3	0.5	0.4	5.1	<0.01	0.06	0.6
VFL001 04+50E		0.34	16.3	1370	33.1	6.9	<0.001	0.09	0.53	0.6	1.1	0.2	3.8	<0.01	0.03	2.1
VFL001 05+00E		0.28	13.9	1580	27.1	6.5	0.002	0.13	0.42	0.1	0.6	0.2	5.1	<0.01	0.04	0.3
VFL001 05+50E		0.27	22.9	1150	35.1	6.7	0.001	0.08	0.80	0.7	0.4	0.2	12.5	<0.01	0.07	1.7
VFL001 06+00E		0.29	20.0	880	29.1	5.6	0.001	0.07	1.66	0.3	0.6	0.4	5.3	<0.01	0.03	0.5
VFL001 06+50E		0.15	46.2	480	18.9	4.1	<0.001	0.03	0.63	1.3	0.6	0.2	6.5	<0.01	0.03	8.6
VFL001 07+00E		0.16	19.8	440	20.8	3.2	0.001	0.02	0.74	1.3	0.6	0.2	6.5	<0.01	0.03	6.3
VFL001 07+50E		0.14	29.6	680	28.2	4.1	0.001	0.04	0.72	1.0	0.7	0.2	6.3	<0.01	0.04	6.9
VFL001 08+00E		0.10	34.4	550	31.3	2.5	0.001	0.03	1.10	1.2	0.7	0.5	7.6	<0.01	0.04	9.3
VFL002 00+00		0.38	27.9	830	41.3	3.5	<0.001	0.03	1.04	1.5	0.7	0.3	8.1	<0.01	0.03	4.4
VFL002 00+25W		0.35	17.4	620	15.3	5.8	0.001	0.02	0.83	0.7	0.3	0.3	4.6	<0.01	0.03	2.2
VFL002 00+50W		0.25	26.7	1320	54.9	8.0	<0.001	0.08	1.51	2.4	1.1	0.3	50.9	<0.01	0.04	4.9
VFL002 00+75W		0.20	29.6	320	47.3	5.0	<0.001	0.01	2.42	1.6	0.3	0.2	6.3	<0.01	0.04	8.4
VFL002 00+00W		0.13	31.1	530	46.0	4.2	0.001	0.01	2.81	2.0	0.5	0.2	16.5	<0.01	0.02	10.4

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

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method Analyte Units LOR	ME- MS41 Ti % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	Au- AROR43 Au ppm 0.01
JNL017 23+00W		0.007	0.07	0.54	15	0.12	2.64	53	0.5	
JNL017 23+50W		<0.005	0.05	0.77	14	0.07	3.47	99	2.7	
JNL017 24+00W		<0.005	0.05	0.39	11	0.05	0.83	12	<0.5	
JNL017 24+50W		<0.005	0.04	0.70	14	<0.05	2.22	77	2.0	
JNL017 25+00W		0.012	0.05	0.82	20	0.08	2.46	72	0.7	
LJJND001		<0.005	2.70	2.13	2	0.37	3.32	131	0.6	
LJJND002		<0.005	0.88	15.40	125	0.24	16.20	657	5.4	
RZJND001a		0.042	0.47	5.85	33	4.21	25.1	137	2.1	
RZJND001b		<0.005	0.20	1.51	9	0.19	3.26	69	1.8	
RZJND002		<0.005	0.48	3.20	8	0.25	4.89	172	0.9	
RZJND003		<0.005	0.07	1.26	10	0.09	5.63	140	6.1	
RZJND004		<0.005	0.78	1.39	14	0.69	8.64	144	1.0	
RZJND005		<0.005	1.55	3.63	14	0.49	4.94	98	0.8	
RZJND006		0.005	0.78	0.43	7	<0.05	3.91	523	2.5	
RZJND007		0.006	0.18	3.66	16	0.53	5.62	91	<0.5	
RZJND008		0.006	0.15	0.79	29	3.58	7.18	132	0.9	
RZJND009		0.009	0.14	0.70	33	0.22	4.10	141	1.4	
RZJND010		0.007	0.23	0.91	28	0.83	2.92	55	<0.5	
VFL001 00+00		<0.005	0.03	0.93	11	<0.05	11.55	104	5.1	
VFL001 00+50E		<0.005	0.09	1.22	11	<0.05	14.05	117	6.5	
VFL001 01+00E		<0.005	0.05	0.98	10	<0.05	9.49	598	3.3	
VFL001 01+50E		0.006	0.06	0.87	18	0.06	2.95	128	2.2	
VFL001 02+00E		0.011	0.07	0.87	23	0.11	2.56	112	1.4	
VFL001 02+50E		0.020	0.05	0.87	22	0.17	4.04	115	0.9	
VFL001 03+00E		0.009	0.07	0.89	18	0.12	4.41	90	2.0	
VFL001 03+50E		<0.005	0.07	0.90	19	0.08	2.61	92	1.5	
VFL001 04+00E		0.007	0.11	0.84	26	0.15	2.49	69	0.7	
VFL001 04+50E		0.006	0.06	0.89	16	0.06	2.52	66	3.0	
VFL001 05+00E		<0.005	0.07	1.02	16	0.05	2.40	64	<0.5	
VFL001 05+50E		0.006	0.05	0.85	17	0.05	3.52	90	1.1	
VFL001 06+00E		0.008	0.12	0.79	20	0.16	2.41	61	<0.5	
VFL001 06+50E		<0.005	0.08	1.18	15	<0.05	3.25	84	0.7	
VFL001 07+00E		<0.005	0.09	0.85	10	0.14	3.11	56	<0.5	
VFL001 07+50E		<0.005	0.08	1.10	12	0.08	2.45	93	1.0	
VFL001 08+00E		<0.005	0.17	1.48	12	0.12	3.15	116	<0.5	
VFL002 00+00		0.008	0.05	1.20	17	0.09	4.93	85	1.4	
VFL002 00+25W		0.006	0.04	0.51	17	0.09	1.62	54	0.7	
VFL002 00+50W		<0.005	0.07	8.60	14	0.17	10.10	115	3.7	
VFL002 00+75W		<0.005	0.06	0.93	14	0.08	3.74	98	0.8	
VFL002 00+00W		<0.005	0.05	2.46	13	0.07	5.43	112	2.1	

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
VFL002 01+25W		0.43	0.0034	0.34	1.45	51.9	<0.2	<10	70	0.54	0.39	0.38	0.17	37.1	11.2	18
VFL002 01+50W		0.38	0.0016	0.13	1.33	38.5	<0.2	<10	50	0.41	0.32	0.69	0.15	27.2	8.8	14
VFL002 01+75W		0.58	0.0023	0.16	1.24	53.4	<0.2	<10	30	0.42	0.26	1.24	0.28	24.3	8.3	15
VFL002 02+00W		0.47	0.0017	0.07	1.17	78.8	<0.2	<10	30	0.38	0.34	0.32	0.16	33.1	12.2	18
VFL002 02+25W		0.61	0.0020	0.04	1.41	37.4	<0.2	<10	40	0.39	0.36	0.04	0.29	45.8	12.2	19
VFL002 02+50W		0.44	0.0022	0.23	1.32	98.9	<0.2	<10	20	0.47	0.69	0.16	0.72	38.8	16.5	19
VFL002 02+75W		0.41	0.0037	0.50	1.34	149.5	<0.2	<10	20	0.44	0.29	0.86	0.54	23.2	8.3	19
VFL002 03+00W		0.45	0.0061	0.45	1.02	99.8	<0.2	<10	20	0.37	0.33	0.48	1.54	21.8	9.8	14
VFL002 03+25W		0.44	0.0043	0.36	1.48	76.6	<0.2	<10	30	0.48	0.32	0.38	0.50	27.8	12.9	19
VFL002 03+50W		0.52	0.0013	0.08	0.88	43.5	<0.2	<10	30	0.23	0.42	0.02	0.09	34.2	10.0	15
VFL002 03+75W		0.39	0.0012	0.18	1.37	51.3	<0.2	<10	40	0.24	0.45	0.01	0.10	41.2	8.9	20
VFL002 04+00W		0.44	0.0021	0.17	1.14	67.6	<0.2	<10	30	0.34	0.53	0.02	0.14	35.9	10.6	18
VFL002 04+25W		0.53	0.0014	0.20	1.60	23.6	<0.2	<10	40	0.73	0.37	0.04	0.29	40.5	14.5	19
VFL002 04+50W		0.52	0.0012	0.15	1.17	18.9	<0.2	<10	40	0.37	0.36	0.04	0.26	41.2	7.6	15
VFL002 04+75W		0.54	0.0037	0.12	1.26	44.8	<0.2	<10	40	0.41	0.36	0.21	0.26	42.8	13.1	18
VFL002 05+00W		0.50	0.0009	0.10	1.12	14.8	<0.2	<10	50	0.48	0.36	0.19	0.30	40.7	8.9	14
VFL002 05+25W		0.46	0.0018	0.07	1.29	38.4	<0.2	<10	30	0.30	0.36	0.06	0.12	39.6	8.2	17
VFL002 05+50W		0.46	0.0019	0.11	1.42	38.7	<0.2	<10	60	0.47	0.35	0.26	0.15	34.8	10.1	18
VFL002 05+75W		0.44	0.0022	0.16	1.35	41.7	<0.2	<10	60	0.37	0.39	0.10	0.13	38.5	9.7	18
VFL002 06+00W		0.49	0.0018	0.08	1.24	38.5	<0.2	<10	50	0.36	0.36	0.22	0.13	39.7	9.2	16
VFL002 06+25W		0.50	0.0019	0.06	1.31	40.3	<0.2	<10	40	0.37	0.35	0.06	0.19	49.7	10.2	17
VFL002 06+50W		0.53	0.0021	0.14	1.26	29.1	<0.2	<10	60	0.51	0.32	0.41	0.26	37.5	9.7	16
VFL002 06+75W		0.31	0.0047	0.52	1.68	55.4	<0.2	<10	120	1.02	0.34	1.42	0.24	26.1	9.7	11
VFL002 07+00W		0.52	0.0018	0.17	1.41	37.9	<0.2	<10	40	0.43	0.36	0.04	0.16	45.4	9.6	17
VFL002 07+25W		0.38	0.0014	0.09	1.25	34.1	<0.2	<10	40	0.24	0.38	0.02	0.12	37.4	8.7	16
VFL002 07+50W		0.54	0.0014	0.04	1.08	35.0	<0.2	<10	40	0.24	0.42	0.02	0.09	49.4	7.5	12
VFL002 07+75W		0.45	0.0016	0.06	1.37	29.3	<0.2	<10	30	0.33	0.33	0.02	0.12	40.6	7.7	18
VFL002 08+00W		0.45	0.0012	0.10	1.59	23.3	<0.2	<10	40	0.29	0.41	0.02	0.09	46.7	7.6	21
VFL002 08+25W		0.45	0.0007	0.09	1.33	41.9	<0.2	<10	40	0.21	0.48	0.01	0.10	44.6	7.7	17
VFL002 08+50W		0.39	0.0013	0.12	1.51	30.8	<0.2	<10	60	0.45	0.37	0.32	0.23	45.0	9.7	17
VFL002 08+75W		0.53	0.0012	0.11	1.37	29.2	<0.2	<10	30	0.29	0.39	0.02	0.11	40.5	7.6	16
VFL002 09+00W		0.54	0.0025	0.14	1.49	29.3	<0.2	<10	40	0.54	0.31	0.39	0.37	48.4	9.9	16
VFL003 00+00		0.48	0.0025	0.13	1.10	13.2	<0.2	<10	20	0.46	0.44	0.30	0.10	34.0	14.3	15
VFL003 00+50S		0.39	0.0014	0.30	1.60	25.4	<0.2	<10	60	0.84	0.63	0.46	0.12	17.65	29.4	17
VFL003 01+00S		0.41	0.0010	0.15	1.09	10.1	<0.2	<10	30	0.47	0.42	0.32	0.12	15.85	15.9	12
VFL003 01+50S		0.55	0.0010	0.17	1.32	12.1	<0.2	<10	30	0.51	0.71	0.48	0.08	20.3	15.3	12
VFL003 02+00S		0.44	0.0003	0.04	0.62	1.7	<0.2	<10	30	0.17	0.14	0.05	0.05	10.85	3.7	6
VFL003 02+50S		0.54	0.0017	0.16	0.19	11.8	<0.2	<10	20	0.26	0.41	0.04	0.09	54.4	8.4	6
VFL003 03+00S		0.48	0.0004	0.03	0.58	6.1	<0.2	<10	50	0.39	0.41	0.34	0.03	37.7	5.2	9
VFL003 03+50S		0.41	0.0002	0.06	0.49	4.0	<0.2	<10	20	0.15	0.20	0.09	0.02	10.95	1.6	3

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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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
VFL002 01+25W		1.08	24.0	3.42	4.59	0.05	0.06	0.05	0.023	0.05	18.6	35.4	0.32	768	0.48	0.01
VFL002 01+50W		0.85	14.4	2.82	3.90	<0.05	0.06	0.03	0.021	0.04	14.2	32.2	0.32	290	0.38	0.02
VFL002 01+75W		0.51	18.7	2.62	3.09	0.05	0.08	0.06	0.012	0.04	11.9	25.6	0.33	228	0.49	0.02
VFL002 02+00W		0.66	18.0	3.52	3.41	0.05	0.07	0.03	0.020	0.04	16.7	30.8	0.39	422	0.48	0.01
VFL002 02+25W		0.77	23.0	3.76	4.62	0.06	0.03	0.03	0.017	0.04	23.9	40.6	0.46	372	0.38	0.01
VFL002 02+50W		0.69	24.8	3.86	4.22	0.06	0.07	0.03	0.025	0.04	18.2	38.2	0.42	474	0.61	0.01
VFL002 02+75W		0.98	21.6	3.22	3.85	0.05	0.15	0.06	0.044	0.03	12.8	42.1	0.57	242	0.37	0.01
VFL002 03+00W		1.20	27.0	3.92	3.61	<0.05	0.08	0.05	0.181	0.04	11.5	20.8	0.29	632	0.87	0.01
VFL002 03+25W		0.63	26.8	3.81	3.92	0.05	0.13	0.04	0.045	0.03	14.4	49.1	0.65	433	0.51	0.01
VFL002 03+50W		1.24	18.9	3.74	4.35	<0.05	0.03	0.03	0.019	0.05	17.8	13.5	0.20	631	0.53	0.01
VFL002 03+75W		1.01	20.0	4.83	5.48	0.06	0.03	0.05	0.021	0.05	21.3	24.4	0.34	262	0.44	0.01
VFL002 04+00W		0.88	21.7	4.38	3.56	<0.05	0.02	0.02	0.020	0.05	17.7	26.6	0.29	356	0.39	0.01
VFL002 04+25W		0.93	23.3	4.22	4.19	0.05	0.05	0.03	0.028	0.05	20.0	41.8	0.40	813	0.47	0.01
VFL002 04+50W		0.90	16.7	3.27	4.64	0.05	0.02	0.03	0.019	0.05	21.8	22.4	0.27	305	0.43	0.01
VFL002 04+75W		0.47	24.7	3.78	3.59	0.05	0.02	0.03	0.017	0.04	23.2	33.2	0.42	484	0.27	0.01
VFL002 05+00W		1.07	16.7	3.09	4.90	0.05	0.02	0.03	0.018	0.05	20.6	18.1	0.24	420	0.56	0.01
VFL002 05+25W		0.68	17.7	3.88	4.58	0.05	<0.02	0.02	0.018	0.05	20.5	25.7	0.36	259	0.38	0.01
VFL002 05+50W		0.79	18.4	3.66	3.96	0.05	0.05	0.03	0.019	0.04	18.5	34.9	0.40	506	0.36	0.01
VFL002 05+75W		0.93	20.0	3.96	4.56	0.05	0.02	0.01	0.019	0.06	20.7	30.8	0.33	329	0.40	0.01
VFL002 06+00W		0.80	16.8	3.50	4.14	0.05	0.02	0.02	0.017	0.05	20.9	32.6	0.33	353	0.39	0.01
VFL002 06+25W		0.84	19.7	3.64	4.31	0.07	0.03	0.01	0.018	0.05	25.9	36.9	0.37	363	0.35	0.01
VFL002 06+50W		0.78	19.2	3.33	3.72	0.05	0.05	0.04	0.020	0.05	19.9	29.8	0.36	442	0.42	0.01
VFL002 06+75W		2.32	32.6	3.37	3.09	0.06	0.10	0.09	0.028	0.07	17.1	13.1	0.15	960	0.40	0.02
VFL002 07+00W		0.79	22.5	3.94	3.99	0.05	0.03	0.02	0.020	0.04	24.2	37.7	0.39	297	0.40	0.01
VFL002 07+25W		0.89	18.3	4.19	4.10	<0.05	0.03	0.02	0.021	0.05	19.6	20.4	0.27	619	0.38	0.01
VFL002 07+50W		1.06	16.8	3.74	5.98	0.05	0.02	0.01	0.019	0.05	26.2	14.6	0.20	267	0.46	0.01
VFL002 07+75W		0.88	20.0	4.17	4.69	0.05	0.02	0.02	0.022	0.05	21.6	25.2	0.32	226	0.46	0.01
VFL002 08+00W		1.26	18.1	5.20	6.65	0.07	<0.02	0.02	0.025	0.05	23.7	22.4	0.32	243	0.73	0.01
VFL002 08+25W		1.13	18.9	4.97	6.08	0.06	<0.02	0.04	0.022	0.05	23.3	16.7	0.25	204	0.56	0.01
VFL002 08+50W		1.19	22.3	4.16	4.82	0.05	0.02	0.03	0.024	0.06	22.8	20.7	0.30	394	0.52	0.01
VFL002 08+75W		1.05	21.2	3.95	4.58	0.05	0.04	0.03	0.021	0.04	20.1	17.6	0.22	233	0.59	0.01
VFL002 09+00W		0.77	22.9	4.19	3.57	0.05	0.07	0.02	0.042	0.04	19.7	22.5	0.39	338	0.49	0.01
VFL003 00+00		1.20	23.8	3.58	3.03	0.06	0.08	0.02	0.021	0.05	17.3	34.8	0.43	607	0.35	0.01
VFL003 00+50S		2.03	45.4	4.05	3.91	<0.05	0.15	0.03	0.037	0.05	9.9	48.9	0.49	721	0.44	0.01
VFL003 01+00S		0.83	26.6	2.92	3.26	<0.05	0.10	0.03	0.024	0.03	7.6	35.7	0.37	690	0.40	0.02
VFL003 01+50S		1.12	27.2	3.16	3.39	<0.05	0.09	0.02	0.024	0.04	9.5	36.5	0.35	503	0.39	0.02
VFL003 02+00S		0.72	9.7	1.12	2.50	<0.05	<0.02	0.03	0.009	0.02	5.4	6.6	0.07	192	0.36	0.02
VFL003 02+50S		0.91	23.6	2.50	0.83	0.05	0.10	0.02	0.019	0.03	28.4	2.4	0.02	176	0.32	<0.01
VFL003 03+00S		1.07	10.3	2.88	1.83	<0.05	0.04	0.01	0.022	0.03	20.2	6.2	0.06	110	0.57	0.01
VFL003 03+50S		0.81	4.4	1.06	2.05	<0.05	<0.02	0.01	0.010	0.03	5.7	3.0	0.04	64	0.26	0.02

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

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
VFL002 01+25W		0.18	24.2	680	46.7	8.3	<0.001	0.03	1.10	1.5	0.7	0.3	30.8	<0.01	0.03	5.4
VFL002 01+50W		0.26	17.6	720	36.5	6.4	<0.001	0.05	0.79	1.2	0.9	0.2	51.0	<0.01	0.04	3.0
VFL002 01+75W		0.24	20.1	590	32.3	5.0	0.001	0.10	0.87	1.2	1.2	0.2	83.9	<0.01	0.02	2.5
VFL002 02+00W		0.22	25.7	400	31.9	4.5	<0.001	0.03	0.99	1.7	0.8	0.2	25.2	<0.01	0.03	5.2
VFL002 02+25W		0.21	27.1	470	38.6	5.6	<0.001	0.01	1.16	1.2	0.5	0.2	7.9	<0.01	0.03	5.3
VFL002 02+50W		0.16	28.7	560	77.5	5.8	<0.001	0.03	1.62	1.5	0.7	1.3	18.7	<0.01	0.03	6.0
VFL002 02+75W		0.10	24.9	710	78.4	5.8	0.001	0.08	1.71	2.1	1.7	0.4	63.0	<0.01	0.04	3.7
VFL002 03+00W		0.14	22.8	760	261	8.2	0.001	0.06	3.99	1.1	0.6	1.2	43.1	<0.01	0.06	3.9
VFL002 03+25W		0.08	31.2	560	94.7	3.3	0.001	0.03	2.16	2.5	1.0	0.4	26.5	<0.01	0.04	6.2
VFL002 03+50W		0.27	19.3	1010	36.7	10.2	<0.001	0.02	1.11	0.5	0.3	0.5	5.0	<0.01	0.04	1.3
VFL002 03+75W		0.39	23.5	710	29.4	8.6	<0.001	0.03	1.24	0.9	0.5	0.3	4.6	<0.01	0.04	3.6
VFL002 04+00W		0.18	25.9	590	46.8	6.5	0.001	0.02	1.49	1.1	0.4	0.3	6.8	<0.01	0.04	5.0
VFL002 04+25W		0.22	26.7	910	56.1	6.5	<0.001	0.03	1.46	1.3	0.4	0.6	7.3	<0.01	0.04	4.1
VFL002 04+50W		0.28	18.5	810	31.9	7.6	<0.001	0.02	1.14	0.9	0.2	0.7	7.3	<0.01	0.02	2.5
VFL002 04+75W		0.10	28.6	440	39.9	3.5	<0.001	0.01	1.28	1.6	0.4	0.2	17.2	<0.01	0.02	8.8
VFL002 05+00W		0.52	15.9	660	32.0	9.3	<0.001	0.03	1.15	1.0	0.7	0.5	12.8	<0.01	0.02	1.7
VFL002 05+25W		0.23	21.9	470	27.9	6.7	<0.001	0.02	1.00	0.9	0.5	0.3	7.8	<0.01	0.01	4.5
VFL002 05+50W		0.17	24.2	510	31.0	6.3	<0.001	0.02	0.96	1.2	0.4	0.3	23.9	<0.01	0.04	5.7
VFL002 05+75W		0.25	22.6	580	31.0	7.9	<0.001	0.02	1.07	1.0	0.3	0.3	12.3	<0.01	0.03	4.5
VFL002 06+00W		0.18	22.2	430	25.6	8.9	0.001	0.02	1.03	1.1	0.2	0.4	20.8	<0.01	0.03	5.4
VFL002 06+25W		0.18	25.1	300	34.0	6.1	<0.001	0.02	1.09	1.3	0.3	0.4	8.6	<0.01	0.04	7.9
VFL002 06+50W		0.22	23.6	570	42.1	8.7	<0.001	0.04	1.09	1.3	0.4	0.4	30.9	<0.01	0.02	4.6
VFL002 06+75W		0.25	22.6	1500	79.6	12.7	0.001	0.11	1.65	2.0	1.1	0.4	101.0	<0.01	0.02	3.1
VFL002 07+00W		0.11	25.1	450	32.3	7.2	<0.001	0.02	1.07	1.2	0.5	0.2	6.6	<0.01	0.02	6.6
VFL002 07+25W		0.15	19.7	650	61.9	7.9	<0.001	0.03	1.55	0.9	0.2	0.2	5.2	<0.01	0.03	5.1
VFL002 07+50W		0.45	17.4	440	26.0	11.4	<0.001	0.02	1.41	0.9	0.3	0.4	5.4	<0.01	0.03	3.5
VFL002 07+75W		0.39	20.9	460	38.8	8.5	<0.001	0.02	1.05	1.0	0.3	0.3	5.2	<0.01	0.05	4.5
VFL002 08+00W		1.04	18.9	630	31.8	10.5	<0.001	0.02	1.04	1.2	0.6	0.5	5.8	<0.01	0.04	3.7
VFL002 08+25W		0.64	18.6	530	37.3	8.1	<0.001	0.02	1.19	1.1	0.5	0.4	5.4	<0.01	0.04	4.5
VFL002 08+50W		0.42	21.9	570	44.4	9.4	<0.001	0.02	1.05	1.5	0.2	0.4	25.9	<0.01	0.04	4.0
VFL002 08+75W		0.29	18.2	770	43.6	9.8	<0.001	0.03	1.20	0.9	0.3	0.5	4.7	<0.01	0.03	3.5
VFL002 09+00W		0.19	29.3	790	47.2	6.7	0.001	0.04	1.49	1.6	0.9	0.3	27.1	<0.01	0.03	5.2
VFL003 00+00		0.06	26.1	520	39.8	5.3	<0.001	0.05	0.98	1.6	0.4	0.4	26.7	<0.01	0.02	7.5
VFL003 00+50S		0.12	40.0	520	62.5	4.8	<0.001	0.04	1.45	2.6	1.1	0.4	51.2	<0.01	0.02	8.1
VFL003 01+00S		0.20	23.5	760	35.2	2.8	0.001	0.07	0.93	1.6	0.5	0.3	27.4	<0.01	0.02	2.8
VFL003 01+50S		0.21	26.4	670	46.1	3.9	<0.001	0.05	0.79	1.5	0.6	0.3	46.9	<0.01	0.03	3.7
VFL003 02+00S		0.23	5.5	590	8.3	2.3	<0.001	0.04	0.13	0.2	0.2	0.4	6.7	<0.01	<0.01	0.3
VFL003 02+50S		<0.05	19.0	440	35.5	2.2	<0.001	0.04	1.32	1.6	0.3	0.2	23.5	<0.01	0.01	14.9
VFL003 03+00S		0.19	9.9	320	26.8	5.8	<0.001	0.02	0.49	1.2	<0.2	0.3	35.4	<0.01	0.02	6.5
VFL003 03+50S		0.31	3.2	540	14.6	3.3	0.001	0.03	0.21	0.4	<0.2	0.2	8.3	<0.01	<0.01	0.7

