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Rio Tinto Exploration Canada Inc. Assessment Report
On the Cu-Ni-PGE Crystal Lake Project

Pardee, Devon, and Crooks Townships
NTS 52A/04
Thunder Bay Mining Division
Ontario, Canada

Brian Goldner
Sr. Project Geologist
May 13th 2016

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Introduction

In late 2011, Rio Tinto Exploration Canada Inc. (RTECI) entered into an option agreement with Great Lakes Nickel (GLN) to acquire the GLN property in Pardee Township. This property covers the Crystal Lake Gabbro which has been extensively explored in the past by various companies including Great Lakes Nickel.

Work included in this assessment report includes 3 diamond drill holes, associated assays, and down hole geophysics. The field work was completed between May 2015 and November of 2015.

The work was completed by RTECI staff and contractors listed below.

Name	Position	Residence
David Simpson	Exploration Manager	Salt Lake City, UT
Dean Rossell	Principle III Geologist	Duluth, MN
Brian Goldner	Sr. Project Geologist	Salt Lake City, UT
Steve Hovis	Principle II Geologist	Tamarack, MN
Tony Freeman	Principle I Geologist	Vancouver, BC
Rachelle Boulanger	Project Geologist	Saskatoon, SK
Robert Rush	Project Geologist	Duluth, MN
Dan Foley	Project Geologist	Duluth, MN
Holly Keyes	HSEC Coordinator	Vancouver, BC
Christophe Hyde	Principle I Geoscientist	Vancouver, BC
Pat Farah	Project Coordinator	Tamarack, MN
Rob Varin	Project Coordinator	Thunder Bay, ON
Bob Gordon	Project Coordinator	Toronto, ON
Steve Crowell	Contract Geologist	Nova Scotia
Jesse Koroscil	Contract Geologist	Thunder Bay, ON
Monica Karman	Field Tech	Thunder Bay, ON

Location and Access

The Crystal Lake Gabbro is located approximately 40km south of Thunder Bay Ontario on Hwy 61, only a few kilometres north of the Canada USA border (Figure 1). Access to the property was achieved using the Great Lakes Nickel road off of highway 61 then by using historic bush trails that were pushed in by the exploration companies who worked on the property in the past. These trails needed to be touched up to remove overgrowth but no major work was required.

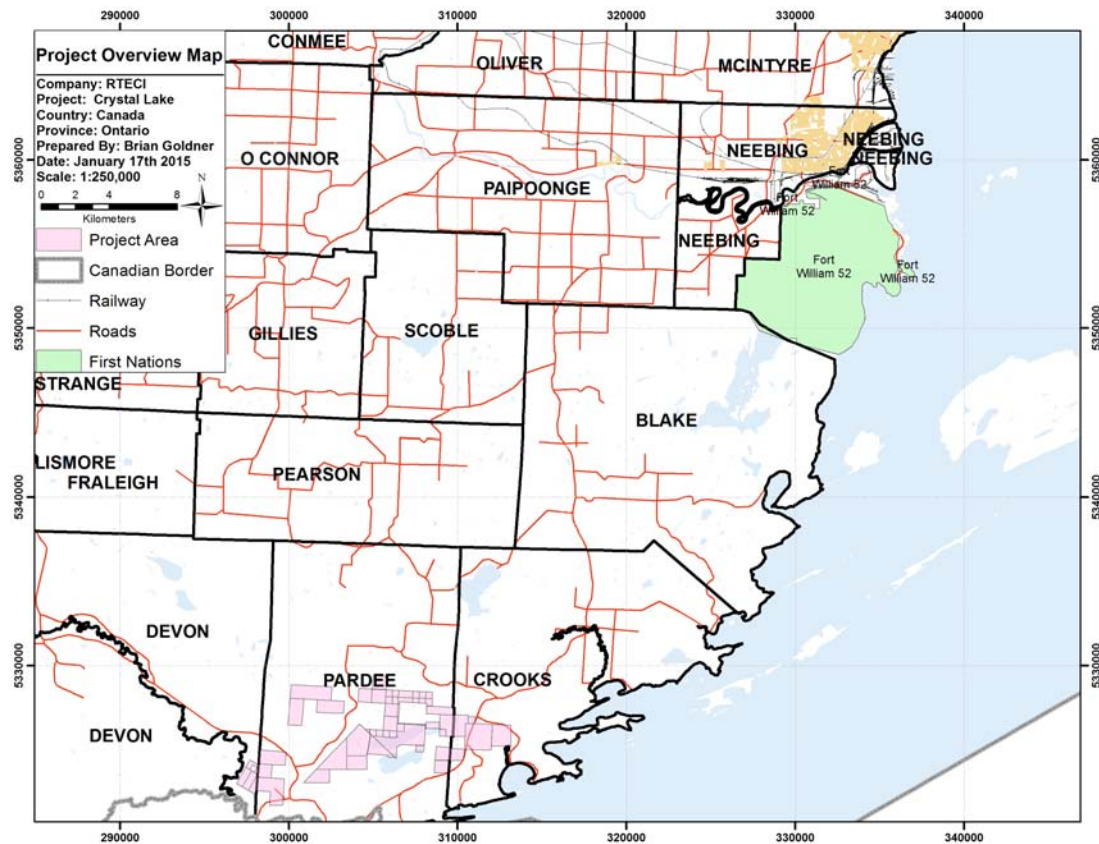


Figure 1: Project area map

Trucks were used to transport crews and supplies from Thunder Bay to the staging area at the base of Crystal Lake but due to the grade of the trails leading up to the top of the ridge UTV's were required to get up to the drill sites.

Property Status

The Crystal Lake property consists of 27 claims made of 167 claim units totalling 2672 Ha and 27 leases over 952.66Ha. These claims and leases are described in the tables below and shown in Figure 2.

Claim Number	Owner	Township/Area	Recorded	Claim Units	Ha
1238168	RTECI (100%)	Pardee	March 28, 2007	8	128
1238182	RTECI (100%)	Pardee	March 28, 2007	6	96
1238183	RTECI (100%)	Pardee	March 28, 2007	16	256
1238184	RTECI (100%)	Devon	April 27, 2007	3	48
1238185	RTECI (100%)	Devon	April 27, 2007	3	48
1238186	RTECI (100%)	Devon	April 27, 2007	3	48
3016282	RTECI (100%)	Pardee	March 28, 2007	6	96
4210932	RTECI (100%)	Pardee	March 21, 2007	8	128
4210933	RTECI (100%)	Pardee	March 21, 2007	16	256
4210934	RTECI (100%)	Pardee	March 21, 2007	4	64
4247184	RTECI (100%)	Pardee	September 18, 2013	4	64
4247185	RTECI (100%)	Pardee	September 18, 2013	1	16
4247186	RTECI (100%)	Pardee	September 18, 2013	8	128
4247187	RTECI (100%)	Pardee	September 18, 2013	12	192
4247188	RTECI (100%)	Pardee	September 18, 2013	8	128
4247189	RTECI (100%)	Pardee	September 18, 2013	1	16
4247190	RTECI (100%)	Devon	September 18, 2013	2	32
4277401	RTECI (100%)	Pardee	March 6, 2014	5	80
4277402	RTECI (100%)	Crooks	March 6, 2014	12	192
4277403	RTECI (100%)	Pardee	March 6, 2014	4	64
4277404	RTECI (100%)	Crooks	March 6, 2014	1	16
4277405	RTECI (100%)	Pardee	March 6, 2014	2	32
4277427	RTECI (100%)	Crooks	March 6, 2014	16	256
4277428	RTECI (100%)	Crooks	March 6, 2014	9	144
4277430	RTECI (100%)	Crooks	March 6, 2014	4	64
4277450	RTECI (100%)	Pardee	June 24, 2014	4	64
4247159	RTECI (100%)	Pardee	July 14, 2014	1	16

Table 1: List of Crystal Lake claims

Lease	Project	Area
107289	Crystal Lake	266.8400 Ha
107331	Crystal Lake	92.7600 Ha
108293	Crystal Lake	64.7500 Ha
108294	Crystal Lake	64.7500 Ha
108295	Crystal Lake	64.7500 Ha
108296	Crystal Lake	32.3800 Ha
108297	Crystal Lake	16.1900 Ha
108298	Crystal Lake	16.1900 Ha
108299	Crystal Lake	38.8500 Ha
108300	Crystal Lake	16.1900 Ha
108301	Crystal Lake	64.7500 Ha
108866	Crystal Lake	16.0400 Ha
108867	Crystal Lake	15.0100 Ha
108868	Crystal Lake	17.2670 Ha
108869	Crystal Lake	3.8940 Ha
108870	Crystal Lake	5.0320 Ha
108871	Crystal Lake	5.0200 Ha
108872	Crystal Lake	16.1900 Ha
108873	Crystal Lake	22.6600 Ha
108874	Crystal Lake	16.1100 Ha
108875	Crystal Lake	16.1100 Ha
109044	Crystal Lake	15.5400 Ha
109045	Crystal Lake	15.6400 Ha
109046	Crystal Lake	9.9900 Ha
109047	Crystal Lake	10.0500 Ha
109048	Crystal Lake	14.0300 Ha
109049	Crystal Lake	15.6800 Ha

Table 2: List of Crystal Lake leases

Previous Work

1965-1966: Grasset Lakes Mines Ltd drills holes G-65-1 (99 m) and G-66-1 (441 m) on current claim 4210865 at the north end of the Arrow property.

1966-1968: Bordun Mining Corporation drilled 11 diamond drill holes totaling 2,192 m, in the Start Location, directly west of Crystal Lake and Lenore Lake.

Between 1967 to 1969, Phelps Dodge Corporation of Canada Limited carried out exploration programs along the Pine River - Mount Mollie Gabbro feeder dyke that cuts through the eastern portion of the property. The work consisted of geophysical and geological surveys followed-up by 3,028m of diamond drilling in 7 holes.

1968-1969: I.C. Christopher drilled 3 diamond drill holes totaling 773 m, in the Stuart Location, immediately west of Bordun's claims.

In 1987, a 380 line km Aerodat helicopter magnetics and EM airborne survey was flown under contract for Platinum Exploration Canada Inc.

1998: Falconbridge acquires an airborne Dighem electro-magnetic and magnetic survey from Geotrex-Dighem over a large area, some of which includes minor parts of the Arrow property.

1999: Falconbridge drills PR99-03 at a depth of 298 m, 640 m south of the Arrow property, on their grid PR-03 in the Stuart Location.

1999-2002: Dumont Nickel Inc. and North Atlantic Nickel Corp. drill 6 diamond drill holes totaling 2,482 m, at the northwestern end of the Arrow property.

2002: McVicar Minerals Ltd and BHP Billiton acquire from Fugro Airborne Surveys a MEGATEM electro-magnetic survey in the Pardee and Crook townships, over an area which includes a minor part of the current Arrow property in the Stuart Location.

2014: Rio Tinto Exploration Canada Inc. drilled 5 exploration holes and followed up with DHEM surveys and a complete characterisation assay package.

Regional Geology

The Mesoproterozoic Midcontinent Rift (MCR) is a large igneous province that formed from plume influenced intercontinental rifting at ~1.1Ga (Hutchinson et al., 1990). The MCR extends along a 2000km arcuate path from the Lake Superior region to as far south as Kansas and as far southeast as Michigan as shown in figure 3 (Van Schmus and Hinze, 1985). The rift, though only exposed in the Lake Superior region, is known to be as thick as 20km with an estimated lava volume of $2 \times 10^6 \text{ km}^3$ and was thought to be emplaced in 23 million years between 1109Ma and 1186Ma (Davis and Paces, 1990, Cannon et al., 1989, Cannon 1992).

In addition to the extrusive rocks emplaced during the rift a large amount of intrusive rocks were emplaced including the Duluth Complex, Mellen Complex, Coldwell Complex, and the Beaver Bay Complex in addition to various smaller intrusions such as the Eagle intrusion, Tamarack intrusion, Crystal Lake intrusion, and Sonju Lake intrusion (Goldner 2011). Many of these intrusions are known to produce high grade mineralization often with impressive PGE values.

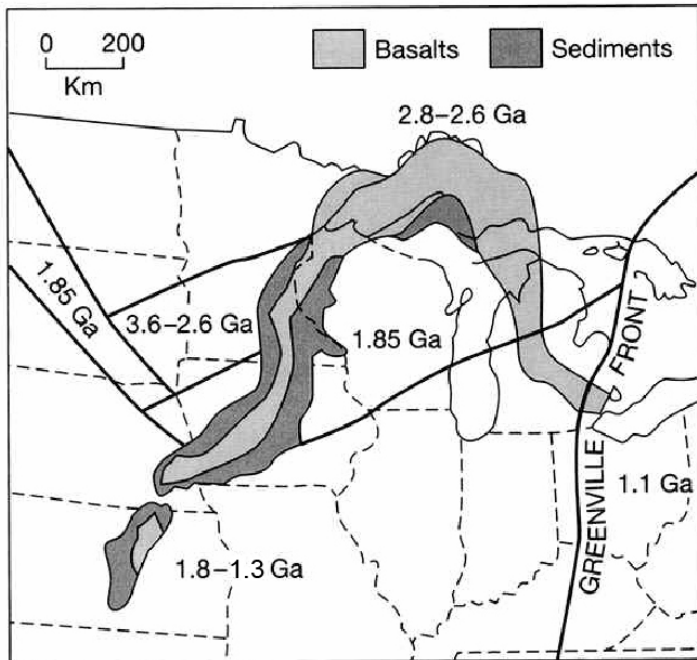


Figure 3: Shows the extent of the MCR from Meyers, 2008

Diamond Drilling

A total 1974m over three diamond drill holes was drilled by Downing Drilling between June 2nd and July 24th 2015. One hole was testing the off hole anomaly encountered in 14CL0003 on the south arm of the Crystal Lake intrusion. The second drill hole of the program (15CL0007) was testing a conceptual target in the valley between the north and south limbs of the Crystal Lake intrusion. The final drill hole of the campaign (15CL0008) was testing a discrete coincident magnetic and EM anomaly. Holes 15CL0006 was drilled in HQ core size while 15CL0007 and 15CL0008 were drilled in NQ size. All drill core was transported to the core shed in Thunder Bay each morning for logging, processing, and storage.

Hole ID	Easting	Northing	Elevation (m)	Azimuth	Dip	Depth (m)
15CL0006	306237	5326530	493	315	-80	738
15CL0007	305896	5326852	336	0	-75	816
15CL0008	300302	5329607	324	165	-80	420

Table 3: Summary of 2015 Drill Holes

Due to the remote nature of this work RTECI required a medic to be on site with the drill crew 24 hours a day. In addition, RTECI operates drills with three man crews instead of the traditional two person crews to ensure our safety standards are met.

Core Data Collection

HQ or NQ drill core was placed in 0.75m long wooden boxes and transported from the drill site to the staging area by UTV or tracked vehicle. From there it was loaded into a pickup truck and driven to the core shed for processing and storage. Figure 4 illustrates the path that the drill core followed from the time it reached the surface at the drill through data collection and sampling.

Extensive geotechnical, geological, and geophysical data is collected from each drill core. This includes

- Geotechnical- Total Core Recovery, Solid Core Recovery, and Longest Piece
- Geophysical- Magnetic Susceptibility
- Geological- Lithology, Structures, Mineralization
- Physical- Density

All data was entered directly into an acQuire database at the time of collection.

Where?	Who?	What?
Drill Site	Drilling Crew	Retrieve core tube Box marking, front (Hole ID, box #) Transfer core from tube to core box Mark driller's breaks Insert depth blocks Stack core boxes in UTV and secure with lids
	Project Coordinator/ Geologists	Drive core to pickup truck at staging area Drive pickup truck to core shed Transfer core to logging tables
Core Shed	Geologists	Box marking (Hole ID, From, To) Core restoration and cleaning Orient core using ACT tool marks Run recovery logging geology "quick log"
	Geologists	Detailed geology logging Density measurements Mag Sus logging Sample interval marking Core Photography
Core Shed	Core Technicians	Transfer core to sawing area Lengthwise cutting of core and subsequent sampling of core.
Core Shed	Geologists	Samples packaged for shipment Samples shipped to lab

Figure 4: Drill core flowchart

Sampling Method and Approach

When sampling drill core for analysis lithology breaks were honoured when possible and sample sizes were capped at 6m for barren sediment, 3m for unmineralized intrusive, and 1.5m intervals for mineralized core. Samples were cut in half longitudinally with the use of a core saw and a representative half of the drill core was dried and submitted to the laboratory for geochemical analysis.

Quality Control

Quality control samples consisting of blanks, duplicates, and standards were inserted into the sampling sequence approximately 1 in every 10 samples. Matrix matched mafic rocks were used as blank material and professionally prepared sample material of high, medium, and low Cu, Ni, S, and PGE grades were used as Standards. Duplicates samples were collected by quartering the core sample being sent to the laboratory. Finally, all individual samples were weighed, with each weight recorded in the database. The weights provide a simple way to verify if a given sample has been inadvertently switched with another during the assaying process.

Each batch of assay data received from the laboratory under goes Quality Control/Quality Assurance checks. Results from the sample standards are plotted to determine if the values reported by the lab are within acceptable tolerance of the know values. Blank samples are checked to monitor for carry-over contamination. The lab is notified of any values that are outside of tolerance and may be asked to re-run specific samples. Once an assay batch has passed QA/QC the data is loaded into the Acquire database.

Sample Preparation, Analyses, and Security

Each sample was placed in a sealed plastic sample bag with a sample number and securely stapled shut. For shipping to the laboratory, individual samples were placed in collapsible shipping totes each of which was assigned a number. The tote number, total number of totes, and list of samples included in the shipment were recorded on a sample tracking sheet, a copy of which was sent to the assay laboratory. Totes were then loaded into the back of a pickup truck and transported to the ALS laboratory in Thunder Bay Ontario. Upon receipt, the lab inventoried the sample shipment against the provided sample list to be sure that all samples were accounted for.

Once the samples arrived at the laboratory they were scanned, dried and weighed before going through the prep facility. In the prep facility the samples were crushed to 70% passing 2mm fraction size and then a representative 1kg split was taken from the crushed allotment. This subsample was then pulverized to 85% passing 75 microns in size. After the prep was completed the sample was submitted for assay. All intrusive samples, whether mineralized or barren, were submitted for ALS's Complete Characterization package (CCP-PKG03) with the PGE add PGM-MS24 on as shown

in the chart below (figure 5). Sediment samples were submitted for assay method ME-MS61 with the PGE-ICP24 add on to save on assaying cost.

When over limit values were triggered the samples were automatically run for high grade PGE's using PGM-ICP27 and high grade Cu-Ni using OG-62.

ANALYTES AND RANGES (ppm)								CODE	PRICE PER SAMPLE (\$)
SiO ₂	0.01-100%	MgO	0.01-100%	TiO ₂	0.01-100%	BaO	0.01-100%	ME-ICP06	Sold only as a complete package.* CCP-PKG01 73.10 CCP-PKG03 Includes ME-XRF26 instead of ME-ICP06. 88.10
Al ₂ O ₃	0.01-100%	Na ₂ O	0.01-100%	MnO	0.01-100%	LOI	0.01-100%		
Fe ₂ O ₃	0.01-100%	K ₂ O	0.01-100%	P ₂ O ₅	0.01-100%				
CaO	0.01-100%	Cr ₂ O ₃	0.01-100%	SrO	0.01-100%				
Ba	0.5-10,000	Gd	0.05-1,000	Sm	0.03-1,000	W	1-10,000	ME-MS81	
Ce	0.5-10,000	Hf	0.2-10,000	Sn	1-10,000	Y	0.5-10,000		
Cr	10-10,000	Ho	0.01-1,000	Sr	0.1-10,000	Yb	0.03-1,000		
Cs	0.01-10,000	La	0.5-10,000	Ta	0.1-2,500	Zr	2-10,000		
Dy	0.05-1,000	Lu	0.01-1,000	Tb	0.01-1,000				
Er	0.03-1,000	Nb	0.2-2,500	Th	0.05-1,000				
Eu	0.03-1,000	Nd	0.1-10,000	Tm	0.01-1,000				
Ga	0.1-1,000	Pr	0.03-1,000	U	0.05-1,000				
Ge	5-1,000	Rb	0.2-10,000	V	5-10,000			ME-4ACD81	
Ag	0.5-100	Cu	1-10,000	Ni	1-10,000	Zn	2-10,000		
Cd	0.5-1,000	Li	10-10,000	Pb	2-10,000				
Co	1-10,000	Mo	1-10,000	Sc	1-10,000			ME-MS42	
As	0.1-250	In	0.005-250	Se	0.2-250				
Bi	0.01-250	Re	0.001-250	Te	0.01-250				
Hg	0.005-25	Sb	0.05-250	Tl	0.02-250			ME-IR08	
C	0.01-50%	S	0.01-50%						

ANALYTE	RANGE (ppm)	DESCRIPTION	CODE	PRICE PER SAMPLE (\$)					
Trace Level									
Pt Pd Au	0.0001-1 0.0001-1 0.001-1	Super trace Pt, Pd and Au by fire assay and ICP-MS finish. 30g nominal sample weight	PGM-MS23L	23.10					
Pt Pd Au	0.0005-1 0.001-1 0.001-1	Pt, Pd and Au by fire assay and ICP-MS finish. 30g nominal sample weight 50g nominal sample weight	PGM-MS23 PGM-MS24	20.10 23.15					
Rh	0.001-1	Rh by fire assay, gold collection and ICP-MS 30g nominal sample weight	Rh-MS25	22.10					
Intermediate Level									
Pt Pd Au	0.005-10 0.001-10 0.001-10	Pt, Pd and Au by fire assay and ICP-AES finish. 30g nominal sample weight 50g nominal sample weight	PGM-ICP23 PGM-ICP24	18.90 22.05					
Pt Pd Ir Os Rh Ru Au	0.02-10 0.02-10 0.001-10 0.01-10 0.005-10 0.05-10 0.001-10	Pt, Pd, Ir, Os, Rh, Ru and Au by fire assay with nickel sulfide collection and neutron activation analysis. 30g nominal sample weight Note: Au is not quantitative by this method.	PGM-NAA26	By Quotation					
Ore Grade									
Pt Pd Au	0.03-100 0.03-100 0.03-100	Pt, Pd and Au by fire assay and ICP-AES finish. 30g nominal sample weight	PGM-ICP27	22.90					
ANALYTES & RANGES (ppm)									
Ag	0.01-100	Cu	0.2-10,000	Na	0.01%-10%	Sr	0.2-10,000	ME-MS61	27.90
Al	0.01%-50%	Fe	0.01%-50%	Nb	0.1-500	Ta	0.05-100		
As	0.2-10,000	Ga	0.05-10,000	Ni	0.2-10,000	Te	0.05-500		
Ba	10-10,000	Ge	0.05-500	P	10-10,000	Th	0.2-10,000		
Be	0.05-1,000	Hf	0.1-500	Pb	0.5-10,000	Ti	0.005%-10%		
Bi	0.01-10,000	In	0.005-500	Rb	0.1-10,000	Tl	0.02-10,000		
Ca	0.01%-50%	K	0.01%-10%	Re	0.002-50	U	0.1-10,000	ME-MS61m	37.75
Cd	0.02-1,000	La	0.5-10,000	S	0.01%-10%	V	1-10,000		
Ce	0.01-500	Li	0.2-10,000	Sb	0.05-10,000	W	0.1-10,000		
Co	0.1-10,000	Mg	0.01%-50%	Sc	0.1-10,000	Y	0.1-500		
Cr	1-10,000	Mn	5-100,000	Se	1-1,000	Zn	2-10,000		
Cs	0.05-500	Mo	0.05-10,000	Sn	0.2-500	Zr	0.5-500		
Note: To include Hg by a separate procedure in the suite of elements above, please request ME-MS61m instead of ME-MS61.									

Figure 5: Table of analytical methods used and limitations from ALS 2015 fee schedule

After QAQC had passed on all batches the master pulps were shipped to RTECI storage and the coarse rejects were kept in paid storage until they are no longer being used, at which time, they will be destroyed.

Drill Holes

15CL0006

Drill hole 15CL0006 was drilled at an orientation of 315/-80 on lease 108294 between June 7th and June 20th of 2015 (Appendix A). The drill hole was testing an off hole anomaly identified in the DHEM survey from hole 14CL0003. A total of 277 samples were collected from this 738m HQ hole with all intrusive rocks being submitted for complete characterization lithogeochemistry with the PGE add on.

Assays, sample intervals, cross sections, and drill logs are found in the appendix.

15CL0006 was targeting the off hole response from the DHEM survey on 14CL0003 but failed to identify mineralization at the target depth. The rock at the modeled depth of the off hole conductor was a carbonaceous slate which is interpreted to be the cause of the off hole anomaly.

15CL0007

Drill hole 15CL0007 was drilled at an orientation of 000/-75 on lease 108294 between June 20th and July 12th 2015 (Appendix A). This drill hole was testing a conceptual target between the north and south arms of Crystal Lake but failed to identify any mineralized intrusive. A total of 176 samples were collected from this 816m NQ hole with all intrusive rocks being submitted for complete characterization lithogeochemistry while samples of sediments were submitted for the MS61 package. Both sets of samples were also analysed for PGE's.

Assays, sample intervals, cross sections, and drill logs are found in the appendix.

15CL0008

Drill hole 15CL0008 was drilled at an orientation of 165/-85 on fee property between July 12th and July 24th of 2015 (Appendix A). This drill hole was testing a coincident magnetic and electromagnetic anomaly. A total of 129 samples were collected from this 420m NQ drill hole with all intrusive rocks being submitted for complete characterization lithogeochemistry while samples of sediments were submitted for the MS61 package. Both sets of samples were also analysed for PGE's.

Assays, sample intervals, cross sections, and drill logs are found in the appendix.

Drill Site Reclamation

The reclamation of the 3 drill sites was completed upon demobilisation of the drill rig and included the backfilling of sumps, drill pad levelling and smoothing (back blading). This work was supervised by RTECI and photo documented. RTECI also reseeded all sites with MTO #3 at the recommendation of Gord Persson with Bio Consulting out of Kakabeka Falls.

Geophysics

Description of Survey: Downhole Crone Pulse-EM

A Crone downhole time-domain electromagnetic (DHEM) survey was completed on the Crystal Lake property during June and July 2015. The equipment used consists of the Pulse-EM CDR2 Receiver, the Pulse-EM transmitter and the Pulse-EM Induction Coil Probes. Two probes are employed, one with a Z-component coil measuring the field in the direction of the borehole and a second with an X-component and a Y-component oriented perpendicular to the borehole. The equipment is described in greater detail in Appendix F. The measurement units are in nano-Teslas per second (nT/s). Typically, noise levels at late time are considered to be around 1 nT/s although may vary depending upon hole and site conditions.

In addition to DHEM surveys, Crone completed RAD (downhole 3 component fluxgate magnetometer) surveys using their RAD tool which measures the magnetic field in nano-Teslas (nT) in three orthogonal directions. The orientation of the sensors is determined employing 3 on-board accelerometers and hole orientation information. Noise levels vary considerably but are estimated to range from 1-10 nT.

Survey Method

Three holes were surveyed from two different transmitter loops (see Appendix F). DHEM surveys were completed on two of the three holes while RAD surveys were completed on all three holes (see Table 4). The decision to measure the DHEM data employing a 50 ms time base was based upon our survey experience on this project in 2014. Measuring employing 50 ms minimizes the background conductivity response but seems to highlight conductors of interest. Station spacing was selected at 20m stations with 10m detailed stations within zones of interest.

HOLE_ID	Surveyed_Depth (m)	Loops_Used	Time_Base (ms)	Comments	# of surveys (# loops x # probe x # time base) – distance (m)
15CL0006	720	2015_CL_1	50		3 – 2160
15CL0007	660	No DHEM surveys. Only RAD Survey		No DHEM data. Only RAD	1 – 660

				data.	
15CL0008	410	2015_Isotalo_1	50		3 – 1230
Total Meters Surveyed:					4.05 km

Table 4: Summary of holes surveyed by DHEM and RAD on the Crystal Lake Project

The total length of surveyed boreholes is 1.79 km. However, since the holes were surveyed several times by varying probe (XY, Z or RAD), the total cumulative survey distance along the boreholes was 4.05 km.

All geophysical data contained in this report was collected by Crone Geophysics during June and July 2015. Data are shown in detail in Appendix F.

Interpretation of the Crone DHEM survey

The objective of the Crone DHEM surveys is to identify anomalous zones associated with mineralization which may indicate further accumulation of massive or semi-massive sulphides. At the Crystal Lake project, the responses are attributed to conductive sediments (possibly the Rove Formation) and conductive sulphide-bearing mineralized horizons. The Crystal Lake intrusion is generally speaking an electrically resistive body intruding within the conductive Rove Formation sediments. As such, a large volume of conductive sediments surround the intrusion and is interpreted to produce the large background EM response observed in all the surveys. Measuring with a 50 ms time base is an attempt to reduce this background response.

Hole_ID	Depth of Anomaly	Interpretation
15CL0006	<ul style="list-style-type: none"> • 370-380m • 640-720m 	<ul style="list-style-type: none"> • 370-380m anomaly associated with 7cm massive sulphide intercept located at base of Gabbro unit. DHEM response suggests an edge response (intersection of the conductor at early time with off-hole conductor observed at late time). • 640-720m anomaly associated with conductive sediments (possibly Rove Formation). Peak of the EM response migrates at early time from 640m to 720m (and probably below). Peak migration at Crystal Lake is indicative of a sedimentary style response.
15CL0007		<ul style="list-style-type: none"> • No DHEM survey
15CL0008	<ul style="list-style-type: none"> • 240-250m • 380-410m 	<ul style="list-style-type: none"> • 240-250m: Anomaly located at base of sedimentary sequence and slightly above Olivine Gabbro unit. The conductor is dominantly located off-hole. It is unclear if it is cause by a thin conductive sedimentary unit or a mineralized unit near the top of the intrusive. • 280-410m: The off-hole conductor response migrates from 380m at early time to 410m (and probably beyond) at late time. Although the response is within a gabbro unit, the strong migration of the response suggests it is due to a sedimentary sequence.

Table 5: Summary of DHEM anomalies and associated interpretation of the Crone RAD survey

Interpretation of the Crone DHEM survey

The objective of the Crone RAD surveys is to identify anomalous magnetic zones that may be associated with mafic or ultramafic intrusions. In general, at Crystal Lake, the gabbroic intrusions are magnetic while the sedimentary units, including the iron formation at the bottom of 15CL0007 are non-magnetic. In the RAD surveys, local variations are observed that correspond to the changes between magnetic intrusions and non-magnetic sediments. Of greater interest perhaps, is the growing negative magnetization observed along 15CL0006 with depth. It is interpreted that a large, negatively magnetized body lies beyond the reach of this hole and may be caused by the large negative magnetic anomalies observed in the airborne magnetic data above the south limb of the Crystal Lake gabbro.

Recommendation for further exploration work

The only clear DHEM anomaly associated with mineralization is located in hole 15CL0006 peaking at approximately 375m. It is recommended that a follow-up hole be designed to intercept the off-hole portion of the conductor. In addition, lengthening hole 15CL0006 to the base of the Proterozoic sediments is recommended in order to determine the cause of the growing negative magnetic anomaly, possible caused by a deeper intrusion.

Geophysical Data

All geophysical – downhole electromagnetic data – is shown in Appendix F.

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Appendix

Appendix A – Drill Hole Location Maps

Appendix B – Drill Hole Cross Sections

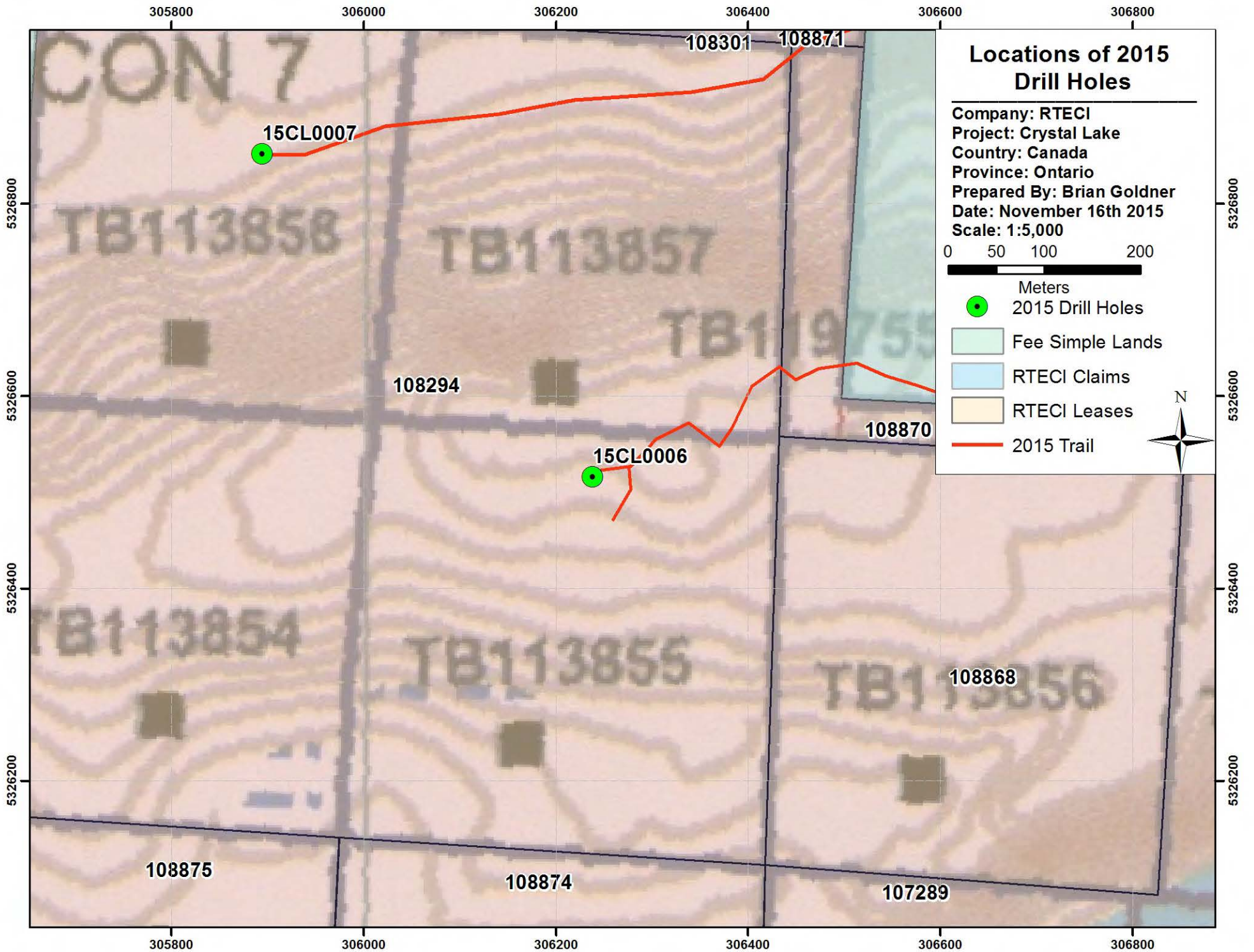
Appendix C – Geology logs

Appendix D – Assays and Intervals

Appendix E – Assay certificates

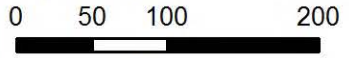
Appendix F – Geophysical Report

Appendix A – Drill Hole Location Map



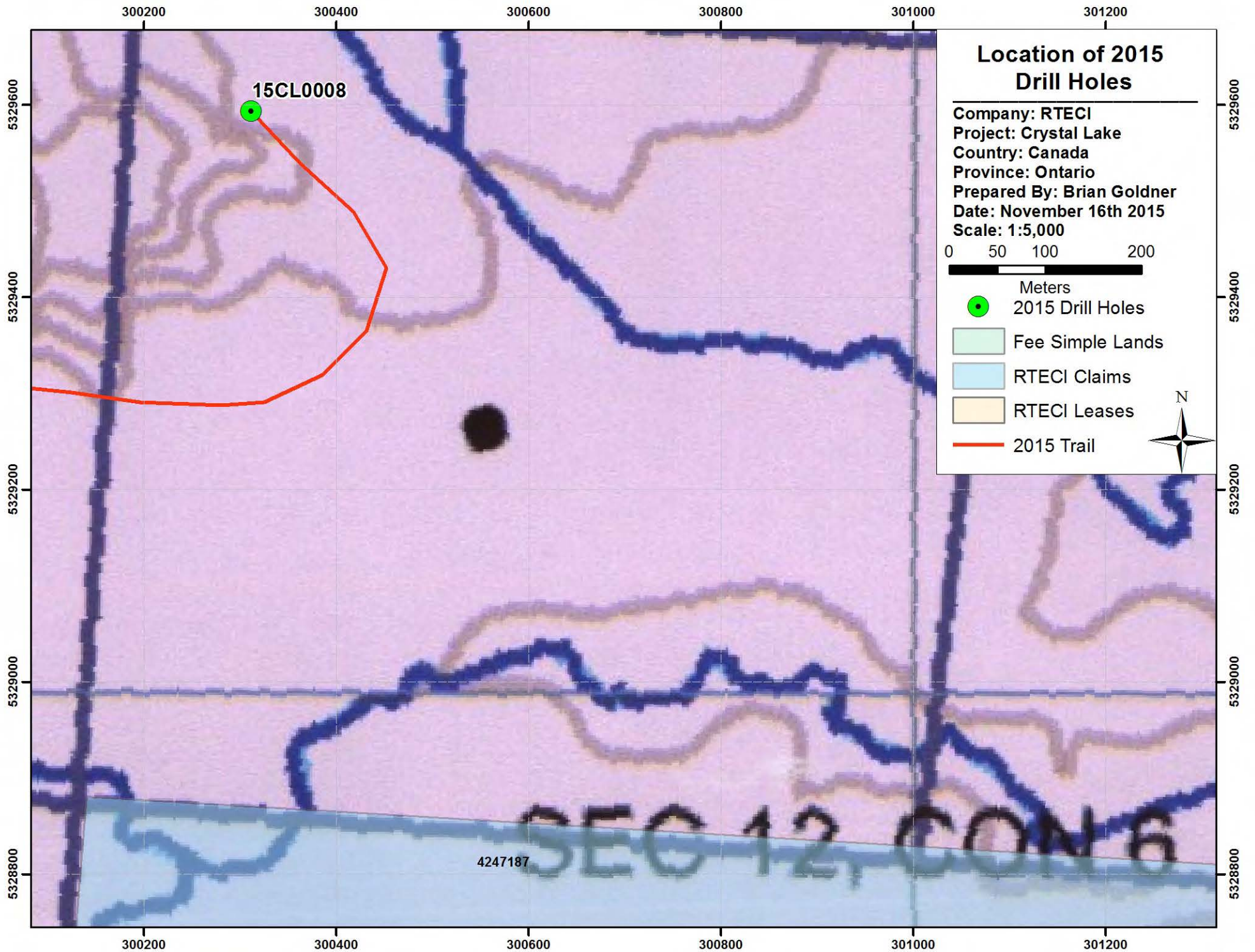
Locations of 2015 Drill Holes

Company: RTECI
Project: Crystal Lake
Country: Canada
Province: Ontario
Prepared By: Brian Goldner
Date: November 16th 2015
Scale: 1:5,000



- Meters
- 2015 Drill Holes
- Fee Simple Lands
- RTECI Claims
- RTECI Leases
- 2015 Trail



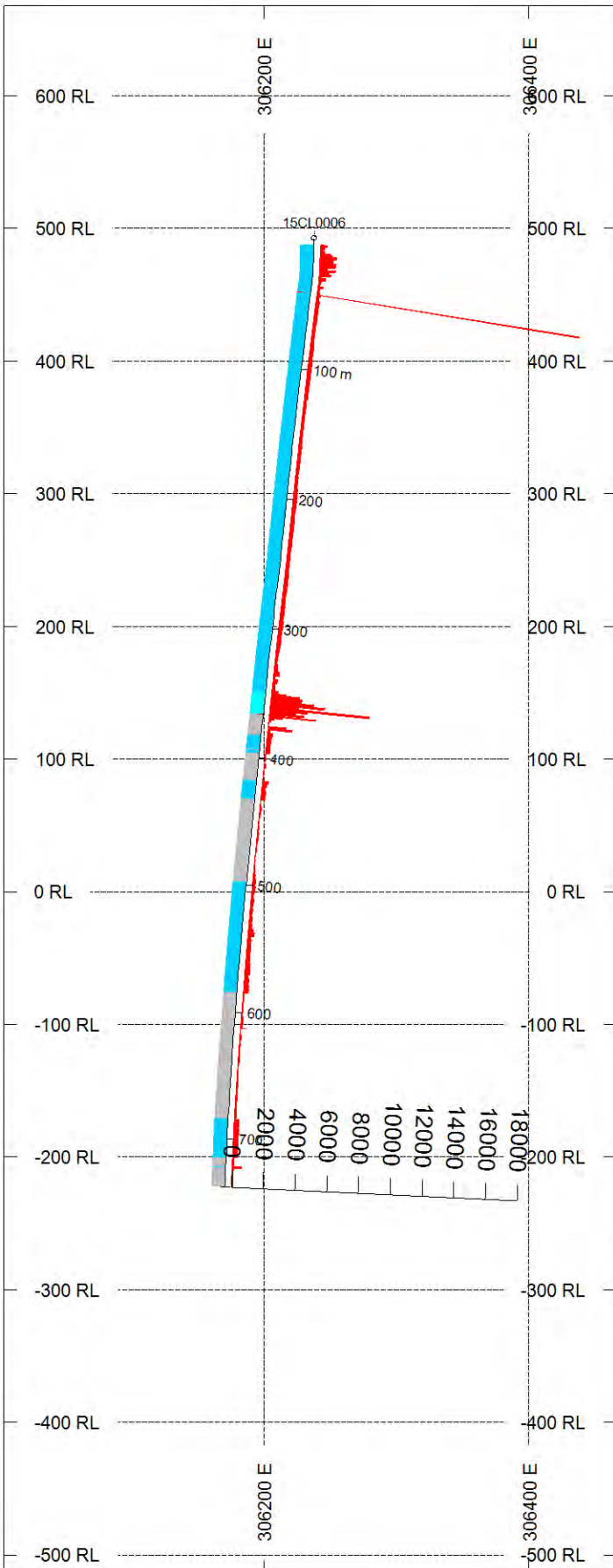


Appendix B – Drill Hole Cross Sections

HOLES PLOTTED

TOTAL 1

15CL0006



BAR GRAPHS	L/R	COL
Cu_CRYRES_ppm	R	█

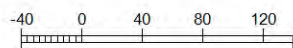
ROCK CODES	PAT	LABEL
Lith1	█	Gabbro
	█	Overburden
	█	Hornfels
	█	Massive Sulphide
	█	Sediment
	█	Sedimentary
	█	Troctolite

SECTION SPECS:

REF. PT. E, N	306235 m	5326570 m
EXTENTS	462.5 m	1182 m
SECTION TOP, BOT	668.2 m	-513.8 m
TOLERANCE +/-	483 m	

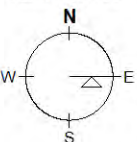
SCALE 1 : 5000

(m)



*unknown

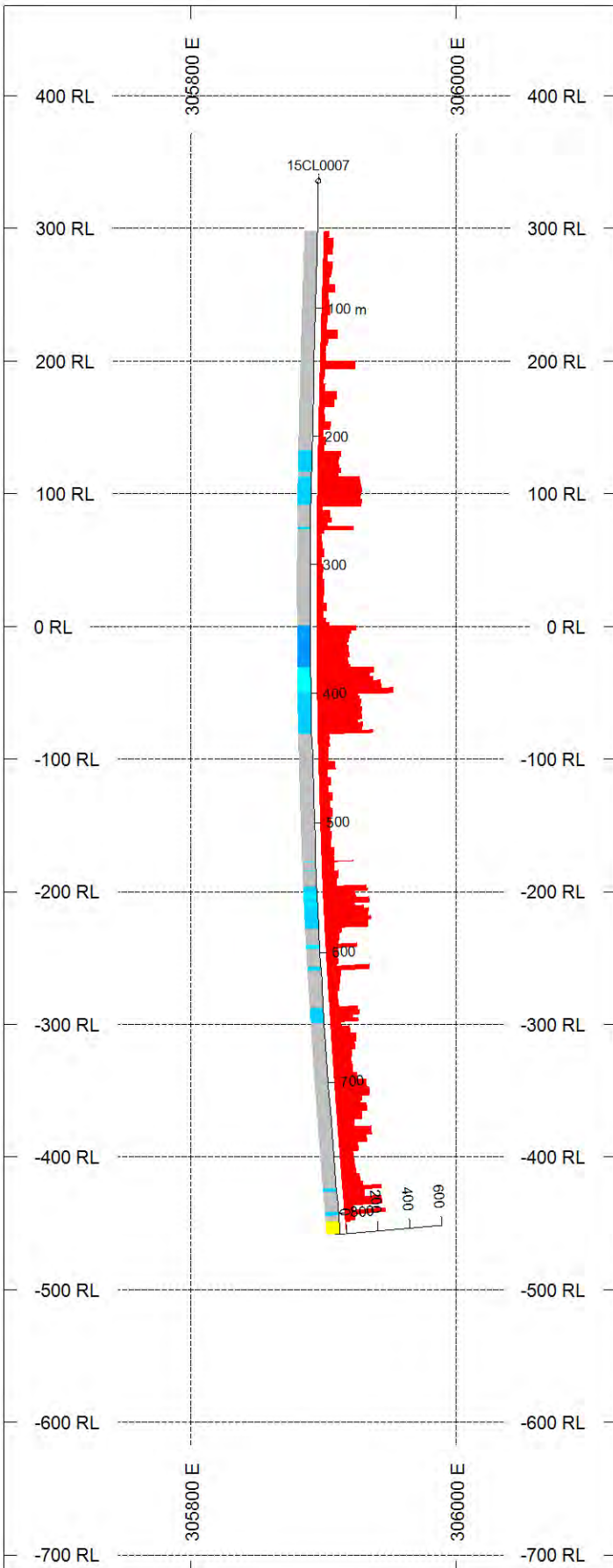
AZIMUTH = 90°



HOLES PLOTTED

TOTAL 1

15CL0007



BAR GRAPHS	L/R	COL
Cu_CRYRES_ppm	R	[Red]

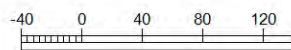
ROCK CODES	PAT	LABEL
Lith1	[Light Blue]	Gabbro
	[Cyan]	Diabase
	[Yellow]	IronFormation
	[Grey]	Sediment
	[Dark Grey]	Shale
	[Blue]	Sill
	[Light Cyan]	Till
	[Light Blue]	Troctolite

SECTION SPECS:

REF. PT. E, N	305890 m	5326860 m
EXTENTS	462.5 m	1182 m
SECTION TOP, BOT	468.2 m	-713.8 m
TOLERANCE +/-	362 m	

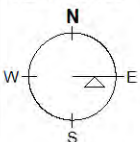
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(m)



*unknown

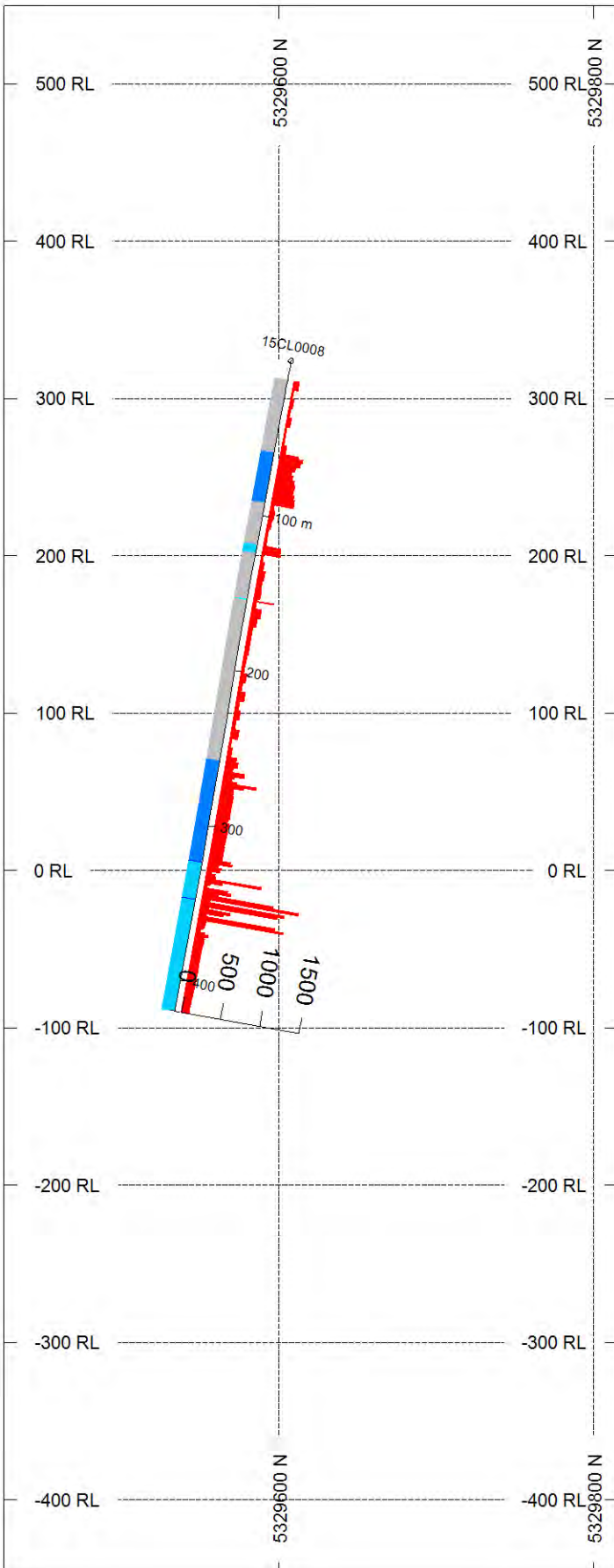
AZIMUTH = 90°



HOLES PLOTTED

TOTAL 1

15CL0008



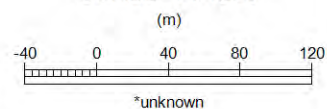
BAR GRAPHS	L/R	COL
Cu_CRYRES_ppm	R	█

ROCK CODES	PAT	LABEL
Lith1	█	Gabbro
	█	OlivineGabbro
	█	Overburden
	█	Anorthosite
	█	Diabase
	█	Sediment

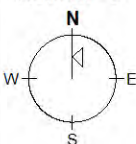
SECTION SPECS:

REF. PT. E, N	300315 m	5329620 m
EXTENTS	390.3 m	997.6 m
SECTION TOP, BOT	549.8 m	-447.8 m
TOLERANCE +/-	169 m	

SCALE 1 : 4220



AZIMUTH = 0°



Appendix C – Geology Logs

HOLEID	FROM	TO	Lithology	Local Unit	Geologist	Color	Grain Size	Modifier	Comments
15CL0006	0	5	Overburden	OB	Steven Crowell	Grey			
15CL0006	5	9.15	Gabbro	GAB	Rachelle Boulanger	Green	VeryFine	Equigranular	Fine grained gabbro with ~60% plag and ~35% pyroxene; maybe up to 5% biotite. No obvious mineral alignment.
15CL0006	9.15	14.75	Gabbro	TAX	Rachelle Boulanger	Green	Coarse	Equigranular	Coarse grained taxitic green and white gabbro contains ~50% plag; 35-40% pyx; 5-7% phlogopite; and 3-5% intermittent disseminated sulphides (pyrrhotite mostly with trace chalcopyrite). Chalcopyrite is ~10% of total sulphide content. Pyrrhotite vein occurs at 11.77 m with alpha = 35. Plag occurs as fine grained euhedral laths and as oikocrysts surrounding pyroxene. Sulphides mostly occur at boundaries between plag and pyx rimmed by serp.
15CL0006	14.75	42.39	Gabbro	PTG	Rachelle Boulanger	Green	Pegmatitic	Pegmatitic	Pegmatitic taxitic gabbro is dark green and white. Contains ~55% plag; 35% pyx; 5-7% bio; local 2-3% magnetite; and 0.5-1% intermittent disseminated blebby sulphides. A 1 cm fault occurs at 42.13 m alpha 44 beta 143. Fill is serp and f.g. wall rock. Slicks suggest reverse movement. Heterogeneous gabbro contains some anhedral med grained plag that rims euhedral pyx. Sometimes contains euhedral coarse laths of plag that are rimmed by anhedral med grained pyx. Blebby serp alt also noted sporadically.

15CL0006	42.39	42.48	MassiveSulphide	MMS	Rachelle Boulanger	Brown	Coarse		Small interval of massive anhedral pyrrhotite; cpy; and pent rimmed on downhole side with euuhedral to subhedral coarse magnetite. Some euuhedral pyx on uphole side.
15CL0006	42.48	349.81	Gabbro	GAB	Rachelle Boulanger	Green	Coarse		Coarse grained green and white olivine gabbro is homogeneous and massive and contains ~45% plag; 40% pyx; ~15% ol and trace mt. Ol are yellow; subhedral grains that are fractured and partially serpentinized. Surrounding ol grains are pyx crystals surrounded by plag oikocrysts. Ol and pyx content varies down-hole. Oxides present up to 10%. Occasional cm to dm scale peg zones. PEG zones occurring more often (up to 60cm)
15CL0006	349.81	366.62	Troctolite	PTG	Dan Foley	Grey	Coarse		Grey med to crs grained weakly serp'ed varitextured chromiferous PTG Augite troctolite w/ 0.25-10% sulphide. Ave sulph content ~1%. Sulph content increases down section. 50% Pl; 30% Ol; 20% CPX and up to 5% Cr spinel. Unit becomes increasingly contaminated down section with common ghost like sections of re-crystallized SEDs. Cr is present in dm to m scale irregular patches and bands. Cr spinels are present in patches as a dusting of sub mm grains.
15CL0006	366.62	366.9	Hornfels	SED	Dan Foley	Grey	Fine	Hornfelsesd	Grey fine grained strongly hornfelsesd SED inclusion or wedge. No bedding or cleavage reamains. Contacts with the over and underlying intrusive are sharp. No sulphides present.

15CL0006	366.9	366.97	MassiveSulphide	MMS	Dan Foley	Brown	Medium		Grey and bronze irrregular to blebby mixed massive sulphide in contaminated PTG intrusive. 60% pyrhotite rich sulphide mixed with contaminated PTG. the 60% sulphide is made up of 57.5% Po; 2% Cpy; and 0.5% Pn.
15CL0006	366.97	367.36	Gabbro	PTG	Dan Foley	Grey	Medium		Grey medium grained strongly contaminated PTG gabbro with 2.5% med to crs irregular textured Po rich sulphides.
15CL0006	367.36	367.43	MassiveSulphide	MMS	Dan Foley	Grey	Medium		Grey to bronze fine to med grained MMS. 30% irregular vein like massive sulphide mixed with strongly hornfelses SEDs. Sulphide sections are roughly planar but with common irregularities. 24% Po; 5% Cpy; 1% Pn.
15CL0006	367.43	383.13	Hornfels	SED	Dan Foley	Grey	Fine	PartiallyMelted	Grey fine grained strongly hornfelses partially metled SEDs with an ave of ~0.1% sulphides. From 375-377m Cpy rich sulphides are present as veins and irregular blebs. 1 cm Cpy rich vein present at 376.51m.
15CL0006	383.13	393.85	Gabbro	DIAB	Dan Foley	Grey	Fine		Grey fine to med fine grained gabbro (probable logan Sill) 55% plag; 45% Px and trace pyrite. Contacts are extremely difficult to distinguish.
15CL0006	393.85	394.51	Sedimentary	SED	Dan Foley	Grey	Fine		Grey fine grained moderately brecciated SEDs. Bedding is visible so hornfelsing must not be very strong. No partial melting present.
15CL0006	394.51	396.82	Gabbro	DIAB	Dan Foley	Grey	Fine		Grey fine grained gabbro or DIAB (probably a logan sill). Contacts are extremely hard to pin down.
15CL0006	396.82	418.28	Sedimentary	SED	Dan Foley	Grey	Fine		grey weakly hornfelses SEDs with a brecciated zone from 397-399m.

15CL0006	418.28	432.61	Gabbro	LSILL	Dan Foley	Grey	Fine		Grey fine grained gabbro or diabase LSILL with occasional greenish plag phenos and trace pyrite. 55%Pl; 45% Px.
15CL0006	432.61	497.66	Sedimentary	SED	Dan Foley	Grey	Fine		Grey fine grained weakly to non hornfelsed SEDs with trace pyrite on fracture surfaces and as disseminated clouds in some beds. Unit contains several meter scale brecciated zones. increased calcite veining from 474-484m.
15CL0006	497.66	584.2	Gabbro	LSILL	Steven Crowell	Grey			Porphyritic LSILL. Grey with large green (sericite alt) plag crystals (up to 5cm) Hematitic staining of plag intensity increases in localized areas with planar calcite veins (<1cm). Both alterations are pervasive. Only visible sulphide is pyrite (0.01%) and is in proximity to calcite veins. Plag- 60-70% CPX- 20-30% Ol- 10%
15CL0006	584.2	612.11	Sediment	SED	Jesse Koroscil	Grey	Silt		fine grained shallowly dipping silt stone (Rove formation shales) occasionally interbedded with fine grained sandstone. small blebs of pyrite (<2mm) disseminated throughout interval.
15CL0006	612.11	612.56	Gabbro	DIAB	Steven Crowell	Grey	Fine		very fine grained intrusive with plag phenocryst (LSILL). Boundaries on each end are cooked and sediments are mixed within the section. trace amounts of sulphides (Cpy-Po) only located within small plag veinlet section seems to be a small cooked dyke of LSILL with mineralization which we haven't seen before.
15CL0006	612.56	684.28	Sediment	SED	Steven Crowell	Grey	Fine		Continuation of rove formation. Shale dominated with sandy to silty interbeds (up to 1m). Minimal pyrite blebs and occasional markisite grains found near calcite veins.

15CL0006	684.28	714.93	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		<p>Fine to med grained melagabbro contains pervasively hematized and locally euhedral porphyritic plag (60%) as well as pyx (~35%) and maybe 5% ol (serp'ed). Local calcite veinlets and rare quartz veinlets present throughout.</p> <p>Disseminated trace sulph (marcasite; pyr). Sulphides are more abundant (0.5-0.75%) from 693.5 - 695.0 m. Sulphides occur as anhedral blebs and squiggles and sometimes form rims around mm-sized pyx grains.</p>
15CL0006	714.93	721.9	Sediment	SED	Rachelle Boulanger	Grey	FineSilt		Same Rove Formation shale as previously described.
15CL0006	721.9	723.03	Gabbro	DIAB	Steven Crowell	Grey	Fine		Dark grey fine grained gabbro contains ~60% plag and ~40% cpx. About 10% of plag occurs as porphyritic laths. mm-sized veinlet at 723.06 m contains green serp (?) at edge and pyr; py; and cpy mineralization. Clear chilled margins at edges with sed. Sulphides are disseminated (pyr) and occur as central veinlet infill with calcite.
15CL0006	723.03	738	Sediment	SED	Steven Crowell	Black	VFineSilt		Rove Formation shale - same as previously logged. Brittle syn-sedimentary structure at 724.4 m contains frags of shale and pyr. Another syn-sed brittle structure at 729.2 m is larger. Contains calcite; frags of shale; and increased pyr abundance. Fractures are lined with thin coat of pyr. Increased calcite makes these structural zones appear bleached to pale grey.
15CL0007	0	39.45	Till	OB	Jesse Koroscil	Brown			

15CL0007	39.45	211.55	Shale	SED	Rachelle Boulanger	Grey	FineSilt	Laminated	Interval of Rove shale with intervals of interbedded fine sandy siltstone. Small amounts of pyrite (0.1%) found throughout the interval. They are largely confined to small fracture fills along with calcite. Calcite veinlets are confined to the very fine sandy siltstone intervals.
15CL0007	211.55	228.4	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		Grey gabbro sill contains ~50% plag ~40% pyx and ~10% serpentinized equant mm sized ol. Sill is locally fractured and weakly serpentinized; especially between 225m and 228.40 m. The upper contact with shale is hard to determine due to fracturing and chlorite/serp alt. The lower contact is clearly defined by a serpentine/chl vein 9 mm wide alpha = 23 beta = 290.
15CL0007	228.4	231.76	Shale	SED	Rachelle Boulanger	Black	VFineSilt	Laminated	Strongly fractured moderately serpentinized and chloritized cooked Rove shale interval. Contains trace sulfides (pyrite) at 231.21m in a fracture. Bedding and laminations characteristic of the shale is not discernable until after 231.0m.
15CL0007	231.76	254.2	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		Interval of grey fine to medium grained sill contains larger 15% serpentinized ol. Also contains 45% plag and 40% f.g. pyx and trace oxides. No sulfides visible. Lower contact with sed has good 20 cm black very fine grained chill zone.
15CL0007	254.2	271.08	Shale	SED	Rachelle Boulanger	Black	VFineSilt	Laminated	Grey to black Rove shale and sandy siltstone is similar to that described from 39.5-211.55 m. Planar bedding and laminations common. Turbidite sequences noted periodically. Sandy-siltstone intervals are more prominent in this interval. No visible sulphides.