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method Analyte Units LOR	ME- MS41 Ti % 0.005	ME- MS41 Tl ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	Au- AROR43 Au ppm 0.01
VFL002 01+25W		<0.005	0.09	2.53	15	0.10	5.78	83	1.5	
VFL002 01+50W		0.005	0.06	3.35	13	0.07	4.82	63	1.5	
VFL002 01+75W		0.006	0.04	5.19	10	0.06	6.48	69	2.5	
VFL002 02+00W		<0.005	0.04	3.28	13	0.08	4.87	86	1.9	
VFL002 02+25W		0.005	0.05	0.77	15	0.07	3.25	103	0.8	
VFL002 02+50W		<0.005	0.04	1.75	12	0.07	4.56	124	2.0	
VFL002 02+75W		<0.005	0.04	3.20	11	<0.05	9.59	155	4.1	
VFL002 03+00W		<0.005	0.05	3.21	12	<0.05	4.00	495	2.4	
VFL002 03+25W		<0.005	0.04	3.20	12	<0.05	9.95	171	3.7	
VFL002 03+50W		0.006	0.06	0.60	18	0.13	2.11	73	0.6	
VFL002 03+75W		0.005	0.06	0.64	18	0.11	2.58	75	0.6	
VFL002 04+00W		<0.005	0.07	0.73	15	0.13	3.16	90	<0.5	
VFL002 04+25W		0.005	0.05	0.96	13	0.07	6.26	107	1.1	
VFL002 04+50W		0.007	0.05	0.71	15	0.12	3.51	79	0.7	
VFL002 04+75W		<0.005	0.04	0.78	12	0.13	5.50	105	1.0	
VFL002 05+00W		0.016	0.06	1.03	19	0.10	6.80	89	0.7	
VFL002 05+25W		0.005	0.04	0.70	15	0.09	2.86	83	0.5	
VFL002 05+50W		<0.005	0.06	1.15	14	0.08	4.02	88	1.5	
VFL002 05+75W		<0.005	0.07	0.69	16	0.10	2.74	87	0.5	
VFL002 06+00W		<0.005	0.06	0.80	13	0.09	3.28	84	0.7	
VFL002 06+25W		<0.005	0.06	0.81	14	0.08	3.59	101	0.8	
VFL002 06+50W		0.005	0.05	1.72	12	0.08	5.34	98	1.5	
VFL002 06+75W		<0.005	0.15	2.45	10	0.05	27.5	111	2.9	
VFL002 07+00W		<0.005	0.05	0.76	12	0.07	4.35	90	1.0	
VFL002 07+25W		<0.005	0.07	0.60	13	0.06	2.21	86	0.9	
VFL002 07+50W		0.008	0.07	0.56	20	0.09	2.46	67	<0.5	
VFL002 07+75W		0.007	0.06	0.65	16	0.08	2.43	74	0.7	
VFL002 08+00W		0.016	0.07	0.67	27	0.19	2.61	70	<0.5	
VFL002 08+25W		0.011	0.07	0.68	22	0.12	2.55	67	0.5	
VFL002 08+50W		0.009	0.08	1.08	19	0.10	5.93	80	0.8	
VFL002 08+75W		<0.005	0.09	0.73	16	0.08	2.77	72	1.2	
VFL002 09+00W		<0.005	0.08	1.64	13	0.06	8.92	99	1.9	
VFL003 00+00		<0.005	0.04	1.42	8	<0.05	6.66	89	2.3	
VFL003 00+50S		<0.005	0.06	5.53	10	<0.05	10.05	119	4.5	
VFL003 01+00S		0.007	0.04	1.63	9	<0.05	6.32	70	2.6	
VFL003 01+50S		0.006	0.05	3.72	9	<0.05	6.09	82	3.0	
VFL003 02+00S		0.010	0.03	0.52	9	0.05	1.34	19	<0.5	
VFL003 02+50S		<0.005	0.08	1.11	5	0.13	3.38	72	3.1	
VFL003 03+00S		<0.005	0.07	2.97	9	0.10	2.42	43	1.0	
VFL003 03+50S		0.014	0.05	0.44	9	0.09	1.38	10	<0.5	

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ST43 Au ppm 0.0001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
VFL003 04+00S		0.62	0.0012	0.15	0.39	11.9	<0.2	<10	30	0.30	0.51	0.02	0.08	48.4	9.3	8
VFL003 04+50S		0.45	0.0011	0.13	0.41	11.6	<0.2	<10	30	0.38	0.52	0.12	0.07	57.5	13.6	9
VFL003 05+00S		0.46	0.0005	0.06	0.60	5.4	<0.2	<10	30	0.20	0.26	0.04	0.04	13.55	6.8	5
VFL003 05+50S		0.49	<0.0001	0.03	0.39	6.6	<0.2	<10	20	0.09	0.19	0.01	0.04	14.15	4.7	9
VFL003 06+00S		0.67	0.0007	0.09	0.31	13.9	<0.2	<10	30	0.27	0.45	0.01	0.05	58.3	12.5	8
VFL003 06+50S		0.51	0.0002	0.07	0.44	4.7	<0.2	<10	20	0.18	0.24	0.03	0.03	27.3	3.7	5
VFL003 07+00S		0.63	0.0004	0.08	0.45	5.6	<0.2	<10	20	0.16	0.36	0.02	0.04	29.6	6.7	7
VFL003 07+50S		0.68	0.0006	0.06	0.26	8.1	<0.2	<10	20	0.20	0.38	0.01	0.04	58.4	10.7	7
VFL003 08+00S		0.75	0.0012	0.07	0.21	7.5	<0.2	<10	20	0.21	0.35	<0.01	0.02	65.5	5.4	5
VFL003 08+50S		0.66	0.0033	0.13	0.33	59.3	<0.2	<10	20	0.31	0.40	<0.01	0.08	66.7	14.1	8
VFL003 09+00S		0.42	0.0018	0.47	0.59	9.6	<0.2	<10	20	0.10	0.16	0.03	0.02	13.50	2.2	4
VFL003 09+50S		0.45	0.0005	0.08	1.22	5.0	<0.2	<10	40	0.37	0.25	0.04	0.08	23.7	12.2	11
VFL003 10+00S		0.52	0.0007	0.09	1.45	6.2	<0.2	<10	30	0.51	0.43	0.02	0.06	32.1	16.5	15
VFL003 10+50S		0.45	0.0008	0.07	1.67	6.8	<0.2	<10	40	0.71	0.54	0.06	0.08	25.3	15.5	18
VFL003 11+00S		0.47	0.0006	0.10	0.68	6.3	<0.2	<10	30	0.40	0.35	0.17	0.05	33.7	11.7	10
VFL003 11+50S		0.52	0.0011	0.15	1.05	9.7	<0.2	<10	30	0.53	0.55	0.38	0.08	35.0	23.1	15
VFL003 12+00S		0.50	0.0004	0.13	0.90	2.9	<0.2	<10	50	0.46	0.27	0.34	0.17	21.3	12.4	10
VFL003 12+50S		0.55	0.0013	0.18	1.15	8.0	<0.2	<10	40	0.61	0.44	0.40	0.08	48.1	31.5	14
VFL003 13+00S		0.39	0.0015	0.25	0.81	12.8	<0.2	<10	30	0.56	0.36	0.76	0.06	34.5	16.6	9
VFL003 13+50S		0.61	0.0013	0.30	1.14	15.1	<0.2	<10	40	0.70	0.36	0.28	0.09	38.3	25.2	12
VFL003 14+00S		0.70	0.0009	0.15	0.99	8.3	<0.2	<10	60	0.66	0.30	0.14	0.18	38.9	20.8	11
VFL003 14+50S		0.69	0.0016	0.22	1.09	12.2	<0.2	<10	70	0.70	0.28	0.23	0.17	46.9	29.5	11
JKVFS003		0.56	0.0017	0.18	1.03	14.0	<0.2	<10	30	0.47	0.51	0.46	0.15	31.8	13.8	16
RZJNS001		0.46	0.0240	0.68	2.85	1665	<0.2	<10	60	3.91	6.66	0.67	1.30	76.8	24.4	17
RZJNS002		0.69	0.0032	0.09	0.74	26.2	<0.2	<10	20	0.34	0.48	0.11	0.06	51.5	15.1	13
RZJNS003		0.88	0.0069	0.19	0.92	61.6	<0.2	<10	20	0.77	0.33	0.10	2.33	239	91.9	8
RZJNS004		0.39	0.0032	0.05	0.38	385	<0.2	<10	20	0.75	0.12	0.13	0.49	64.4	15.1	3
RZJNS005		0.63	0.0018	0.59	0.85	53.9	<0.2	<10	160	0.86	0.40	2.77	2.18	42.6	11.0	16
RZJNS006		0.43	0.0044	0.18	0.89	138.0	<0.2	<10	60	0.74	0.46	0.75	1.33	150.0	44.8	13
RZVFD001		0.64	0.0008	0.08	1.63	8.2	<0.2	<10	90	0.89	0.40	0.16	0.16	47.8	18.1	24
RZVFD002		0.57	0.0007	0.08	1.46	5.7	<0.2	<10	40	0.63	0.39	0.19	0.10	70.7	20.0	17
RZVFD003		0.51	0.0009	0.22	1.41	8.4	<0.2	<10	80	0.93	0.36	0.36	0.12	38.9	21.8	12
RZVFS001		0.34	0.0010	0.11	1.40	10.6	<0.2	<10	60	0.49	0.29	0.92	0.15	26.6	7.6	15
RZVFS002		0.27	0.0018	0.16	1.07	37.0	<0.2	<10	30	0.44	0.41	0.48	0.24	28.6	13.4	14
RZVFS003		0.70	0.0017	0.13	1.06	19.3	<0.2	<10	40	0.76	0.51	0.60	0.10	39.6	20.0	17
RZVFS004		0.32	0.0009	0.11	1.05	11.7	<0.2	<10	50	0.62	0.33	0.75	0.07	30.5	10.4	13
LJJNS001		0.42	0.0013	0.17	0.27	76.3	<0.2	<10	10	0.36	0.29	8.33	0.38	22.7	21.7	7
LJJNS003		0.38	0.0012	0.68	0.98	48.3	<0.2	<10	170	0.79	0.42	0.72	2.08	43.2	9.8	15
LJJNS002		0.47	0.0008	0.18	0.26	48.8	<0.2	<10	10	0.25	0.30	8.00	0.27	25.4	13.6	7

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

ALS Canada Ltd.
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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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
VFL003 04+00S		1.51	20.7	2.65	1.40	0.06	<0.02	0.03	0.019	0.05	24.3	6.4	0.07	391	0.39	0.01
VFL003 04+50S		1.30	26.0	3.17	1.49	0.07	0.02	0.02	0.020	0.05	28.8	9.3	0.12	535	0.40	0.01
VFL003 05+00S		1.74	10.9	1.54	2.22	<0.05	<0.02	0.02	0.012	0.03	6.4	4.3	0.05	270	0.34	0.02
VFL003 05+50S		1.17	15.0	1.91	1.81	<0.05	<0.02	0.01	0.009	0.03	7.4	1.0	0.03	193	0.68	0.01
VFL003 06+00S		1.99	18.9	2.34	1.39	0.06	<0.02	0.02	0.017	0.05	28.7	4.3	0.05	672	0.47	0.01
VFL003 06+50S		1.21	11.5	1.18	1.55	<0.05	<0.02	0.01	0.011	0.05	13.4	4.2	0.05	161	0.37	0.02
VFL003 07+00S		1.79	13.0	1.73	1.81	<0.05	<0.02	0.01	0.016	0.05	15.3	8.3	0.09	241	0.47	0.01
VFL003 07+50S		1.64	16.6	2.37	1.19	0.06	<0.02	0.01	0.017	0.05	30.2	3.5	0.03	403	0.39	<0.01
VFL003 08+00S		2.18	16.1	2.32	1.14	0.07	<0.02	0.02	0.019	0.06	33.6	1.1	0.01	166	0.34	<0.01
VFL003 08+50S		1.83	23.4	3.22	1.47	0.06	<0.02	0.01	0.021	0.05	34.8	3.1	0.04	392	0.50	0.01
VFL003 09+00S		0.73	9.7	1.07	2.71	<0.05	<0.02	0.02	0.008	0.02	6.7	1.0	0.02	70	0.35	0.02
VFL003 09+50S		0.80	21.3	2.55	3.17	<0.05	0.03	0.02	0.014	0.03	11.1	23.9	0.27	405	0.30	0.02
VFL003 10+00S		0.91	24.4	3.52	3.81	0.05	0.05	0.03	0.022	0.03	16.5	42.0	0.40	563	0.36	0.01
VFL003 10+50S		1.01	33.0	4.38	4.28	<0.05	0.06	0.03	0.031	0.03	12.0	56.7	0.48	546	0.41	0.01
VFL003 11+00S		1.09	17.9	2.90	2.18	<0.05	0.04	0.01	0.017	0.04	16.9	14.2	0.18	498	0.34	0.01
VFL003 11+50S		0.91	35.0	4.24	3.16	0.06	0.11	0.02	0.027	0.04	18.5	31.9	0.38	826	0.57	0.01
VFL003 12+00S		0.81	17.1	2.66	2.66	<0.05	0.11	0.04	0.016	0.05	10.1	15.8	0.20	631	0.46	0.01
VFL003 12+50S		1.06	34.8	4.31	2.84	0.06	0.08	0.03	0.030	0.04	25.1	32.0	0.35	1100	0.50	0.01
VFL003 13+00S		0.58	29.0	3.94	1.89	0.06	0.16	0.04	0.029	0.03	17.9	15.0	0.21	537	0.47	0.01
VFL003 13+50S		0.81	29.4	4.51	2.79	0.05	0.07	0.02	0.038	0.03	18.2	21.8	0.28	1400	0.56	0.01
VFL003 14+00S		1.21	25.9	3.31	2.80	0.06	0.06	0.04	0.039	0.05	18.1	17.1	0.21	1680	0.71	0.01
VFL003 14+50S		1.11	24.2	3.77	3.13	0.06	0.05	0.04	0.048	0.06	22.6	19.4	0.25	1610	0.52	0.01
JKVFS003		3.55	28.1	3.45	2.86	<0.05	0.06	0.02	0.024	0.04	17.5	36.6	0.39	450	0.52	0.01
RZJNS001		3.69	177.5	27.4	3.23	0.94	0.11	0.11	1.415	0.03	49.6	10.0	0.11	1310	41.2	0.01
RZJNS002		0.80	31.1	4.04	2.44	0.07	0.03	0.01	0.030	0.03	26.6	19.9	0.23	410	0.51	0.01
RZJNS003		0.92	47.3	2.73	2.27	0.20	0.04	0.02	0.031	0.05	104.0	13.5	0.08	2780	0.35	<0.01
RZJNS004		0.32	13.9	27.7	0.92	0.12	0.05	0.01	0.011	0.02	33.3	3.8	0.04	305	0.45	0.01
RZJNS005		2.38	37.4	2.96	2.51	0.06	0.06	0.03	0.045	0.10	23.2	13.3	1.01	498	13.25	0.01
RZJNS006		1.55	31.7	3.47	2.60	0.15	0.04	0.02	0.029	0.05	78.1	13.6	0.29	1420	0.76	0.01
RZVFD001		1.84	31.3	5.48	4.58	0.07	<0.02	0.07	0.048	0.06	22.5	22.9	0.45	1420	1.43	0.01
RZVFD002		1.28	31.8	4.16	4.77	0.16	0.11	0.02	0.028	0.04	36.8	39.3	0.53	594	0.49	<0.01
RZVFD003		2.83	33.6	4.59	3.63	0.12	0.15	0.04	0.042	0.09	18.4	20.9	0.29	815	0.50	<0.01
RZVFS001		0.53	22.8	2.92	3.56	0.05	0.12	0.05	0.018	0.06	14.4	26.4	0.39	305	0.34	0.01
RZVFS002		0.88	25.3	3.45	3.01	0.05	0.09	0.06	0.030	0.04	14.4	26.2	0.34	566	0.32	0.01
RZVFS003		0.92	42.9	4.60	3.13	0.09	0.10	0.02	0.037	0.04	20.2	28.8	0.44	690	0.81	<0.01
RZVFS004		1.02	23.2	3.01	2.84	0.06	0.12	0.05	0.024	0.04	14.4	21.9	0.35	378	0.41	0.01
LJJNS001		0.65	29.5	3.46	0.85	0.07	0.05	0.04	0.036	0.02	13.7	2.7	0.20	940	0.58	<0.01
LJJNS003		1.34	29.6	2.69	3.04	0.10	0.10	0.04	0.043	0.09	22.8	14.9	0.67	422	6.47	0.01
LJJNS002		0.68	26.9	3.12	0.77	0.09	0.08	0.05	0.036	0.02	14.2	2.3	0.19	290	0.61	0.01

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
44 - 12TH AVENUE SOUTH
SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	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
VFL003 04+00S		0.08	19.1	460	35.2	4.1	<0.001	0.03	1.08	1.4	0.6	0.5	9.7	<0.01	0.01	7.2
VFL003 04+50S		<0.05	26.9	460	35.9	3.5	<0.001	0.03	1.09	2.3	0.7	0.4	16.3	<0.01	0.01	13.8
VFL003 05+00S		0.20	7.1	450	21.7	3.8	<0.001	0.03	0.47	0.4	0.3	0.3	6.6	<0.01	0.02	0.3
VFL003 05+50S		0.17	11.6	530	7.1	3.7	<0.001	0.03	0.34	0.2	0.2	0.9	4.1	<0.01	<0.01	0.3
VFL003 06+00S		<0.05	18.8	390	38.3	4.6	<0.001	0.03	0.76	1.4	0.3	0.7	10.4	<0.01	0.02	10.9
VFL003 06+50S		0.15	5.4	420	20.1	4.7	<0.001	0.02	0.44	0.6	0.4	0.4	7.2	<0.01	0.02	1.9
VFL003 07+00S		0.09	8.5	530	34.7	4.4	<0.001	0.04	0.72	0.7	0.4	0.4	17.3	<0.01	0.01	3.3
VFL003 07+50S		<0.05	14.6	390	33.1	4.1	<0.001	0.02	0.98	1.7	0.4	0.2	9.4	<0.01	0.03	13.2
VFL003 08+00S		0.05	9.4	430	31.8	4.8	<0.001	0.02	1.42	1.9	0.5	0.2	10.8	<0.01	0.03	12.4
VFL003 08+50S		0.14	19.2	520	43.7	4.9	<0.001	0.01	2.10	2.0	0.4	0.2	14.5	<0.01	0.03	13.2
VFL003 09+00S		0.15	4.4	400	27.7	3.0	<0.001	0.02	0.60	0.2	0.3	0.2	4.8	0.01	0.01	<0.2
VFL003 09+50S		0.16	20.3	550	18.1	4.0	<0.001	0.03	0.94	1.0	0.3	0.2	5.4	<0.01	0.01	1.9
VFL003 10+00S		0.10	26.4	550	27.6	4.9	0.001	0.02	1.12	1.5	0.6	0.3	4.8	<0.01	0.01	5.1
VFL003 10+50S		0.10	34.2	480	23.7	4.9	0.001	0.03	1.61	2.3	0.5	0.4	7.3	<0.01	0.02	6.7
VFL003 11+00S		<0.05	20.3	470	28.4	4.4	<0.001	0.03	1.15	1.2	0.2	0.3	13.8	<0.01	0.01	5.3
VFL003 11+50S		<0.05	38.8	450	42.8	2.5	<0.001	0.03	1.97	2.9	0.6	0.6	20.4	<0.01	0.02	10.7
VFL003 12+00S		0.16	19.8	1190	24.6	4.1	<0.001	0.09	0.76	1.1	0.4	0.5	23.6	<0.01	0.01	2.0
VFL003 12+50S		<0.05	40.7	410	35.6	2.6	0.001	0.03	1.61	3.4	0.7	0.5	43.8	<0.01	0.01	12.6
VFL003 13+00S		<0.05	36.8	530	30.3	2.4	<0.001	0.05	2.72	2.7	0.8	0.4	74.5	<0.01	0.02	5.8
VFL003 13+50S		0.05	34.2	690	36.2	3.1	<0.001	0.05	3.76	2.1	0.5	0.5	44.4	<0.01	0.03	4.8
VFL003 14+00S		0.11	27.2	1040	41.8	5.6	<0.001	0.05	1.32	1.8	1.1	1.8	20.9	<0.01	0.01	4.6
VFL003 14+50S		0.15	35.5	570	46.3	4.5	<0.001	0.03	1.85	3.5	1.0	0.8	32.4	<0.01	0.01	10.7
JKVFS003		0.06	29.9	570	39.6	4.8	<0.001	0.05	0.94	2.0	1.1	1.1	47.5	<0.01	0.03	7.5
RZJNS001		0.47	23.1	1270	49.5	4.0	0.002	0.14	6.18	9.6	3.3	2.6	45.9	<0.01	0.06	10.3
RZJNS002		0.05	28.5	570	38.9	2.9	0.001	0.02	1.77	2.2	0.7	0.4	16.4	<0.01	0.03	13.9
RZJNS003		<0.05	124.0	420	37.8	3.3	0.001	0.13	1.54	1.4	2.0	0.8	17.7	<0.01	0.02	12.7
RZJNS004		<0.05	22.6	220	12.9	1.5	<0.001	0.14	1.04	0.9	1.1	0.5	17.3	<0.01	0.02	4.7
RZJNS005		0.20	43.6	820	31.6	6.9	0.005	0.06	5.25	3.8	2.3	2.7	98.6	<0.01	0.04	3.5
RZJNS006		0.10	70.2	630	28.7	4.2	<0.001	0.04	1.52	2.3	2.1	0.5	44.8	<0.01	0.01	8.9
RZVFD001		0.75	34.1	890	39.2	6.1	0.003	0.02	0.48	4.3	0.7	1.8	15.6	<0.01	0.06	3.1
RZVFD002		0.14	30.8	650	37.2	3.5	<0.001	0.03	1.32	3.8	0.5	0.6	14.6	0.01	0.02	14.0
RZVFD003		0.12	35.1	1120	63.6	10.8	<0.001	0.08	0.91	3.0	0.9	0.5	41.3	0.01	0.03	6.5
RZVFS001		0.26	21.5	580	24.0	4.7	0.001	0.08	0.68	1.6	0.6	0.3	88.6	<0.01	0.02	3.5
RZVFS002		0.17	25.3	520	43.3	3.9	0.001	0.04	1.10	2.0	0.6	0.4	48.7	<0.01	0.02	6.4
RZVFS003		0.09	36.3	670	43.0	2.9	<0.001	0.06	3.02	3.8	0.7	2.8	40.5	<0.01	0.05	8.8
RZVFS004		0.22	21.1	670	29.1	4.2	0.002	0.08	0.94	2.3	1.1	0.9	57.0	<0.01	0.02	4.0
LJJNS001		0.08	41.5	570	25.9	1.3	0.001	0.12	4.28	3.6	0.8	0.2	271	<0.01	0.05	6.2
LJJNS003		0.33	34.8	980	30.9	8.9	0.003	0.03	3.56	4.4	1.5	0.4	55.9	<0.01	0.03	3.1
LJJNS002		0.10	33.0	650	23.8	1.2	<0.001	0.16	4.05	2.9	0.9	0.2	284	<0.01	0.04	6.0

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

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To: TERRALOGIC EXPLORATION SERVICES INC.
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SUITE 200
CRANBROOK BC V1C 2R7

Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- AROR43
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.01
VFL003 04+00S		<0.005	0.09	1.02	6	0.09	4.14	58	<0.5	
VFL003 04+50S		<0.005	0.07	1.04	5	0.08	5.53	74	0.8	
VFL003 05+00S		0.011	0.06	0.58	10	0.09	2.44	23	<0.5	
VFL003 05+50S		0.006	0.05	0.43	12	0.16	0.93	40	<0.5	
VFL003 06+00S		<0.005	0.09	1.08	5	0.18	4.33	51	<0.5	
VFL003 06+50S		0.007	0.06	0.76	7	0.09	1.75	21	0.5	
VFL003 07+00S		<0.005	0.07	0.87	7	0.15	1.75	30	<0.5	
VFL003 07+50S		<0.005	0.08	1.12	5	0.17	3.25	50	<0.5	
VFL003 08+00S		<0.005	0.09	1.20	5	0.23	3.09	44	<0.5	
VFL003 08+50S		<0.005	0.08	1.48	9	0.28	3.76	78	<0.5	
VFL003 09+00S		0.012	0.05	0.58	11	0.13	1.00	19	<0.5	
VFL003 09+50S		0.009	0.05	0.88	13	0.06	4.30	57	1.0	
VFL003 10+00S		<0.005	0.05	0.82	10	0.05	4.38	72	1.4	
VFL003 10+50S		<0.005	0.07	1.09	11	<0.05	6.08	93	1.6	
VFL003 11+00S		<0.005	0.06	1.21	7	0.05	4.19	61	1.0	
VFL003 11+50S		<0.005	0.05	1.54	9	<0.05	12.75	95	3.8	
VFL003 12+00S		<0.005	0.04	1.15	8	0.05	7.46	64	2.9	
VFL003 12+50S		<0.005	0.05	1.30	8	<0.05	12.95	90	3.5	
VFL003 13+00S		<0.005	0.04	1.63	6	<0.05	14.85	79	4.5	
VFL003 13+50S		<0.005	0.07	1.63	9	<0.05	8.72	70	2.4	
VFL003 14+00S		0.005	0.07	1.93	10	0.07	17.50	60	1.9	
VFL003 14+50S		0.007	0.07	1.59	10	0.06	21.5	72	2.7	
JKVFS003		<0.005	0.05	1.34	8	0.06	8.29	94	1.7	
RZJNS001		0.015	1.38	31.4	9	12.20	37.8	472	3.0	
RZJNS002		<0.005	0.08	1.29	9	0.14	5.37	95	1.6	
RZJNS003		<0.005	0.15	1.83	6	0.21	40.9	303	1.5	
RZJNS004		<0.005	0.87	5.97	4	0.27	47.3	299	1.7	
RZJNS005		<0.005	0.29	1.47	43	0.13	12.20	340	1.8	
RZJNS006		<0.005	0.15	1.32	13	0.30	33.2	210	1.2	
RZVFD001		0.027	0.06	1.42	21	0.13	13.25	89	<0.5	
RZVFD002		0.012	0.04	1.34	12	0.06	12.25	107	6.6	
RZVFD003		<0.005	0.09	2.56	10	0.07	23.4	100	3.4	
RZVFS001		<0.005	0.05	2.33	10	<0.05	7.22	87	3.2	
RZVFS002		<0.005	0.05	2.33	9	0.09	6.54	99	2.4	
RZVFS003		<0.005	0.03	1.30	10	0.06	10.10	106	3.1	
RZVFS004		<0.005	0.03	1.91	9	<0.05	8.87	71	3.1	
LJJNS001		<0.005	0.18	2.36	8	0.32	9.92	103	2.1	
LJJNS003		0.005	0.18	1.15	43	0.18	13.55	331	3.1	
LJJNS002		<0.005	0.12	2.24	8	0.32	8.63	100	3.5	

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

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21- AUG- 2012
Account: TELOEX

CERTIFICATE OF ANALYSIS WH12183060

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

5.4 – Metallurgical Report

PRELIMINARY ASSESSMENT OF TWO GOLD ORE COMPOSITES FROM THE JUSTIN GOLD PROJECT

ABEN RESOURCES LTD.

KM3478

July 30, 2012



ISO 9001:2008
Certificate No. FS 63170

ALS Metallurgy

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4.0 Conclusions and Recommendations 5

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July 30, 2012
KM3478

Report Distribution:
Mr. Chris Gallagher, TerraLogic Exploration Inc., Cranbrook, BC – 2 Copies

1.0 Introduction

The Justin Gold Project is located in the southeast Yukon, Canada. This preliminary program was designed to study the metallurgical response of two composites of gold ore samples from the Justin Gold Project.

The assessment included gold extraction response to gravity separation and cyanidation leach test work in accordance to the scope of work directed by Mr. Chris Gallagher, TerraLogic Exploration Inc. on behalf of Aben Resources Ltd. The composites were assessed on the following parameters:

– Chemical characteristics of the feed.

– Gold extraction response, including gravity separation prior to cyanidation.

Two composites were constructed for this program of study. The composites were constructed from 6 mesh material under the direction of Mr. Chris Gallagher*. Each composite weighed about 10 kilograms.

The program commenced in late June 2012 and was completed in early July 2012. Following the test work, the preparation of this technical report commenced.

The following technical brief summarizes the key points of the program. All of the test data generated through the execution of this program can be reviewed in a series of appendices attached to this brief. The appendices are arranged as follows:

Appendix I - Sample Origin
Appendix II - Metallurgical Test Data
Appendix III - Particle Sizing Data
Appendix IV - Special Data

* Details can be located in Appendix I.

2.0 Ore Characteristics

Chemical composition of the composites was measured. These important parameters, that impact on process design, are discussed further in the following subsection.

2.1 Chemical Content

Using standard chemical assaying techniques, the chemical composition of the composites was determined. A summary of the results from the analyses are shown in Table 1*.

TABLE 1
CHEMICAL CONTENT DATA

Sample	Assays – percent or g/tonne						
	As	Au	Ag	S	C	S(s)	TOC
Composite 1	0.002	3.05	<1	1.13	0.28	1.11	0.03
Composite 2	2.63	2.98	27	5.83	3.16	5.81	0.03

Note: Au and Ag assays are reported in g/tonne, all others are reported in percent.

The gold grade for the composites was about 3.0 g/tonne. The silver content of Composite 1 was negligible, whilst the silver grade for Composite 2 was 27 g/tonne.

The arsenic and sulphur levels are significantly higher in Composite 2 than those seen in Composite 1. This may present difficulties with regards to the free-milling cyanidation of Composite 2, as it indicates there may be the presence of arsenopyrite, which is known to be a host of refractory gold. The level of organic carbon in the composites is negligible, indicating a low chance of preg-robbing minerals in the sample.

* Comprehensive head assays can be found in Appendix IV.

3.0 Gravity Separation/Cyanidation Time Leach Test Work

The preliminary cyanidation test program was a gravity separation followed by cyanidation leach test at a target of 75µm K_{80}. The gravity concentrate was subjected to intensive cyanidation. The intensive leach residue was combined with the gravity tailing for further cyanidation. The tests were aimed at investigating the extraction of gold via gravity separation and cyanidation.

A schematic of the test flowsheet, along with the test results, are displayed in Figure 1. The test results reveal the following points of interest:

- Composite 1 had a higher overall gold extraction of about 87 percent, compared to that of Composite 2, being about 62 percent. This may be due to the elevated levels of arsenic and sulphur and may indicate some refractory gold in Composite 2.

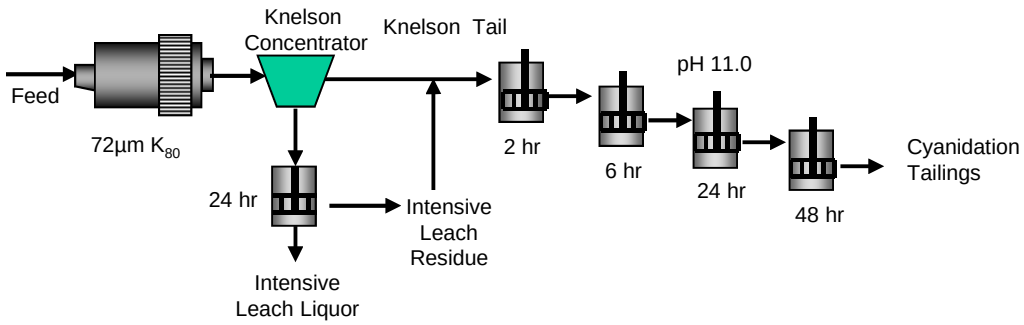
- A moderate proportion of the gold was extracted via gravity separation, being between 15 and 20 percent. This may be insufficient to warrant a gravity separation circuit.

- Gold dissolution kinetics of the tailing leach were rapid with the bulk of the exposed cyanidable gold being solubilised within six hours from the start of the leaching process.

- Overall sodium cyanide and lime consumption levels were low for Composite 1, measuring about 0.9 kg/tonne and 1.4 kg/tonne, respectively. The reagent consumption levels were significantly higher for Composite 2, being about 3.8 kg/tonne and 4.6 kg/tonne for sodium cyanide and lime, respectively.

FIGURE 1
FLOWSHEET, TEST CONDITIONS, AND RESULTS

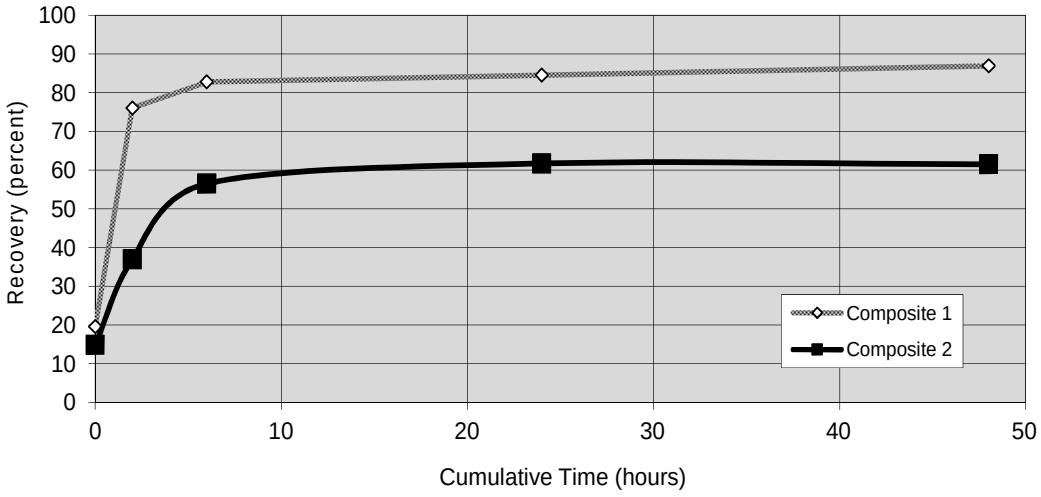
Gravity plus Cyanidation Flowsheet



Test Results

Test	Grind Size µm	Percent Au Extraction at Time Hours					Consumption (kg/t)	
		Gravity	2	6	24	48	NaCN	Lime
1	81	19.6	76	82.7	84.5	86.9	0.9	1.4
2	71	14.9	37	56.5	61.7	61.5	3.8	4.6

Cyanide Leach Kinetics



Notes a) The target NaCN concentration in the 24hr intensive bottle roll test was 50,000 ppm.
b) The target NaCN concentration in the 48hr bottle roll test was 1,000 ppm.

4.0 Conclusions and Recommendations

A preliminary metallurgical assessment test program aimed at investigating ore characteristics and gravity cyanidation response of two composite samples from the Justin Project was undertaken. The composites tested in this program were constructed from samples in the form of 6 mesh.

The gold grade for the composites was about 3.0 g/tonne. The silver content of Composite 1 was negligible, whilst the silver grade for Composite 2 was 27 g/tonne. The arsenic and sulphur levels are significantly higher in Composite 2 than those observed in Composite 1. This may present difficulties with regards to the free-milling cyanidation of Composite 2, as it indicates there may be the presence of arsenopyrite, which is known to be a host of refractory gold.

The initial gravity separation/bottle roll cyanidation tests indicated the gold recovery for Composite 1 was about 87 percent. The gold recovery for Composite 2 was significantly less, being about 62 percent. This may indicate that there is a refractory gold component in Composite 2. Only a moderate proportion, between 15 and 20 percent, of the recovered gold reported to the gravity concentrate, which may be insufficient to warrant a gravity circuit. Gold dissolution kinetics on the gravity tailing was rapid, with the bulk of the exposed cyanidable gold being solubilised within six hours from the start of the leaching process.

Further test work would be required to investigate the refractory nature of Composite 2. This would include, but is not limited to, mineralogy and flotation response. Flotation of a sulphide concentrate for either sale or leaching may be another option for consideration for Composite 1.

APPENDIX I – KM3478

SAMPLE ORIGIN

1.0 Sample Origin

Samples for the Justin Project were received at G&T Metallurgical Services on June 19, 2012. This consisted of 22 samples in the form of 6 mesh, weighing a total of 33.6 kilograms. Two composites were constructed for this program of study. The composites were constructed from the 6 mesh material under the direction of Mr. Chris Gallagher. Each composited weighed about 10 kilograms.

The composites were homogenized and rotary split into sub-samples for subsequent extraction test work. Representative head assay cuts were removed and assayed for elements of interest for this project. Table I-1 shows the average chemical content for the composites.

TABLE I-1
CHEMICAL CONTENT DATA

Sample	Assays – percent or g/tonne						
	As	Au	Ag	S	C	S(s)	TOC
Composite 1	0.002	3.05	<1	1.13	0.28	1.11	0.03
Composite 2	2.63	2.98	27	5.83	3.16	5.81	0.03

APPENDIX II – KM3478

METALLURGICAL TEST DATA

INDEX

TEST		PAGE
1A	Knelson/Cyanidation Test – Composite 1	1
1B	Cyanidation Test – Test 1A Combined Knelson and Cyanide Tailings	2
2A	Knelson/Cyanidation Test – Composite 2	4
2B	Cyanidation Test – Test 2A Combined Knelson and Cyanide Tailings	5

DATE: July 3, 2012

PROJECT NO: KM3478-01A

PURPOSE: To Produce Gravity Products for Leaching

PROCEDURE: Standard Knelson Procedure using a 50 g cone.

FEED: 2 kg of Composite 1 ground to a nominal 81μm K_{80}.

FLOWSHEET NO: 4

Stage	Inlet Pressure	Outlet Pressures		Time Minutes
		Start	Finish	
Grind				26
KN Separation 1	0.8	60	62	5.5

PURPOSE: Intensive Cyanidation on Knelson Concentrate.

PROCEDURE: Standard 24 hr bottle roll procedure. Agitate on rolls using cyanide and Sodium Hydroxide. 50,000 NaCN, 20g/L Leach Aid, head space purged with oxygen.

SAMPLE: 50 g Test 01A Knelson Concentrate.

Parameter	Time Cum	Added (g)		Residual (g)	Cons'd (g)	pH	Dissolved O2 (mg/L)	Leach Aid	Assay - g/t Au
		NaCN	NaOH	NaCN	NaCN				
Natural	-	-	-	-	-	8.0	3.33		-
Leach 1	0	10.00	0.24	-	-	12.0	-	4	
Leach 2	24	-	-	9.76	0.24	12.1	22.15	-	6.10
Total	24	-	0.24	9.76	0.24	-	-	-	-

Mass of Sample	50
Volume of Water	200
Pulp Density	20

NaCN Consumption	4.8 kg/tonne
NaOH Consumption	1.2 kg/tonne

DATE: July 2, 2012

PROJECT NO: KM3478-01B

PURPOSE: Preliminary Cyanide Leach

PROCEDURE: Standard 48 hour bottle roll procedure. Agitate on rolls using cyanide and lime. 1000ppm NaCN, head space purged with oxygen.

SAMPLE: 2000 g Test 01A Combined Knelson and Cyanide Tailings [Nominal K80 - 81µm].

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH	Dissolved O_2 (mg/L)
		NaCN	Lime	NaCN	NaCN		
Natural	-	-	-	-	-	8.4	0.03
Leach 1	0			-	-		-
Leach 2	2	3.00	2.09	2.28	0.72	11.0	3.56
Leach 3	6	0.00	0.00	2.10	0.18	11.0	0.62
Leach 4	24	0.00	0.00	1.68	0.42	11.0	15.6
Leach 5	48	0.00	0.61	1.50	0.18	11.0	13.5
Total	48	3.00	2.70	1.50	1.50	-	-

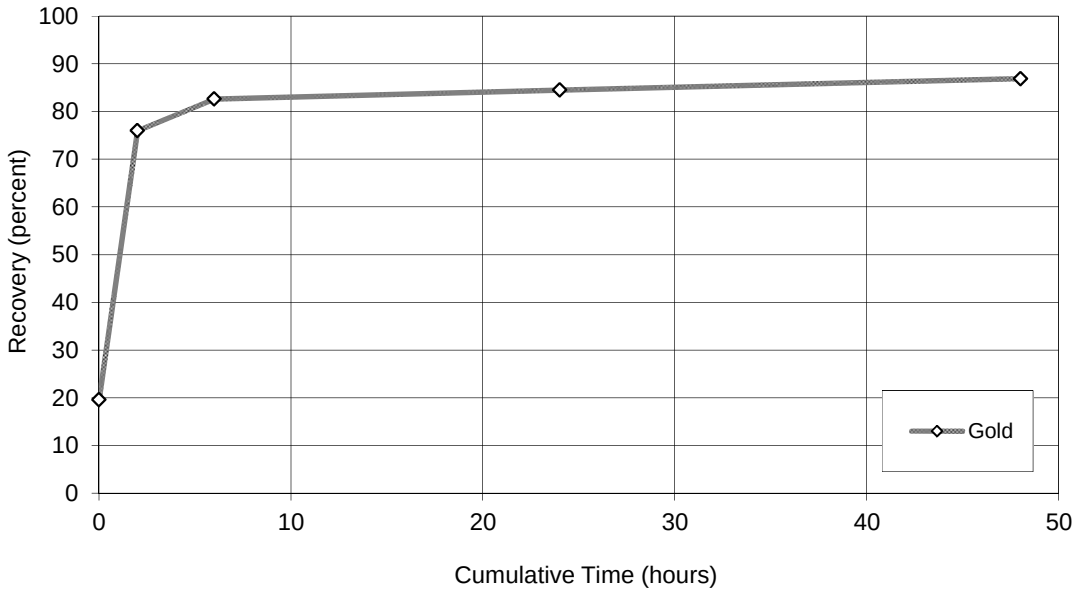
Mass of Sample	1987
Volume of Water	3000
Pulp Density	40

NaCN Consumption	0.8 kg/tonne
Lime Consumption	1.4 kg/tonne

KM3478-01 Knelson Tailings
Cumulative Metallurgical Balance

Product	Cumulative Time - Hrs	Volume or Mass	Units	Assay - g/t Gold	Distribution - percent Gold
Gravity Liquor	0	200	mL	6.10	19.6
Cyanide Liquor (2 hr)	2	3000	mL	1.17	76.0
Cyanide Liquor (6 hr)	6	3000	mL	1.30	82.7
Cyanide Liquor (24 hr)	24	3000	mL	1.33	84.5
Cyanide Liquor (48 hr)	48	3000	mL	1.37	86.9
Cyanidation Tails	-	1987	g	0.41	13.1
Calculated Feed		1987	g	3.13	100.0
Head Assay				3.05	

Cyanide Leach Kinetic Curves



DATE: July 3, 2012

PROJECT NO: KM3478-02A

PURPOSE: To Produce Gravity Products for Leaching

PROCEDURE: Standard Knelson Procedure using a 50 g cone.

FEED: 2 kg of Composite 2 ground to a nominal 71μm K_{80}.

FLOWSHEET NO: 4

Stage	Inlet Pressure	Outlet Pressures		Time Minutes
		Start	Finish	
Grind				39
KN Separation 1	1.1	58	62	6

PURPOSE: Intensive Cyanidation on Knelson Concentrate.

PROCEDURE: Standard 24 hr bottle roll procedure. Agitate on rolls using cyanide and Sodium Hydroxide. 50,000 NaCN, 20g/L Leach Aid, head space purged with oxygen.

SAMPLE: 50 g Test 02A Knelson Concentrate.

Parameter	Time Cum	Added (g)		Residual (g)	Cons'd (g)	pH	Dissolved O2 (mg/L)	Leach Aid	Assay - g/t Au
		NaCN	NaOH	NaCN	NaCN				
Natural	-	-	-	-	-	8.0	0.24		-
Leach 1	0	20.00	0.29	-	-	12.0	-	8	
Leach 2	24	-	-	17.32	2.68	11.6	19.19	-	2.03
Total	24	-	0.29	17.32	2.68	-	-	-	-

Mass of Sample	100
Volume of Water	400
Pulp Density	20

NaCN Consumption	26.8 kg/tonne
NaOH Consumption	0.7 kg/tonne

DATE: July 2, 2012

PROJECT NO: KM3478-02B

PURPOSE: Preliminary Cyanide Leach

PROCEDURE: Standard 48 hour bottle roll procedure. Agitate on rolls using cyanide and lime. 1000ppm NaCN, head space purged with oxygen.

SAMPLE: 2000 g Test 02A Combined Knelson and Cyanide Tailings [Nominal K80 - 71µm].

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH	Dissolved O_2 (mg/L)
		NaCN	Lime	NaCN	NaCN		
Natural	-	-	-	-	-	8.0	0.01
Leach 1	0			-	-		-
Leach 2	2	3.00	2.60	0.30	2.70	11.0	0.19
Leach 3	6	1.20	1.36	0.87	0.63	11.0	2.00
Leach 4	24	0.63	2.12	0.42	1.08	11.0	4.70
Leach 5	48	1.08	3.11	0.84	0.66	11.0	3.60
Total	48	5.91	9.19	0.84	5.07	-	-

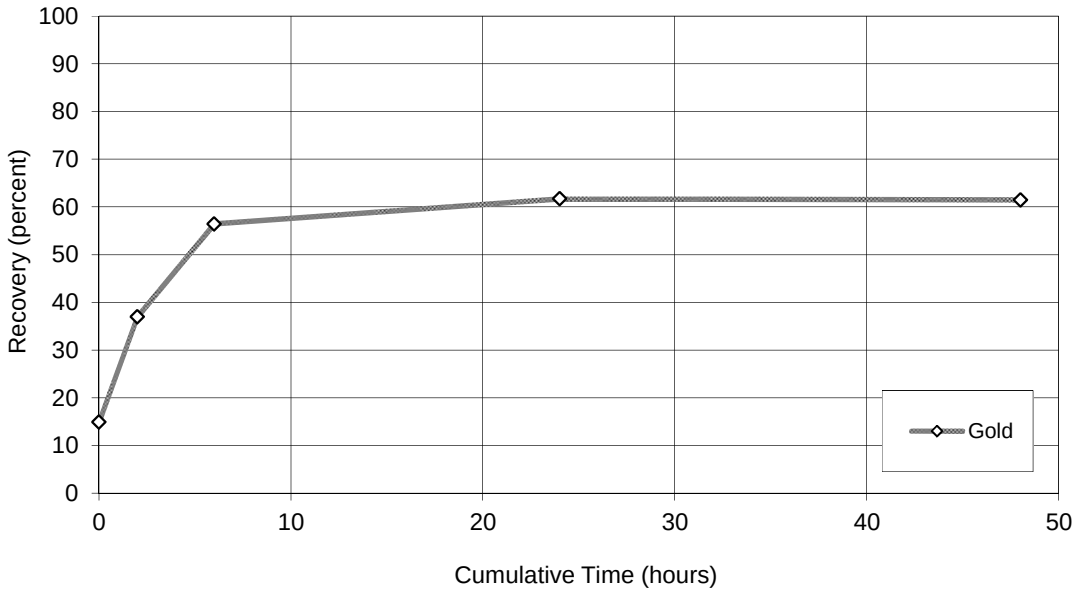
Mass of Sample	2015
Volume of Water	3000
Pulp Density	40

NaCN Consumption	2.5 kg/tonne
Lime Consumption	4.6 kg/tonne

KM3478-02 Knelson Tailings
Cumulative Metallurgical Balance

Product	Cumulative Time - Hrs	Volume or Mass	Units	Assay - g/t Gold	Distribution - percent Gold
Gravity Liquor	0	400	mL	2.03	14.9
Cyanide Liquor (2 hr)	2	3000	mL	0.40	37.0
Cyanide Liquor (6 hr)	6	3000	mL	0.75	56.5
Cyanide Liquor (24 hr)	24	3000	mL	0.84	61.7
Cyanide Liquor (48 hr)	48	3000	mL	0.83	61.5
Cyanidation Tails	-	2015	g	1.04	38.5
Calculated Feed		2015	g	2.70	100.0
Head Assay				2.98	

Cyanide Leach Kinetic Curves



APPENDIX III – KM3478

PARTICLE SIZING DATA

INDEX

TABLE		μm K_{80}	PAGE
III-1	KM3478 Composite 1 – 22 Minute Grind	99	1
III-2	KM3478 Composite 1 – 26 Minute Grind	81	2
III-3	KM3478 Composite 2 – 30 Minute Grind	102	3
III-4	KM3478 Composite 2 – 39 Minute Grind	71	4
III-5	KM3478 Composite 2 – 45 Minute Grind	60	5
III-6	KM3478-01 Cyanide Tail	73	6
III-7	KM3478-02 Cyanide Tail	66	7

TABLE III-1
SCREEN ANALYSIS
KM3478 Composite 1 - 22 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	2.60	97.4
150 Mesh	106	13.90	83.5
200 Mesh	75	17.20	66.3
270 Mesh	53	14.40	51.9
400 Mesh	38	10.90	41.0
TOTAL		100.00	**

K80 =99µm

Note: 22 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4

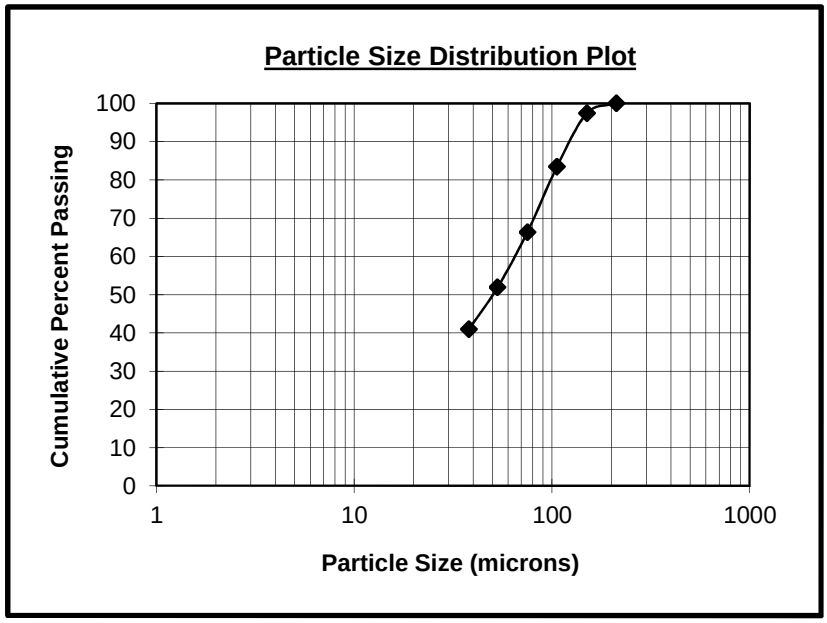


TABLE III-2
SCREEN ANALYSIS
KM3478 Composite 1 - 26 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	0.20	99.8
150 Mesh	106	6.80	93.0
200 Mesh	75	16.30	76.7
270 Mesh	53	17.20	59.5
400 Mesh	38	13.00	46.5
TOTAL		100.00	**