15CL0007	271.08	272.87	Gabbro	GAB	Rachelle Boulanger	Grey	Fine		Dark grey fine grained gabbro contains subequal plag and pyx. Has 20 cm chill margins at contacts with sed above and below. Local mm sized calcite veins noted shallow TCA. No visible sulphides. Lower contact with seds is steep (shallow tca) at 24 degrees (no beta).
15CL0007	272.87	347.72	Shale	SED	Rachelle Boulanger	Grey	FineSilt	Laminated	Pale grey to black Rove shale and sandy siltstone same as previously described. No visible alteration or visible sulphides. Consistent planar beds and laminations with some cross laminations and turbidite sometimes seen. Sometimes intersected by calcite veinlets.
15CL0007	347.72	380	Sill	LSILL	Rachelle Boulanger	Grey	Coarse		Homogeneous grey plagioclase phyric Logan Sill contains 45% porphyroclasts of euhedral plagioclase. Groundmass is 55% of sill - composed of ~55% plagioclase and 45% pyx and oxides. Some mm wide quartz +/- calcite veinlets noted periodically.No visible sulphides.
15CL0007	380	399.64	Troctolite	TROC	Jesse Koroscil	Grey			olivine dominant mafic intrusive. roughly equigranular with olivine altered by serp. around 45% Ol < nearly 40% plag < around 15 % pyx and oxides.
15CL0007	399.64	431.26	Gabbro	LSILL	Steven Crowell	Grey	Coarse		classic logan sill. refer to 347.72-380m for description. 2m gradational chilled contact. Contact with seds is very sharp and perpendicular to bedding.
15CL0007	431.26	529.63	Sediment	SED	Steven Crowell	Grey	FineSilt		rove formation sediments. silty shale dominated with very fine grained sand beds. Po found on fractures (0.01%). Trace planar calcite veins (<1cm). Graphitic beds increasing down hole near 480m with Po bands slightly increasing (0.02%)

15CL0007	529.63	530.22	Diabase	GAB	Steven Crowell	Black	VeryFine		very fine grained diabase dyke like feature. To fine grained to get a modal abundance. Very discret contacts of cooked sed.
15CL0007	530.22	536.85	Sediment	SED	Steven Crowell	Grey	FineSilt		rove sediments. See above sediments section for description.
15CL0007	536.85	537.26	Diabase	GAB	Steven Crowell	Grey	Fine		diabase intrusive. PLAG 60% Pyroxene 40%. Ilmenite is present. 0.5% Po present in matrix with <1mm blades. Small 3 cm calcite dominate veinlet in the middle of the small intrusion.
15CL0007	537.26	549.15	Sediment	SED	Steven Crowell	Grey	VeryFine		typical rove sediments. Shale dominated with silty/sandy beds. See above for more specifics.
15CL0007	549.15	553.38	Gabbro	GAB	Steven Crowell	Grey	Medium		Fine grade gabbro PLAG 60% Pyroxene 40%. Calcilte fracture fills are localazied to the first 80cm of section. Serpentine present on fractures. Oxides present (Ilmenite and Magnetite).
15CL0007	553.38	558.71	Diabase	GAB	Steven Crowell	Grey	Fine		Fine grade grey Gabbro. PLAG 70% Pyroxene 30%. ALmost a Leucocratic Gab. Very sharp contact above GAB with a 1-2m chilled zone on each end of section. PLAG pheno cryst (<3cm) present especially in more chilled areas. Magnetite and Ilmenite present.
15CL0007	558.71	562.3	Gabbro	GAB	Steven Crowell	Grey	Medium		Grey gabbro. PLAG 60% Pyroxene 40%. Ilmenite is not present and trace amounts of magnetite. Serpentine present on fractures.
15CL0007	562.3	564.74	Diabase	GAB	Steven Crowell	Grey	Fine		Very similar to 554.38-558.74m. Has a smaller chilled zones but plag phenos (and some sort of carbonate pheno) are present along with higher quantites of magnetite. Ilmenite is once again present. Seems to be a dyke like feature cross cutting medium grained gabbro.

15CL0007	564.74	581.39	Gabbro	GAB	Steven Crowell	Grey	Medium		Similar to 554.38-558.74m. Coarser grained than dyke like gab above. Plag 60% Pyroxene 40%. Ilmenite is not present. Carbonate veinlets/blebs present with a small amount of hematitic alt to the veinlets.
15CL0007	581.39	593.82	Sediment	SED	Steven Crowell	Grey	FineSilt		rove seds. see other descriptions for details. Small chilled margin with plag phenocryst at 592.34m. This indicates that we narrowly missed the side of a dyke.
15CL0007	593.82	596.85	Diabase	GAB	Steven Crowell	Grey	Fine		Diabase very similar to diabase above but ilmenite is present. Plag 53% Pyroxene 42% Oxides 5%. Oxides present (magnetite 90% ilmenite 10%). Plag pheno cryst are present near the chilled margin. There are potential olivines that are fully serpentised near 595m.
15CL0007	596.85	610.84	Sediment	SED	Steven Crowell	Black	VFineSilt		Graphite dominated shale. We know that we are nearing the bottom of the rove formation with the increase of graphite. Small vein of gabbro found at 605.23-605.47m. 1cm wide. Vein is dominated by green plag pheno's.
15CL0007	610.84	613.96	Gabbro	GAB	Steven Crowell	Grey	Medium		medium grained gabbro with 1 section of carbonate blebs (like we saw up hole) and 1 small fault filled with a carb vein and shows nice serp slick and slides. Plag 60% Pyroxene 40%. No chill zone observed. Very difficult to distinguish both contacts.
15CL0007	613.96	642.42	Sediment	SED	Steven Crowell	Black			Graphite rich shale (rove sediments). Small fault at 625.60m. Core is moderately to highly broken up. From 631.80-632.30m a rubble zone of highly graphitic seds is observed.

15CL0007	642.42	648.38	Gabbro	GAB	Rachelle Boulanger	Grey	MediumFine		Medium grey Gabbroic dyke contains 55% plag; 42% pyx; and trace ilm and mt. Upper contact with seds is sharp and steep with a 10 cm zone of cooked seds before it. Beyond gab is extremely f.g. until after 643 m. Locally fractured with calcite veinlets. Lower contact with another gab is also sharp and steeply dipping. This contact has a 2.2 cm dull earthy grey chilled zone. Above that contact this gab is cooked and f.g. up to 647.0m.
15CL0007	648.38	653.66	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		Medium grey medium grained gabbro is similar to previous but contains 60% plag; 38% pyx; with more ilm than the previous gab and less mt. Upper contact with gab is sharp marked by a chilled zone and subsequent intense calcite veining to 649.3m. Lower contact with sed is sharp and steeply dipping with more intense calcite veining from 653 onward.
15CL0007	653.66	714.7	Shale	SED	Rachelle Boulanger	Black	Silt	Laminated	Black shale with rare sandy-silty beds. Interval is graphitic. Also contains more disseminated pyrrhotite which is very fine grained. At 654.1m a 1.1cm wide very strangely textured veinlet cuts shale obliquely. Pyr is present in sub-mm sized grains disseminated through shale and as 1-3 mm laminations conformable to bedding and as fracture lining.

15CL0007	714.7	714.95	Diabase	GAB	Steven Crowell	Grey	Fine		Small intrusive unit. Grey in color and very sharp contacts that are shallow dipping. 60% Plag 40% Pyroxene. Moderat amounts of magnetite and no ilmenite present. . At the lower contact with the sediments we see a carbonate vein cross cutting the seds and the intrusive unit.Within the small veinlet we see a small <3mm bleb of Po.
15CL0007	714.95	780.54	Shale	SED	Steven Crowell	Black	Silt		Same unit as above (653.66-714.7m). Only visibly change is that brown gritty sand beds are abundant from 716-717m. Sand beds are up to 10cm. 749.47-749.97m is a highly carbonatious layer with well formed carb grains that are fining downhole.
15CL0007	780.54	783.22	Gabbro	DIAB	Steven Crowell	Grey	Fine		fg non mineralized. equigranular gabbro. roughly 60% euhedral to subhedral plag. 35 % subhedral pyx and the remainder made up of oxides. most likely mag and ilmenite. both contacts sharp with little chill margins and largely conformable to bedding planes
15CL0007	783.22	798.82	Sediment	SED	Jesse Koroscil	Black			interbedded black (graphitic?) shale and grey siltstone and fg sandstones of the rove form. strong carbonate altered zones and sericite alt? ash layers increase towards contact with iron grainstone of gunflint form.
15CL0007	798.82	801.64	Gabbro	DIAB	Jesse Koroscil	Grey	Fine		fg non mineralized. equigranular gabbro. roughly 60% euhedral to subhedral plag. 35 % subhedral pyx and the remainder made up of oxides. most likely mag and ilmenite. both contacts sharp with little chill margins and largely conformable to bedding planes

15CL0007	801.64	805.85	Sediment	SED	Jesse Koroscil	Grey			black and grey rove form. similar to description above but with less black graphitic shale. fg laminated sandstone dominates interval with increasing amounts of beige chert layers towards contact with iron form. and impact layer. chert/silicified layers range from <1cm to 4cm and may be silicified and altered ash layers. this interval has gradational contact with the impact layer.
15CL0007	805.85	816	IronFormation	IronFormation	Jesse Koroscil	Grey			Possible sudbury impact layer at 805.85-807m defined by well sorted sandstones with mm size rounded lapilli and grades into chaotically bedded angular rip up clast of chert. Which would indicate the potential beginning of gun flint. Sandstones are very carbonaceous with irregular bedding. Sections of speradic round/subrounded chert rip ups within sandstone layers.
15CL0008	0	12.25	Overburden	OB	Steven Crowell	Grey			
15CL0008	12.25	59.55	Sediment	SED	Steven Crowell	Grey			Sand dominate sediments with a moderate amount of graphitic sed at the very beginning of the hole. Carbonate rich noduals near 30m. sandy/silty sections ~42m sed are much more bleached then above sections. Small 2-4mm veinlets of intrusive cross cutting bedding plains. A small slightly altered clay seem at 50m.

15CL0008	59.55	91.85	OlivineGabbro	GAB	Steven Crowell	Grey			Medium grained grey ol gab.50% Plag 25% Ol 15% CPX 10% Oxides +/- biotite. Plag pheno's (<7mm) subeuhedral very poorly formed. Ol sub mm in size and fully altered. CPX sub mm unaltered and it shows oikocristic texture. Oxides (magnetite and ilmenite) seem to increase down hole (up to 15-20%).
15CL0008	91.85	118.8	Sediment	SED	Steven Crowell	Grey			Sandy/Silty rove sediments. Small brecciated section near 97.80m.
15CL0008	118.8	124.48	Gabbro	GAB	Steven Crowell	Grey	Medium		Grey/Green medium to fine grained gab dyke. Plag 45% CPX 40% Oxides 10% Ol 5%. Equigranular fining down wards to a sharp irregular contact.
15CL0008	124.48	154.07	Sediment	SED	Steven Crowell	Grey			Rove Sediments. Irregular bedding and flame structures indicate compression. Slate beds are dominately mm to cm thick. At 138.15m we see a small pinch and swell texture of coarser grained sediments surrounded by slate. At 139.70m there is a small very fine grained veinlet of either silt stone or intrusive. Unable to tell. And we see more flame structures in the slate beds. Trace amounts of rip up clasts that are usually slate rip ups into coarser grained seds.
15CL0008	154.07	154.63	Diabase	GAB	Steven Crowell	Grey	VeryFine		very fine grained diabase gab. grey green in colour with sharp contacts parrallel to bedding. Oxides are present (mag and ill) but to fine grained for modal % of minerals. A veinlet of another intrusive is cross cutting the diab. Trace chalco (0.01%) in the veinlet.

15CL0008	154.63	258.05	Sediment	SED	Rachelle Boulanger	Grey			Rove sediments. see above for details. Noteworthy is a sand bed from 175.56-176m with increased microfractures. Bed is slightly corroded and pitted and there is a marked increased in pyrite/pyrrhotite content along fractures and disseminated in sandstone which is also cemented with calcite.
15CL0008	258.05	323.6	OlivineGabbro	GAB	Rachelle Boulanger	Grey	Medium	Equigranular	Grey med grained Ol Gab to melagab composed of 45-55% plag; 35-45% pyx and 10% ol. Ol is serp'd; serp alt also noted locally along fractures. From 258.05-274.9m visible 1-5 mm round anhedral clots of po and lesser cpy diss'd - often rimmed by serp. Upper contact with SED taken at chilled margin and bleached sed with f.g. black GAB at 29* TCA (no beta). Contact is gradual with red partially melted sed seen till 266.5m.
15CL0008	323.6	324	Anorthosite	D	Rachelle Boulanger	White	Fine		White contains ~90% fine grained plag; 8% dk green to black bio or amph blades and 2% possible equant pyx. Contacts are broken but sharp at 42* TCA. No visible sulphides. GAB units above and below have distinctly different textures.
15CL0008	324	347.5	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		Varitextured grey Ol Gab contains ~45% plag; 40-43% pyx; 10% ol and locally up to 5% red bio; and 2-3% po and cpy. Locally exhibits possible magmatic breccia texture after 339m. Some poss xenoliths/autoliths lend to varitextured nature of gab. A xenolith at 326.4m has po rimming downhole side only. Po and cpy occur together interstitially to plag and pyx as anhedral clots (po>>cpy) Visible possible cpx increases downhole.

15CL0008	347.5	348	Anorthosite	D	Rachelle Boulanger	White	Fine	Massive	Fine grained white anorthositic dyke crosscuts weakly mineralized gab identical to previously described anorthosite. Contains 90% pag; 8% bladed bio or amph; and 2% equant pyx. Upper contact at 40* beta 170* TCA; lower contact at 74* beta 150* TCA. No visible sulphides present.
15CL0008	348	353.7	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		Med-coarse grained gab similar to previous logged unit above anorthosite intrusion. Despite grain size minerals are subhedral to anhedral and boundaries are poorly defined. GAB is fine grained from 348-348.62m - chill zone from above dyke. Interval is still somewhat varietextured with possible traceable autoliths/xenoliths. Po and Cpy present as anhedral clots and blebs <<1mm-8mm. They are dissem'd interstitial to pyx and plag; often rimmed by serp. Serp also occurs after pyx and trace ol.
15CL0008	353.7	420	Gabbro	GAB	Rachelle Boulanger	Grey	Medium		Medium grained grey gab/possible gabbronite contains ~58% plag; 48% brown-purple and dark green pyxs; 3% ol; ~0.5% local po and cpy; and trace oxides. Crystals are anhedral to subhedral and texture gives gab a spotted appearance. Unit is homogeneous. Serp occurs locally as rare veinlets and after ol and pyx. A 2 cm dyke of same anorthositic comp as previously noted intersected at 356.33m at 83*/260*.

Appendix D – Assays and Intervals

SAMPLEID	HOLEID	FROM (m)	TO (m)	Interval (m)	Ag_ppm	Au_ppm	Co_pct	Cu_pct	Ni_pct	Pd_ppm	Pt_ppm	S_pct
40210726	15CL0006	5.27	6	0.73	<0.5	0.003	0.0048	0.0229	0.0124	0.006	0.008	0.11
40210727	15CL0006	6	7.5	1.5	<0.5	0.005	0.0057	0.0431	0.0164	0.009	0.005	0.35
40210728	15CL0006	7.5	9.15	1.65	<0.5	0.002	0.0049	0.0263	0.0127	0.007	0.006	0.13
40210729	15CL0006	9.15	10.5	1.35	<0.5	0.001	0.0048	0.0165	0.0089	0.001	<0.005	0.29
40210731	15CL0006	10.5	12	1.5	<0.5	0.003	0.0074	0.028	0.0236	0.004	<0.005	1.08
40210732	15CL0006	12	13.5	1.5	<0.5	0.01	0.0069	0.0648	0.0447	0.024	0.014	0.79
40210733	15CL0006	13.5	14.75	1.25	0.5	0.012	0.0057	0.0741	0.044	0.054	0.018	0.47
40210734	15CL0006	14.75	16.5	1.75	0.6	0.017	0.009	0.106	0.0798	0.059	0.038	1.02
40210735	15CL0006	16.5	18	1.5	0.6	0.01	0.0096	0.0829	0.0686	0.048	0.019	0.77
40210736	15CL0006	18	19.5	1.5	<0.5	0.018	0.0079	0.0817	0.064	0.063	0.027	0.52
40210737	15CL0006	19.5	21	1.5	<0.5	0.018	0.008	0.0996	0.066	0.08	0.037	0.45
40210738	15CL0006	21	22.5	1.5	<0.5	0.026	0.0081	0.0975	0.0646	0.088	0.03	0.53
40210739	15CL0006	22.5	24	1.5	<0.5	0.006	0.0072	0.0472	0.0444	0.014	0.011	0.35
40210741	15CL0006	24	25.5	1.5	0.7	0.011	0.0076	0.099	0.0703	0.095	0.026	0.35
40210742	15CL0006	25.5	27	1.5	<0.5	0.012	0.0053	0.0622	0.0436	0.083	0.033	0.23
40210743	15CL0006	27	28.5	1.5	0.5	0.028	0.005	0.0739	0.0523	0.235	0.047	0.15
40210744	15CL0006	28.5	30	1.5	<0.5	0.004	0.0044	0.0138	0.0179	0.071	0.024	0.1
40210745	15CL0006	30	31.5	1.5	<0.5	0.013	0.0041	0.0427	0.0363	0.141	0.029	0.14
40210746	15CL0006	31.5	33	1.5	<0.5	0.002	0.0036	0.0115	0.0179	0.019	0.008	0.06
40210747	15CL0006	33	34.5	1.5	<0.5	0.001	0.0026	0.015	0.0059	0.003	<0.005	0.1
40210748	15CL0006	34.5	36	1.5	<0.5	0.002	0.0048	0.0106	0.0252	0.023	0.007	0.05
40210749	15CL0006	36	37.5	1.5	<0.5	0.008	0.0038	0.0305	0.022	0.059	0.027	0.07
40210751	15CL0006	37.5	39	1.5	<0.5	0.002	0.0044	0.0101	0.0222	0.006	0.005	0.03
40210752	15CL0006	39	40.5	1.5	<0.5	0.001	0.0035	0.0106	0.0154	0.004	<0.005	0.03
40210753	15CL0006	40.5	42.18	1.68	<0.5	0.003	0.0052	0.0143	0.0196	0.005	0.005	0.04
40210755	15CL0006	42.18	42.48	0.3	7.1	0.089	0.045	1.67	0.518	0.042	<0.005	13.1
40210757	15CL0006	42.48	43.5	1.02	<0.5	0.005	0.0046	0.0228	0.0152	0.01	0.01	0.08
40210758	15CL0006	43.5	45	1.5	<0.5	0.003	0.0052	0.0159	0.0156	0.011	0.01	0.05
40210759	15CL0006	45	46.5	1.5	<0.5	0.003	0.0054	0.0165	0.0157	0.009	0.009	0.04
40210761	15CL0006	46.5	48	1.5	<0.5	0.004	0.0053	0.0188	0.0142	0.009	0.01	0.04
40210762	15CL0006	48	51	3	<0.5	0.005	0.0047	0.0227	0.0079	0.014	0.014	0.09
40210763	15CL0006	51	54	3	<0.5	0.005	0.0045	0.021	0.0072	0.011	0.014	0.09
40210764	15CL0006	54	57	3	<0.5	0.004	0.0045	0.0216	0.0072	0.015	0.015	0.08
40210765	15CL0006	57	60	3	<0.5	0.004	0.0044	0.0204	0.0074	0.01	0.012	0.05
40210766	15CL0006	60	63	3	<0.5	0.005	0.0048	0.0213	0.0077	0.009	0.011	0.11
40210767	15CL0006	63	66	3	<0.5	0.004	0.0041	0.0184	0.0066	0.014	0.015	0.1
40210768	15CL0006	66	69	3	<0.5	0.003	0.0042	0.0171	0.0061	0.01	0.013	0.11
40210769	15CL0006	69	72	3	<0.5	0.002	0.0036	0.0175	0.0038	0.003	<0.005	0.07
40210771	15CL0006	72	75	3	<0.5	0.003	0.0046	0.0183	0.0059	0.005	0.005	0.07
40210772	15CL0006	75	78	3	<0.5	0.002	0.0035	0.0166	0.0043	0.003	0.007	0.07
40210773	15CL0006	78	81	3	<0.5	0.002	0.0036	0.018	0.0042	0.005	0.008	0.08
40210774	15CL0006	81	84	3	<0.5	0.002	0.0043	0.0216	0.0061	0.007	<0.005	0.08
40210775	15CL0006	84	87	3	<0.5	0.004	0.0044	0.022	0.0075	0.024	0.014	0.07
40210776	15CL0006	87	90	3	<0.5	0.003	0.0039	0.0203	0.0064	0.017	0.011	0.11
40210777	15CL0006	90	93	3	<0.5	0.003	0.0044	0.0199	0.0079	0.007	0.005	0.1
40210778	15CL0006	93	96	3	<0.5	0.005	0.0047	0.0217	0.0082	0.006	<0.005	0.1
40210779	15CL0006	96	99	3	<0.5	0.005	0.0048	0.0227	0.0082	0.011	0.008	0.1
40210781	15CL0006	99	102	3	<0.5	0.004	0.0046	0.0218	0.008	0.019	0.009	0.06
40210782	15CL0006	102	105	3	<0.5	0.004	0.005	0.0226	0.0085	0.014	0.008	0.05
40210783	15CL0006	105	108	3	<0.5	0.002	0.0052	0.0231	0.0088	0.013	0.007	0.07
40210784	15CL0006	108	111	3	<0.5	0.004	0.0049	0.0208	0.0092	0.012	0.006	0.03
40210785	15CL0006	111	114	3	<0.5	0.003	0.0049	0.021	0.0094	0.013	0.008	0.03
40210786	15CL0006	114	117	3	<0.5	0.004	0.0053	0.0206	0.0114	0.019	0.007	0.05
40210787	15CL0006	117	120	3	<0.5	0.004	0.0048	0.0194	0.0107	0.009	<0.005	0.04
40210788	15CL0006	120	123	3	<0.5	0.003	0.0066	0.0206	0.0184	0.013	0.007	0.04
40210789	15CL0006	123	126	3	<0.5	0.001	0.0047	0.0155	0.0106	0.038	0.029	0.03
40210791	15CL0006	126	129	3	<0.5	<0.001	0.0041	0.0148	0.0083	0.032	0.022	0.04

40210792	15CL0006	129	132	3	<0.5	<0.001	0.0046	0.0161	0.0092	0.021	0.019	0.04
40210793	15CL0006	132	135	3	<0.5	<0.001	0.0046	0.0154	0.0098	0.012	0.008	0.04
40210794	15CL0006	135	138	3	<0.5	0.001	0.0047	0.016	0.0103	0.006	0.006	0.04
40210795	15CL0006	138	141	3	<0.5	0.001	0.0053	0.0154	0.0128	0.008	0.009	0.08
40210796	15CL0006	141	144	3	<0.5	0.001	0.0054	0.0148	0.0119	0.009	0.006	0.07
40210797	15CL0006	144	147	3	<0.5	0.001	0.0054	0.0159	0.0127	0.012	0.01	0.05
40210798	15CL0006	147	150	3	<0.5	<0.001	0.0044	0.0141	0.0095	0.003	<0.005	0.05
40210799	15CL0006	150	153	3	<0.5	<0.001	0.0048	0.0159	0.0113	0.002	<0.005	0.04
40210801	15CL0006	153	156	3	<0.5	<0.001	0.0047	0.0163	0.0109	0.003	<0.005	0.04
40210802	15CL0006	156	159	3	<0.5	0.001	0.0044	0.0164	0.0092	0.014	0.01	0.05
40210803	15CL0006	159	162	3	<0.5	0.002	0.0048	0.019	0.0104	0.004	0.006	0.1
40210804	15CL0006	162	165	3	<0.5	0.002	0.005	0.0187	0.0115	0.003	<0.005	0.1
40210805	15CL0006	165	168	3	<0.5	0.002	0.0043	0.0175	0.0097	0.001	<0.005	0.06
40210806	15CL0006	168	171	3	<0.5	0.002	0.0043	0.0173	0.0094	0.001	<0.005	0.08
40210807	15CL0006	171	174	3	<0.5	0.001	0.0042	0.018	0.0105	0.001	<0.005	0.09
40210808	15CL0006	174	177	3	<0.5	0.002	0.0038	0.0178	0.0091	0.001	<0.005	0.09
40210809	15CL0006	177	180	3	<0.5	0.001	0.0032	0.0155	0.0062	0.001	<0.005	0.07
40210811	15CL0006	180	183	3	<0.5	0.002	0.0034	0.014	0.006	0.001	<0.005	0.06
40210812	15CL0006	183	186	3	<0.5	0.003	0.0041	0.0177	0.0079	0.001	<0.005	0.09
40210813	15CL0006	186	189	3	<0.5	0.002	0.0046	0.0188	0.0096	0.006	0.005	0.06
40210814	15CL0006	189	192	3	<0.5	0.002	0.0038	0.0163	0.0073	0.007	0.005	0.04
40210815	15CL0006	192	195	3	<0.5	0.002	0.0051	0.0217	0.0108	0.009	0.008	0.05
40210816	15CL0006	195	198	3	<0.5	0.002	0.0045	0.0209	0.0085	0.007	0.006	0.07
40210817	15CL0006	198	201	3	<0.5	0.001	0.0048	0.0212	0.009	0.008	0.009	0.06
40210818	15CL0006	201	204	3	<0.5	0.002	0.005	0.0235	0.0094	0.013	0.011	0.06
40210819	15CL0006	204	207	3	<0.5	0.002	0.0048	0.0238	0.0093	0.004	<0.005	0.03
40210821	15CL0006	207	210	3	<0.5	0.001	0.0041	0.0193	0.0077	0.001	<0.005	0.02
40210822	15CL0006	210	213	3	<0.5	0.001	0.0041	0.0166	0.0075	0.005	<0.005	0.03
40210823	15CL0006	213	216	3	<0.5	0.001	0.0048	0.0203	0.0091	0.004	<0.005	0.08
40210824	15CL0006	216	219	3	<0.5	0.002	0.0052	0.0242	0.0098	0.005	0.005	0.09
40210825	15CL0006	219	222	3	<0.5	0.001	0.0042	0.0202	0.0075	0.003	<0.005	0.08
40210826	15CL0006	222	225	3	<0.5	0.001	0.0044	0.0225	0.0075	0.003	<0.005	0.12
40210827	15CL0006	225	228	3	<0.5	0.001	0.0041	0.0192	0.0074	0.002	<0.005	0.08
40210828	15CL0006	228	231	3	<0.5	0.001	0.0044	0.0203	0.008	0.003	<0.005	0.07
40210829	15CL0006	231	234	3	<0.5	0.001	0.0045	0.0212	0.0084	0.002	<0.005	0.11
40210831	15CL0006	234	237	3	<0.5	<0.001	0.0049	0.0209	0.0092	0.012	0.006	0.12
40210832	15CL0006	237	240	3	<0.5	<0.001	0.0049	0.0196	0.0106	0.002	<0.005	0.09
40210833	15CL0006	240	243	3	<0.5	<0.001	0.0044	0.019	0.008	0.001	<0.005	0.04
40210834	15CL0006	243	246	3	<0.5	0.001	0.0047	0.0209	0.0091	0.002	<0.005	0.11
40210835	15CL0006	246	249	3	<0.5	0.002	0.0058	0.0196	0.0138	0.006	<0.005	0.09
40210836	15CL0006	249	252	3	<0.5	0.001	0.0062	0.0214	0.0164	0.008	<0.005	0.09
40210837	15CL0006	252	255	3	<0.5	0.001	0.0044	0.0187	0.0073	0.001	<0.005	0.09
40210838	15CL0006	255	258	3	<0.5	0.002	0.0054	0.0216	0.01	0.005	0.005	0.12
40210839	15CL0006	258	261	3	<0.5	0.003	0.005	0.0222	0.0095	0.005	0.007	0.1
40210841	15CL0006	261	264	3	<0.5	0.002	0.005	0.0224	0.0089	0.008	0.01	0.09
40210842	15CL0006	264	267	3	<0.5	0.002	0.005	0.0245	0.0092	0.008	0.011	0.09
40210843	15CL0006	267	270	3	<0.5	0.002	0.0048	0.0222	0.0083	0.007	0.009	0.06
40210844	15CL0006	270	273	3	<0.5	0.003	0.0056	0.022	0.0112	0.014	0.017	0.06
40210845	15CL0006	273	276	3	<0.5	0.006	0.0049	0.0197	0.0106	0.01	0.018	0.08
40210846	15CL0006	276	279	3	<0.5	0.007	0.0048	0.0203	0.0111	0.025	0.033	0.08
40210847	15CL0006	279	282	3	<0.5	0.006	0.0044	0.0205	0.0084	0.008	0.015	0.08
40210848	15CL0006	282	285	3	<0.5	0.003	0.0052	0.0229	0.0097	0.008	0.01	0.07
40210849	15CL0006	285	288	3	<0.5	0.006	0.0051	0.024	0.0103	0.021	0.031	0.07
40210851	15CL0006	288	291	3	<0.5	0.008	0.0051	0.0236	0.0109	0.007	0.01	0.09
40210852	15CL0006	291	294	3	<0.5	0.006	0.0052	0.021	0.0109	0.012	0.015	0.09
40210853	15CL0006	294	297	3	<0.5	0.006	0.0054	0.0242	0.0116	0.01	0.014	0.1
40210854	15CL0006	297	300	3	<0.5	0.006	0.0053	0.0231	0.0112	0.013	0.014	0.09
40210855	15CL0006	300	303	3	<0.5	0.005	0.0053	0.0237	0.0113	0.01	0.017	0.1
40210856	15CL0006	303	306	3	<0.5	0.005	0.0055	0.0215	0.0129	0.016	0.019	0.09

40210857	15CL0006	306	309	3	<0.5	0.004	0.0053	0.0217	0.013	0.02	0.021	0.09
40210858	15CL0006	309	312	3	<0.5	0.006	0.0049	0.0231	0.0127	0.005	0.007	0.08
40210859	15CL0006	312	315	3	<0.5	0.004	0.0056	0.0208	0.0156	0.011	0.012	0.06
40210861	15CL0006	315	318	3	<0.5	0.004	0.0055	0.02	0.0171	0.009	0.01	0.06
40210862	15CL0006	318	321	3	<0.5	0.002	0.0056	0.0167	0.0198	0.008	0.006	0.07
40210863	15CL0006	321	324	3	<0.5	0.001	0.0061	0.0119	0.0285	0.007	0.007	0.04
40210864	15CL0006	324	327	3	<0.5	0.002	0.0058	0.0133	0.0276	0.01	0.008	0.04
40210865	15CL0006	327	330	3	<0.5	0.003	0.0067	0.02	0.0408	0.017	0.008	0.04
40210866	15CL0006	330	333	3	<0.5	0.002	0.0066	0.0203	0.0417	0.013	0.007	0.05
40210867	15CL0006	333	336	3	<0.5	0.003	0.0064	0.0353	0.0462	0.034	0.007	0.1
40210868	15CL0006	336	339	3	<0.5	0.001	0.0047	0.0102	0.0299	0.012	0.005	0.03
40210869	15CL0006	339	342	3	<0.5	0.008	0.0068	0.0273	0.0519	0.061	0.024	0.06
40210871	15CL0006	342	345	3	<0.5	0.002	0.0069	0.0147	0.0452	0.014	0.006	0.05
40210872	15CL0006	345	348	3	<0.5	0.003	0.0061	0.0168	0.0416	0.031	0.009	0.06
40210873	15CL0006	348	349.81	1.81	<0.5	0.009	0.0063	0.0389	0.0486	0.114	0.029	0.06
40210874	15CL0006	349.81	351	1.19	<0.5	0.017	0.0064	0.093	0.0814	0.255	0.055	0.18
40210875	15CL0006	351	352.5	1.5	0.6	0.034	0.0086	0.179	0.129	0.324	0.085	0.43
40210876	15CL0006	352.5	354	1.5	0.6	0.033	0.0084	0.1935	0.1415	0.397	0.066	0.45
40210877	15CL0006	354	355.5	1.5	0.7	0.028	0.0094	0.1915	0.1335	0.402	0.083	0.48
40210878	15CL0006	355.5	357	1.5	0.9	0.044	0.01	0.273	0.1765	0.434	0.092	0.72
40210879	15CL0006	357	358.5	1.5	1.1	0.061	0.0104	0.34	0.208	0.522	0.113	0.79
40210881	15CL0006	358.5	360	1.5	0.6	0.027	0.0085	0.179	0.1275	0.278	0.059	0.49
40210882	15CL0006	360	361.5	1.5	2.2	0.087	0.0135	0.627	0.315	0.683	0.134	1.59
40210883	15CL0006	361.5	363	1.5	0.7	0.032	0.0107	0.235	0.155	0.36	0.087	0.59
40210884	15CL0006	363	364.5	1.5	0.6	0.036	0.0093	0.159	0.125	0.135	0.074	0.67
40210885	15CL0006	364.5	366	1.5	0.9	0.026	0.0129	0.214	0.126	0.117	0.046	1.01
40210886	15CL0006	366	366.9	0.9	<0.5	0.017	0.006	0.094	0.066	0.12	0.039	0.19
40210890	15CL0006	366.9	367.51	0.61	0.9	0.036	0.034	0.29	0.246	0.107	0.033	5.81
40210892	15CL0006	367.51	369	1.49	<0.5	<0.001	0.0022	0.0864	0.011	0.007	<0.005	0.16
40210893	15CL0006	369	370.5	1.5	<0.5	<0.001	0.0024	0.0333	0.0302	0.118	0.045	0.08
40210894	15CL0006	370.5	372	1.5	<0.5	<0.001	0.0017	0.0123	0.0055	0.008	<0.005	0.04
40210895	15CL0006	372	373.5	1.5	<0.5	<0.001	0.0018	0.003	0.0065	0.001	<0.005	0.03
40210896	15CL0006	373.5	375	1.5	<0.5	<0.001	0.0019	0.0006	0.0105	0.054	0.04	0.03
40210897	15CL0006	375	376.5	1.5	1.5	0.036	0.0058	0.1125	0.1635	0.676	0.29	0.3
40210898	15CL0006	376.5	378	1.5	1.7	0.049	0.0072	0.1505	0.209	1.165	0.665	0.34
40210899	15CL0006	378	381	3	<0.5	<0.001	0.0022	0.0127	0.0089	0.005	<0.005	0.07
40210901	15CL0006	381	383.13	2.13	<0.5	0.001	0.0024	0.0318	0.0106	0.006	<0.005	0.27
40210902	15CL0006	383.13	384	0.87	<0.5	0.004	0.0054	0.0291	0.0071	0.01	<0.005	0.2
40210903	15CL0006	384	387	3	<0.5	0.002	0.005	0.0267	0.0057	0.011	<0.005	0.04
40210904	15CL0006	387	390	3	<0.5	0.002	0.0055	0.0256	0.009	0.009	<0.005	0.06
40210905	15CL0006	390	393	3	<0.5	0.003	0.0055	0.0254	0.008	0.01	<0.005	0.07
40210906	15CL0006	393	393.85	0.85	<0.5	0.002	0.0048	0.0255	0.0074	0.009	<0.005	0.39
40210907	15CL0006	393.85	394.51	0.66	<0.5	<0.001	0.0024	0.012	0.0081	0.003	<0.005	0.21
40210908	15CL0006	394.51	396.82	2.31	<0.5	0.002	0.0053	0.0259	0.0082	0.01	<0.005	0.11
40210909	15CL0006	396.82	399	2.18	<0.5	<0.001	0.0008	0.002	0.0031	0.001	<0.005	1.32
40210911	15CL0006	399	402	3	<0.5	<0.001	0.002	0.0043	0.0071	0.002	<0.005	0.03
40210912	15CL0006	402	405	3	<0.5	<0.001	0.0014	0.0005	0.0047	0.001	<0.005	0.03
40210913	15CL0006	405	408	3	<0.5	<0.001	0.002	0.01	0.0077	0.002	<0.005	0.09
40210914	15CL0006	408	411	3	<0.5	<0.001	0.0013	0.0008	0.0048	0.001	<0.005	0.04
40210915	15CL0006	411	414	3	<0.5	<0.001	0.0016	0.0023	0.0058	0.001	<0.005	0.02
40210916	15CL0006	414	417	3	<0.5	<0.001	0.0015	0.003	0.0058	0.001	<0.005	0.02
40210917	15CL0006	417	418.28	1.28	<0.5	<0.001	0.0021	0.0014	0.0082	0.002	<0.005	0.02
40210918	15CL0006	418.28	420	1.72	<0.5	0.002	0.0053	0.0375	0.0069	0.01	<0.005	0.11
40210919	15CL0006	420	423	3	<0.5	0.003	0.0053	0.0272	0.0073	0.01	<0.005	0.06
40210921	15CL0006	423	426	3	<0.5	0.002	0.0053	0.0211	0.0072	0.01	<0.005	0.04
40210922	15CL0006	426	429	3	<0.5	0.003	0.0053	0.0269	0.007	0.01	<0.005	0.03
40210923	15CL0006	429	430.8	1.8	<0.5	0.004	0.0054	0.0256	0.007	0.01	<0.005	0.04
40210924	15CL0006	430.8	432.61	1.81	<0.5	0.003	0.005	0.0243	0.0073	0.01	<0.005	0.04
40210925	15CL0006	432.61	435	2.39	<0.5	<0.001	0.0014	0.0016	0.0052	0.001	<0.005	0.01

40210926	15CL0006	435	438	3	<0.5	<0.001	0.0015	0.0015	0.0055	0.001	<0.005	0.02
40210927	15CL0006	438	441	3	<0.5	<0.001	0.0019	0.0122	0.0073	0.003	<0.005	0.18
40210928	15CL0006	441	444	3	<0.5	0.001	0.0014	0.0074	0.0063	0.002	<0.005	1.2
40210929	15CL0006	444	447	3	<0.5	0.001	0.0013	0.0058	0.0057	0.002	<0.005	1.14
40210931	15CL0006	447	450	3	<0.5	<0.001	0.0013	0.0019	0.0052	0.001	<0.005	0.16
40210932	15CL0006	450	453	3	<0.5	<0.001	0.0012	0.0023	0.005	0.001	<0.005	0.15
40210933	15CL0006	453	456	3	<0.5	<0.001	0.0013	0.0079	0.0044	0.001	<0.005	0.03
40210934	15CL0006	456	459	3	<0.5	<0.001	0.0013	0.0033	0.0052	0.001	<0.005	0.04
40210935	15CL0006	459	462	3	<0.5	<0.001	0.002	0.009	0.0076	0.002	<0.005	0.39
40210936	15CL0006	462	465	3	<0.5	<0.001	0.0018	0.0096	0.0075	0.002	<0.005	0.19
40210937	15CL0006	465	468	3	<0.5	<0.001	0.0013	0.0042	0.0048	0.001	<0.005	0.04
40210938	15CL0006	468	471	3	<0.5	<0.001	0.0017	0.0025	0.0065	0.001	<0.005	0.03
40210939	15CL0006	471	474	3	<0.5	<0.001	0.0015	0.0041	0.0064	0.001	<0.005	0.02
40210941	15CL0006	474	477	3	<0.5	<0.001	0.0013	0.0027	0.005	0.001	<0.005	0.21
40210942	15CL0006	477	480	3	<0.5	<0.001	0.0009	0.001	0.0038	0.001	<0.005	0.58
40210943	15CL0006	480	483	3	<0.5	<0.001	0.0015	0.0033	0.0058	0.001	<0.005	0.11
40210944	15CL0006	483	486	3	<0.5	<0.001	0.0018	0.0053	0.0075	0.002	<0.005	0.13
40210945	15CL0006	486	489	3	<0.5	0.001	0.0017	0.0049	0.0064	0.001	<0.005	0.15
40210946	15CL0006	489	492	3	<0.5	<0.001	0.0019	0.0063	0.0077	0.002	<0.005	0.17
40210947	15CL0006	492	495	3	<0.5	<0.001	0.0019	0.013	0.0072	0.002	<0.005	0.24
40210948	15CL0006	495	497.66	2.66	<0.5	<0.001	0.0027	0.0191	0.0086	0.004	<0.005	0.6
40210949	15CL0006	497.66	501	3.34	<0.5	0.001	0.0031	0.0173	0.0024	0.006	<0.005	0.07
40210951	15CL0006	501	504	3	<0.5	0.001	0.003	0.0197	0.0023	0.005	<0.005	0.04
40210952	15CL0006	504	507	3	<0.5	0.001	0.0027	0.0176	0.0023	0.008	<0.005	0.04
40210953	15CL0006	507	510	3	<0.5	0.001	0.0025	0.0116	0.0025	0.011	<0.005	0.47
40210954	15CL0006	510	513	3	<0.5	0.001	0.0026	0.0191	0.0022	0.007	<0.005	0.42
40210955	15CL0006	513	516	3	<0.5	0.001	0.0026	0.0162	0.0021	0.006	<0.005	0.21
40210956	15CL0006	516	519	3	<0.5	0.001	0.0024	0.014	0.0021	0.006	<0.005	0.09
40210957	15CL0006	519	522	3	<0.5	<0.001	0.0029	0.0166	0.0025	0.006	<0.005	0.06
40210958	15CL0006	522	525	3	<0.5	0.002	0.0026	0.0127	0.0027	0.006	<0.005	0.07
40210959	15CL0006	525	528	3	<0.5	0.002	0.0025	0.0194	0.002	0.006	<0.005	0.03
40210961	15CL0006	528	531	3	<0.5	0.001	0.0025	0.0154	0.0021	0.006	<0.005	0.09
40210962	15CL0006	531	534	3	<0.5	0.003	0.0031	0.0197	0.002	0.005	<0.005	0.1
40210963	15CL0006	534	537	3	<0.5	0.003	0.0042	0.0284	0.001	<0.001	<0.005	0.16
40210964	15CL0006	537	540	3	<0.5	0.006	0.0039	0.0396	0.0017	0.004	0.006	0.6
40210965	15CL0006	540	543	3	<0.5	0.003	0.0029	0.02	0.0023	0.008	<0.005	0.45
40210966	15CL0006	543	546	3	<0.5	0.003	0.0034	0.0224	0.0026	0.021	0.005	0.05
40210967	15CL0006	546	549	3	<0.5	0.002	0.0034	0.0231	0.003	0.008	<0.005	0.06
40210968	15CL0006	549	552	3	<0.5	0.002	0.0036	0.0238	0.0032	0.007	<0.005	0.05
40210969	15CL0006	552	555	3	<0.5	0.003	0.0034	0.023	0.0035	0.007	<0.005	0.05
40210971	15CL0006	555	558	3	<0.5	0.002	0.0035	0.0237	0.0033	0.007	<0.005	0.05
40210972	15CL0006	558	561	3	<0.5	0.003	0.0038	0.0232	0.0038	0.007	<0.005	0.15
40210973	15CL0006	561	564	3	<0.5	0.002	0.0038	0.0292	0.0038	0.005	<0.005	0.09
40210974	15CL0006	564	567	3	<0.5	0.003	0.0041	0.0293	0.0037	0.009	<0.005	0.06
40210975	15CL0006	567	570	3	<0.5	<0.001	0.0041	0.0301	0.004	0.01	<0.005	0.31
40210976	15CL0006	570	573	3	<0.5	0.001	0.0036	0.0211	0.0034	0.008	<0.005	0.13
40210977	15CL0006	573	576	3	<0.5	0.001	0.0039	0.0279	0.004	0.01	<0.005	0.11
40210978	15CL0006	576	579	3	<0.5	<0.001	0.0041	0.0272	0.0054	0.017	0.007	0.17
40210979	15CL0006	579	582	3	<0.5	0.001	0.0041	0.0299	0.0056	0.02	0.006	0.09
40210981	15CL0006	582	584.2	2.2	<0.5	0.005	0.0044	0.0316	0.0068	0.015	0.005	0.39
40210982	15CL0006	584.2	585	0.8	0.04	0.001	0.00214	0.007	0.011	0.002	<0.005	0.68
40210983	15CL0006	585	588	3	0.04	<0.001	0.00203	0.006	0.009	0.001	<0.005	0.63
40210984	15CL0006	588	591	3	0.09	<0.001	0.00227	0.008	0.007	0.002	<0.005	0.95
40210985	15CL0006	591	594	3	0.07	<0.001	0.00196	0.00538	0.00725	0.002	<0.005	0.41
40210986	15CL0006	594	597	3	0.08	<0.001	0.0021	0.007	0.005	0.002	<0.005	0.99
40210987	15CL0006	597	600	3	0.13	<0.001	0.00236	0.008	0.011	0.002	<0.005	1.3
40210988	15CL0006	600	603	3	0.05	<0.001	0.00201	0.00516	0.00789	0.001	<0.005	0.27
40210989	15CL0006	603	606	3	0.13	0.002	0.00226	0.01	0.01	0.002	<0.005	1.28
40210991	15CL0006	606	609	3	0.19	<0.001	0.00273	0.014	0.008	0.002	<0.005	2.16

40210992	15CL0006	609	612.11	3.11	0.17	<0.001	0.00201	0.009	0.01	0.002	<0.005	0.69
40210993	15CL0006	612.11	612.56	0.45	<0.5	0.002	0.0038	0.0302	0.0075	0.007	<0.005	0.83
40210994	15CL0006	612.56	615	2.44	0.03	<0.001	0.0015	0.0028	0.00575	0.001	<0.005	0.08
40210995	15CL0006	615	618	3	0.06	<0.001	0.0019	0.00431	0.0068	0.001	<0.005	0.42
40210996	15CL0006	618	621	3	0.2	<0.001	0.00261	0.011	0.01	0.001	<0.005	2.23
40210997	15CL0006	621	624	3	0.04	<0.001	0.00172	0.0036	0.00636	0.001	<0.005	0.28
40210998	15CL0006	624	630	6	0.08	0.001	0.00221	0.006	0.006	0.001	<0.005	0.87
40210999	15CL0006	630	636	6	0.14	0.001	0.00203	0.007	0.007	0.001	<0.005	1.18
40211001	15CL0006	636	642	6	0.14	0.002	0.00207	0.008	0.009	0.002	<0.005	0.98
40211002	15CL0006	642	648	6	0.07	<0.001	0.00169	0.00402	0.00645	0.001	<0.005	0.35
40211003	15CL0006	648	654	6	0.16	<0.001	0.00218	0.007	0.005	0.002	<0.005	0.67
40211004	15CL0006	654	660	6	0.14	0.001	0.0024	0.008	0.007	0.002	<0.005	1.09
40211005	15CL0006	660	666	6	0.15	0.001	0.00238	0.007	0.009	0.002	<0.005	1.19
40211006	15CL0006	666	672	6	0.15	0.001	0.00239	0.008	0.01	0.002	<0.005	1.02
40211007	15CL0006	672	678	6	0.2	0.001	0.00248	0.009	0.008	0.002	<0.005	1.38
40211008	15CL0006	678	683	5	<0.5	<0.001	0.0025	0.0091	0.0095	0.002	<0.005	1.21
40211009	15CL0006	683	684.3	1.3	<0.5	0.001	0.0024	0.0089	0.009	0.002	<0.005	0.97
40211011	15CL0006	684.3	686	1.7	<0.5	<0.001	0.0052	0.0276	0.0071	0.01	<0.005	0.12
40211012	15CL0006	686	687.5	1.5	<0.5	0.001	0.0052	0.0297	0.0075	0.011	<0.005	0.09
40211013	15CL0006	687.5	689	1.5	<0.5	<0.001	0.005	0.0279	0.0074	0.011	<0.005	0.11
40211014	15CL0006	689	690.5	1.5	<0.5	0.001	0.0052	0.0283	0.0075	0.011	<0.005	0.12
40211015	15CL0006	690.5	692	1.5	<0.5	0.002	0.0055	0.0279	0.0075	0.01	<0.005	0.05
40211016	15CL0006	692	693.73	1.73	<0.5	0.011	0.0054	0.0293	0.007	0.011	<0.005	0.1
40211017	15CL0006	693.73	695	1.27	<0.5	<0.001	0.0058	0.0283	0.0081	0.01	<0.005	0.31
40211018	15CL0006	695	696.5	1.5	<0.5	0.001	0.0053	0.0308	0.0058	0.011	<0.005	0.23
40211019	15CL0006	696.5	698	1.5	<0.5	0.003	0.0056	0.0292	0.0079	0.01	<0.005	0.05
40211021	15CL0006	698	699.5	1.5	<0.5	0.005	0.0059	0.03	0.0088	0.011	<0.005	0.03
40211022	15CL0006	699.5	701	1.5	<0.5	0.004	0.0061	0.0285	0.0098	0.011	<0.005	0.04
40211023	15CL0006	701	702.5	1.5	<0.5	0.003	0.0062	0.0276	0.0099	0.011	<0.005	0.03
40211024	15CL0006	702.5	704	1.5	<0.5	0.003	0.006	0.0318	0.0088	0.01	<0.005	0.09
40211025	15CL0006	704	705.5	1.5	<0.5	0.002	0.006	0.0312	0.0087	0.011	<0.005	0.13
40211026	15CL0006	705.5	707	1.5	<0.5	0.004	0.0057	0.0298	0.0079	0.01	<0.005	0.03
40211027	15CL0006	707	708.5	1.5	<0.5	0.003	0.0058	0.0295	0.0078	0.011	<0.005	0.11
40211028	15CL0006	708.5	710	1.5	<0.5	0.003	0.0058	0.0288	0.0079	0.011	<0.005	0.03
40211029	15CL0006	710	711.5	1.5	<0.5	0.003	0.0055	0.028	0.0073	0.011	<0.005	0.03
40211031	15CL0006	711.5	713	1.5	<0.5	0.003	0.0059	0.0284	0.0091	0.011	<0.005	0.03
40211032	15CL0006	713	714.9	1.9	<0.5	0.003	0.0057	0.0282	0.008	0.01	<0.005	0.14
40211033	15CL0006	714.9	719	4.1	<0.5	0.001	0.0028	0.0105	0.01	0.002	<0.005	1.54
40211034	15CL0006	719	721.9	2.9	<0.5	0.003	0.003	0.0107	0.01	0.003	<0.005	1.65
40211035	15CL0006	721.9	723	1.1	0.8	0.004	0.0059	0.0563	0.0079	0.01	<0.005	0.49
40211036	15CL0006	723	729	6	<0.5	0.002	0.0025	0.009	0.0092	0.002	<0.005	0.78
40211037	15CL0006	729	735	6	<0.5	0.002	0.0026	0.0093	0.0091	0.002	<0.005	1.15
40211038	15CL0006	735	738	3	<0.5	0.001	0.0026	0.0097	0.0092	0.002	<0.005	1.23
40211040	15CL0007	39.45	45	5.55	0.04	0.001	0.00182	0.0028	0.00583	0.001	<0.005	0.02
40211041	15CL0007	45	51	6	0.09	0.001	0.00202	0.00583	0.00691	0.002	<0.005	0.13
40211042	15CL0007	51	57	6	0.11	0.001	0.00191	0.00564	0.00652	0.001	<0.005	0.19
40211043	15CL0007	57	63	6	0.04	0.001	0.00164	0.0024	0.00547	0.001	<0.005	0.01
40211044	15CL0007	63	69	6	0.09	0.001	0.00213	0.00551	0.00738	<0.001	<0.005	0.12
40211045	15CL0007	69	75	6	0.08	0.001	0.00208	0.00508	0.00723	<0.001	<0.005	0.16
40211046	15CL0007	75	81	6	0.06	0.001	0.00189	0.00369	0.00653	<0.001	<0.005	0.06
40211047	15CL0007	81	87	6	0.13	0.002	0.00192	0.00761	0.00685	0.001	<0.005	0.24
40211048	15CL0007	87	93	6	0.06	0.001	0.00187	0.00372	0.00637	<0.001	<0.005	0.07
40211050	15CL0007	93	99	6	0.06	0.001	0.00215	0.00424	0.00735	0.001	<0.005	0.07
40211051	15CL0007	99	105	6	0.08	0.001	0.00197	0.00487	0.00692	<0.001	<0.005	0.1
40211052	15CL0007	105	111	6	0.05	0.001	0.00199	0.00363	0.00688	0.001	<0.005	0.03
40211053	15CL0007	111	117	6	0.05	0.001	0.00184	0.00319	0.00622	<0.001	<0.005	0.03
40211054	15CL0007	117	123	6	0.17	0.002	0.00207	0.0104	0.00742	0.002	<0.005	0.29
40211055	15CL0007	123	129	6	0.07	0.001	0.00217	0.00427	0.00751	0.001	<0.005	0.07
40211056	15CL0007	129	135	6	0.05	0.001	0.00167	0.00282	0.00535	0.001	<0.005	0.03

40211057	15CL0007	135	141	6	0.05	0.001	0.00175	0.00306	0.00572	0.001	<0.005	0.04
40211058	15CL0007	141	147	6	0.38	0.004	0.00246	0.022	0.008	0.003	<0.005	0.8
40211060	15CL0007	147	153	6	0.05	0.001	0.00153	0.00292	0.00547	0.001	<0.005	0.03
40211061	15CL0007	153	159	6	0.05	<0.001	0.00131	0.00222	0.00471	0.001	<0.005	0.01
40211062	15CL0007	159	165	6	0.06	0.001	0.00168	0.00337	0.00589	0.001	<0.005	0.03
40211063	15CL0007	165	171	6	0.07	0.002	0.00361	0.0109	0.00717	0.01	<0.005	0.02
40211064	15CL0007	171	177	6	0.06	0.002	0.00306	0.00906	0.00686	0.007	<0.005	0.02
40211065	15CL0007	177	183	6	0.07	0.001	0.00148	0.00322	0.0053	0.001	<0.005	0.05
40211066	15CL0007	183	189	6	0.07	0.001	0.00183	0.00377	0.00638	0.001	<0.005	0.08
40211067	15CL0007	189	195	6	0.13	0.002	0.00195	0.00718	0.00724	0.002	<0.005	0.23
40211068	15CL0007	195	201	6	0.05	0.001	0.00142	0.00279	0.00491	0.001	<0.005	0.04
40211069	15CL0007	201	207	6	0.08	0.001	0.00186	0.00438	0.00688	0.001	<0.005	0.1
40211071	15CL0007	207	211.55	4.55	<0.5	0.001	0.0017	0.0035	0.006	0.001	<0.005	0.03
40211072	15CL0007	211.55	213	1.45	<0.5	0.001	0.0059	0.0142	0.0187	0.004	<0.005	0.07
40211073	15CL0007	213	216	3	<0.5	0.001	0.006	0.0143	0.0191	0.004	<0.005	0.06
40211074	15CL0007	216	219	3	<0.5	<0.001	0.0059	0.0129	0.0206	0.003	<0.005	0.05
40211075	15CL0007	219	222	3	<0.5	<0.001	0.0053	0.0129	0.0186	0.004	<0.005	0.06
40211076	15CL0007	222	225	3	<0.5	0.001	0.0053	0.0134	0.0174	0.004	<0.005	0.06
40211077	15CL0007	225	228	3	<0.5	0.001	0.0055	0.0142	0.0183	0.004	<0.005	0.13
40211078	15CL0007	228	231	3	<0.5	0.001	0.0045	0.0128	0.0146	0.004	<0.005	0.09
40211079	15CL0007	231	234	3	<0.5	0.003	0.0049	0.0261	0.007	0.009	<0.005	0.06
40211081	15CL0007	234	237	3	<0.5	0.003	0.0051	0.0266	0.0071	0.01	<0.005	0.03
40211082	15CL0007	237	240	3	<0.5	0.003	0.0052	0.027	0.0071	0.01	<0.005	0.02
40211083	15CL0007	240	243	3	<0.5	0.003	0.0053	0.0276	0.0075	0.01	<0.005	0.03
40211084	15CL0007	243	246	3	0.5	0.003	0.0053	0.0273	0.0078	0.01	<0.005	0.03
40211085	15CL0007	246	249	3	0.5	0.003	0.005	0.027	0.0075	0.01	<0.005	0.04
40211086	15CL0007	249	252	3	<0.5	0.003	0.0056	0.0278	0.0072	0.01	<0.005	0.03
40211087	15CL0007	252	254.2	2.2	<0.5	0.003	0.0057	0.0272	0.0077	0.01	<0.005	0.05
40211088	15CL0007	254.2	258	3.8	<0.5	<0.001	0.0016	0.0028	0.0052	<0.001	<0.005	0.04
40211089	15CL0007	258	261	3	<0.5	0.002	0.0018	0.0077	0.0059	0.002	<0.005	0.42
40211091	15CL0007	261	264	3	<0.5	0.002	0.002	0.0078	0.0068	0.001	<0.005	0.37
40211092	15CL0007	264	267	3	<0.5	0.002	0.0021	0.0087	0.0075	0.002	<0.005	0.46
40211093	15CL0007	267	270	3	<0.5	0.001	0.0016	0.0061	0.006	0.001	<0.005	0.25
40211094	15CL0007	270	273	3	<0.5	0.003	0.0049	0.0229	0.0068	0.008	<0.005	0.1
40211095	15CL0007	273	276	3	<0.5	0.001	0.0016	0.004	0.0062	0.001	<0.005	0.19
40211096	15CL0007	276	282	6	<0.5	<0.001	0.0016	0.0029	0.0057	<0.001	<0.005	0.07
40211097	15CL0007	282	288	6	<0.5	0.001	0.0014	0.0032	0.0057	0.001	<0.005	0.1
40211098	15CL0007	288	294	6	<0.5	0.001	0.0016	0.0046	0.0063	0.001	<0.005	0.28
40211099	15CL0007	294	300	6	<0.5	0.001	0.0014	0.0028	0.0055	<0.001	<0.005	0.07
40211101	15CL0007	300	306	6	<0.5	0.001	0.0018	0.0039	0.0067	0.001	<0.005	0.11
40211102	15CL0007	306	312	6	<0.5	0.001	0.0015	0.0034	0.0062	0.001	<0.005	0.14
40211103	15CL0007	312	318	6	<0.5	0.001	0.0019	0.0045	0.0069	0.001	<0.005	0.15
40211104	15CL0007	318	324	6	<0.5	0.001	0.0018	0.0044	0.0071	0.001	<0.005	0.23
40211105	15CL0007	324	330	6	<0.5	0.001	0.0016	0.0039	0.0066	0.001	<0.005	0.19
40211106	15CL0007	330	336	6	<0.5	0.001	0.0021	0.0059	0.0079	0.001	<0.005	0.6
40211107	15CL0007	336	342	6	<0.5	<0.001	0.0016	0.0036	0.0067	0.001	<0.005	0.14
40211108	15CL0007	342	345	3	<0.5	<0.001	0.0021	0.0055	0.0081	0.001	<0.005	0.41
40211109	15CL0007	345	347.72	2.72	<0.5	0.001	0.0024	0.0077	0.0092	0.002	<0.005	0.94
40211111	15CL0007	347.72	351	3.28	<0.5	0.002	0.0035	0.0246	0.0031	0.006	<0.005	0.1
40211112	15CL0007	351	354	3	<0.5	0.002	0.0031	0.0215	0.0024	0.006	<0.005	0.05
40211113	15CL0007	354	357	3	<0.5	0.003	0.0028	0.0204	0.0025	0.008	<0.005	0.04
40211114	15CL0007	357	360	3	<0.5	0.002	0.0026	0.0196	0.0022	0.008	<0.005	0.05
40211115	15CL0007	360	363	3	<0.5	0.001	0.0024	0.0184	0.002	0.008	<0.005	0.03
40211116	15CL0007	363	366	3	<0.5	0.001	0.0027	0.0198	0.0022	0.006	<0.005	0.04
40211117	15CL0007	366	369	3	<0.5	0.002	0.0025	0.0195	0.0021	0.008	<0.005	0.03
40211118	15CL0007	369	372	3	<0.5	0.002	0.0026	0.0201	0.0021	0.006	<0.005	0.04
40211119	15CL0007	372	375	3	<0.5	0.002	0.0026	0.0193	0.0021	0.007	<0.005	0.04
40211121	15CL0007	375	378	3	<0.5	0.002	0.0026	0.0196	0.0026	0.007	<0.005	0.04
40211122	15CL0007	378	380	2	<0.5	0.002	0.0029	0.0208	0.0024	0.006	<0.005	0.05