K80 =81µm

Note: 26 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4

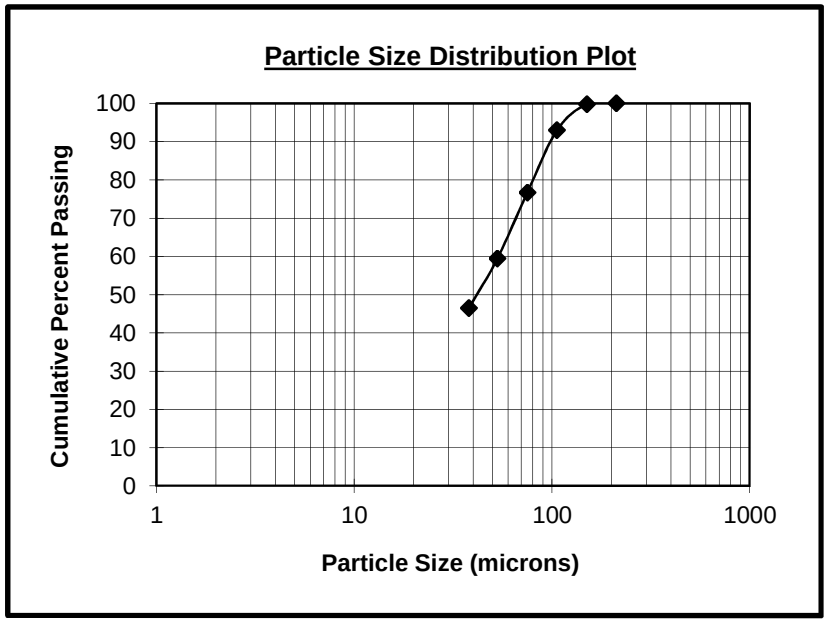


TABLE III-3
SCREEN ANALYSIS
KM3478 Composite 2 - 30 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	2.00	98.0
150 Mesh	106	15.90	82.1
200 Mesh	75	16.80	65.3
270 Mesh	53	14.30	51.0
400 Mesh	38	9.80	41.2
TOTAL		100.00	**

K80 =102µm

Note: 30 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4

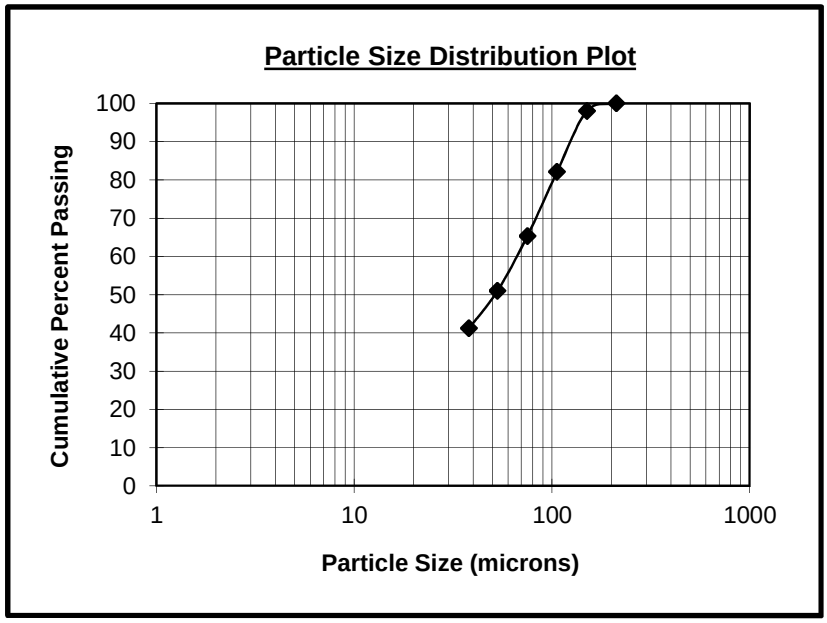


TABLE III-4
SCREEN ANALYSIS
KM3478 Composite 2 - 39 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	0.10	99.9
150 Mesh	106	2.80	97.1
200 Mesh	75	13.90	83.2
270 Mesh	53	18.50	64.7
400 Mesh	38	14.00	50.7
TOTAL		100.00	**

K80 =71µm

Note: 39 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4

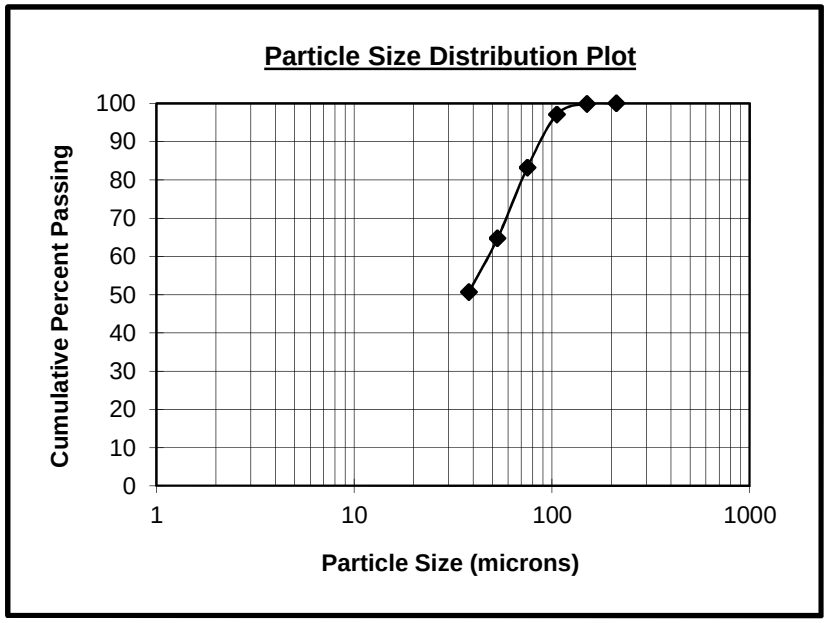


TABLE III-5
SCREEN ANALYSIS
KM3478 Composite 2 - 45 Minute Grind Calibration

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
100 Mesh	150	0.00	100.0
150 Mesh	106	0.60	99.4
200 Mesh	75	7.10	92.3
270 Mesh	53	18.60	73.7
400 Mesh	38	17.90	55.8
TOTAL		100.00	**

K80 =60µm

Note: 54 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4

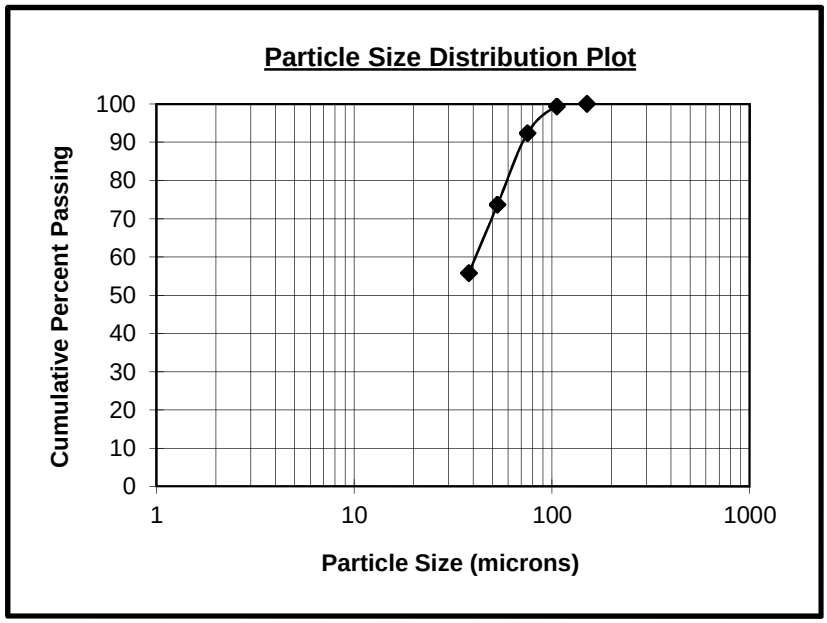


TABLE III-6
SCREEN ANALYSIS
KM3478-01 Cyanide Tail

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	0.10	99.9
150 Mesh	106	3.80	96.1
200 Mesh	75	14.20	81.9
270 Mesh	53	19.00	62.9
400 Mesh	38	14.20	48.7
TOTAL		100.00	**

K80 =73µm

Note: 39 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4

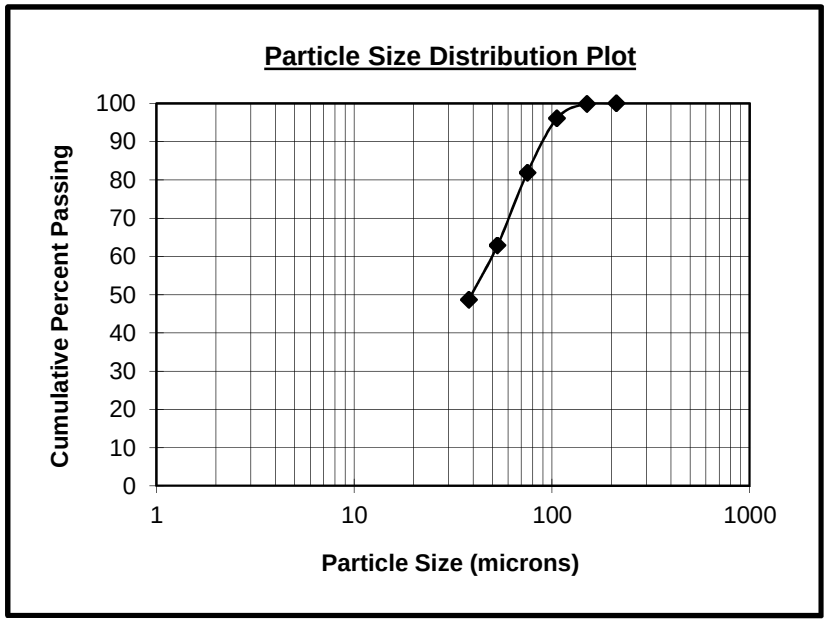
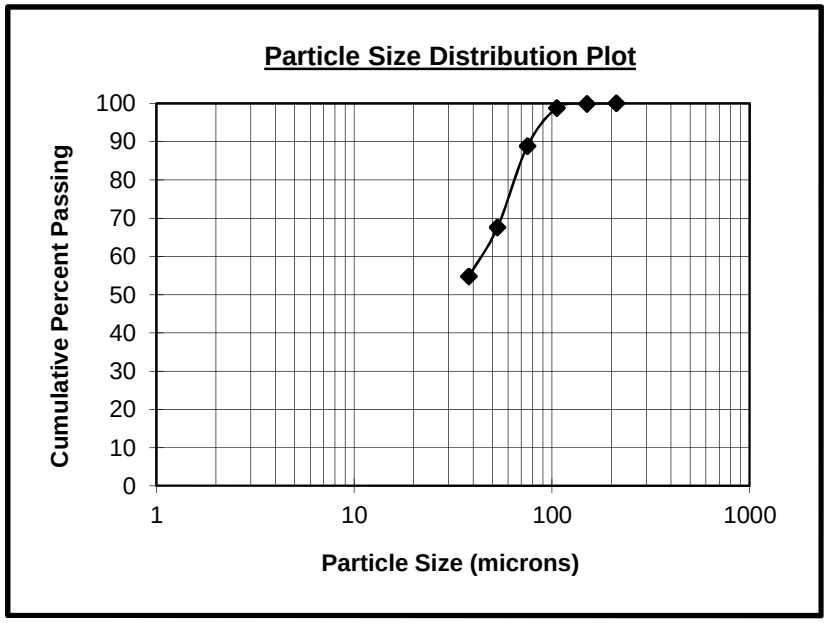


TABLE III-7
SCREEN ANALYSIS
KM3478-02 Cyanide Tail

Product	Particle Size µm	Weight % Retained	Cumulative % Passing
65 Mesh	212	0.00	100.0
100 Mesh	150	0.10	99.9
150 Mesh	106	1.10	98.8
200 Mesh	75	10.00	88.8
270 Mesh	53	21.20	67.6
400 Mesh	38	12.80	54.8
TOTAL		100.00	**

K80 =66µm

Note: 39 min. grind calibration using 2 kg. Ore, 1000 ml water and 20 kg. of Mild Steel rods in Mill: M4



APPENDIX IV – KM3478

SPECIAL DATA

INDEX

TABLE		PAGE
IV-1	Replicate Head Assay Data	1

REFERENCE

ALS Minerals Certificate VA12158942

TABLE IV-1
REPLICATE HEAD ASSAY DATA

Sample	Assays - percent or g/tonne						
	As	Au	Ag	S	C	S(s)	TOC
Composite 1 Head 1	0.002	3.10	<1	1.15	0.29	1.12	0.01
Composite 1 Head 2	<0.001	3.00	<1	1.11	0.28	1.10	0.04
Average	**0.002**	**3.05**	**<1**	**1.13**	**0.28**	1.11	**0.03**
Composite 2 Head 1	2.64	2.93	27	5.81	3.11	5.78	0.03
Composite 2 Head 2	2.63	3.02	26	5.85	3.20	5.84	0.03
Average	**2.63**	**2.98**	**27**	**5.83**	**3.16**	**5.81**	**0.03**

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

To: ALS METALLURGY, DIV OF ALS CANADA LTD
SS2 COMP #7, 2957 BOWERS PL
KAMLOOPS BC V1S 1W5

Finalized Date: 17-JUL-2012
Account: KRL

CERTIFICATE VA12158942

Project: KM3478

P.O. No.: A8959

This report is for 2 Pulp samples submitted to our lab in Vancouver, BC, Canada on 9-JUL-2012.

The following have access to data associated with this certificate:

G AND T METALLURGICAL	SIMONE BAWTREE	BRENDA TREMBLAY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

To: ALS METALLURGY, DIV OF ALS CANADA LTD
ATTN: BRENDA TREMBLAY
SS2 COMP #7, 2957 BOWERS PL
KAMLOOPS BC V1S 1W5

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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SS2 COMP #7, 2957 BOWERS PL
KAMLOOPS BC V1S 1W5

Finalized Date: 17-JUL-2012
Account: KRL

Project: KM3478

CERTIFICATE OF ANALYSIS VA12158942

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01
KM3478 Comp 1 Hd 1		0.02	0.55	2.13	13	10	4.81	328	10.40	<0.02	26.1	11.6	80	1.89	182.5	26.6
KM3478 Comp 2 Hd 1		0.02	26.8	1.44	>10000	50	2.38	1115	0.93	4.82	36.2	42.5	142	1.83	324	18.30

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

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KAMLOOPS BC V1S 1W5

Finalized Date: 17-JUL-2012
Account: KRL

Project: KM3478

CERTIFICATE OF ANALYSIS VA12158942

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
KM3478 Comp 1 Hd 1		29.8	0.87	1.0	6.37	0.34	8.4	27.2	0.33	5340	40.0	0.28	3.9	7.7	320	5.8
KM3478 Comp 2 Hd 1		15.10	0.41	0.6	2.61	0.35	16.7	17.5	0.55	4080	39.0	0.02	3.3	11.7	180	640

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

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SS2 COMP #7, 2957 BOWERS PL
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Finalized Date: 17-JUL-2012
Account: KRL

Project: KM3478

CERTIFICATE OF ANALYSIS VA12158942

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
KM3478 Comp 1 Hd 1		10.1	0.002	1.18	0.73	2.2	1	270	11.4	0.23	7.46	3.7	0.084	0.06	5.1	22
KM3478 Comp 2 Hd 1		34.4	<0.002	5.83	81.2	4.5	4	55.9	14.0	0.17	10.05	3.1	0.064	1.52	3.9	22

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

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KAMLOOPS BC V1S 1W5

Finalized Date: 17-JUL-2012
Account: KRL

Project: KM3478

CERTIFICATE OF ANALYSIS VA12158942

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5
KM3478 Comp 1 Hd 1		215	8.1	107	33.1
KM3478 Comp 2 Hd 1		29.0	9.8	495	21.6

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

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Finalized Date: 17-JUL-2012
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Project: KM3478

CERTIFICATE OF ANALYSIS VA12158942

Method	CERTIFICATE COMMENTS
ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown.
ME-MS61	REE's may not be totally soluble in this method.

2012 Diamond Drilling, Geological, Geophysics and Geochemical Report

for the

Justin Property and VF Property

Volume IV

Appendix VI – Geophysics Report

Appendix VII – Field Geochemistry Sample Descriptions

Justin 1-4 (YB59913 – YB59916), Justin 5-25 (YB70809 - YB70829), SP 1-50 (YC73232 – YC73281), SP51-55 (YD65452 – YD65456), SP 57-88 (YD87903 – YD87933), SP 89-207 (YF33001 – YF33119) VF1 – 144 (YD25701 - YD25844)

Watson Lake Mining District, Southeastern Yukon Territory

Map sheet 105-H-09

Latitude 61° 42' N, Longitude 128°10'W

Prepared for:

Aben Resources Ltd.

Suite 2230 – 885 West Georgia Street

Vancouver, BC, Canada

V6C 3E8

By

Mike McCuaig, B.Sc

TerraLogic Exploration Inc.

Suite 200, 44-12th Ave S.

Cranbrook, B.C., Canada

V1C 2R7

February 15th, 2013

APPENDIX VI

Geophysics Reports

6.1 – EM Modeling Report

AURORA GEOSCIENCES

NORTHERN GEOLOGICAL & GEOPHYSICAL CONSULTANTS

YELLOWKNIFE - WHITEHORSE - JUNEAU

34A Laberge Road, Whitehorse, YT, Y1A 5Y9 (p) 867.668.7672 (f) 867.393.3577

MEMORANDUM

To: Mike McCuaig
Terralogic Exploration Inc.

Date: 25 July 2012

From: Dave Hildes

Re: Justin EM Modelling

This memorandum is a brief modelling report of the "North EM anomaly" on the Justin Property. The database was reduced to sections of lines 10010 through 10070 and tie line 19031 that covered the anomalous area. The data was modelled with the thin plate algorithm of Maxwell, a software package produced by EMIT (Electromagnetic Imaging Technologies).

In general, the location of the z-data anomalies were modelled but typically not the amplitude – not much emphasis was put on modelling the z-data amplitude as there is a significant discrepancy between the amplitudes at intersections of lines and tie-lines, which suggests there is a systematic problem with the amplitude data. Similarly, only a few lines had significant negative x-data indicative of a systematic problem and therefore on those lines no attempt was made to model the x-data.

	Z off[0] at line intersection	Z off[0] on T19031	Z off[9] at line intersection	Z off[9] on T19031
L10010	931.47	736.76	125.59	137.4
L10020	3612.13	1089.64	252.51	130.98
L10030	3280.63	980.55	350.7	163.47
L10040	2702.39	1731.09	369.01	252.41
L10051	779.43	330.71	130.09	97.9
L10060	227.23	71.22	48.48	40.98
L10070	133.35	56.41	23.16	24.63

There is a trend of increased conductivity that runs almost north-south that is modelled by a suite of flat lying plates (see *N-S trend plates.pdf*). There is another set of conductors that suggests the axis of a fold

running NE-SW (see *NE-SW trend plates.pdf*). The western set of plates are modelled as a triple of steeply dipping plates while the eastern plates are better modelled as flat-lying plates, indicating a crenulation along the fold axis. The northern conductors in both the steeply dipping suite and flat-lying suite are modelled as deeper than the southern and central conductors. In the steeply dipping suite, the northern and central conductor both are modelled with a dip to the NE, while the southern conductor models as steeply dipping to the SW. A hole collared at 546024E, 6839237N with an azimuth of 240 and a dip of 60 is shown on the figure *NE-SW trend plates inclined view.pdf* and intersects the steeply dipping plate approximately at the hinge axis of the inferred fold.

Attached to this memorandum are files of the modelled plates in Maxwell PTE format and Arcview shapefile formats. The following table list the plate properties, referenced to the center top of the plate.

Plate Name	x	y	z	Depth to top	Dip	Dip Dir	Rot	Length	Depth Extent	Cond-Thickness
10010_1	546237	6839565	-51	-100	0	239	0	150	725.2	9
10010_2	546265	6839605	-92	-148	0	239	0	150	96.6	20
10020_1	546094	6839392	-25	-62	0	238	0	100	400	11
10020_3	546532	6839630	-54	-88	0	240	0	100	200	8
10020_2	545833	6839225	-40	-93	0	239	0	50	100	11
10030_1	545825	6839095	-20	-58	0	58	0	75	50	10
10030_2	546471	6839474	-50	-85	0	240	0	100	150	8
10040_1	545971	6839068	-50	-109	0	240	0	100	150	8
10050_thin	545990	6838955	-10	-46	80	238	0	100	80	25
10060	546026	6838888	-	-107	0	240	0	100	350	10

			60							
10020_thin	545885	6839260	-30	-80	80	58	0	125	75	35
10030_40_thin	546010	6839170	0	-49	80	70	0	250	70	50
10070_1	545893	6838698	-70	-99	0	240	0	100	250	10
10070_2	546067	6838793	-70	-106	0	240	0	100	250	10

A line by line description of the modelled plates and response follows. Each line has an associated figure (e.g. *L10010 predicted observed.pdf*) which shows the data in black and the modelled responses in red. All modelled responses were calculated with all the model plates from both the N-S and NE-SW trends.

L10010 – The two z peaks at 545900E and 546175E are too far apart to be caused by a single thin conductor – the estimated depth to achieve this peak separation would be on the order of 200 metres which would exceed the depth penetration of the survey. Therefore the z is better modelled as two horizontal plates (*10010_1* and *10010_2*). The x data is all > 0, indicative of a problem with the x component on this line and it is therefore not considered.

L10020 – The two z peaks at 545840E and 545930E are modelled as a thin conductor at a depth of 30 m below surface steeply dipping to the northeast (*10020_thin*) along with a flat conductor (*10020_1*) to account for the majority of the z response and another flat conductor at 545790 (*10020_2*)to account for the shoulder in the data. Another flat conductor is used for the response at 546430E (*10020_3*) although there is some suggestion in the data that there is a double z peak here. The x data is all > 0, indicative of a problem with the x component on this line and it is therefore not considered.

L10030 - The two z peaks at 546010E and 545955E are modelled as a thin conductor at a depth of less than 10 m below surface steeply dipping to the northeast (*10030_40_thin*) contiguous with a thin sheet modelled for L10040 (see below). The x data is consistent with a thin steeply dipping conductor. The major component of the z amplitude is not however modelled. The peak at 546400E is modelled with a flat sheet (*10030_1)* and another one at 545830E (10030_2). The x data is consistent for a wide or flat lying conductor.

10040 - The two z peaks at 546000Eand 546050E are modelled as a thin conductor at a depth of less than 10 m below surface steeply dipping to the northeast (*10030_40_thin*) contiguous with a thin sheet modelled for L10030 (see above). The major component of the z amplitude is not however modelled. The shoulder at 545890E is modelled with a flat sheet (*10040_1)*. The x data is all > 0, indicative of a problem with the x component on this line and it is therefore not considered.

10051 - The two z peaks at 546030E and 545930E are modelled as a thin conductor at a depth of 10 m below surface steeply dipping to the northeast (*10020_thin*). The x data is generally consistent with a thin steeply dipping conductor. The major component of the z amplitude is not however modelled. The distance between the peaks suggests a deeper body.

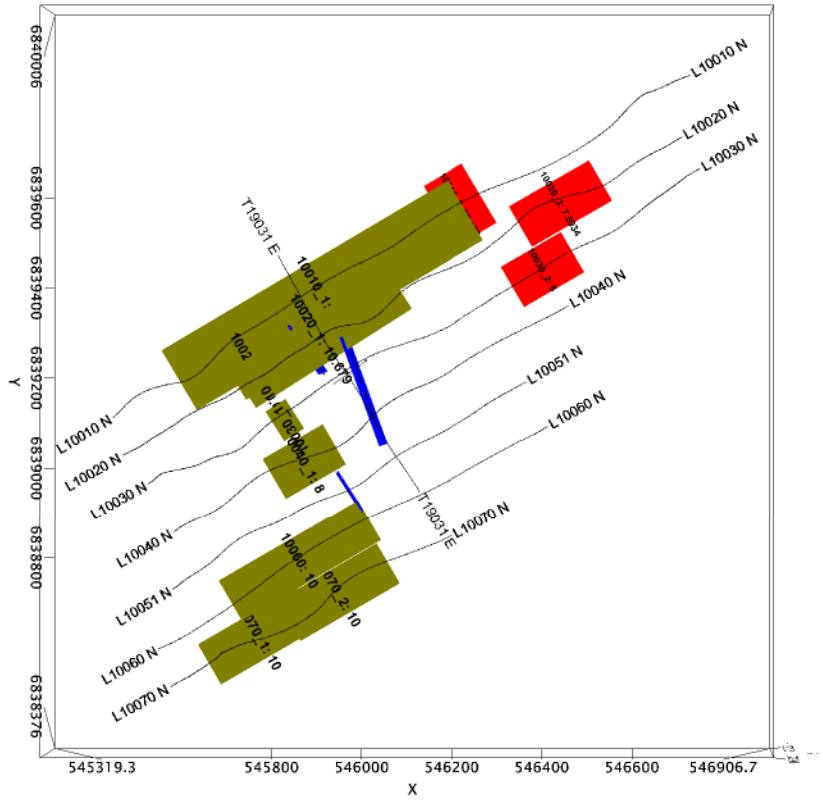
10060 - The single peak at 545870E is modelled as a flat conductor (*10060).* The x data in the area of the conductor is all > 0, indicative of a problem with the x component on this line and it is therefore not considered.

10070 - The two z peaks (at 545940E and 545755E) are too far apart to be caused by a single thin conductor – the estimated depth to achieve this peak separation would be on the order of 150 metres which would exceed the depth penetration of the survey. Therefore the z is better modelled as two horizontal plates (*10070_1* and *10070_2*). The x data is broadly consistent with these plates.