40211123	15CL0007	380	384	4	<0.5	0.003	0.0038	0.0355	0.0016	0.003	0.005	0.06
40211124	15CL0007	384	387	3	<0.5	0.001	0.0035	0.0329	0.0006	<0.001	<0.005	0.06
40211125	15CL0007	387	390	3	<0.5	<0.001	0.0035	0.035	0.0007	<0.001	<0.005	0.08
40211126	15CL0007	390	393	3	<0.5	0.002	0.0039	0.0396	0.0013	<0.001	<0.005	0.07
40211127	15CL0007	393	396	3	<0.5	0.003	0.0041	0.0403	0.0015	<0.001	0.005	0.06
40211128	15CL0007	396	399.64	3.64	<0.5	0.011	0.0044	0.0477	0.0029	0.008	0.01	0.07
40211129	15CL0007	399.64	402	2.36	<0.5	0.003	0.0038	0.0252	0.0037	0.007	<0.005	0.05
40211131	15CL0007	402	405	3	<0.5	0.002	0.0038	0.0261	0.0036	0.007	<0.005	0.04
40211132	15CL0007	405	408	3	<0.5	0.005	0.0041	0.0271	0.0036	0.008	<0.005	0.05
40211133	15CL0007	408	411	3	<0.5	0.004	0.0041	0.0266	0.0041	0.008	<0.005	0.05
40211134	15CL0007	411	414	3	<0.5	0.003	0.0043	0.0278	0.0044	0.009	<0.005	0.05
40211135	15CL0007	414	417	3	<0.5	0.003	0.0041	0.0271	0.0043	0.009	<0.005	0.05
40211136	15CL0007	417	420	3	<0.5	0.003	0.004	0.0277	0.0041	0.009	<0.005	0.05
40211137	15CL0007	420	423	3	<0.5	0.003	0.0038	0.0251	0.0041	0.01	<0.005	0.05
40211138	15CL0007	423	426	3	<0.5	0.006	0.0042	0.0279	0.0051	0.018	0.005	0.04
40211139	15CL0007	426	429	3	<0.5	0.003	0.0048	0.0274	0.0066	0.015	0.005	0.05
40211141	15CL0007	429	431.26	2.26	<0.5	0.005	0.0053	0.0346	0.0075	0.02	0.006	0.05
40211142	15CL0007	431.26	435	3.74	<0.5	0.001	0.0023	0.007	0.0089	0.002	<0.005	1.09
40211143	15CL0007	435	441	6	<0.5	0.002	0.0022	0.0069	0.0084	0.001	<0.005	1.17
40211144	15CL0007	441	447	6	<0.5	0.005	0.0023	0.0061	0.0083	0.001	<0.005	1.04
40211145	15CL0007	447	453	6	<0.5	0.001	0.0022	0.0058	0.0086	0.002	<0.005	0.77
40211146	15CL0007	453	459	6	<0.5	0.002	0.0025	0.0102	0.0103	0.002	<0.005	2.15
40211147	15CL0007	459	465	6	<0.5	0.001	0.0024	0.005	0.0081	0.001	<0.005	0.54
40211148	15CL0007	465	471	6	<0.5	0.002	0.0023	0.007	0.0084	0.002	<0.005	1.6
40211149	15CL0007	471	477	6	<0.5	0.001	0.0019	0.0051	0.0074	0.001	<0.005	0.82
40211151	15CL0007	477	483	6	<0.5	0.003	0.0025	0.0078	0.0092	0.001	<0.005	1.68
40211152	15CL0007	483	489	6	<0.5	0.001	0.0021	0.0063	0.0088	<0.001	<0.005	0.95
40211153	15CL0007	489	495	6	<0.5	0.002	0.0023	0.0075	0.0087	0.001	<0.005	1.36
40211154	15CL0007	495	501	6	<0.5	0.001	0.0022	0.0062	0.0086	0.001	<0.005	1.1
40211155	15CL0007	501	507	6	<0.5	0.001	0.0021	0.0058	0.0084	0.001	<0.005	0.94
40211156	15CL0007	507	513	6	<0.5	0.001	0.0022	0.0064	0.0085	0.001	<0.005	1.08
40211157	15CL0007	513	519	6	<0.5	0.002	0.0024	0.006	0.0088	0.001	<0.005	1.18
40211158	15CL0007	519	525	6	<0.5	0.001	0.0025	0.0079	0.0098	0.002	<0.005	1.25
40211159	15CL0007	525	529.63	4.63	<0.5	0.001	0.0023	0.0074	0.0087	0.001	<0.005	1.15
40211161	15CL0007	529.63	530.22	0.59	<0.5	0.001	0.0056	0.0199	0.0123	0.004	0.006	0.7
40211162	15CL0007	530.22	536.85	6.63	<0.5	0.001	0.0024	0.0076	0.0089	0.001	<0.005	1.22
40211163	15CL0007	536.85	537.26	0.41	<0.5	<0.001	0.001	0.0019	0.0041	<0.001	<0.005	0.33
40211193	15CL0007	537.26	543	5.74	<0.5	0.002	0.0028	0.0098	0.0101	0.001	<0.005	1.9
40211164	15CL0007	543	549.15	6.15	<0.5	0.001	0.0023	0.0088	0.0093	0.001	<0.005	0.54
40211165	15CL0007	549.15	552	2.85	<0.5	0.003	0.005	0.0271	0.0079	0.009	<0.005	0.19
40211166	15CL0007	552	553.38	1.38	<0.5	0.003	0.0051	0.028	0.008	0.009	<0.005	0.08
40211167	15CL0007	553.38	555	1.62	<0.5	0.001	0.0054	0.0195	0.0121	0.004	0.005	0.1
40211168	15CL0007	555	558.71	3.71	<0.5	0.002	0.0054	0.0202	0.0126	0.004	0.006	0.09
40211169	15CL0007	558.71	562.3	3.59	<0.5	0.003	0.0056	0.0286	0.0086	0.009	<0.005	0.05
40211171	15CL0007	562.3	564.74	2.44	<0.5	0.002	0.0053	0.0194	0.0117	0.005	0.006	0.06
40211172	15CL0007	564.74	567	2.26	<0.5	0.002	0.0054	0.0247	0.0097	0.009	<0.005	0.03
40211173	15CL0007	567	570	3	<0.5	0.003	0.005	0.0281	0.0079	0.009	<0.005	0.03
40211174	15CL0007	570	573	3	<0.5	0.003	0.005	0.0273	0.0075	0.009	<0.005	0.04
40211175	15CL0007	573	576	3	<0.5	0.003	0.0055	0.0291	0.008	0.01	<0.005	0.06
40211176	15CL0007	576	579	3	<0.5	0.003	0.0059	0.0271	0.01	0.01	<0.005	0.05
40211177	15CL0007	579	581.39	2.39	<0.5	0.002	0.0053	0.0271	0.0084	0.01	<0.005	0.07
40211178	15CL0007	581.39	585	3.61	<0.5	0.001	0.0025	0.0102	0.0093	0.001	<0.005	1.26
40211179	15CL0007	585	591	6	<0.5	0.001	0.0026	0.0087	0.0093	0.002	<0.005	1.01
40211181	15CL0007	591	593.82	2.82	<0.5	0.001	0.0024	0.0077	0.0091	0.001	<0.005	0.67
40211182	15CL0007	593.82	596.85	3.03	<0.5	0.001	0.0055	0.0194	0.0117	0.004	0.005	0.22
40211183	15CL0007	596.85	603	6.15	<0.5	0.002	0.0025	0.0073	0.0092	0.001	<0.005	1.28
40211184	15CL0007	603	609	6	<0.5	0.001	0.0025	0.007	0.0095	0.001	<0.005	1.52
40211185	15CL0007	609	610.84	1.84	<0.5	0.001	0.0024	0.006	0.0088	0.001	<0.005	0.85
40211186	15CL0007	610.84	613.96	3.12	<0.5	0.004	0.0053	0.0267	0.0077	0.01	<0.005	0.13

40211187	15CL0007	613.96	618	4.04	<0.5	0.001	0.0026	0.0082	0.009	0.002	<0.005	0.95
40211188	15CL0007	618	624	6	<0.5	0.001	0.0022	0.0076	0.009	0.001	<0.005	0.84
40211189	15CL0007	624	630	6	<0.5	0.001	0.0021	0.0066	0.0089	0.001	<0.005	0.4
40211191	15CL0007	630	636	6	<0.5	0.001	0.002	0.0054	0.0081	0.001	<0.005	0.24
40211192	15CL0007	636	642	6	<0.5	0.001	0.002	0.0057	0.0086	0.001	<0.005	0.41
40211194	15CL0007	642.42	645.5	3.08	<0.5	0.002	0.0056	0.0176	0.0163	0.007	0.007	0.14
40211195	15CL0007	645.5	648.38	2.88	<0.5	0.002	0.0057	0.0185	0.0166	0.008	0.007	0.21
40211196	15CL0007	648.38	651	2.62	<0.5	0.002	0.0046	0.0139	0.0149	0.005	0.006	0.16
40211197	15CL0007	651	653.66	2.66	<0.5	0.002	0.0054	0.0173	0.0165	0.007	0.007	0.16
40211198	15CL0007	653.66	657	3.34	<0.5	0.001	0.0023	0.0065	0.0095	0.001	<0.005	0.42
40211199	15CL0007	657	663	6	<0.5	<0.001	0.0029	0.0117	0.0115	0.002	<0.005	2.75
40211201	15CL0007	663	669	6	0.5	0.002	0.0031	0.0154	0.0156	0.004	<0.005	4.65
40211202	15CL0007	669	675	6	0.8	0.002	0.0028	0.0142	0.0174	0.003	<0.005	3.88
40211203	15CL0007	675	681	6	<0.5	0.002	0.0029	0.012	0.0143	0.002	<0.005	4.18
40211204	15CL0007	681	687	6	<0.5	0.002	0.003	0.0113	0.0146	0.003	<0.005	4.03
40211205	15CL0007	687	693	6	<0.5	0.002	0.0027	0.0118	0.0136	0.003	<0.005	3.7
40211206	15CL0007	693	699	6	<0.5	0.001	0.0028	0.0144	0.0142	0.003	<0.005	4.7
40211207	15CL0007	699	705	6	0.8	0.003	0.0026	0.0198	0.0173	0.005	<0.005	3.91
40211208	15CL0007	705	711	6	0.7	0.001	0.0026	0.0213	0.0174	0.003	<0.005	4.79
40211209	15CL0007	711	714.7	3.7	<0.5	0.003	0.0021	0.0164	0.0158	0.003	<0.005	4.23
40211211	15CL0007	714.7	714.95	0.25	<0.5	0.003	0.0049	0.0162	0.0103	0.016	0.006	0.2
40211212	15CL0007	714.95	717	2.05	0.5	0.003	0.0015	0.0152	0.0131	0.002	<0.005	3.25
40211213	15CL0007	717	723	6	1	0.003	0.0018	0.0189	0.015	0.003	<0.005	2.91
40211214	15CL0007	723	729	6	1.1	0.003	0.0012	0.0155	0.0126	0.004	<0.005	1.69
40211215	15CL0007	729	735	6	0.9	0.006	0.001	0.0105	0.0077	0.002	<0.005	1.34
40211216	15CL0007	735	741	6	2	0.009	0.0009	0.0208	0.0059	0.004	<0.005	0.75
40211217	15CL0007	741	747	6	1.4	0.009	0.0014	0.0174	0.0085	0.005	<0.005	0.95
40211218	15CL0007	747	753	6	0.6	0.004	0.0014	0.0117	0.0084	0.004	<0.005	1.41
40211219	15CL0007	753	759	6	<0.5	0.003	0.0016	0.0082	0.0085	0.003	<0.005	0.67
40211221	15CL0007	759	765	6	<0.5	0.002	0.0016	0.0087	0.0091	0.003	<0.005	0.66
40211222	15CL0007	765	771	6	<0.5	0.002	0.0016	0.009	0.0085	0.003	<0.005	0.76
40211223	15CL0007	771	777	6	<0.5	0.002	0.0017	0.0112	0.0087	0.003	<0.005	0.39
40211224	15CL0007	777	780.54	3.54	<0.5	0.005	0.0018	0.0129	0.0096	0.004	<0.005	0.82
40211225	15CL0007	780.54	783.22	2.68	<0.5	0.004	0.0046	0.0243	0.0074	0.01	<0.005	0.08
40211226	15CL0007	783.22	789	5.78	0.5	0.004	0.0014	0.0132	0.0083	0.005	<0.005	0.73
40211227	15CL0007	789	795	6	0.5	0.008	0.0011	0.0238	0.0048	0.007	<0.005	0.55
40211228	15CL0007	795	798.82	3.82	<0.5	0.002	0.0007	0.0056	0.0018	0.002	<0.005	0.17
40211229	15CL0007	798.82	801.64	2.82	<0.5	0.003	0.0049	0.0257	0.0074	0.01	<0.005	0.19
40211231	15CL0007	801.64	805.85	4.21	<0.5	0.003	0.0006	0.0062	0.0029	0.002	<0.005	0.75
40211232	15CL0007	805.85	807.31	1.46	<0.5	<0.001	0.0017	0.0027	0.0094	0.002	<0.005	0.29
40211378	15CL0007	807.31	810	2.69	<0.5	<0.001	0.0002	0.0002	0.0003	<0.001	<0.005	0.24
40211233	15CL0007	810	816	6	<0.5	<0.001	0.0004	0.0003	0.0003	<0.001	<0.005	0.33
40211235	15CL0008	12.25	18	5.75	<0.5	0.002	0.0023	0.0071	0.0081	<0.001	<0.005	0.19
40211236	15CL0008	18	24	6	<0.5	0.001	0.0021	0.002	0.0069	<0.001	<0.005	<0.01
40211237	15CL0008	24	30	6	<0.5	0.003	0.0019	0.0044	0.0061	<0.001	<0.005	0.03
40211238	15CL0008	30	36	6	<0.5	0.001	0.0018	0.0026	0.006	<0.001	<0.005	0.02
40211239	15CL0008	36	42	6	<0.5	0.002	0.0018	0.0056	0.0066	0.001	<0.005	0.2
40211241	15CL0008	42	48	6	<0.5	<0.001	0.0017	0.002	0.0056	<0.001	<0.005	0.02
40211242	15CL0008	48	54	6	<0.5	<0.001	0.0019	0.0023	0.0064	<0.001	<0.005	0.02
40211243	15CL0008	54	59.44	5.44	<0.5	0.001	0.002	0.0062	0.0074	0.001	<0.005	0.08
40211244	15CL0008	59.44	61	1.56	<0.5	0.003	0.0044	0.0228	0.0077	0.008	<0.005	0.05
40211245	15CL0008	61	63	2	<0.5	0.004	0.0043	0.0294	0.0038	0.01	<0.005	0.05
40211246	15CL0008	63	66	3	<0.5	0.004	0.0045	0.0272	0.0052	0.009	<0.005	0.05
40211247	15CL0008	66	69	3	<0.5	0.003	0.0056	0.022	0.0137	0.011	<0.005	0.1
40211248	15CL0008	69	72	3	<0.5	0.002	0.0062	0.0181	0.0126	0.006	<0.005	0.02
40211249	15CL0008	72	75	3	<0.5	0.003	0.0059	0.0206	0.0129	0.009	<0.005	0.03
40211251	15CL0008	75	78	3	<0.5	0.003	0.0056	0.0237	0.0119	0.009	<0.005	0.03
40211252	15CL0008	78	81	3	<0.5	0.003	0.0051	0.0255	0.0097	0.009	<0.005	0.02
40211253	15CL0008	81	84	3	<0.5	0.003	0.005	0.0245	0.0095	0.009	<0.005	0.04

40211254	15CL0008	84	87	3	<0.5	0.003	0.0051	0.0265	0.0094	0.009	<0.005	0.04
40211255	15CL0008	87	90	3	<0.5	0.003	0.0051	0.0282	0.0084	0.009	<0.005	0.04
40211256	15CL0008	90	91.85	1.85	<0.5	0.004	0.0049	0.0285	0.0071	0.01	<0.005	0.06
40211257	15CL0008	91.85	96	4.15	<0.5	0.001	0.0021	0.0042	0.0073	<0.001	<0.005	0.02
40211258	15CL0008	96	102	6	<0.5	0.001	0.0018	0.0063	0.006	<0.001	<0.005	0.17
40211259	15CL0008	102	108	6	<0.5	0.002	0.0022	0.0049	0.0073	<0.001	<0.005	0.07
40211261	15CL0008	108	114	6	<0.5	0.002	0.0018	0.0029	0.0063	<0.001	<0.005	0.01
40211262	15CL0008	114	118.8	4.8	<0.5	0.001	0.002	0.0032	0.0066	<0.001	<0.005	0.03
40211263	15CL0008	118.8	120	1.2	<0.5	0.002	0.0048	0.0222	0.0133	0.009	0.009	0.13
40211264	15CL0008	120	123	3	<0.5	0.003	0.0048	0.0226	0.0142	0.009	0.009	0.06
40211265	15CL0008	123	124.48	1.48	<0.5	0.003	0.0048	0.0234	0.0141	0.009	0.009	0.21
40211266	15CL0008	124.48	129	4.52	<0.5	<0.001	0.0015	0.0024	0.0056	<0.001	<0.005	<0.01
40211267	15CL0008	129	135	6	<0.5	0.001	0.002	0.0052	0.0073	<0.001	<0.005	0.08
40211268	15CL0008	135	141	6	<0.5	0.002	0.0019	0.0082	0.007	<0.001	<0.005	0.21
40211269	15CL0008	141	147	6	<0.5	0.001	0.0019	0.0067	0.0064	<0.001	<0.005	0.13
40211271	15CL0008	147	153	6	<0.5	0.002	0.002	0.0077	0.0075	0.001	<0.005	0.22
40211272	15CL0008	153	154.07	1.07	<0.5	0.001	0.0019	0.0039	0.0071	<0.001	<0.005	0.05
40211273	15CL0008	154.07	154.63	0.56	<0.5	<0.001	0.0047	0.0256	0.0062	0.008	<0.005	0.17
40211274	15CL0008	154.63	159	4.37	<0.5	0.002	0.0019	0.0042	0.0066	<0.001	<0.005	0.1
40211275	15CL0008	159	165	6	<0.5	0.003	0.002	0.012	0.0074	0.001	<0.005	0.41
40211276	15CL0008	165	171	6	<0.5	0.002	0.0021	0.0089	0.0073	0.001	<0.005	0.27
40211277	15CL0008	171	177	6	<0.5	0.001	0.0017	0.005	0.0056	<0.001	<0.005	0.25
40211278	15CL0008	177	183	6	<0.5	0.001	0.0021	0.0051	0.0072	<0.001	<0.005	0.12
40211279	15CL0008	183	189	6	<0.5	0.001	0.0018	0.0052	0.0065	<0.001	<0.005	0.06
40211281	15CL0008	189	195	6	<0.5	0.001	0.0018	0.0039	0.0058	<0.001	<0.005	0.06
40211282	15CL0008	195	201	6	<0.5	<0.001	0.0017	0.0034	0.0056	<0.001	<0.005	0.03
40211283	15CL0008	201	207	6	<0.5	0.001	0.002	0.0075	0.0069	0.002	<0.005	0.2
40211284	15CL0008	207	213	6	<0.5	0.002	0.0018	0.0041	0.0058	0.004	0.005	0.25
40211285	15CL0008	213	219	6	<0.5	0.001	0.002	0.0093	0.0078	0.002	<0.005	0.3
40211286	15CL0008	219	225	6	<0.5	<0.001	0.0016	0.0043	0.0059	0.001	<0.005	0.03
40211287	15CL0008	225	231	6	<0.5	<0.001	0.0018	0.0071	0.0067	0.002	<0.005	0.25
40211288	15CL0008	231	237	6	<0.5	<0.001	0.0018	0.0039	0.0061	0.001	<0.005	0.09
40211289	15CL0008	237	243	6	<0.5	<0.001	0.0022	0.0096	0.0075	0.002	<0.005	0.7
40211291	15CL0008	243	249	6	<0.5	<0.001	0.0015	0.0025	0.0048	0.001	<0.005	0.03
40211292	15CL0008	249	255	6	<0.5	<0.001	0.0016	0.005	0.0057	0.001	<0.005	0.2
40211293	15CL0008	255	258.1	3.1	<0.5	<0.001	0.0023	0.0125	0.009	0.003	<0.005	0.16
40211294	15CL0008	258.1	261	2.9	<0.5	<0.001	0.0043	0.0153	0.0162	0.004	<0.005	0.08
40211295	15CL0008	261	264	3	<0.5	<0.001	0.0029	0.0103	0.0057	0.003	<0.005	0.13
40211296	15CL0008	264	267	3	<0.5	0.003	0.0045	0.0258	0.011	0.007	<0.005	0.28
40211297	15CL0008	267	268.5	1.5	<0.5	0.001	0.0054	0.0133	0.0186	0.005	0.006	0.11
40211298	15CL0008	268.5	270	1.5	<0.5	<0.001	0.0052	0.0109	0.0245	0.003	<0.005	0.1
40211299	15CL0008	270	271.5	1.5	<0.5	0.001	0.006	0.0179	0.0335	0.005	<0.005	0.1
40211301	15CL0008	271.5	273	1.5	<0.5	0.002	0.0066	0.043	0.043	0.01	0.006	0.2
40211302	15CL0008	273	274.5	1.5	<0.5	0.002	0.0062	0.0274	0.0352	0.007	<0.005	0.11
40211303	15CL0008	274.5	276	1.5	<0.5	0.001	0.0059	0.015	0.0269	0.004	0.006	0.07
40211304	15CL0008	276	279	3	<0.5	0.001	0.0054	0.0156	0.0195	0.004	0.005	0.14
40211305	15CL0008	279	282	3	<0.5	0.001	0.0052	0.0167	0.0169	0.004	0.005	0.12
40211306	15CL0008	282	285	3	<0.5	0.002	0.0055	0.0166	0.0169	0.004	0.005	0.1
40211307	15CL0008	285	288	3	<0.5	0.001	0.0054	0.0164	0.0189	0.004	0.005	0.07
40211308	15CL0008	288	291	3	<0.5	0.001	0.0056	0.0165	0.019	0.004	0.005	0.09
40211309	15CL0008	291	294	3	<0.5	0.001	0.0055	0.0168	0.0192	0.003	0.005	0.06
40211311	15CL0008	294	297	3	<0.5	0.002	0.0057	0.0152	0.0198	0.003	0.005	0.06
40211312	15CL0008	297	300	3	<0.5	0.001	0.0058	0.0174	0.0192	0.004	0.005	0.21
40211313	15CL0008	300	303	3	<0.5	0.001	0.0057	0.0168	0.0195	0.004	0.005	0.12
40211314	15CL0008	303	306	3	<0.5	0.001	0.0056	0.0171	0.0183	0.004	0.005	0.06
40211315	15CL0008	306	309	3	<0.5	0.001	0.0055	0.0166	0.0183	0.004	0.005	0.15
40211316	15CL0008	309	312	3	<0.5	0.002	0.0056	0.0161	0.0191	0.004	0.005	0.07
40211317	15CL0008	312	315	3	<0.5	0.001	0.0055	0.0167	0.0182	0.004	0.005	0.07
40211318	15CL0008	315	318	3	<0.5	0.002	0.0057	0.0164	0.0191	0.004	0.005	0.06

40211319	15CL0008	318	321	3	<0.5	0.002	0.0058	0.0167	0.02	0.004	0.005	0.07
40211321	15CL0008	321	322.5	1.5	<0.5	0.002	0.0062	0.0275	0.028	0.006	0.006	0.13
40211322	15CL0008	322.5	323.6	1.1	<0.5	0.002	0.0064	0.0302	0.0304	0.007	0.006	0.26
40211323	15CL0008	323.6	324.07	0.47	<0.5	<0.001	0.0005	0.0027	0.001	<0.001	<0.005	0.02
40211324	15CL0008	324.07	325.5	1.43	<0.5	0.001	0.0053	0.0135	0.019	0.004	0.005	0.07
40211325	15CL0008	325.5	327	1.5	<0.5	0.002	0.0054	0.0178	0.0199	0.004	0.005	0.09
40211326	15CL0008	327	328.5	1.5	<0.5	0.001	0.0056	0.0165	0.0195	0.004	0.006	0.02
40211327	15CL0008	328.5	330	1.5	<0.5	0.001	0.0048	0.0065	0.0192	0.004	0.006	0.08
40211328	15CL0008	330	331.5	1.5	<0.5	0.002	0.0045	0.0112	0.0198	0.005	0.005	0.22
40211329	15CL0008	331.5	333	1.5	<0.5	0.004	0.0054	0.0126	0.0249	0.006	0.006	0.92
40211331	15CL0008	333	334.5	1.5	<0.5	0.011	0.0101	0.0712	0.064	0.02	0.015	1.39
40211332	15CL0008	334.5	336	1.5	<0.5	0.003	0.0052	0.0223	0.0268	0.008	0.006	0.33
40211333	15CL0008	336	337.5	1.5	<0.5	0.001	0.0047	0.0072	0.0205	0.002	<0.005	0.09
40211334	15CL0008	337.5	339	1.5	<0.5	<0.001	0.0054	0.0043	0.0218	0.002	<0.005	0.08
40211335	15CL0008	339	340.5	1.5	<0.5	0.004	0.0074	0.0306	0.0394	0.014	0.006	0.78
40211336	15CL0008	340.5	342	1.5	<0.5	0.004	0.0078	0.0349	0.041	0.014	0.006	1.18
40211337	15CL0008	342	343.5	1.5	<0.5	0.002	0.0066	0.0195	0.027	0.007	<0.005	0.51
40211338	15CL0008	343.5	345	1.5	<0.5	0.006	0.0076	0.0898	0.079	0.043	0.012	0.66
40211339	15CL0008	345	346.5	1.5	0.5	0.008	0.0103	0.123	0.0953	0.054	0.012	1.16
40211341	15CL0008	346.5	347.5	1	<0.5	<0.001	0.0041	0.0108	0.007	0.003	<0.005	0.18
40211342	15CL0008	347.5	348.01	0.51	<0.5	<0.001	0.0003	0.0022	0.0012	<0.001	<0.005	0.02
40211343	15CL0008	348.01	349.5	1.49	<0.5	0.007	0.0096	0.106	0.0831	0.032	0.018	0.93
40211344	15CL0008	349.5	351	1.5	<0.5	0.008	0.0087	0.0979	0.0933	0.035	0.013	0.77
40211345	15CL0008	351	352.5	1.5	<0.5	<0.001	0.0054	0.0113	0.0235	0.003	<0.005	0.08
40211346	15CL0008	352.5	354	1.5	<0.5	0.002	0.0062	0.0386	0.047	0.014	0.009	0.2
40211347	15CL0008	354	355.5	1.5	<0.5	0.005	0.0051	0.0308	0.023	0.052	<0.005	0.06
40211348	15CL0008	355.5	357	1.5	<0.5	<0.001	0.0049	0.0091	0.0172	0.002	<0.005	0.03
40211349	15CL0008	357	358.5	1.5	<0.5	0.008	0.0064	0.097	0.0556	0.054	0.012	0.36
40211351	15CL0008	358.5	360	1.5	<0.5	0.01	0.0057	0.1085	0.0558	0.061	0.016	0.26
40211352	15CL0008	360	361.5	1.5	<0.5	<0.001	0.0052	0.0105	0.0181	0.003	0.005	0.03
40211353	15CL0008	361.5	363	1.5	<0.5	0.001	0.0049	0.0105	0.017	0.003	<0.005	0.03
40211354	15CL0008	363	364.5	1.5	<0.5	<0.001	0.0049	0.0099	0.0175	0.002	<0.005	0.05
40211355	15CL0008	364.5	366	1.5	<0.5	<0.001	0.0047	0.0087	0.0152	0.002	<0.005	0.07
40211356	15CL0008	366	367.5	1.5	<0.5	<0.001	0.0038	0.0054	0.0088	0.001	<0.005	0.02
40211357	15CL0008	367.5	369	1.5	<0.5	0.001	0.0047	0.0117	0.0135	0.007	<0.005	0.03
40211358	15CL0008	369	370.5	1.5	<0.5	0.001	0.005	0.0161	0.0194	0.006	0.005	0.04
40211359	15CL0008	370.5	372	1.5	<0.5	<0.001	0.0052	0.0114	0.0181	0.004	<0.005	0.05
40211361	15CL0008	372	375	3	<0.5	0.001	0.0054	0.0123	0.0182	0.003	<0.005	0.03
40211362	15CL0008	375	378	3	<0.5	<0.001	0.0051	0.0116	0.0176	0.002	<0.005	0.03
40211363	15CL0008	378	381	3	<0.5	<0.001	0.0054	0.0114	0.0184	0.002	<0.005	0.02
40211364	15CL0008	381	384	3	<0.5	0.001	0.0052	0.0113	0.0181	0.002	<0.005	0.03
40211365	15CL0008	384	387	3	<0.5	0.001	0.005	0.0114	0.0181	0.003	<0.005	0.02
40211366	15CL0008	387	390	3	<0.5	0.001	0.0051	0.0111	0.0181	0.003	<0.005	0.03
40211367	15CL0008	390	393	3	<0.5	0.001	0.0052	0.0114	0.0187	0.003	<0.005	0.02
40211368	15CL0008	393	396	3	<0.5	0.001	0.0053	0.0114	0.0189	0.003	<0.005	0.02
40211369	15CL0008	396	399	3	<0.5	0.001	0.0051	0.0109	0.0186	0.004	<0.005	0.03
40211371	15CL0008	399	402	3	<0.5	0.001	0.0054	0.0112	0.0197	0.004	<0.005	0.04
40211372	15CL0008	402	405	3	<0.5	0.001	0.0054	0.011	0.0192	0.003	<0.005	0.02
40211373	15CL0008	405	408	3	<0.5	0.001	0.0054	0.0106	0.0193	0.003	<0.005	0.02
40211374	15CL0008	408	411	3	<0.5	0.001	0.0054	0.0105	0.0193	0.003	<0.005	0.02
40211375	15CL0008	411	414	3	<0.5	0.001	0.0054	0.0101	0.0188	0.003	<0.005	0.01
40211376	15CL0008	414	417	3	<0.5	0.001	0.0053	0.0097	0.0186	0.003	<0.005	0.02
40211377	15CL0008	417	420	3	<0.5	0.001	0.0052	0.0099	0.0181	0.003	<0.005	0.02

Appendix E – Assay Certificates



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Account: KAV

CERTIFICATE TB15140688

Project: EB80002685
 P.O. No.: 3101202290
 This report is for 38 Drill Core samples submitted to our lab in Thunder Bay, ON,
 Canada on 15-SEP-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

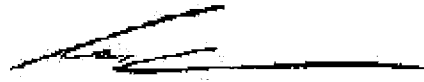
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

To: RIO TINTO EXPLORATION CANADA INC.
 ATTN: BRIAN GOLDNER
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: EB80002685

CERTIFICATE OF ANALYSIS TB15140688

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40097085		1.24	82.4	86.5	46.6	18.80	10.35	10.10	2.36	9.15	0.36	0.02	1.10	0.13	0.12	0.04
40211199		12.73			54.3	17.10	10.45	0.45	1.40	3.10	3.67	0.03	0.78	0.03	0.11	0.01
40211200		0.17			44.9	18.25	11.95	9.29	2.14	7.43	1.06	0.34	1.32	0.14	0.15	0.05
40211201		12.04			52.1	16.10	11.10	0.69	1.34	2.90	3.61	0.02	0.70	0.03	0.11	0.01
40211202		10.97			54.7	16.60	10.50	0.56	1.34	2.98	3.70	0.02	0.73	0.03	0.10	0.01
40211203		12.83			52.5	16.70	11.20	0.64	1.27	3.01	3.73	0.02	0.73	0.03	0.10	0.01
40211204		10.00			53.6	16.55	10.95	0.55	1.30	3.00	3.64	0.02	0.73	0.03	0.10	0.01
40211205		12.00			55.1	16.80	9.04	0.62	1.28	3.02	3.57	0.02	0.70	0.03	0.10	0.01
40211206		12.11			54.7	16.10	8.40	1.19	1.34	2.94	3.39	0.02	0.67	0.03	0.10	0.01
40211207		12.50			51.9	15.25	9.97	1.22	1.43	2.86	3.32	0.02	0.64	0.03	0.11	0.01
40211208		10.36			56.3	14.95	6.90	1.02	1.45	2.72	3.11	0.02	0.61	0.03	0.11	0.01
40211209		2.65			58.4	14.65	8.11	1.26	1.40	2.70	3.02	0.02	0.56	0.03	0.09	0.01
40211210		3.09			57.7	14.60	6.77	1.23	1.41	2.69	3.03	0.01	0.56	0.03	0.10	0.01
40211211		1.24			51.4	14.20	12.30	9.12	2.13	5.64	0.56	0.02	1.09	0.16	0.11	0.04
40211212		3.29			63.7	13.25	6.48	1.56	1.32	2.33	2.74	0.01	0.48	0.03	0.09	0.01
40211213		11.11			60.8	13.60	6.04	1.72	1.66	2.47	2.63	0.01	0.54	0.04	0.10	0.01
40211214		10.64			65.5	13.00	4.81	1.78	1.84	2.19	2.40	0.01	0.48	0.03	0.11	0.01
40211215		10.22			62.3	12.45	5.06	3.63	1.69	2.62	2.35	0.01	0.51	0.07	0.16	0.01
40211216		10.28			65.5	12.70	4.19	3.15	1.39	2.66	2.97	0.01	0.49	0.05	0.15	0.02
40211217		10.97			63.1	13.85	5.32	3.28	1.82	2.93	3.26	0.02	0.63	0.04	0.18	0.02
40211217 CRD		<0.02			62.3	13.65	5.29	3.29	1.80	2.92	3.21	0.02	0.62	0.04	0.18	0.02
40211218		11.77			55.8	12.60	5.31	7.17	1.63	2.50	3.25	0.02	0.58	0.05	0.15	0.02
40211219		11.42			64.4	15.70	5.07	0.85	1.95	2.26	4.40	0.02	0.74	0.03	0.16	0.01
40211220		1.27			46.1	17.80	10.45	9.42	2.14	9.87	0.30	0.03	0.97	0.13	0.10	0.03
40211221		11.78			62.1	15.60	5.44	1.00	1.85	2.29	4.41	0.02	0.73	0.03	0.15	0.02
40211222		12.16			56.7	14.50	5.36	5.49	1.74	2.14	4.05	0.02	0.69	0.06	0.15	0.02
40211223		11.72			58.8	14.85	5.09	3.58	1.78	2.21	4.27	0.02	0.73	0.06	0.16	0.01
40211224		6.92			61.9	15.10	5.58	0.96	1.76	2.28	4.59	0.02	0.75	0.04	0.16	0.02
40211225		6.00			49.3	12.95	16.10	7.25	2.73	3.95	1.09	0.01	3.38	0.18	0.39	0.06
40211226		11.34			65.3	12.95	4.42	3.05	1.30	1.84	4.33	0.03	0.60	0.03	0.15	0.01
40211227		11.20			67.9	13.40	4.03	1.36	0.90	1.90	5.15	0.01	0.51	0.03	0.11	0.01
40211228		7.03			75.4	10.30	3.21	1.82	0.38	1.44	3.84	0.01	0.34	0.03	0.10	0.01
40211229		6.29			47.0	12.60	16.00	7.57	2.60	3.88	1.03	0.01	3.37	0.18	0.38	0.06
40211230		0.17			45.3	18.45	11.70	9.08	2.07	7.29	1.03	0.34	1.28	0.14	0.16	0.05
40211231		7.86			63.5	6.91	3.96	7.22	0.18	3.60	3.00	0.01	0.28	0.22	0.09	0.01
40211232		2.77			45.1	10.35	5.39	10.80	0.20	6.42	3.43	0.02	0.36	0.40	0.45	0.01
40211233		11.17			31.5	0.15	6.97	21.4	0.03	8.29	0.03	<0.01	<0.01	1.56	0.30	0.02
40211378		5.43			19.00	0.55	6.31	26.3	0.04	10.35	0.16	<0.01	0.02	1.64	0.23	0.02



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: EB80002685

CERTIFICATE OF ANALYSIS TB15140688

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
		8aO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40097085		0.01	0.01	0.03	120.0	20.3	150	1.23	3.00	1.67	1.03	19.0	2.94	<5	1.9	0.61
40211199		0.05	1.13	2.75	445	65.8	180	14.45	4.94	2.96	1.33	23.8	5.19	<5	3.9	0.87
40211200		0.04	0.03	0.34	321	26.5	2600	2.30	3.65	2.14	1.14	20.7	3.72	<5	2.8	0.72
40211201		0.05	2.24	4.65	401	63.1	160	14.50	5.17	3.07	1.33	22.9	5.58	<5	3.9	1.00
40211202		0.05	2.11	3.88	403	63.2	160	15.40	5.10	2.91	1.30	23.2	5.32	<5	3.9	1.00
40211203		0.05	1.82	4.18	402	61.2	160	14.90	5.01	2.70	1.35	23.3	5.46	<5	3.7	0.89
40211204		0.05	1.98	4.03	365	56.9	150	13.90	4.37	2.79	1.22	21.2	4.93	<5	3.3	0.84
40211205		0.05	2.30	3.70	414	62.3	160	15.15	4.66	2.92	1.46	22.2	5.38	<5	3.1	1.00
40211206		0.04	2.88	4.70	391	62.4	160	14.60	4.78	3.12	1.49	21.2	5.62	<5	3.2	1.03
40211207		0.04	4.42	3.91	371	65.1	130	14.70	5.24	3.32	1.47	20.9	6.06	<5	3.5	1.08
40211208		0.04	3.61	4.79	356	66.8	120	14.75	4.94	3.38	1.33	20.5	5.95	<5	3.7	1.04
40211209		0.04	3.11	4.23	335	72.2	110	15.00	5.27	3.36	1.22	20.4	6.08	<5	4.4	1.09
40211210		0.04	3.09	4.12	331	68.9	100	14.60	5.08	3.39	1.21	19.7	5.62	<5	4.5	1.00
40211211		0.05	0.70	0.20	417	24.7	110	5.19	3.79	2.15	1.16	18.5	4.07	<5	2.4	0.78
40211212		0.04	2.64	3.25	321	70.5	90	13.10	4.99	3.38	1.17	18.2	5.56	<5	4.7	1.06
40211213		0.03	3.92	2.91	305	71.1	100	13.90	4.90	3.27	1.19	18.3	5.69	<5	4.3	1.01
40211214		0.03	4.06	1.69	284	74.0	70	12.40	4.57	3.09	1.19	16.5	5.46	<5	4.3	1.01
40211215		0.03	3.70	1.34	267	67.6	50	11.15	5.09	3.31	1.37	16.6	5.93	<5	4.3	1.09
40211216		0.05	2.87	0.75	474	73.9	70	12.05	4.32	2.79	1.19	17.0	4.99	<5	4.2	0.84
40211217		0.07	2.38	0.95	649	70.9	130	9.53	5.24	3.33	1.23	18.4	5.95	<5	4.3	1.05
40211217 CRD		0.07	2.38	0.95	642	71.9	120	9.40	4.84	3.09	1.24	18.2	5.81	<5	4.3	1.03
40211218		0.07	3.30	1.41	618	60.3	120	8.61	4.18	2.80	1.12	16.4	4.83	<5	3.9	0.87
40211219		0.08	2.11	0.67	757	70.3	170	10.20	4.32	2.80	1.36	20.1	5.33	<5	4.5	0.88
40211220		0.01	0.02	0.04	114.5	18.0	200	1.41	2.47	1.43	1.06	17.7	2.76	<5	1.8	0.52
40211221		0.08	2.46	0.66	705	69.1	160	10.35	4.09	2.66	1.25	20.1	5.15	<5	4.5	0.86
40211222		0.07	3.16	0.76	605	66.6	160	9.38	4.06	2.70	1.35	18.9	5.36	<5	4.1	0.87
40211223		0.07	3.01	0.39	624	65.3	160	9.92	4.08	2.69	1.29	19.0	4.96	<5	4.3	0.87
40211224		0.08	2.95	0.82	716	68.4	170	10.55	4.38	2.80	1.29	19.9	5.35	<5	4.2	0.88
40211225		0.03	0.49	0.08	288	70.3	40	5.68	7.06	3.82	2.86	23.5	8.65	<5	6.4	1.37
40211226		0.06	2.87	0.73	560	65.5	190	11.20	4.00	2.57	1.14	16.8	4.90	<5	4.0	0.86
40211227		0.06	2.22	0.55	514	92.1	90	14.05	6.70	4.54	1.32	19.5	7.52	<5	6.0	1.40
40211228		0.04	0.59	0.17	384	84.7	50	12.35	8.73	5.82	1.57	16.8	9.23	<5	5.8	1.84
40211229		0.03	1.07	0.19	281	71.2	40	6.57	6.95	3.97	2.79	24.3	9.16	<5	6.3	1.33
40211230		0.04	0.04	0.33	338	27.0	2500	2.40	3.31	2.20	1.33	20.4	3.76	<5	2.5	0.71
40211231		0.03	3.49	0.75	302	42.8	50	7.16	2.62	1.53	0.75	9.5	3.36	<5	2.2	0.52
40211232		0.03	4.00	0.29	241	80.0	120	23.9	7.30	4.26	2.66	14.1	10.45	<5	3.0	1.51
40211233		<0.01	8.06	0.33	19.1	10.1	10	0.10	0.85	0.57	0.21	1.7	0.96	<5	<0.2	0.18
40211378		<0.01	9.40	0.24	33.4	14.7	10	0.37	1.42	0.92	0.39	2.5	1.52	<5	0.2	0.30



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15140688

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40097085		9.3	0.20	5.9	12.2	2.79	9.6	3.14	1	280	0.2	0.49	0.95	0.24	0.22	133
40211199		32.8	0.45	10.6	33.8	8.38	170.5	6.17	2	75.7	0.6	0.77	8.33	0.38	8.17	178
40211200		12.4	0.26	7.7	15.9	3.49	33.0	3.75	2	383	0.3	0.59	1.22	0.29	0.35	189
40211201		32.3	0.45	9.9	32.9	7.98	167.0	6.63	2	84.7	0.5	0.78	8.31	0.42	15.10	213
40211202		32.7	0.53	10.1	33.4	8.22	166.5	6.83	2	78.0	0.6	0.83	8.34	0.43	12.70	244
40211203		31.3	0.41	9.8	31.9	7.94	166.0	6.45	2	79.9	0.5	0.71	8.09	0.41	13.30	216
40211204		29.1	0.39	8.8	29.2	7.33	151.5	6.41	1	69.9	0.4	0.72	7.44	0.37	13.10	204
40211205		31.7	0.46	9.8	29.3	7.91	166.5	5.98	1	83.2	0.5	0.85	8.13	0.41	14.55	220
40211206		31.6	0.51	10.0	29.4	7.99	158.0	6.36	1	100.5	0.5	0.86	8.11	0.47	17.00	231
40211207		33.9	0.58	10.4	31.5	8.37	151.5	6.55	1	102.5	0.5	0.87	8.83	0.53	20.8	279
40211208		34.3	0.58	11.0	30.9	8.51	143.5	6.38	1	92.1	0.5	0.88	8.96	0.52	12.30	240
40211209		37.8	0.55	12.8	33.2	8.90	137.5	6.84	2	97.8	0.6	0.91	9.99	0.49	11.85	211
40211210		36.1	0.51	14.5	32.2	8.72	134.0	6.55	2	97.7	0.7	0.88	9.60	0.49	11.65	216
40211211		11.1	0.29	4.9	13.8	3.24	18.2	3.59	1	343	0.2	0.65	2.12	0.31	1.28	310
40211212		37.1	0.55	14.0	31.3	8.55	118.5	6.12	2	97.7	0.7	0.86	10.45	0.50	13.65	194
40211213		37.9	0.55	12.3	32.0	8.87	117.0	6.49	2	106.0	0.6	0.87	9.59	0.49	16.20	246
40211214		40.1	0.56	13.1	32.3	8.85	99.3	6.26	2	105.0	0.6	0.84	10.60	0.49	14.90	257
40211215		35.5	0.55	12.4	29.9	8.21	90.4	5.92	2	124.5	0.6	0.87	8.89	0.49	13.35	200
40211216		39.9	0.44	12.9	30.5	8.76	108.5	6.06	2	113.5	0.6	0.77	10.40	0.40	9.68	189
40211217		36.9	0.47	12.3	32.1	8.55	117.0	6.36	2	150.5	0.7	0.95	11.10	0.47	10.30	210
40211217 CRD		37.7	0.47	12.2	32.2	8.75	115.0	6.08	2	150.5	0.6	0.88	11.35	0.46	10.10	205
40211218		32.0	0.42	10.7	27.5	7.54	109.5	5.38	2	146.5	0.6	0.73	9.27	0.37	8.90	184
40211219		36.5	0.41	12.0	32.4	8.63	138.5	6.44	2	126.0	0.7	0.78	11.05	0.40	10.75	208
40211220		8.3	0.19	5.4	9.9	2.38	8.0	2.47	1	275	0.2	0.44	0.79	0.21	0.20	129
40211221		35.9	0.38	12.3	31.5	8.78	141.0	6.03	2	124.5	0.7	0.73	10.85	0.35	8.80	200
40211222		34.6	0.38	11.1	31.4	8.42	131.0	5.71	2	151.5	0.6	0.72	10.20	0.39	8.23	198
40211223		33.5	0.38	11.4	29.7	8.10	137.0	5.74	2	136.5	0.6	0.75	10.05	0.36	10.00	213
40211224		35.1	0.41	11.9	31.4	8.63	144.5	6.26	2	140.0	0.7	0.79	10.40	0.40	11.75	275
40211225		30.6	0.47	25.6	38.6	9.18	37.6	8.97	2	487	1.4	1.25	4.04	0.49	1.39	429
40211226		33.0	0.38	10.7	29.2	8.01	143.5	5.55	2	108.0	0.5	0.72	8.92	0.39	12.10	221
40211227		44.4	0.68	16.6	40.7	10.90	167.5	8.12	2	73.7	0.9	1.20	12.65	0.64	8.93	139
40211228		37.4	0.84	15.2	38.6	9.84	139.5	8.90	3	80.2	0.7	1.48	7.11	0.81	5.66	82
40211229		30.6	0.44	25.7	38.5	9.33	36.6	9.05	2	534	1.5	1.29	4.06	0.51	1.33	428
40211230		12.2	0.27	7.7	14.6	3.49	33.5	3.48	2	405	0.3	0.60	1.30	0.28	0.36	194
40211231		19.8	0.20	5.3	18.1	4.80	105.0	3.51	1	74.1	0.2	0.46	4.47	0.22	5.81	182
40211232		44.1	0.35	9.5	49.4	12.05	193.5	10.30	1	89.6	0.6	1.35	6.56	0.49	10.10	1030
40211233		4.8	0.06	0.5	3.8	0.98	1.3	0.76	<1	140.5	<0.1	0.12	0.10	0.06	2.36	26
40211378		7.9	0.08	0.6	7.3	1.81	7.7	1.51	<1	192.5	<0.1	0.23	0.48	0.12	3.36	69



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140688

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40097085		<1	14.7	1.51	72	0.6	0.01	<0.005	0.014	0.001	0.05	0.4	0.01	0.03	0.83	99.97
40211199		3	25.6	2.78	136	32.0	0.36	0.411	0.049	0.006	2.23	1.1	0.07	0.75	7.15	98.63
40211200		1	18.6	1.62	103	4.9	0.17	0.009	0.030	0.003	0.40	1.4	0.08	0.51	1.95	99.01
40211201		2	27.9	3.38	130	53.4	0.44	0.941	0.054	0.015	2.89	1.8	0.08	1.18	9.29	98.05
40211202		2	27.9	3.28	131	62.7	0.41	0.948	0.056	0.021	3.94	2.3	0.09	1.17	8.93	100.25
40211203		2	25.9	2.79	124	86.1	0.39	0.835	0.052	0.015	2.47	1.7	0.08	1.18	8.89	98.88
40211204		2	24.2	2.81	113	52.8	0.39	0.902	0.059	0.016	2.74	1.9	0.07	1.18	8.99	99.52
40211205		2	26.5	3.07	123	54.9	0.38	0.778	0.053	0.014	2.47	1.7	0.09	1.11	9.03	99.37
40211206		2	27.4	3.27	125	66.7	0.45	1.040	0.060	0.020	3.05	2.1	0.12	0.98	10.10	99.03
40211207		3	31.1	3.52	135	66.1	0.60	1.040	0.063	0.027	4.52	2.8	0.14	0.57	11.30	98.10
40211208		3	29.8	3.58	147	90.4	0.62	0.805	0.074	0.024	3.57	2.3	0.12	0.72	10.95	98.22
40211209		3	29.6	3.45	179	67.9	0.90	0.733	0.119	0.025	3.93	1.8	0.10	0.95	10.05	100.34
40211210		2	29.0	3.56	170	64.8	0.90	0.803	0.120	0.029	3.86	1.9	0.11	0.98	10.05	98.23
40211211		1	19.5	2.03	89	2.4	0.05	0.052	0.036	0.003	0.15	0.7	0.01	0.61	3.10	99.92
40211212		3	27.5	3.46	182	184.5	0.71	0.584	0.100	0.024	3.94	2.0	0.08	0.93	8.91	100.95
40211213		3	29.2	3.49	165	57.6	0.61	0.588	0.093	0.026	4.15	2.3	0.12	0.58	10.00	99.65
40211214		2	27.7	3.16	172	50.4	0.71	0.582	0.115	0.027	5.23	2.8	0.14	0.42	9.45	101.64
40211215		2	30.2	3.49	170	51.0	0.58	0.708	0.110	0.021	6.36	2.9	0.13	0.40	9.30	100.19
40211216		2	25.5	2.80	171	27.0	0.62	0.660	0.087	0.019	5.25	4.9	0.13	0.38	7.96	101.29
40211217		2	30.1	3.29	169	54.6	0.53	0.640	0.059	0.014	6.77	4.5	0.10	0.40	7.18	101.70
40211217 CRD		2	28.8	3.12	169	50.0	0.51	0.603	0.055	0.015	6.58	4.3	0.09	0.41	7.59	101.00
40211218		2	25.1	2.58	149	28.7	0.36	0.315	0.044	0.013	3.84	2.1	0.06	0.33	9.70	98.85
40211219		2	24.1	2.57	174	12.7	0.35	0.208	0.046	0.011	1.52	1.2	0.03	0.20	5.82	101.49
40211220		<1	13.3	1.34	71	0.3	0.01	0.005	0.015	<0.001	0.06	0.3	0.01	0.04	0.78	98.13
40211221		2	22.7	2.63	171	15.7	0.36	0.226	0.050	0.011	1.28	1.3	0.03	0.18	6.24	99.96
40211222		1	25.2	2.66	158	18.4	0.32	0.201	0.043	0.011	1.43	1.5	0.03	0.17	8.18	99.17
40211223		2	24.5	2.52	165	14.9	0.34	0.201	0.048	0.012	1.73	1.3	0.04	0.16	7.30	98.93
40211224		2	24.9	2.75	167	20.1	0.32	0.188	0.045	0.012	1.90	1.9	0.06	0.16	6.63	99.87
40211225		1	34.5	3.13	247	2.2	0.06	0.033	0.055	0.001	0.27	1.3	<0.01	0.30	2.64	100.06
40211226		2	24.7	2.54	145	21.6	0.32	0.164	0.042	0.012	2.00	1.6	0.07	0.28	6.62	100.69
40211227		2	39.3	4.62	228	18.0	0.43	0.181	0.066	0.010	1.41	1.8	0.09	0.28	5.91	101.28
40211228		1	50.8	5.35	235	12.0	0.25	0.053	0.065	0.004	0.52	1.5	0.04	0.18	3.40	100.32
40211229		1	34.7	3.23	249	2.2	0.06	0.031	0.070	0.001	0.28	1.1	<0.01	0.26	4.45	99.16
40211230		1	18.4	1.87	100	4.5	0.17	0.010	0.032	0.003	0.38	1.1	0.07	0.52	1.95	98.88
40211231		2	15.1	1.43	88	36.2	0.17	0.170	0.027	0.008	1.77	1.8	0.05	0.31	10.30	99.31
40211232		1	57.1	2.68	108	227	0.06	0.161	0.020	0.001	1.09	1.5	0.01	0.33	16.55	99.51
40211233		<1	7.4	0.39	3	59.0	0.01	0.090	<0.005	<0.001	0.55	0.3	0.01	0.16	28.5	98.75
40211378		<1	12.2	0.69	10	41.2	0.01	0.082	<0.005	0.001	0.51	0.6	0.01	0.16	34.3	98.92



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140688

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
40097085		<0.5	<5	<0.5	55	108	10	<1	302	<2	11	10	75	0.002	<0.005	0.006
40211199		<0.5	35	0.7	29	117	80	7	115	25	23	<10	230	<0.001	<0.005	0.002
40211200		<0.5	7	0.6	66	1140	40	<1	728	<2	15	<10	107	0.020	0.035	0.206
40211201		0.5	55	2.3	31	154	80	21	156	38	23	<10	446	0.002	<0.005	0.004
40211202		0.8	61	3.7	28	142	80	19	174	38	22	10	627	0.002	<0.005	0.003
40211203		<0.5	83	1.7	29	120	80	14	143	35	22	10	380	0.002	<0.005	0.002
40211204		<0.5	52	2.0	30	113	80	14	146	34	23	10	457	0.002	<0.005	0.003
40211205		<0.5	60	1.4	27	118	80	15	136	32	22	10	368	0.002	<0.005	0.003
40211206		<0.5	68	2.7	28	144	80	19	142	34	22	10	481	0.001	<0.005	0.003
40211207		0.8	69	3.7	26	198	80	30	173	59	22	10	661	0.003	<0.005	0.005
40211208		0.7	101	2.0	26	213	70	27	174	49	21	10	475	0.001	<0.005	0.003
40211209		<0.5	75	2.5	21	164	70	24	158	42	19	10	468	0.003	<0.005	0.003
40211210		0.5	70	2.7	21	165	70	25	160	39	19	<10	505	0.002	<0.005	0.003
40211211		<0.5	5	<0.5	49	162	30	<1	103	<2	31	<10	93	0.003	0.006	0.016
40211212		0.5	187	2.5	15	152	50	23	131	47	15	10	407	0.003	<0.005	0.002
40211213		1.0	65	3.6	18	189	60	27	150	46	17	10	453	0.003	<0.005	0.003
40211214		1.1	55	4.8	12	155	50	27	126	50	13	10	589	0.003	<0.005	0.004
40211215		0.9	50	5.1	10	105	50	19	77	50	12	10	708	0.006	<0.005	0.002
40211216		2.0	29	8.5	9	208	50	14	59	42	11	<10	800	0.009	<0.005	0.004
40211217		1.4	54	6.6	14	174	60	11	85	35	15	<10	743	0.009	<0.005	0.005
40211217 CRD		1.2	47	7.0	16	182	60	12	88	38	15	10	774	0.008	<0.005	0.005
40211218		0.6	34	3.2	14	117	50	8	84	30	15	<10	381	0.004	<0.005	0.004
40211219		<0.5	16	0.6	16	82	60	7	85	17	18	<10	181	0.003	<0.005	0.003
40211220		<0.5	<5	0.5	61	108	10	<1	364	<2	12	<10	77	0.002	<0.005	0.008
40211221		<0.5	18	0.7	16	87	60	5	91	20	19	10	159	0.002	<0.005	0.003
40211222		<0.5	19	0.7	16	90	60	5	85	19	18	<10	151	0.002	<0.005	0.003
40211223		<0.5	18	1.2	17	112	60	9	87	23	18	10	194	0.002	<0.005	0.003
40211224		<0.5	21	1.5	18	129	60	13	96	27	20	<10	244	0.005	<0.005	0.004
40211225		<0.5	6	0.8	52	259	20	<1	80	2	25	<10	150	0.004	<0.005	0.010
40211226		0.5	23	1.6	15	127	50	13	84	22	16	10	214	0.004	<0.005	0.005
40211227		<0.5	20	<0.5	12	235	60	5	45	25	13	10	136	0.008	<0.005	0.007
40211228		<0.5	15	0.6	8	53	40	<1	16	14	8	<10	136	0.002	<0.005	0.002
40211229		<0.5	<5	1.1	51	253	30	<1	73	<2	25	<10	171	0.003	<0.005	0.010
40211230		<0.5	8	0.6	66	1160	40	<1	733	4	16	<10	107	0.022	0.044	0.209
40211231		0.5	35	3.4	8	65	40	3	31	14	8	10	347	0.003	<0.005	0.002
40211232		<0.5	232	<0.5	18	26	160	<1	95	3	10	<10	93	<0.001	<0.005	0.002
40211233		<0.5	56	<0.5	<1	7	<10	1	5	5	<1	<10	21	<0.001	<0.005	<0.001
40211378		<0.5	39	<0.5	<1	1	10	<1	2	3	1	<10	23	<0.001	<0.005	<0.001



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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CERTIFICATE OF ANALYSIS TB15140688

	CERTIFICATE COMMENTS												
	LABORATORY ADDRESSES												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-04</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>LOG-21d</td> <td>LOG-23</td> <td>PUL-32</td> <td>PUL-32d</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>SPL-21d</td> <td>WEI-21</td> </tr> </table>	BAG-04	CRU-31	CRU-QC	LOG-21	LOG-21d	LOG-23	PUL-32	PUL-32d	PUL-QC	SPL-21	SPL-21d	WEI-21
BAG-04	CRU-31	CRU-QC	LOG-21										
LOG-21d	LOG-23	PUL-32	PUL-32d										
PUL-QC	SPL-21	SPL-21d	WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08	TOT-ICP06			
C-IR07	ME-4ACD81	ME-ICP06	ME-MS42										
ME-MS81	OA-GRA05	PGM-ICP24	S-IR08										
TOT-ICP06													



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **RIO TINTO EXPLORATION CANADA INC.**
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CERTIFICATE TB15097423

Project: EB80002676
 P.O. No.: 3101202290
 This report is for 171 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-JUL-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER
 STEVE HOVIS

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

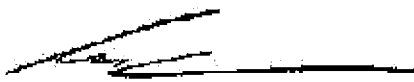
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES

To: **RIO TINTO EXPLORATION CANADA INC.**
ATTN: BRIAN GOLDNER
354-200 GRANVILLE STREET
VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: EB80002676

CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40210725		0.62		85.3	46.2	18.05	11.10	9.70	2.16	10.50	0.36	0.02	1.00	0.14	0.11	0.03
40210726		2.92	76.2		48.2	15.70	12.40	9.92	2.45	7.01	0.63	0.04	1.79	0.16	0.15	0.03
40210727		5.73			49.5	16.30	13.35	8.19	2.48	6.86	0.70	0.03	1.61	0.16	0.15	0.03
40210728		6.27			48.2	16.65	12.90	9.09	2.43	6.84	0.57	0.04	1.78	0.15	0.11	0.04
40210729		5.11			51.5	16.10	12.10	6.01	2.47	6.18	0.78	0.04	2.67	0.14	0.08	0.03
40210730		0.16			43.5	18.30	13.95	9.46	2.09	7.76	0.65	0.30	1.31	0.15	0.14	0.04
40210731		5.76			51.8	15.80	13.05	5.21	2.19	6.06	1.15	0.05	1.83	0.12	0.10	0.03
40210732		5.57			51.4	16.45	12.10	6.18	2.15	7.16	0.93	0.05	0.65	0.12	0.09	0.03
40210733		4.71			48.4	17.95	11.75	7.11	1.90	7.09	0.99	0.04	0.69	0.12	0.08	0.03
40210734		6.90			45.3	19.95	11.30	9.27	2.35	4.38	1.15	0.04	0.87	0.10	0.10	0.04
40210735		5.54			44.1	20.6	12.15	10.50	2.15	6.25	0.52	0.03	0.68	0.11	0.07	0.04
40210736		5.85			44.9	20.7	10.70	10.45	2.40	6.61	0.40	0.02	0.54	0.11	0.05	0.04
40210737		5.85			44.4	19.95	11.20	9.77	2.27	7.33	0.42	0.02	0.53	0.11	0.05	0.03
40210738		5.64			44.5	19.15	11.05	9.67	2.43	6.92	0.39	0.06	0.73	0.12	0.08	0.03
40210739		2.58			44.6	18.70	11.95	9.71	2.08	8.80	0.29	0.04	0.73	0.13	0.09	0.03
40210740		2.76			44.0	18.75	11.35	10.05	2.07	8.23	0.31	0.05	0.81	0.13	0.10	0.03
40210741		6.03			44.5	19.60	10.45	10.90	1.93	7.85	0.28	0.07	0.67	0.12	0.07	0.03
40210742		5.36			45.1	20.00	10.00	10.60	2.33	6.70	0.37	0.02	1.12	0.13	0.13	0.04
40210743		5.73			45.2	21.1	9.17	11.35	2.00	7.48	0.35	0.03	0.78	0.11	0.08	0.04
40210744		5.83			46.4	18.85	10.20	10.70	2.42	6.73	0.39	0.08	1.46	0.14	0.16	0.03
40210744 CRD		<0.02			46.4	18.95	10.35	10.75	2.45	6.73	0.39	0.08	1.48	0.14	0.16	0.03
40210745		5.63			44.9	21.1	8.59	11.05	1.97	7.18	0.53	0.16	0.95	0.11	0.10	0.04
40210746		5.66			46.6	21.9	8.03	11.30	2.20	5.38	0.71	0.24	0.86	0.10	0.09	0.04
40210747		5.69			55.6	16.20	9.53	6.23	3.24	3.98	0.99	0.02	1.43	0.11	0.19	0.03
40210748		6.30			47.2	19.10	10.35	9.40	2.26	7.89	0.41	0.06	1.03	0.13	0.14	0.03
40210749		5.58			45.2	23.0	7.69	12.25	2.07	5.70	0.38	0.03	0.92	0.10	0.09	0.04
40210750		1.08			45.8	18.10	10.70	9.84	2.15	10.10	0.36	0.02	1.03	0.13	0.10	0.03
40210751		5.27			44.9	22.4	8.45	11.45	2.13	6.62	0.32	0.14	0.89	0.10	0.09	0.04
40210752		5.85			46.7	22.9	7.97	12.20	2.33	5.43	0.39	0.03	0.98	0.10	0.12	0.04
40210753		6.66			45.4	17.70	11.65	10.20	2.33	7.66	0.37	0.03	1.54	0.16	0.20	0.03
40210754		0.22			41.0	17.60	16.10	9.17	1.81	6.18	0.88	0.08	1.29	0.13	0.13	0.04
40210755		0.99			27.6	8.54	36.0	6.41	1.29	3.95	0.30	0.01	2.14	0.15	0.32	0.01
40210756		0.99			46.0	18.35	11.05	9.66	2.20	9.99	0.37	0.02	1.06	0.14	0.11	0.03
40210757		4.15			47.4	19.85	10.25	11.20	2.40	6.87	0.37	0.04	1.07	0.14	0.10	0.03
40210758		6.05			48.7	17.55	12.35	10.65	2.53	7.88	0.37	0.05	1.26	0.15	0.12	0.03
40210759		5.85			48.0	17.00	12.65	10.55	2.50	7.87	0.39	0.04	1.38	0.16	0.13	0.03
40210760		0.16			45.2	18.15	12.50	9.53	2.09	7.46	1.08	0.34	1.37	0.14	0.15	0.05
40210761		6.15			47.9	16.70	13.35	10.10	2.54	7.65	0.44	0.03	1.53	0.17	0.14	0.03
40210762		12.18			48.7	14.65	14.30	10.25	2.73	6.41	0.55	0.05	2.18	0.18	0.22	0.03
40210763		11.30			49.2	14.35	14.05	10.60	2.70	6.48	0.55	0.05	2.16	0.18	0.22	0.03