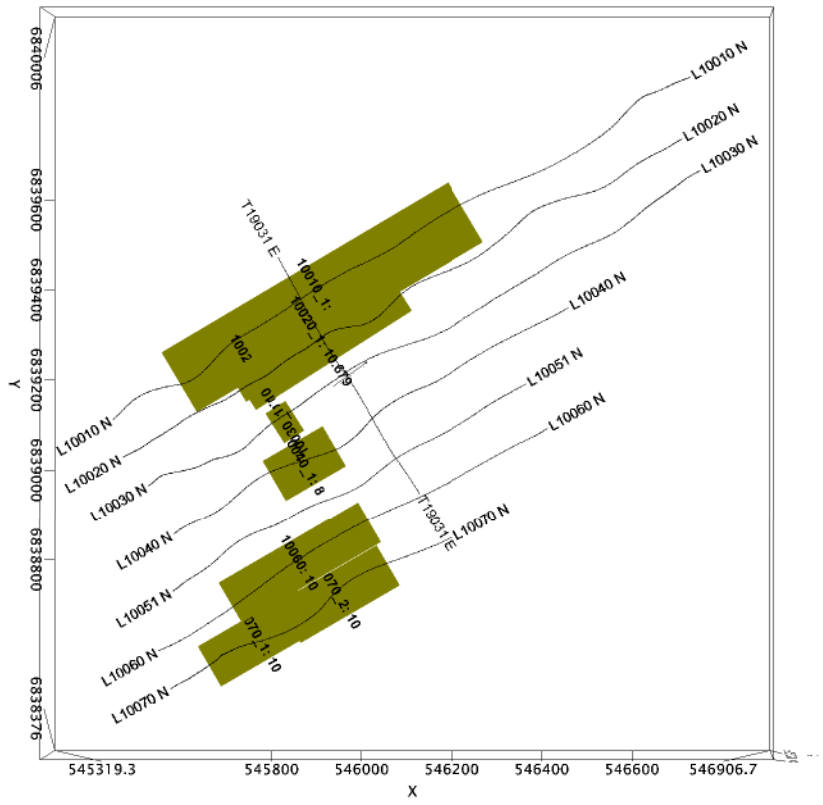
T19031 - The peaks of the tie line are broadly consistent in position with the peaks of the lines, but on L10020 where the amplitude of the z data was matched with a flat plate, the z amplitude on the tie line is greatly over modelled. Upon examination, a comparison of the first and tenth channels show that over the main part of the anomalous area, the line z data is significantly higher than the tie line z data at the intersections, while these two values should be identical. For this reason, little emphasis was put on matching the amplitudes of the z data as there appears to be a systematic error. Similarly the x data in the area of the conductor is all > 0, indicative of a problem with the x component on this line and it is therefore not considered.

Dave Hildes,Ph. D., P.Geo.

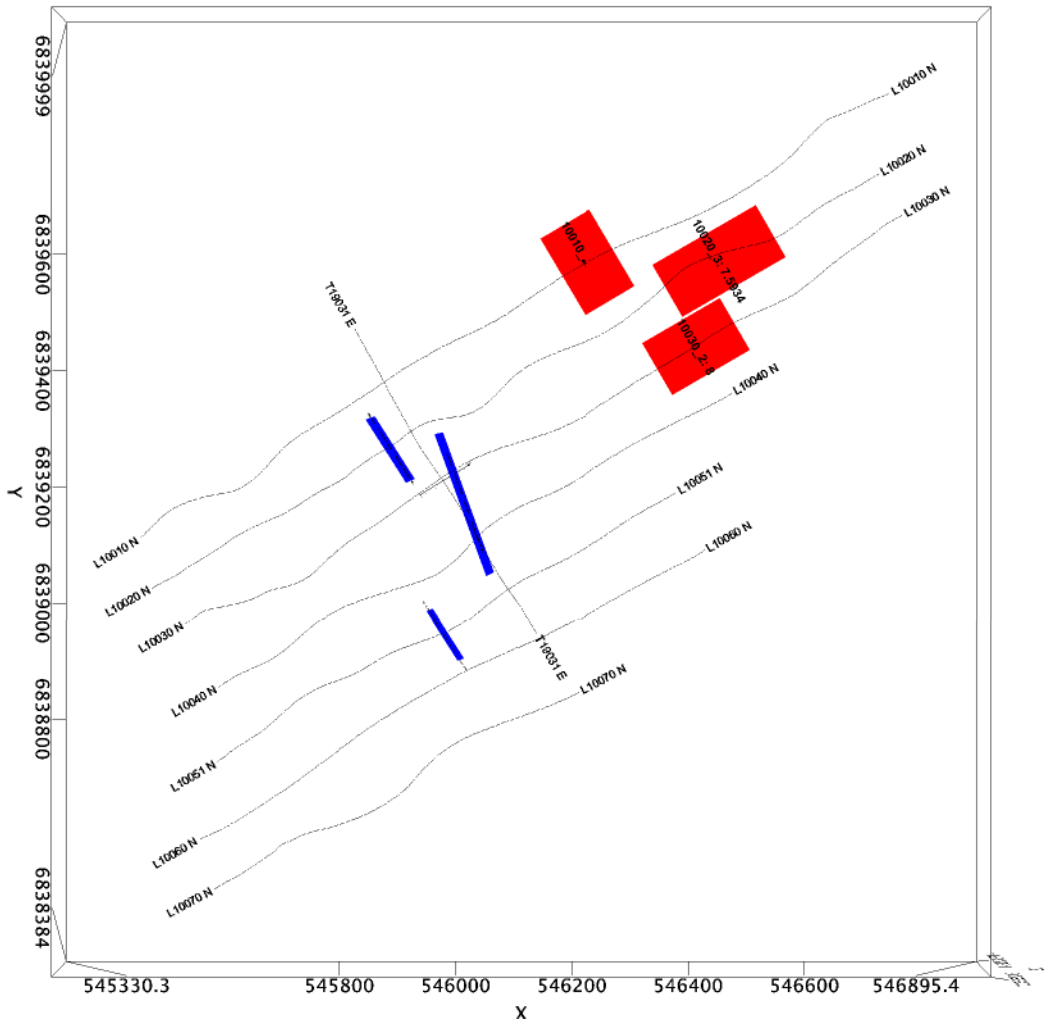
Aurora Geosciences Ltd.



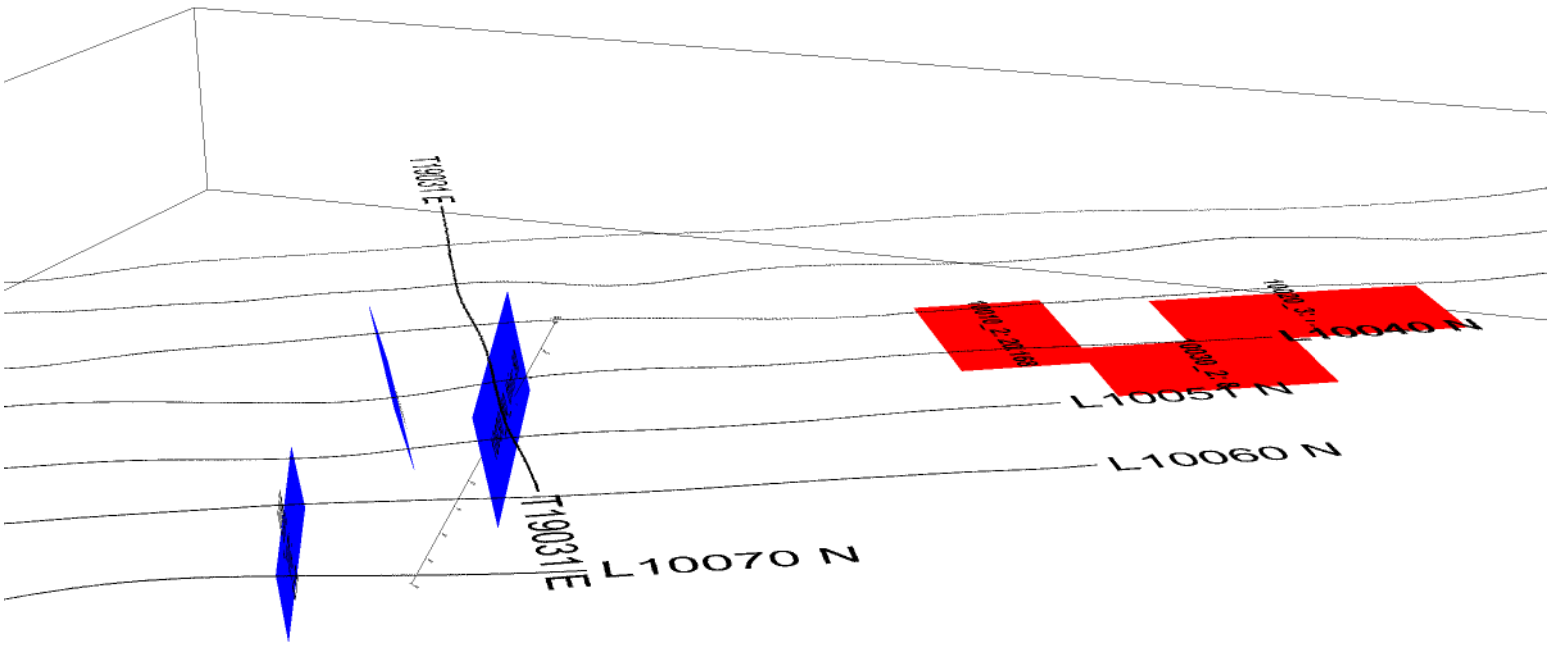
Justin Property - North EM Anomaly
Aeroquest EM Survey
All modelled plates



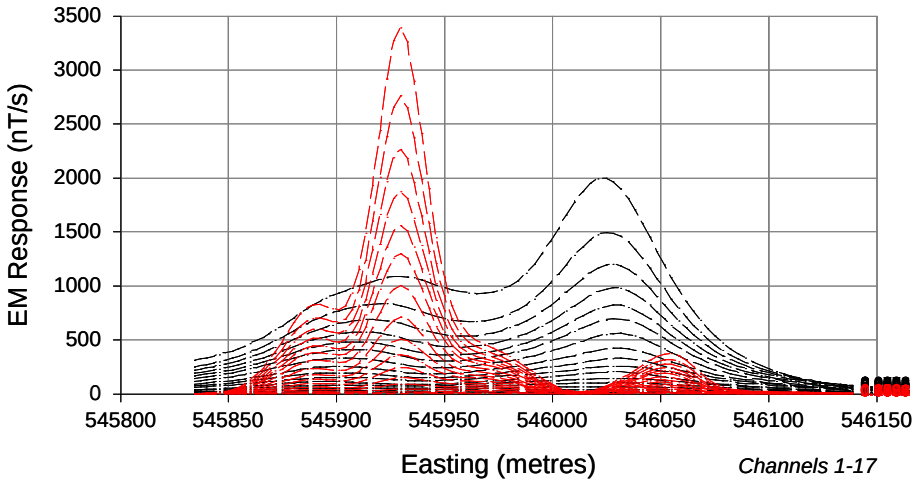
Justin Property - North EM Anomaly
Aeroquest EM Survey
N-S trend of modelled plates

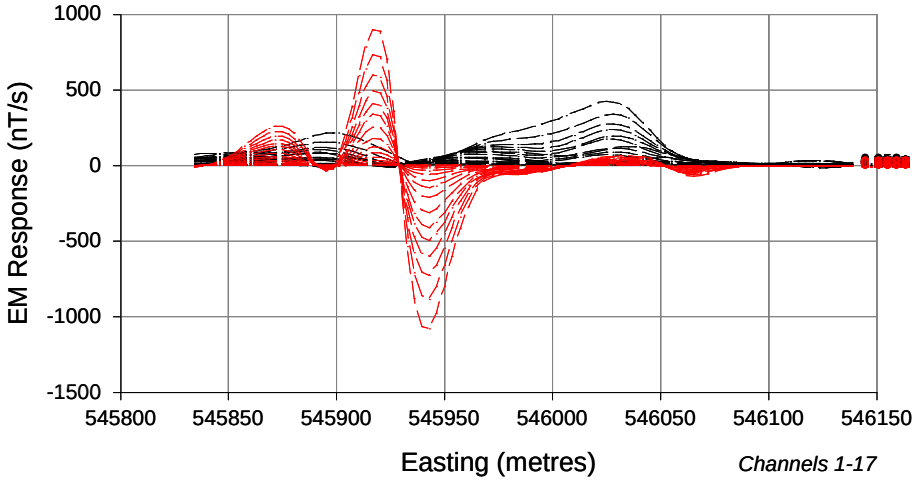


Justin Property - North EM Anomaly
Aeroquest EM Survey
NE-SW trend of modelled plates



Justin Property - North EM Anomaly
Aeroquest EM Survey
NE-SW trend of modelled plates
Inclined view





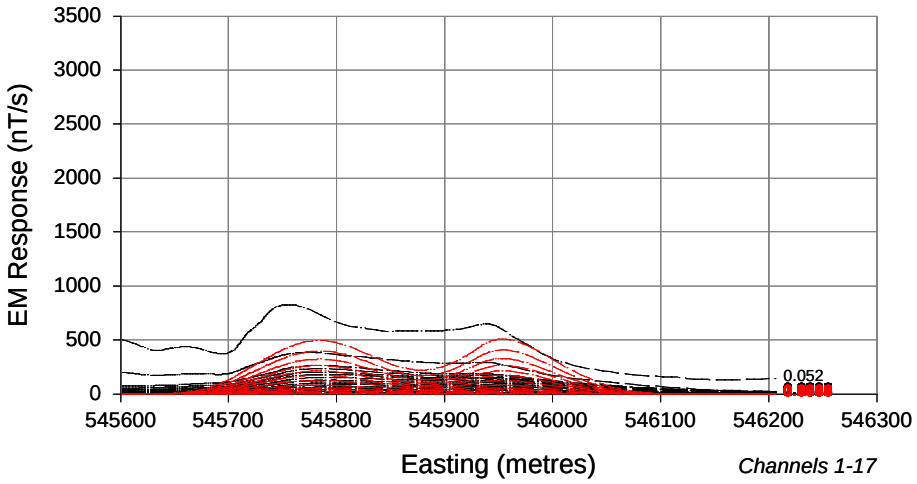
Justin Property - North EM Anomaly

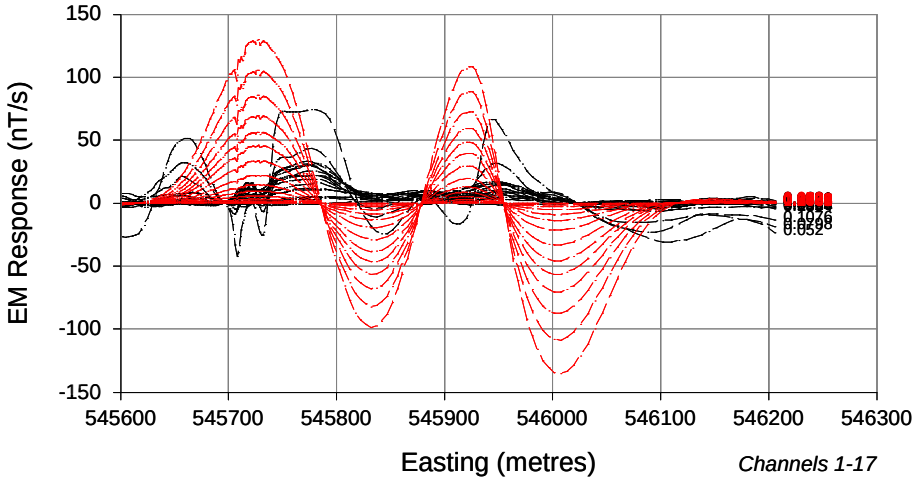
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Tieline 19031





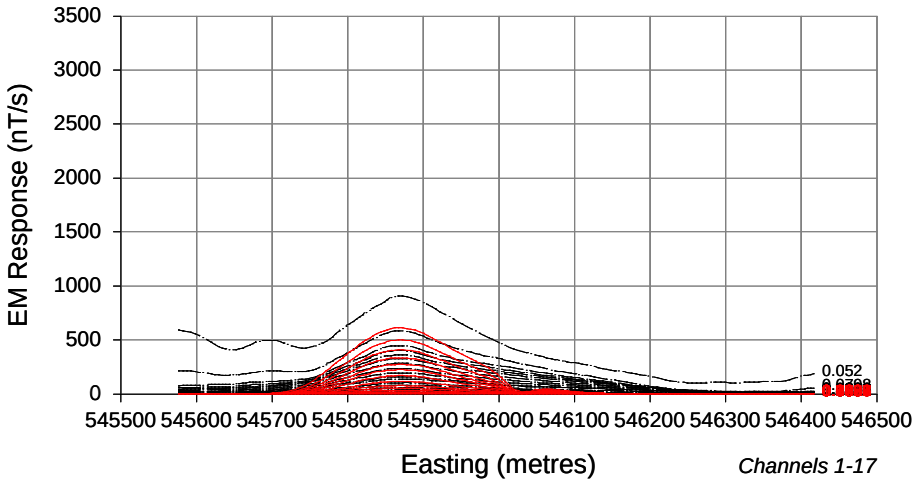
Justin Property - North EM Anomaly

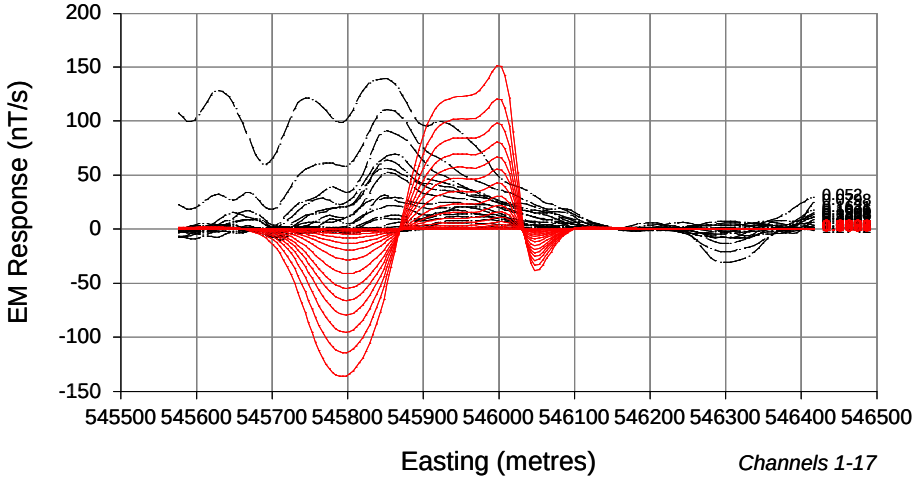
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10070





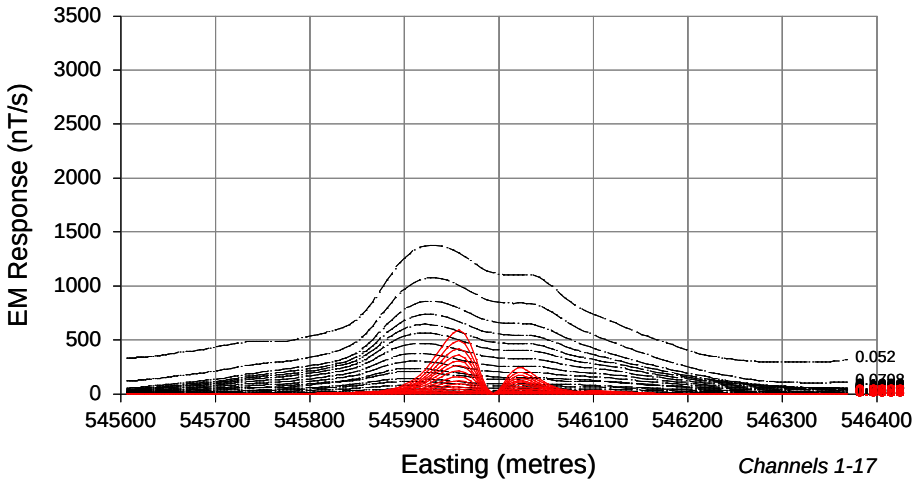
Justin Property - North EM Anomaly

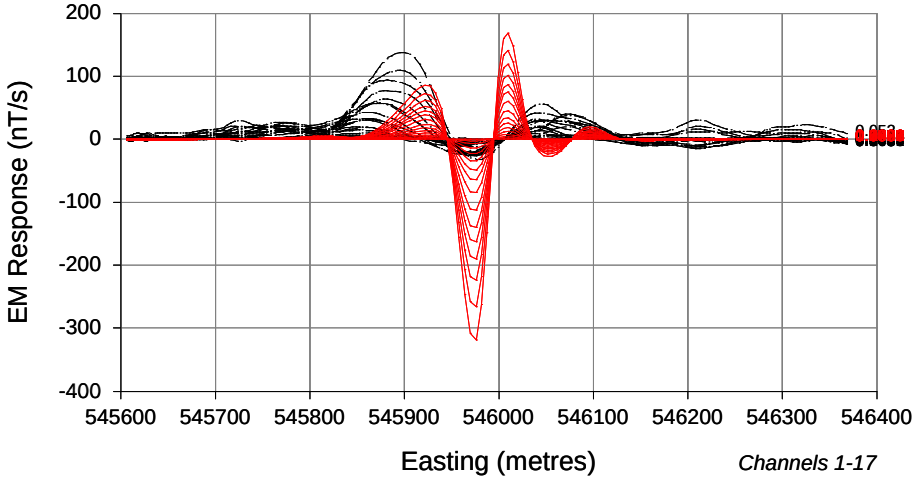
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10060





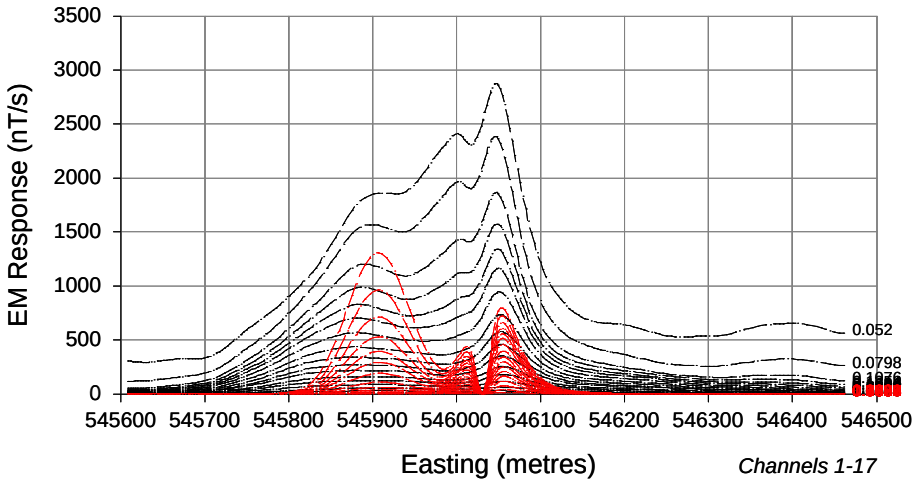
Justin Property - North EM Anomaly

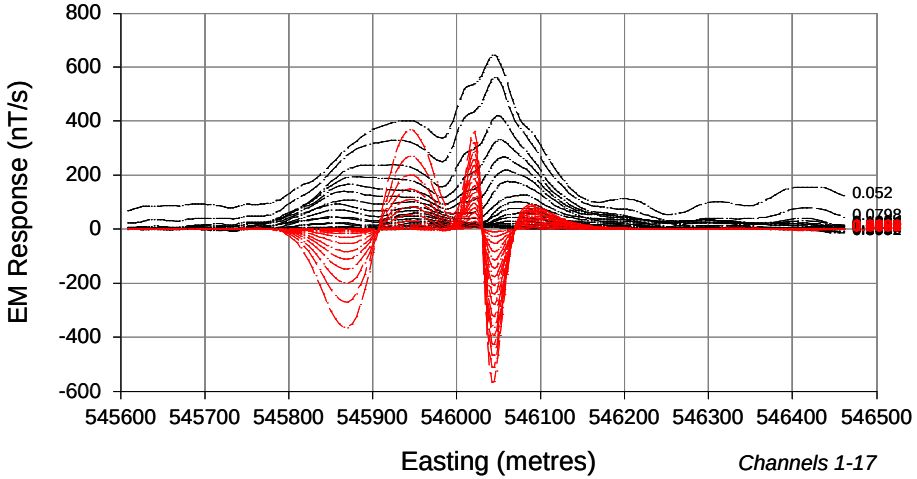
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10051





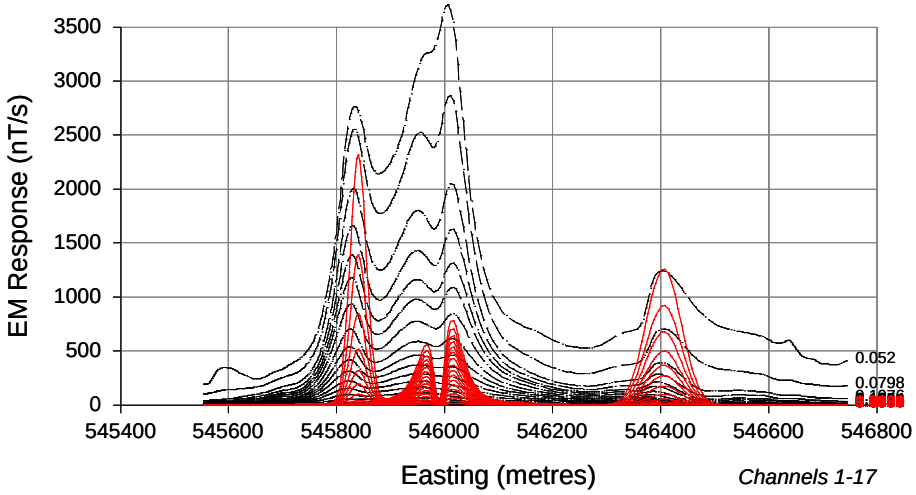
Justin Property - North EM Anomaly

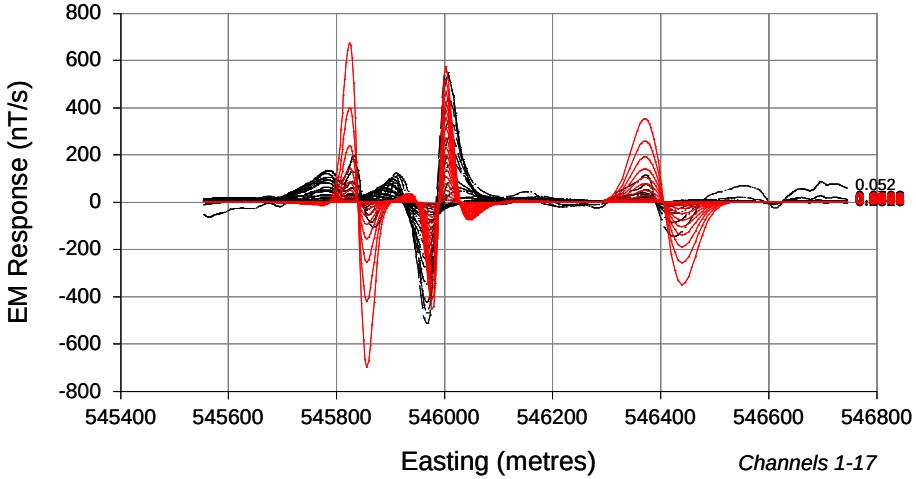
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10040





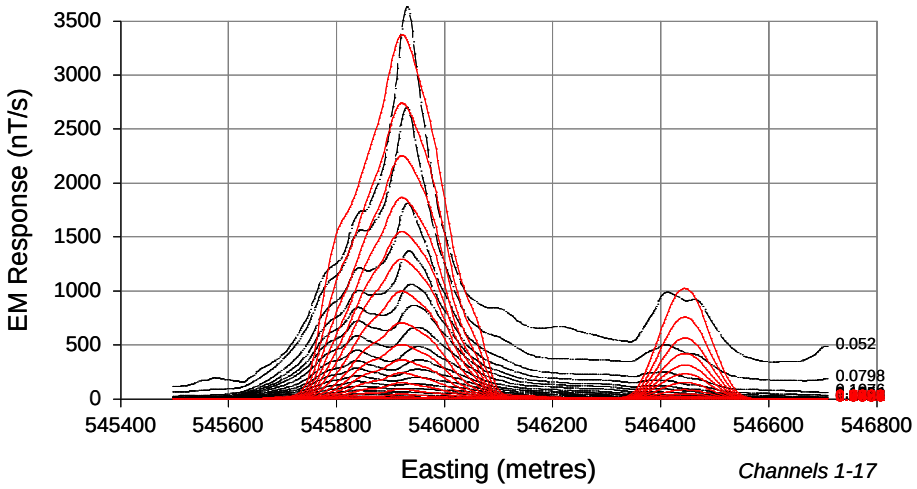
Justin Property - North EM Anomaly

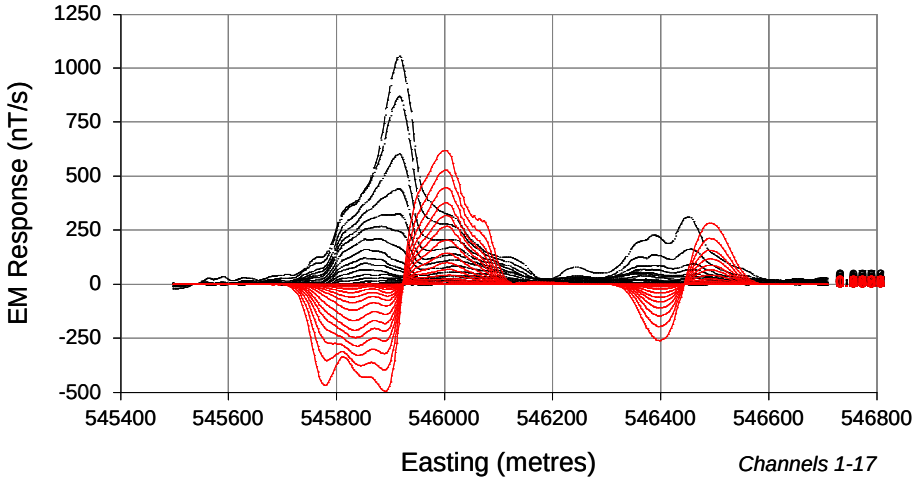
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10030





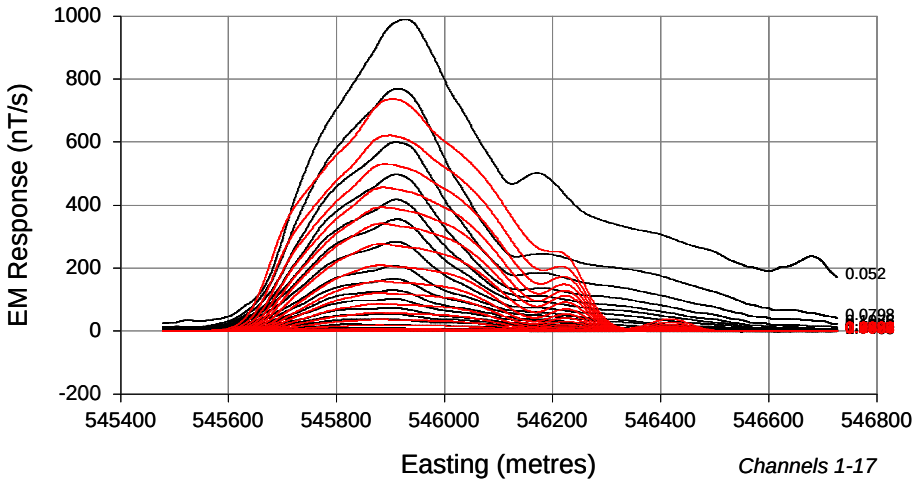
Justin Property - North EM Anomaly

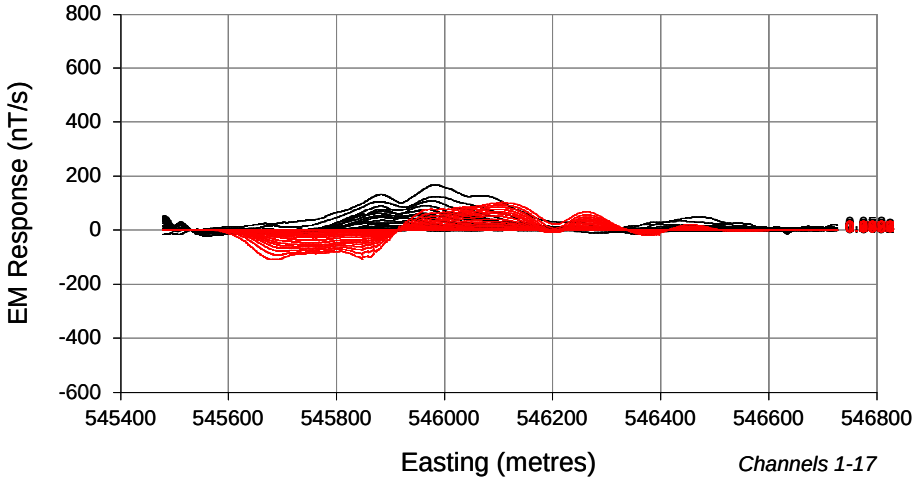
Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10020





Justin Property - North EM Anomaly

Aeroquest EM Survey

Profiles of EM response

Z (upper) and X (lower)

Line 10010

6.2 – Ground Mag Report

AURORA GEOSCIENCES

NORTHERN GEOLOGICAL & GEOPHYSICAL CONSULTANTS

YELLOWKNIFE - WHITEHORSE - JUNEAU

34A Laberge Road, Whitehorse, Yukon, Canada Tel (867) 668-7673 Fax (867) 393-3577

MEMORANDUM

To: Mike McCuaig **Date:** Sept. 12th, 2012

From: Shawn Scott, Aurora Geosciences Ltd.

Re: 2012 Magnetic Survey Field Report

This memorandum is a field report describing the total magnetic field (Mag) survey conducted on the Justin Property, Yukon Territory, from August 1st to August 3rd 2012.

The property was located approximately 10km SE of camp which itself was located at Km 143 on the Nahanni Range Road (UTM 537924E 6847035N NAD83 Z9).

The crew left Whitehorse on the morning of July 31st and drove to the camp via Watson Lake, arriving at 430pm. Daily transportation to the gird was provided by the Fireweed Long Ranger on site. The crew left camp for Whitehorse on August 4th at 930am after a final debrief and hand-off of preliminary data, arriving safely the same day at 730pm.

A total of 26.05 line-kilometres were surveyed at a 10m and 100m station and line spacing, respectively, with lines running nearly NE/SW (36 deg/216 deg). Priority was given to the southern end of the grid where lines 2600-2800 were extended the day before surveying began. From there the crew worked northwards, averaging just under 9km a day.

On several occasions it was necessary to take readings away from the suggested lines (<20m) to avoid unsafe, loose and steep cliff faces. Overall, the terrain, though steep in some places, presented no significant barriers to the safe and efficient implementation of the survey.

A full survey log is attached to this report including a summary of survey production.

FIELD

Crew and equipment.

The survey was conducted by the following personnel:

Shawn Scott	Crew chief
Matthias Zinsli	Helper

The crew was equipped with the following instruments and equipment:

Geophysics tool box	1	Repair tools and spare parts
Laptop with Geosoft	1	FL-115
Office Box	1	
Garmin 60Cx GPS	2	
Iridium Satellite Phone	1	
GEM Magnetometers	4	S/N:2011132 (rover)
		S/N:2011134 (rover)
		S/N:703649 (base)
		S/N: 645552 (spare)

FIELD

Survey Specifications

Station spacing	10m, geo-referenced with non-differential Garmin GPS
Base mag location	538075E 6847572N NAD83 Z9
Base mag time cycle	3 sec
Quality Control	No readings exceeded the set rejection threshold of 3nT per 3sec.

FIELD

Data processing

The magnetic data from the rover was diurnally corrected using GEM 5.0 software. GPS tracks collected with the handheld receivers were used to geo-reference the readings. Each data file, one from each crew member each day, was levelled based loosely on the levelling line which was surveyed daily by each operator. The operator levelled data was further smoothed with a single pass of a non linear filter.

The ground data was then merged with the previous airborne survey. Tie lines were not completed as part of the ground survey. As a result, the databases were merged together following initial levelling. Grid samples of the airborne data were extracted where the ground lines overlapped the airborne data. Manual levelling was applied to the ground data lines based on the sampled data along each ground line or a combination of the averaged dataset where there was little to no overlap between the airborne and ground lines.

Sample data is recorded as a Geosoft .gdb and has been exported as an Ascii .xyz file. The following is a brief explanation of fields included in the final database.

Channel	Channel Description
UTME_NAD83_Z9	UTM Easting - Datum - NAD 83 Zone 9
UTMN_NAD83_Z9	UTM Northing - Datum - NAD 83 Zone 9
LINE	Local Line Coordinates
STN	Local Station Coordinates
MagRaw	Raw – uncorrected - Total Field Magnetic Reading

Channel	Channel Description
Quality	GEM – “quality” Reading
Magcor	Diurnally corrected – Total Field Magnetic Reading
MagLev	Operator Levelled - Total Field Magnetic Reading
FinalMag	Single pass of “non-linear filter” applied
AirSample	Corresponding Grid Data Sampled from Airborne Grid
Difference	FinalMag “minus” AirSample
MergedFinalMag	Final Merged Total Field Mag data with manual levelling applied

Products

The following data files are appended to the digital version of this report:

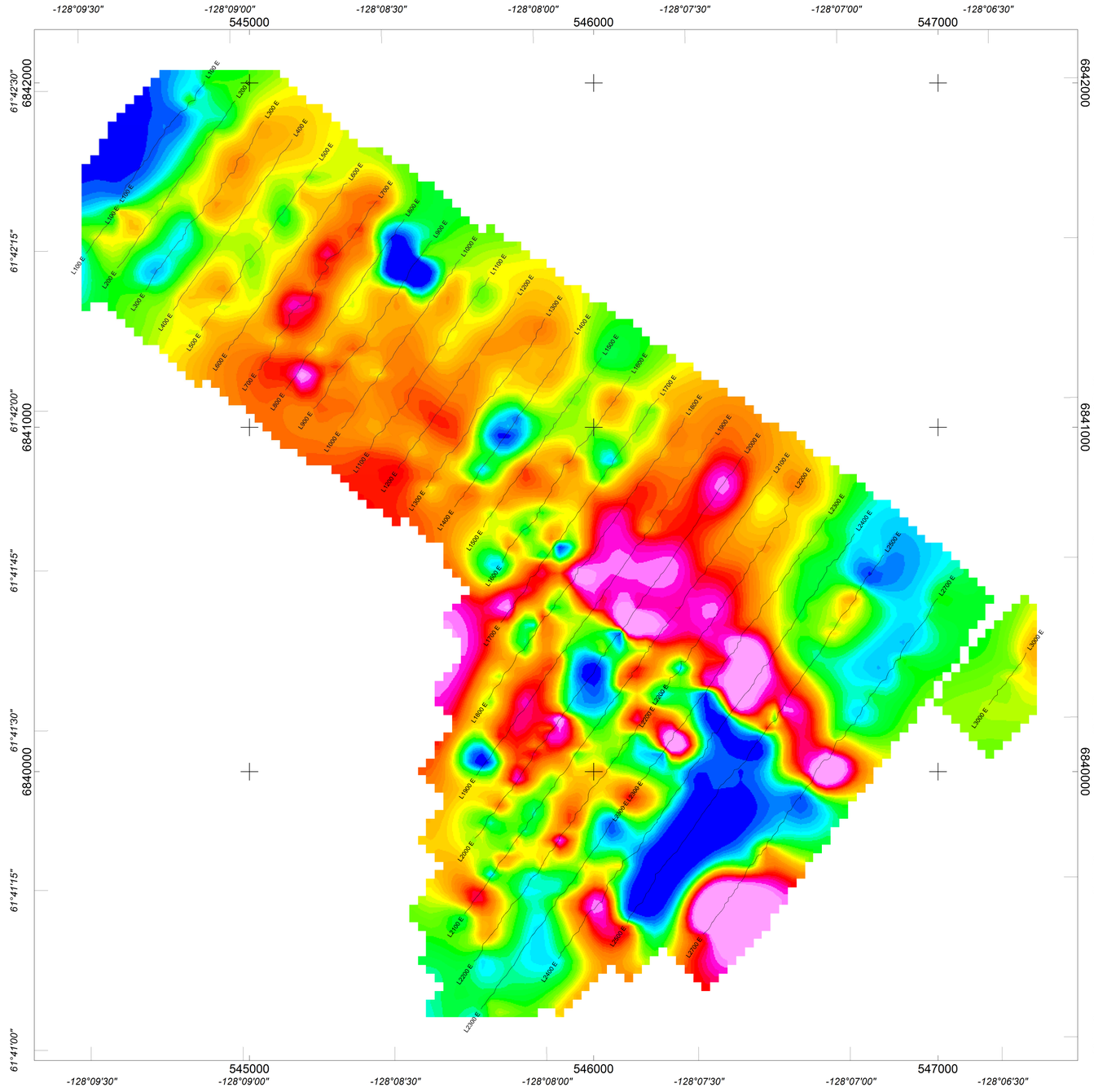
Data	Final data in Geosoft ASCII XYZ and gdb format Merged Justin Mag.xyz & .gdb
Figures	A plotted grid maps of the 2012 ground data (1:10,000) and the merged airborne and ground data (1:50,000) 2012 Ground Survey. pdf & .map Merged Justin Mag.pdf & .map
Raw	A folder with all raw instrument and GPS-location dump files.
Justin Geophysics 2012.pdf	A PDF of this report.
Justin Field Production Summary.pdf	Survey log

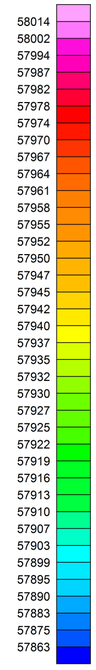
FIELD

Respectfully submitted,

Shawn Scott

AURORA GEOSCIENCES LTD.





Total Magnetic
Field (nT)

LEGEND

TOTAL FIELD MAGNETICS

2012 Ground Survey Specifications

INSTRUMENT : GEM GSM-19T (GPS)

GRIDDING ALGORITHM : MINIMUM CURVATURE

REFERENCE FIELD : 57,500 nT

GRID CELL SIZE : 25 m

GDB FILTER : NON LINEAR - 1 PASS

DATA FILE : Merged Justin Mag.gdb

OPERATORS : SS & MZ

STATION SEPARATION : 10 m

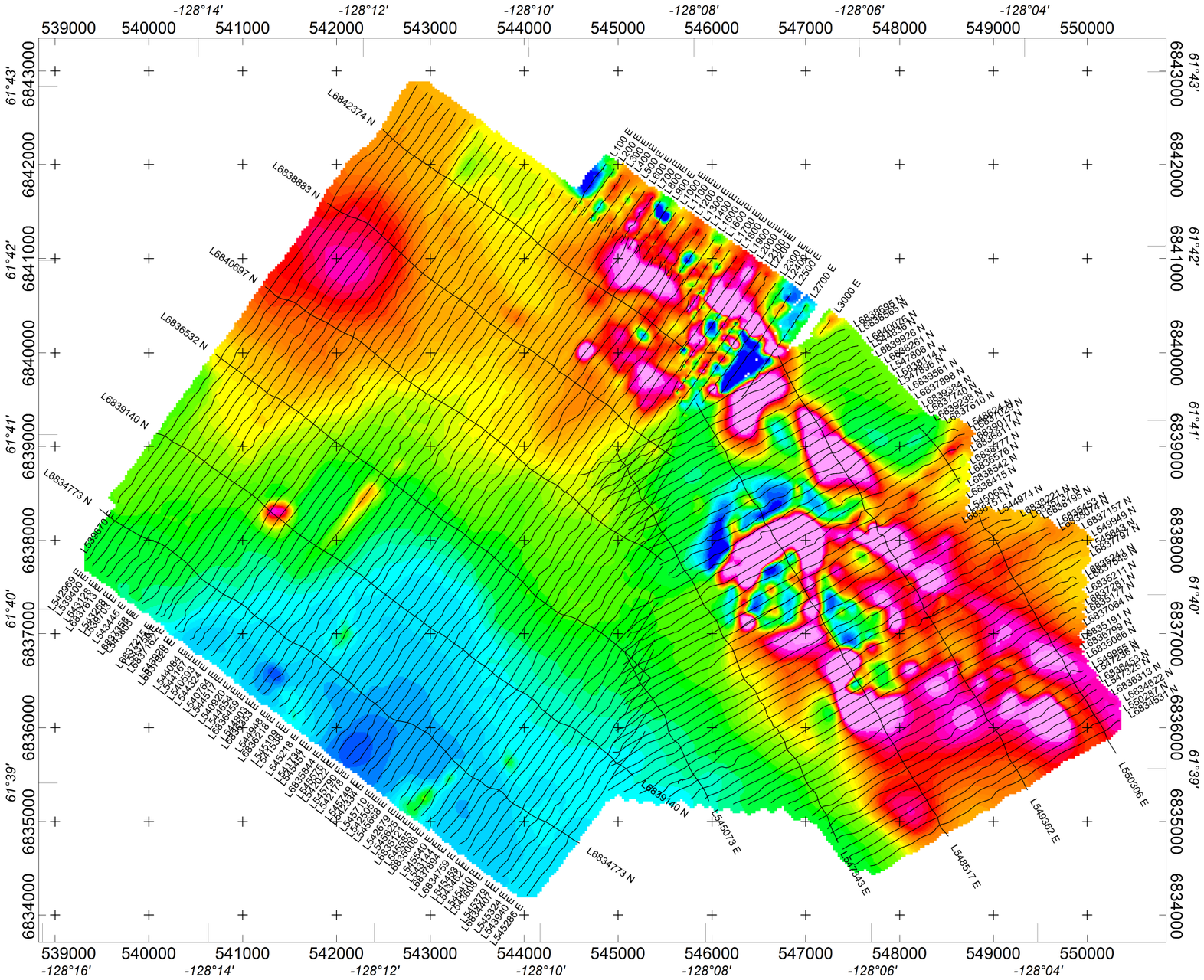
Scale 1:10000

200 0 200 400 600

(meters)

NAD83 / UTM zone 9N

TERRALOGIC EXPLORATION INC.	
2012 GROUND SURVEY **TOTAL MAGNETIC FIELD**	
Loc: YT NTS Sheet: 105 H/09 Proj: UTM Zone 9N Job: TLS-12532-YT	Date Surveyed: AUG 2012 Mining District: Watson Lake Datum: NAD83 Drawn by: PJ
AURORA GEOSCIENCES LTD.	



LEGEND

TOTAL FIELD MAGNETICS

2012 Ground Survey Specifications

INSTRUMENT : GEM GSM-19T (GPS)

GRIDDING ALGORITHM : MINIMUM CURVATURE

REFERENCE FIELD : 57,500 nT

GRID CELL SIZE : 25 m

GDB FILTER : NON LINEAR - 1 PASS

DATA FILE : Merged Justin Mag.gdb

OPERATORS : SS & MZ

STATION SEPARATION : 10 m

Scale 1:50000

500 0 500 1000 1500 2000 2500 3000 3500

(meters)

NAD83 / UTM zone 9N

TERRALOGIC EXPLORATION INC.

MERGED JUSTIN AIRBORNE & 2012 GROUND SURVEY TOTAL MAGNETIC FIELD

Loc: YT
NTS Sheet: 105 H/09
Proj: UTM Zone 9N
Job: TLS-12532-YT

Date Surveyed: AUG 2012
Mining District: Watson Lake
Datum: NAD83
Drawn by: PJ

AURORA GEOSCIENCES LTD.

Weather Day	PERSONNEL : 10 Person-Days	BAD WEATHER : 0 Person-Weather Days	DAYS C
weather day *1/2 weather day*	Shawn Scott	Matthias Zineli	
Current Job	5	5	
May 2012 Totals	0	0	
Jun 2012 Totals	0	0	
Jul 2012 Totals	1	1	
Aug 2012 Totals	4	4	
Tue 31-Jul-2012	Mob to site	Mob to site	
Wed 1-Aug-2012	mag	mag	
Thu 2-Aug-2012	mag	mag	
Fri 3-Aug-2012	mag	mag	
Sat 4-Aug-2012	Demob to Whitehorse	Demob to Whitehorse	

AURORA GEOSCIENCES

TLS-12532-YT Justin Mag

Program	TLS-12532-YT Justin Mag	
GRID/Target/line/Zone	Justin	
Survey/Hole	Mag	-enter grid/line here-
Current Job	26050.000	
Tue 31-Jul-2012	0	
Wed 1-Aug-2012	8750	L3000, 2900, 2800(with extension to S600W), 2700(with extension to S600W), 2600(with extension to S600W), 2500(with extension to S600W), 2400, 2300 (1/2), 2200 (1/2)
Thu 2-Aug-2012	8900	L2300(1/2),L2200(1/2)-L1500
Fri 3-Aug-2012	8400	L100-L1400
Sat 4-Aug-2012	0	

AURORA GEOSCIENCES

TLS-12532-YT Justin Mag

DATE:	Tuesday, July 31, 2012

PREPARED BY:

Shawn Scott

Comments

Weather

Mixed sun and cloud.

LOGISTICS

Type	*Contractor*	*Hrs or units*
Helicopter	Fireweed	0
Truck	Aurora	1
Camp	Aurora	0
Mags	Aurora	4
IP gear	Aurora	0
Other		
Other		

Notes (production comments, incidents, other)

Mobilized from Whitehorse at 7am and arrived at camp around 5pm.
Camp/safety briefing at 7pm.

AURORA GEOSCIENCES

TLS-12532-YT Justin Mag

DATE:	Wednesday, August 01, 2012

PREPARED BY:

Shawn Scott

Comments

Weather

Mixed sun and cloud.

LOGISTICS

Type	*Contractor*	*Hrs or units*
Helicopter	Fireweed	0
Truck	Aurora	1
Camp	Aurora	0
Mags	Aurora	4
IP gear	Aurora	0
Other		
Other		

Notes (production comments, incidents, other)

Arranged extensions for lines 2500-2800 with Mike McCuaig before heading out. Helicopter safety briefing with pilot at 730 am.

AURORA GEOSCIENCES

TLS-12532-YT Justin Mag

DATE:	Thursday, August 02, 2012

PREPARED BY:

Shawn Scott

Comments

Weather

Mixed sun and cloud.

LOGISTICS

Type	*Contractor*	*Hrs or units*
Helicopter	Fireweed	0
Truck	Aurora	1
Camp	Aurora	0
Mags	Aurora	4
IP gear	Aurora	0
Other		
Other		

Notes (production comments, incidents, other)

No problems. Lines 1500-2300. MZ odd numbers and SS evens.

AURORA GEOSCIENCES

TLS-12532-YT Justin Mag

DATE:	Friday, August 03, 2012

PREPARED BY:

Shawn Scott

Comments

Weather

Mixed sun and cloud.

LOGISTICS

Type	*Contractor*	*Hrs or units*
Helicopter	Fireweed	0
Truck	Aurora	1
Camp	Aurora	0
Mags	Aurora	4
IP gear	Aurora	0
Other		
Other		

Notes (production comments, incidents, other)

Finished lines 1400-100, all except 000. SS on odds, MZ on evens.

AURORA GEOSCIENCES

TLS-12532-YT Justin Mag

DATE:	Saturday, August 04, 2012

PREPARED BY:

Shawn Scott

Comments

Weather

Mixed sun and cloud.

LOGISTICS

Type	*Contractor*	*Hrs or units*
Helicopter	Fireweed	0
Truck	Aurora	1
Camp	Aurora	0
Mags	Aurora	4
IP gear	Aurora	0
Other		
Other		

Notes (production comments, incidents, other)

Had a final debrief with Mike McCuaig around 830am and packed the truck for a 930 departure. Arrived in Whitehorse around 730pm.