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Project: EB80002676

CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40210725		0.01	0.02	0.06	120.5	19.5	180	1.23	2.84	1.82	1.13	18.8	2.84	<5	1.9	0.58
40210726		0.02	0.02	0.11	187.5	29.4	290	1.53	4.27	2.60	1.50	22.3	4.57	<5	2.8	0.85
40210727		0.03	0.01	0.35	235	31.4	220	1.42	3.65	2.34	1.66	22.2	4.13	<5	2.7	0.79
40210728		0.02	0.01	0.13	175.5	22.2	300	1.48	2.70	1.55	1.62	22.2	3.12	<5	2.0	0.56
40210729		0.02	0.02	0.29	194.5	26.1	280	2.14	2.32	1.41	1.24	20.6	2.62	<5	2.5	0.51
40210730		0.02	0.03	0.93	166.0	25.9	2400	2.56	3.41	2.19	1.20	21.0	3.82	<5	2.7	0.76
40210731		0.03	0.02	1.08	242	33.6	380	3.63	2.91	1.74	1.60	21.1	3.03	<5	2.9	0.65
40210732		0.02	0.02	0.79	189.5	27.2	390	2.59	2.37	1.52	1.07	19.1	2.60	<5	2.2	0.53
40210733		0.02	0.02	0.47	213	22.7	320	2.59	2.19	1.39	1.31	20.7	2.64	<5	1.9	0.54
40210734		0.02	0.02	1.02	195.0	24.0	290	2.31	2.70	1.47	1.27	20.9	2.89	<5	2.3	0.55
40210735		0.01	0.02	0.77	101.5	13.1	190	2.38	1.64	0.96	0.94	18.7	1.99	<5	1.1	0.38
40210736		0.01	0.02	0.52	90.3	10.6	190	2.05	1.45	0.84	0.89	19.1	1.43	<5	1.0	0.29
40210737		0.01	0.02	0.45	90.9	10.4	190	2.57	1.39	0.84	0.82	18.7	1.45	<5	1.0	0.29
40210738		0.01	0.03	0.53	102.5	13.3	490	2.18	1.84	0.99	0.88	19.6	1.92	<5	1.5	0.38
40210739		0.01	0.03	0.35	85.0	18.4	310	2.46	2.37	1.41	1.00	18.6	2.65	<5	2.0	0.48
40210740		0.01	0.02	0.43	88.1	19.3	350	2.22	2.56	1.47	1.00	18.2	2.79	<5	1.9	0.56
40210741		0.01	0.02	0.35	86.2	13.3	530	1.93	1.81	1.19	0.97	18.0	2.04	<5	1.3	0.39
40210742		0.01	0.02	0.23	121.0	23.6	180	1.91	3.04	1.87	1.33	20.1	3.44	<5	2.5	0.66
40210743		0.01	0.02	0.15	112.5	15.0	230	1.80	2.29	1.24	0.97	19.2	2.15	<5	1.5	0.42
40210744		0.01	0.02	0.10	140.0	28.6	640	1.55	3.91	2.34	1.33	21.3	4.08	<5	3.2	0.83
40210744 CRD		0.01	0.02	0.09	139.0	27.6	640	1.44	3.69	2.36	1.44	20.8	4.11	<5	3.0	0.80
40210745		0.02	0.03	0.14	177.0	18.1	1280	1.65	2.46	1.46	1.05	19.2	2.70	<5	1.9	0.54
40210746		0.02	0.02	0.06	222	20.1	1910	1.71	2.66	1.51	1.12	20.8	2.73	<5	2.1	0.54
40210747		0.03	0.02	0.10	262	53.0	180	1.51	5.35	3.28	1.73	23.9	6.03	<5	5.3	1.15
40210748		0.01	0.02	0.05	151.5	34.8	530	1.32	3.69	2.25	1.38	20.1	3.91	<5	2.9	0.79
40210749		0.01	0.01	0.07	107.5	16.9	230	1.22	2.34	1.27	1.03	19.4	2.44	<5	1.8	0.46
40210750		0.01	0.01	0.05	123.0	18.6	190	1.09	2.79	1.49	1.03	18.1	2.69	<5	2.0	0.55
40210751		0.01	0.02	0.03	100.5	16.2	1030	1.07	2.19	1.29	0.97	18.8	2.39	<5	1.8	0.43
40210752		0.01	0.01	0.03	126.5	21.4	230	0.85	2.88	1.56	1.14	19.9	2.99	<5	2.0	0.60
40210753		0.01	0.02	0.04	131.5	35.0	240	0.71	4.54	2.79	1.51	19.5	4.92	<5	3.4	0.93
40210754		0.02	0.03	2.63	194.5	23.8	610	2.88	2.93	1.63	1.29	18.3	3.45	<5	2.5	0.65
40210755		0.01	0.01	13.10	121.5	36.0	80	0.50	5.07	2.92	1.44	15.5	5.46	<5	3.4	1.08
40210756		0.01	0.02	0.06	125.0	20.5	160	1.26	2.88	1.62	1.03	18.6	2.88	<5	2.3	0.60
40210757		0.01	0.01	0.08	139.5	20.1	310	0.50	2.67	1.61	1.12	20.6	2.79	<5	2.0	0.59
40210758		0.02	0.01	0.05	136.5	22.2	330	0.61	3.21	1.90	1.18	19.6	3.37	<5	2.2	0.62
40210759		0.02	0.01	0.04	144.5	24.0	340	0.60	3.27	2.08	1.27	20.0	3.86	<5	2.5	0.72
40210760		0.04	0.05	0.37	337	27.8	2580	2.57	3.64	2.08	1.30	20.5	3.95	<5	2.7	0.74
40210761		0.02	0.01	0.04	166.0	28.8	240	0.64	3.99	2.34	1.36	20.9	4.00	<5	2.9	0.82
40210762		0.02	0.01	0.09	201	38.7	320	0.59	5.41	3.26	1.73	21.7	5.80	<5	4.0	1.14
40210763		0.02	0.02	0.09	198.5	39.6	330	0.59	5.46	3.25	1.78	21.0	5.86	<5	4.0	1.13



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
40210725		0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
40210725		9.3	0.20	5.6	11.2	2.57	9.1	2.83	1	269	0.4	0.46	0.94	0.21	0.26	128
40210726		14.1	0.32	8.7	17.4	4.08	19.2	4.40	2	224	0.5	0.66	1.74	0.35	0.75	257
40210727		14.8	0.30	9.3	17.1	4.17	21.0	4.33	1	286	0.6	0.67	1.78	0.31	0.80	250
40210728		10.8	0.21	7.2	12.7	2.91	17.4	3.12	1	307	0.5	0.48	1.48	0.25	0.67	297
40210729		13.1	0.23	7.7	13.1	3.38	28.2	2.85	1	261	0.6	0.42	2.36	0.22	1.20	405
40210730		12.3	0.26	7.6	15.0	3.50	22.2	3.61	2	340	0.5	0.58	1.22	0.31	0.31	181
40210731		17.4	0.26	9.0	17.5	4.37	47.4	3.47	1	270	0.6	0.51	3.24	0.25	1.72	421
40210732		13.4	0.22	5.3	14.1	3.45	35.2	2.84	1	243	0.4	0.43	2.48	0.22	1.29	196
40210733		11.3	0.19	5.1	12.1	2.97	36.6	2.58	1	277	0.3	0.41	1.77	0.18	0.87	155
40210734		11.6	0.22	5.9	13.0	3.15	44.2	2.94	1	330	0.4	0.46	1.68	0.22	0.67	162
40210735		6.3	0.12	3.3	8.1	1.80	16.0	1.87	2	297	0.2	0.28	0.56	0.14	0.17	94
40210736		5.2	0.10	2.6	6.2	1.45	11.9	1.47	3	299	0.2	0.21	0.44	0.14	0.11	84
40210737		5.1	0.11	2.8	6.2	1.37	12.7	1.38	2	285	0.2	0.23	0.46	0.11	0.11	75
40210738		6.5	0.15	3.8	7.4	1.74	11.3	1.81	2	278	0.2	0.32	0.54	0.13	0.15	130
40210739		8.8	0.20	4.8	10.1	2.54	7.6	2.72	1	259	0.3	0.40	0.84	0.20	0.18	102
40210740		9.2	0.20	5.2	11.3	2.57	8.4	2.67	2	254	0.3	0.45	0.88	0.22	0.23	111
40210741		6.3	0.15	3.5	8.0	1.84	7.4	1.94	1	251	0.2	0.32	0.52	0.16	0.14	122
40210742		11.3	0.27	7.0	13.8	3.28	10.1	3.75	1	288	0.4	0.55	1.05	0.26	0.24	126
40210743		7.3	0.17	4.2	9.3	2.00	9.0	1.96	1	290	0.3	0.34	0.62	0.32	0.15	104
40210744		13.6	0.30	8.2	16.5	3.88	10.9	3.95	1	278	0.5	0.67	1.23	0.34	0.29	184
40210744 CRD		12.8	0.32	8.4	16.3	3.80	11.1	3.95	1	275	0.5	0.66	1.23	0.35	0.32	180
40210745		8.7	0.21	5.1	10.5	2.44	14.7	2.60	1	318	0.3	0.40	0.74	0.19	0.17	125
40210746		9.6	0.17	4.9	11.2	2.68	22.2	2.77	1	309	0.4	0.44	1.13	0.21	0.41	145
40210747		26.1	0.47	13.1	27.5	6.88	34.4	6.39	2	241	0.9	0.87	4.68	0.45	1.89	155
40210748		16.6	0.29	13.0	18.9	4.71	11.6	4.42	1	280	0.5	0.60	2.07	0.31	0.61	128
40210749		7.9	0.18	4.9	9.6	2.32	10.7	2.26	1	320	0.3	0.38	0.77	0.20	0.19	109
40210750		9.2	0.22	5.4	11.0	2.61	8.7	2.67	1	266	0.3	0.44	0.94	0.24	0.25	126
40210751		7.8	0.17	4.5	9.3	2.22	8.3	2.10	1	315	0.3	0.35	0.70	0.20	0.14	121
40210752		10.2	0.24	5.7	12.1	2.94	9.7	2.87	1	318	0.4	0.46	0.94	0.22	0.20	124
40210753		16.6	0.37	9.0	19.7	4.67	9.3	4.54	1	238	0.6	0.77	1.64	0.39	0.39	182
40210754		11.4	0.20	6.8	14.1	3.27	30.7	3.17	2	378	0.4	0.52	1.16	0.25	0.42	161
40210755		16.5	0.38	11.1	21.8	4.99	7.5	5.36	4	127.0	0.7	0.87	1.51	0.42	0.41	221
40210756		9.7	0.22	6.0	11.9	2.76	8.5	2.94	1	269	0.4	0.50	0.96	0.24	0.24	127
40210757		9.8	0.24	5.4	11.7	2.83	7.4	3.02	1	268	0.3	0.43	0.87	0.22	0.25	158
40210758		10.0	0.24	6.0	12.7	2.94	7.7	2.91	1	241	0.5	0.56	0.96	0.24	0.28	174
40210759		10.9	0.25	6.7	13.7	3.30	8.4	3.43	1	244	0.5	0.60	1.18	0.30	0.33	198
40210760		12.4	0.28	7.5	15.3	3.59	33.3	3.57	2	415	0.5	0.59	1.32	0.28	0.36	190
40210761		12.9	0.31	8.1	15.7	3.82	10.0	3.51	1	243	0.6	0.65	1.33	0.32	0.36	207
40210762		17.6	0.43	11.2	21.5	5.21	11.9	5.40	2	215	0.8	0.89	1.96	0.46	0.48	285
40210763		17.7	0.43	11.0	21.7	5.19	12.4	5.32	1	214	0.8	0.87	1.87	0.45	0.51	285

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40210725		<1	14.1	1.42	78	0.6	0.03	<0.005	0.038	0.001	0.07	0.7	0.02	0.04	0.75	100.13
40210726		<1	21.6	2.08	102	2.7	0.03	0.005	0.020	0.001	0.10	0.8	0.02	0.17	1.21	99.71
40210727		<1	19.3	1.97	104	3.0	0.04	<0.005	0.025	0.003	0.11	1.3	0.05	0.20	1.36	100.75
40210728		<1	14.0	1.29	73	1.8	0.03	<0.005	0.019	0.002	0.10	0.8	0.02	0.18	0.77	99.59
40210729		1	12.1	1.27	93	2.3	0.02	<0.005	0.025	0.002	0.12	1.0	0.03	0.18	1.56	99.68
40210730		1	18.1	1.68	101	7.9	0.55	0.012	0.057	0.008	0.35	3.8	0.21	0.33	1.34	99.01
40210731		1	15.3	1.47	113	1.8	0.03	<0.005	0.030	0.005	0.12	1.6	0.05	0.26	2.43	99.85
40210732		<1	12.9	1.34	85	3.2	0.08	<0.005	0.036	0.006	0.12	1.9	0.08	0.27	2.43	99.76
40210733		1	12.3	1.34	70	10.2	0.06	<0.005	0.035	0.005	0.25	1.6	0.06	0.19	2.73	98.90
40210734		<1	14.1	1.31	90	132.0	0.13	<0.005	0.050	0.009	1.25	2.4	0.10	0.20	3.37	98.24
40210735		<1	8.9	0.87	43	18.4	0.10	<0.005	0.032	0.004	0.36	2.1	0.09	0.11	2.98	100.19
40210736		<1	7.0	0.67	37	11.8	0.33	<0.005	0.032	0.004	0.41	1.6	0.15	0.07	3.39	100.32
40210737		<1	7.2	0.78	37	149.5	0.13	<0.005	0.041	0.004	1.14	1.9	0.12	0.07	3.15	99.24
40210738		<1	9.6	0.91	54	>250	0.44	<0.005	0.069	0.004	0.96	2.6	0.17	0.07	3.68	98.82
40210739		<1	12.5	1.16	79	105.0	0.07	0.005	0.032	0.001	0.66	1.2	0.07	0.05	3.33	100.49
40210740		<1	13.4	1.28	74	146.0	0.10	0.005	0.031	0.002	0.74	1.6	0.09	0.05	3.82	99.71
40210741		<1	9.7	0.96	47	8.4	0.07	0.005	0.032	0.003	0.15	1.1	0.10	0.05	3.74	100.22
40210742		<1	16.3	1.63	91	33.6	0.10	0.005	0.025	0.002	0.24	1.3	0.05	0.05	3.03	99.58
40210743		<1	10.8	1.07	57	26.9	0.07	<0.005	0.022	0.002	0.30	1.2	0.08	0.05	2.39	100.09
40210744		<1	20.4	1.82	126	14.6	0.07	<0.005	0.020	0.001	0.15	0.7	0.03	0.05	2.27	99.84
40210744 CRD		<1	20.2	2.01	112	15.1	0.05	<0.005	0.022	0.001	0.16	1.0	0.02	0.05	2.32	100.24
40210745		1	12.6	1.30	73	102.5	0.22	<0.005	0.046	0.001	0.54	1.2	0.08	0.06	4.26	100.96
40210746		<1	13.1	1.34	77	15.9	0.04	<0.005	0.021	0.001	0.13	0.5	0.02	0.06	2.67	100.14
40210747		1	28.1	2.94	196	6.3	0.04	<0.005	0.031	0.001	0.14	1.1	0.03	0.11	2.03	99.61
40210748		<1	18.8	1.84	114	18.4	0.03	<0.005	0.017	0.001	0.14	0.7	0.01	0.07	1.61	99.62
40210749		1	11.6	1.14	65	3.2	0.02	<0.005	0.016	<0.001	0.06	0.6	0.03	0.02	1.76	99.24
40210750		<1	13.6	1.19	74	0.2	0.01	<0.005	0.015	0.001	<0.05	0.5	0.02	0.03	0.65	99.02
40210751		<1	11.1	0.96	63	3.1	0.01	<0.005	0.013	0.001	0.06	0.4	0.02	0.02	1.28	98.82
40210752		<1	14.6	1.38	77	3.0	0.01	<0.005	0.013	0.001	0.05	0.5	0.01	0.02	0.95	100.15
40210753		<1	23.4	2.34	130	5.4	0.02	<0.005	0.021	0.001	0.09	0.7	0.01	0.03	1.14	98.42
40210754		<1	15.4	1.52	94	16.3	0.88	0.028	0.080	0.023	0.53	7.0	0.43	1.07	2.91	97.34
40210755		<1	26.3	2.39	134	37.2	0.25	<0.005	0.312	0.082	0.37	26.5	1.03	0.74	5.12	91.85
40210756		<1	14.6	1.43	90	0.2	0.02	<0.005	0.018	0.001	0.06	0.6	0.01	0.04	0.70	99.69
40210757		<1	14.7	1.40	74	6.6	0.02	<0.005	0.018	0.001	0.10	0.6	0.02	0.03	0.45	100.18
40210758		1	16.3	1.61	85	<0.1	0.01	<0.005	0.018	0.001	<0.05	0.5	0.01	0.03	0.30	101.96
40210759		<1	17.7	1.85	95	0.2	<0.01	<0.005	0.020	0.001	<0.05	0.7	0.02	0.03	0.27	100.99
40210760		<1	18.5	1.83	103	5.1	0.16	0.009	0.031	0.003	0.42	1.5	0.07	0.42	2.05	100.15
40210761		1	20.2	2.14	112	3.6	0.02	<0.005	0.019	0.001	0.06	0.6	0.02	0.03	0.45	101.05
40210762		<1	28.1	2.90	155	1.1	0.01	<0.005	0.024	0.001	<0.05	0.7	0.02	0.03	0.62	100.89
40210763		<1	28.9	2.80	158	0.6	0.01	<0.005	0.023	0.001	0.05	0.7	0.01	0.04	0.75	101.34



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001	
40210725		<0.5	<5	<0.5	58	107	10	<1	344	4	15	<10	81	0.002	0.005	0.007	
40210726		<0.5	<5	0.6	48	229	20	<1	124	<2	32	<10	97	0.004	0.008	0.006	
40210727		<0.5	<5	0.9	57	431	20	<1	164	<2	25	<10	112	0.006	0.007	0.010	
40210728		<0.5	<5	0.7	49	263	20	<1	127	3	26	<10	97	0.004	0.006	0.008	
40210729		<0.5	<5	<0.5	48	165	30	<1	89	4	26	<10	106	0.007	<0.005	0.001	
40210730		1.5	<5	0.8	92	3660	30	3	1855	6	17	<10	104	0.073	0.123	0.718	
40210731		<0.5	<5	0.6	74	280	40	7	236	4	28	<10	115	0.003	<0.005	0.005	
40210732		<0.5	<5	0.5	69	648	30	2	447	5	21	<10	104	0.012	0.016	0.031	
40210733		0.5	48	0.6	57	741	30	<1	440	4	17	<10	98	0.014	0.027	0.048	
40210734		0.6	115	0.8	90	1060	30	13	798	7	13	<10	87	0.016	0.041	0.054	
40210735		0.6	16	0.5	96	829	30	14	686	9	11	<10	79	0.012	0.021	0.050	
40210736		<0.5	8	0.7	79	817	30	<1	640	6	9	<10	65	0.018	0.027	0.063	
40210737		<0.5	129	0.6	80	996	20	<1	660	7	8	<10	74	0.018	0.037	0.080	
40210738		<0.5	225	1.2	81	975	20	<1	646	19	12	<10	304	0.026	0.030	0.088	
40210739		<0.5	79	0.5	72	472	20	<1	444	5	11	<10	96	0.006	0.011	0.014	
40210740		<0.5	129	0.5	74	544	20	<1	480	7	12	<10	103	0.007	0.010	0.018	
40210741		0.7	10	0.6	76	990	20	<1	703	6	15	<10	67	0.011	0.026	0.095	
40210742		<0.5	29	0.5	53	622	10	<1	436	6	13	<10	88	0.012	0.033	0.083	
40210743		0.5	28	0.5	50	739	10	<1	523	2	11	<10	68	0.028	0.047	0.235	
40210744		<0.5	12	<0.5	44	138	10	<1	179	2	20	<10	88	0.004	0.024	0.071	
40210744 CRD		<0.5	17	<0.5	44	136	10	<1	177	<2	21	<10	86	0.005	0.024	0.071	
40210745		<0.5	79	0.8	41	427	20	<1	363	2	11	<10	203	0.013	0.029	0.141	
40210746		<0.5	11	<0.5	36	115	10	<1	179	4	13	<10	79	0.002	0.008	0.019	
40210747		<0.5	<5	<0.5	26	150	10	<1	59	3	23	<10	114	0.001	<0.005	0.003	
40210748		<0.5	16	<0.5	48	106	10	<1	252	<2	14	<10	83	0.002	0.007	0.023	
40210749		<0.5	<5	<0.5	35	306	10	<1	217	2	10	<10	59	0.008	0.027	0.059	
40210750		<0.5	<5	<0.5	57	107	10	<1	336	3	16	<10	78	0.002	<0.005	0.007	
40210751		<0.5	<5	<0.5	39	101	10	<1	210	<2	10	<10	64	0.002	0.005	0.006	
40210752		<0.5	<5	<0.5	32	101	10	<1	152	<2	12	<10	61	0.001	<0.005	0.004	
40210753		<0.5	<5	<0.5	46	132	10	<1	182	<2	22	<10	93	0.003	0.005	0.005	
40210754		2.4	19	0.9	161	7710	40	7	3650	11	16	<10	103	0.177	0.342	1.585	
40210755		6.4	34	3.4	418	>10000	10	1	4820	4	23	<10	248	0.089	<0.005	0.042	
40210756		<0.5	<5	<0.5	56	133	10	<1	323	<2	13	<10	79	0.002	<0.005	0.007	
40210757		<0.5	7	<0.5	42	222	10	<1	149	4	19	<10	77	0.005	0.010	0.010	
40210758		<0.5	<5	<0.5	47	156	10	<1	152	5	22	<10	84	0.003	0.010	0.011	
40210759		<0.5	<5	<0.5	49	163	10	<1	147	<2	24	<10	88	0.003	0.009	0.009	
40210760		<0.5	<5	<0.5	62	1095	40	2	685	11	18	<10	110	0.020	0.052	0.205	
40210761		<0.5	<5	<0.5	53	188	10	<1	142	3	24	<10	104	0.004	0.010	0.009	
40210762		<0.5	<5	0.6	47	227	10	<1	79	3	36	<10	117	0.005	0.014	0.014	
40210763		<0.5	<5	0.5	45	210	10	<1	72	2	38	<10	109	0.005	0.014	0.011	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Al2O3 %	As %	CaO %	Co %	Cr %	Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %
		0.01	0.01	0.05	0.002	0.01	0.005	0.05	0.05	0.1	0.01	0.01	0.005	0.01	0.01	0.2
40210725 40210726 40210727 40210728 40210729																
40210730 40210731 40210732 40210733 40210734																
40210735 40210736 40210737 40210738 40210739																
40210740 40210741 40210742 40210743 40210744																
40210744 CRD 40210745 40210746 40210747 40210748																
40210749 40210750 40210751 40210752 40210753																
40210754 40210755 40210756 40210757 40210758		8.54	<0.01	6.35	0.045	<0.01	1.670	29.6	42.3	0.3	3.92	0.15	0.518	<0.01	13.85	27.8
40210759 40210760 40210761 40210762 40210763																

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81
		TiO2 % 0.01	Zn % 0.002
40210725 40210726 40210727 40210728 40210729			
40210730 40210731 40210732 40210733 40210734			
40210735 40210736 40210737 40210738 40210739			
40210740 40210741 40210742 40210743 40210744			
40210744 CRD 40210745 40210746 40210747 40210748			
40210749 40210750 40210751 40210752 40210753			
40210754 40210755 40210756 40210757 40210758		2.30	0.03
40210759 40210760 40210761 40210762 40210763			

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40210764		12.09			48.9	14.70	14.70	9.83	2.79	6.23	0.61	0.03	2.32	0.19	0.24	0.03
40210764 CRD		<0.02			48.3	14.55	14.50	9.76	2.77	6.15	0.62	0.03	2.24	0.19	0.24	0.03
40210765		12.20			48.7	14.65	14.25	9.68	2.81	6.07	0.66	0.03	1.99	0.18	0.24	0.03
40210766		11.51			47.9	14.55	14.50	9.79	2.70	6.22	0.60	0.03	2.21	0.18	0.23	0.03
40210767		11.79			48.5	14.70	12.85	9.73	2.79	5.50	0.65	0.03	1.82	0.17	0.23	0.03
40210768		11.88			48.9	14.75	14.65	9.40	2.83	5.47	0.68	0.03	2.28	0.19	0.27	0.03
40210769		5.66			50.2	14.95	13.90	9.13	3.31	4.24	0.88	0.02	2.56	0.18	0.34	0.03
40210770		5.71			50.0	14.80	13.85	9.06	3.28	4.21	0.86	0.02	2.43	0.18	0.37	0.03
40210771		12.11			48.5	14.10	16.15	9.01	2.89	5.44	0.67	0.03	2.34	0.21	0.39	0.03
40210772		11.61	78.8	94.6	48.6	14.95	13.70	9.32	3.11	4.42	0.80	0.03	2.25	0.18	0.31	0.03
40210773		11.82			48.4	14.40	13.80	9.68	3.20	4.45	0.78	0.02	2.85	0.18	0.29	0.03
40210774		11.97			47.9	13.45	14.10	10.25	2.78	5.79	0.61	0.03	2.39	0.19	0.22	0.03
40210775		12.14			46.0	13.75	13.40	9.72	2.64	6.10	0.57	0.04	2.09	0.17	0.21	0.03
40210776		11.00			48.3	13.75	14.00	10.10	2.77	5.66	0.62	0.05	2.40	0.18	0.27	0.03
40210777		12.01			48.5	14.50	13.45	9.98	2.76	6.21	0.60	0.04	1.99	0.18	0.21	0.03
40210778		12.54			47.3	13.90	14.45	9.65	2.67	6.46	0.53	0.04	2.36	0.18	0.22	0.02
40210779		12.09			47.3	14.45	13.45	10.20	2.59	6.51	0.50	0.05	1.94	0.17	0.19	0.03
40210780		1.50			45.9	18.35	10.20	9.97	2.25	8.71	0.36	0.02	1.03	0.12	0.12	0.03
40210781		12.03			47.7	14.80	13.75	9.90	2.69	6.31	0.55	0.05	2.01	0.17	0.21	0.03
40210782		12.01			47.4	14.85	14.30	9.65	2.73	6.45	0.53	0.04	2.21	0.18	0.21	0.03
40210783		11.82			47.0	15.00	14.60	9.47	2.68	6.50	0.52	0.04	2.33	0.18	0.20	0.03
40210784		11.89			47.0	14.80	14.20	9.97	2.62	6.69	0.51	0.04	2.29	0.18	0.18	0.03
40210784 CRD		<0.02			47.8	15.00	14.40	9.87	2.66	6.73	0.51	0.04	2.28	0.18	0.20	0.03
40210785		11.87			46.8	15.10	14.25	9.46	2.68	6.33	0.52	0.04	2.25	0.18	0.20	0.03
40210786		11.89			47.0	14.85	15.15	9.23	2.63	7.15	0.53	0.04	2.17	0.18	0.20	0.03
40210787		11.38			46.5	15.20	14.25	9.41	2.67	6.37	0.50	0.04	2.21	0.18	0.21	0.03
40210788		11.64			45.1	13.50	16.70	8.46	2.30	9.07	0.45	0.04	1.96	0.20	0.17	0.02
40210789		11.37			46.9	15.95	13.40	9.44	2.77	6.14	0.56	0.03	2.01	0.16	0.20	0.03
40210790		0.16			44.5	18.00	12.30	9.33	2.06	7.35	1.06	0.34	1.35	0.14	0.15	0.05
40210791		11.47			46.5	17.15	12.15	10.00	2.84	5.21	0.55	0.03	1.99	0.16	0.20	0.03
40210792		11.21			46.6	17.05	12.85	9.24	2.86	5.48	0.57	0.02	1.86	0.17	0.21	0.03
40210793		12.50			46.7	17.30	12.90	9.48	2.80	5.76	0.53	0.01	1.94	0.17	0.20	0.03
40210794		11.96			47.1	17.30	13.05	9.47	2.78	5.91	0.53	0.01	2.00	0.17	0.20	0.03
40210795		12.42			46.7	15.90	14.30	8.80	2.62	7.26	0.52	0.02	1.86	0.19	0.21	0.03
40210796		12.56			46.8	16.40	14.30	9.08	2.66	6.92	0.55	0.03	1.93	0.18	0.21	0.03
40210797		12.30			46.6	15.95	14.30	9.32	2.59	7.02	0.54	0.04	1.97	0.19	0.21	0.03
40210798		11.95			45.4	15.95	12.95	9.85	2.54	6.33	0.51	0.03	2.03	0.17	0.21	0.03
40210799		5.92			46.4	15.80	13.80	9.49	2.60	6.74	0.51	0.04	1.99	0.18	0.21	0.03
40210800		5.61			46.7	16.05	13.50	9.64	2.60	6.53	0.51	0.04	1.98	0.18	0.21	0.03
40210801		12.37			46.3	15.75	13.85	9.44	2.61	6.43	0.55	0.03	2.08	0.18	0.23	0.03



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte Units LOR	BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40210764		0.03	0.02	0.08	228	43.5	220	0.62	6.22	3.64	1.87	23.1	6.46	<5	4.7	1.26
40210764 CRD		0.02	0.02	0.07	219	43.0	210	0.59	5.74	3.44	1.82	21.9	6.02	<5	4.4	1.26
40210765		0.03	0.01	0.05	229	44.6	230	0.67	5.84	3.62	1.78	21.7	6.50	<5	4.6	1.28
40210766		0.02	0.02	0.11	211	39.9	250	0.52	5.59	3.26	1.71	21.5	5.78	<5	4.3	1.21
40210767		0.03	0.02	0.10	224	44.0	240	0.56	6.01	3.55	1.87	22.1	6.36	<5	4.4	1.23
40210768		0.03	0.01	0.11	241	49.0	210	0.60	5.99	3.80	2.02	23.1	6.92	<5	4.9	1.31
40210769		0.03	0.01	0.07	279	55.7	150	0.81	7.37	4.29	2.29	24.5	7.67	<5	5.6	1.58
40210770		0.03	0.01	0.05	275	59.5	150	0.78	7.28	4.39	2.48	24.9	8.25	<5	5.9	1.61
40210771		0.03	0.01	0.07	239	50.9	200	0.73	6.83	4.02	2.29	22.4	7.39	<5	5.1	1.50
40210772		0.03	0.02	0.07	286	51.6	230	0.82	7.15	4.13	2.38	24.7	7.17	<5	5.0	1.38
40210773		0.03	0.06	0.08	264	50.5	180	0.61	6.61	3.75	2.27	24.2	7.42	<5	5.3	1.46
40210774		0.03	0.02	0.08	235	39.3	250	0.54	5.61	3.44	1.80	21.7	6.23	<5	4.2	1.24
40210775		0.02	0.01	0.07	198.5	38.6	270	0.53	5.36	3.28	1.65	21.2	5.78	<5	3.9	1.21
40210776		0.03	0.03	0.11	225	47.8	340	0.48	6.59	3.75	2.03	22.4	7.17	<5	4.7	1.41
40210777		0.03	0.01	0.10	225	40.7	320	0.57	5.67	3.38	1.81	21.5	6.06	<5	4.6	1.17
40210778		0.02	0.02	0.10	204	40.1	260	0.59	5.58	3.41	1.86	21.3	5.94	<5	4.0	1.21
40210779		0.02	0.03	0.10	183.5	34.9	370	0.49	4.64	2.83	1.55	20.9	5.48	<5	3.4	1.01
40210780		0.01	0.02	0.05	121.5	21.0	150	1.65	2.67	1.57	1.05	18.3	3.01	<5	2.0	0.58
40210781		0.02	0.02	0.06	202	37.6	340	0.54	5.19	3.04	1.69	21.9	5.26	<5	4.2	1.09
40210782		0.02	0.03	0.05	203	38.4	280	0.77	5.01	3.13	1.66	21.1	5.45	<5	4.1	1.14
40210783		0.02	0.02	0.07	195.0	36.4	270	0.52	4.80	2.91	1.58	21.7	5.19	<5	3.7	1.03
40210784		0.02	0.03	0.03	188.5	35.5	310	0.55	4.99	2.79	1.66	21.5	5.19	<5	3.8	1.00
40210784 CRD		0.02	0.02	0.05	189.5	35.4	310	0.54	4.82	2.93	1.56	21.8	5.26	<5	3.7	1.03
40210785		0.02	0.02	0.03	196.0	37.0	260	0.66	4.93	2.77	1.68	21.8	5.23	<5	3.7	1.07
40210786		0.02	0.02	0.05	195.5	37.4	280	0.57	5.05	3.14	1.68	21.6	5.26	<5	3.7	1.03
40210787		0.02	0.01	0.04	192.0	37.0	280	0.64	4.84	2.97	1.61	21.2	5.38	<5	3.6	1.04
40210788		0.02	0.01	0.04	163.0	33.6	280	0.81	3.97	2.38	1.31	19.4	4.54	<5	3.1	0.86
40210789		0.02	0.01	0.03	194.5	36.7	240	0.50	4.62	2.74	1.53	21.7	5.04	<5	3.6	1.00
40210790		0.04	0.04	0.35	346	27.4	2580	2.70	3.36	2.04	1.24	20.2	3.76	<5	2.7	0.71
40210791		0.03	0.02	0.04	231	34.5	240	0.55	5.14	2.83	1.69	22.8	5.09	<5	3.5	1.06
40210792		0.02	0.01	0.04	202	37.9	160	0.65	5.04	2.88	1.73	22.3	5.42	<5	3.6	1.11
40210793		0.02	0.02	0.04	195.0	34.5	90	0.58	4.60	2.68	1.58	23.1	5.25	<5	3.7	1.03
40210794		0.02	0.01	0.04	197.0	34.8	80	0.59	4.56	2.60	1.66	22.5	5.12	<5	3.5	1.03
40210795		0.02	0.01	0.08	186.0	36.7	120	0.67	5.03	2.71	1.58	21.7	5.37	<5	3.6	1.08
40210796		0.02	0.02	0.07	202	36.3	210	0.70	5.00	2.75	1.60	22.3	4.97	<5	3.9	1.05
40210797		0.02	0.02	0.05	197.5	36.1	270	0.67	5.02	2.82	1.62	21.6	5.56	<5	3.7	1.09
40210798		0.02	0.03	0.05	201	37.5	240	0.67	5.24	2.88	1.76	22.0	5.46	<5	3.9	1.10
40210799		0.02	0.02	0.04	184.5	36.5	270	0.72	5.06	2.74	1.61	21.6	5.55	<5	3.6	1.09
40210800		0.02	0.02	0.04	190.0	36.1	280	0.68	4.97	2.73	1.70	22.0	5.25	<5	3.8	1.05
40210801		0.02	0.01	0.04	197.0	38.3	250	0.69	5.33	2.95	1.81	21.5	5.77	<5	4.2	1.11



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
40210764		0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
40210764 CRD		19.5	0.50	12.8	25.5	5.76	14.4	5.95	2	225	0.9	1.01	2.17	0.52	0.61	285
40210765		19.5	0.47	12.2	24.2	5.65	13.9	5.62	2	215	0.8	0.92	2.01	0.49	0.56	264
40210766		20.0	0.44	12.4	24.6	5.92	15.2	5.88	2	214	0.8	1.02	2.20	0.50	0.62	231
40210766		18.0	0.45	11.7	22.2	5.27	13.7	5.19	2	216	0.8	0.89	1.91	0.46	0.53	270
40210767		20.0	0.47	12.1	23.9	5.92	15.2	5.93	1	218	0.8	0.96	2.21	0.51	0.65	208
40210768		22.4	0.48	13.4	26.7	6.40	16.6	6.35	2	224	1.0	1.03	2.55	0.53	0.73	260
40210769		25.5	0.55	16.2	30.8	7.52	23.1	7.53	2	241	1.1	1.19	2.89	0.58	0.89	238
40210770		26.7	0.61	16.2	32.3	7.71	22.9	7.62	2	239	1.1	1.20	3.13	0.62	0.90	231
40210771		22.4	0.57	14.9	28.4	6.82	16.2	6.96	2	216	1.1	1.14	2.43	0.59	0.74	214
40210772		23.0	0.56	14.7	28.7	7.01	20.5	7.01	2	253	1.0	1.13	2.37	0.58	0.61	227
40210773		22.7	0.55	14.5	28.2	6.81	19.2	6.82	2	244	1.0	1.13	2.40	0.57	0.65	347
40210774		17.5	0.47	11.2	22.5	5.20	15.4	5.67	1	216	0.8	0.95	1.91	0.47	0.50	353
40210775		17.6	0.44	10.8	21.3	5.05	12.3	5.17	1	207	0.8	0.91	1.85	0.45	0.48	305
40210776		21.7	0.56	13.3	27.3	6.35	14.3	6.52	2	213	0.9	1.08	2.43	0.54	0.96	302
40210777		18.3	0.46	11.7	22.1	5.43	13.7	5.31	2	221	0.8	0.95	2.19	0.50	0.65	242
40210778		18.1	0.44	11.7	22.7	5.39	12.1	5.69	2	211	0.9	0.95	1.88	0.46	0.58	308
40210779		15.8	0.38	9.7	19.7	4.52	10.8	4.96	2	218	0.7	0.79	1.67	0.41	0.50	273
40210780		9.7	0.22	5.5	11.5	2.74	9.2	2.73	1	277	0.4	0.48	0.92	0.23	0.21	123
40210781		16.9	0.40	11.0	21.0	5.01	12.5	5.18	2	223	0.8	0.86	1.83	0.45	0.52	255
40210782		17.4	0.41	10.9	21.2	5.10	12.1	4.94	2	225	0.7	0.83	1.88	0.41	0.52	278
40210783		16.4	0.40	11.1	19.9	4.81	11.3	4.79	2	225	0.8	0.79	1.72	0.40	0.46	279
40210784		16.0	0.39	10.6	20.1	4.83	11.1	4.68	2	225	0.7	0.79	1.72	0.43	0.47	293
40210784 CRD		15.7	0.39	10.4	19.8	4.80	11.5	5.17	2	225	0.7	0.78	1.70	0.46	0.44	285
40210785		16.8	0.40	10.7	20.6	4.92	11.4	4.84	2	226	0.8	0.81	1.71	0.39	0.47	272
40210786		17.0	0.43	10.8	21.2	4.96	11.9	4.95	2	223	0.8	0.82	1.78	0.41	0.49	271
40210787		16.4	0.38	10.7	20.6	4.80	11.4	5.05	1	230	0.7	0.85	1.74	0.41	0.49	275
40210788		15.7	0.32	8.7	17.7	4.20	11.0	4.16	1	200.0	0.6	0.70	1.47	0.34	0.36	260
40210789		16.5	0.37	10.4	19.5	4.85	12.9	4.83	1	241	0.7	0.78	1.78	0.38	0.48	242
40210790		12.6	0.27	7.6	14.9	3.63	33.4	3.52	2	402	0.5	0.55	1.31	0.29	0.32	197
40210791		16.4	0.42	10.1	20.0	4.76	14.7	4.86	1	261	0.6	0.80	1.51	0.39	0.46	259
40210792		17.8	0.40	10.4	21.4	5.14	14.5	5.31	2	264	0.6	0.86	1.64	0.43	0.49	227
40210793		16.1	0.40	10.2	20.0	4.61	12.9	4.68	1	261	0.7	0.75	1.60	0.41	0.50	230
40210794		16.3	0.38	10.6	19.7	4.65	12.3	4.70	1	256	0.6	0.77	1.43	0.37	0.42	224
40210795		17.4	0.39	10.9	21.1	4.81	12.4	5.31	1	231	0.7	0.82	1.74	0.42	0.52	192
40210796		17.0	0.40	10.7	20.6	4.92	13.5	5.32	2	242	0.6	0.85	1.60	0.39	0.48	228
40210797		16.5	0.38	10.4	20.6	4.87	12.8	5.22	2	236	0.6	0.87	1.65	0.42	0.48	239
40210798		17.7	0.39	11.1	21.3	4.96	12.1	5.14	2	222	0.7	0.91	1.69	0.44	0.48	247
40210799		17.3	0.40	10.7	21.1	4.99	11.9	5.24	1	228	0.6	0.91	1.56	0.39	0.46	244
40210800		17.1	0.40	10.5	20.4	4.88	12.6	5.21	2	237	0.6	0.85	1.64	0.40	0.45	246
40210801		18.0	0.40	11.2	21.5	5.13	12.8	5.28	1	234	0.7	0.86	1.76	0.42	0.49	250



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
		1	0.5	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.01	0.01	
40210764		<1	31.6	3.32	180	1.5	0.01	<0.005	0.025	0.001	<0.05	0.8	0.02	0.03	0.71	101.31
40210764 CRD		1	30.7	2.93	172	1.6	0.01	0.005	0.024	0.001	0.05	0.8	0.01	0.03	0.66	100.06
40210765		<1	31.4	3.04	176	3.3	0.02	0.006	0.025	0.001	0.05	0.9	0.02	0.04	0.84	100.16
40210766		<1	28.6	3.04	173	0.7	0.01	0.005	0.026	0.001	0.05	1.0	0.02	0.04	0.55	99.51
40210767		1	30.6	3.21	171	0.8	0.01	<0.005	0.025	0.001	<0.05	0.8	0.01	0.05	1.09	98.12
40210768		1	33.2	3.26	190	0.8	0.01	<0.005	0.025	0.001	0.05	0.7	0.02	0.03	0.72	100.23
40210769		1	38.0	3.65	218	2.4	0.02	<0.005	0.026	0.002	0.05	1.0	0.01	0.03	1.04	100.81
40210770		1	39.0	3.83	227	2.9	0.02	<0.005	0.025	0.001	0.06	0.9	0.02	0.03	1.13	100.25
40210771		1	36.0	3.53	190	4.2	0.02	<0.005	0.023	0.002	0.05	1.0	0.02	0.03	1.14	100.93
40210772		<1	36.6	3.46	189	2.2	0.02	<0.005	0.026	0.001	0.05	0.9	0.01	0.04	1.16	98.89
40210773		1	36.3	3.57	203	1.4	0.01	<0.005	0.023	0.002	<0.05	0.7	0.01	0.03	1.18	99.29
40210774		<1	29.7	3.07	157	1.9	0.03	<0.005	0.026	0.001	0.05	0.6	0.02	0.03	1.12	98.89
40210775		<1	28.5	2.94	148	2.5	0.01	<0.005	0.022	0.002	<0.05	0.6	0.02	0.04	0.75	95.49
40210776		<1	34.1	3.40	178	1.9	0.01	<0.005	0.027	0.002	0.05	0.7	0.02	0.04	1.04	99.20
40210777		<1	29.1	2.91	169	1.0	0.01	<0.005	0.022	0.001	<0.05	0.8	0.02	0.05	0.89	99.37
40210778		<1	28.9	2.93	155	1.3	0.01	<0.005	0.024	0.001	<0.05	0.6	0.02	0.04	0.85	98.65
40210779		<1	25.2	2.49	133	0.5	0.01	<0.005	0.025	0.001	<0.05	0.7	0.02	0.04	0.60	98.00
40210780		<1	14.3	1.45	79	0.5	0.01	<0.005	0.014	0.001	<0.05	0.4	0.01	0.06	1.90	98.97
40210781		<1	27.2	3.00	150	0.8	0.01	<0.005	0.024	0.001	<0.05	0.7	0.02	0.04	0.74	98.93
40210782		<1	27.2	2.62	154	1.6	0.01	<0.005	0.024	0.001	<0.05	0.6	0.02	0.04	1.01	99.61
40210783		<1	25.8	2.49	147	1.3	0.01	<0.005	0.025	0.001	0.05	0.6	0.02	0.04	0.63	99.20
40210784		<1	25.7	2.47	145	3.2	0.02	<0.005	0.021	0.001	<0.05	0.5	0.01	0.03	0.66	99.19
40210784 CRD		<1	25.6	2.51	145	4.0	0.01	<0.005	0.021	0.001	0.05	0.7	0.02	0.03	0.65	100.37
40210785		<1	25.8	2.59	144	5.0	0.11	<0.005	0.019	0.001	0.05	0.6	0.06	0.04	0.79	98.65
40210786		1	26.4	2.66	147	1.2	0.01	<0.005	0.021	0.001	<0.05	0.5	0.01	0.04	0.55	99.73
40210787		<1	25.7	2.59	140	6.1	0.03	<0.005	0.020	0.002	0.06	0.7	0.03	0.04	1.17	98.76
40210788		<1	21.7	2.21	118	9.1	0.03	<0.005	0.021	0.001	0.08	0.5	0.03	0.05	0.54	98.53
40210789		<1	24.3	2.45	136	4.0	0.02	<0.005	0.019	0.001	0.05	0.6	0.01	0.02	0.71	98.32
40210790		<1	18.4	1.67	106	4.6	0.16	0.010	0.030	0.003	0.34	1.2	0.05	0.45	2.05	98.72
40210791		<1	25.4	2.45	137	2.0	0.02	<0.005	0.021	0.001	0.05	0.7	0.02	0.03	1.71	98.55
40210792		1	26.3	2.37	148	2.1	0.02	<0.005	0.021	0.001	<0.05	0.4	0.01	0.03	1.20	98.16
40210793		1	25.3	2.58	144	1.0	0.01	<0.005	0.023	0.001	<0.05	0.6	0.01	0.03	1.42	99.26
40210794		<1	24.4	2.35	137	1.5	0.01	<0.005	0.020	0.001	<0.05	0.7	0.01	0.03	0.80	99.37
40210795		<1	26.2	2.63	151	0.5	0.01	<0.005	0.020	0.001	<0.05	0.7	0.01	0.06	0.64	99.07
40210796		<1	25.7	2.66	162	1.3	<0.01	<0.005	0.024	0.001	<0.05	0.5	0.01	0.05	0.71	99.82
40210797		<1	25.8	2.66	142	2.2	0.01	<0.005	0.022	0.001	0.05	0.7	0.01	0.05	0.80	99.58
40210798		<1	26.8	2.73	152	1.5	0.01	<0.005	0.020	0.001	0.05	0.7	0.01	0.06	3.07	99.09
40210799		<1	26.6	2.50	143	1.1	0.01	<0.005	0.023	0.001	0.05	0.7	0.01	0.06	1.49	99.30
40210800		<1	26.1	2.66	142	1.0	0.01	<0.005	0.020	0.001	<0.05	0.8	0.01	0.07	1.12	99.11
40210801		<1	27.4	2.66	159	1.1	0.01	<0.005	0.021	0.001	<0.05	0.5	0.02	0.05	0.81	98.31



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001
40210764		<0.5	<5	<0.5	45	216	10	<1	72	<2	32	<10	116	0.004	0.015	0.015
40210764 CRD		<0.5	<5	0.6	45	212	10	<1	72	<2	32	10	114	0.005	0.016	0.015
40210765		<0.5	<5	<0.5	44	204	10	<1	74	4	32	<10	121	0.004	0.012	0.010
40210766		<0.5	<5	<0.5	48	213	10	<1	77	2	33	10	117	0.005	0.011	0.009
40210767		<0.5	<5	<0.5	41	184	10	<1	66	<2	33	<10	114	0.004	0.015	0.014
40210768		<0.5	<5	<0.5	42	171	10	<1	61	<2	31	<10	122	0.003	0.013	0.010
40210769		<0.5	<5	<0.5	36	175	20	<1	38	4	32	<10	129	0.002	<0.005	0.003
40210770		<0.5	<5	<0.5	36	174	10	<1	40	3	31	<10	132	0.002	<0.005	0.003
40210771		<0.5	<5	0.6	46	183	20	<1	59	<2	32	<10	148	0.003	0.005	0.005
40210772		<0.5	<5	0.5	35	166	10	<1	43	3	33	<10	130	0.002	0.007	0.003
40210773		<0.5	<5	0.5	36	180	10	<1	42	4	37	<10	127	0.002	0.008	0.005
40210774		<0.5	<5	0.5	43	216	10	<1	61	<2	43	<10	122	0.002	<0.005	0.007
40210775		<0.5	<5	<0.5	44	220	10	<1	75	4	39	<10	117	0.004	0.014	0.024
40210776		<0.5	<5	<0.5	39	203	10	<1	64	<2	40	<10	121	0.003	0.011	0.017
40210777		<0.5	<5	<0.5	44	199	10	<1	79	4	36	<10	113	0.003	0.005	0.007
40210778		<0.5	<5	0.6	47	217	10	<1	82	6	36	<10	118	0.005	<0.005	0.006
40210779		<0.5	<5	<0.5	48	227	10	<1	82	2	37	<10	111	0.005	0.008	0.011
40210780		<0.5	<5	<0.5	55	105	20	<1	298	<2	12	<10	74	0.001	<0.005	0.006
40210781		<0.5	<5	0.5	46	218	10	<1	80	<2	33	<10	110	0.004	0.009	0.019
40210782		<0.5	<5	<0.5	50	226	10	<1	85	<2	32	<10	119	0.004	0.008	0.014
40210783		<0.5	<5	0.6	52	231	10	<1	88	4	31	<10	123	0.002	0.007	0.013
40210784		<0.5	5	<0.5	49	208	10	<1	92	5	32	<10	112	0.004	0.006	0.012
40210784 CRD		<0.5	<5	<0.5	47	208	10	<1	87	3	32	<10	112	0.004	0.007	0.012
40210785		<0.5	10	<0.5	49	210	10	<1	94	<2	29	<10	120	0.004	0.008	0.014
40210786		<0.5	<5	<0.5	53	206	10	<1	114	3	27	<10	117	0.005	0.007	0.021
40210787		<0.5	5	<0.5	48	194	10	<1	107	3	28	<10	120	0.005	<0.005	0.009
40210788		<0.5	10	<0.5	66	206	10	<1	184	2	26	<10	137	0.004	0.007	0.014
40210789		<0.5	<5	<0.5	47	155	10	<1	106	<2	25	<10	111	0.001	0.029	0.037
40210790		0.5	5	<0.5	62	1085	40	2	683	<2	17	<10	104	0.024	0.051	0.254
40210791		<0.5	<5	<0.5	41	148	10	<1	83	<2	26	<10	111	<0.001	0.021	0.032
40210792		<0.5	<5	<0.5	46	161	10	<1	92	<2	24	<10	116	<0.001	0.018	0.021
40210793		<0.5	<5	<0.5	46	154	10	1	98	5	24	<10	117	<0.001	0.007	0.012
40210794		<0.5	<5	<0.5	47	160	10	<1	103	6	24	<10	113	0.001	0.007	0.007
40210795		<0.5	<5	<0.5	53	154	10	<1	128	4	22	<10	115	0.001	0.009	0.008
40210796		<0.5	<5	<0.5	54	148	10	<1	119	2	22	<10	117	0.001	0.006	0.009
40210797		<0.5	<5	<0.5	54	159	10	<1	127	2	27	<10	122	0.001	0.010	0.012
40210798		<0.5	<5	<0.5	44	141	20	<1	95	3	25	<10	109	<0.001	<0.005	0.003
40210799		<0.5	<5	<0.5	48	159	10	<1	113	<2	27	<10	111	<0.001	<0.005	0.002
40210800		<0.5	<5	<0.5	49	162	10	<1	120	<2	28	<10	111	<0.001	<0.005	0.002
40210801		<0.5	<5	<0.5	47	163	10	<1	109	<2	27	<10	112	<0.001	<0.005	0.003



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Al2O3 %	As %	CaO %	Co %	Cr %	Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %
		0.01	0.01	0.05	0.002	0.01	0.005	0.05	0.05	0.1	0.01	0.01	0.005	0.01	0.01	0.2
40210764 40210764 CRD 40210765 40210766 40210767																
40210768 40210769 40210770 40210771 40210772																
40210773 40210774 40210775 40210776 40210777																
40210778 40210779 40210780 40210781 40210782																
40210783 40210784 40210784 CRD 40210785 40210786																
40210787 40210788 40210789 40210790 40210791																
40210792 40210793 40210794 40210795 40210796																
40210797 40210798 40210799 40210800 40210801																



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81
		TiO2 %	Zn %
40210764 40210764 CRD 40210765 40210766 40210767		0.01	0.002
40210768 40210769 40210770 40210771 40210772			
40210773 40210774 40210775 40210776 40210777			
40210778 40210779 40210780 40210781 40210782			
40210783 40210784 40210784 CRD 40210785 40210786			
40210787 40210788 40210789 40210790 40210791			
40210792 40210793 40210794 40210795 40210796			
40210797 40210798 40210799 40210800 40210801			

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



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40210802		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40210803		12.53			46.6	16.15	12.95	9.79	2.70	5.81	0.57	0.03	2.10	0.17	0.22	0.03
40210804		12.35			46.3	15.85	13.55	9.71	2.60	6.19	0.57	0.04	2.07	0.18	0.22	0.03
40210804 CRD		10.79			46.9	15.90	14.10	9.65	2.61	6.58	0.56	0.04	2.10	0.19	0.22	0.03
40210805		<0.02			47.8	16.05	12.65	10.60	2.62	6.26	0.58	0.05	1.99	0.18	0.20	0.03
40210806		11.67			47.2	16.40	12.95	9.88	2.80	5.97	0.55	0.03	2.11	0.17	0.20	0.03
40210806		11.36			47.7	16.90	12.70	10.20	2.76	5.84	0.59	0.04	1.93	0.17	0.21	0.03
40210807		11.38			48.0	15.95	12.55	10.60	2.64	6.28	0.58	0.04	1.93	0.17	0.19	0.03
40210808		10.56			47.9	16.80	12.35	10.30	2.79	5.66	0.60	0.04	1.95	0.17	0.21	0.03
40210809		11.45			49.0	18.65	11.00	10.75	3.10	4.50	0.70	0.03	1.89	0.15	0.20	0.04
40210810		1.25			45.9	18.30	11.40	9.79	2.17	10.15	0.37	0.02	1.13	0.14	0.11	0.03
40210811		11.33			49.1	18.20	11.05	10.45	3.17	4.63	0.70	0.03	1.89	0.15	0.25	0.04
40210812		11.26			48.6	16.55	13.05	9.89	2.99	5.45	0.61	0.03	2.18	0.18	0.29	0.03
40210813		11.31			47.8	16.05	13.15	10.25	2.66	6.30	0.51	0.04	1.97	0.18	0.21	0.03
40210814		11.12			48.9	17.40	12.20	10.30	3.01	5.26	0.61	0.04	1.82	0.17	0.23	0.03
40210815		11.27			47.3	16.00	14.00	9.92	2.63	6.72	0.47	0.04	2.02	0.19	0.20	0.03
40210816		11.22			48.1	16.05	13.25	10.35	2.70	6.19	0.55	0.04	2.16	0.18	0.20	0.03
40210817		11.22			46.7	15.30	13.70	10.15	2.58	6.46	0.53	0.04	2.38	0.18	0.19	0.03
40210818		11.25			46.7	14.90	14.75	10.25	2.53	6.62	0.50	0.04	2.72	0.19	0.19	0.03
40210819		11.58	83.3		46.1	15.30	14.55	9.84	2.66	6.32	0.51	0.03	2.52	0.19	0.20	0.03
40210820		0.16			45.3	18.85	12.20	9.61	2.07	7.65	1.07	0.34	1.36	0.15	0.16	0.05
40210821		11.60	84.7	93.5	47.9	16.30	14.00	10.15	2.87	5.54	0.63	0.03	2.67	0.18	0.24	0.03
40210822		10.97			47.7	16.30	13.30	10.50	2.89	5.53	0.61	0.03	2.46	0.18	0.22	0.03
40210823		11.11			47.3	15.25	14.60	9.93	2.69	6.21	0.55	0.03	2.64	0.20	0.26	0.03
40210824		11.42			46.2	15.25	15.00	9.54	2.70	6.22	0.58	0.03	2.63	0.18	0.22	0.03
40210824 CRD		<0.02			46.1	15.10	14.25	9.82	2.73	6.13	0.61	0.03	2.57	0.18	0.21	0.03
40210825		11.36			47.3	15.85	13.45	10.25	2.82	5.62	0.64	0.03	2.57	0.17	0.21	0.03
40210826		11.18			46.8	15.45	14.85	9.79	3.05	5.45	0.58	0.03	2.85	0.18	0.24	0.03
40210827		11.25			46.6	15.60	13.75	10.40	3.04	5.58	0.54	0.03	2.79	0.17	0.23	0.03
40210828		11.07			46.7	15.80	13.95	10.00	2.87	5.62	0.60	0.03	2.79	0.17	0.22	0.03
40210829		5.15			47.0	15.40	14.50	10.20	2.72	6.10	0.59	0.03	2.84	0.18	0.19	0.03
40210830		5.53			46.6	15.30	14.45	10.05	2.71	6.02	0.59	0.03	2.83	0.18	0.20	0.03
40210831		11.32			46.4	14.90	14.45	10.20	2.58	6.21	0.58	0.03	2.69	0.19	0.21	0.03
40210832		11.59			45.7	14.50	15.20	9.64	2.57	6.69	0.56	0.03	2.65	0.19	0.20	0.03
40210833		10.93			46.5	15.35	14.70	10.05	2.73	5.59	0.54	0.03	2.83	0.19	0.22	0.03
40210834		11.23			46.9	15.30	15.05	9.61	2.81	5.68	0.59	0.02	2.93	0.19	0.26	0.03
40210835		11.31			46.2	14.15	16.00	8.88	2.59	7.80	0.57	0.03	2.48	0.20	0.24	0.03
40210836		11.77			45.7	13.60	16.40	8.79	2.48	8.50	0.56	0.03	2.45	0.21	0.23	0.02
40210837		11.24			47.0	14.85	14.45	9.73	2.77	5.79	0.66	0.02	2.55	0.19	0.26	0.03
40210838		11.04			47.7	14.35	16.50	9.19	2.81	6.81	0.66	0.01	2.60	0.21	0.28	0.03
40210839		11.43			46.9	14.80	15.00	9.54	2.75	6.51	0.58	0.03	2.53	0.19	0.23	0.02



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		8aO % 0.01	C % 0.01	S % 0.01	Ba ppm 0.5	Ce ppm 0.5	Cr ppm 10	Cs ppm 0.01	Dy ppm 0.05	Er ppm 0.03	Eu ppm 0.03	Ga ppm 0.1	Gd ppm 0.05	Ge ppm 5	Hf ppm 0.2	Ho ppm 0.01
40210802		0.03	0.02	0.05	229	38.6	250	0.57	5.43	3.08	1.77	22.8	5.51	<5	4.0	1.13
40210803		0.02	0.02	0.10	207	39.2	270	0.67	5.51	2.96	1.71	21.9	5.86	<5	4.0	1.12
40210804		0.02	0.01	0.10	204	38.6	250	0.69	5.27	2.87	1.76	22.8	5.73	<5	4.0	1.13
40210804 CRD		0.02	0.01	0.08	208	36.1	320	0.61	5.17	2.83	1.68	22.0	5.40	<5	3.9	1.15
40210805		0.03	0.01	0.06	271	37.4	230	0.75	5.52	2.95	1.71	22.8	5.57	<5	3.8	1.15
40210806		0.02	0.01	0.08	202	36.4	280	0.78	5.14	2.91	1.69	21.8	5.64	<5	3.7	1.07
40210807		0.02	0.18	0.09	192.0	33.6	310	0.80	4.82	2.66	1.54	20.9	4.98	<5	3.6	1.00
40210808		0.02	0.01	0.09	215	37.2	280	0.78	5.11	2.85	1.64	21.7	5.72	<5	3.8	1.07
40210809		0.02	0.01	0.07	203	35.1	240	1.03	4.79	2.63	1.68	22.9	5.05	<5	3.7	1.01
40210810		0.01	0.02	0.06	119.0	20.1	170	1.36	2.71	1.59	1.05	17.9	2.98	<5	2.1	0.63
40210811		0.02	0.01	0.06	218	39.9	240	1.09	5.49	3.27	1.82	23.0	5.93	<5	3.9	1.21
40210812		0.02	0.01	0.09	215	46.9	240	0.84	6.17	3.52	1.92	23.7	6.94	<5	4.5	1.32
40210813		0.02	0.01	0.06	187.5	36.4	290	0.57	5.12	2.86	1.63	21.4	5.49	<5	3.7	1.05
40210814		0.02	0.02	0.04	216	38.1	280	0.72	5.14	2.85	1.87	23.0	5.71	<5	3.8	1.15
40210815		0.02	0.01	0.05	183.0	34.6	270	0.63	4.88	2.65	1.62	21.8	5.02	<5	3.4	1.08
40210816		0.02	0.01	0.07	199.5	36.0	260	0.59	5.19	2.95	1.62	21.2	5.30	<5	3.7	1.09
40210817		0.02	0.01	0.06	193.0	34.7	260	0.59	4.92	2.89	1.62	21.7	5.11	<5	3.5	1.03
40210818		0.02	0.01	0.06	180.5	32.9	250	0.60	4.77	2.78	1.62	20.8	5.02	<5	3.6	1.03
40210819		0.02	0.01	0.03	185.5	35.9	230	0.67	5.01	2.74	1.56	20.9	5.38	<5	3.4	1.04
40210820		0.04	0.03	0.35	333	26.8	2470	2.36	3.54	2.05	1.29	20.0	3.51	<5	2.7	0.75
40210821		0.03	0.01	0.02	223	37.9	230	0.70	5.38	3.30	1.86	22.5	5.54	<5	3.9	1.19
40210822		0.02	0.01	0.03	210	37.0	210	0.74	5.47	2.91	1.79	22.4	5.69	<5	3.9	1.15
40210823		0.02	0.01	0.08	213	40.9	210	0.76	5.94	3.30	1.84	22.2	5.90	<5	4.1	1.23
40210824		0.02	0.01	0.09	216	40.4	220	0.98	5.81	3.40	1.80	21.7	6.10	<5	4.2	1.23
40210824 CRD		0.02	0.01	0.07	224	39.2	230	0.94	5.43	3.10	1.72	21.8	5.77	<5	3.9	1.13
40210825		0.03	0.01	0.08	231	37.6	240	0.97	5.56	3.17	1.73	20.9	5.55	<5	3.9	1.16
40210826		0.03	0.03	0.12	258	42.9	190	1.09	6.12	3.36	1.88	22.2	6.51	<5	4.4	1.24
40210827		0.03	0.10	0.08	255	39.0	210	1.02	5.96	3.24	1.77	21.5	5.83	<5	4.1	1.19
40210828		0.03	0.01	0.07	302	37.3	230	1.16	5.62	3.25	1.81	22.0	5.63	<5	3.9	1.19
40210829		0.03	0.01	0.11	236	35.2	230	0.94	5.39	3.41	1.63	21.3	5.47	<5	4.0	1.15
40210830		0.03	0.01	0.11	235	35.7	230	0.98	5.43	3.17	1.72	21.5	5.47	<5	3.8	1.14
40210831		0.02	0.02	0.12	212	36.3	250	0.78	5.72	3.18	1.74	20.5	5.32	<5	4.1	1.19
40210832		0.02	0.01	0.09	210	37.9	230	0.83	5.48	3.00	1.73	21.0	5.50	<5	3.8	1.12
40210833		0.02	0.02	0.04	228	40.0	210	0.80	5.94	3.35	1.82	22.0	6.35	<5	4.1	1.26
40210834		0.03	0.02	0.11	237	43.0	160	0.79	6.40	3.68	1.96	22.1	6.74	<5	4.7	1.30
40210835		0.02	0.02	0.09	220	41.4	190	0.93	6.01	3.40	1.68	20.2	6.05	<5	4.3	1.30
40210836		0.02	0.01	0.09	216	39.8	190	0.92	5.98	3.33	1.70	20.3	5.83	<5	3.9	1.16
40210837		0.03	0.02	0.09	252	48.6	170	0.71	6.82	3.92	2.09	22.8	7.02	<5	4.8	1.44
40210838		0.03	0.02	0.12	249	47.8	90	0.74	6.87	3.81	2.01	21.8	7.07	<5	4.9	1.44
40210839		0.02	0.01	0.10	221	41.9	200	0.66	5.96	3.54	1.87	21.1	5.98	<5	4.3	1.26



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Account: KAV

Project: EB80002676

CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40210802		18.0	0.44	11.3	22.4	5.18	13.1	5.33	2	245	0.6	0.92	1.70	0.44	0.45	262
40210803		18.5	0.42	13.9	22.4	5.19	13.8	5.41	2	234	0.7	0.88	1.72	0.44	0.47	266
40210804		18.3	0.41	11.9	21.5	5.30	13.1	5.21	2	237	0.7	0.88	1.68	0.42	0.48	266
40210804 CRD		16.9	0.41	10.6	20.7	4.78	14.2	5.33	2	240	0.6	0.88	1.54	0.40	0.46	259
40210805		17.6	0.40	11.4	21.5	5.03	13.9	5.26	1	250	0.7	0.81	1.61	0.43	0.47	257
40210806		17.0	0.39	10.8	21.2	4.88	15.0	5.27	1	255	0.6	0.84	1.57	0.38	0.46	235
40210807		15.9	0.40	10.0	19.5	4.70	14.7	4.78	1	237	0.6	0.84	1.54	0.39	0.48	246
40210808		17.5	0.43	10.2	21.1	5.06	15.4	5.29	1	254	0.7	0.88	1.73	0.39	0.48	252
40210809		16.3	0.40	10.3	19.9	4.77	18.5	5.08	1	297	0.6	0.79	1.50	0.43	0.46	240
40210810		9.6	0.22	5.8	11.2	2.70	9.2	2.82	1	266	0.4	0.48	0.95	0.21	0.30	134
40210811		18.6	0.43	11.3	23.2	5.33	18.3	5.76	2	282	0.7	0.91	1.72	0.47	0.50	210
40210812		22.0	0.51	13.3	26.9	6.19	16.1	6.37	2	250	0.8	1.07	1.94	0.50	0.63	231
40210813		17.1	0.41	10.3	20.7	4.84	11.2	5.14	1	231	0.6	0.84	1.60	0.39	0.46	222
40210814		17.9	0.42	10.7	21.6	5.16	14.5	5.58	2	268	0.6	0.90	1.72	0.42	0.51	223
40210815		16.3	0.39	9.9	20.2	4.81	10.3	4.94	1	232	0.6	0.77	1.47	0.41	0.43	252
40210816		17.0	0.39	10.4	20.9	4.71	12.6	5.02	1	232	0.6	0.84	1.61	0.40	0.47	277
40210817		16.2	0.38	10.2	19.9	4.60	12.0	5.16	1	226	0.6	0.85	1.51	0.42	0.57	341
40210818		15.6	0.39	10.8	19.3	4.53	11.2	5.05	1	221	0.7	0.80	1.47	0.39	0.44	396
40210819		16.9	0.40	10.5	20.7	4.89	12.2	5.32	1	229	0.7	0.84	1.51	0.42	0.43	355
40210820		12.8	0.26	7.3	14.9	3.69	32.9	4.10	2	388	0.4	0.55	1.17	0.27	0.34	188
40210821		17.7	0.43	11.5	22.3	5.06	15.0	5.74	1	248	0.7	0.89	1.64	0.44	0.52	331
40210822		17.5	0.42	11.5	21.8	4.98	15.2	5.55	1	248	0.7	0.94	1.65	0.45	0.49	307
40210823		19.0	0.45	12.1	24.5	5.66	12.7	5.74	1	233	0.7	0.96	1.78	0.48	0.51	326
40210824		18.8	0.44	11.6	22.3	5.29	16.0	5.63	1	225	0.6	0.96	1.98	0.52	0.47	356
40210824 CRD		18.2	0.39	11.2	22.4	5.20	17.4	5.52	1	233	0.6	0.92	1.76	0.49	0.47	350
40210825		17.5	0.39	11.6	22.3	5.11	17.5	5.59	1	241	0.6	0.97	1.83	0.47	0.45	320
40210826		20.3	0.47	12.2	24.3	5.76	17.2	6.38	1	234	0.6	1.01	2.04	0.51	0.51	428
40210827		18.2	0.44	11.5	22.8	5.29	15.4	5.83	2	224	0.6	1.02	1.85	0.53	0.48	350
40210828		17.4	0.45	11.4	22.1	5.02	16.9	5.60	2	259	0.6	0.98	1.80	0.45	0.44	351
40210829		16.4	0.43	11.2	20.3	4.78	15.6	5.48	1	239	0.6	0.90	1.66	0.44	0.42	367
40210830		16.6	0.41	11.2	20.9	4.82	16.0	5.19	2	237	0.6	0.93	1.62	0.50	0.45	360
40210831		16.8	0.45	11.0	20.9	4.93	15.0	5.55	1	223	0.6	0.90	1.74	0.51	0.44	335
40210832		17.6	0.44	11.5	22.1	5.12	14.1	5.49	1	220	0.6	0.88	1.78	0.46	0.44	321
40210833		18.4	0.46	12.3	23.2	5.51	13.9	5.88	1	232	0.6	0.97	1.98	0.49	0.52	331
40210834		20.2	0.51	13.1	24.7	5.97	14.6	6.25	1	227	0.7	1.04	1.96	0.58	0.50	357
40210835		18.9	0.44	12.0	23.5	5.54	14.1	5.76	1	202	0.6	0.97	1.94	0.52	0.70	282
40210836		18.6	0.45	12.0	23.3	5.39	14.1	5.63	1	199.0	0.6	0.93	1.79	0.50	0.57	287
40210837		22.6	0.50	13.7	27.8	6.47	16.2	7.23	2	232	0.7	1.15	2.17	0.55	0.54	297
40210838		22.2	0.51	13.6	27.5	6.49	16.1	7.02	2	221	0.7	1.15	2.28	0.62	0.56	304
40210839		19.2	0.48	12.4	24.1	5.60	13.5	6.09	1	223	0.6	1.00	1.93	0.54	0.51	294



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm 1	Y ppm 0.5	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	LOI % 0.01	Total % 0.01
40210802		<1	28.0	2.83	151	1.1	0.01	<0.005	0.021	0.001	0.05	0.7	0.01	0.04	0.98	98.13
40210803		<1	27.7	2.69	149	0.6	<0.01	<0.005	0.023	0.001	<0.05	0.6	0.01	0.06	0.76	98.09
40210804		<1	27.7	2.68	153	0.9	<0.01	<0.005	0.025	0.001	<0.05	0.7	0.01	0.05	0.78	99.68
40210804 CRD		<1	27.4	2.62	151	0.8	<0.01	<0.005	0.020	0.001	<0.05	0.7	0.01	0.05	1.00	100.03
40210805		<1	27.5	2.81	146	0.5	0.01	<0.005	0.024	0.001	<0.05	0.6	0.01	0.05	1.28	99.60
40210806		<1	26.6	2.74	144	0.6	0.01	<0.005	0.020	0.001	0.05	0.7	0.01	0.05	0.93	100.02
40210807		<1	25.7	2.60	140	0.8	0.01	<0.005	0.019	0.002	0.05	0.7	<0.01	0.07	1.13	100.11
40210808		<1	26.8	2.60	146	0.7	0.01	<0.005	0.020	0.001	0.05	0.7	0.01	0.06	1.27	100.09
40210809		1	25.4	2.53	142	0.5	<0.01	<0.005	0.019	0.001	<0.05	0.7	0.01	0.04	1.07	101.10
40210810		<1	14.4	1.40	85	0.7	0.02	<0.005	0.016	<0.001	0.05	0.4	0.01	0.04	0.82	100.34
40210811		<1	29.0	3.02	160	0.9	0.01	<0.005	0.017	0.001	<0.05	0.6	0.01	0.03	1.07	100.75
40210812		<1	32.8	3.02	175	0.4	0.01	<0.005	0.021	0.002	<0.05	0.8	0.01	0.06	0.99	100.86
40210813		<1	26.8	2.65	146	0.5	<0.01	<0.005	0.022	0.002	<0.05	0.7	0.01	0.04	0.64	99.81
40210814		<1	28.1	2.56	149	1.0	0.01	<0.005	0.022	0.001	<0.05	0.9	0.01	0.02	0.83	100.82
40210815		<1	25.6	2.59	132	0.7	0.01	<0.005	0.024	0.001	<0.05	0.8	0.01	0.04	0.61	100.15
40210816		<1	26.7	2.72	142	0.4	<0.01	<0.005	0.024	0.001	<0.05	0.7	<0.01	0.05	0.94	100.76
40210817		1	25.7	2.45	137	0.5	0.01	<0.005	0.021	0.001	<0.05	0.6	0.01	0.05	1.00	99.26
40210818		<1	25.8	2.43	134	0.6	<0.01	<0.005	0.023	0.001	<0.05	0.6	0.01	0.06	0.68	100.12
40210819		<1	26.2	2.35	137	0.6	<0.01	<0.005	0.023	0.001	<0.05	0.7	0.01	0.06	1.46	99.73
40210820		1	18.2	1.73	104	4.7	0.12	0.014	0.033	0.003	0.36	1.4	0.05	0.47	2.11	100.96
40210821		<1	28.4	2.90	152	0.7	0.01	<0.005	0.017	0.001	<0.05	0.5	0.01	0.04	1.32	101.89
40210822		1	28.0	2.86	149	0.5	0.01	<0.005	0.016	0.001	<0.05	0.6	0.01	0.04	1.36	101.13
40210823		<1	30.2	3.11	163	0.6	0.01	<0.005	0.019	0.001	0.07	0.7	0.01	0.07	1.14	100.85
40210824		1	29.0	3.00	157	0.5	0.01	<0.005	0.022	0.001	<0.05	0.6	0.01	0.07	1.02	99.62
40210824 CRD		<1	28.3	2.99	151	0.5	0.01	<0.005	0.022	0.001	<0.05	0.7	<0.01	0.07	0.91	98.69
40210825		<1	28.2	2.97	151	0.6	0.01	<0.005	0.021	0.001	<0.05	0.6	0.01	0.05	1.04	100.01
40210826		<1	31.1	3.09	166	0.7	0.01	<0.005	0.029	0.001	0.05	0.6	0.01	0.04	1.59	100.92
40210827		1	29.4	3.04	158	0.6	0.01	<0.005	0.024	0.001	0.05	0.7	0.01	0.07	2.05	100.84
40210828		<1	28.3	2.96	146	0.9	0.01	<0.005	0.025	0.002	0.14	0.9	<0.01	0.04	1.12	99.93
40210829		<1	26.9	2.79	146	0.5	0.01	<0.005	0.024	0.002	0.09	0.9	0.01	0.07	0.78	100.59
40210830		<1	27.9	2.91	141	0.5	0.01	<0.005	0.026	0.001	0.09	0.8	0.01	0.07	0.86	99.88
40210831		<1	28.3	2.98	152	0.4	0.01	<0.005	0.028	0.001	0.09	0.9	<0.01	0.07	0.82	99.31
40210832		<1	28.1	2.93	149	0.4	0.01	<0.005	0.027	0.001	0.07	0.8	0.01	0.07	0.58	98.56
40210833		1	29.7	3.21	160	1.0	0.02	<0.005	0.026	0.001	0.09	0.8	<0.01	0.09	1.14	99.92
40210834		<1	32.0	3.32	176	0.9	0.01	<0.005	0.031	0.002	0.08	1.0	<0.01	0.13	1.06	100.46
40210835		1	30.0	3.25	159	0.8	0.01	<0.005	0.028	0.001	0.07	0.9	0.01	0.09	0.65	99.84
40210836		<1	29.2	3.09	153	1.1	0.01	<0.005	0.025	0.001	0.08	0.8	0.01	0.09	0.49	99.48
40210837		<1	34.7	3.58	186	0.6	0.01	<0.005	0.029	0.001	0.05	1.0	0.01	0.06	0.95	99.28
40210838		1	35.0	3.64	191	0.6	0.01	<0.005	0.030	0.002	<0.05	1.0	<0.01	0.05	0.60	101.78
40210839		<1	30.6	3.13	161	1.9	0.01	<0.005	0.028	0.002	0.07	0.9	0.01	0.03	0.71	99.81



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24	
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001
40210802		<0.5	<5	0.5	44	164	10	<1	92	2	28	<10	110	0.001	0.010	0.014
40210803		<0.5	<5	<0.5	48	190	10	<1	104	<2	29	10	115	0.002	0.006	0.004
40210804		<0.5	<5	<0.5	50	187	10	<1	115	5	29	<10	117	0.002	<0.005	0.003
40210804 CRD		<0.5	<5	<0.5	44	152	10	<1	98	2	34	<10	104	0.002	<0.005	0.002
40210805		<0.5	<5	<0.5	43	175	20	<1	97	<2	29	<10	109	0.002	<0.005	0.001
40210806		<0.5	<5	<0.5	43	173	20	<1	94	<2	30	<10	104	0.002	<0.005	0.001
40210807		<0.5	<5	<0.5	42	180	10	<1	105	2	35	<10	105	0.001	<0.005	0.001
40210808		<0.5	<5	<0.5	38	178	20	<1	91	<2	31	<10	103	0.002	<0.005	0.001
40210809		<0.5	<5	<0.5	32	155	20	<1	62	3	28	<10	93	0.001	<0.005	0.001
40210810		<0.5	<5	<0.5	59	112	10	<1	324	<2	12	<10	86	0.001	<0.005	0.007
40210811		<0.5	<5	<0.5	34	140	20	<1	60	2	28	<10	94	0.002	<0.005	0.001
40210812		<0.5	<5	<0.5	41	177	10	<1	79	6	30	<10	119	0.003	<0.005	0.001
40210813		<0.5	<5	<0.5	46	188	10	<1	96	2	33	<10	112	0.002	0.005	0.006
40210814		<0.5	<5	<0.5	38	163	10	<1	73	<2	29	<10	104	0.002	0.005	0.007
40210815		<0.5	<5	<0.5	51	217	10	<1	108	<2	30	<10	117	0.002	0.008	0.009
40210816		<0.5	<5	<0.5	45	209	10	<1	85	4	34	<10	109	0.002	0.006	0.007
40210817		<0.5	<5	<0.5	48	212	10	<1	90	3	35	<10	111	0.001	0.009	0.008
40210818		<0.5	<5	<0.5	50	235	10	<1	94	<2	37	<10	120	0.002	0.011	0.013
40210819		<0.5	<5	<0.5	48	238	20	<1	93	<2	33	<10	119	0.002	<0.005	0.004
40210820		0.6	<5	<0.5	61	1085	40	1	678	8	18	<10	103	0.023	0.051	0.207
40210821		<0.5	<5	0.5	41	193	20	<1	77	3	31	<10	112	0.001	<0.005	0.001
40210822		<0.5	<5	<0.5	41	166	20	<1	75	2	31	<10	109	0.001	<0.005	0.005
40210823		<0.5	<5	<0.5	48	203	20	<1	91	3	35	<10	127	0.001	<0.005	0.004
40210824		<0.5	<5	<0.5	52	242	20	<1	98	<2	33	<10	127	0.002	0.005	0.005
40210824 CRD		<0.5	<5	<0.5	47	220	20	<1	90	5	35	<10	114	0.001	<0.005	0.005
40210825		<0.5	<5	<0.5	42	202	10	<1	75	<2	36	<10	109	0.001	<0.005	0.003
40210826		<0.5	<5	<0.5	44	225	20	<1	75	<2	34	<10	121	0.001	<0.005	0.003
40210827		<0.5	<5	0.5	41	192	20	<1	74	2	34	<10	112	0.001	<0.005	0.002
40210828		<0.5	<5	1.1	44	203	10	<1	80	5	34	10	119	0.001	<0.005	0.003
40210829		<0.5	<5	0.6	45	212	10	<1	84	3	35	<10	116	0.001	<0.005	0.002
40210830		<0.5	<5	0.9	47	231	10	<1	87	<2	35	<10	120	0.002	<0.005	0.003
40210831		<0.5	<5	0.8	49	209	10	<1	92	<2	37	<10	131	<0.001	0.006	0.012
40210832		<0.5	<5	0.5	49	196	10	<1	106	2	33	10	126	<0.001	<0.005	0.002
40210833		<0.5	<5	<0.5	44	190	10	<1	80	<2	33	<10	132	<0.001	<0.005	0.001
40210834		<0.5	<5	0.6	47	209	10	<1	91	2	33	10	133	0.001	<0.005	0.002
40210835		<0.5	5	0.7	58	196	10	<1	138	2	29	<10	132	0.002	<0.005	0.006
40210836		<0.5	<5	1.0	62	214	10	<1	164	4	27	<10	138	0.001	<0.005	0.008
40210837		<0.5	<5	<0.5	44	187	10	<1	73	2	33	10	127	0.001	<0.005	0.001
40210838		<0.5	<5	<0.5	54	216	10	<1	100	5	31	<10	141	0.002	0.005	0.005
40210839		<0.5	<5	0.8	50	222	10	<1	95	5	32	<10	127	0.003	0.007	0.005



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Al2O3 %	As %	CaO %	Co %	Cr %	Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %
		0.01	0.01	0.05	0.002	0.01	0.005	0.05	0.05	0.01	0.01	0.01	0.005	0.01	0.01
40210802															
40210803															
40210804															
40210804 CRD															
40210805															
40210806															
40210807															
40210808															
40210809															
40210810															
40210811															
40210812															
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40210824 CRD															
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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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Sample Description	Method Analyte Units LOR	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40210802 40210803 40210804 40210804 CRD 40210805		0.01	0.002
40210806 40210807 40210808 40210809 40210810			
40210811 40210812 40210813 40210814 40210815			
40210816 40210817 40210818 40210819 40210820			
40210821 40210822 40210823 40210824 40210824 CRD			
40210825 40210826 40210827 40210828 40210829			
40210830 40210831 40210832 40210833 40210834			
40210835 40210836 40210837 40210838 40210839			

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 Na2O %	ME-ICP06 MgO %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %
40210840		1.08			46.1	18.90	10.70	10.05	2.32	9.22	0.37	0.02	1.08	0.13	0.11	0.03
40210841		11.23			47.7	15.25	14.30	9.88	2.78	6.58	0.60	0.03	2.27	0.19	0.23	0.03
40210842		11.03			47.1	15.25	15.15	9.29	2.78	6.73	0.58	0.03	2.23	0.19	0.23	0.02
40210843		11.04			47.4	14.45	14.10	10.50	2.68	6.86	0.50	0.04	2.26	0.19	0.21	0.03
40210844		11.13			47.2	15.85	14.25	9.81	2.68	7.30	0.48	0.04	1.95	0.18	0.18	0.03
40210844 CRD		<0.02			46.9	15.90	13.90	9.81	2.68	7.19	0.47	0.04	1.94	0.18	0.19	0.03
40210845		11.13			47.4	16.75	13.35	9.57	2.78	7.39	0.49	0.04	1.71	0.17	0.19	0.03
40210846		11.19			46.8	16.55	12.45	10.20	2.63	7.64	0.42	0.04	1.46	0.16	0.15	0.03
40210847		11.00			48.0	15.90	11.90	11.30	2.72	7.12	0.43	0.06	1.63	0.16	0.16	0.03
40210848		11.07			47.1	15.50	13.60	10.05	2.74	7.10	0.50	0.04	1.73	0.18	0.19	0.03
40210849		11.16			47.0	16.30	13.50	10.20	2.64	7.37	0.45	0.04	1.66	0.17	0.16	0.03
40210850		0.16			45.4	19.10	12.50	9.71	2.14	7.74	1.10	0.34	1.37	0.14	0.15	0.05
40210851		11.03			48.3	16.70	12.70	10.90	2.65	7.53	0.43	0.05	1.52	0.16	0.14	0.03
40210852		11.43			47.6	16.20	13.25	10.40	2.69	7.55	0.45	0.04	1.61	0.17	0.16	0.03
40210853		11.24			47.3	15.50	13.70	10.30	2.58	7.75	0.44	0.05	1.69	0.18	0.17	0.03
40210854		11.27			47.3	15.10	13.75	10.55	2.55	8.03	0.41	0.05	1.68	0.18	0.15	0.03
40210855		11.35			46.8	14.85	14.85	9.84	2.57	7.83	0.47	0.03	1.93	0.19	0.19	0.03
40210856		11.46			47.1	15.55	14.25	9.85	2.56	8.17	0.47	0.04	1.78	0.18	0.19	0.03
40210857		11.59			46.7	15.10	14.25	9.45	2.56	7.86	0.45	0.04	1.74	0.19	0.20	0.03
40210858		10.92			46.5	15.35	13.15	9.65	2.63	7.25	0.50	0.04	1.73	0.17	0.21	0.03
40210859		5.12			46.4	14.55	14.10	9.22	2.59	8.42	0.39	0.03	1.74	0.18	0.20	0.03
40210860		5.52			46.5	14.50	14.25	9.15	2.65	8.52	0.45	0.04	1.64	0.18	0.21	0.03
40210861		11.63			45.6	15.25	13.35	9.29	2.43	8.15	0.49	0.04	1.55	0.17	0.16	0.03
40210862		11.72			45.0	16.00	12.75	9.16	2.41	8.20	0.44	0.03	1.51	0.16	0.17	0.03
40210863		12.03			45.3	17.65	11.45	9.64	2.19	9.74	0.32	0.04	1.02	0.14	0.11	0.03
40210864		11.56			46.1	17.75	11.45	9.95	2.29	9.28	0.34	0.04	1.12	0.14	0.12	0.03
40210864 CRD		<0.02			47.1	18.25	11.55	10.15	2.37	9.07	0.37	0.04	1.18	0.15	0.14	0.03
40210865		12.35			45.5	16.00	12.70	9.52	2.09	10.50	0.36	0.04	1.21	0.16	0.14	0.03
40210866		12.26			45.9	14.75	13.70	9.33	2.15	11.00	0.39	0.04	1.53	0.17	0.17	0.02
40210867		12.36	75.1	88.8	46.0	16.90	12.15	9.65	2.16	10.40	0.39	0.03	1.28	0.15	0.15	0.03
40210868		11.88			46.3	20.0	9.75	10.80	2.27	8.01	0.33	0.15	1.17	0.12	0.13	0.04
40210869		11.66			45.5	18.25	11.60	9.64	2.02	11.40	0.27	0.10	0.86	0.14	0.11	0.03
40210870		1.18			46.1	18.00	11.25	9.62	2.22	10.10	0.36	0.03	1.03	0.14	0.12	0.03
40210871		12.06			44.9	18.20	11.15	9.59	2.03	10.95	0.27	0.03	0.79	0.14	0.11	0.03
40210872		11.31			44.7	18.00	11.35	9.09	2.07	10.00	0.45	0.24	1.08	0.14	0.12	0.04
40210873		7.58			45.0	18.50	11.25	9.57	2.02	9.93	0.39	0.45	0.99	0.13	0.12	0.03
40210874		4.33			44.8	19.85	10.35	9.07	1.98	8.97	0.55	1.07	0.80	0.11	0.08	0.03
40210875		5.67			43.2	19.25	11.10	8.76	1.74	9.04	0.44	1.03	0.75	0.12	0.08	0.04
40210876		6.02			47.5	17.95	11.10	7.02	2.05	7.77	0.83	0.86	0.74	0.10	0.09	0.03
40210877		5.91			42.1	19.80	12.15	8.68	1.89	8.81	0.46	1.95	0.93	0.12	0.11	0.04



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method	ME-ICP06	C-IR07	S-IR08	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
	Analyte Units LOR	BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40210840		0.01	0.02	0.06	128.5	21.3	170	1.83	2.99	1.63	1.09	18.0	3.05	<5	2.1	0.61
40210841		0.02	0.01	0.09	222	41.2	180	0.66	6.03	3.57	1.95	21.5	6.14	<5	4.0	1.29
40210842		0.02	0.01	0.09	218	41.3	200	0.68	5.69	3.28	1.76	21.2	5.94	<5	4.1	1.21
40210843		0.02	0.01	0.06	200	37.9	280	0.60	5.95	3.45	1.70	20.6	5.84	<5	4.4	1.18
40210844		0.02	0.02	0.06	191.0	32.9	260	0.62	4.75	2.74	1.53	20.3	4.89	<5	3.2	0.97
40210844 CRD		0.02	0.01	0.06	187.5	34.7	260	0.69	5.01	2.69	1.61	20.1	4.99	<5	3.7	1.01
40210845		0.02	0.01	0.08	188.5	33.4	290	0.58	4.91	2.72	1.56	20.7	4.90	<5	3.3	0.97
40210846		0.02	0.01	0.08	166.0	27.1	320	0.58	4.07	2.08	1.30	19.0	4.00	<5	3.0	0.85
40210847		0.02	0.01	0.08	157.5	29.2	420	0.47	4.49	2.60	1.44	19.9	4.89	<5	3.0	0.94
40210848		0.02	0.01	0.07	191.5	37.3	260	0.61	4.99	2.86	1.60	19.9	5.17	<5	3.5	1.04
40210849		0.02	0.02	0.07	166.0	28.8	300	0.63	4.17	2.52	1.45	19.8	4.15	<5	2.7	0.89
40210850		0.04	0.04	0.38	333	26.9	2390	2.37	3.63	2.01	1.20	19.8	3.89	<5	2.5	0.76
40210851		0.02	0.01	0.09	156.0	25.2	350	0.57	4.02	2.31	1.33	18.9	4.04	<5	3.0	0.79
40210852		0.02	0.01	0.09	170.5	29.2	290	0.63	4.16	2.42	1.37	19.4	4.48	<5	3.0	0.87
40210853		0.02	0.02	0.10	170.5	31.0	330	0.62	4.49	2.69	1.44	19.7	4.61	<5	3.1	0.96
40210854		0.02	0.01	0.09	159.5	27.9	360	0.56	4.07	2.60	1.29	19.2	4.54	<5	3.1	0.86
40210855		0.02	0.01	0.10	187.0	34.4	240	0.69	5.08	2.97	1.60	20.4	5.06	<5	3.6	1.07
40210856		0.02	0.02	0.09	179.5	32.5	260	0.75	4.84	2.70	1.52	19.6	5.02	<5	3.4	0.96
40210857		0.02	0.01	0.09	191.5	34.4	270	0.70	5.02	3.06	1.59	22.8	5.18	<5	3.5	0.94
40210858		0.02	0.02	0.08	214	34.2	300	0.70	5.19	2.94	1.51	22.9	5.36	<5	3.5	1.01
40210859		0.02	0.01	0.06	172.0	34.6	250	0.78	5.21	2.86	1.54	21.7	5.33	<5	3.6	0.98
40210860		0.02	0.02	0.06	177.0	36.5	250	0.77	5.03	2.97	1.54	21.7	5.55	<5	3.5	0.94
40210861		0.02	0.01	0.06	170.5	28.6	250	0.71	4.26	2.52	1.33	20.4	4.18	<5	2.9	0.76
40210862		0.02	0.02	0.07	168.0	27.4	200	0.67	4.14	2.39	1.33	20.1	4.03	<5	2.8	0.75
40210863		0.01	0.01	0.04	127.0	19.2	260	0.70	2.84	1.58	0.98	19.1	3.00	<5	1.9	0.50
40210864		0.01	0.01	0.04	142.0	23.2	270	0.75	3.34	1.85	1.17	20.8	3.41	<5	2.3	0.60
40210864 CRD		0.02	0.01	0.03	134.0	21.8	240	0.75	3.01	1.79	1.08	19.7	3.40	<5	2.2	0.59
40210865		0.01	0.01	0.04	139.5	22.2	300	0.71	3.28	1.84	1.09	18.7	3.40	<5	2.2	0.59
40210866		0.02	0.01	0.05	153.0	27.3	240	0.74	4.10	2.34	1.29	19.5	4.33	<5	2.7	0.76
40210867		0.02	0.01	0.10	140.5	23.5	200	1.16	3.47	2.05	1.14	18.7	3.56	<5	2.4	0.67
40210868		0.01	0.01	0.03	120.5	20.6	1060	0.88	2.86	1.85	1.04	19.9	3.30	<5	1.9	0.55
40210869		0.01	0.01	0.06	109.0	16.8	750	0.84	2.48	1.38	0.94	18.5	2.37	<5	1.7	0.47
40210870		0.01	0.02	0.05	134.5	20.4	190	1.53	3.13	1.59	1.03	20.2	3.11	<5	2.0	0.56
40210871		0.01	0.02	0.05	110.5	16.6	250	0.83	2.34	1.39	0.90	18.5	2.39	<5	1.6	0.44
40210872		0.01	0.02	0.06	124.5	17.7	1660	1.61	2.48	1.44	0.90	19.0	2.72	<5	1.8	0.44
40210873		0.01	0.01	0.06	126.5	19.0	3450	1.39	2.62	1.44	0.93	21.1	2.73	<5	1.8	0.49
40210874		0.01	0.02	0.18	124.5	17.6	8210	2.05	2.10	1.26	0.81	23.3	2.06	<5	1.5	0.39
40210875		0.01	0.02	0.43	110.5	15.0	7750	2.85	1.79	1.02	0.83	21.7	1.89	<5	1.5	0.34
40210876		0.02	0.02	0.45	190.0	25.2	6220	2.93	2.55	1.61	0.86	22.8	2.61	<5	2.1	0.45
40210877		0.01	0.05	0.48	105.0	16.3	>10000	1.92	2.24	1.32	0.84	25.5	2.12	<5	1.6	0.38



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
40210840		10.0	0.24	5.7	11.8	2.84	10.3	2.90	1	263	0.2	0.50	0.86	0.25	0.23	125
40210841		18.9	0.47	12.1	22.9	5.51	14.1	5.81	2	233	0.6	1.05	1.82	0.52	0.44	264
40210842		19.0	0.43	11.8	23.7	5.41	14.0	5.88	1	222	0.6	0.96	1.94	0.46	0.55	268
40210843		17.4	0.46	10.7	21.9	5.05	12.6	6.12	1	210	0.5	0.96	1.86	0.54	0.53	307
40210844		15.5	0.39	9.6	18.9	4.47	11.7	5.24	1	227	0.4	0.82	1.43	0.43	0.37	243
40210844 CRD		16.3	0.38	9.5	19.5	4.62	11.0	4.76	1	228	0.5	0.83	1.48	0.46	0.40	250
40210845		15.5	0.38	9.3	18.5	4.52	11.3	4.76	1	234	0.4	0.80	1.55	0.41	0.39	205
40210846		12.5	0.31	7.5	16.0	3.68	9.7	4.31	1	232	0.3	0.73	1.21	0.37	0.30	198
40210847		13.5	0.34	7.9	17.0	3.93	10.5	4.42	1	215	0.3	0.74	1.25	0.40	0.30	244
40210848		17.7	0.38	9.4	20.6	4.83	12.4	5.01	1	220	0.4	0.83	1.92	0.44	0.37	227
40210849		13.5	0.33	7.8	16.8	3.90	10.5	4.18	1	224	0.3	0.67	1.30	0.37	0.29	226
40210850		12.7	0.27	7.1	15.0	3.58	34.2	3.67	2	381	0.3	0.63	1.28	0.29	0.33	189
40210851		11.8	0.31	6.9	14.6	3.43	9.2	3.80	1	224	0.3	0.64	1.15	0.34	0.26	211
40210852		13.5	0.33	7.9	17.1	4.01	10.0	4.39	1	225	0.4	0.70	1.34	0.35	0.32	220
40210853		14.4	0.34	8.3	18.3	4.31	9.8	4.74	1	215	0.4	0.76	1.38	0.38	0.30	222
40210854		12.7	0.35	7.9	16.5	3.84	9.3	4.33	1	210	0.4	0.69	1.28	0.37	0.29	242
40210855		16.0	0.38	9.7	19.3	4.59	11.0	5.04	1	216	0.5	0.83	1.58	0.40	0.39	245
40210856		15.1	0.36	9.0	18.8	4.45	10.6	5.18	1	219	0.5	0.82	1.53	0.39	0.35	216
40210857		15.8	0.37	9.8	20.4	4.73	10.6	4.85	1	238	0.5	0.82	1.45	0.41	0.37	209
40210858		16.3	0.40	9.6	21.0	4.69	12.8	5.08	1	237	0.5	0.86	1.69	0.42	0.46	224
40210859		16.1	0.41	10.4	20.9	4.74	9.9	4.99	1	209	0.6	0.86	1.62	0.43	0.40	212
40210860		17.2	0.42	10.2	21.8	5.01	10.1	5.47	1	203	0.5	0.86	1.73	0.43	0.41	203
40210861		13.3	0.34	8.3	17.2	3.93	10.7	4.13	1	217	0.4	0.66	1.30	0.37	0.32	181
40210862		12.7	0.31	8.1	16.1	3.81	9.7	3.91	1	222	0.4	0.69	1.16	0.34	0.30	167
40210863		9.0	0.22	5.4	11.7	2.63	7.0	2.89	1	242	0.3	0.47	0.86	0.24	0.18	121
40210864		10.8	0.26	6.4	13.5	3.23	8.4	3.48	1	262	0.3	0.55	0.94	0.30	0.24	138
40210864 CRD		10.1	0.23	6.3	13.3	3.02	8.2	3.25	1	237	0.3	0.53	0.98	0.27	0.23	133
40210865		10.4	0.26	6.2	13.4	3.05	8.5	3.26	1	220	0.3	0.54	0.99	0.29	0.24	145
40210866		12.8	0.32	8.0	16.8	3.82	9.6	4.26	1	211	0.4	0.71	1.17	0.35	0.32	184
40210867		11.1	0.28	6.6	14.0	3.33	9.2	3.60	1	224	0.3	0.55	1.12	0.29	0.26	141
40210868		9.4	0.25	6.2	12.6	2.89	8.8	2.91	1	279	0.3	0.50	0.98	0.26	0.24	150
40210869		8.0	0.19	4.7	10.0	2.32	6.2	2.42	1	250	0.2	0.38	0.68	0.20	0.17	113
40210870		9.6	0.24	5.7	11.9	2.75	10.5	3.09	1	287	0.3	0.48	0.95	0.27	0.25	125
40210871		7.8	0.21	4.5	9.8	2.31	6.3	2.28	1	265	0.2	0.39	0.69	0.20	0.17	92
40210872		8.4	0.18	5.1	10.7	2.51	10.8	2.58	1	290	0.3	0.40	0.81	0.20	0.20	162
40210873		9.0	0.19	5.3	11.3	2.61	11.1	2.75	1	290	0.3	0.44	0.88	0.22	0.24	188
40210874		8.5	0.18	4.1	10.2	2.43	19.5	2.15	1	281	0.2	0.36	1.39	0.16	0.51	225
40210875		7.2	0.16	3.7	8.5	1.93	14.8	1.96	1	317	0.2	0.31	0.94	0.15	0.31	225
40210876		12.3	0.22	5.1	13.2	3.29	30.1	2.96	1	248	0.3	0.42	2.39	0.23	1.19	244
40210877		7.7	0.16	4.3	9.8	2.23	14.2	2.37	1	297	0.2	0.36	0.99	0.19	0.31	303



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15097423

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06
		W ppm 1	Y ppm 0.5	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	LOI % 0.01	Total % 0.01
40210840		<1	14.9	1.50	81	0.7	0.03	<0.005	0.020	0.001	0.18	0.5	0.01	0.06	1.07	100.11
40210841		<1	30.0	3.21	158	0.8	0.01	<0.005	0.028	0.002	0.06	0.9	0.01	0.03	0.58	100.44
40210842		<1	29.2	3.02	162	0.8	0.02	<0.005	0.030	0.002	0.05	1.0	0.01	0.03	0.59	100.19
40210843		<1	30.2	3.06	167	0.8	0.01	<0.005	0.026	0.001	0.08	1.0	0.02	0.03	0.95	100.19
40210844		<1	24.2	2.35	124	0.9	0.01	<0.005	0.026	0.001	0.06	0.8	0.01	0.04	0.72	100.69
40210844 CRD		<1	24.6	2.40	134	0.9	0.01	<0.005	0.024	0.002	0.05	0.8	0.01	0.03	0.75	100.00
40210845		<1	24.3	2.59	131	0.6	0.01	<0.005	0.022	0.001	0.06	0.9	0.01	0.04	0.62	100.51
40210846		<1	21.0	2.07	112	1.1	0.01	<0.005	0.021	0.001	0.06	0.5	0.01	0.03	0.58	99.13
40210847		1	23.2	2.47	111	1.0	0.01	<0.005	0.020	0.001	0.05	0.7	0.02	0.03	0.86	100.29
40210848		<1	25.5	2.37	130	1.0	0.01	<0.005	0.024	0.001	<0.05	0.6	0.01	0.04	1.04	99.82
40210849		<1	21.3	2.22	108	0.7	0.01	<0.005	0.023	0.001	0.11	0.8	0.01	0.04	0.72	100.26
40210850		<1	17.7	1.81	99	3.7	0.14	0.011	0.034	0.003	0.31	1.3	0.06	0.47	1.95	101.73
40210851		<1	19.6	1.97	109	0.5	0.01	<0.005	0.022	0.001	<0.05	0.7	0.01	0.04	0.49	101.62
40210852		<1	21.5	2.19	120	0.6	0.01	<0.005	0.025	0.001	<0.05	0.7	0.01	0.03	0.45	100.62
40210853		<1	23.7	2.42	120	0.5	0.01	<0.005	0.025	0.001	<0.05	0.6	0.01	0.03	0.45	100.16
40210854		<1	22.2	2.25	110	1.0	0.01	<0.005	0.023	0.001	<0.05	0.5	0.02	0.03	0.59	100.39
40210855		<1	25.7	2.64	141	0.7	0.01	<0.005	0.025	0.001	<0.05	0.7	0.01	0.04	0.35	99.95
40210856		<1	24.2	2.44	129	0.5	0.01	<0.005	0.023	0.001	0.06	0.8	0.01	0.05	0.60	100.79
40210857		<1	26.9	2.79	139	0.5	0.01	<0.005	0.021	0.001	<0.05	0.8	0.01	0.04	0.25	98.84
40210858		<1	27.0	2.68	140	0.7	0.01	<0.005	0.021	0.001	<0.05	0.7	0.01	0.04	1.02	98.25
40210859		<1	27.5	2.83	147	0.5	0.01	<0.005	0.025	0.001	<0.05	0.8	0.02	0.05	0.82	98.69
40210860		<1	27.9	2.96	144	0.7	0.01	<0.005	0.024	0.001	<0.05	0.9	0.02	0.05	0.89	99.03
40210861		<1	22.0	2.28	116	1.1	0.01	<0.005	0.024	0.001	<0.05	0.7	0.01	0.05	0.63	97.16
40210862		<1	21.3	2.05	111	0.7	0.01	<0.005	0.021	0.001	<0.05	0.6	<0.01	0.05	0.63	96.51
40210863		<1	14.7	1.49	78	2.2	0.01	<0.005	0.016	0.001	0.06	0.5	0.01	0.03	0.37	98.01
40210864		<1	17.7	1.87	91	1.9	0.01	<0.005	0.019	0.001	0.07	0.6	0.02	0.03	0.47	99.09
40210864 CRD		<1	16.9	1.69	85	1.8	0.01	<0.005	0.019	0.001	0.13	0.6	0.01	0.03	0.53	100.95
40210865		<1	17.8	1.87	91	4.5	0.01	<0.005	0.023	0.001	0.09	0.5	0.01	0.04	0.69	98.95
40210866		<1	22.0	2.29	106	0.9	0.01	<0.005	0.019	0.001	<0.05	0.7	0.01	0.04	0.59	99.76
40210867		<1	18.3	1.78	99	1.3	0.02	<0.005	0.022	0.001	0.06	0.8	0.01	0.04	0.75	100.06
40210868		<1	16.2	1.50	77	2.7	0.01	<0.005	0.017	0.001	0.07	0.5	<0.01	0.02	0.98	100.06
40210869		<1	12.9	1.35	66	0.3	0.01	<0.005	0.018	0.001	<0.05	0.6	0.01	0.02	0.43	100.36
40210870		<1	15.4	1.54	82	0.7	0.02	<0.005	0.015	<0.001	<0.05	0.5	0.02	0.04	0.83	99.84
40210871		<1	12.6	1.20	70	0.2	0.02	<0.005	0.016	0.001	<0.05	0.5	0.01	0.02	0.51	98.71
40210872		1	13.1	1.32	77	0.3	0.01	<0.005	0.016	0.001	<0.05	0.5	0.02	0.22	1.65	98.94
40210873		<1	14.2	1.34	71	1.2	0.02	<0.005	0.016	0.001	0.05	0.6	0.03	0.06	0.98	99.37
40210874		<1	11.1	1.19	62	3.6	0.11	<0.005	0.022	0.003	0.14	1.2	0.08	0.16	1.49	99.16
40210875		<1	9.5	1.02	59	8.1	0.14	<0.005	0.028	0.006	0.13	2.0	0.11	0.35	2.78	98.34
40210876		1	13.3	1.49	82	26.8	0.27	<0.005	0.033	0.006	0.19	2.0	0.15	0.21	2.61	98.67
40210877		<1	11.7	1.18	64	7.5	0.12	<0.005	0.045	0.005	0.21	1.7	0.09	0.33	1.86	98.91

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.001	0.005	0.001
40210840		<0.5	<5	<0.5	56	111	10	<1	285	2	12	<10	95	0.001	<0.005	0.006
40210841		<0.5	<5	0.5	50	224	10	<1	89	5	33	<10	120	0.002	0.010	0.008
40210842		<0.5	<5	0.8	50	245	10	<1	92	2	29	10	128	0.002	0.011	0.008
40210843		<0.5	<5	0.5	48	222	10	<1	83	3	40	<10	120	0.002	0.009	0.007
40210844		<0.5	<5	<0.5	56	220	10	<1	112	<2	29	<10	122	0.003	0.017	0.014
40210844 CRD		<0.5	<5	<0.5	49	207	10	<1	108	3	28	<10	114	0.004	0.017	0.017
40210845		<0.5	<5	0.5	49	197	10	<1	106	<2	23	<10	102	0.006	0.018	0.010
40210846		<0.5	<5	0.6	48	203	10	<1	111	4	26	<10	94	0.007	0.033	0.025
40210847		<0.5	<5	<0.5	44	205	10	<1	84	2	36	<10	89	0.006	0.015	0.008
40210848		<0.5	6	0.6	52	229	10	<1	97	5	32	<10	118	0.003	0.010	0.008
40210849		<0.5	<5	0.6	51	240	10	<1	103	3	28	<10	108	0.006	0.031	0.021
40210850		0.5	7	0.5	63	1120	40	1	682	5	18	<10	104	0.026	0.042	0.222
40210851		<0.5	<5	0.5	51	236	10	<1	109	<2	31	<10	98	0.008	0.010	0.007
40210852		<0.5	<5	0.5	52	210	10	<1	109	3	30	<10	102	0.006	0.015	0.012
40210853		<0.5	<5	<0.5	54	242	10	<1	116	<2	31	<10	108	0.006	0.014	0.010
40210854		<0.5	<5	0.6	53	231	10	<1	112	<2	34	<10	103	0.006	0.014	0.013
40210855		<0.5	<5	0.8	53	237	10	<1	113	3	30	<10	109	0.005	0.017	0.010
40210856		<0.5	<5	0.5	55	215	10	<1	129	<2	28	<10	108	0.005	0.019	0.016
40210857		<0.5	<5	<0.5	53	217	10	<1	130	3	27	<10	110	0.004	0.021	0.020
40210858		<0.5	<5	0.7	49	231	10	<1	127	<2	30	<10	107	0.006	0.007	0.005
40210859		<0.5	<5	<0.5	56	208	10	<1	156	4	28	<10	111	0.004	0.012	0.011
40210860		<0.5	<5	0.6	56	210	10	<1	159	<2	28	10	115	0.004	0.011	0.011
40210861		<0.5	<5	0.7	55	200	10	<1	171	2	25	10	105	0.004	0.010	0.009
40210862		<0.5	<5	<0.5	56	167	10	<1	198	2	22	<10	107	0.002	0.006	0.008
40210863		<0.5	5	<0.5	61	119	10	<1	285	<2	15	<10	95	0.001	0.007	0.007
40210864		<0.5	<5	<0.5	58	133	10	<1	276	<2	18	<10	93	0.002	0.008	0.010
40210864 CRD		<0.5	<5	<0.5	58	136	10	<1	266	<2	18	<10	97	0.002	0.008	0.009
40210865		<0.5	<5	<0.5	67	200	10	<1	408	<2	21	<10	111	0.003	0.008	0.017
40210866		<0.5	<5	<0.5	66	203	10	1	417	<2	23	<10	111	0.002	0.007	0.013
40210867		<0.5	<5	<0.5	64	353	10	<1	462	<2	20	<10	99	0.003	0.007	0.034
40210868		<0.5	<5	<0.5	47	102	10	<1	299	<2	15	<10	81	0.001	0.005	0.012
40210869		<0.5	5	<0.5	68	273	10	<1	519	<2	12	<10	85	0.008	0.024	0.061
40210870		<0.5	<5	<0.5	58	112	10	<1	323	<2	12	<10	91	0.001	<0.005	0.007
40210871		<0.5	<5	<0.5	69	147	10	<1	452	<2	12	<10	82	0.002	0.006	0.014
40210872		<0.5	<5	<0.5	61	168	30	1	416	<2	13	<10	98	0.003	0.009	0.031
40210873		<0.5	<5	<0.5	63	389	20	<1	486	<2	14	<10	103	0.009	0.029	0.114
40210874		<0.5	<5	<0.5	64	930	30	<1	814	<2	12	<10	105	0.017	0.055	0.255
40210875		0.6	8	<0.5	86	1790	40	1	1290	<2	12	<10	114	0.034	0.085	0.324
40210876		0.6	30	<0.5	84	1935	50	1	1415	3	15	<10	120	0.033	0.066	0.397
40210877		0.7	6	<0.5	94	1915	40	<1	1335	<2	12	<10	164	0.028	0.083	0.402



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81	ME-ICP81
		Al2O3 %	As %	CaO %	Co %	Cr %	Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %
40210840 40210841 40210842 40210843 40210844		0.01	0.01	0.05	0.002	0.01	0.005	0.05	0.05	0.1	0.01	0.01	0.005	0.01	0.01	0.2
40210844 CRD 40210845 40210846 40210847 40210848																
40210849 40210850 40210851 40210852 40210853																
40210854 40210855 40210856 40210857 40210858																
40210859 40210860 40210861 40210862 40210863																
40210864 40210864 CRD 40210865 40210866 40210867																
40210868 40210869 40210870 40210871 40210872																
40210873 40210874 40210875 40210876 40210877																

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-ICP81	ME-ICP81
		TiO2 %	Zn %
40210840		0.01	0.002
40210841			
40210842			
40210843			
40210844			
40210844 CRD			
40210845			
40210846			
40210847			
40210848			
40210849			
40210850			
40210851			
40210852			
40210853			
40210854			
40210855			
40210856			
40210857			
40210858			
40210859			
40210860			
40210861			
40210862			
40210863			
40210864			
40210864 CRD			
40210865			
40210866			
40210867			
40210868			
40210869			
40210870			
40210871			
40210872			
40210873			
40210874			
40210875			
40210876			
40210877			

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40210878		5.93	0.01	0.01	41.5	19.30	12.60	9.55	1.87	8.82	0.35	1.55	1.13	0.13	0.11	0.04
40210879		5.74			40.9	18.85	13.60	9.03	1.84	9.47	0.33	1.61	1.06	0.14	0.11	0.03
40210880		0.16			42.9	17.90	13.75	9.18	2.09	7.63	0.65	0.31	1.24	0.14	0.15	0.04
40210881		6.02			43.2	19.05	12.00	9.65	1.98	9.20	0.42	1.00	1.07	0.13	0.12	0.04
40210882		6.27			42.3	18.00	13.30	9.46	1.96	8.70	0.43	0.30	0.91	0.12	0.11	0.04
40210883		5.97			39.7	19.05	13.85	8.36	1.83	8.99	0.44	2.33	1.20	0.14	0.09	0.05
40210884		5.84			45.7	16.50	12.35	8.05	1.80	9.41	0.65	0.05	0.95	0.14	0.11	0.04
40210884 CRD		<0.02			45.2	16.25	12.30	8.01	1.78	9.31	0.63	0.05	0.95	0.14	0.13	0.04
40210885		5.76			50.5	14.05	15.40	3.69	1.36	7.24	1.92	0.06	0.87	0.11	0.10	0.05
40210886		3.53			54.1	14.55	10.85	6.92	1.77	5.57	2.51	0.04	0.96	0.17	0.07	0.04
40210890		2.56			42.3	14.35	24.6	3.56	1.51	4.74	1.28	0.04	1.01	0.09	0.11	0.03

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40210878		0.01	0.02	0.72	107.0	18.2	>10000	1.60	2.80	1.57	0.96	26.2	2.58	<5	1.6	0.48
40210879		0.01	0.02	0.79	101.0	17.2	>10000	1.27	2.30	1.27	0.82	24.1	2.37	<5	1.6	0.41
40210880		0.02	0.03	0.93	171.5	25.3	2330	2.53	3.52	1.87	1.23	22.4	3.45	<5	2.5	0.63
40210881		0.01	0.02	0.49	115.5	17.6	6900	1.29	2.52	1.52	0.94	21.9	2.78	<5	1.9	0.48
40210882		0.01	0.01	1.59	114.0	17.8	2310	1.24	2.57	1.58	0.90	20.3	2.69	<5	1.9	0.50
40210883		0.01	0.01	0.59	110.5	14.8	>10000	1.52	2.23	1.40	0.83	27.0	2.19	<5	1.6	0.41
40210884		0.02	0.02	0.67	178.5	22.8	370	2.76	3.10	1.80	1.06	19.4	2.82	<5	1.8	0.55
40210884 CRD		0.02	0.02	0.68	180.5	26.1	360	2.76	2.94	1.79	1.27	19.4	3.23	<5	2.0	0.56
40210885		0.03	0.03	1.01	321	34.5	480	4.74	2.82	1.82	1.33	19.3	3.25	<5	2.5	0.57
40210886		0.05	0.02	0.19	471	29.8	250	3.35	2.73	1.88	1.30	18.0	2.85	<5	2.1	0.53
40210890		0.06	0.02	5.81	586	31.5	290	3.56	2.73	1.74	1.31	19.9	2.78	<5	2.4	0.50

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40210878		8.4	0.20	5.2	11.0	2.49	10.3	2.84	1	315	0.3	0.47	0.75	0.23	0.16	316
40210879		8.2	0.18	4.4	9.9	2.36	9.2	2.42	1	260	0.2	0.37	0.84	0.19	0.20	298
40210880		11.9	0.27	7.2	15.4	3.48	22.7	3.69	2	371	0.4	0.55	1.16	0.28	0.41	186
40210881		8.3	0.20	5.0	10.6	2.43	10.7	2.63	1	301	0.3	0.41	0.74	0.21	0.17	221
40210882		8.1	0.19	4.8	10.7	2.41	12.4	2.51	1	301	0.2	0.44	0.81	0.22	0.19	156
40210883		7.0	0.18	4.1	8.8	2.06	11.3	2.34	1	415	0.2	0.36	0.79	0.18	0.23	395
40210884		10.9	0.24	6.0	12.8	3.01	20.7	3.14	1	371	0.3	0.48	1.39	0.25	0.43	124
40210884 CRD		12.3	0.23	9.5	14.4	3.52	20.7	3.43	1	372	0.3	0.50	1.55	0.23	0.45	126
40210885		17.3	0.31	6.7	17.4	4.38	77.2	3.53	1	387	0.4	0.50	3.38	0.28	1.41	275
40210886		15.4	0.28	6.1	14.8	3.76	88.7	3.12	1	351	0.3	0.44	3.20	0.26	1.32	168
40210890		16.7	0.25	7.4	15.8	4.07	55.2	3.11	1	228	0.4	0.46	2.93	0.27	1.28	187

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
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Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40210878		<1	14.2	1.49	66	0.4	0.20	<0.005	0.029	0.007	<0.05	2.5	0.13	0.06	1.49	98.45
40210879		<1	12.2	1.23	62	0.3	0.25	<0.005	0.040	0.008	<0.05	3.1	0.19	0.05	0.97	97.95
40210880		<1	18.4	1.80	103	6.9	0.44	0.009	0.050	0.008	0.32	2.9	0.18	0.31	1.39	97.39
40210881		<1	13.5	1.30	74	0.4	0.23	<0.005	0.033	0.003	<0.05	1.9	0.11	0.17	1.08	98.95
40210882		<1	13.4	1.38	77	0.8	0.54	<0.005	0.068	0.015	<0.05	5.1	0.34	0.23	1.24	96.88
40210883		<1	11.8	1.20	65	3.8	0.20	<0.005	0.028	0.007	<0.05	2.1	0.12	0.69	1.74	97.78
40210884		<1	15.7	1.60	72	2.4	0.44	<0.005	0.037	0.008	0.05	2.0	0.12	1.70	3.07	98.84
40210884 CRD		<1	15.9	1.60	79	2.7	0.45	<0.005	0.036	0.008	0.06	2.0	0.14	1.72	3.20	98.01
40210885		1	16.1	1.91	99	7.4	0.50	0.022	0.061	0.008	0.16	2.2	0.13	1.72	2.84	98.22
40210886		1	16.1	1.68	82	13.7	0.81	0.016	0.020	0.002	0.22	1.2	0.12	1.48	2.05	99.65
40210890		1	14.9	1.64	88	24.4	0.40	0.027	0.035	0.012	0.50	7.4	0.13	1.90	4.17	97.85



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
		0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.001	0.005	0.001
40210878		0.9	<5	0.5	100	2730	20	1	1765	<2	16	<10	135	0.044	0.092	0.434
40210879		1.1	<5	<0.5	104	3400	20	<1	2080	<2	13	<10	129	0.061	0.113	0.522
40210880		1.4	7	0.5	96	3880	30	4	1975	2	17	<10	111	0.079	0.143	0.783
40210881		0.6	<5	<0.5	85	1790	30	1	1275	<2	15	<10	107	0.027	0.059	0.278
40210882		2.2	<5	0.6	135	6270	30	<1	3150	<2	14	<10	91	0.087	0.134	0.683
40210883		0.7	5	<0.5	107	2350	50	<1	1550	<2	14	<10	155	0.032	0.087	0.360
40210884		0.6	<5	0.7	93	1590	60	<1	1250	24	18	<10	102	0.036	0.074	0.135
40210884 CRD		0.6	<5	<0.5	90	1620	60	<1	1235	11	16	<10	97	0.030	0.057	0.132
40210885		0.9	17	1.0	129	2140	80	7	1260	16	27	<10	176	0.026	0.046	0.117
40210886		<0.5	13	<0.5	60	940	50	1	660	11	22	<10	151	0.017	0.039	0.120
40210890		0.9	27	0.8	344	2940	60	9	2490	11	23	<10	150	0.036	0.033	0.107

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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		Al2O3 %	As %	CaO %	Co %	Cr %	Cu %	Fe %	Fe2O3 %	K %	MgO %	MnO %	Ni %	Pb %	S %	SiO2 %
40210878 40210879 40210880 40210881 40210882		0.01	0.01	0.05	0.002	0.01	0.005	0.05	0.05	0.1	0.01	0.01	0.005	0.01	0.01	
40210883 40210884 40210884 CRD 40210885 40210886																
40210890		14.55	<0.01	3.43	0.034	0.03	0.290	17.55	25.1	1.0	4.54	0.11	0.246	<0.01	5.91	43.6

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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-ICP81 TiO2 %	ME-ICP81 Zn %
40210878 40210879 40210880 40210881 40210882		0.01	0.002
40210883 40210884 40210884 CRD 40210885 40210886			
40210890		1.08	0.016

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 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15097423

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.			
	BAG-04	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-32	PUL-32d
	PUL-QC	SPL-21	SPL-21d	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	C-IR07	ME-4ACD81	ME-ICP06	ME-ICP81
	ME-MS42	ME-MS81	OA-GRA05	PGM-ICP24
	S-IR08	TOT-ICP06		



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Finalized Date: 27-JUL-2015
 Account: KAV

CERTIFICATE TB15099047

Project: EB80002677
 P.O. No.: 3101202290
 This report is for 88 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 7-JUL-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER
 STEVE HOVIS

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

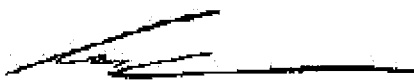
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

To: RIO TINTO EXPLORATION CANADA INC.
 ATTN: BRIAN GOLDNER
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS TB15099047

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 Na2O %	ME-ICP06 MgO %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %
Sample Description	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40210891	1.14	76.1	87.6	45.4	18.35	10.50	9.93	2.17	9.52	0.39	0.03	1.03	0.13	0.11	0.03
40210892	5.16			66.5	13.30	7.41	1.30	2.41	2.60	2.51	0.02	0.62	0.05	0.10	0.01
40210893	5.62			68.6	14.25	6.59	0.52	2.61	2.36	2.63	0.02	0.66	0.03	0.13	0.01
40210894	5.50			70.9	12.20	6.55	0.45	2.75	1.86	2.48	0.02	0.52	0.04	0.10	0.01
40210895	5.04			67.9	14.60	6.65	0.53	2.35	2.28	2.45	0.02	0.68	0.03	0.11	0.01
40210896	5.37			67.2	14.75	6.74	0.54	2.14	2.36	2.93	0.02	0.68	0.03	0.13	0.01
40210897	5.71			66.9	14.85	7.11	0.51	2.17	2.39	3.08	0.02	0.69	0.03	0.11	0.01
40210898	5.44			68.1	13.75	7.07	0.49	2.37	2.30	2.70	0.02	0.63	0.03	0.11	0.01
40210899	11.01			61.3	17.95	8.13	0.39	1.48	3.12	3.93	0.03	0.80	0.04	0.11	0.01
40210900	1.14			46.0	19.15	10.00	10.25	2.27	8.72	0.40	0.03	1.00	0.13	0.11	0.03
40210901	7.76			60.5	17.70	8.34	0.48	1.80	3.17	4.04	0.02	0.73	0.04	0.10	0.02
40210902	3.48			49.2	13.15	17.10	6.82	2.41	4.43	0.92	<0.01	3.61	0.19	0.41	0.06
40210903	11.83			48.6	12.55	17.40	6.71	2.29	4.40	1.63	<0.01	3.71	0.20	0.42	0.07
40210904	11.22			47.9	13.15	17.15	7.02	2.55	4.45	0.98	0.01	3.48	0.19	0.38	0.06
40210905	11.61			48.4	12.95	17.15	7.14	2.49	4.62	0.98	<0.01	3.65	0.19	0.40	0.05
40210906	4.02			49.0	13.45	16.40	5.46	2.24	4.75	1.82	<0.01	3.50	0.18	0.39	0.05
40210907	2.64			59.3	15.45	8.17	3.22	1.36	3.10	3.81	0.02	0.94	0.06	0.12	0.01
40210908	9.94			46.7	12.15	15.15	5.33	1.21	5.15	3.68	<0.01	3.55	0.17	0.39	0.02
40210909	7.54			66.2	7.32	4.98	9.47	0.72	1.13	2.28	0.01	0.33	0.02	0.05	<0.01
40210910	0.16			44.1	18.50	12.15	9.30	2.04	7.49	1.06	0.34	1.30	0.15	0.16	0.05
40210911	10.54			66.9	15.70	6.98	0.70	1.83	2.48	2.95	0.02	0.72	0.03	0.11	0.01
40210911 CRD	<0.02			67.0	15.75	6.97	0.70	1.84	2.49	2.96	0.02	0.72	0.03	0.10	0.01
40210912	10.31			73.4	12.05	5.44	0.95	2.37	1.85	2.52	0.02	0.53	0.02	0.08	0.01
40210913	9.93			62.2	15.30	6.89	2.48	1.42	2.48	3.28	0.02	0.70	0.03	0.10	<0.01
40210914	10.04			67.0	12.40	5.41	3.78	2.29	1.91	2.41	0.02	0.55	0.03	0.09	0.01
40210915	9.50			68.1	14.40	6.24	0.42	2.52	2.23	2.85	0.02	0.65	0.03	0.10	0.01
40210916	10.76			69.3	14.20	6.29	0.50	2.72	2.22	2.91	0.02	0.64	0.03	0.10	0.02
40210917	4.85			58.5	17.60	7.91	1.03	1.58	2.88	4.12	0.03	0.88	0.03	0.11	0.02
40210918	6.31			47.0	12.60	16.75	6.11	2.25	4.33	1.95	<0.01	3.55	0.18	0.40	0.05
40210919	5.79			48.0	12.85	17.05	7.13	2.72	4.33	1.54	<0.01	3.59	0.19	0.41	0.06
40210920	5.23			49.2	13.15	17.40	7.03	2.70	4.49	1.68	<0.01	3.66	0.20	0.40	0.06
40210921	12.42			48.6	13.00	17.30	7.09	2.38	4.54	2.33	<0.01	3.60	0.21	0.39	0.06
40210922	12.51			49.0	13.00	17.15	7.19	2.72	4.47	1.53	<0.01	3.43	0.19	0.39	0.06
40210923	7.13			48.2	12.75	16.90	7.36	2.76	4.34	1.45	<0.01	3.66	0.20	0.40	0.07
40210924	7.43			48.6	13.05	16.40	7.06	2.53	4.48	1.23	<0.01	3.52	0.19	0.39	0.05
40210925	8.15			69.0	13.70	6.05	0.67	2.62	2.27	2.48	0.02	0.63	0.03	0.11	0.02
40210926	11.13			69.0	14.00	6.09	0.43	2.38	2.32	2.72	0.02	0.63	0.03	0.11	0.02
40210927	9.72			65.8	15.65	6.90	0.38	1.64	2.72	3.40	0.02	0.70	0.03	0.10	0.01
40210928	9.96			59.4	13.20	7.19	5.22	0.46	2.34	4.15	0.02	0.62	0.03	0.09	<0.01
40210929	11.04			63.9	11.60	6.61	5.02	0.86	1.96	3.43	0.02	0.52	0.03	0.09	0.01