APPENDIX VII

Field Geochemistry

7.1 – Silt Sample Locations and Descriptions

Appendix 7.1 - Silt Sample Location and Description

29-Oct-12
2:18:57 PM

Sample Number	DATE	USER	Easting	Northing	UTM Zone	Flow	Depth	Sample Size	Quality
JKJNS001	20/07/2012	JK	544927	6840071	9N	MED	5	4	4
JKJNS002	20/07/2012	JK	545056	6840089	9N	LOW	5	5	4
JKJNS003	20/07/2012	JK	545919	6840122	9N	MED	5	4	4
LJJNS001	20/07/2012	LJ	544799	6839903	9N	MED	5	3	4
LJJNS002	21/07/2012	LJ	544714	6839725	9N	MED	5	4	3
LJJNS003	24/07/2012	LJ	547283	6839362	9N	VERY LOW	15	3	3
LJJNS004	01/08/2012	LJ	547101	6842102	9N	MED	5	4	3
RZJNS001	17/07/2012	RZ	546615	6839464	9N	VERY LOW	5	5	5
RZJNS002	23/07/2012	RZ	545797	6837941	9N	LOW	5	4	2
RZJNS003	23/07/2012	RZ	545827	6838613	9N	HIGH	5	5	2
RZJNS004	23/07/2012	RZ	545925	6838891	9N	LOW	15	4	3
RZJNS005	24/07/2012	RZ	547226	6839353	9N	MED	15	5	2
RZJNS006	25/07/2012	RZ	548687	6838943	9N	HIGH	5	4	4
RZJNS007	31/07/2012	RZ	547506	6834640	9N	MED	5	5	3
RZJNS008	31/07/2012	RZ	547510	6834506	9N	MED	5	5	3
RZJNS009	31/07/2012	RZ	547740	6834583	9N	MED	5	5	3
RZJNS010	31/07/2012	RZ	548240	6834852	9N	MED	15	5	3
RZJNS011	31/07/2012	RZ	548491	6834921	9N	MED	5	5	3
RZJNS012	01/08/2012	RZ	548459	6838878	9N	MED	15	5	3
RZJNS013	01/08/2012	RZ	548246	6833749	9N	HIGH	15	5	3
RZJNS014	01/08/2012	RZ	548000	6833644	9N	MED	SELECT	5	2
RZJNS015	01/08/2012	RZ	547767	6833517	9N	MED	SELECT	5	2
RZJNS016	01/08/2012	RZ	547449	6833321	9N	HIGH	5	5	3
RZJNS017	01/08/2012	RZ	547137	6833090	9N	LOW	5	5	2

7.2 – Soil Sample Location and Descriptions

Appendix 7.2 - Soil Sample Location and Description

30-Oct-12
2:02:23 PM

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL013 00+00	LJ	18/07/2012	MAP	544700	6839806
JNL013 00+50E	LJ	18/07/2012	MAP	544752	6839809
JNL013 01+00E	LJ	18/07/2012	MAP	544804	6839812
JNL013 01+50E	LJ	18/07/2012	MAP	544856	6839815
JNL013 02+00E	LJ	18/07/2012	GPS	544908	6839818
JNL013 02+50E	LJ	18/07/2012	MAP	544955	6839822
JNL013 03+00E	LJ	18/07/2012	NO SAMPLE	545002	6839826
JNL013 03+50E	LJ	18/07/2012	MAP	545049	6839830
JNL013 04+00E	LJ	18/07/2012	GPS	545096	6839834
JNL013 04+50E	LJ	18/07/2012	MAP	545144.5	6839839.5
JNL013 05+00E	LJ	18/07/2012	MAP	545193	6839845
JNL013 05+50E	LJ	18/07/2012	MAP	545241.5	6839850.5
JNL013 06+00E	LJ	18/07/2012	GPS	545290	6839856
JNL013 06+50E	LJ	18/07/2012	MAP	545339.75	6839854
JNL013 07+00E	LJ	18/07/2012	MAP	545389.5	6839852
JNL013 07+50E	LJ	18/07/2012	MAP	545439.25	6839850
JNL013 08+00E	LJ	18/07/2012	GPS	545489	6839848
JNL013 08+50E	LJ	18/07/2012	MAP	545535.25	6839850.75
JNL013 09+00E	LJ	18/07/2012	MAP	545581.5	6839853.5
JNL013 09+50E	LJ	18/07/2012	MAP	545627.75	6839856.25
JNL013 10+00E	LJ	18/07/2012	GPS	545674	6839859
JNL013 10+50E	LJ	18/07/2012	MAP	545720.5	6839860.375
JNL013 11+00E	LJ	18/07/2012	MAP	545767	6839861.75
JNL013 11+50E	LJ	18/07/2012	MAP	545813.5	6839863.125
JNL013 12+00E	LJ	18/07/2012	MAP	545860	6839864.5
JNL013 12+50E	LJ	18/07/2012	MAP	545906.5	6839865.875
JNL013 13+00E	LJ	18/07/2012	MAP	545953	6839867.25
JNL013 13+50E	LJ	18/07/2012	MAP	545999.5	6839868.625
JNL013 14+00E	LJ	18/07/2012	GPS	546046	6839870
JNL013 14+50E	LJ	18/07/2012	MAP	546094.125	6839873.75
JNL013 15+00E	LJ	18/07/2012	NO SAMPLE	546142.25	6839877.5

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL013 15+50E	LJ	18/07/2012	MAP	546190.375	6839881.25
JNL013 16+00E	LJ	18/07/2012	MAP	546238.5	6839885
JNL013 16+50E	LJ	18/07/2012	MAP	546286.625	6839888.75
JNL013 17+00E	LJ	18/07/2012	MAP	546334.75	6839892.5
JNL013 17+50E	LJ	18/07/2012	MAP	546382.875	6839896.25
JNL013 18+00E	LJ	18/07/2012	GPS	546431	6839900
JNL013 18+50E	LJ	18/07/2012	MAP	546480.75	6839902.25
JNL013 19+00E	LJ	18/07/2012	MAP	546530.5	6839904.5
JNL013 19+50E	LJ	18/07/2012	MAP	546580.25	6839906.75
JNL013 20+00E	LJ	18/07/2012	GPS	546630	6839909
JNL014 00+00	JK	18/07/2012	MAP	548657	6839974
JNL014 00+50W	JK	18/07/2012	MAP	548617.25	6839966.75
JNL014 01+00W	JK	18/07/2012	MAP	548577.5	6839959.5
JNL014 01+50W	JK	18/07/2012	MAP	548537.75	6839952.25
JNL014 02+00W	JK	18/07/2012	MAP	548498	6839945
JNL014 02+50W	JK	18/07/2012	MAP	548456.25	6839939.75
JNL014 03+00W	JK	18/07/2012	MAP	548414.5	6839934.5
JNL014 03+50W	JK	18/07/2012	MAP	548372.75	6839929.25
JNL014 04+00W	JK	18/07/2012	GPS	548331	6839924
JNL014 04+50W	JK	18/07/2012	MAP	548278.75	6839924.5
JNL014 05+00W	JK	18/07/2012	MAP	548226.5	6839925
JNL014 05+50W	JK	18/07/2012	MAP	548174.25	6839925.5
JNL014 06+00W	JK	18/07/2012	MAP	548122	6839926
JNL014 06+50W	JK	18/07/2012	MAP	548065.5	6839911.75
JNL014 07+00W	JK	18/07/2012	MAP	548009	6839897.5
JNL014 07+50W	JK	18/07/2012	MAP	547952.5	6839883.25
JNL014 08+00W	JK	18/07/2012	GPS	547896	6839869
JNL014 08+50W	JK	18/07/2012	MAP	547842	6839866.25
JNL014 09+00W	JK	18/07/2012	MAP	547788	6839863.5
JNL014 09+50W	JK	18/07/2012	MAP	547734	6839860.75
JNL014 10+00W	JK	18/07/2012	GPS	547680	6839858
JNL014 10+50W	LJ	19/07/2012	GPS	547624	6839847
JNL014 11+00W	LJ	19/07/2012	MAP	547578.66666667	6839840

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL014 11+50W	LJ	19/07/2012	MAP	547533.33333333	6839833
JNL014 12+00W	LJ	19/07/2012	GPS	547488	6839826
JNL014 12+50W	LJ	19/07/2012	MAP	547442.5	6839835.25
JNL014 13+00W	LJ	19/07/2012	MAP	547397	6839844.5
JNL014 13+50W	LJ	19/07/2012	MAP	547351.5	6839853.75
JNL014 14+00W	LJ	19/07/2012	GPS	547306	6839863
JNL014 14+50W	LJ	19/07/2012	MAP	547257.75	6839868.5
JNL014 15+00W	LJ	19/07/2012	MAP	547209.5	6839874
JNL014 15+50W	LJ	19/07/2012	MAP	547161.25	6839879.5
JNL014 16+00W	LJ	19/07/2012	GPS	547113	6839885
JNL014 16+50W	LJ	19/07/2012	MAP	547067.75	6839885.75
JNL014 17+00W	LJ	19/07/2012	MAP	547022.5	6839886.5
JNL014 17+50W	LJ	19/07/2012	MAP	546977.25	6839887.25
JNL014 18+00W	LJ	19/07/2012	GPS	546932	6839888
JNL014 18+50W	LJ	19/07/2012	MAP	546883.25	6839884.75
JNL014 19+00W	LJ	19/07/2012	MAP	546834.5	6839881.5
JNL014 19+50W	LJ	19/07/2012	MAP	546785.75	6839878.25
JNL014 20+00W	LJ	19/07/2012	GPS	546737	6839875
JNL015 00+00	JK	20/07/2012	GPS	544707	6840051
JNL015 00+50E	JK	20/07/2012	MAP	544753	6840056.87
JNL015 01+00E	JK	20/07/2012	MAP	544799	6840062.75
JNL015 01+50E	JK	20/07/2012	MAP	544845	6840068.62
JNL015 02+00E	JK	20/07/2012	MAP	544891	6840074.5
JNL015 02+50E	JK	20/07/2012	MAP	544937	6840080.37
JNL015 03+00E	JK	20/07/2012	MAP	544983	6840086.25
JNL015 03+50E	JK	20/07/2012	MAP	545029	6840092.12
JNL015 04+00E	JK	20/07/2012	GPS	545075	6840098
JNL015 04+50E	JK	20/07/2012	MAP	545123.875	6840100.37
JNL015 05+00E	JK	20/07/2012	MAP	545172.75	6840102.75
JNL015 05+50E	JK	20/07/2012	MAP	545221.625	6840105.12
JNL015 06+00E	JK	20/07/2012	MAP	545270.5	6840107.5
JNL015 06+50E	JK	20/07/2012	MAP	545319.375	6840109.87
JNL015 07+00E	JK	20/07/2012	MAP	545368.25	6840112.25

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL015 07+50E	JK	20/07/2012	MAP	545417.125	6840114.62
JNL015 08+00E	JK	20/07/2012	GPS	545466	6840117
JNL015 08+50E	JK	20/07/2012	MAP	545513.5	6840116.37
JNL015 09+00E	JK	20/07/2012	MAP	545561	6840115.75
JNL015 09+50E	JK	20/07/2012	MAP	545608.5	6840115.12
JNL015 10+00E	JK	20/07/2012	MAP	545656	6840114.5
JNL015 10+50E	JK	20/07/2012	MAP	545703.5	6840113.87
JNL015 11+00E	JK	20/07/2012	MAP	545751	6840113.25
JNL015 11+50E	JK	20/07/2012	MAP	545798.5	6840112.62
JNL015 12+00E	JK	20/07/2012	GPS	545846	6840112
JNL015 12+50E	JK	20/07/2012	MAP	545891.75	6840113.81
JNL015 13+00E	JK	20/07/2012	MAP	545937.5	6840115.62
JNL015 13+50E	JK	20/07/2012	MAP	545983.25	6840117.43
JNL015 14+00E	JK	20/07/2012	MAP	546029	6840119.25
JNL015 14+50E	JK	20/07/2012	MAP	546074.75	6840121.06
JNL015 15+00E	JK	20/07/2012	MAP	546120.5	6840122.87
JNL015 15+50E	JK	20/07/2012	MAP	546166.25	6840124.68
JNL015 16+00E	JK	20/07/2012	GPS	546212	6840126.5
JNL015 16+50E	JK	20/07/2012	MAP	546257.75	6840128.31
JNL015 17+00E	JK	20/07/2012	MAP	546303.5	6840130.12
JNL015 17+50E	JK	20/07/2012	MAP	546349.25	6840131.93
JNL015 18+00E	JK	20/07/2012	MAP	546395	6840133.75
JNL015 18+50E	JK	20/07/2012	MAP	546440.75	6840135.56
JNL015 19+00E	JK	20/07/2012	GPS	546486.5	6840137.37
JNL015 19+50E	JK	21/07/2012	MAP	546532.25	6840139.18
JNL015 20+00E	JK	21/07/2012	GPS	546578	6840141
JNL015 20+50E	JK	21/07/2012	MAP	546626.375	6840139
JNL015 21+00E	JK	21/07/2012	MAP	546674.75	6840137
JNL015 21+50E	JK	21/07/2012	MAP	546723.125	6840135
JNL015 22+00E	JK	21/07/2012	MAP	546771.5	6840133
JNL015 22+50E	JK	21/07/2012	MAP	546819.875	6840131
JNL015 23+00E	JK	21/07/2012	MAP	546868.25	6840129
JNL015 23+50E	JK	21/07/2012	MAP	546916.625	6840127

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL015 24+00E	JK	21/07/2012	MAP	546965	6840125
JNL015 24+50E	JK	21/07/2012	MAP	547015.5	6840117.5
JNL015 25+00E	JK	21/07/2012	GPS	547066	6840110
JNL016 00+00	LJ	22/07/2012	GPS	546088	6835308
JNL016 00+50E	LJ	22/07/2012	MAP	546136.5	6835297.25
JNL016 01+00E	LJ	22/07/2012	MAP	546185	6835286.5
JNL016 01+50E	LJ	22/07/2012	MAP	546233.5	6835275.75
JNL016 02+00E	LJ	22/07/2012	GPS	546282	6835265
JNL016 02+50E	LJ	22/07/2012	MAP	546329.75	6835250.75
JNL016 03+00E	LJ	22/07/2012	MAP	546377.5	6835236.5
JNL016 03+50E	LJ	22/07/2012	MAP	546425.25	6835222.25
JNL016 04+00E	LJ	22/07/2012	GPS	546473	6835208
JNL016 04+50E	LJ	22/07/2012	MAP	546521.25	6835201.75
JNL016 05+00E	LJ	22/07/2012	MAP	546569.5	6835195.5
JNL016 05+50E	LJ	22/07/2012	MAP	546617.75	6835189.25
JNL016 06+00E	LJ	22/07/2012	GPS	546666	6835183
JNL016 06+50E	LJ	22/07/2012	MAP	546719.25	6835190.75
JNL016 07+00E	LJ	22/07/2012	MAP	546772.5	6835198.5
JNL016 07+50E	LJ	22/07/2012	MAP	546825.75	6835206.25
JNL016 08+00E	LJ	22/07/2012	GPS	546879	6835214
JNL016 08+50E	LJ	22/07/2012	MAP	546926.5	6835222.25
JNL016 09+00E	LJ	22/07/2012	MAP	546974	6835230.5
JNL016 09+50E	LJ	22/07/2012	MAP	547021.5	6835238.75
JNL016 10+00E	LJ	22/07/2012	MAP	547069	6835247
JNL016 10+50E	LJ	23/07/2012	GPS	547118	6835252
JNL016 11+00E	LJ	23/07/2012	MAP	547313.5	6835291
JNL016 11+50E	LJ	23/07/2012	MAP	547366	6835293
JNL016 12+00E	LJ	23/07/2012	GPS	547261	6835289
JNL016 12+50E	LJ	23/07/2012	MAP	547418.5	6835295
JNL016 13+00E	LJ	23/07/2012	MAP	547521	6835300.75
JNL016 13+50E	LJ	23/07/2012	MAP	547571	6835304.5
JNL016 14+00E	LJ	23/07/2012	GPS	547471	6835297
JNL016 14+50E	LJ	23/07/2012	MAP	547621	6835308.25

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL016 15+00E	LJ	23/07/2012	MAP	547721	6835327.5
JNL016 15+50E	LJ	23/07/2012	MAP	547771	6835343
JNL016 16+00E	LJ	23/07/2012	GPS	547671	6835312
JNL016 16+50E	LJ	23/07/2012	MAP	547821	6835358.5
JNL016 17+00E	LJ	23/07/2012	MAP	547912	6835402.75
JNL016 17+50E	LJ	23/07/2012	MAP	547953	6835431.5
JNL016 18+00E	LJ	23/07/2012	GPS	547871	6835374
JNL016 18+50E	LJ	23/07/2012	NO SAMPLE	547994	6835460.25
JNL016 19+00E	LJ	23/07/2012	MAP	548089.25	6835478.75
JNL016 19+50E	LJ	23/07/2012	MAP	548143.5	6835468.5
JNL016 20+00E	LJ	23/07/2012	GPS	548035	6835489
JNL016 20+50E	LJ	23/07/2012	MAP	548197.75	6835458.25
JNL016 21+00E	LJ	23/07/2012	MAP	548302.5	6835443.25
JNL016 21+50E	LJ	23/07/2012	MAP	548353	6835438.5
JNL016 22+00E	LJ	23/07/2012	GPS	548252	6835448
JNL016 22+50E	LJ	23/07/2012	MAP	548403.5	6835433.75
JNL016 23+00E	LJ	23/07/2012	MAP	548504	6835447.25
JNL016 23+50E	LJ	23/07/2012	MAP	548554	6835465.5
JNL016 24+00E	LJ	23/07/2012	MAP	548454	6835429
JNL016 24+50E	LJ	23/07/2012	MAP	548604	6835483.75
JNL016 25+00E	LJ	23/07/2012	MAP	548705	6835496
JNL016 25+50E	LJ	23/07/2012	MAP	548756	6835490
JNL016 26+00E	LJ	23/07/2012	GPS	548654	6835502
JNL016 26+50E	LJ	23/07/2012	MAP	548807	6835484
JNL016 27+00E	LJ	23/07/2012	MAP	548906.75	6835457.5
JNL016 27+50E	LJ	23/07/2012	MAP	548955.5	6835437
JNL016 28+00E	LJ	23/07/2012	GPS	548858	6835478
JNL016 28+50E	LJ	23/07/2012	MAP	549004.25	6835416.5
JNL016 29+00E	LJ	23/07/2012	MAP	549097.25	6835371.5
JNL016 29+50E	LJ	23/07/2012	MAP	549141.5	6835347
JNL016 30+00E	LJ	23/07/2012	GPS	549053	6835396
JNL016 30+50E	LJ	23/07/2012	MAP	549185.75	6835322.5
JNL016 31+00E	LJ	23/07/2012	MAP	549351.5	6835180

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL016 31+50E	LJ	23/07/2012	MAP	547165.66	6835264.3
JNL016 32+00E	LJ	23/07/2012	GPS	549230	6835298
JNL016 32+50E	LJ	23/07/2012	MAP	547213.33	6835276.6
JNL016 33+00E	LJ	23/07/2012	MAP	549270.5	6835258.6
JNL016 33+50E	LJ	23/07/2012	MAP	549311	6835219.3
JNL016 34+00E	LJ	23/07/2012	MAP	549392	6835140.6
JNL016 34+50E	LJ	23/07/2012	MAP	549432.5	6835101.3
JNL016 35+00E	LJ	23/07/2012	GPS	549473	6835062
JNL017 00+00	JK	23/07/2012	GPS	547166	6840317
JNL017 00+50W	JK	23/07/2012	MAP	547116.2	6840315.5
JNL017 01+00W	JK	23/07/2012	MAP	547066.4	6840314
JNL017 01+50W	JK	23/07/2012	MAP	547016.6	6840312.5
JNL017 02+00W	JK	23/07/2012	MAP	546966.8	6840311
JNL017 02+50W	JK	23/07/2012	MAP	546917	6840309.5
JNL017 03+00W	JK	23/07/2012	MAP	546867.2	6840308
JNL017 03+50W	JK	23/07/2012	MAP	546817.4	6840306.5
JNL017 04+00W	JK	23/07/2012	MAP	546767.6	6840305
JNL017 04+50W	JK	23/07/2012	MAP	546717.8	6840303.5
JNL017 05+00W	JK	23/07/2012	GPS	546668	6840302
JNL017 05+50W	JK	23/07/2012	NO SAMPLE	546617.6	6840304.1
JNL017 06+00W	JK	23/07/2012	MAP	546567.2	6840306.2
JNL017 06+50W	JK	23/07/2012	MAP	546516.8	6840308.3
JNL017 07+00W	JK	23/07/2012	MAP	546466.4	6840310.4
JNL017 07+50W	JK	23/07/2012	MAP	546416	6840312.5
JNL017 08+00W	JK	23/07/2012	MAP	546365.6	6840314.6
JNL017 08+50W	JK	23/07/2012	MAP	546315.2	6840316.7
JNL017 09+00W	JK	23/07/2012	MAP	546264.8	6840318.8
JNL017 09+50W	JK	23/07/2012	MAP	546214.4	6840320.9
JNL017 10+00W	JK	23/07/2012	GPS	546164	6840323
JNL017 10+50W	JK	23/07/2012	MAP	546114.1	6840321.7
JNL017 11+00W	JK	23/07/2012	MAP	546064.2	6840320.4
JNL017 11+50W	JK	23/07/2012	NO SAMPLE	546014.3	6840319.1
JNL017 12+00W	JK	23/07/2012	MAP	545964.4	6840317.8

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL017 12+50W	JK	23/07/2012	MAP	545914.5	6840316.5
JNL017 13+00W	JK	23/07/2012	MAP	545864.6	6840315.2
JNL017 13+50W	JK	23/07/2012	MAP	545814.7	6840313.9
JNL017 14+00W	JK	23/07/2012	MAP	545764.8	6840312.6
JNL017 14+50W	JK	23/07/2012	MAP	545714.9	6840311.3
JNL017 15+00W	JK	23/07/2012	GPS	545665	6840310
JNL017 15+50W	JK	23/07/2012	MAP	545617	6840310.5
JNL017 16+00W	JK	23/07/2012	GPS	545569	6840311
JNL017 16+50W	JK	24/07/2012	MAP	545518.25	6840308.6
JNL017 17+00W	JK	24/07/2012	MAP	545467.5	6840306.25
JNL017 17+50W	JK	24/07/2012	MAP	545416.75	6840303.8
JNL017 18+00W	JK	24/07/2012	MAP	545366	6840301.5
JNL017 18+50W	JK	24/07/2012	MAP	545315.25	6840299.1
JNL017 19+00W	JK	24/07/2012	MAP	545264.5	6840296.75
JNL017 19+50W	JK	24/07/2012	MAP	545213.75	6840294.3
JNL017 20+00W	JK	24/07/2012	GPS	545163	6840292
JNL017 20+50W	JK	24/07/2012	MAP	545113.2	6840288.4
JNL017 21+00W	JK	24/07/2012	MAP	545063.4	6840284.8
JNL017 21+50W	JK	24/07/2012	MAP	545013.6	6840281.2
JNL017 22+00W	JK	24/07/2012	MAP	544963.8	6840277.6
JNL017 22+50W	JK	24/07/2012	MAP	544914	6840274
JNL017 23+00W	JK	24/07/2012	MAP	544864.2	6840270.4
JNL017 23+50W	JK	24/07/2012	MAP	544814.4	6840266.8
JNL017 24+00W	JK	24/07/2012	MAP	544764.6	6840263.2
JNL017 24+50W	JK	24/07/2012	MAP	544714.8	6840259.6
JNL017 25+00W	JK	24/07/2012	GPS	544665	6840256
JNL019 00+00	LJ	29/07/2012	GPS	549000	6837104
JNL019 00+50W	LJ	29/07/2012	MAP	549050.25	6837108.25
JNL019 01+00W	LJ	29/07/2012	MAP	549100.5	6837112.5
JNL019 01+50W	LJ	29/07/2012	MAP	549150.75	6837116.75
JNL019 02+00W	LJ	29/07/2012	GPS	549201	6837121
JNL019 02+50W	LJ	29/07/2012	MAP	549251.88	6837115.65
JNL019 03+00W	LJ	29/07/2012	MAP	549302.75	6837110.3

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL019 03+50W	LJ	29/07/2012	MAP	549353.33	6837103.26
JNL019 04+00W	LJ	29/07/2012	GPS	549403	6837091
JNL019 04+50W	LJ	29/07/2012	MAP	549451	6837082.5
JNL019 05+00W	LJ	29/07/2012	GPS	549499	6837074
JNL020 00+00	LJ	29/07/2012	GPS	549301	6837262
JNL020 00+50W	LJ	29/07/2012	MAP	549249.83	6837262.33
JNL020 01+00W	LJ	29/07/2012	MAP	549198.67	6837262.67
JNL020 01+50W	LJ	29/07/2012	MAP	549147.5	6837263
JNL020 02+00W	LJ	29/07/2012	MAP	549096.33	6837263.33
JNL020 02+50W	LJ	29/07/2012	MAP	549045.17	6837263.67
JNL020 03+00W	LJ	29/07/2012	MAP	548994	6837264
JNL021 00+00	LJ	29/07/2012	GPS	548969	6837196
JNL021 00+50E	LJ	29/07/2012	MAP	549018.75	6837199.25
JNL021 01+00E	LJ	29/07/2012	MAP	549068.5	6837202.5
JNL021 01+50E	LJ	29/07/2012	MAP	549118.25	6837205.75
JNL021 02+00E	LJ	29/07/2012	GPS	549168	6837209
JNL021 02+50E	LJ	29/07/2012	MAP	549222	6837206.75
JNL021 03+00E	LJ	29/07/2012	MAP	549276	6837204.5
JNL021 03+50E	LJ	29/07/2012	MAP	549330	6837202.25
JNL021 04+00E	LJ	29/07/2012	GPS	549384	6837200
JNL022 00+00	LJ	31/07/2012	GPS	549141	6835972
JNL022 00+50E	LJ	31/07/2012	MAP	549195.15	6835940.99
JNL022 01+00E	LJ	31/07/2012	MAP	549249.29	6835909.98
JNL022 01+50E	LJ	31/07/2012	MAP	549296.74	6835869.95
JNL022 02+00E	LJ	31/07/2012	GPS	549342	6835827
JNL022 02+50E	LJ	31/07/2012	MAP	549375.45	6835790.98
JNL022 03+00E	LJ	31/07/2012	MAP	549407.02	6835753.4
JNL022 03+50E	LJ	31/07/2012	MAP	549436.01	6835713.7
JNL022 04+00E	LJ	31/07/2012	GPS	549465	6835674
JNL022 04+50E	LJ	31/07/2012	MAP	549484	6835625.75
JNL022 05+00E	LJ	31/07/2012	MAP	549503	6835577.5
JNL022 05+50E	LJ	31/07/2012	MAP	549522	6835529.25
JNL022 06+00E	LJ	31/07/2012	GPS	549541	6835481