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40210891		0.01	0.02	0.05	131.0	19.3	180	1.34	2.80	1.44	1.04	18.8	2.68	<5	1.8	0.56
40210892		0.05	0.19	0.16	467	49.8	170	1.30	3.43	1.89	0.96	17.3	3.77	<5	4.0	0.66
40210893		0.06	0.02	0.08	524	52.9	180	1.52	3.36	1.96	1.12	17.4	4.18	<5	4.7	0.70
40210894		0.04	0.02	0.04	366	52.6	130	0.88	3.36	1.97	0.92	15.4	3.67	<5	4.2	0.65
40210895		0.05	0.02	0.03	450	58.3	170	1.56	3.37	2.17	1.08	18.3	3.81	<5	4.9	0.72
40210896		0.06	0.01	0.03	564	55.0	170	1.79	3.71	1.96	1.16	18.6	4.38	<5	4.8	0.76
40210897		0.07	<0.01	0.30	617	55.7	160	1.65	3.56	2.09	1.09	18.2	3.96	<5	4.2	0.80
40210898		0.06	0.01	0.34	542	56.9	160	1.36	3.53	1.94	1.15	17.1	4.03	<5	4.1	0.67
40210899		0.08	<0.01	0.07	699	59.4	180	4.52	4.47	2.66	1.25	24.9	4.59	<5	3.7	0.92
40210900		0.01	<0.01	0.04	131.0	19.3	210	1.49	2.78	1.51	1.00	19.0	2.72	<5	1.9	0.54
40210901		0.12	<0.01	0.27	1095	70.4	180	4.52	4.77	2.81	1.49	24.2	5.32	<5	3.7	1.01
40210902		0.05	<0.01	0.20	436	74.7	20	2.80	7.20	3.62	2.83	26.0	8.62	<5	6.4	1.34
40210903		0.08	0.03	0.04	706	74.4	10	2.28	7.30	3.72	2.93	25.1	9.02	<5	6.7	1.44
40210904		0.04	<0.01	0.06	394	67.1	30	5.15	6.51	3.37	2.62	24.4	7.77	<5	5.9	1.31
40210905		0.05	0.01	0.07	400	70.7	30	4.83	6.95	3.54	2.77	24.3	8.25	<5	6.3	1.31
40210906		0.07	0.03	0.39	658	72.6	30	3.83	7.08	3.48	2.55	23.8	8.50	<5	6.1	1.34
40210907		0.11	0.58	0.21	986	55.5	150	3.29	4.16	2.40	1.41	21.5	4.58	<5	3.9	0.84
40210908		0.10	0.67	0.11	844	73.7	30	3.95	6.38	3.14	1.96	20.0	7.95	<5	6.1	1.25
40210909		0.04	2.00	1.32	355	34.0	80	2.02	1.79	0.99	0.69	9.1	2.02	<5	1.8	0.34
40210910		0.04	0.02	0.34	328	26.4	2410	2.38	3.33	1.92	1.22	19.7	3.56	<5	2.3	0.68
40210911		0.05	0.04	0.03	494	59.4	170	2.57	3.80	2.12	1.18	20.5	4.13	<5	4.0	0.76
40210911 CRD		0.05	0.04	0.03	504	61.3	170	2.72	3.67	2.19	1.22	21.2	4.35	<5	4.0	0.77
40210912		0.05	0.11	0.03	414	46.7	140	1.19	2.69	1.55	0.90	14.6	2.96	<5	3.9	0.54
40210913		0.06	0.43	0.09	513	84.0	160	2.69	4.32	2.29	1.39	21.4	5.02	<5	3.5	0.86
40210914		0.05	0.79	0.04	441	43.5	140	1.28	2.77	1.60	0.94	15.3	3.01	<5	4.1	0.55
40210915		0.06	0.01	0.02	564	42.1	160	1.88	3.41	1.86	0.98	18.1	3.29	<5	4.2	0.68
40210916		0.07	0.02	0.02	631	47.5	150	1.96	3.19	1.93	0.98	16.9	3.44	<5	4.2	0.64
40210917		0.11	0.08	0.02	1020	89.1	180	3.56	4.69	2.57	1.69	23.9	5.55	<5	3.9	0.93
40210918		0.12	0.12	0.11	1080	72.8	20	2.50	6.89	3.52	2.71	24.8	8.42	<5	6.3	1.31
40210919		0.09	<0.01	0.06	764	72.5	20	4.01	7.20	3.41	2.78	24.7	8.42	<5	6.1	1.36
40210920		0.09	0.02	0.08	793	72.4	20	4.09	7.10	3.46	2.81	24.6	8.25	<5	6.2	1.38
40210921		0.10	0.07	0.04	844	66.5	20	4.23	6.50	3.22	2.56	23.8	7.72	<5	5.7	1.29
40210922		0.08	0.03	0.03	751	74.0	20	5.40	7.30	3.35	2.90	25.0	8.29	<5	6.1	1.33
40210923		0.07	0.01	0.04	580	71.7	20	5.52	7.15	3.56	2.96	25.7	8.63	<5	6.8	1.34
40210924		0.06	0.01	0.04	539	70.7	30	4.02	6.71	3.76	2.64	25.9	8.18	<5	6.6	1.36
40210925		0.07	0.04	0.01	631	48.1	150	1.63	3.16	1.81	1.14	17.8	3.62	<5	4.5	0.63
40210926		0.07	<0.01	0.02	613	46.5	160	1.60	3.21	1.83	1.06	18.0	3.61	<5	4.1	0.62
40210927		0.06	0.11	0.18	571	42.3	170	2.87	4.04	2.42	1.18	22.1	3.98	<5	4.6	0.82
40210928		0.07	1.13	1.20	644	42.8	150	3.97	3.51	2.02	1.13	18.9	3.72	<5	3.5	0.69
40210929		0.06	1.05	1.14	531	52.7	140	3.12	3.03	1.85	1.02	16.5	3.57	<5	3.6	0.58



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40210891		8.7	0.19	5.5	11.2	2.51	11.3	2.75	1	283	0.3	0.49	0.85	0.22	0.19	130
40210892		24.2	0.27	8.3	22.4	5.89	106.5	4.41	3	123.0	0.6	0.57	6.28	0.29	2.35	107
40210893		25.1	0.33	9.0	24.2	6.37	109.5	5.16	2	127.5	0.6	0.63	7.52	0.32	2.78	107
40210894		25.4	0.30	7.4	22.6	6.09	99.5	4.31	2	116.5	0.5	0.56	6.44	0.34	2.42	81
40210895		28.4	0.34	9.7	25.4	6.74	81.0	4.72	2	85.2	0.7	0.57	7.86	0.31	3.22	112
40210896		26.4	0.30	9.2	25.6	6.60	105.0	5.42	1	102.0	0.7	0.69	7.53	0.36	3.01	111
40210897		27.1	0.32	9.0	25.3	6.45	114.0	4.90	2	101.0	0.6	0.60	7.31	0.33	3.00	112
40210898		27.5	0.29	8.3	25.9	6.62	102.5	5.11	2	110.0	0.6	0.62	6.85	0.28	2.56	102
40210899		28.2	0.41	10.6	28.7	7.23	171.5	5.84	2	86.9	0.8	0.74	8.55	0.40	6.34	164
40210900		8.8	0.20	5.5	10.8	2.52	11.7	2.70	1	288	0.4	0.43	0.85	0.24	0.22	133
40210901		34.3	0.50	10.5	32.8	8.62	168.5	6.95	2	200	0.8	0.84	9.05	0.42	12.65	199
40210902		31.9	0.43	25.4	41.2	9.63	34.3	9.40	2	516	1.7	1.31	4.24	0.47	1.51	451
40210903		32.4	0.48	26.4	42.2	9.65	59.1	9.44	2	640	1.7	1.34	3.90	0.51	1.19	438
40210904		28.9	0.40	23.5	37.8	8.67	36.2	8.34	2	526	1.6	1.17	3.50	0.44	1.04	455
40210905		30.3	0.43	24.5	39.1	9.32	36.2	8.99	2	471	1.6	1.18	3.95	0.49	1.13	451
40210906		30.9	0.45	24.3	40.9	9.41	61.5	9.34	1	442	1.6	1.24	4.41	0.51	1.99	433
40210907		26.5	0.37	10.7	28.1	6.83	134.5	5.58	2	133.5	0.8	0.75	7.26	0.36	5.15	163
40210908		31.1	0.38	23.7	40.5	9.63	113.5	8.47	2	150.0	1.6	1.17	3.83	0.44	1.24	437
40210909		18.1	0.15	4.3	15.1	3.92	85.5	2.73	1	48.3	0.3	0.31	3.34	0.13	1.64	65
40210910		12.1	0.27	7.3	14.9	3.35	34.1	3.55	2	385	0.5	0.56	1.21	0.29	0.32	210
40210911		28.9	0.31	9.6	27.5	7.18	107.0	5.20	2	56.7	0.7	0.63	7.76	0.32	3.40	125
40210911 CRD		29.6	0.33	9.8	28.0	7.24	109.0	5.55	2	57.9	0.7	0.65	7.80	0.35	3.48	127
40210912		22.2	0.27	7.4	20.5	5.35	98.5	3.99	1	112.5	0.5	0.49	6.34	0.25	2.44	82
40210913		44.1	0.37	9.1	36.6	9.77	114.5	6.61	2	39.6	0.7	0.78	7.69	0.36	5.68	144
40210914		21.0	0.25	7.4	19.3	4.98	80.4	3.53	1	99.5	0.5	0.47	6.16	0.24	2.38	85
40210915		19.3	0.27	8.8	19.1	5.00	107.0	4.01	2	124.0	0.6	0.54	7.41	0.29	3.01	104
40210916		21.9	0.29	8.4	21.6	5.69	120.5	4.36	1	162.5	0.6	0.52	7.05	0.28	2.94	104
40210917		45.0	0.41	11.4	41.9	10.95	148.5	7.82	2	145.0	0.8	0.82	8.73	0.38	3.79	151
40210918		31.8	0.46	24.9	40.0	9.36	78.9	9.01	2	443	1.6	1.20	4.00	0.51	1.17	432
40210919		31.4	0.43	25.4	40.8	9.34	55.4	9.22	2	527	1.7	1.24	4.02	0.50	1.16	443
40210920		31.1	0.41	24.8	40.6	9.38	60.1	9.49	3	540	1.6	1.26	3.90	0.49	1.21	433
40210921		28.7	0.41	23.3	37.4	8.60	84.0	8.26	2	536	1.6	1.13	3.59	0.48	1.08	440
40210922		31.9	0.44	25.2	40.7	9.54	57.4	9.61	2	522	1.6	1.23	4.10	0.51	1.32	450
40210923		31.4	0.40	24.7	39.7	9.42	53.3	9.04	2	563	1.4	1.26	4.04	0.49	1.31	443
40210924		31.2	0.42	24.0	38.6	9.09	47.8	9.13	2	458	1.5	1.20	4.29	0.51	1.40	441
40210925		23.2	0.27	8.3	22.5	5.70	79.4	4.60	1	168.5	0.4	0.54	6.93	0.27	2.93	98
40210926		22.0	0.31	12.3	21.7	5.54	90.8	4.33	1	136.0	0.4	0.53	7.42	0.27	3.02	100
40210927		19.7	0.38	9.8	20.7	5.27	120.5	4.84	2	82.5	0.5	0.65	8.01	0.36	6.54	136
40210928		21.2	0.31	8.2	20.4	5.22	151.0	4.31	1	43.9	0.4	0.60	6.95	0.30	4.43	122
40210929		28.1	0.28	7.1	22.7	5.90	124.0	4.17	1	61.2	0.3	0.52	6.28	0.27	4.46	104



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40210891		<1	14.1	1.36	68	0.6	0.01	<0.005	0.015	0.001	<0.05	0.4	0.02	0.02	1.08	98.68
40210892		1	18.1	1.88	145	8.1	0.07	0.012	0.259	<0.001	0.44	1.3	0.08	0.20	2.81	99.69
40210893		1	19.1	2.07	178	4.3	0.15	0.019	0.021	<0.001	0.28	1.1	0.17	0.90	2.27	100.74
40210894		1	18.1	2.06	151	1.4	0.02	0.014	0.093	<0.001	0.17	0.6	0.03	0.11	1.84	99.76
40210895		1	18.6	2.18	181	1.3	0.01	0.006	0.020	0.001	0.15	0.8	0.01	0.09	2.46	100.12
40210896		1	20.3	2.08	174	2.5	0.06	0.008	0.020	<0.001	0.16	0.6	0.06	0.23	2.43	100.02
40210897		1	18.4	2.15	150	33.2	3.04	0.027	0.036	0.003	0.96	2.0	0.84	3.43	2.58	100.52
40210898		1	17.6	1.92	150	34.2	7.17	0.038	0.052	0.006	1.54	2.2	1.19	4.39	2.35	99.99
40210899		1	22.7	2.60	138	3.5	0.09	<0.005	0.039	0.002	0.24	0.8	0.03	0.31	3.49	100.86
40210900		1	14.0	1.25	73	0.5	0.03	<0.005	0.016	<0.001	0.08	0.5	0.01	0.05	0.93	99.03
40210901		2	27.6	2.95	133	6.5	0.08	0.006	0.047	0.007	0.35	1.5	0.09	0.38	3.18	100.24
40210902		1	35.2	3.12	242	1.7	0.03	0.010	0.049	0.001	0.36	1.0	0.02	0.26	2.01	100.36
40210903		1	35.9	3.28	248	1.4	0.04	0.012	0.037	0.001	0.24	0.9	0.01	0.12	1.92	99.98
40210904		1	32.4	2.88	220	4.7	0.03	0.009	0.032	0.001	0.27	1.1	0.01	0.29	1.36	98.72
40210905		1	33.6	2.99	231	3.3	0.07	<0.005	0.035	<0.001	0.24	1.2	0.01	0.37	1.81	99.88
40210906		1	34.1	3.02	232	3.5	0.03	0.012	0.062	0.002	0.79	1.7	0.02	0.77	3.18	100.49
40210907		1	22.7	2.44	134	9.1	0.05	0.015	0.041	0.002	0.59	1.1	0.02	0.44	5.07	100.74
40210908		2	30.5	2.71	225	2.5	0.05	0.032	0.092	0.001	0.22	1.4	0.01	0.53	6.68	100.28
40210909		1	9.6	1.01	68	5.2	0.02	0.261	0.012	<0.001	2.47	0.5	0.02	1.63	6.81	99.36
40210910		<1	18.1	1.74	92	5.5	0.14	0.009	0.031	0.004	0.39	1.1	0.06	0.47	2.06	98.74
40210911		1	20.1	2.15	139	2.0	0.04	0.015	0.027	0.001	0.26	0.5	0.02	0.16	3.04	101.52
40210911 CRD		1	20.7	2.22	142	2.1	0.04	0.026	0.029	<0.001	0.28	0.7	0.01	0.16	2.97	101.61
40210912		1	14.3	1.71	148	1.2	0.02	0.021	0.014	<0.001	0.20	0.6	0.02	0.08	2.22	101.51
40210913		1	23.9	2.45	127	10.4	0.10	0.050	0.027	0.003	0.63	0.7	0.05	0.56	4.29	99.25
40210914		1	13.9	1.67	151	1.2	0.02	0.010	0.012	<0.001	0.25	0.4	0.01	0.08	4.71	100.66
40210915		1	16.9	2.05	160	1.1	0.02	<0.005	0.024	<0.001	0.21	0.4	0.01	0.09	2.48	100.11
40210916		1	16.5	1.78	159	1.7	0.03	<0.005	0.025	<0.001	0.19	0.5	0.01	0.11	2.32	101.34
40210917		1	24.8	2.63	139	1.7	0.02	<0.005	0.021	0.001	0.29	0.8	0.02	0.12	3.59	98.39
40210918		1	34.1	2.92	235	2.3	0.04	0.010	0.054	<0.001	0.27	1.3	0.01	0.17	2.75	98.04
40210919		1	34.4	2.97	234	1.8	0.05	0.007	0.032	<0.001	0.21	1.1	<0.01	0.22	1.65	99.61
40210920		1	34.6	3.04	236	1.9	0.05	<0.005	0.033	<0.001	0.22	1.0	0.01	0.22	1.72	101.78
40210921		1	32.5	2.83	218	2.5	0.05	0.008	0.033	0.001	0.22	0.9	0.01	0.19	1.81	101.41
40210922		1	35.1	2.98	239	1.5	0.03	0.009	0.029	<0.001	0.12	1.1	<0.01	0.30	1.46	100.67
40210923		1	33.3	3.14	246	2.2	0.03	0.010	0.031	<0.001	0.16	0.8	0.01	0.28	1.15	99.31
40210924		1	32.4	2.96	241	2.7	0.03	0.005	0.033	<0.001	0.23	0.8	0.01	0.22	1.79	99.35
40210925		1	15.4	1.86	162	2.0	0.02	<0.005	0.011	<0.001	0.17	0.4	0.01	0.08	2.35	100.02
40210926		1	15.6	1.90	145	1.7	0.02	<0.005	0.017	<0.001	0.16	0.4	0.01	0.07	2.35	100.17
40210927		1	21.2	2.47	152	10.4	0.14	0.005	0.033	0.005	0.51	0.7	0.04	0.60	3.12	100.53
40210928		1	17.8	2.02	121	14.9	0.08	0.247	0.025	0.001	2.29	1.1	0.03	2.03	5.38	98.17
40210929		1	16.1	1.72	126	11.2	0.11	0.265	0.018	0.002	3.10	0.9	0.03	2.47	4.88	98.99



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001
40210891		<0.5	<5	<0.5	56	123	10	<1	317	<2	13	<10	73	0.001	0.005	0.006
40210892		<0.5	7	<0.5	22	864	60	1	110	5	15	10	98	<0.001	<0.005	0.007
40210893		<0.5	<5	<0.5	24	333	60	1	302	9	16	<10	58	<0.001	0.045	0.118
40210894		<0.5	6	<0.5	17	123	60	2	55	5	13	<10	65	<0.001	<0.005	0.008
40210895		<0.5	<5	<0.5	18	30	70	2	65	6	17	<10	68	<0.001	<0.005	0.001
40210896		<0.5	<5	<0.5	19	6	70	<1	105	12	17	<10	60	<0.001	0.040	0.054
40210897		1.5	33	<0.5	58	1125	70	3	1635	27	18	10	67	0.036	0.290	0.676
40210898		1.7	35	<0.5	72	1505	70	4	2090	48	16	10	64	0.049	0.665	1.165
40210899		<0.5	<5	<0.5	22	127	80	9	89	8	22	10	138	<0.001	<0.005	0.005
40210900		<0.5	<5	<0.5	50	109	10	<1	283	<2	14	<10	79	0.001	0.005	0.008
40210901		<0.5	6	<0.5	24	318	80	39	106	18	23	<10	158	0.001	<0.005	0.006
40210902		<0.5	<5	<0.5	54	291	30	2	71	4	26	<10	169	0.004	<0.005	0.010
40210903		<0.5	<5	<0.5	50	267	40	1	57	<2	27	<10	175	0.002	<0.005	0.011
40210904		<0.5	8	<0.5	55	256	30	2	90	9	25	<10	179	0.002	<0.005	0.009
40210905		<0.5	<5	<0.5	55	254	30	1	80	4	26	<10	161	0.003	<0.005	0.010
40210906		<0.5	<5	<0.5	48	255	40	4	74	3	26	<10	164	0.002	<0.005	0.009
40210907		<0.5	7	<0.5	24	120	70	9	81	14	21	<10	144	<0.001	<0.005	0.003
40210908		<0.5	<5	<0.5	53	259	60	1	82	6	26	<10	147	0.002	<0.005	0.010
40210909		<0.5	9	<0.5	8	20	120	1	31	2	8	<10	32	<0.001	<0.005	0.001
40210910		<0.5	<5	<0.5	64	1120	40	3	697	2	18	<10	107	0.021	0.039	0.219
40210911		<0.5	<5	<0.5	20	43	70	2	71	3	20	<10	83	<0.001	<0.005	0.002
40210911 CRD		<0.5	<5	<0.5	20	43	70	2	71	4	19	<10	84	<0.001	<0.005	0.002
40210912		<0.5	<5	<0.5	14	5	60	<1	47	3	13	<10	40	<0.001	<0.005	0.001
40210913		<0.5	11	<0.5	20	100	70	18	77	5	19	<10	105	<0.001	<0.005	0.002
40210914		<0.5	<5	<0.5	13	8	50	1	48	11	13	10	37	<0.001	<0.005	0.001
40210915		<0.5	5	<0.5	16	23	60	1	58	8	16	<10	49	<0.001	<0.005	0.001
40210916		<0.5	<5	<0.5	15	30	50	1	58	9	16	<10	47	<0.001	<0.005	0.001
40210917		<0.5	<5	<0.5	21	14	70	1	82	8	22	<10	78	<0.001	<0.005	0.002
40210918		<0.5	<5	<0.5	53	375	40	1	69	<2	26	<10	163	0.002	<0.005	0.010
40210919		<0.5	<5	<0.5	53	272	30	1	73	<2	27	<10	164	0.003	<0.005	0.010
40210920		<0.5	<5	<0.5	53	262	30	1	69	<2	26	<10	159	0.003	<0.005	0.010
40210921		<0.5	<5	<0.5	53	211	30	1	72	<2	25	<10	161	0.002	<0.005	0.010
40210922		<0.5	<5	<0.5	53	269	20	1	70	2	26	<10	164	0.003	<0.005	0.010
40210923		<0.5	6	<0.5	54	256	30	1	70	3	26	<10	191	0.004	<0.005	0.010
40210924		<0.5	5	<0.5	50	243	30	1	73	<2	24	<10	163	0.003	<0.005	0.010
40210925		<0.5	<5	<0.5	14	16	50	1	52	4	14	<10	47	<0.001	<0.005	0.001
40210926		<0.5	5	<0.5	15	15	50	1	55	2	15	<10	49	<0.001	<0.005	0.001
40210927		<0.5	9	<0.5	19	122	60	14	73	6	19	<10	108	<0.001	<0.005	0.003
40210928		<0.5	13	<0.5	14	74	70	5	63	5	16	<10	89	0.001	<0.005	0.002
40210929		<0.5	11	<0.5	13	58	70	10	57	10	13	10	70	0.001	<0.005	0.002



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 Na2O %	ME-ICP06 MgO %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %
40210930		0.90			45.6	17.95	9.86	10.05	2.27	9.24	0.34	0.03	1.03	0.13	0.12	0.03
40210930 CRD		<0.02			45.4	18.80	10.05	10.15	2.31	8.91	0.34	0.03	1.00	0.13	0.13	0.04
40210931		10.77			70.5	13.00	5.72	0.92	1.61	2.05	3.46	0.02	0.58	0.03	0.09	0.02
40210932		10.60			70.7	13.65	5.98	0.54	2.53	2.13	3.01	0.02	0.59	0.03	0.10	0.02
40210933		10.08			73.1	12.55	5.21	0.42	2.72	1.85	2.51	0.02	0.51	0.03	0.09	0.02
40210934		10.62			69.9	13.50	6.07	0.50	2.07	2.15	2.89	0.02	0.58	0.03	0.10	0.02
40210935		9.84			64.4	16.40	7.39	0.52	1.66	2.73	3.39	0.02	0.73	0.03	0.11	0.01
40210936		9.37			65.2	16.55	7.33	0.49	1.71	2.84	3.42	0.03	0.74	0.03	0.11	0.01
40210937		9.38			72.2	12.70	5.96	0.39	2.34	2.12	2.61	0.02	0.54	0.03	0.11	0.02
40210938		8.98	78.8	89.3	67.2	15.30	6.74	0.43	1.82	2.51	3.25	0.02	0.67	0.03	0.12	0.02
40210939		10.12			67.5	14.30	6.62	0.52	1.78	2.52	3.03	0.03	0.71	0.03	0.12	0.01
40210940		0.17			44.4	18.65	12.25	9.63	2.17	7.55	1.09	0.36	1.34	0.15	0.15	0.05
40210941		10.55			73.4	11.70	5.68	1.20	0.78	1.87	3.87	0.02	0.55	0.03	0.09	0.01
40210942		10.59			76.0	9.42	4.87	2.34	1.43	1.49	2.90	0.02	0.42	0.02	0.07	0.01
40210943		10.95			69.9	12.45	6.17	1.32	1.89	2.35	2.45	0.02	0.58	0.03	0.10	0.01
40210944		10.15			64.2	16.20	6.89	1.15	2.78	2.69	3.30	0.03	0.73	0.03	0.12	0.02
40210945		9.97			66.3	15.50	7.45	0.50	3.52	2.75	2.39	0.03	0.69	0.04	0.12	0.02
40210946		10.67			63.1	16.30	6.85	0.64	2.18	2.68	3.17	0.03	0.76	0.03	0.11	0.02
40210947		10.07			66.7	15.75	6.80	0.72	2.55	2.61	2.90	0.03	0.72	0.03	0.11	0.02
40210948		9.55			59.0	17.00	9.96	1.32	1.98	3.40	3.21	0.02	1.26	0.05	0.17	0.02
40210949		5.91			50.8	15.55	12.75	5.48	3.49	3.06	3.01	<0.01	2.60	0.14	0.41	0.09
40210950		5.89			51.1	15.60	12.95	5.54	3.49	3.10	3.03	<0.01	2.61	0.14	0.42	0.09
40210950 CRD		<0.02			50.9	15.45	13.00	5.46	3.49	3.11	3.03	<0.01	2.64	0.14	0.43	0.09
40210951		12.06			52.0	16.40	12.00	5.97	3.64	2.79	3.12	<0.01	2.43	0.14	0.41	0.11
40210952		11.15			49.9	17.80	10.15	6.55	3.48	2.38	3.63	<0.01	2.12	0.12	0.31	0.13
40210953		11.45			51.7	17.65	9.60	4.93	3.00	2.37	4.90	<0.01	2.07	0.12	0.30	0.09
40210954		11.08			51.3	17.85	9.60	4.48	3.14	2.63	4.53	<0.01	1.95	0.12	0.29	0.05
40210955		10.80			51.3	17.20	9.06	4.59	2.35	2.56	6.04	<0.01	1.92	0.12	0.28	0.04
40210956		11.39			49.2	17.25	9.90	5.49	3.08	2.77	4.47	<0.01	2.07	0.12	0.31	0.08
40210957		11.28			50.6	17.55	10.70	5.77	3.17	2.59	3.82	<0.01	2.13	0.11	0.32	0.15
40210958		11.37			49.7	17.50	10.40	6.72	3.32	2.56	3.40	<0.01	2.04	0.11	0.32	0.13
40210959		11.52			51.1	18.10	9.99	5.98	3.31	2.64	3.78	<0.01	2.06	0.13	0.30	0.14
40210960		1.18			45.8	17.95	11.10	9.98	2.26	9.81	0.38	0.03	1.03	0.14	0.11	0.03
40210961		11.56			52.4	18.25	9.97	6.08	3.40	2.82	3.77	<0.01	2.05	0.13	0.31	0.09
40210962		11.61			51.0	15.85	12.20	5.59	3.12	2.92	3.36	<0.01	2.35	0.15	0.41	0.07
40210963		11.77			51.4	11.75	17.50	5.34	2.56	3.59	2.55	<0.01	2.93	0.21	0.73	0.04
40210964		11.88			50.9	11.45	16.70	5.85	2.16	3.68	2.74	<0.01	3.28	0.20	0.59	0.03
40210965		11.17			52.7	15.95	11.65	4.94	2.93	3.06	3.82	<0.01	2.48	0.14	0.38	0.05
40210966		11.60			50.3	15.10	12.25	5.40	3.00	3.62	3.35	<0.01	2.89	0.16	0.38	0.11
40210967		12.26			51.6	15.65	13.15	5.91	3.12	3.48	3.23	<0.01	2.96	0.16	0.39	0.12



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte Units LOR	BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40210930		0.01	0.03	0.06	117.0	19.1	170	1.35	2.64	1.57	0.95	19.2	2.96	<5	2.3	0.57
40210930 CRD		0.01	0.03	0.07	125.0	20.5	180	1.40	2.80	1.56	1.09	20.1	2.99	<5	2.1	0.61
40210931		0.06	0.12	0.16	566	42.7	140	2.61	3.04	1.85	1.01	16.4	3.37	<5	4.7	0.61
40210932		0.06	0.05	0.15	538	46.2	140	1.64	3.04	1.65	1.04	16.5	3.44	<5	4.5	0.62
40210933		0.05	0.03	0.03	484	43.1	160	1.19	2.71	1.64	0.86	14.3	3.34	<5	5.8	0.57
40210934		0.07	0.01	0.04	595	44.4	140	2.01	3.13	1.93	1.00	16.6	3.72	<5	5.0	0.66
40210935		0.06	0.04	0.39	540	53.6	160	3.17	4.07	2.54	1.25	21.6	4.70	<5	4.3	0.84
40210936		0.06	0.04	0.19	566	45.8	170	3.21	4.12	2.43	1.24	22.1	4.61	<5	4.3	0.81
40210937		0.06	<0.01	0.04	554	39.2	150	1.46	2.90	1.80	0.87	15.3	3.32	<5	4.9	0.58
40210938		0.06	0.01	0.03	566	47.9	160	2.46	3.32	1.93	1.01	19.9	3.95	<5	4.5	0.68
40210939		0.07	0.02	0.02	578	55.3	200	2.63	3.71	2.17	1.17	20.3	4.31	<5	4.8	0.71
40210940		0.04	0.02	0.34	331	25.1	2440	2.36	3.47	1.98	1.20	21.1	3.55	<5	2.6	0.71
40210941		0.07	0.15	0.21	617	40.5	140	3.78	2.86	1.61	0.95	14.6	3.30	<5	3.6	0.61
40210942		0.06	0.42	0.58	481	38.1	120	1.64	2.21	1.24	0.87	11.1	2.88	<5	3.4	0.46
40210943		0.05	0.18	0.11	418	50.1	140	2.00	3.26	1.86	1.17	17.4	3.87	<5	3.6	0.64
40210944		0.06	0.14	0.13	532	52.9	170	2.51	3.85	2.44	1.32	21.0	4.49	<5	4.5	0.78
40210945		0.05	<0.01	0.15	423	56.6	190	1.61	3.39	2.08	1.12	20.6	3.82	<5	5.6	0.67
40210946		0.07	<0.01	0.17	499	43.4	160	2.23	3.33	1.88	1.10	18.9	3.81	<5	3.5	0.69
40210947		0.07	<0.01	0.24	579	51.8	170	2.33	3.68	2.17	1.25	21.3	4.56	<5	4.6	0.75
40210948		0.07	<0.01	0.60	592	54.7	160	2.68	4.98	2.74	1.48	25.3	5.71	<5	4.3	0.95
40210949		0.09	0.03	0.07	812	65.7	10	2.32	6.53	3.45	2.41	24.9	8.06	<5	6.1	1.25
40210950		0.10	0.04	0.07	856	69.8	10	2.33	6.52	3.54	2.38	26.2	7.97	<5	6.0	1.29
40210950 CRD		0.10	0.04	0.06	841	69.3	10	2.27	6.64	3.48	2.38	25.8	7.96	<5	6.2	1.29
40210951		0.07	0.01	0.04	648	63.4	10	1.83	6.02	3.14	2.38	25.3	7.81	<5	5.5	1.18
40210952		0.10	0.14	0.04	922	49.1	10	2.85	4.72	2.52	2.01	26.0	6.08	<5	4.5	0.95
40210953		0.20	0.12	0.47	1845	70.1	40	4.54	5.34	2.80	2.25	28.0	6.39	<5	5.0	1.01
40210954		0.28	0.16	0.42	2640	53.5	10	5.53	4.51	2.38	1.83	24.9	5.47	<5	4.1	0.84
40210955		0.36	0.39	0.21	3330	46.3	10	4.80	4.44	2.25	1.86	23.2	5.08	<5	4.3	0.84
40210956		0.25	0.39	0.09	2320	57.8	10	3.73	4.76	2.51	1.93	24.3	6.12	<5	4.5	0.94
40210957		0.07	0.01	0.06	574	98.5	10	1.79	5.42	2.63	2.16	25.7	6.55	<5	4.8	1.02
40210958		0.04	0.02	0.07	399	176.0	10	1.69	5.35	2.80	2.19	27.0	7.28	<5	4.5	1.07
40210959		0.10	0.05	0.03	935	49.1	10	2.77	4.94	2.51	2.13	26.5	6.04	<5	4.6	0.97
40210960		0.01	0.01	0.04	123.5	19.2	170	1.22	2.52	1.54	1.00	17.3	2.82	<5	1.9	0.55
40210961		0.23	0.07	0.09	2010	49.6	10	4.25	4.97	2.35	2.14	24.1	5.93	<5	4.3	0.95
40210962		0.22	0.05	0.10	1865	68.6	<10	3.41	6.78	3.43	2.64	24.6	8.10	<5	6.2	1.28
40210963		0.16	0.05	0.16	1355	109.5	<10	2.35	11.05	5.47	3.80	25.8	12.85	<5	9.4	2.21
40210964		0.15	0.30	0.60	1250	88.0	10	2.44	9.38	4.89	3.20	23.5	11.05	<5	8.2	1.89
40210965		0.19	0.14	0.45	1580	66.4	10	3.72	6.39	3.23	2.66	23.1	7.61	<5	5.8	1.26
40210966		0.14	0.06	0.05	1280	71.1	10	2.71	6.17	3.02	2.52	23.4	6.97	<5	5.6	1.17
40210967		0.07	0.01	0.06	565	61.3	10	2.03	6.11	3.37	2.47	23.6	7.31	<5	5.3	1.20



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
		0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
40210930		8.6	0.21	5.4	11.4	2.54	8.2	2.91	1	275	0.3	0.43	0.88	0.23	0.21	122
40210930 CRD		9.4	0.23	5.7	12.3	2.79	8.4	2.73	1	287	0.4	0.49	0.92	0.23	0.25	127
40210931		20.7	0.27	7.7	20.5	5.20	125.0	4.09	1	115.5	0.6	0.50	6.54	0.26	2.79	92
40210932		23.2	0.28	8.2	21.4	5.50	105.5	4.41	2	135.0	0.6	0.54	7.03	0.26	2.86	92
40210933		20.2	0.27	7.4	20.7	5.16	91.1	3.84	1	185.0	0.6	0.50	6.90	0.25	3.46	80
40210934		20.8	0.34	8.3	21.5	5.56	112.0	4.38	1	177.0	0.6	0.55	7.17	0.27	3.61	95
40210935		25.9	0.37	10.4	26.9	6.89	126.5	5.73	2	87.3	0.7	0.65	8.61	0.32	6.42	134
40210936		21.0	0.37	10.0	24.9	6.05	125.0	5.55	2	103.5	0.7	0.67	8.33	0.32	6.82	142
40210937		18.9	0.28	7.6	19.1	4.79	96.9	4.08	1	172.5	0.6	0.47	6.76	0.26	3.10	85
40210938		23.7	0.32	9.1	23.1	5.85	115.0	4.92	2	118.0	0.6	0.58	7.53	0.28	3.87	111
40210939		27.2	0.32	9.6	26.2	6.77	118.5	5.24	2	121.0	0.7	0.61	8.27	0.34	4.89	123
40210940		11.6	0.27	7.4	14.8	3.33	32.8	3.49	2	398	0.4	0.56	1.26	0.28	0.33	188
40210941		19.2	0.24	7.4	19.0	5.04	148.0	3.96	1	62.2	0.6	0.48	5.97	0.26	2.81	92
40210942		19.1	0.21	5.8	18.0	4.46	108.5	3.21	1	78.1	0.4	0.40	4.76	0.19	2.07	66
40210943		25.0	0.28	7.9	23.9	6.12	93.3	4.71	1	105.5	0.6	0.53	6.49	0.25	3.88	103
40210944		26.1	0.32	9.8	26.5	6.60	119.5	5.21	2	131.5	0.7	0.64	8.04	0.31	5.02	133
40210945		29.0	0.33	9.3	25.0	6.63	85.0	4.71	2	146.0	0.6	0.59	7.62	0.31	3.25	108
40210946		21.0	0.30	8.6	23.1	5.59	103.0	4.64	1	119.5	0.6	0.58	7.02	0.27	4.39	117
40210947		25.2	0.33	9.8	26.2	6.52	110.5	5.86	1	181.0	0.7	0.63	7.94	0.31	4.52	127
40210948		26.1	0.40	13.1	29.5	7.15	110.0	6.61	2	120.5	0.9	0.87	8.04	0.41	5.89	189
40210949		29.6	0.41	19.6	37.6	8.58	108.0	8.36	2	712	1.2	1.11	3.95	0.45	1.19	208
40210950		31.2	0.43	20.7	40.7	9.13	111.5	8.38	2	717	1.3	1.15	3.84	0.46	1.11	210
40210950 CRD		31.1	0.42	20.6	39.7	9.22	110.0	9.11	3	701	1.2	1.16	3.95	0.46	1.21	211
40210951		28.4	0.37	18.8	36.6	8.34	107.0	8.16	2	857	1.2	1.09	3.84	0.43	1.13	187
40210952		21.8	0.30	15.0	28.6	6.36	130.0	6.48	2	1045	0.9	0.88	2.94	0.34	0.82	187
40210953		33.5	0.36	16.2	36.0	8.65	198.0	7.46	2	788	1.0	0.91	4.15	0.37	1.71	204
40210954		24.0	0.30	13.6	28.6	6.67	161.5	6.27	6	443	0.9	0.80	2.72	0.32	0.78	166
40210955		21.0	0.31	13.9	26.1	6.11	219	5.86	2	357	0.9	0.76	2.70	0.32	0.80	162
40210956		27.6	0.30	14.6	30.6	7.26	150.5	6.58	2	636	1.0	0.84	2.87	0.34	0.88	174
40210957		48.3	0.31	15.7	42.8	11.15	133.0	7.69	2	1180	1.0	0.93	3.15	0.38	1.03	172
40210958		91.4	0.32	15.3	64.8	18.60	121.0	9.89	3	1065	0.9	0.99	2.83	0.36	1.03	180
40210959		22.0	0.31	15.1	27.8	6.58	131.5	6.55	2	1150	1.0	0.89	2.96	0.35	0.86	184
40210960		9.0	0.21	5.3	11.2	2.61	9.4	2.70	1	266	0.3	0.44	0.80	0.23	0.20	126
40210961		22.9	0.30	14.3	27.8	6.51	129.0	6.41	2	813	0.9	0.85	2.53	0.34	0.76	173
40210962		31.6	0.45	19.7	37.9	8.97	111.5	8.69	2	604	1.2	1.13	4.10	0.46	1.08	170
40210963		50.1	0.71	30.9	61.2	14.30	78.5	13.85	3	305	1.8	1.89	5.93	0.79	1.86	149
40210964		39.6	0.59	27.6	50.9	11.45	85.6	11.70	3	262	1.5	1.65	5.22	0.66	1.57	236
40210965		30.7	0.43	19.0	36.1	8.72	124.0	8.06	3	501	1.1	1.07	3.62	0.44	1.09	193
40210966		26.5	0.37	18.1	32.9	7.66	115.0	7.46	37	861	1.1	0.98	3.40	0.44	0.98	245
40210967		27.6	0.39	18.6	34.3	8.01	104.5	7.63	2	992	1.1	1.03	3.57	0.43	1.03	257



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15099047

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40210930		<1	14.1	1.45	81	0.7	0.02	0.008	0.014	0.001	0.14	0.7	0.01	0.04	1.50	98.16
40210930 CRD		<1	14.8	1.54	87	0.5	0.01	0.009	0.010	0.001	0.13	0.5	0.01	0.04	1.59	98.89
40210931		1	15.8	1.95	167	1.7	0.03	0.158	0.014	<0.001	0.48	0.7	0.01	0.19	2.59	100.65
40210932		1	15.8	1.95	165	4.7	0.07	0.083	0.026	<0.001	0.70	0.5	0.03	0.12	2.29	101.65
40210933		1	15.3	1.90	214	1.9	0.04	0.017	0.017	0.001	0.29	0.7	0.01	0.08	1.94	101.02
40210934		1	16.5	2.00	181	3.0	0.06	0.014	0.016	0.001	0.24	0.6	0.03	0.09	2.32	100.22
40210935		1	21.4	2.35	153	8.4	0.20	0.015	0.039	0.002	0.44	0.9	0.05	0.30	3.26	100.71
40210936		2	21.6	2.54	153	11.1	0.15	0.014	0.042	0.004	0.38	1.0	0.05	0.35	3.20	101.72
40210937		1	15.3	1.99	180	1.1	0.06	0.014	0.021	0.001	0.23	0.5	0.01	0.08	2.03	101.13
40210938		2	18.4	2.13	164	3.1	0.18	0.009	0.025	0.001	0.30	0.6	0.14	0.15	2.88	101.05
40210939		1	19.4	2.14	175	2.8	0.12	0.011	0.031	0.002	0.37	0.7	0.03	0.30	2.82	100.06
40210940		1	17.4	1.79	101	3.8	0.13	0.021	0.030	0.004	0.38	1.6	0.06	0.43	2.04	99.87
40210941		1	14.7	1.70	130	2.2	0.06	0.141	0.019	<0.001	0.60	0.7	0.01	0.25	2.60	101.87
40210942		1	12.0	1.38	124	5.5	0.03	0.134	0.014	<0.001	1.43	0.7	0.02	0.86	2.69	101.74
40210943		1	16.9	1.81	128	6.0	0.07	0.105	0.026	0.002	0.59	0.9	0.02	0.38	2.90	100.22
40210944		2	20.3	2.38	156	5.1	0.10	0.031	0.019	0.003	0.54	0.8	0.03	0.50	3.13	101.33
40210945		1	17.9	2.19	199	9.7	0.07	0.015	0.040	<0.001	0.41	0.8	0.05	0.16	2.60	101.96
40210946		2	17.8	2.17	130	5.2	0.05	0.013	0.012	0.002	0.38	1.0	0.04	0.36	2.95	98.89
40210947		1	20.1	2.22	161	5.1	0.07	0.010	0.026	0.001	0.26	0.7	0.02	0.24	2.69	101.70
40210948		1	26.0	2.73	164	2.2	0.10	0.010	0.028	0.002	0.30	1.3	0.03	0.27	3.45	100.91
40210949		1	31.1	3.10	223	0.5	0.03	0.011	0.030	0.001	0.23	1.3	0.01	0.08	1.87	99.34
40210950		1	32.0	3.03	226	0.4	0.02	0.014	0.032	0.001	0.22	1.0	0.01	0.06	1.81	99.98
40210950 CRD		1	32.6	3.13	228	0.4	0.02	0.010	0.030	0.001	0.17	0.9	<0.01	0.05	1.81	99.65
40210951		1	29.4	2.73	213	0.8	0.03	0.010	0.023	0.001	0.18	1.1	0.01	0.05	1.75	100.83
40210952		1	23.8	2.17	168	0.5	0.02	0.014	0.016	0.001	0.15	0.9	0.01	0.05	2.06	98.73
40210953		1	25.5	2.54	182	3.8	0.02	0.069	0.064	0.001	0.80	0.8	0.01	0.37	2.28	99.21
40210954		1	21.7	2.05	150	2.5	0.02	0.059	0.051	<0.001	0.47	1.1	0.01	0.25	2.65	98.87
40210955		1	20.9	2.00	155	4.6	0.03	0.056	0.048	0.001	0.69	1.1	0.01	0.32	3.39	99.21
40210956		1	23.1	2.26	167	1.6	0.01	0.023	0.044	0.001	0.29	0.9	0.01	0.09	3.46	98.45
40210957		1	24.8	2.38	181	0.4	0.01	0.011	0.025	0.001	0.18	0.9	0.01	0.05	1.94	98.92
40210958		1	25.9	2.39	164	0.4	0.01	0.009	0.032	0.001	0.19	0.7	<0.01	0.04	2.13	98.37
40210959		1	23.9	2.27	165	1.1	0.02	0.014	0.016	<0.001	0.14	0.8	0.01	0.04	1.90	99.53
40210960		<1	13.5	1.53	73	0.4	0.01	0.008	0.011	<0.001	0.11	0.4	0.01	0.03	0.87	99.50
40210961		<1	23.3	2.14	164	1.1	0.02	0.026	0.022	0.001	0.20	0.8	0.01	0.08	1.99	101.49
40210962		1	32.1	3.12	238	1.4	0.02	0.010	0.028	0.001	0.18	1.4	0.02	0.08	1.88	99.12
40210963		1	51.7	4.91	370	5.9	0.03	0.015	0.048	0.001	0.25	2.1	0.01	0.11	2.29	101.05
40210964		1	44.4	4.17	313	2.5	0.05	0.055	0.050	0.001	0.45	1.8	<0.01	0.31	3.11	100.84
40210965		1	29.3	2.89	222	3.1	0.04	0.062	0.045	0.001	0.65	1.1	0.01	0.39	2.54	100.83
40210966		1	28.3	2.78	210	1.7	0.04	0.011	0.023	0.001	0.15	1.0	<0.01	0.10	1.99	98.69
40210967		1	29.4	2.66	210	1.3	0.05	0.012	0.018	0.001	0.16	0.7	0.01	0.07	1.54	101.38



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001
40210930		<0.5	<5	<0.5	54	112	10	1	292	<2	15	<10	78	0.001	<0.005	0.006
40210930 CRD		<0.5	<5	<0.5	51	108	10	<1	283	<2	15	<10	74	0.001	<0.005	0.006
40210931		<0.5	<5	<0.5	13	19	50	1	52	10	14	<10	56	<0.001	<0.005	0.001
40210932		<0.5	7	<0.5	12	23	50	1	50	2	13	<10	69	<0.001	<0.005	0.001
40210933		<0.5	<5	<0.5	13	79	40	3	44	6	12	<10	55	<0.001	<0.005	0.001
40210934		<0.5	6	<0.5	13	33	50	2	52	6	14	<10	68	<0.001	<0.005	0.001
40210935		<0.5	13	<0.5	20	90	60	8	76	6	19	<10	141	<0.001	<0.005	0.002
40210936		<0.5	15	<0.5	18	96	60	9	75	10	19	<10	143	<0.001	<0.005	0.002
40210937		<0.5	<5	<0.5	13	42	50	2	48	<2	13	<10	58	<0.001	<0.005	0.001
40210938		<0.5	5	<0.5	17	25	60	2	65	3	17	<10	81	<0.001	<0.005	0.001
40210939		<0.5	7	<0.5	15	41	60	6	64	7	17	<10	109	<0.001	<0.005	0.001
40210940		0.5	5	<0.5	65	1110	40	2	692	<2	19	<10	106	0.021	0.049	0.187
40210941		<0.5	<5	<0.5	13	27	80	<1	50	3	13	<10	60	<0.001	<0.005	0.001
40210942		<0.5	7	<0.5	9	10	80	1	38	4	10	10	44	<0.001	<0.005	0.001
40210943		<0.5	10	<0.5	15	33	70	4	58	9	15	<10	88	<0.001	<0.005	0.001
40210944		<0.5	5	<0.5	18	53	70	7	75	4	19	<10	78	<0.001	<0.005	0.002
40210945		<0.5	13	<0.5	17	49	60	3	64	8	16	<10	69	0.001	<0.005	0.001
40210946		<0.5	6	<0.5	19	63	60	5	77	3	19	10	60	<0.001	<0.005	0.002
40210947		<0.5	<5	<0.5	19	130	50	4	72	4	18	<10	65	<0.001	<0.005	0.002
40210948		<0.5	<5	<0.5	27	191	60	4	86	5	22	<10	80	<0.001	<0.005	0.004
40210949		<0.5	<5	<0.5	31	173	30	2	24	3	19	<10	103	0.001	<0.005	0.006
40210950		<0.5	<5	<0.5	31	167	30	1	26	2	20	10	104	0.001	<0.005	0.006
40210950 CRD		<0.5	<5	<0.5	31	172	30	1	28	6	20	<10	104	0.001	<0.005	0.006
40210951		<0.5	<5	<0.5	30	197	30	1	23	7	17	<10	97	0.001	<0.005	0.005
40210952		<0.5	<5	<0.5	27	176	30	1	23	3	15	<10	72	0.001	<0.005	0.008
40210953		<0.5	8	<0.5	25	116	40	7	25	<2	14	<10	77	0.001	<0.005	0.011
40210954		<0.5	7	<0.5	26	191	40	3	22	4	14	<10	74	0.001	<0.005	0.007
40210955		<0.5	8	<0.5	26	162	50	7	21	<2	14	10	68	0.001	<0.005	0.006
40210956		<0.5	<5	<0.5	24	140	40	1	21	3	13	<10	66	0.001	<0.005	0.006
40210957		<0.5	<5	<0.5	29	166	40	1	25	2	15	<10	79	<0.001	<0.005	0.006
40210958		<0.5	5	<0.5	26	127	40	<1	27	<2	14	<10	75	0.002	<0.005	0.006
40210959		<0.5	<5	<0.5	25	194	40	2	20	<2	16	<10	72	0.002	<0.005	0.006
40210960		<0.5	<5	<0.5	61	120	10	<1	329	<2	17	<10	85	0.002	<0.005	0.007
40210961		<0.5	<5	<0.5	25	154	30	1	21	<2	14	<10	65	0.001	<0.005	0.006
40210962		<0.5	<5	<0.5	31	197	30	1	20	<2	19	<10	87	0.003	<0.005	0.005
40210963		<0.5	7	<0.5	42	284	30	2	10	6	26	<10	150	0.003	<0.005	<0.001
40210964		<0.5	<5	<0.5	39	396	40	2	17	3	26	<10	125	0.006	0.006	0.004
40210965		<0.5	<5	<0.5	29	200	40	4	23	<2	18	<10	85	0.003	<0.005	0.008
40210966		<0.5	<5	<0.5	34	224	40	<1	26	<2	21	<10	91	0.003	0.005	0.021
40210967		<0.5	<5	<0.5	34	231	40	<1	30	5	22	10	89	0.002	<0.005	0.008



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 Na2O %	ME-ICP06 MgO %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %
40210968		11.70	0.01	0.01	50.7	16.05	12.60	6.45	3.28	3.15	3.15	<0.01	2.69	0.15	0.36	0.11
40210969		12.15			50.7	15.80	12.65	6.59	3.34	2.97	3.01	<0.01	2.82	0.16	0.37	0.11
40210970		0.16			44.1	18.10	11.95	9.52	2.12	7.35	1.07	0.35	1.30	0.15	0.14	0.04
40210971		11.94			51.1	15.70	13.05	6.60	3.18	3.06	3.04	<0.01	2.90	0.16	0.37	0.11
40210971 CRD		<0.02			50.8	15.50	13.00	6.62	3.16	3.06	3.01	<0.01	2.90	0.16	0.36	0.11
40210972		10.96			50.5	15.55	13.00	6.01	2.91	3.28	3.04	<0.01	2.91	0.16	0.36	0.09
40210973		12.01			49.8	14.35	14.15	6.16	2.84	3.47	2.48	<0.01	2.97	0.17	0.43	0.05
40210974		11.99			50.6	14.05	14.70	6.13	2.62	3.36	3.17	<0.01	3.10	0.18	0.43	0.10

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
40210968		0.06	0.05	0.05	491	59.3	10	1.71	5.73	2.96	2.44	23.9	7.05	<5	4.9	1.17
40210969		0.06	0.01	0.05	539	57.2	10	1.53	5.74	3.04	2.30	24.1	7.05	<5	5.5	1.15
40210970		0.04	0.01	0.34	349	26.9	2480	2.45	3.61	1.93	1.28	20.1	3.50	<5	2.6	0.71
40210971		0.06	0.01	0.05	562	60.6	10	1.30	6.14	3.10	2.37	23.7	6.97	<5	5.6	1.15
40210971 CRD		0.06	0.01	0.06	549	59.5	10	1.27	6.13	3.07	2.52	23.2	6.93	<5	5.1	1.17
40210972		0.13	0.03	0.15	1100	60.2	10	1.96	5.95	3.11	2.41	23.6	7.17	<5	5.3	1.19
40210973		0.16	0.08	0.09	1400	69.4	10	2.72	7.19	3.82	2.60	23.9	8.34	<5	6.0	1.36
40210974		0.08	0.03	0.06	701	70.9	10	1.73	6.93	3.62	2.63	24.5	8.53	<5	6.2	1.40

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40210968		27.4	0.35	17.7	33.8	7.66	101.5	7.59	2	989	1.1	1.01	3.23	0.41	0.92	251
40210969		25.8	0.36	17.8	31.9	7.64	100.5	7.04	2	933	1.1	0.98	3.24	0.39	0.95	251
40210970		12.6	0.27	7.4	15.6	3.44	33.0	3.43	2	381	0.3	0.61	1.17	0.28	0.33	194
40210971		27.1	0.38	18.6	34.0	7.91	97.5	7.76	2	963	1.1	1.07	3.56	0.45	1.02	258
40210971 CRD		27.0	0.40	18.5	33.7	7.76	95.7	7.36	2	951	1.0	1.02	3.39	0.39	0.98	256
40210972		27.4	0.38	18.6	33.6	7.79	102.0	7.42	2	781	1.1	1.07	3.33	0.42	0.97	264
40210973		31.1	0.49	21.4	39.3	9.31	82.6	8.38	2	520	1.2	1.21	3.90	0.49	1.13	262
40210974		32.6	0.46	21.9	39.4	9.26	106.5	9.08	3	871	1.3	1.22	3.89	0.48	1.13	288

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
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Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40210968		1	28.3	2.65	198	1.8	0.04	0.008	0.015	0.001	0.12	0.8	0.01	0.04	1.54	100.29
40210969		<1	27.3	2.70	203	1.1	0.04	0.006	0.014	0.002	0.16	1.0	0.01	0.03	1.36	99.94
40210970		<1	17.7	1.82	100	5.2	0.13	0.016	0.031	0.003	0.42	1.3	0.05	0.43	1.90	98.13
40210971		<1	28.8	2.79	220	1.8	0.03	0.009	0.013	0.001	0.14	0.9	<0.01	0.04	1.31	100.64
40210971 CRD		1	28.4	2.67	200	1.3	0.03	0.006	0.016	0.001	0.13	0.8	<0.01	0.04	1.36	100.10
40210972		1	28.6	2.68	203	1.4	0.03	0.014	0.021	0.001	0.20	0.9	0.01	0.09	1.70	99.64
40210973		1	33.4	3.18	239	1.8	0.04	0.014	0.031	0.002	0.17	1.1	0.01	0.07	1.85	98.88
40210974		1	33.9	3.17	240	1.5	0.04	0.006	0.020	0.001	0.16	1.2	<0.01	0.06	1.48	100.00



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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		Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.001	0.005	0.001	
40210968		<0.5	<5	<0.5	36	238	30	<1	32	<2	21	<10	88	0.002	<0.005	0.007
40210969		<0.5	<5	<0.5	34	230	30	<1	35	<2	19	<10	86	0.003	<0.005	0.007
40210970		<0.5	<5	<0.5	63	1110	40	1	700	3	17	<10	105	0.021	0.039	0.209
40210971		<0.5	<5	<0.5	35	237	30	<1	33	<2	20	<10	86	0.002	<0.005	0.007
40210971 CRD		<0.5	<5	<0.5	36	241	30	<1	34	2	20	<10	89	0.003	<0.005	0.007
40210972		<0.5	<5	<0.5	38	232	40	<1	38	<2	21	10	94	0.003	<0.005	0.007
40210973		<0.5	<5	<0.5	38	292	40	<1	38	5	23	<10	120	0.002	<0.005	0.005
40210974		<0.5	<5	<0.5	41	293	30	<1	37	<2	25	<10	139	0.003	<0.005	0.009

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



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Account: KAV

Project: EB80002677

CERTIFICATE OF ANALYSIS TB15099047

	CERTIFICATE COMMENTS												
	LABORATORY ADDRESSES												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-04</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>LOG-21d</td> <td>LOG-23</td> <td>PUL-32</td> <td>PUL-32d</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>SPL-21d</td> <td>WEI-21</td> </tr> </table>	BAG-04	CRU-31	CRU-QC	LOG-21	LOG-21d	LOG-23	PUL-32	PUL-32d	PUL-QC	SPL-21	SPL-21d	WEI-21
BAG-04	CRU-31	CRU-QC	LOG-21										
LOG-21d	LOG-23	PUL-32	PUL-32d										
PUL-QC	SPL-21	SPL-21d	WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08	TOT-ICP06			
C-IR07	ME-4ACD81	ME-ICP06	ME-MS42										
ME-MS81	OA-GRA05	PGM-ICP24	S-IR08										
TOT-ICP06													



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE TB15112733

Project: EB80002678
 P.O. No.: 3101202290
 This report is for 89 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 29-JUL-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

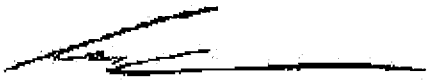
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

To: **RIO TINTO EXPLORATION CANADA INC.**
ATTN: BRIAN GOLDNER
354-200 GRANVILLE STREET
VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte Units LOR	Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40211293		5.23	86.7	85.6	64.0	16.70	7.13	0.67	1.55	2.80	4.76	0.02	0.70	0.03	0.11	0.03
40211294		5.83			51.0	16.85	12.35	2.97	2.48	6.48	2.28	0.03	1.29	0.13	0.15	0.04
40211295		6.11			58.8	13.55	10.60	3.58	2.26	3.49	1.93	0.02	1.70	0.11	0.22	0.04
40211296		6.19			52.3	14.15	14.10	6.47	2.56	4.95	1.26	0.02	2.45	0.16	0.26	0.05
40211297		5.45			47.7	15.90	13.05	9.41	2.26	7.85	0.90	0.03	1.33	0.17	0.14	0.04
40211298		0.99			46.2	16.85	12.10	8.05	2.05	8.38	1.51	0.02	1.22	0.16	0.14	0.06
40211299		3.23			46.9	16.90	11.95	8.84	2.16	8.58	0.96	0.02	1.26	0.15	0.15	0.05
40211300		0.16			44.3	18.65	12.10	9.50	2.15	7.62	1.07	0.34	1.29	0.14	0.15	0.04
40211301		2.85			46.3	17.05	12.80	9.70	2.41	8.84	0.62	0.02	1.32	0.16	0.15	0.04
40211302		3.35			46.5	17.40	12.15	9.76	2.48	8.58	0.57	0.02	1.25	0.15	0.15	0.04
40211303		3.25			46.3	16.65	12.65	9.37	2.40	8.28	0.85	0.02	1.40	0.16	0.18	0.05
40211304		6.45			46.4	16.05	13.40	9.36	2.41	7.45	0.89	0.02	1.64	0.17	0.19	0.05
40211305		6.74			46.4	15.60	13.60	9.77	2.49	7.19	0.75	0.03	1.74	0.18	0.20	0.04
40211306		6.44			45.7	15.25	13.50	9.87	2.49	7.09	0.61	0.02	1.72	0.18	0.20	0.04
40211307		6.51			46.6	16.00	13.50	9.95	2.53	7.53	0.64	0.02	1.66	0.17	0.19	0.04
40211308		6.50			46.2	15.75	13.40	9.98	2.47	7.45	0.60	0.02	1.67	0.17	0.19	0.04
40211309		2.85			46.6	15.70	13.50	9.67	2.48	7.55	0.73	0.03	1.68	0.17	0.20	0.04
40211310		3.00			46.6	15.65	13.45	9.67	2.45	7.51	0.76	0.03	1.67	0.17	0.19	0.04
40211311		6.04			46.0	15.70	13.25	9.42	2.35	7.50	1.02	0.02	1.63	0.17	0.19	0.05
40211312		6.47			45.4	15.85	13.40	8.95	2.36	7.71	1.03	0.03	1.69	0.17	0.20	0.05
40211312 CRD		<0.02			46.2	16.00	13.90	9.05	2.40	7.66	1.02	0.03	1.71	0.17	0.20	0.05
40211313		6.23			46.4	15.90	13.50	9.45	2.43	7.53	0.94	0.03	1.66	0.17	0.18	0.05
40211314		6.24			46.7	15.85	13.65	9.86	2.57	7.39	0.68	0.02	1.74	0.18	0.20	0.04
40211315		6.45			46.4	16.00	13.35	9.59	2.42	7.42	0.90	0.02	1.70	0.17	0.19	0.05
40211316		6.17			46.5	15.80	13.50	9.57	2.45	7.61	0.81	0.03	1.71	0.18	0.19	0.04
40211317		6.31			46.5	15.55	13.75	9.89	2.53	7.49	0.54	0.03	1.74	0.18	0.20	0.03
40211318		6.40			46.7	15.95	13.60	10.05	2.52	7.59	0.51	0.04	1.69	0.17	0.20	0.04
40211319		5.99			46.9	15.95	13.60	9.97	2.53	7.64	0.56	0.03	1.76	0.18	0.22	0.03
40211320		0.96			45.7	18.90	10.25	10.10	2.41	9.32	0.30	0.02	1.09	0.12	0.11	0.03
40211321		2.94			46.9	15.80	13.40	9.54	2.57	7.52	0.59	0.03	1.71	0.17	0.11	0.03
40211322		2.41			47.0	15.75	13.25	9.25	2.46	7.30	0.72	0.02	1.68	0.16	0.06	0.03
40211323		0.75			71.0	13.00	3.17	0.98	4.22	1.42	4.10	<0.01	0.36	0.05	0.10	0.01
40211324		2.93			47.0	15.85	13.10	9.63	2.39	7.47	0.59	0.03	1.78	0.16	0.06	0.04
40211325		2.81			48.4	15.75	12.95	9.30	2.49	7.36	0.77	0.03	1.68	0.16	0.08	0.03
40211326		2.96			48.0	16.00	12.65	9.96	2.26	7.70	0.62	0.03	1.92	0.14	0.06	0.03
40211327		2.68			52.1	16.80	9.91	8.51	2.18	7.36	0.91	0.03	0.52	0.12	0.04	0.04
40211328		3.48			51.1	17.85	10.55	5.59	1.86	7.58	1.81	0.03	0.64	0.10	0.08	0.04
40211329		2.81			48.9	17.85	12.60	6.00	1.79	7.81	1.67	0.05	0.67	0.11	0.08	0.04
40211330		0.17			44.4	18.75	12.10	9.55	2.17	7.59	1.04	0.35	1.29	0.14	0.15	0.05
40211331		3.20			47.5	16.85	14.00	7.07	2.03	7.95	1.03	0.03	0.69	0.13	0.08	0.04