Sample Number	Sampler	Date	Location Method	Easting	Northing
JNL022 06+50E	LJ	31/07/2012	MAP	549564.75	6835437.25
JNL022 07+00E	LJ	31/07/2012	MAP	549588.5	6835393.5
JNL022 07+50E	LJ	31/07/2012	MAP	549612.25	6835349.75
JNL022 08+00E	LJ	31/07/2012	GPS	549636	6835306
JNL022 08+50E	LJ	31/07/2012	MAP	549655.34	6835259.05
JNL022 09+00E	LJ	31/07/2012	MAP	549674.68	6835212.1
JNL022 09+50E	LJ	31/07/2012	MAP	549690.56	6835163.97
JNL022 10+00E	LJ	31/07/2012	GPS	549704	6835115
JNL022 10+50E	LJ	31/07/2012	MAP	549718.07	6835066.91
JNL022 11+00E	LJ	31/07/2012	MAP	549731.93	6835018.76
JNL022 11+50E	LJ	31/07/2012	MAP	549742.96	6834969.88
JNL022 12+00E	LJ	31/07/2012	GPS	549754	6834921
JNL022 12+50E	LJ	31/07/2012	MAP	549752.97	6834869.5
JNL022 13+00E	LJ	31/07/2012	MAP	549751.94	6834818.01
JNL022 13+50E	LJ	31/07/2012	MAP	549751.45	6834766.51
JNL022 14+00E	LJ	31/07/2012	MAP	549751.97	6834715.01
JNL022 14+50E	LJ	31/07/2012	MAP	549752.48	6834663.5
JNL022 15+00E	LJ	31/07/2012	GPS	549753	6834612
LJJND001	LJ	21/07/2012	GPS	544772	6839686
LJJND002	LJ	21/07/2012	GPS	543637	6839285
RZJND001a	RZ	19/07/2012	GPS	546741	6838505
RZJND001b	RZ	23/07/2012	GPS	545682	6838325
RZJND002	RZ	23/07/2012	GPS	545713	6838326
RZJND003	RZ	23/07/2012	GPS	545834	6838485
RZJND004	RZ	23/07/2012	GPS	545884	6838839
RZJND005	RZ	23/07/2012	GPS	545907	6838869
RZJND006	RZ	23/07/2012	GPS	545870	6838999
RZJND007	RZ	24/07/2012	GPS	545492	6840524
RZJND008	RZ	25/07/2012	GPS	548555	6838961
RZJND009	RZ	25/07/2012	GPS	548589	6838949
RZJND010	RZ	25/07/2012	GPS	548515	6838996
RZJND011	RZ	31/07/2012	GPS	548126	6835334
RZJND012	RZ	31/07/2012	GPS	548101	6835151

Sample Number	Sampler	Date	Location Method	Easting	Northing
RZJND013	RZ	31/07/2012	GPS	548055	6835129
RZJND014	RZ	01/08/2012	GPS	548887	6833651
RZJND015	RZ	01/08/2012	GPS	548848	6833668
RZJND016	RZ	01/08/2012	GPS	548829	6833664
RZJND017	RZ	01/08/2012	GPS	548821	6833763

Appendix 7.2 - Soil Sample Location and Description

Thursday, February 14, 2013
12:43:28 PM

Sample Number	Sampler	Date	Location Method	Easting	Northing
RZVFD001	RZ	7/26/2012	GPS	542924	6835244
RZVFD002	RZ	7/26/2012	GPS	542825	6835414
RZVFD003	RZ	7/26/2012	GPS	544593	6835692
VFL001 00+00	JK	7/25/2012	GPS	542583	6839339
VFL001 00+50E	JK	7/25/2012	MAP	542629.06	6839318.16
VFL001 01+00E	JK	7/25/2012	MAP	542676.19	6839300.03
VFL001 01+50E	JK	7/25/2012	MAP	542724.15	6839284.04
VFL001 02+00E	JK	7/25/2012	MAP	542772.14	6839268.14
VFL001 02+50E	JK	7/25/2012	MAP	542821.82	6839258.78
VFL001 03+00E	JK	7/25/2012	MAP	542871.51	6839249.42
VFL001 03+50E	JK	7/25/2012	MAP	542921.47	6839242.55
VFL001 04+00E	JK	7/25/2012	GPS	542972	6839241
VFL001 04+50E	JK	7/25/2012	MAP	543023.44	6839237.61
VFL001 05+00E	JK	7/25/2012	MAP	543074.91	6839235.56
VFL001 05+50E	JK	7/25/2012	MAP	543126.45	6839236.4
VFL001 06+00E	JK	7/25/2012	MAP	543177.99	6839237.25
VFL001 06+50E	JK	7/25/2012	MAP	543229.34	6839241.77
VFL001 07+00E	JK	7/25/2012	MAP	543280.66	6839246.6
VFL001 07+50E	JK	7/25/2012	MAP	543331.9	6839252.21
VFL001 08+00E	JK	7/25/2012	GPS	543383	6839259
VFL002 00+00	LJ	7/25/2012	GPS	542537	6838381
VFL002 00+25W	LJ	7/25/2012	MAP	542514	6838390
VFL002 00+50W	LJ	7/25/2012	MAP	542491	6838399
VFL002 00+75W	LJ	7/25/2012	MAP	542468	6838408
VFL002 01+00W	LJ	7/25/2012	MAP	542445	6838417
VFL002 01+25W	LJ	7/25/2012	MAP	542422	6838426
VFL002 01+50W	LJ	7/25/2012	MAP	542399	6838435
VFL002 01+75W	LJ	7/25/2012	MAP	542376	6838444
VFL002 02+00W	LJ	7/25/2012	GPS	542353	6838453
VFL002 02+25W	LJ	7/25/2012	MAP	542332.1	6838469
VFL002 02+50W	LJ	7/25/2012	MAP	542311.25	6838485

Sample Number	Sampler	Date	Location Method	Easting	Northing
VFL002 02+75W	LJ	7/25/2012	MAP	542290.3	6838501
VFL002 03+00W	LJ	7/25/2012	MAP	542269.5	6838517
VFL002 03+25W	LJ	7/25/2012	MAP	542248.6	6838533
VFL002 03+50W	LJ	7/25/2012	MAP	542227.75	6838549
VFL002 03+75W	LJ	7/25/2012	MAP	542206.8	6838565
VFL002 04+00W	LJ	7/25/2012	GPS	542186	6838581
VFL002 04+25W	LJ	7/25/2012	MAP	542162.5	6838587
VFL002 04+50W	LJ	7/25/2012	MAP	542139	6838593
VFL002 04+75W	LJ	7/25/2012	MAP	542117	6838603.8
VFL002 05+00W	LJ	7/25/2012	MAP	542095	6838614.6
VFL002 05+25W	LJ	7/25/2012	MAP	542073	6838625.5
VFL002 05+50W	LJ	7/25/2012	MAP	542051	6838636.3
VFL002 05+75W	LJ	7/25/2012	MAP	542029	6838647.1
VFL002 06+00W	LJ	7/25/2012	GPS	542007	6838658
VFL002 06+25W	LJ	7/25/2012	MAP	541988.1	6838676.6
VFL002 06+50W	LJ	7/25/2012	MAP	541969.25	6838695.25
VFL002 06+75W	LJ	7/25/2012	MAP	541950.3	6838713.8
VFL002 07+00W	LJ	7/25/2012	MAP	541931.5	6838732.5
VFL002 07+25W	LJ	7/25/2012	MAP	541912.6	6838751.1
VFL002 07+50W	LJ	7/25/2012	MAP	541893.75	6838769.75
VFL002 07+75W	LJ	7/25/2012	MAP	541874.8	6838788.3
VFL002 08+00W	LJ	7/25/2012	GPS	541856	6838807
VFL002 08+25W	LJ	7/25/2012	MAP	541840.5	6838827.75
VFL002 08+50W	LJ	7/25/2012	MAP	541825	6838848.5
VFL002 08+75W	LJ	7/25/2012	MAP	541809.5	6838869.25
VFL002 09+00W	LJ	7/25/2012	GPS	541794	6838890
VFL003 00+00	JK	7/27/2012	GPS	544668	6837117
VFL003 00+50S	JK	7/27/2012	MAP	544625.1	6837091.6
VFL003 01+00S	JK	7/27/2012	MAP	544582.2	6837066.2
VFL003 01+50S	JK	7/27/2012	MAP	544539.3	6837040.8
VFL003 02+00S	JK	7/27/2012	MAP	544496.4	6837015.4
VFL003 02+50S	JK	7/27/2012	MAP	544453.5	6836990
VFL003 03+00S	JK	7/27/2012	MAP	544410.6	6836964.6

Sample Number	Sampler	Date	Location Method	Easting	Northing
VFL003 03+50S	JK	7/27/2012	MAP	544367.7	6836939.2
VFL003 04+00S	JK	7/27/2012	MAP	544324.8	6836913.8
VFL003 04+50S	JK	7/27/2012	MAP	544281.9	6836888.4
VFL003 05+00S	JK	7/27/2012	GPS	544239	6836863
VFL003 05+50S	JK	7/27/2012	MAP	544198.06	6836830.35
VFL003 06+00S	JK	7/27/2012	MAP	544157.12	6836797.71
VFL003 06+50S	JK	7/27/2012	MAP	544116.18	6836765.06
VFL003 07+00S	JK	7/27/2012	MAP	544075.25	6836732.41
VFL003 07+50S	JK	7/27/2012	MAP	544044.32	6836690.35
VFL003 08+00S	JK	7/27/2012	MAP	544014.26	6836647.48
VFL003 08+50S	JK	7/27/2012	MAP	543984.19	6836604.61
VFL003 09+00S	JK	7/27/2012	MAP	543954.13	6836561.74
VFL003 09+50S	JK	7/27/2012	MAP	543924.06	6836518.87
VFL003 10+00S	JK	7/27/2012	GPS	543894	6836476
VFL003 10+50S	JK	7/27/2012	MAP	543885.16	6836426.01
VFL003 11+00S	JK	7/27/2012	MAP	543876.32	6836376.01
VFL003 11+50S	JK	7/27/2012	MAP	543877.68	6836325.44
VFL003 12+00S	JK	7/27/2012	MAP	543880.78	6836274.76
VFL003 12+50S	JK	7/27/2012	MAP	543891.78	6836225.43
VFL003 13+00S	JK	7/27/2012	MAP	543905.59	6836176.57
VFL003 13+50S	JK	7/27/2012	MAP	543919.39	6836127.71
VFL003 14+00S	JK	7/27/2012	MAP	543933.2	6836078.86
VFL003 14+50S	JK	7/27/2012	MAP	543947	6836030
VFL004 00+00	LJ	7/27/2012	GPS	544431	6835529
VFL004 00+50N	LJ	7/27/2012	MAP	544463.25	6835569
VFL004 01+00N	LJ	7/27/2012	MAP	544495.5	6835609
VFL004 01+50N	LJ	7/27/2012	MAP	544527.75	6835649
VFL004 02+00N	LJ	7/27/2012	GPS	544560	6835689
VFL004 02+50N	LJ	7/27/2012	NO SAMPLE	544583.25	6835730.75
VFL004 03+00N	LJ	7/27/2012	MAP	544606.5	6835772.5
VFL004 03+50N	LJ	7/27/2012	MAP	544629.75	6835814.25
VFL004 04+00N	LJ	7/27/2012	GPS	544653	6835856
VFL004 04+50N	LJ	7/27/2012	MAP	544641.62	6835919.04

Sample Number	Sampler	Date	Location Method	Easting	Northing
VFL004 05+00N	LJ	7/27/2012	MAP	544669.82	6835971.22
VFL004 05+50N	LJ	7/27/2012	MAP	544729.86	6835993.24
VFL004 06+00N	LJ	7/27/2012	GPS	544793	6836004
VFL004 06+50N	LJ	7/27/2012	MAP	544760.83	6836045.05
VFL004 07+00N	LJ	7/27/2012	MAP	544713.03	6836066.09
VFL004 07+50N	LJ	7/27/2012	MAP	544663.17	6836081.48
VFL004 08+00N	LJ	7/27/2012	GPS	544613	6836096
VFL004 08+50N	LJ	7/27/2012	MAP	544561.75	6836100
VFL004 09+00N	LJ	7/27/2012	MAP	544510.5	6836104
VFL004 09+50N	LJ	7/27/2012	MAP	544459.25	6836108
VFL004 10+00N	LJ	7/27/2012	GPS	544408	6836112
VFL004 10+50N	LJ	7/27/2012	MAP	544360.76	6836098.14
VFL004 11+00N	LJ	7/27/2012	MAP	544313.52	6836084.28
VFL004 11+50N	LJ	7/27/2012	MAP	544269.35	6836063.72
VFL004 12+00N	LJ	7/27/2012	GPS	544228	6836037
VFL004 12+50N	LJ	7/27/2012	MAP	544184.1	6836006
VFL004 13+00N	LJ	7/27/2012	MAP	544140.19	6835975.01
VFL004 13+50N	LJ	7/27/2012	MAP	544086.76	6835978.76
VFL004 14+00N	LJ	7/27/2012	GPS	544034	6835989
VFL004 14+50N	LJ	7/27/2012	GPS	543979	6835998

7.3 – Rock Sample Location and Descriptions

Appendix 7.3 - Rock Sample Locations and Descriptions

Sample Number	Sample Type	Easting	Northing	Channel Sample Interval (m)	Channel Sample Azimuth (Deg)	Major Rock Type	Colour Fresh	Texture	Mineralization	Mineralization Style	Mineralization %	Alteration	Sample Description
JKJNR001	CHIP	546386	6839524	0.45	300	Quartzite	grey	massive	bismuthinite	INTERSTITIAL	2.00		
JKJNR002	CHIP	546386	6839524	0.20	300	Quartzite	light grey	massive	bismuthinite	INTERSTITIAL	2.00		
JKJNR003	GRAB	546403	6839502			Quartzite	light grey	massive	arsenopyrite	INTERSTITIAL	2.00		
JKJNR004	GRAB	546232	6839296			Basalt	black	vesicular					
JKJNR005	OUTCROP	547814	6839871	0.30	67	Carbonate	white	massive			0.00		
JKJNR006	OUTCROP	547814	6839871			Carbonate	white	massive			0.00		From thickest vein
JKJNR007	OUTCROP	547814	6839871			Carbonate	white	massive			0.00		top vein
JKJNR008	TALUS	546538	6840139			Skarn	dark grey	massive	magnetite	DISSEMINATED	2.00	Skarn	
JKJNR009	TALUS	546770	6840423			Skarn	greenish	amygdaloidal	magnetite	DISSEMINATED	3.00	Skarn	
JKJNR010	FLOAT	546443	6840318			Quartz	grey	massive	pyrite	INTERSTITIAL	3.00	Silica	
JKJNR011	OUTCROP	546451	6840338			Limestone	grey	bedded			0.00		Disseminated pyrite in recrystallized LST
JKJNR012	SUBCROP	546434	6840313			Limestone	grey green	recrystallized	arsenopyrite	INTERSTITIAL	5.00	Silica	
JKJNR013	FLOAT	546798	6841241			Basalt	dark grey	amygdaloidal	magnetite	DISSEMINATED	2.00		
JVJNR001	GRAB	546355	6839473			Conglomerate	white	veined	arsenopyrite	DISSEMINATED	0.50	Silica	
JVJNR002	GRAB	546390	6839516			Quartz Pebble Conglomerate	orangish	vuggy	arsenopyrite	STRINGERS	2.00		
JVJNR003	FLOAT	546415	6839520			Quartz Pebble Conglomerate	orangish	sucrosic	arsenopyrite	BRECCIATED	0.50		
JVJNR004	CHIP	546636	6838689	1.10	230	Skarn	grey green	bedded	magnetite	DISSEMINATED	2.00	Actinolite	
JVJNR005	CHIP	546638	6838694	1.00	230	Skarn	brass	massive	magnetite	MASSIVE	80.00		
JVJNR006	CHIP	546638	6838694	1.00	230	Quartz Feldspar Porphyry	white	porphyritic	pyrite	DISSEMINATED	3.00		
JVJNR007	CHIP	546638	6838694	1.00	230	Siltstone	brownish	bedded	pyrite	VEINLETS	3.00	Clay	
JVJNR008	CHIP	546778	6838605	0.70	90	Calcareous phyllite	grey	bedded	arsenopyrite	STRINGERS	1.00	Chlorite	
JVJNR009	CHIP	546488	6839362	0.50	90	Granodiorite	maroon	equigranular	molybdenite	BLEBBY	0.50	Sericitic	
LJJNR001	OUTCROP	546577	6839525	2.00		Siltstone	dark grey	massive			0.00		
LJJNR002	OUTCROP	546577	6839525		65	Siltstone	dark grey	massive			0.00		2.00 m chip
LJJNR004	OUTCROP	545113	6839466			Skarn	green	vesicular			0.00		Sampled small skar pd im QFP
LJJNR005	FLOAT	544495	6839161			Quartz Pebble Conglomerate	light grey		pyrite	VEINLETS	1.00	Silica	
LJJNR006	OUTCROP	543511	6838936	2.00	40	Contact - Lithologic					0.00		2 m chip sample from phyllite to sandstone across contact, where there is semi massive arsenopyrite +/-pyrite. Mineralized rock is stained green with scoridite. Tag and flag labelled as LJJNR005 in the field.
LJJNR007	OUTCROP	546072	6835979			Phyllite	bluish				0.00		Sample contains quartz vein material, with chalcopyrite mineralization with in vein. Vein is aprox 40cm wide but only some small sections contain mineralization.
LJJNR008	OUTCROP	546009	6835963			Phyllite	bluish				0.00		Sample contains quartz vein material, vein is 15-20cm wide, but only some small sections contain blebby chalcopyrite mineralization.
LJJNR009	OUTCROP	548997	6835420			Phyllite	bluish				0.00		Sample contains qrtz vein material. Trace arseno seen in vein.
LJJNR010	FLOAT	547238	6839363			Skarn	greenish	banded	other				
LJJNR011	RUBBLE	547211	6840994			Skarn	greenish				0.00		Sample contains fine grained skarn rock,with disseminated magnetite and pyrite
LJJNR012	OUTCROP	546821	6841236			Limestone	bluish	bedded			0.00		Sample contains quartz calite vein material.
LJJNR013	OUTCROP	543814	6841455	0.50	125	Basalt	greenish	aphanitic			0.00		0.5m chip sample across limestone on western contact of mafic dike.
LJJNR014	OUTCROP	543814	6841455	0.58	119	Basalt	greenish	aphanitic			0.00		0.58m chip sample across finegrained mafic dike.
LJJNR015	OUTCROP	543814	6841455	0.35	119	Basalt	greenish	aphanitic			0.00		0.35m chip sample across small limestone wedge between fine and coarser grained mafic dikes
LJJNR016	OUTCROP	543814	6841455	1.00	119	Basalt	greenish	aphanitic			0.00		1m chip sample acrosscoarse grainedvsection of mafic dike
LJJNR017	OUTCROP	543814	6841455	0.50	119	Basalt	greenish	aphanitic			0.00		0.5 meter chip sample across limestone on easterly side of mafic dike
LJJNR018	FLOAT	549444	6835701			Sandstone	light grey	veined			0.00		Sandstone with pyrit and moly mineralization in quqrtz veining.
LJJNR019	OUTCROP	546813	6842135			Limestone	bluish				0.00		Sample contains quartz/ calcite vein marterial.
MMJNR035	GRAB	546067	6839424			Breccia	black	brecciated	pyrite	DISSEMINATED	0.50	Silica	Dark black graphitic, calcareous, silicified fault breccia. Host to heterolithic clasts of quartz pebble conglomerate, clay altered phyllite, aplite. Sharp angular framework clasts which range from 2 mm - 45 mm in size. Weathered surface is strongly oxidized
MMJNR036	GRAB	546699	6839469	0.00		Vein	grey	veined	bismuthinite	TRACE	0.05	Silica	Coarse grained prograde skarn host to sheeted quartz veins, up to 7/meter over a 3.0 meter by 2.0 meter outcrop. The vein that was samples was 1-3 cm wide, smokey grey-pearly white in color. Trace bismuthinite occurs as very fine grained clots within the quartz vein. 2 sights VG observed with the Bismuthinite
MMJNR037	GRAB	546816	6839174	0.00		Quartz Feldspar Porphyry	greyish	porphyritic	pyrite	DISSEMINATED	1.00	Silica	Quartz Feldspar Porphyry, strongly oxidized on weathered surfaces. 1-4 cm vugged quartz veins with in boulder - float - angular - 0.5 meters x 0.3 meters x 0.3 meters. Dark-light grey in color with 1-3 % Py as vfg- fg xls. Potassic and sericitic alteration
MMJNR038	GRAB	546979	6839249	0.00		Quartz Feldspar Porphyry	pinkish	veined	arsenopyrite	VEINED	0.10	Silica	Sub-crop - 0.3 x 0.3 meter window through the hummocky, mossy ground. Silicified intrusive with 1-3 mm sheeted veins, subvertical veins sets @ 168/88. Aspy veinlets occur at 5-10 cm density. O/C is bleached pink, the matrix is very fine grained, and crystalline.
MMJNR039	GRAB	546881	6839439	0.00		Vein	smokey grey	vein	bismuthinite	TRACE	0.05	Silica	Quartz Vein - 165/90, 10 cm wide, vuggy, oxidized, smokey grey in color. Hosted within quartz feldspar porphyry dyke. Fine grained bismuthinite occurrs as 0.5-2.0 mm blemishes with in the quartz, steel grey in color.
MMJNR040	GRAB	546919	6839378	0.00		Vein	greyish	veined	scheelite	VEINED	0.10	Silica	0.2 x 0.1 x 0.1 cm angular float in 1.0 meter wide braided stream east of the POW Zone. Thin grey-black laminations < 2 mm wide occur as selvages to 2-5 mm wide quartz veins. Scheelite and bismuthinite occurs as fg clots along vein selvages.

MMJNR041	GRAB	546712	6839235	0.00		Vein	greyish		bismuthinite	DISSEMINATED	0.05	Silica	4-5 cm wide quartz vein with 0.05% bismuthinite found in dry seasonal creek bed. High-grade sample, grab from vein to confirm bismuthinite mineralizaiton. The vein is laterally continuous along strike for approximately 50 cm. Appears to be a part of a sheeted vein system
MMJNR042	GRAB	546692	6839220	0.00		Breccia	grey	brecciated	pyrite	DISSEMINATED	2.00	Silica	Float sample from seasonal creek bed. Angular rubble measuring 0.2 x 0.2 x 0.2 meters. Silificied breccia, overprinting original rock type. Vfg - cg pyrite occurs as disseminations within the siliceous matrix.
RZJNR001	CHIP	546341	6839556	0.70	80		white	massive	pyrite	DISSEMINATED	1.00		
RZJNR002	FLOAT	545654	6838135			Grit	light grey	vuggy	pyrite	DISSEMINATED	10.00	Silica	
RZJNR003	FLOAT	545912	6838874			ox min	black	brecciated	iron oxide	BRECCIATED			
RZJNR004	FLOAT	545931	6839006			Quartz	white	massive					
RZJNR005	CHIP	546813	6839457	0.30	90	Quartz Porphyry	rusty	vuggy	pyrite	VUG FILL	5.00	Argillic	
RZJNR006	CHIP	546812	6839457	0.09	90	Quartz	bluish	massive	pyrite	VEINED	15.00		
RZJNR007	FLOAT	548587	6838950			Quartz	white	massive	sulphides		1.00	Silica	
RZJNR008	FLOAT	548691	6838917			Skarn	light grey	streaked	pyrrhotite	BLEBBY	7.00	Silica	
RZJNR013	GRAB	546705	6839567			Siltstone	beige	streaked	other	DISSEMINATED	1.00	Silica	
RZJNR014	CHIP	546705	6839563	2.00	170	Siltstone	dark grey		pyrrhotite	DISSEMINATED		Skarn	
RZJNR015	CHIP	546721	6839558	0.35	90	Siltstone	rusty	sheared	pyrite	BLEBBY	1.00		
RZJNR016	CHIP	546792	6839443	0.10	90	Quartz	white	massive	arsenopyrite	VEINED			
RZJNR017	FLOAT	548128	6835331			ox min		vuggy	wad	OTHER		Gossan	
RZJNR018	CHIP	547949	6834768	2.50	90	Conglomerate	grey	sheared	pyrite	DISSEMINATED	15.00	Mn-Staining	
RZJNR019	CHIP	547945	6834769	1.00	90	Conglomerate	grey	sheared	pyrite	MASSIVE	50.00	Clay	
RZJNR020	CHIP	547945	6834770	1.25	90	Conglomerate	greyish	altered	pyrite	FRACTURES	30.00	Mn-Staining	
RZJNR021	FLOAT	548327	6834859			Vein	white	crystalline	pyrite	VEINLETS	35.00		
RZJNR022	FLOAT	548766	6833735			Conglomerate	white	pebble	pyrite	FRACTURES	5.00	Argillic	
RZJNR023	FLOAT	548769	6833735			Conglomerate	light grey	pebble	pyrite	DISSEMINATED	2.00	Argillic	
RZJNR024	FLOAT	548811	6833752			Grit	light grey	gritty	pyrite	DISSEMINATED	1.00	Silica	