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211293		0.14	0.11	0.16	1225	58.9	160	3.52	4.63	2.48	1.20	20.5	4.97	<5	4.5	0.96
40211294		0.07	0.11	0.08	673	45.1	180	3.58	4.81	2.68	1.25	23.4	4.70	<5	3.9	0.93
40211295		0.09	0.03	0.13	783	56.5	100	2.82	5.03	2.76	1.59	18.7	5.65	<5	5.4	0.95
40211296		0.05	0.12	0.28	487	53.2	110	3.89	5.60	3.08	1.95	20.9	5.95	<5	5.1	1.11
40211297		0.03	0.01	0.11	220	21.1	210	3.03	3.47	1.94	1.10	17.3	3.53	<5	2.5	0.71
40211298		0.04	0.13	0.10	360	21.4	150	2.47	3.34	1.88	1.22	18.8	3.43	<5	2.4	0.69
40211299		0.02	0.02	0.10	200	24.5	150	2.85	3.48	1.89	1.18	17.5	3.81	<5	2.5	0.72
40211300		0.04	0.04	0.35	337	27.6	2440	2.24	3.47	2.14	1.30	20.5	3.57	<5	2.9	0.73
40211301		0.02	0.03	0.20	163.0	23.7	170	2.75	3.36	2.16	1.31	19.4	3.60	<5	2.6	0.70
40211302		0.02	0.01	0.11	171.5	24.2	160	2.58	3.63	2.09	1.29	19.7	3.58	<5	2.6	0.71
40211303		0.02	0.01	0.07	201	26.9	160	3.04	4.01	2.18	1.42	19.6	3.94	<5	2.8	0.78
40211304		0.03	0.02	0.14	248	31.3	180	3.64	4.54	2.73	1.50	22.0	4.70	<5	3.5	0.87
40211305		0.02	0.02	0.12	194.0	32.5	180	3.16	4.72	2.76	1.61	21.0	4.69	<5	3.5	0.95
40211306		0.02	0.01	0.10	176.0	32.3	190	3.69	4.72	2.90	1.58	21.2	4.91	<5	3.4	0.99
40211307		0.02	0.02	0.07	175.5	31.4	190	3.79	4.58	2.48	1.55	20.8	4.77	<5	3.4	0.89
40211308		0.02	0.01	0.09	179.5	32.1	190	3.73	4.65	2.63	1.53	21.7	4.71	<5	3.4	0.93
40211309		0.02	0.01	0.06	202	33.6	180	4.16	4.72	2.67	1.49	20.8	4.85	<5	3.4	0.91
40211310		0.02	0.01	0.05	204	33.3	190	3.87	4.61	2.83	1.62	21.3	4.90	<5	3.3	0.98
40211311		0.03	0.02	0.06	239	31.9	190	3.42	4.60	2.66	1.52	21.3	4.60	<5	3.3	0.92
40211312		0.04	0.09	0.21	398	32.1	190	2.80	4.69	2.71	1.51	22.2	4.82	<5	3.3	0.96
40211312 CRD		0.04	0.10	0.20	402	32.5	180	2.66	4.49	2.63	1.46	22.0	4.88	<5	3.3	0.89
40211313		0.04	0.03	0.12	398	30.6	190	3.16	4.31	2.52	1.45	20.7	4.67	<5	3.4	0.89
40211314		0.02	0.02	0.06	226	33.3	190	2.80	4.65	2.87	1.56	21.3	4.76	<5	3.5	0.99
40211315		0.03	0.01	0.15	272	31.0	190	3.00	4.58	2.58	1.48	21.0	4.68	<5	3.4	0.93
40211316		0.03	0.04	0.07	252	32.0	190	3.25	4.62	2.51	1.52	21.5	4.64	<5	3.3	0.97
40211317		0.02	0.01	0.07	189.5	31.7	190	2.47	4.46	2.72	1.56	21.2	4.64	<5	3.3	0.95
40211318		0.02	0.01	0.06	176.5	30.8	270	2.92	4.63	2.70	1.54	20.7	4.65	<5	3.4	0.94
40211319		0.02	0.03	0.07	181.0	26.6	190	2.76	3.99	2.31	1.47	20.3	4.15	<5	2.7	0.83
40211320		0.01	0.02	0.04	123.5	21.2	150	1.25	2.74	1.69	1.07	19.3	2.81	<5	2.2	0.58
40211321		0.02	0.01	0.13	165.5	21.6	190	3.11	3.33	1.87	1.23	20.5	3.30	<5	2.3	0.65
40211322		0.02	0.01	0.26	163.0	18.5	180	3.56	2.70	1.68	1.16	19.5	2.85	<5	1.6	0.54
40211323		0.06	0.08	0.02	581	56.0	20	0.49	2.59	1.35	0.70	15.6	2.97	<5	3.9	0.52
40211324		0.01	0.01	0.07	135.0	16.7	200	3.50	2.41	1.45	1.12	19.4	2.64	<5	1.7	0.54
40211325		0.02	0.01	0.09	180.0	20.5	190	3.09	2.68	1.51	1.07	18.9	3.04	<5	2.0	0.50
40211326		0.01	0.01	0.02	130.5	16.4	200	2.91	2.29	1.45	0.92	19.3	2.69	<5	1.6	0.46
40211327		0.02	0.01	0.08	161.5	19.1	240	2.89	1.74	1.18	0.98	18.3	1.89	<5	1.5	0.38
40211328		0.03	0.02	0.22	265	28.7	250	3.88	2.35	1.36	1.40	20.0	2.58	<5	2.1	0.49
40211329		0.03	0.02	0.92	286	23.9	360	3.51	2.15	1.43	1.38	20.5	2.32	<5	1.9	0.48
40211330		0.04	0.03	0.33	361	29.0	2580	2.26	3.73	2.27	1.32	21.4	3.94	<5	3.0	0.73
40211331		0.01	0.01	1.39	131.5	18.7	260	2.02	2.24	1.34	1.20	17.9	2.21	<5	1.6	0.44



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Project: EB80002678

CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40211293		29.6	0.45	10.2	28.9	7.39	148.0	5.63	1	231	0.6	0.75	8.72	0.39	9.30	155
40211294		20.9	0.39	9.4	24.1	6.03	84.9	5.19	1	317	0.5	0.73	4.63	0.39	5.34	227
40211295		25.8	0.35	13.7	29.8	7.32	58.9	6.09	1	333	0.8	0.84	5.21	0.38	2.34	206
40211296		24.1	0.40	15.5	29.2	7.12	50.5	6.40	2	398	0.9	0.90	3.90	0.43	2.09	309
40211297		9.4	0.25	6.1	13.0	2.91	30.2	3.32	1	376	0.3	0.53	0.84	0.26	0.24	218
40211298		9.5	0.25	6.1	13.3	2.92	56.4	3.15	2	455	0.3	0.53	0.84	0.28	0.22	186
40211299		11.1	0.26	6.6	14.9	3.31	34.6	3.44	1	408	0.3	0.61	1.30	0.27	0.21	183
40211300		12.6	0.30	7.9	14.5	3.69	34.7	3.95	2	402	0.4	0.57	1.45	0.29	0.43	194
40211301		10.4	0.27	6.9	13.2	3.21	21.3	3.37	1	343	0.4	0.56	1.03	0.31	0.37	197
40211302		10.6	0.28	7.0	13.4	3.27	20.7	3.23	1	353	0.4	0.56	0.94	0.29	0.34	191
40211303		12.2	0.32	7.7	15.1	3.68	32.9	3.65	1	406	0.4	0.62	1.07	0.31	0.32	214
40211304		13.7	0.37	9.5	18.4	4.14	36.3	4.55	1	378	0.5	0.76	1.30	0.37	0.35	254
40211305		14.4	0.37	9.4	18.3	4.34	27.8	4.29	1	357	0.5	0.78	1.32	0.39	0.32	264
40211306		14.3	0.37	9.4	17.7	4.39	22.6	4.44	1	327	0.6	0.79	1.34	0.38	0.34	259
40211307		13.8	0.35	9.1	17.8	4.16	24.8	4.56	1	348	0.5	0.74	1.23	0.41	0.32	256
40211308		14.3	0.37	9.6	18.3	4.31	23.5	4.51	1	346	0.5	0.71	1.26	0.36	0.34	264
40211309		15.0	0.36	12.2	18.7	4.50	28.3	4.70	1	351	0.6	0.72	1.51	0.39	0.38	252
40211310		14.9	0.39	10.3	19.0	4.42	30.1	4.79	1	371	0.5	0.79	1.43	0.42	0.38	266
40211311		14.1	0.38	9.5	17.6	4.37	40.5	4.51	1	443	0.5	0.77	1.25	0.40	0.31	252
40211312		14.3	0.35	9.8	18.2	4.33	40.4	4.46	1	402	0.5	0.77	1.29	0.40	0.31	260
40211312 CRD		14.2	0.35	9.5	18.1	4.28	39.5	4.33	1	399	0.5	0.75	1.38	0.39	0.33	255
40211313		13.4	0.37	9.1	17.0	4.10	37.2	4.49	1	387	0.5	0.70	1.21	0.36	0.34	254
40211314		14.9	0.35	9.9	18.6	4.41	24.2	4.45	1	353	0.5	0.80	1.29	0.40	0.30	265
40211315		13.8	0.35	9.5	17.8	4.20	32.1	4.34	1	399	0.5	0.78	1.28	0.41	0.34	255
40211316		14.2	0.39	9.6	18.0	4.26	29.5	4.43	1	385	0.5	0.73	1.26	0.42	0.35	262
40211317		14.1	0.36	9.6	18.7	4.26	18.5	4.55	1	310	0.5	0.78	1.27	0.39	0.32	262
40211318		13.5	0.37	9.3	17.6	4.23	17.6	4.23	1	303	0.5	0.72	1.22	0.38	0.33	255
40211319		11.8	0.34	8.6	15.8	3.58	21.3	3.84	1	321	0.5	0.68	1.15	0.33	0.41	259
40211320		9.6	0.24	6.7	11.2	2.75	7.9	2.73	1	284	0.3	0.46	0.91	0.25	0.26	134
40211321		9.7	0.29	8.0	12.0	2.86	26.8	3.11	1	307	0.4	0.53	1.37	0.27	0.66	238
40211322		8.5	0.22	6.5	10.3	2.48	33.7	2.49	1	317	0.4	0.48	1.43	0.24	0.84	215
40211323		27.9	0.21	7.8	22.5	6.30	106.5	4.04	1	115.5	0.6	0.48	7.35	0.21	2.34	38
40211324		7.6	0.19	5.4	9.7	2.13	27.8	2.58	<1	315	0.4	0.40	1.16	0.19	0.64	258
40211325		9.4	0.22	5.8	11.0	2.73	31.9	2.70	1	303	0.4	0.45	1.76	0.23	0.88	220
40211326		7.6	0.20	5.2	8.7	2.27	24.6	2.21	1	301	0.3	0.39	1.36	0.19	0.69	248
40211327		9.2	0.16	3.4	9.2	2.28	39.6	1.94	1	310	0.2	0.28	2.10	0.16	1.25	181
40211328		14.0	0.26	5.2	13.8	3.57	74.5	2.93	1	386	0.3	0.39	2.63	0.21	1.55	223
40211329		11.8	0.22	5.0	11.9	2.98	65.5	2.59	1	381	0.2	0.34	2.06	0.20	1.12	265
40211330		13.1	0.30	8.5	15.6	3.89	36.4	3.71	2	431	0.5	0.63	1.39	0.33	0.41	184
40211331		8.6	0.21	4.5	9.5	2.30	42.9	2.05	1	391	0.2	0.34	1.20	0.19	0.55	221



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm 1	Y ppm 0.5	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	LOI % 0.01	Total % 0.01
40211293		1	23.3	2.83	160	7.6	0.06	0.034	0.015	0.006	0.28	0.7	0.03	0.38	3.26	101.90
40211294		1	23.9	2.54	145	13.9	0.20	0.030	0.045	0.005	0.16	0.9	0.03	0.31	4.35	100.47
40211295		1	24.0	2.46	196	2.3	0.03	0.017	0.033	0.001	0.35	0.8	0.01	0.22	2.29	98.68
40211296		1	27.1	2.61	193	7.1	0.04	0.023	0.031	0.002	0.49	0.9	<0.01	0.53	1.56	100.34
40211297		<1	17.1	1.83	89	2.2	0.03	0.011	0.015	0.001	0.11	0.4	<0.01	0.40	1.21	100.02
40211298		<1	16.9	1.68	87	7.0	0.07	0.021	0.013	0.001	0.11	0.5	0.01	0.63	3.95	100.73
40211299		<1	17.7	1.86	89	2.9	0.03	0.007	0.013	0.001	0.10	0.7	<0.01	0.55	1.19	99.13
40211300		1	18.9	1.76	117	5.0	0.14	0.009	0.033	0.002	0.30	1.4	0.05	0.45	2.14	99.53
40211301		<1	18.5	1.89	98	2.0	0.04	0.005	0.014	0.001	0.05	0.8	<0.01	0.44	0.83	100.26
40211302		<1	18.1	1.85	101	0.6	0.04	<0.005	0.014	0.001	0.11	0.6	<0.01	0.48	0.79	99.86
40211303		<1	20.1	2.12	111	5.4	0.02	0.005	0.013	0.001	0.28	0.5	0.01	0.46	1.12	99.45
40211304		<1	24.6	2.38	134	3.6	0.02	0.007	0.012	0.001	0.09	0.7	0.01	0.65	1.65	99.71
40211305		<1	24.7	2.55	138	2.7	0.03	0.007	0.013	0.001	0.09	0.6	<0.01	0.45	1.47	99.48
40211306		<1	24.7	2.58	134	2.5	0.02	<0.005	0.015	0.001	0.17	0.6	<0.01	0.33	1.33	98.02
40211307		<1	23.6	2.37	128	2.1	0.01	<0.005	0.013	0.001	0.21	0.6	<0.01	0.35	1.28	100.13
40211308		<1	24.5	2.57	133	1.4	0.01	<0.005	0.011	0.001	0.14	0.5	<0.01	0.28	0.92	98.88
40211309		<1	24.2	2.60	132	0.6	0.01	<0.005	0.012	0.001	0.06	0.6	<0.01	0.35	0.93	99.30
40211310		<1	25.3	2.46	132	0.9	0.01	0.005	0.014	0.001	0.08	0.7	<0.01	0.35	0.90	99.11
40211311		<1	24.1	2.42	130	3.0	0.02	0.007	0.015	0.001	0.22	0.5	<0.01	0.65	1.20	98.53
40211312		<1	24.7	2.45	129	5.0	0.04	<0.005	0.016	0.001	0.07	0.6	<0.01	0.50	2.70	99.58
40211312 CRD		<1	24.4	2.40	132	5.6	0.05	<0.005	0.015	0.001	0.06	0.4	<0.01	0.48	2.83	101.26
40211313		<1	23.5	2.39	127	2.6	0.02	<0.005	0.014	0.001	0.06	0.8	<0.01	0.47	1.39	99.67
40211314		<1	25.3	2.44	136	0.6	0.01	<0.005	0.012	0.001	0.12	0.6	<0.01	0.29	0.70	99.60
40211315		<1	23.7	2.42	134	3.3	0.02	<0.005	0.014	0.001	0.06	0.6	<0.01	0.41	1.58	99.82
40211316		<1	24.4	2.48	132	0.5	0.01	<0.005	0.014	0.001	0.06	0.5	<0.01	0.70	1.37	99.79
40211317		<1	24.1	2.46	134	0.7	0.01	<0.005	0.015	0.001	0.07	0.7	<0.01	0.27	0.73	99.18
40211318		<1	23.9	2.32	127	0.9	0.01	<0.005	0.013	0.001	0.07	0.6	0.01	0.24	0.68	99.76
40211319		<1	21.3	2.10	104	0.8	0.01	<0.005	0.015	0.001	0.07	0.5	<0.01	0.70	1.00	100.39
40211320		<1	14.8	1.51	85	0.3	0.01	<0.005	0.015	0.001	<0.05	0.5	<0.01	0.04	1.04	99.40
40211321		<1	17.1	1.68	84	1.6	0.02	<0.005	0.019	0.001	0.08	0.4	<0.01	0.51	1.14	99.53
40211322		<1	14.2	1.50	63	3.3	0.02	0.006	0.016	0.001	0.10	0.6	<0.01	0.65	1.11	98.81
40211323		1	13.8	1.30	148	1.7	0.03	<0.005	0.016	<0.001	0.09	0.5	<0.01	0.05	1.60	100.07
40211324		<1	13.5	1.26	61	2.4	0.01	<0.005	0.009	<0.001	0.10	0.3	<0.01	0.43	0.99	99.10
40211325		<1	14.1	1.53	70	1.7	0.01	<0.005	0.010	0.001	0.11	0.3	0.01	0.34	0.92	99.94
40211326		1	12.3	1.30	59	1.6	0.01	<0.005	0.011	<0.001	0.11	0.3	<0.01	0.42	0.73	100.11
40211327		<1	10.2	1.13	55	2.3	0.02	<0.005	0.007	0.001	0.14	0.3	0.01	0.34	1.62	100.16
40211328		1	13.0	1.47	83	7.4	0.05	<0.005	0.020	0.002	0.18	0.6	0.01	0.34	2.58	99.84
40211329		1	12.3	1.20	73	14.4	0.05	<0.005	0.011	0.002	0.18	0.9	0.03	0.95	2.72	100.32
40211330		1	20.1	1.80	120	6.0	0.15	0.009	0.032	0.003	0.35	1.4	0.06	0.45	2.13	99.75
40211331		<1	11.7	1.22	62	7.4	0.44	0.009	0.021	0.004	0.15	1.1	0.08	1.09	1.89	99.30



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Project: EB80002678

CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40211332		3.14			48.5	17.45	11.15	8.47	2.45	7.55	0.89	0.03	0.98	0.15	0.11	0.04
40211332 CRD		<0.02			48.4	17.25	11.50	8.48	2.39	7.43	0.87	0.03	0.96	0.15	0.11	0.05
40211333		2.81			48.6	17.90	9.93	10.75	2.50	7.64	0.47	0.04	0.69	0.13	0.06	0.03
40211334		3.29			48.4	17.50	10.40	10.45	2.42	7.83	0.41	0.03	0.61	0.14	0.06	0.03
40211335		3.13			47.8	17.70	11.55	10.45	2.32	7.32	0.53	0.03	0.76	0.13	0.07	0.04
40211336		3.13			47.2	17.35	12.40	9.51	2.19	7.49	0.71	0.04	0.73	0.12	0.07	0.03
40211337		3.13			48.0	16.90	12.05	8.72	2.38	7.08	0.78	0.02	1.12	0.13	0.13	0.02
40211338		3.05			46.9	20.3	10.05	10.75	2.46	7.22	0.38	0.03	0.58	0.11	0.06	0.04
40211339		1.57			45.6	17.95	11.50	10.45	2.26	7.52	0.50	0.04	0.61	0.12	0.05	0.03
40211340		1.58	75.3	87.0	47.4	18.10	12.05	10.95	2.33	7.88	0.49	0.05	0.65	0.13	0.06	0.02
40211341		2.15			51.6	14.30	13.00	8.84	2.76	5.69	1.02	0.02	2.19	0.17	0.16	0.03
40211342		0.88			73.6	12.80	2.79	1.71	4.38	0.64	4.30	<0.01	0.36	0.03	0.08	<0.01
40211343		3.18			47.5	16.35	13.15	9.61	2.50	7.74	0.59	0.03	1.07	0.15	0.10	0.03
40211344		3.30			47.2	19.20	10.85	10.05	2.32	7.67	0.68	0.02	0.73	0.12	0.08	0.03
40211345		3.19			47.3	17.35	10.70	9.90	2.47	8.53	0.49	0.02	0.98	0.14	0.10	0.03
40211346		3.16			46.5	17.85	10.85	10.15	2.23	8.55	0.45	0.02	0.97	0.13	0.10	0.03
40211347		3.04			48.0	16.35	11.90	10.05	2.58	7.38	0.46	0.03	1.26	0.16	0.12	0.03
40211348		3.17			49.3	16.15	11.95	10.20	2.71	7.47	0.55	0.03	1.26	0.16	0.13	0.02
40211349		3.31			48.4	16.25	12.40	10.15	2.54	7.60	0.49	0.03	1.25	0.16	0.13	0.03
40211350		1.02			46.6	18.40	10.40	9.92	2.30	9.39	0.37	0.03	0.99	0.13	0.10	0.03
40211351		3.25			47.9	16.15	12.30	10.05	2.55	7.47	0.46	0.03	1.29	0.16	0.13	0.03
40211352		3.27			48.7	16.20	12.20	10.15	2.63	7.45	0.46	0.03	1.38	0.16	0.15	0.03
40211352 CRD		<0.02			48.4	15.95	12.20	10.10	2.60	7.52	0.46	0.03	1.34	0.16	0.14	0.02
40211353		3.22			48.6	15.95	12.15	10.15	2.58	7.28	0.49	0.03	1.45	0.16	0.15	0.03
40211354		3.27			48.8	16.25	12.00	10.10	2.58	7.45	0.51	0.03	1.34	0.16	0.14	0.03
40211355		3.32			49.1	16.30	11.70	9.84	2.61	6.80	0.72	0.03	1.36	0.15	0.11	0.03
40211356		3.12			52.3	15.55	10.30	9.96	2.91	5.61	0.98	0.03	1.21	0.15	0.11	0.03
40211357		3.06			49.8	15.85	12.20	9.88	2.78	6.46	0.74	0.02	1.38	0.16	0.10	0.03
40211358		3.18			49.1	16.05	12.45	10.00	2.64	7.06	0.55	0.03	1.47	0.17	0.11	0.03
40211359		3.16			48.7	16.00	12.20	10.10	2.59	7.19	0.52	0.03	1.45	0.16	0.15	0.03
40211360		0.16			45.1	18.30	12.45	9.41	2.19	7.47	1.09	0.36	1.32	0.15	0.15	0.04
40211361		6.45			49.1	16.00	12.45	10.15	2.66	7.33	0.50	0.03	1.49	0.17	0.16	0.02
40211362		6.34			48.9	16.05	12.30	10.20	2.67	7.23	0.55	0.03	1.46	0.16	0.16	0.02
40211363		6.40			49.1	16.20	12.30	10.25	2.66	7.46	0.49	0.03	1.42	0.17	0.15	0.03
40211364		6.33			49.1	16.10	12.40	10.25	2.68	7.41	0.49	0.03	1.44	0.16	0.15	0.03
40211365		6.13			48.3	16.05	12.15	10.00	2.65	7.27	0.54	0.03	1.41	0.16	0.14	0.03
40211366		6.47			48.6	16.25	11.45	9.66	2.63	7.23	0.78	0.02	1.35	0.15	0.15	0.03
40211367		6.55			48.2	16.65	12.00	10.35	2.64	7.65	0.42	0.03	1.41	0.16	0.15	0.03
40211368		6.18			47.6	16.55	11.80	10.35	2.62	7.56	0.43	0.03	1.38	0.16	0.15	0.03
40211369		2.86			47.4	16.45	11.75	10.20	2.56	7.64	0.43	0.03	1.35	0.16	0.14	0.03



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte Units LOR	BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211332		0.02	0.03	0.33	202	21.8	220	1.57	3.02	1.70	1.24	19.7	2.84	<5	2.1	0.61
40211332 CRD		0.02	0.02	0.33	170.0	18.5	200	1.81	2.61	1.62	1.02	18.5	2.81	<5	1.9	0.56
40211333		0.01	0.02	0.09	85.4	12.2	270	2.07	2.00	1.22	0.81	17.2	2.21	<5	1.3	0.40
40211334		0.01	0.01	0.08	84.6	12.9	190	2.39	1.84	1.17	0.76	16.9	2.13	<5	1.4	0.41
40211335		0.01	0.02	0.78	101.0	14.0	200	2.58	2.22	1.17	0.94	16.9	2.16	<5	1.4	0.44
40211336		0.01	0.01	1.18	110.5	15.0	260	2.77	2.23	1.21	0.95	16.6	2.27	<5	1.4	0.46
40211337		0.02	0.01	0.51	174.0	27.7	150	3.06	3.70	2.02	1.17	19.5	3.80	<5	2.8	0.77
40211338		0.01	0.01	0.66	78.7	11.1	180	1.42	1.71	0.99	0.83	18.6	1.78	<5	1.2	0.37
40211339		0.01	0.01	1.16	83.7	11.0	310	2.34	1.80	1.01	0.84	17.7	1.91	<5	1.2	0.38
40211340		0.01	0.02	1.20	91.3	10.9	320	1.96	1.81	1.09	0.79	16.6	1.95	<5	1.1	0.37
40211341		0.03	0.01	0.18	213	33.9	160	1.42	4.72	2.79	1.52	22.2	4.93	<5	3.4	1.00
40211342		0.05	0.04	0.02	375	51.4	20	0.37	2.32	1.31	0.63	16.0	2.99	<5	3.6	0.49
40211343		0.01	0.02	0.93	121.0	19.4	230	1.78	3.07	1.76	1.05	19.5	3.00	<5	1.9	0.59
40211344		0.01	0.03	0.77	100.5	14.5	110	2.06	1.81	1.13	0.79	16.6	2.11	<5	1.3	0.38
40211345		0.01	0.02	0.08	116.5	19.1	160	3.24	2.84	1.75	1.09	19.1	3.03	<5	1.9	0.56
40211346		0.01	0.01	0.20	112.0	19.2	840	3.51	2.88	1.61	1.12	18.8	3.05	<5	2.1	0.55
40211347		0.02	<0.01	0.06	136.0	23.6	180	1.85	3.68	2.13	1.20	20.1	3.80	<5	2.5	0.79
40211348		0.02	0.01	0.03	141.5	24.6	200	2.03	3.50	2.04	1.23	20.3	3.93	<5	2.5	0.69
40211349		0.02	0.01	0.36	137.0	24.7	230	2.54	3.46	2.29	1.31	19.9	4.04	<5	2.6	0.74
40211350		0.01	0.02	0.05	121.0	19.7	200	1.55	2.63	1.51	0.99	19.9	2.88	<5	2.1	0.58
40211351		0.02	0.01	0.26	134.5	24.1	190	1.75	3.58	2.13	1.33	19.6	4.01	<5	2.6	0.74
40211352		0.02	0.01	0.03	144.0	26.3	210	1.69	4.07	2.31	1.30	20.6	4.49	<5	2.7	0.82
40211352 CRD		0.02	0.01	0.04	140.5	25.9	200	1.57	3.83	2.36	1.30	19.6	4.15	<5	2.8	0.78
40211353		0.02	0.01	0.03	147.0	27.2	200	1.97	4.09	2.37	1.34	20.3	4.42	<5	2.9	0.91
40211354		0.02	0.01	0.05	149.5	26.3	210	2.02	3.78	2.25	1.32	20.4	4.08	<5	2.8	0.80
40211355		0.02	0.03	0.07	152.0	22.5	200	2.27	3.18	1.84	1.21	20.0	3.54	<5	2.5	0.68
40211356		0.02	0.02	0.02	207	27.3	190	1.53	3.57	2.09	1.18	20.5	4.01	<5	2.6	0.76
40211357		0.02	0.02	0.03	166.0	21.5	140	2.11	2.86	1.74	1.01	19.1	3.12	<5	2.2	0.57
40211358		0.02	0.08	0.04	137.5	20.7	160	1.76	3.12	1.82	1.07	18.4	3.26	<5	2.2	0.62
40211359		0.02	0.01	0.05	154.5	28.1	190	2.18	3.96	2.28	1.35	20.8	4.29	<5	3.1	0.85
40211360		0.04	0.04	0.36	320	26.4	2500	2.40	3.42	2.02	1.28	21.2	3.81	<5	2.8	0.67
40211361		0.02	0.01	0.03	157.0	29.0	180	1.90	4.28	2.42	1.41	21.1	4.67	<5	3.0	0.86
40211362		0.02	0.02	0.03	153.0	27.9	190	1.93	4.15	2.41	1.54	20.9	4.17	<5	2.9	0.88
40211363		0.02	0.02	0.02	151.0	26.8	190	1.83	4.07	2.29	1.31	21.0	4.34	<5	3.0	0.83
40211364		0.02	0.07	0.03	148.5	26.9	190	1.52	3.91	2.43	1.34	20.9	4.44	<5	2.9	0.83
40211365		0.02	0.02	0.02	147.0	26.4	180	1.78	4.07	2.33	1.36	20.5	4.21	<5	2.9	0.84
40211366		0.02	0.02	0.03	164.0	26.3	160	1.94	3.77	2.09	1.29	17.4	4.24	<5	2.9	0.77
40211367		0.02	0.01	0.02	155.5	26.3	180	1.42	3.81	2.19	1.35	19.2	4.22	<5	3.3	0.82
40211368		0.02	0.01	0.02	143.0	25.1	170	1.47	3.78	2.12	1.30	17.8	4.08	<5	2.8	0.76
40211369		0.02	0.03	0.03	143.0	24.9	170	1.40	3.67	2.17	1.27	17.7	4.18	<5	2.9	0.76



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
40211332		10.2	0.24	6.2	11.7	2.90	37.4	2.77	1	406	0.3	0.51	1.11	0.26	0.37	222
40211332 CRD		8.8	0.21	5.2	10.7	2.55	33.9	2.79	1	377	0.3	0.45	1.01	0.23	0.29	207
40211333		5.7	0.14	3.3	7.5	1.72	16.2	1.83	1	305	0.2	0.36	0.65	0.16	0.24	144
40211334		6.1	0.15	3.3	7.7	1.77	13.4	1.70	1	274	0.2	0.32	0.85	0.14	0.35	137
40211335		6.4	0.17	3.6	8.5	1.88	17.9	1.96	1	297	0.2	0.39	0.84	0.17	0.30	176
40211336		7.2	0.15	3.7	9.0	2.05	23.2	1.98	1	289	0.2	0.34	0.99	0.18	0.39	196
40211337		12.7	0.29	7.4	15.6	3.74	26.2	3.77	1	287	0.5	0.61	1.80	0.29	0.84	181
40211338		5.1	0.13	3.2	6.7	1.50	11.0	1.66	1	343	0.2	0.28	0.48	0.15	0.11	117
40211339		5.2	0.13	3.0	6.7	1.52	17.4	1.83	1	335	0.2	0.31	0.44	0.16	0.12	160
40211340		5.1	0.14	2.9	6.7	1.47	14.8	1.71	1	301	0.2	0.32	0.44	0.15	0.12	161
40211341		15.4	0.38	10.0	19.7	4.45	31.8	4.57	1	278	0.6	0.77	2.29	0.39	1.07	414
40211342		25.9	0.21	7.0	22.1	6.08	97.4	3.80	1	75.4	0.6	0.43	6.79	0.18	2.11	35
40211343		9.0	0.24	5.5	12.2	2.71	19.4	2.96	1	301	0.3	0.49	1.02	0.24	0.34	226
40211344		6.7	0.16	4.1	8.5	1.87	19.8	1.91	1	308	0.3	0.34	0.80	0.15	0.21	113
40211345		8.7	0.22	5.4	11.3	2.61	15.9	2.59	1	308	0.3	0.49	0.91	0.24	0.33	170
40211346		8.6	0.21	6.2	11.0	2.61	13.7	2.70	1	296	0.4	0.48	0.85	0.22	0.19	188
40211347		11.0	0.27	7.0	13.9	3.27	12.1	3.64	1	286	0.8	0.60	1.19	0.31	0.27	220
40211348		11.3	0.28	7.1	14.7	3.31	15.7	3.53	1	282	0.5	0.61	1.26	0.31	0.31	224
40211349		11.4	0.29	9.6	14.2	3.35	13.9	3.63	1	297	0.4	0.61	1.19	0.28	0.29	225
40211350		9.1	0.19	6.1	11.3	2.65	9.0	2.69	1	290	0.3	0.46	0.96	0.21	0.23	133
40211351		11.1	0.28	7.5	14.5	3.34	12.2	3.38	1	276	0.4	0.61	1.20	0.30	0.27	221
40211352		12.1	0.31	7.9	15.4	3.55	11.6	3.92	1	265	0.5	0.68	1.26	0.32	0.30	238
40211352 CRD		11.9	0.30	7.6	15.3	3.46	11.4	3.58	1	257	0.5	0.63	1.24	0.29	0.33	230
40211353		12.2	0.31	8.2	16.3	3.68	13.2	4.07	1	261	0.5	0.69	1.28	0.31	0.32	242
40211354		12.1	0.27	7.8	15.4	3.52	15.6	3.89	1	284	0.5	0.64	1.28	0.31	0.32	238
40211355		10.4	0.25	6.6	13.0	3.15	22.6	2.97	1	285	0.4	0.54	1.25	0.26	0.38	237
40211356		12.9	0.27	7.2	15.3	3.70	29.9	3.79	1	310	0.5	0.62	1.82	0.31	0.61	257
40211357		10.1	0.21	5.9	12.1	2.95	23.3	2.85	1	263	0.4	0.51	1.48	0.24	0.51	245
40211358		9.5	0.22	6.2	11.8	2.89	15.9	3.13	1	257	0.4	0.51	1.23	0.24	0.34	231
40211359		12.9	0.31	8.4	16.5	3.84	14.8	3.91	1	276	0.5	0.70	1.38	0.33	0.35	247
40211360		12.1	0.29	7.4	15.4	3.55	33.8	3.41	2	405	0.5	0.59	1.26	0.29	0.35	184
40211361		12.9	0.33	8.4	16.7	3.95	13.7	4.19	1	269	0.5	0.72	1.48	0.36	0.34	249
40211362		12.8	0.35	8.3	16.6	3.85	15.7	3.76	1	280	0.5	0.70	1.33	0.33	0.34	250
40211363		12.5	0.31	8.3	16.0	3.70	13.4	3.88	1	277	0.5	0.69	1.35	0.36	0.35	247
40211364		12.2	0.31	8.3	15.8	3.71	12.7	3.84	1	277	0.5	0.67	1.30	0.30	0.31	248
40211365		12.0	0.32	7.7	15.4	3.57	15.8	3.78	1	285	0.5	0.67	1.23	0.31	0.31	243
40211366		12.0	0.27	7.4	15.9	3.47	26.9	3.70	1	274	0.4	0.61	1.48	0.29	0.45	230
40211367		12.1	0.31	8.2	15.2	3.60	11.6	3.80	1	263	0.5	0.69	1.38	0.32	0.35	249
40211368		11.3	0.31	7.5	15.4	3.38	11.5	3.59	1	258	0.4	0.64	1.24	0.33	0.30	235
40211369		11.4	0.28	7.3	14.6	3.34	11.4	3.54	1	255	0.4	0.66	1.23	0.30	0.29	228



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm 1	Y ppm 0.5	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	LOI %	Total %
40211332		<1	15.5	1.72	84	3.4	0.12	<0.005	0.010	0.001	0.07	0.5	0.01	0.34	1.82	99.61
40211332 CRD		<1	14.2	1.39	73	3.3	0.10	<0.005	0.009	0.001	0.06	0.7	0.02	0.35	1.66	99.30
40211333		<1	10.4	1.05	46	1.6	0.02	<0.005	0.008	0.001	0.06	0.3	<0.01	0.20	0.82	99.57
40211334		<1	10.1	1.01	47	1.3	0.01	<0.005	0.006	<0.001	0.08	0.3	<0.01	0.19	0.48	98.77
40211335		<1	11.1	1.08	53	7.0	0.22	<0.005	0.011	0.002	0.24	0.9	0.03	0.41	1.60	100.31
40211336		<1	11.2	1.15	55	23.4	0.24	<0.005	0.013	0.005	0.39	1.1	0.05	0.56	1.82	99.67
40211337		1	18.7	1.96	100	6.7	0.12	<0.005	0.015	0.003	0.18	0.8	0.01	0.30	1.21	98.56
40211338		<1	8.8	0.84	46	1.3	0.14	<0.005	0.025	0.004	0.06	0.8	0.04	0.62	0.81	99.70
40211339		<1	9.7	0.88	43	1.4	0.25	<0.005	0.034	0.009	0.06	1.2	0.05	0.80	1.62	98.26
40211340		2	9.4	0.92	42	1.6	0.22	<0.005	0.033	0.009	0.07	1.3	0.05	0.77	1.42	101.54
40211341		1	24.7	2.53	128	1.9	0.02	<0.005	0.013	0.001	0.08	0.5	<0.01	0.19	1.25	101.06
40211342		1	13.3	1.29	137	1.2	0.02	<0.005	0.017	<0.001	0.08	0.6	<0.01	0.04	1.05	101.79
40211343		<1	15.6	1.44	76	1.5	0.18	<0.005	0.030	0.008	0.06	1.2	0.03	0.22	0.98	99.81
40211344		<1	10.2	1.03	54	2.3	0.12	<0.005	0.020	0.009	0.07	0.9	0.03	0.48	1.25	100.21
40211345		<1	14.6	1.44	73	0.5	0.02	<0.005	0.010	0.001	<0.05	0.4	<0.01	0.23	1.69	99.71
40211346		<1	14.8	1.38	78	4.5	0.04	<0.005	0.015	0.003	0.05	0.9	0.01	0.38	1.87	99.71
40211347		<1	18.8	1.87	97	0.8	0.03	<0.005	0.013	0.001	<0.05	0.6	<0.01	0.21	0.48	98.82
40211348		<1	18.9	1.87	99	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.5	<0.01	0.22	0.58	100.53
40211349		<1	19.4	2.02	96	1.0	0.16	<0.005	0.020	0.006	<0.05	1.2	0.03	0.30	0.67	100.12
40211350		<1	14.1	1.37	79	0.8	0.02	<0.005	0.014	<0.001	<0.05	0.5	<0.01	0.07	1.43	100.10
40211351		<1	19.1	1.88	99	0.4	0.10	<0.005	0.022	0.005	<0.05	1.3	0.03	0.20	0.40	98.94
40211352		<1	20.8	1.98	105	0.3	0.01	<0.005	0.014	0.001	0.05	0.5	0.01	0.05	0.11	99.67
40211352 CRD		<1	19.9	2.03	104	0.4	0.01	<0.005	0.014	0.001	<0.05	0.4	<0.01	0.06	0.15	99.09
40211353		<1	21.2	2.00	108	0.4	0.01	<0.005	0.011	<0.001	<0.05	0.6	0.01	0.07	0.29	99.33
40211354		<1	20.0	1.95	106	1.2	0.01	<0.005	0.013	<0.001	<0.05	0.6	0.01	0.12	0.59	100.00
40211355		<1	17.4	1.74	90	1.3	0.01	<0.005	0.010	<0.001	<0.05	0.5	<0.01	0.16	0.94	99.71
40211356		<1	19.1	1.76	99	0.8	0.01	<0.005	0.006	<0.001	0.05	0.3	<0.01	0.08	1.11	100.27
40211357		1	15.3	1.51	81	0.6	0.02	<0.005	0.009	0.001	0.10	0.4	<0.01	0.11	0.56	99.98
40211358		<1	15.9	1.60	82	0.5	0.01	<0.005	0.012	0.001	<0.05	0.6	<0.01	0.08	0.27	99.95
40211359		<1	21.6	2.09	111	0.7	0.01	<0.005	0.012	0.001	<0.05	0.6	<0.01	0.09	0.34	99.48
40211360		1	18.1	1.72	111	5.0	0.18	0.008	0.030	0.003	0.25	1.4	0.06	0.45	2.14	100.21
40211361		<1	22.8	2.13	116	0.5	0.01	<0.005	0.014	0.001	0.06	0.5	0.01	0.07	0.24	100.32
40211362		<1	21.8	2.16	112	0.3	0.01	<0.005	0.014	0.001	<0.05	0.6	<0.01	0.08	0.56	100.31
40211363		<1	21.1	2.03	111	0.3	0.01	<0.005	0.015	0.001	<0.05	0.5	<0.01	0.07	0.25	100.53
40211364		<1	21.0	1.98	110	0.3	0.01	<0.005	0.016	0.001	0.07	0.6	<0.01	0.05	0.14	100.40
40211365		1	20.7	2.10	106	0.4	0.01	<0.005	0.015	0.001	<0.05	0.7	<0.01	0.16	0.40	99.15
40211366		<1	19.9	2.04	109	0.9	0.01	<0.005	0.014	0.001	<0.05	0.6	<0.01	0.11	0.71	99.03
40211367		<1	21.4	1.96	112	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.5	0.01	0.05	-0.01	99.70
40211368		<1	19.9	1.80	99	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.6	<0.01	0.09	0.21	98.89
40211369		<1	19.7	1.86	104	0.3	0.01	<0.005	0.015	0.001	<0.05	0.5	<0.01	0.07	0.18	98.34



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Account: KAV

Project: EB80002678

CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
40211332		<0.5	<5	0.6	52	223	20	5	268	11	19	<10	94	0.003	0.006	0.008
40211332 CRD		<0.5	5	0.5	51	221	20	4	263	10	21	<10	94	0.003	0.005	0.009
40211333		<0.5	<5	<0.5	47	72	20	5	205	4	22	<10	73	0.001	<0.005	0.002
40211334		<0.5	<5	0.5	54	43	10	5	218	8	21	<10	77	<0.001	<0.005	0.002
40211335		<0.5	7	0.7	74	306	20	7	394	14	22	<10	87	0.004	0.006	0.014
40211336		<0.5	22	0.8	78	349	20	10	410	17	21	<10	95	0.004	0.006	0.014
40211337		<0.5	<5	0.8	66	195	20	6	270	13	20	<10	111	0.002	<0.005	0.007
40211338		<0.5	<5	0.6	76	898	20	5	790	11	12	<10	63	0.006	0.012	0.043
40211339		0.5	<5	1.0	103	1230	20	4	953	13	19	<10	69	0.008	0.012	0.054
40211340		<0.5	<5	0.9	103	1080	20	5	872	14	21	<10	70	0.007	0.009	0.045
40211341		<0.5	<5	0.5	41	108	30	5	70	8	36	<10	110	<0.001	<0.005	0.003
40211342		<0.5	<5	<0.5	3	22	20	4	12	27	5	<10	52	<0.001	<0.005	<0.001
40211343		<0.5	<5	0.9	96	1060	20	4	831	8	24	<10	91	0.007	0.018	0.032
40211344		<0.5	<5	0.9	87	979	30	5	933	8	12	<10	70	0.008	0.013	0.035
40211345		<0.5	<5	0.5	54	113	20	4	235	8	18	<10	82	<0.001	<0.005	0.003
40211346		<0.5	<5	0.6	62	386	20	4	470	7	18	<10	81	0.002	0.009	0.014
40211347		<0.5	<5	0.5	51	308	20	4	230	9	25	<10	98	0.005	<0.005	0.052
40211348		<0.5	<5	0.6	49	91	20	4	172	10	26	<10	93	<0.001	<0.005	0.002
40211349		<0.5	<5	<0.5	64	970	20	5	556	9	24	<10	88	0.008	0.012	0.054
40211350		<0.5	<5	0.6	52	98	10	4	296	9	14	<10	89	0.001	<0.005	0.006
40211351		<0.5	<5	0.8	57	1085	10	4	558	6	24	<10	89	0.010	0.016	0.061
40211352		<0.5	<5	0.6	52	105	10	5	181	9	26	<10	98	<0.001	0.005	0.003
40211352 CRD		<0.5	<5	0.5	52	104	10	5	182	7	26	<10	97	0.005	<0.005	0.003
40211353		<0.5	<5	0.5	49	105	10	4	170	7	26	<10	96	0.001	<0.005	0.003
40211354		<0.5	<5	0.6	49	99	20	4	175	8	25	<10	93	<0.001	<0.005	0.002
40211355		<0.5	<5	0.5	47	87	20	4	152	7	26	<10	91	<0.001	<0.005	0.002
40211356		<0.5	<5	0.7	38	54	10	4	88	8	31	<10	89	<0.001	<0.005	0.001
40211357		<0.5	<5	<0.5	47	117	10	<1	135	<2	27	<10	87	0.001	<0.005	0.007
40211358		<0.5	<5	<0.5	50	161	10	<1	194	<2	27	<10	93	0.001	0.005	0.006
40211359		<0.5	<5	<0.5	52	114	10	<1	181	<2	28	<10	94	<0.001	<0.005	0.004
40211360		<0.5	<5	<0.5	63	1110	40	1	692	<2	18	<10	107	0.022	0.044	0.199
40211361		<0.5	<5	0.8	54	123	10	<1	182	<2	28	<10	97	0.001	<0.005	0.003
40211362		<0.5	<5	<0.5	51	116	20	<1	176	<2	27	<10	92	<0.001	<0.005	0.002
40211363		<0.5	<5	0.6	54	114	10	<1	184	<2	28	<10	94	<0.001	<0.005	0.002
40211364		<0.5	<5	0.5	52	113	10	<1	181	<2	28	<10	95	0.001	<0.005	0.002
40211365		<0.5	<5	<0.5	50	114	20	<1	181	<2	27	<10	93	0.001	<0.005	0.003
40211366		<0.5	<5	<0.5	51	111	20	<1	181	<2	26	<10	94	0.001	<0.005	0.003
40211367		<0.5	<5	0.5	52	114	10	<1	187	<2	27	<10	94	0.001	<0.005	0.003
40211368		<0.5	<5	0.6	53	114	10	<1	189	<2	27	<10	93	0.001	<0.005	0.003
40211369		<0.5	<5	<0.5	51	109	10	<1	186	<2	26	<10	91	0.001	<0.005	0.004



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40211370		3.13			48.1	16.75	11.95	10.40	2.64	7.73	0.43	0.03	1.39	0.16	0.15	0.03
40211371		6.19			48.0	16.85	11.90	10.40	2.61	7.78	0.43	0.03	1.35	0.16	0.15	0.04
40211372		6.55			48.2	16.90	11.85	10.45	2.67	7.77	0.42	0.03	1.36	0.16	0.15	0.03
40211372 CRD		<0.02			47.8	16.70	11.85	10.25	2.59	7.81	0.42	0.03	1.30	0.16	0.15	0.03
40211373		6.37			48.2	16.75	12.25	10.35	2.61	7.72	0.40	0.03	1.33	0.16	0.15	0.03
40211374		6.39			48.8	17.20	11.90	10.65	2.67	8.06	0.39	0.03	1.28	0.16	0.14	0.03
40211375		6.44			47.7	16.90	11.50	10.35	2.59	7.86	0.39	0.03	1.28	0.15	0.13	0.03
40211376		6.15			48.5	17.05	11.80	10.60	2.61	8.03	0.39	0.03	1.27	0.16	0.14	0.03
40211377		6.58			48.2	17.00	11.70	10.55	2.66	7.88	0.41	0.03	1.29	0.16	0.14	0.03



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
40211370		0.02	0.01	0.02	140.0	24.9	170	1.45	3.67	2.02	1.29	17.6	4.11	<5	2.7	0.77
40211371		0.02	0.01	0.04	141.5	25.2	170	1.71	3.72	1.93	1.29	18.3	3.81	<5	2.8	0.76
40211372		0.02	<0.01	0.02	141.0	24.7	170	1.36	3.79	2.06	1.26	17.8	3.90	<5	2.9	0.78
40211372 CRD		0.02	0.01	0.02	143.0	24.7	170	1.38	3.76	2.00	1.26	18.0	3.94	<5	2.8	0.75
40211373		0.02	0.02	0.02	147.0	29.6	200	1.68	4.84	3.32	1.35	20.9	4.63	<5	85.7	1.07
40211374		0.02	0.01	0.02	137.5	23.6	190	1.08	3.42	2.03	1.35	18.1	3.76	<5	2.7	0.73
40211375		0.02	0.02	0.01	139.5	23.9	190	1.88	3.53	1.99	1.32	18.1	3.77	<5	2.6	0.71
40211376		0.02	0.04	0.02	138.0	22.0	190	1.53	3.35	1.83	1.10	16.6	3.35	<5	2.5	0.67
40211377		0.02	0.01	0.02	140.5	24.3	200	1.38	3.71	2.05	1.22	18.6	3.92	<5	2.8	0.77

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



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
		0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
40211370		11.2	0.27	7.4	14.8	3.35	11.5	3.56	1	253	0.4	0.65	1.24	0.30	0.31	230
40211371		11.2	0.29	7.4	15.1	3.45	11.7	3.54	1	265	0.4	0.60	1.24	0.32	0.28	230
40211372		11.1	0.29	7.6	14.8	3.25	11.1	3.42	1	257	0.4	0.63	1.18	0.32	0.30	231
40211372 CRD		11.3	0.29	7.3	15.2	3.31	11.2	3.48	1	256	0.4	0.62	1.28	0.31	0.30	226
40211373		13.7	0.70	8.5	17.4	3.88	12.2	4.01	1	271	0.5	0.77	3.82	0.54	3.03	236
40211374		10.7	0.26	7.0	14.4	3.18	9.6	3.22	1	256	0.4	0.63	1.08	0.31	0.28	222
40211375		10.9	0.25	7.1	14.8	3.14	11.3	3.64	1	267	0.4	0.58	1.17	0.29	0.29	225
40211376		10.1	0.26	6.5	13.3	2.90	10.2	3.06	1	247	0.4	0.58	1.03	0.26	0.25	211
40211377		10.9	0.28	7.3	14.1	3.30	10.4	3.32	1	263	0.4	0.62	1.18	0.32	0.28	227

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15112733

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40211370		<1	19.1	1.91	101	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.6	<0.01	0.07	0.21	99.99
40211371		<1	19.7	1.76	101	1.5	0.01	<0.005	0.015	0.001	<0.05	0.6	0.01	0.09	0.35	100.07
40211372		<1	19.5	1.83	103	0.4	0.01	<0.005	0.015	<0.001	<0.05	0.6	<0.01	0.06	0.08	100.09
40211372 CRD		<1	19.8	2.06	105	0.4	0.01	<0.005	0.015	0.001	<0.05	0.6	<0.01	0.06	0.12	99.23
40211373		<1	28.8	3.90	3730	0.6	0.01	<0.005	0.015	<0.001	0.05	0.6	<0.01	0.06	0.11	100.11
40211374		<1	19.2	1.80	93	0.6	0.01	<0.005	0.014	0.001	<0.05	0.6	<0.01	0.03	-0.08	101.25
40211375		<1	19.1	2.01	95	0.4	0.01	<0.005	0.013	<0.001	<0.05	0.5	<0.01	0.11	0.63	99.56
40211376		<1	17.8	1.70	89	0.9	0.01	<0.005	0.012	0.001	0.63	0.6	<0.01	0.07	0.28	100.91
40211377		<1	18.8	1.89	93	0.4	0.01	<0.005	0.015	0.001	<0.05	0.5	<0.01	0.04	-0.04	100.03



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40211370		<0.5	<5	<0.5	53	111	10	<1	188	<2	26	<10	91	0.001	<0.005	0.003
40211371		<0.5	<5	0.5	54	112	10	<1	197	<2	27	<10	94	0.001	<0.005	0.004
40211372		<0.5	<5	<0.5	54	110	10	<1	192	<2	26	<10	91	0.001	<0.005	0.003
40211372 CRD		<0.5	<5	<0.5	54	108	10	<1	191	<2	26	<10	91	0.001	<0.005	0.003
40211373		<0.5	<5	0.5	54	106	10	1	193	<2	26	<10	91	0.001	<0.005	0.003
40211374		<0.5	<5	0.6	54	105	10	<1	193	<2	25	<10	88	0.001	<0.005	0.003
40211375		<0.5	<5	<0.5	54	101	10	<1	188	<2	25	<10	87	0.001	<0.005	0.003
40211376		<0.5	<5	<0.5	53	97	10	<1	186	<2	25	<10	104	0.001	<0.005	0.003
40211377		<0.5	<5	<0.5	52	99	10	<1	181	<2	25	<10	86	0.001	<0.005	0.003



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
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CERTIFICATE OF ANALYSIS TB15112733

	CERTIFICATE COMMENTS												
	LABORATORY ADDRESSES												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-04</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>LOG-21d</td> <td>LOG-23</td> <td>PUL-32</td> <td>PUL-32d</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>SPL-21d</td> <td>WEI-21</td> </tr> </table>	BAG-04	CRU-31	CRU-QC	LOG-21	LOG-21d	LOG-23	PUL-32	PUL-32d	PUL-QC	SPL-21	SPL-21d	WEI-21
BAG-04	CRU-31	CRU-QC	LOG-21										
LOG-21d	LOG-23	PUL-32	PUL-32d										
PUL-QC	SPL-21	SPL-21d	WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08	TOT-ICP06			
C-IR07	ME-4ACD81	ME-ICP06	ME-MS42										
ME-MS81	OA-GRA05	PGM-ICP24	S-IR08										
TOT-ICP06													



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE TB15124037

Project: EB80000954
 P.O. No.: 3101202290

This report is for 61 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-AUG-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER
 STEVE HOVIS

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

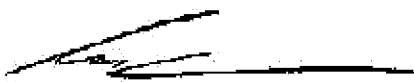
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

To: RIO TINTO EXPLORATION CANADA INC.
 ATTN: BRIAN GOLDNER
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Project: EB80000954

CERTIFICATE OF ANALYSIS TB15124037

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 Na2O %	ME-ICP06 MgO %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %
Sample Description	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40211234	1.13			44.3	17.50	11.35	9.84	2.06	10.80	0.28	0.02	1.00	0.13	0.11	0.03
40211235	10.45	71.3	89.7	61.6	16.85	7.76	0.51	1.88	2.66	3.30	0.03	0.74	0.04	0.11	0.01
40211236	11.23			66.0	16.15	7.33	0.37	2.31	2.42	2.92	0.02	0.74	0.03	0.12	0.01
40211237	11.14			65.8	14.50	6.74	1.05	2.32	2.18	2.53	0.03	0.67	0.03	0.11	0.01
40211238	11.02			67.5	14.35	6.50	0.60	2.49	2.18	2.48	0.02	0.66	0.03	0.10	0.01
40211239	11.33			67.0	15.30	6.91	0.38	2.16	2.26	2.62	0.02	0.71	0.03	0.10	0.01
40211240	0.16			45.1	18.65	12.25	9.40	2.10	7.66	1.07	0.35	1.31	0.15	0.15	0.05
40211241	11.04			68.8	13.95	6.19	0.78	2.84	1.89	2.21	0.03	0.63	0.03	0.09	0.01
40211242	9.56			68.0	14.75	6.69	0.62	2.60	2.09	2.47	0.03	0.68	0.03	0.10	0.01
40211243	9.97			65.2	15.60	7.01	0.71	1.84	2.36	3.34	0.03	0.72	0.03	0.10	0.01
40211244	3.16			51.7	14.50	14.05	5.44	2.57	3.59	2.02	0.01	2.84	0.15	0.30	0.05
40211245	4.11			50.7	12.40	17.30	7.27	3.12	3.75	1.33	<0.01	3.77	0.21	0.47	0.06
40211246	6.50			49.6	12.25	16.35	7.18	2.99	3.80	1.34	<0.01	3.63	0.20	0.42	0.06
40211247	6.17			47.7	13.55	16.15	6.98	3.02	4.86	1.20	0.01	3.07	0.18	0.33	0.07
40211248	6.34			46.7	14.50	17.15	7.18	3.08	5.12	1.08	0.01	3.32	0.17	0.26	0.07
40211249	2.97			46.9	14.10	17.20	7.14	3.04	4.93	1.15	0.01	3.13	0.18	0.31	0.07
40211250	2.98			48.0	14.10	16.80	7.09	3.13	4.94	1.13	0.01	3.16	0.18	0.33	0.07
40211251	6.57			47.8	13.75	17.25	7.32	3.11	4.81	1.22	0.01	3.19	0.18	0.34	0.07
40211252	6.14			48.2	13.20	16.75	7.18	3.14	4.40	1.24	0.01	3.37	0.19	0.38	0.06
40211253	6.18			48.3	13.50	16.20	7.21	3.16	4.31	1.21	0.01	3.22	0.18	0.35	0.07
40211253 CRD	<0.02			48.4	13.60	16.10	7.22	3.18	4.27	1.23	0.01	3.26	0.18	0.36	0.07
40211254	6.66			48.0	13.10	16.45	7.03	3.04	4.33	1.33	0.01	3.35	0.19	0.38	0.06
40211255	6.46			47.6	12.65	16.95	7.01	2.95	4.28	1.32	0.01	3.53	0.20	0.40	0.06
40211256	4.19			48.4	12.75	16.95	6.92	3.11	4.09	1.31	0.01	3.59	0.20	0.42	0.06
40211257	8.61			64.2	16.55	7.65	0.47	1.98	2.56	3.46	0.03	0.82	0.05	0.11	0.02
40211258	11.46			68.1	14.85	6.51	0.54	2.84	2.18	2.41	0.03	0.66	0.04	0.10	0.01
40211259	12.26			63.9	16.40	7.46	0.30	2.03	2.48	3.08	0.03	0.77	0.05	0.11	0.01
40211260	1.25			46.1	17.65	11.90	9.70	2.15	11.20	0.35	0.03	0.98	0.15	0.11	0.03
40211261	11.65			65.9	15.25	6.70	0.78	2.53	2.17	2.64	0.03	0.72	0.04	0.11	0.01
40211262	9.76			64.1	15.65	7.08	0.76	2.17	2.40	2.95	0.03	0.75	0.04	0.11	0.02
40211263	2.77			46.8	16.05	13.85	8.66	2.54	5.64	0.76	0.02	2.24	0.17	0.28	0.03
40211264	5.53			46.9	15.85	14.10	8.87	2.47	6.17	0.70	0.02	2.17	0.18	0.27	0.03
40211265	3.24			47.2	16.15	14.15	8.74	2.57	5.79	0.67	0.02	2.28	0.18	0.29	0.03
40211266	9.08			68.7	13.45	6.33	0.70	2.47	2.06	2.22	0.02	0.61	0.04	0.10	0.02
40211267	12.01			64.3	15.95	7.18	0.45	2.11	2.33	3.00	0.03	0.76	0.03	0.12	0.01
40211268	11.40			65.7	14.95	6.77	1.11	2.18	2.15	2.98	0.03	0.68	0.04	0.11	0.01
40211269	11.53			67.4	14.75	6.40	0.57	2.27	2.14	2.81	0.02	0.66	0.04	0.10	0.01
40211270	0.16			44.8	18.55	11.90	9.40	2.09	7.54	1.02	0.35	1.31	0.14	0.15	0.05
40211271	11.82			65.1	16.20	7.41	0.51	1.95	2.44	3.18	0.03	0.74	0.03	0.11	0.01
40211272	2.18			64.6	16.45	7.83	0.54	2.08	2.57	3.07	0.03	0.78	0.04	0.12	0.01



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Project: EB80000954

CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211234		0.01	0.02	0.05	119.5	23.6	180	1.73	2.81	1.67	1.09	16.9	3.27	<5	2.1	0.62
40211235		0.06	0.30	0.19	564	63.1	180	8.55	4.24	2.34	1.30	21.1	4.81	<5	4.4	0.84
40211236		0.05	0.12	<0.01	489	59.7	170	6.89	3.85	2.18	1.28	18.8	4.46	<5	4.7	0.79
40211237		0.05	0.30	0.03	472	62.9	180	5.76	4.01	2.29	1.26	18.3	4.67	<5	5.0	0.81
40211238		0.05	0.16	0.02	461	55.4	170	4.97	3.61	2.14	1.17	17.2	4.17	<5	4.8	0.73
40211239		0.05	0.07	0.20	447	60.2	180	5.74	3.90	2.09	1.22	19.2	4.69	<5	4.7	0.85
40211240		0.04	0.05	0.37	336	25.9	2460	2.51	3.50	1.94	1.36	19.4	3.70	<5	2.7	0.76
40211241		0.04	0.14	0.02	358	45.6	170	2.14	3.20	1.94	1.04	16.5	3.68	<5	4.9	0.73
40211242		0.05	0.09	0.02	403	46.5	190	3.22	3.42	1.95	0.99	17.3	3.68	<5	4.7	0.73
40211243		0.07	0.12	0.08	611	56.5	170	4.72	3.75	2.26	1.14	19.4	4.37	<5	4.6	0.81
40211244		0.06	0.09	0.05	596	70.6	70	5.57	6.58	3.24	2.64	24.4	7.87	<5	6.4	1.28
40211245		0.06	0.02	0.05	534	82.1	10	4.45	8.27	4.04	3.27	24.6	9.86	<5	7.8	1.57
40211246		0.06	0.04	0.05	516	78.2	20	4.83	7.54	3.73	3.16	24.0	9.17	<5	7.4	1.51
40211247		0.04	0.04	0.10	352	59.1	90	5.82	5.78	2.84	2.41	22.9	7.01	<5	5.6	1.15
40211248		0.03	0.04	0.02	292	48.3	70	5.67	4.89	2.63	2.27	22.0	5.97	<5	5.0	1.01
40211249		0.03	0.04	0.03	287	55.6	80	6.76	5.62	2.61	2.45	22.5	6.88	<5	5.3	1.11
40211250		0.03	0.03	0.03	343	61.5	90	7.44	6.09	3.18	2.61	25.1	7.26	<5	6.0	1.22
40211251		0.03	0.03	0.03	311	62.8	70	6.98	6.32	3.12	2.59	23.1	7.67	<5	6.0	1.24
40211252		0.03	0.02	0.02	311	67.0	40	6.99	6.71	3.43	2.86	23.8	8.58	<5	6.6	1.44
40211253		0.04	0.03	0.04	331	64.9	40	6.86	6.71	3.28	2.75	23.4	8.00	<5	6.4	1.35
40211253 CRD		0.04	0.03	0.04	318	63.6	40	6.66	6.53	3.19	2.69	23.0	8.07	<5	6.2	1.31
40211254		0.04	0.03	0.04	371	66.1	40	7.24	6.95	3.36	2.76	23.0	7.99	<5	6.5	1.35
40211255		0.05	0.02	0.04	464	69.4	40	7.12	7.02	3.67	2.89	23.7	8.55	<5	6.7	1.43
40211256		0.05	0.02	0.06	448	73.3	40	7.38	7.42	3.80	2.92	24.0	9.13	<5	6.9	1.51
40211257		0.08	0.03	0.02	713	66.8	190	6.60	4.17	2.17	1.36	20.3	4.70	<5	4.8	0.88
40211258		0.06	0.07	0.17	503	49.0	170	3.37	3.71	2.11	1.20	17.4	4.09	<5	4.7	0.77
40211259		0.06	0.06	0.07	536	61.6	180	7.16	3.96	2.21	1.27	19.9	4.45	<5	4.4	0.86
40211260		0.01	0.01	0.04	117.5	18.9	180	1.20	2.58	1.41	0.97	16.6	2.93	<5	2.0	0.54
40211261		0.06	0.17	0.01	506	60.8	180	6.56	3.67	2.05	1.19	17.7	4.04	<5	5.0	0.80
40211262		0.07	0.13	0.03	659	58.0	180	7.00	3.87	2.16	1.18	19.1	4.54	<5	4.7	0.81
40211263		0.04	0.20	0.13	311	48.6	160	4.47	6.07	3.60	1.93	21.8	6.42	<5	4.9	1.28
40211264		0.03	0.06	0.06	286	45.6	150	5.67	6.02	3.49	1.91	20.6	6.48	<5	4.4	1.25
40211265		0.03	0.05	0.21	284	49.1	160	5.16	6.66	3.71	1.99	22.2	6.34	<5	5.2	1.29
40211266		0.06	0.05	<0.01	501	50.6	160	4.50	3.17	1.89	1.03	15.3	3.83	<5	4.3	0.66
40211267		0.06	0.20	0.08	513	58.4	170	8.95	4.01	2.27	1.22	19.2	4.38	<5	4.7	0.84
40211268		0.05	0.44	0.21	485	52.6	160	7.50	3.92	2.27	1.17	17.8	4.21	<5	4.5	0.80
40211269		0.06	0.26	0.13	527	55.0	170	6.96	3.60	2.18	1.13	17.5	4.26	<5	4.8	0.80
40211270		0.04	0.03	0.38	354	28.6	2580	2.60	3.71	2.22	1.39	20.6	4.06	<5	2.9	0.81
40211271		0.06	0.26	0.22	527	70.7	170	9.40	4.11	2.34	1.36	20.7	4.62	<5	4.6	0.85
40211272		0.06	0.14	0.05	560	63.2	180	9.78	4.10	2.36	1.38	21.2	4.61	<5	4.6	0.85



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
40211234		10.8	0.23	6.1	12.9	2.98	6.8	3.26	1	253	0.4	0.47	1.61	0.23	0.24	130
40211235		32.7	0.36	10.2	29.4	7.54	151.0	6.13	2	83.7	0.7	0.75	8.06	0.38	4.85	142
40211236		30.3	0.33	10.0	27.8	7.14	127.5	5.66	2	93.4	0.6	0.67	7.68	0.35	3.19	120
40211237		31.8	0.34	9.5	28.3	7.38	114.0	5.57	2	101.5	0.6	0.69	7.65	0.33	3.16	114
40211238		27.6	0.32	8.9	25.5	6.50	103.5	5.00	1	102.5	0.6	0.67	7.32	0.29	3.09	107
40211239		30.8	0.33	9.8	28.5	7.21	122.5	5.52	2	82.2	0.6	0.70	7.84	0.31	4.58	124
40211240		12.3	0.28	7.3	14.8	3.34	34.3	3.43	2	403	0.5	0.63	1.28	0.28	0.32	175
40211241		22.3	0.31	8.8	21.6	5.39	88.9	4.38	1	70.9	0.6	0.60	7.24	0.30	2.90	102
40211242		23.8	0.34	9.1	22.5	5.61	102.0	4.64	1	97.9	0.6	0.61	7.50	0.33	2.98	107
40211243		29.0	0.37	9.6	26.9	6.79	130.0	5.36	2	103.0	0.6	0.68	7.85	0.36	4.37	128
40211244		33.3	0.42	22.3	38.7	8.84	87.7	8.78	2	450	1.4	1.28	5.13	0.50	1.81	368
40211245		37.5	0.53	28.9	46.5	10.60	48.9	10.95	2	491	1.7	1.54	4.75	0.58	1.37	386
40211246		35.8	0.47	26.5	44.3	9.97	49.1	9.92	2	509	1.7	1.44	4.45	0.56	1.31	412
40211247		26.9	0.37	20.3	33.7	7.62	44.8	7.74	2	552	1.3	1.10	3.52	0.42	1.00	420
40211248		22.2	0.29	17.5	28.1	6.23	38.7	6.41	2	569	1.1	0.95	2.74	0.37	0.80	543
40211249		25.8	0.36	19.9	31.3	7.11	43.0	7.36	2	562	1.2	1.05	3.17	0.40	0.98	462
40211250		28.0	0.39	21.8	35.3	7.92	46.5	8.06	2	618	1.3	1.18	3.49	0.44	1.08	503
40211251		28.9	0.42	22.5	36.1	8.12	44.6	8.24	2	558	1.4	1.16	3.70	0.44	1.10	425
40211252		31.2	0.45	24.3	38.6	8.65	46.0	8.97	2	544	1.5	1.30	3.97	0.48	1.13	410
40211253		29.7	0.45	23.5	36.7	8.48	45.9	8.41	2	556	1.5	1.34	3.84	0.50	1.15	395
40211253 CRD		28.8	0.42	23.0	36.5	8.21	44.6	8.54	2	547	1.5	1.21	3.66	0.49	1.28	381
40211254		30.2	0.48	23.9	37.8	8.59	49.8	8.74	2	524	1.5	1.24	3.80	0.48	1.21	396
40211255		32.1	0.45	25.4	40.1	9.04	52.9	9.16	2	498	1.6	1.37	4.23	0.52	1.29	426
40211256		33.3	0.46	26.1	41.0	9.35	53.4	9.67	2	481	1.6	1.43	4.36	0.55	1.36	425
40211257		34.7	0.40	10.9	31.2	7.97	137.0	5.98	2	147.5	0.7	0.73	8.38	0.36	3.75	134
40211258		25.0	0.32	8.8	22.9	5.82	92.1	4.87	1	112.5	0.6	0.63	7.54	0.31	4.93	117
40211259		31.6	0.37	13.6	29.0	7.52	142.0	5.79	2	98.4	0.7	0.72	8.32	0.37	4.01	131
40211260		8.3	0.21	5.5	10.4	2.40	8.8	2.43	1	276	0.3	0.45	0.85	0.21	0.18	132
40211261		31.5	0.33	10.1	27.6	7.05	114.0	5.16	2	104.5	0.7	0.66	7.71	0.34	3.29	112
40211262		29.2	0.34	10.1	26.9	6.84	126.5	5.31	2	135.0	0.7	0.66	8.04	0.36	3.46	123
40211263		23.1	0.50	13.7	26.7	6.18	26.2	6.56	2	259	0.8	1.13	2.45	0.49	0.66	237
40211264		20.8	0.48	13.2	25.6	6.23	27.5	6.17	2	250	0.8	1.03	2.01	0.49	0.50	234
40211265		22.7	0.54	14.1	27.5	6.43	23.8	6.80	2	249	0.8	1.11	2.19	0.50	0.52	248
40211266		24.4	0.33	8.5	22.7	6.12	93.6	4.47	1	147.5	0.6	0.56	7.14	0.29	2.75	95
40211267		28.7	0.37	10.5	27.3	7.25	139.5	5.30	2	93.0	0.7	0.66	8.06	0.36	4.03	127
40211268		26.1	0.37	9.4	24.1	6.40	131.5	4.76	2	97.0	0.7	0.65	8.05	0.34	4.54	123
40211269		26.8	0.33	9.2	25.1	6.72	129.0	4.95	2	114.5	0.6	0.64	7.91	0.32	4.36	119
40211270		13.1	0.29	8.1	16.2	3.74	36.2	3.96	2	423	0.5	0.70	1.42	0.33	0.34	187
40211271		37.4	0.40	10.3	31.7	8.50	149.0	5.92	2	90.8	0.7	0.73	8.45	0.36	4.45	139
40211272		31.8	0.36	10.8	29.0	7.88	144.0	5.82	2	121.0	0.8	0.69	8.29	0.36	3.60	136

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40211234	1	<1	15.2	1.53	84	0.5	0.01	<0.005	0.016	0.001	<0.05	0.4	<0.01	0.05	1.95	99.38
40211235	1	1	21.5	2.52	154	10.9	0.24	0.042	0.040	0.001	1.05	0.9	0.03	0.21	3.92	99.47
40211236	1	1	19.5	2.22	163	5.8	0.14	0.013	0.020	<0.001	0.38	0.6	0.01	0.08	3.20	101.67
40211237	1	1	20.2	2.36	185	5.8	0.16	0.016	0.035	<0.001	0.29	0.6	<0.01	0.11	3.36	99.38
40211238	1	1	18.5	1.97	176	5.3	0.12	0.014	0.027	<0.001	0.24	0.5	0.01	0.08	2.85	99.82
40211239	1	1	20.5	2.39	172	10.9	0.19	0.038	0.033	0.001	0.66	0.9	0.03	0.23	3.01	100.56
40211240	<1	1	18.1	1.89	96	5.3	0.14	0.011	0.028	0.003	0.35	1.5	0.04	0.45	2.06	100.34
40211241	1	1	17.7	2.16	175	4.4	0.07	0.022	0.020	<0.001	0.31	0.4	<0.01	0.08	2.64	100.13
40211242	1	1	17.2	2.16	166	4.0	0.05	0.010	0.021	<0.001	0.33	0.5	<0.01	0.10	2.85	100.97
40211243	1	1	19.7	2.46	162	9.3	0.07	0.015	0.036	0.001	0.37	0.8	0.03	0.13	3.19	100.21
40211244	1	1	31.7	3.18	240	3.0	0.05	0.024	0.033	<0.001	0.28	1.1	<0.01	0.33	1.83	99.11
40211245	1	1	38.9	3.62	291	2.6	0.06	0.035	0.023	<0.001	0.22	1.2	<0.01	0.22	0.86	101.30
40211246	1	1	36.7	3.46	269	1.8	0.05	0.027	0.018	0.001	0.15	1.3	<0.01	0.21	1.09	98.97
40211247	1	1	28.4	2.69	211	1.4	0.04	0.014	0.024	0.001	0.17	1.1	<0.01	0.37	1.09	98.25
40211248	<1	1	23.7	2.23	176	1.0	0.03	0.008	0.023	<0.001	0.08	0.7	<0.01	0.46	0.74	99.41
40211249	1	1	27.0	2.54	199	1.4	0.04	0.007	0.024	0.001	0.07	1.1	<0.01	0.47	0.72	98.91
40211250	1	1	30.0	2.85	225	1.6	0.04	0.006	0.024	<0.001	0.09	0.9	<0.01	0.46	0.75	99.72
40211251	1	1	30.7	2.73	223	1.7	0.04	<0.005	0.023	<0.001	0.09	1.0	<0.01	0.35	0.69	99.77
40211252	1	1	32.9	3.06	245	1.8	0.04	0.008	0.026	0.001	0.10	1.1	<0.01	0.35	0.58	98.73
40211253	1	1	32.6	3.01	237	1.9	0.04	0.008	0.024	0.001	0.07	1.1	<0.01	0.39	0.77	98.53
40211253 CRD	1	1	31.3	2.89	231	1.6	0.04	0.007	0.025	0.001	0.07	1.0	<0.01	0.40	0.81	98.73
40211254	1	1	32.8	3.02	245	1.9	0.05	0.010	0.022	0.001	0.08	1.1	<0.01	0.38	0.91	98.22
40211255	1	1	34.6	3.34	255	1.7	0.05	0.012	0.021	0.001	0.11	1.2	0.01	0.36	0.99	98.00
40211256	1	1	35.6	3.29	263	2.0	0.05	0.020	0.025	0.001	0.12	1.2	<0.01	0.42	0.61	98.47
40211257	1	1	20.8	2.44	165	5.6	0.08	0.030	0.038	<0.001	0.27	0.8	0.01	0.19	2.98	100.96
40211258	2	2	18.9	2.18	174	8.8	0.10	0.012	0.025	0.002	0.36	0.6	0.02	0.19	2.47	100.80
40211259	2	2	20.5	2.53	152	5.7	0.15	0.027	0.037	0.001	0.21	0.5	0.02	0.25	3.12	99.80
40211260	<1	1	13.7	1.27	81	0.4	0.01	<0.005	0.016	0.001	<0.05	0.4	0.01	0.03	0.65	101.01
40211261	1	1	19.1	2.11	173	4.3	0.17	0.017	0.034	<0.001	0.25	0.8	0.02	0.12	3.08	100.02
40211262	2	2	20.0	2.41	166	5.5	0.16	0.033	0.047	<0.001	0.55	0.5	0.02	0.18	3.37	99.50
40211263	1	1	31.3	3.27	185	3.4	0.05	0.021	0.067	0.001	0.31	1.0	<0.01	0.76	2.47	99.55
40211264	1	1	29.9	3.05	183	0.9	0.02	0.014	0.035	0.002	0.15	1.0	0.02	0.86	1.76	99.52
40211265	1	1	31.8	3.26	198	2.2	0.03	0.014	0.040	0.002	0.16	1.2	0.01	1.34	2.23	100.33
40211266	1	1	16.3	1.88	164	0.2	<0.01	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.15	2.51	99.29
40211267	2	2	20.2	2.35	181	0.2	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.11	3.50	99.83
40211268	1	2	19.5	2.47	174	11.6	0.22	0.026	0.039	0.002	0.91	1.2	0.03	0.22	3.51	100.27
40211269	2	2	18.5	2.16	183	10.4	0.20	0.023	0.032	0.002	1.33	0.9	0.03	0.24	3.02	100.25
40211270	<1	1	19.1	1.99	115	4.5	0.16	0.013	0.037	0.004	0.30	1.4	0.06	0.48	2.01	99.35
40211271	2	2	21.3	2.53	177	10.1	0.24	0.021	0.039	0.002	1.13	0.8	0.04	0.25	3.60	101.37
40211272	3	3	20.7	2.35	167	6.1	0.20	0.016	0.038	<0.001	0.61	0.8	0.01	0.19	3.38	101.56



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001
40211234		<0.5	<5	<0.5	62	103	10	<1	398	4	15	<10	83	0.002	0.005	0.005
40211235		<0.5	12	<0.5	23	71	60	5	81	17	22	<10	152	0.002	<0.005	<0.001
40211236		<0.5	5	<0.5	21	20	60	<1	69	8	19	<10	75	0.001	<0.005	<0.001
40211237		<0.5	<5	<0.5	19	44	60	<1	61	9	17	<10	71	0.003	<0.005	<0.001
40211238		<0.5	<5	<0.5	18	26	50	<1	60	8	17	<10	79	0.001	<0.005	<0.001
40211239		<0.5	11	<0.5	18	56	70	6	66	20	17	<10	127	0.002	<0.005	0.001
40211240		0.5	7	0.5	65	1155	40	3	731	8	18	<10	111	0.021	0.052	0.218
40211241		<0.5	5	<0.5	17	20	60	<1	56	14	16	<10	86	<0.001	<0.005	<0.001
40211242		<0.5	<5	<0.5	19	23	70	<1	64	6	17	<10	66	<0.001	<0.005	<0.001
40211243		<0.5	10	<0.5	20	62	90	4	74	9	20	<10	81	0.001	<0.005	0.001
40211244		<0.5	6	<0.5	44	228	40	1	77	8	25	<10	147	0.003	<0.005	0.008
40211245		<0.5	6	<0.5	43	294	20	2	38	9	27	<10	162	0.004	<0.005	0.010
40211246		<0.5	7	<0.5	45	272	20	2	52	9	27	<10	158	0.004	<0.005	0.009
40211247		<0.5	<5	0.5	56	220	20	1	137	7	23	<10	149	0.003	<0.005	0.011
40211248		<0.5	<5	<0.5	62	181	10	<1	126	7	21	<10	135	0.002	<0.005	0.006
40211249		<0.5	<5	<0.5	59	206	20	<1	129	5	21	<10	141	0.003	<0.005	0.009
40211250		<0.5	<5	<0.5	59	211	10	1	131	6	21	<10	145	0.002	<0.005	0.008
40211251		<0.5	<5	<0.5	56	237	20	1	119	8	23	<10	149	0.003	<0.005	0.009
40211252		<0.5	<5	<0.5	51	255	10	1	97	5	23	<10	147	0.003	<0.005	0.009
40211253		<0.5	5	<0.5	50	245	10	<1	95	7	23	<10	142	0.003	<0.005	0.009
40211253 CRD		<0.5	<5	<0.5	53	249	20	<1	96	8	24	<10	145	0.003	<0.005	0.009
40211254		<0.5	<5	<0.5	51	265	20	1	94	9	25	<10	156	0.003	<0.005	0.009
40211255		<0.5	<5	<0.5	51	282	20	1	84	9	26	<10	167	0.003	<0.005	0.009
40211256		<0.5	5	<0.5	49	285	20	1	71	9	26	<10	175	0.004	<0.005	0.010
40211257		<0.5	9	<0.5	21	42	100	1	73	12	19	<10	128	0.001	<0.005	<0.001
40211258		<0.5	8	<0.5	18	63	60	7	60	11	16	<10	69	0.001	<0.005	<0.001
40211259		<0.5	5	<0.5	22	49	70	2	73	14	19	<10	120	0.002	<0.005	<0.001
40211260		<0.5	<5	<0.5	65	123	10	<1	377	3	10	<10	90	0.001	0.005	0.006
40211261		<0.5	9	<0.5	18	29	50	<1	63	6	17	<10	100	0.002	<0.005	<0.001
40211262		<0.5	6	<0.5	20	32	70	<1	66	8	18	<10	126	0.001	<0.005	<0.001
40211263		<0.5	<5	<0.5	48	222	30	1	133	2	25	<10	154	0.002	0.009	0.009
40211264		<0.5	5	<0.5	48	226	20	<1	142	2	24	<10	122	0.003	0.009	0.009
40211265		<0.5	<5	<0.5	48	234	20	<1	141	2	28	<10	126	0.003	0.009	0.009
40211266		<0.5	9	<0.5	15	24	70	<1	56	8	15	<10	61	<0.001	<0.005	<0.001
40211267		<0.5	8	<0.5	20	52	60	3	73	17	19	<10	129	0.001	<0.005	<0.001
40211268		<0.5	12	<0.5	19	82	50	6	70	31	19	<10	155	0.002	<0.005	<0.001
40211269		<0.5	12	<0.5	19	67	60	5	64	15	18	<10	98	0.001	<0.005	<0.001
40211270		<0.5	7	<0.5	65	1145	40	2	712	7	14	<10	109	0.022	0.043	0.200
40211271		<0.5	11	<0.5	20	77	60	4	75	16	19	<10	130	0.002	<0.005	0.001
40211272		<0.5	9	<0.5	19	39	60	1	71	12	18	<10	115	0.001	<0.005	<0.001



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
40211273		1.30			47.6	12.25	18.15	6.83	2.06	4.37	1.99	<0.01	3.48	0.22	0.40	0.05
40211273 CRD		<0.02			48.3	12.40	18.30	6.91	2.09	4.41	1.94	<0.01	3.51	0.22	0.40	0.05
40211274		8.52			65.3	15.25	7.17	1.35	2.17	2.28	2.82	0.03	0.72	0.04	0.12	0.01
40211275		11.96			64.4	16.15	7.60	0.59	1.90	2.48	3.15	0.03	0.72	0.04	0.11	0.01
40211276		11.28			64.5	16.05	7.47	0.49	1.97	2.41	2.99	0.03	0.73	0.04	0.12	0.01
40211277		11.53			67.1	14.35	6.61	0.78	2.33	2.08	2.76	0.02	0.63	0.04	0.10	0.01
40211278		11.50			63.4	16.50	7.36	0.46	1.91	2.41	3.20	0.03	0.76	0.04	0.11	0.01
40211279		5.06			67.1	15.65	7.10	0.49	2.21	2.29	2.94	0.02	0.71	0.04	0.11	0.01
40211280		5.56			65.6	15.65	7.13	0.48	2.17	2.28	2.96	0.02	0.72	0.04	0.11	0.01
40211281		11.48	73.5	94.2	68.8	15.15	6.48	0.58	2.46	2.15	2.87	0.02	0.69	0.04	0.11	0.01
40211282		11.37			69.1	14.30	6.32	0.58	2.53	2.01	2.49	0.02	0.64	0.04	0.11	0.01
40211283		11.54			65.3	15.65	6.93	0.51	2.08	2.30	2.98	0.03	0.70	0.04	0.11	0.01
40211284		10.93			68.9	14.40	6.66	0.59	2.45	2.08	2.57	0.02	0.64	0.03	0.10	0.01
40211285		11.51			64.4	16.65	7.48	0.53	1.91	2.47	3.01	0.02	0.76	0.03	0.11	0.01
40211286		11.51			68.8	15.00	6.65	0.63	2.37	2.22	2.79	0.02	0.67	0.03	0.11	0.02
40211287		11.19			67.4	15.45	7.12	0.57	2.26	2.38	2.84	0.02	0.69	0.04	0.11	0.02
40211288		11.32			68.5	14.60	6.81	0.69	2.39	2.23	2.53	0.03	0.67	0.03	0.11	0.02
40211289		10.52			64.4	15.75	7.75	0.61	1.66	2.46	3.47	0.05	0.70	0.03	0.11	0.02
40211290		1.53			46.3	18.25	10.65	9.77	2.19	9.65	0.32	0.03	0.99	0.13	0.11	0.03
40211291		11.12			69.7	13.00	5.65	0.66	2.44	1.84	2.59	0.02	0.56	0.04	0.10	0.03
40211292		11.10			68.1	13.55	6.06	0.57	1.92	2.11	3.20	0.02	0.58	0.04	0.10	0.02

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211273		0.10	0.03	0.17	855	68.2	10	1.54	7.15	3.77	3.27	23.4	8.74	<5	6.6	1.43
40211273 CRD		0.10	0.03	0.18	841	69.1	10	1.61	7.38	3.70	3.32	23.5	8.73	<5	6.6	1.40
40211274		0.06	0.24	0.10	484	58.2	170	7.77	3.98	2.36	1.26	19.3	4.59	<5	4.6	0.83
40211275		0.06	0.49	0.41	537	66.7	170	9.17	4.20	2.35	1.35	21.2	4.67	<5	4.2	0.92
40211276		0.06	0.31	0.27	510	59.3	170	9.15	4.14	2.37	1.31	20.7	4.72	<5	4.5	0.84
40211277		0.05	0.17	0.25	481	51.2	150	6.32	3.40	2.13	1.17	17.9	3.85	<5	4.4	0.73
40211278		0.06	0.08	0.12	522	60.6	170	8.04	4.13	2.52	1.29	21.8	4.68	<5	4.3	0.85
40211279		0.06	0.05	0.06	511	56.4	160	6.15	3.96	2.33	1.18	19.7	4.23	<5	4.6	0.76
40211280		0.06	0.06	0.06	510	57.7	170	6.35	3.87	2.11	1.22	19.9	4.28	<5	4.4	0.81
40211281		0.06	0.03	0.06	496	59.7	170	5.31	3.63	2.29	1.24	19.1	4.17	<5	4.7	0.76
40211282		0.05	0.03	0.03	483	55.5	170	3.98	3.43	2.00	1.05	17.6	3.85	<5	4.7	0.76
40211283		0.06	0.07	0.20	524	58.6	170	5.14	4.03	2.37	1.19	20.7	4.37	<5	4.6	0.82
40211284		0.06	0.02	0.25	497	55.4	160	3.26	3.53	2.04	1.18	18.1	3.89	<5	4.4	0.71
40211285		0.06	0.06	0.30	524	62.8	180	4.69	4.23	2.46	1.31	22.4	4.71	<5	4.4	0.92
40211286		0.06	0.04	0.03	557	55.4	170	3.23	3.70	2.11	1.22	19.3	4.08	<5	4.8	0.79
40211287		0.06	0.03	0.25	547	57.2	170	4.48	4.05	2.39	1.31	21.0	4.49	<5	4.3	0.84
40211288		0.06	0.01	0.09	581	55.6	180	2.95	3.74	2.14	1.23	19.4	4.33	<5	5.2	0.73
40211289		0.08	0.05	0.70	695	58.9	350	4.54	4.20	2.22	1.31	21.1	4.45	<5	5.9	0.86
40211290		0.01	0.02	0.04	116.5	18.5	200	1.43	2.59	1.51	1.07	18.6	2.68	<5	1.9	0.56
40211291		0.10	0.01	0.03	860	46.9	160	2.50	3.11	1.84	1.08	15.5	3.37	<5	5.3	0.64
40211292		0.10	0.04	0.20	919	51.4	150	3.80	3.41	2.04	1.05	17.2	3.68	<5	4.2	0.68



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40211273		30.4	0.44	25.1	38.7	9.15	69.3	8.95	5	414	1.6	1.31	4.09	0.51	1.26	438
40211273 CRD		31.2	0.45	25.4	39.2	9.22	67.6	8.86	5	421	1.7	1.38	4.26	0.51	1.21	443
40211274		28.5	0.36	10.0	26.8	7.20	126.5	5.65	2	106.5	0.7	0.74	7.84	0.36	3.22	121
40211275		33.3	0.38	10.2	29.9	7.97	148.0	5.67	2	95.8	0.7	0.76	8.25	0.39	6.15	149
40211276		29.1	0.39	10.1	27.6	7.24	141.5	5.52	2	97.3	0.7	0.75	8.31	0.37	4.60	137
40211277		25.1	0.33	9.0	23.7	6.34	118.5	4.50	2	107.0	0.6	0.65	7.46	0.31	3.30	113
40211278		30.4	0.35	10.8	28.2	7.65	153.0	5.47	2	96.1	0.7	0.76	9.17	0.36	3.99	142
40211279		27.7	0.39	10.0	25.3	6.85	136.0	5.09	2	108.0	0.7	0.66	8.59	0.35	3.63	125
40211280		28.8	0.35	10.1	25.8	7.01	139.0	5.26	2	106.5	0.7	0.66	8.47	0.33	3.60	130
40211281		29.3	0.34	9.9	26.8	7.26	130.0	5.38	2	115.5	0.7	0.68	9.12	0.32	3.47	117
40211282		27.2	0.34	9.1	24.6	6.73	109.5	4.73	2	120.0	0.6	0.63	7.79	0.32	3.09	109
40211283		28.8	0.38	9.9	27.2	7.15	135.5	5.17	2	106.0	0.7	0.69	8.40	0.36	4.67	139
40211284		27.9	0.34	9.1	24.7	6.78	109.5	4.93	2	124.0	0.6	0.58	7.94	0.30	3.30	112
40211285		31.0	0.37	10.7	29.9	7.84	139.0	5.52	2	100.5	0.7	0.72	8.81	0.39	5.20	152
40211286		27.3	0.34	9.8	25.5	6.75	116.0	5.14	2	133.0	0.6	0.65	8.16	0.35	3.60	121
40211287		27.5	0.39	10.2	26.7	7.07	116.0	5.27	1	142.0	0.7	0.69	8.53	0.32	4.61	136
40211288		26.1	0.37	9.7	25.7	6.80	97.9	4.94	1	172.0	0.7	0.64	8.09	0.34	3.74	123
40211289		27.6	0.39	10.1	26.9	7.23	133.0	5.17	2	174.5	0.7	0.71	8.26	0.36	5.78	149
40211290		8.5	0.21	5.6	10.6	2.46	8.5	2.54	1	287	0.4	0.46	0.87	0.21	0.23	136
40211291		22.3	0.31	8.1	21.0	5.60	89.7	4.00	1	268	0.6	0.54	7.13	0.27	2.93	93
40211292		25.3	0.35	8.4	22.6	6.12	117.5	4.29	1	206	0.6	0.58	7.40	0.31	4.13	114



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15124037

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40211273		2	34.0	3.00	254	9.2	0.10	0.015	0.074	0.001	0.76	1.2	0.02	0.22	2.46	99.96
40211273 CRD		1	34.3	3.06	255	8.1	0.11	0.021	0.077	0.001	0.75	1.2	0.01	0.22	2.40	101.03
40211274		2	19.7	2.33	180	6.7	0.18	0.023	0.041	<0.001	0.44	0.8	0.02	0.18	3.48	100.80
40211275		2	21.7	2.65	163	16.0	0.28	0.040	0.041	0.002	0.94	1.4	0.06	0.27	3.89	101.13
40211276		2	21.0	2.52	175	10.9	0.23	0.028	0.034	0.001	0.76	1.0	0.05	0.25	3.66	100.53
40211277		2	18.0	2.10	171	7.1	0.18	0.024	0.035	0.001	0.44	0.8	0.03	0.22	2.93	99.79
40211278		2	20.9	2.51	162	6.2	0.25	0.020	0.042	0.001	0.31	0.9	0.03	0.30	3.26	99.51
40211279		2	19.5	2.25	176	6.3	0.23	0.023	0.041	0.001	0.28	0.6	0.02	0.25	2.91	101.64
40211280		1	19.7	2.27	172	6.8	0.25	0.015	0.044	0.001	0.33	0.5	0.02	0.26	2.85	100.08
40211281		1	19.1	2.17	182	5.7	0.24	0.015	0.029	0.001	0.23	0.7	0.03	0.24	2.51	101.93
40211282		1	18.1	2.11	189	4.8	0.12	0.013	0.031	0.001	0.27	0.5	0.02	0.19	2.36	100.56
40211283		2	20.9	2.35	182	9.5	0.19	0.026	0.035	0.002	0.30	0.8	0.04	0.33	2.93	99.63
40211284		1	18.2	2.01	176	5.8	0.10	0.030	0.031	<0.001	0.50	0.7	0.02	0.42	2.53	101.04
40211285		2	22.5	2.57	169	11.2	0.20	0.045	0.040	0.002	0.47	1.0	0.04	0.39	3.30	100.74
40211286		2	19.5	2.19	186	5.8	0.09	0.029	0.032	0.001	0.20	0.6	0.02	0.21	2.53	101.90
40211287		2	21.2	2.50	166	7.9	0.12	0.051	0.035	0.001	0.55	0.9	0.03	0.31	2.88	101.84
40211288		2	19.6	2.23	207	4.6	0.08	0.037	0.029	0.001	0.36	0.7	0.02	0.19	2.57	101.24
40211289		1	21.4	2.36	245	11.0	0.12	0.070	0.045	0.003	0.57	1.0	0.06	0.37	3.42	100.51
40211290		1	13.6	1.39	78	0.2	0.01	<0.005	0.015	0.001	<0.05	0.2	0.01	0.03	1.02	99.45
40211291		1	16.5	1.89	211	2.2	0.03	0.027	0.030	<0.001	0.12	0.6	0.01	0.10	2.21	98.94
40211292		2	17.8	1.99	171	5.5	0.05	0.041	0.026	0.001	0.48	0.8	0.03	0.31	2.63	99.00



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 North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
		0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.001	0.005	0.001
40211273		<0.5	12	<0.5	47	256	40	<1	62	22	25	<10	193	<0.001	<0.005	0.008
40211273 CRD		<0.5	12	<0.5	49	260	40	1	61	19	25	<10	196	0.001	<0.005	0.008
40211274		<0.5	6	<0.5	19	42	60	1	66	20	18	<10	161	0.002	<0.005	<0.001
40211275		<0.5	19	0.6	20	120	60	11	74	27	19	<10	179	0.003	<0.005	0.001
40211276		<0.5	14	<0.5	21	89	60	5	73	20	19	<10	127	0.002	<0.005	0.001
40211277		<0.5	8	<0.5	17	50	50	2	56	13	16	<10	108	0.001	<0.005	<0.001
40211278		<0.5	6	<0.5	21	51	70	2	72	10	19	<10	114	0.001	<0.005	<0.001
40211279		<0.5	6	<0.5	18	52	60	2	65	14	18	<10	123	0.001	<0.005	<0.001
40211280		<0.5	9	<0.5	20	47	60	2	65	13	18	<10	108	0.001	<0.005	<0.001
40211281		<0.5	6	<0.5	18	39	60	<1	58	11	16	<10	85	0.001	<0.005	<0.001
40211282		<0.5	7	<0.5	17	34	50	2	56	9	16	<10	94	<0.001	<0.005	<0.001
40211283		<0.5	11	<0.5	20	75	60	5	69	13	19	<10	111	0.001	<0.005	0.002
40211284		<0.5	6	<0.5	18	41	70	2	58	12	16	<10	87	0.002	0.005	0.004
40211285		<0.5	12	<0.5	20	93	100	7	78	17	20	<10	131	0.001	<0.005	0.002
40211286		<0.5	<5	<0.5	16	43	80	2	59	13	17	<10	92	<0.001	<0.005	0.001
40211287		<0.5	7	<0.5	18	71	90	4	67	21	18	<10	107	<0.001	<0.005	0.002
40211288		<0.5	<5	<0.5	18	39	80	2	61	16	17	<10	78	<0.001	<0.005	0.001
40211289		<0.5	14	<0.5	22	96	90	9	75	17	19	<10	140	<0.001	<0.005	0.002
40211290		<0.5	<5	<0.5	56	106	10	<1	321	<2	14	<10	78	0.001	<0.005	0.006
40211291		<0.5	<5	<0.5	15	25	60	1	48	12	14	<10	75	<0.001	<0.005	0.001
40211292		<0.5	<5	<0.5	16	50	70	4	57	14	15	<10	87	<0.001	<0.005	0.001



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS TB15124037

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.			
	BAG-04	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-32	PUL-32d
	PUL-QC	SPL-21	SPL-21d	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08
	TOT-ICP06			



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 North Vancouver BC V7H 0A7
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CERTIFICATE TB15132485

Project: EB80002681
 P.O. No.: 3101202290
 This report is for 59 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 31-AUG-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

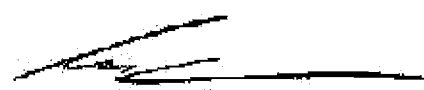
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES
ME-ICP81	ICP Fusion - Ore Grade	ICP-AES

To: **RIO TINTO EXPLORATION CANADA INC.**
ATTN: BRIAN GOLDNER
354-200 GRANVILLE STREET
VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132485

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Pass2mm %	Pass75um %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
40097082		1.48	76.2	85.1	0.05	8.75	1.2	130	0.48	0.01	7.23	0.08	17.55	53.9	167	0.89
40210982		11.97			0.04	8.85	11.2	720	1.60	0.07	0.46	0.08	63.8	21.4	160	4.46
40210983		1.04			0.04	8.20	11.4	640	1.44	0.11	0.37	0.08	56.5	20.3	156	3.74
40210984		11.62			0.09	8.62	11.9	710	1.64	0.17	0.32	0.24	51.2	22.7	155	4.54
40210985		10.78			0.07	7.90	12.2	560	1.31	0.15	0.27	<0.02	56.1	19.6	142	3.40
40210986		10.47			0.08	8.50	15.6	590	1.52	0.22	0.25	0.12	61.7	21.0	149	4.52
40210987		11.51			0.13	8.64	17.9	600	1.78	0.28	0.26	0.65	69.0	23.6	154	5.49
40210988		11.05			0.05	8.30	12.7	580	1.63	0.19	0.39	0.05	66.9	20.1	159	4.63
40210989		10.39			0.13	8.58	14.8	610	1.71	0.31	0.29	0.56	65.8	22.6	154	4.36
40210990		1.11			0.04	8.71	0.2	120	0.43	0.01	6.81	0.08	18.35	60.0	163	1.30
40210991		10.10			0.19	8.61	27.2	600	1.69	0.37	0.27	0.57	61.1	27.3	145	5.42
40210992		11.55			0.17	8.24	20.1	510	1.37	0.21	0.28	0.54	60.2	20.1	158	4.57
40210994		8.48			0.03	7.01	6.4	570	1.09	0.10	0.47	0.02	57.3	15.0	144	3.07
40210995		11.09			0.06	7.49	9.2	520	1.25	0.17	0.33	0.06	63.6	19.0	149	3.92
40210996		11.40			0.20	8.17	24.0	540	1.50	0.30	0.24	0.65	63.5	26.1	136	5.93
40210997		11.16			0.04	7.36	8.2	510	1.35	0.17	0.36	0.03	62.1	17.2	132	3.97
40210998		10.07			0.08	8.43	14.8	580	1.67	0.26	0.34	0.26	65.5	22.1	149	6.59
40210999		10.77			0.14	7.61	16.6	490	1.26	0.20	0.23	0.66	62.5	20.3	145	5.17
40211000		0.17			0.51	9.49	5.0	350	0.63	0.14	6.57	0.28	29.9	65.2	1740	2.87
40211001		10.30			0.14	8.04	19.0	530	1.50	0.22	0.25	0.53	63.7	20.7	157	5.96
40211001 CRD		<0.02			0.14	7.85	15.8	510	1.48	0.21	0.24	0.50	65.5	20.2	148	5.83
40211002		9.96			0.07	7.78	10.5	480	1.50	0.18	0.32	0.09	62.4	16.9	142	5.14
40211003		11.85			0.16	8.47	19.3	510	1.66	0.25	0.38	0.46	67.9	21.8	152	6.69
40211004		10.56			0.14	9.34	15.4	610	1.75	0.28	0.24	0.34	72.1	24.0	162	11.05
40211005		10.32			0.15	8.95	16.8	580	1.75	0.25	0.25	0.43	56.6	23.8	158	10.20
40211006		10.45			0.15	9.41	15.2	620	1.90	0.28	0.26	0.35	70.4	23.9	160	10.75
40211007		9.92			0.20	9.38	19.6	620	1.86	0.29	0.23	0.64	65.8	24.8	159	9.85
40211039		1.13			0.07	8.53	0.8	120	0.46	0.03	6.11	0.11	20.8	71.2	105	1.86
40211040		10.24			0.04	7.31	4.9	470	1.20	0.17	0.48	0.03	52.5	18.2	138	6.75
40211041		10.92			0.09	8.30	8.5	530	1.55	0.22	0.36	0.26	56.5	20.2	155	10.10
40211042		11.74			0.11	8.02	8.7	480	1.41	0.21	0.66	0.23	63.0	19.1	151	8.78
40211043		11.53			0.04	7.00	7.0	390	1.14	0.16	0.61	0.10	65.7	16.4	140	6.00
40211044		11.51			0.09	8.42	7.8	520	1.62	0.23	0.31	0.26	67.2	21.3	160	10.70
40211045		11.68			0.08	8.61	7.6	520	1.54	0.22	0.29	0.16	61.7	20.8	162	10.75
40211046		11.80			0.06	7.96	6.4	460	1.47	0.21	0.38	0.11	61.9	18.9	147	8.88
40211047		11.78			0.13	8.02	11.4	470	1.54	0.22	0.54	0.28	60.4	19.2	153	9.65
40211048		11.49			0.06	8.07	6.8	460	1.40	0.19	0.70	0.06	60.1	18.7	153	9.15
40211049		0.17			0.49	9.24	3.4	350	0.69	0.16	6.48	0.28	29.2	63.8	1670	2.70
40211050		11.54			0.06	8.60	5.1	510	1.60	0.20	0.47	0.06	67.8	21.5	164	11.20
40211051		11.19			0.08	8.16	8.0	470	1.52	0.20	0.45	0.13	67.3	19.7	158	9.90



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132485

Sample Description	Method Analyte Units LOR	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	
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
40097082		105.5	6.89	19.10	0.06	2.0	0.042	0.28	8.1	11.5	5.12	928	1.08	1.67	5.5	285
40210982		59.9	5.64	23.5	0.13	4.1	0.046	3.21	32.8	69.1	1.72	359	3.41	1.26	10.9	81.8
40210983		52.9	5.13	21.8	0.10	4.4	0.034	2.82	27.8	60.2	1.54	316	3.15	1.51	10.3	74.4
40210984		71.8	5.63	24.6	0.12	4.2	0.058	3.31	23.5	66.0	1.70	229	7.63	1.10	10.6	86.9
40210985		53.8	4.78	21.7	0.11	3.9	0.042	2.71	27.5	63.2	1.49	266	4.62	1.30	9.9	72.5
40210986		65.2	5.58	23.2	0.10	3.9	0.053	2.98	30.4	75.4	1.66	302	5.01	1.17	9.9	82.5
40210987		72.1	5.90	24.1	0.12	4.2	0.070	3.12	36.6	76.9	1.64	299	6.58	1.27	9.6	89.9
40210988		51.6	5.25	22.1	0.11	4.2	0.053	2.71	34.3	64.2	1.63	308	2.11	1.45	10.5	78.9
40210989		90.4	5.76	23.6	0.12	4.1	0.069	3.16	34.1	58.0	1.65	228	7.61	1.12	9.7	88.9
40210990		109.5	7.40	18.00	0.08	1.9	0.044	0.30	8.6	13.1	6.18	972	0.46	1.58	5.3	341
40210991		127.0	6.66	24.1	0.12	3.8	0.058	3.23	30.4	54.7	1.69	204	14.25	1.11	8.6	101.5
40210992		63.3	5.30	21.2	0.11	4.1	0.057	2.59	29.9	59.5	1.55	308	7.74	1.38	9.5	85.6
40210994		28.0	4.37	17.20	0.12	4.5	0.035	1.88	26.9	33.1	1.29	279	1.21	1.77	9.1	57.5
40210995		43.1	4.79	19.90	0.13	4.4	0.051	2.18	31.2	40.7	1.36	261	2.19	1.53	9.6	68.0
40210996		99.8	6.46	22.3	0.14	3.9	0.071	2.82	31.7	38.5	1.48	180	11.10	1.23	7.2	95.2
40210997		36.0	4.72	19.65	0.12	3.9	0.053	2.17	31.1	43.6	1.35	239	1.44	1.49	9.6	63.6
40210998		54.5	5.54	22.8	0.13	4.2	0.058	2.84	32.4	48.1	1.55	264	4.20	1.29	10.5	80.2
40210999		59.8	5.30	19.65	0.13	4.3	0.051	2.42	31.8	41.9	1.36	263	6.64	1.54	8.0	74.8
40211000		1120	8.36	21.5	0.10	2.7	0.069	0.88	13.8	30.4	4.49	1080	2.99	1.58	8.2	711
40211001		69.3	5.37	20.9	0.11	4.4	0.052	2.63	31.0	43.3	1.44	257	7.18	1.47	9.2	85.3
40211001 CRD		66.1	5.13	20.4	0.11	4.3	0.054	2.52	33.3	44.8	1.39	254	6.91	1.42	8.9	81.9
40211002		40.2	4.67	19.35	0.12	4.2	0.048	2.32	29.8	50.6	1.43	266	2.13	1.75	9.8	64.5
40211003		60.7	5.53	23.3	0.14	4.1	0.067	2.53	33.1	61.2	1.67	243	13.40	1.34	10.8	81.9
40211004		66.2	6.01	25.3	0.13	4.2	0.076	3.24	36.4	63.9	1.72	350	5.68	1.25	12.0	91.9
40211005		66.0	5.90	24.7	0.13	4.2	0.079	3.06	25.6	66.8	1.68	298	4.95	1.29	12.1	88.3
40211006		66.9	6.08	25.6	0.14	4.2	0.081	3.26	34.3	64.3	1.78	376	4.78	1.24	12.3	92.1
40211007		83.8	6.32	25.4	0.13	4.1	0.080	3.33	30.8	65.4	1.83	273	8.36	1.15	11.7	96.6
40211039		111.0	8.44	17.25	0.10	2.0	0.047	0.31	9.7	8.9	7.52	1150	0.72	1.51	5.8	440
40211040		28.0	4.48	17.65	0.13	4.2	0.046	2.09	25.3	59.0	1.21	281	0.80	1.73	9.0	58.3
40211041		58.3	4.99	21.3	0.12	4.3	0.060	2.66	26.5	65.1	1.42	269	4.42	1.45	10.5	69.1
40211042		56.4	4.88	20.0	0.12	4.5	0.061	2.39	30.8	65.0	1.32	283	4.47	1.62	9.9	65.2
40211043		24.0	4.35	16.95	0.13	4.3	0.052	1.84	31.6	61.5	1.10	286	0.63	1.82	8.8	54.7
40211044		55.1	5.12	22.0	0.14	4.2	0.067	2.67	32.0	69.6	1.41	238	2.71	1.44	11.2	73.8
40211045		50.8	5.20	22.1	0.12	4.3	0.064	2.72	29.5	67.8	1.44	230	2.50	1.42	11.1	72.3
40211046		36.9	4.87	19.95	0.12	4.3	0.058	2.31	30.4	66.4	1.29	239	1.41	1.66	10.0	65.3
40211047		76.1	4.84	20.1	0.12	4.1	0.064	2.43	29.2	66.7	1.32	260	7.71	1.58	10.3	68.5
40211048		37.2	4.73	19.85	0.11	4.5	0.057	2.35	29.7	62.9	1.29	264	1.85	1.60	10.5	63.7
40211049		1120	8.23	20.8	0.10	2.7	0.061	0.87	13.4	35.7	4.42	1060	3.00	1.57	8.0	704
40211050		42.4	5.13	22.8	0.12	4.4	0.069	2.67	33.7	61.4	1.42	243	0.92	1.47	12.0	73.5
40211051		48.7	4.81	21.1	0.14	4.6	0.060	2.47	32.6	60.8	1.31	251	3.51	1.53	10.5	69.2



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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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	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
LOR		10	0.5	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
40097082		490	2.3	3.9	<0.002	0.04	0.85	16.4	1	0.9	316	0.36	<0.05	0.7	0.585	0.03
40210982		490	7.0	134.0	<0.002	0.75	0.80	22.1	2	1.6	128.5	0.77	<0.05	8.9	0.475	0.83
40210983		500	6.7	124.0	<0.002	0.67	0.81	19.9	1	1.4	117.5	0.71	<0.05	8.3	0.427	0.85
40210984		500	9.6	133.0	0.002	0.97	0.80	22.0	1	1.4	90.8	0.74	<0.05	7.8	0.449	1.23
40210985		460	6.0	131.5	<0.002	0.41	0.98	19.3	1	1.3	75.1	0.70	<0.05	7.6	0.412	0.98
40210986		480	5.8	157.0	0.003	1.00	0.82	21.3	1	1.4	78.3	0.71	<0.05	8.3	0.438	1.27
40210987		490	14.1	156.0	0.003	1.40	1.13	22.0	1	1.6	86.4	0.69	<0.05	8.6	0.420	1.41
40210988		520	8.0	126.0	<0.002	0.27	0.56	20.7	1	1.6	111.0	0.75	<0.05	8.3	0.458	0.93
40210989		480	10.9	154.5	0.002	1.23	0.75	21.8	2	1.9	80.1	0.70	<0.05	8.6	0.431	1.29
40210990		470	1.6	6.6	<0.002	0.04	0.20	17.4	1	0.8	294	0.34	<0.05	0.7	0.559	0.04
40210991		480	13.3	165.5	0.005	2.25	1.17	22.5	2	1.7	79.6	0.60	0.05	8.1	0.377	2.20
40210992		510	8.5	135.0	<0.002	0.69	0.90	20.4	1	1.6	80.2	0.67	<0.05	8.6	0.419	1.59
40210994		480	17.0	101.0	<0.002	0.08	0.54	15.6	1	1.2	133.0	0.62	<0.05	8.6	0.382	0.68
40210995		490	12.0	127.0	<0.002	0.42	0.71	18.9	1	1.4	109.0	0.64	<0.05	8.2	0.398	0.84
40210996		480	17.4	161.5	0.006	2.25	1.33	22.0	1	1.6	79.2	0.51	0.08	8.5	0.326	1.99
40210997		470	7.0	124.0	<0.002	0.28	0.65	18.6	1	1.6	107.5	0.65	<0.05	7.7	0.377	0.81
40210998		490	10.4	159.5	<0.002	0.89	1.00	22.2	1	1.8	93.1	0.71	<0.05	8.8	0.425	1.19
40210999		450	10.7	138.0	0.003	1.18	0.96	18.6	1	1.6	96.7	0.57	0.05	8.4	0.347	1.67
40211000		710	7.2	29.2	0.003	0.34	0.66	21.1	2	1.9	428	0.50	0.09	1.4	0.787	0.53
40211001		490	8.9	143.0	0.004	0.98	0.88	20.0	1	1.6	94.6	0.62	<0.05	8.4	0.384	1.61
40211001 CRD		470	9.3	143.5	0.004	0.94	0.85	19.7	1	1.6	93.3	0.61	<0.05	8.4	0.373	1.55
40211002		500	8.2	128.0	0.002	0.35	0.61	18.2	1	1.5	122.5	0.67	<0.05	8.5	0.410	0.94
40211003		500	14.3	150.5	0.003	0.67	1.27	22.2	1	1.9	80.0	0.74	<0.05	8.7	0.449	1.55
40211004		520	17.4	190.0	0.002	1.14	0.76	25.4	1	2.1	82.3	0.80	<0.05	9.3	0.488	1.44
40211005		520	18.6	174.0	0.002	1.22	0.87	24.2	1	2.1	85.3	0.80	0.05	8.2	0.480	1.39
40211006		510	14.6	186.0	0.004	1.06	0.85	25.4	2	2.1	90.6	0.84	0.05	9.2	0.491	1.39
40211007		510	19.4	180.5	0.004	1.42	0.88	25.6	2	2.0	84.3	0.78	0.06	9.1	0.486	1.77
40211039		520	3.9	10.9	<0.002	0.04	0.16	17.9	1	0.9	266	0.36	<0.05	0.9	0.609	0.09
40211040		510	13.3	117.5	<0.002	0.02	0.80	17.0	1	1.5	112.0	0.62	<0.05	7.6	0.389	0.60
40211041		500	20.0	147.5	<0.002	0.13	1.40	20.7	1	1.8	85.9	0.71	<0.05	8.2	0.439	0.92
40211042		510	16.1	140.5	<0.002	0.19	1.75	19.4	1	1.7	98.8	0.68	<0.05	8.4	0.429	0.89
40211043		450	13.2	106.5	<0.002	0.01	1.27	16.3	1	1.4	108.0	0.59	<0.05	7.8	0.377	0.50
40211044		500	17.3	151.0	<0.002	0.12	1.78	21.7	1	1.8	85.8	0.73	0.05	8.2	0.451	0.87
40211045		480	16.2	156.0	<0.002	0.16	1.80	21.3	1	1.8	82.8	0.75	<0.05	8.6	0.464	0.89
40211046		490	15.8	135.0	<0.002	0.06	1.44	19.5	1	1.7	95.8	0.69	<0.05	8.4	0.417	0.69
40211047		470	17.2	140.5	0.002	0.24	2.45	19.9	1	1.7	91.3	0.68	0.05	8.3	0.421	1.03
40211048		500	14.6	137.5	<0.002	0.07	1.37	19.4	1	1.6	93.5	0.68	<0.05	8.2	0.433	0.72
40211049		710	6.5	23.8	0.002	0.32	0.48	20.6	2	1.8	426	0.49	0.08	1.3	0.775	0.53
40211050		530	13.3	163.0	<0.002	0.07	1.31	22.3	1	1.9	92.1	0.78	<0.05	8.8	0.474	0.79
40211051		500	15.2	148.5	<0.002	0.10	1.53	20.5	1	1.8	92.1	0.72	<0.05	8.9	0.435	0.79



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-ICP24	PGM-ICP24	PGM-ICP24	ME-ICP81	ME-ICP81	ME-ICP81
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001	Cu % 0.002	Ni % 0.002	S % 0.01
40097082		0.2	125	0.3	13.3	82	71.5	0.002	<0.005	0.006			
40210982		5.8	141	1.4	22.7	88	142.5	0.001	<0.005	0.002	0.007	0.011	0.68
40210983		5.1	127	1.2	21.0	74	156.5	<0.001	<0.005	0.001	0.006	0.009	0.63
40210984		6.6	149	1.2	22.9	154	150.0	<0.001	<0.005	0.002	0.008	0.007	0.95
40210985		4.3	123	1.3	20.4	66	135.5	<0.001	<0.005	0.002			
40210986		5.8	140	1.2	22.7	105	135.0	<0.001	<0.005	0.002	0.007	0.005	0.99
40210987		7.1	148	1.4	23.4	185	150.0	<0.001	<0.005	0.002	0.008	0.011	1.30
40210988		4.1	131	1.2	21.8	75	145.5	<0.001	<0.005	0.001			
40210989		6.4	151	1.2	24.2	165	138.0	0.002	<0.005	0.002	0.010	0.010	1.28
40210990		0.2	118	0.1	13.8	78	68.3	0.003	<0.005	0.006			
40210991		9.5	153	1.0	24.8	173	134.0	<0.001	<0.005	0.002	0.014	0.008	2.16
40210992		5.4	137	1.1	22.5	163	144.5	<0.001	<0.005	0.002	0.009	0.010	0.69
40210994		3.2	95	1.0	19.0	58	163.0	<0.001	<0.005	0.001			
40210995		3.6	107	1.1	21.0	93	162.5	<0.001	<0.005	0.001			
40210996		8.4	139	1.0	24.6	218	143.5	<0.001	<0.005	0.001	0.011	0.010	2.23
40210997		3.3	103	1.2	19.9	76	138.5	<0.001	<0.005	0.001			
40210998		5.1	134	1.3	23.1	133	150.0	0.001	<0.005	0.001	0.006	0.006	0.87
40210999		5.9	120	1.0	21.6	185	158.0	0.001	<0.005	0.001	0.007	0.007	1.18
40211000		0.4	171	0.3	20.7	109	104.0	0.023	0.045	0.231	0.113	0.068	0.34
40211001		6.3	135	1.1	22.7	157	160.0	0.002	<0.005	0.002	0.008	0.009	0.96
40211001 CRD		5.9	129	1.1	22.7	146	157.0	0.001	<0.005	0.002	0.007	0.009	0.95
40211002		4.0	110	1.1	20.7	92	151.0	<0.001	<0.005	0.001			
40211003		5.7	140	1.2	24.0	180	146.0	<0.001	<0.005	0.002	0.007	0.005	0.67
40211004		6.3	155	1.5	25.8	183	148.0	0.001	<0.005	0.002	0.008	0.007	1.09
40211005		6.2	151	1.4	23.0	191	148.0	0.001	<0.005	0.002	0.007	0.009	1.19
40211006		6.0	157	1.4	25.2	180	150.5	0.001	<0.005	0.002	0.008	0.010	1.02
40211007		7.8	166	1.5	26.1	214	148.5	0.001	<0.005	0.002	0.009	0.008	1.38
40211039		0.2	116	0.1	15.1	99	78.8	0.001	<0.005	0.006			
40211040		3.0	97	1.0	19.4	93	153.0	0.001	<0.005	0.001			
40211041		4.4	123	1.2	20.9	133	153.5	0.001	<0.005	0.002			
40211042		4.4	116	1.2	21.7	125	163.5	0.001	<0.005	0.001			
40211043		3.0	88	1.0	18.1	112	164.0	0.001	<0.005	0.001			
40211044		4.2	125	1.3	21.7	143	156.5	0.001	<0.005	0.001			
40211045		4.1	127	1.3	22.0	126	154.5	0.002	<0.005	0.002			
40211046		3.5	109	1.1	20.3	105	157.5	0.001	<0.005	0.001			
40211047		5.2	118	1.2	21.0	127	154.0	0.002	<0.005	0.001			
40211048		3.6	112	1.1	20.5	102	165.0	0.001	<0.005	0.001			
40211049		0.4	168	0.3	20.2	109	105.0	0.021	0.054	0.227	0.114	0.067	0.38
40211050		3.8	124	1.3	23.0	112	161.5	0.001	<0.005	0.001			
40211051		4.4	117	1.2	21.8	110	166.5	0.001	<0.005	0.001			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132485

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm
40211052		10.93			0.05	7.98	5.4	470	1.46	0.21	0.54	0.06	63.6	19.9	157	10.10
40211052 CRD		<0.02			0.05	7.97	4.9	470	1.51	0.20	0.54	0.05	61.8	19.5	156	9.86
40211053		11.16			0.05	7.62	6.1	430	1.41	0.18	0.63	0.08	60.0	18.4	143	8.46
40211054		11.15			0.17	8.13	14.3	480	1.57	0.24	0.40	0.53	63.2	20.7	154	10.55
40211055		11.11			0.07	8.82	7.2	530	1.66	0.23	0.32	0.11	70.6	21.7	163	12.00
40211056		11.23			0.05	7.18	5.6	390	1.27	0.16	0.82	0.04	60.0	16.7	134	7.39
40211057		10.80			0.05	7.32	7.9	390	1.37	0.17	0.48	0.18	56.1	17.5	139	7.45
40211058		10.86			0.38	9.23	21.7	600	1.96	0.37	0.26	1.14	67.2	24.6	167	15.00
40211059		4.58			0.06	6.83	8.0	340	1.17	0.16	0.82	0.11	55.9	15.2	131	6.45
40211060		5.18	81.2	90.4	0.05	6.73	8.8	340	1.20	0.16	0.86	0.10	52.3	15.3	131	6.33
40211061		11.51			0.05	6.00	4.7	280	1.02	0.12	0.59	0.06	43.3	13.1	113	4.19
40211062		9.57			0.06	7.27	4.9	400	1.41	0.19	0.94	0.09	56.7	16.8	135	7.27
40211063		12.16			0.07	7.40	2.4	460	0.99	0.09	3.35	0.09	41.5	36.1	112	4.25
40211064		12.45			0.06	7.22	3.1	390	1.09	0.11	2.75	0.21	43.9	30.6	117	4.56
40211065		10.68			0.07	7.03	4.5	360	1.34	0.15	0.79	0.12	53.7	14.8	132	6.65
40211066		11.96			0.07	7.73	6.8	420	1.44	0.18	0.99	0.08	60.1	18.3	147	8.90
40211067		10.45			0.13	8.15	10.0	460	1.58	0.25	0.25	0.28	60.1	19.5	158	10.45
40211068		11.51			0.05	6.44	4.7	340	1.13	0.13	0.92	0.07	50.8	14.2	119	5.95
40211069		10.06			0.08	7.88	7.5	460	1.52	0.20	0.36	0.11	54.4	18.6	152	10.00



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132485

Sample Description	Method Analyte Units LOR	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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
40211052		36.3	4.86	20.5	0.14	4.2	0.063	2.43	31.4	62.5	1.32	250	0.59	1.44	10.5	68.8
40211052 CRD		34.5	4.88	20.4	0.13	4.3	0.063	2.45	30.1	63.0	1.32	250	0.57	1.45	10.4	67.6
40211053		31.9	4.67	19.10	0.14	4.4	0.056	2.18	29.0	61.9	1.22	241	0.56	1.64	9.6	62.2
40211054		104.0	4.94	20.8	0.13	4.1	0.062	2.56	31.0	67.6	1.36	252	11.55	1.44	10.1	74.2
40211055		42.7	5.23	23.1	0.14	4.4	0.074	2.81	35.2	72.6	1.49	224	1.30	1.42	12.2	75.1
40211056		28.2	4.21	17.60	0.11	4.3	0.051	1.98	28.7	56.0	1.11	260	0.74	1.71	9.0	53.5
40211057		30.6	4.42	18.00	0.11	4.3	0.058	1.97	26.9	62.7	1.17	223	0.97	1.76	9.1	57.2
40211058		193.0	5.65	25.2	0.14	4.0	0.078	3.35	32.5	79.8	1.68	246	19.55	1.00	11.8	94.6
40211059		36.2	3.81	16.65	0.09	4.5	0.050	1.79	26.6	56.7	0.99	233	1.95	1.72	8.3	60.8
40211060		29.2	3.77	16.55	0.12	4.4	0.055	1.79	25.2	54.4	0.99	242	1.07	1.73	8.1	54.7
40211061		22.2	3.36	14.25	0.10	4.2	0.038	1.40	20.1	47.8	0.82	180	0.77	1.91	6.9	47.1
40211062		33.7	3.99	18.00	0.12	4.1	0.049	1.96	27.3	52.7	1.06	233	0.70	1.77	8.7	58.9
40211063		109.0	6.77	20.0	0.13	3.5	0.061	1.59	19.9	51.5	2.32	823	0.62	1.83	6.7	71.7
40211064		90.6	5.74	19.00	0.11	3.8	0.056	1.41	20.3	49.1	1.98	659	0.93	1.91	7.0	68.6
40211065		32.2	3.87	16.45	0.12	4.0	0.051	1.97	25.5	51.5	1.03	220	1.32	1.71	8.2	53.0
40211066		37.7	4.32	19.30	0.13	4.5	0.050	2.37	29.2	58.7	1.17	263	1.12	1.62	9.6	63.8
40211067		71.8	4.70	20.9	0.15	4.3	0.055	2.66	29.0	63.3	1.29	194	5.20	1.44	10.0	72.4
40211068		27.9	3.65	15.45	0.15	3.8	0.044	1.72	23.9	50.7	0.94	239	0.82	1.68	7.4	49.1
40211069		43.8	4.62	20.7	0.12	4.0	0.065	2.55	25.2	63.2	1.27	211	1.60	1.50	9.9	68.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132485

Sample Description	Method Analyte Units LOR	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	
		P ppm 10	Pb ppm 0.5	Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.2	Ti % 0.005	Tl ppm 0.02
40211052		500	14.2	148.5	<0.002	0.03	1.15	20.1	1	1.7	89.4	0.70	<0.05	8.5	0.435	0.67
40211052 CRD		510	12.4	145.5	<0.002	0.03	1.07	20.1	1	1.7	89.3	0.71	<0.05	8.2	0.436	0.67
40211053		470	14.6	128.5	<0.002	0.03	1.06	18.3	1	1.6	100.0	0.66	<0.05	8.2	0.406	0.59
40211054		460	21.9	152.5	0.002	0.29	2.98	20.6	1	1.8	89.5	0.68	0.05	8.5	0.417	1.14
40211055		560	15.5	166.0	<0.002	0.07	1.59	22.9	1	1.9	87.4	0.80	<0.05	9.3	0.492	0.86
40211056		480	12.3	114.0	<0.002	0.03	0.97	16.8	1	1.5	103.0	0.61	<0.05	7.8	0.371	0.55
40211057		470	15.9	116.0	<0.002	0.04	1.13	17.2	1	1.5	99.9	0.62	<0.05	7.9	0.376	0.59
40211058		470	35.4	191.5	0.005	0.80	5.46	25.9	2	2.0	68.6	0.79	0.13	9.1	0.467	2.03
40211059		450	22.6	104.0	0.004	0.04	1.04	15.4	1	1.4	103.5	0.57	<0.05	7.7	0.334	0.53
40211060		440	14.4	101.0	<0.002	0.03	1.01	15.3	1	1.3	105.0	0.58	<0.05	7.5	0.326	0.49
40211061		440	15.6	78.7	<0.002	0.01	0.83	12.4	1	1.2	102.5	0.47	<0.05	6.8	0.285	0.37
40211062		470	16.1	113.5	<0.002	0.03	0.77	16.8	1	1.5	108.5	0.59	<0.05	7.6	0.363	0.51
40211063		560	8.9	78.8	0.002	0.02	0.44	26.8	1	1.1	304	0.44	<0.05	4.6	0.588	0.42
40211064		510	11.5	70.7	<0.002	0.02	0.63	23.8	1	1.2	200	0.48	<0.05	5.2	0.515	0.42
40211065		500	14.0	106.0	<0.002	0.05	0.88	15.2	1	1.4	95.7	0.57	<0.05	7.5	0.346	0.58
40211066		490	14.0	132.5	0.002	0.08	1.35	18.8	1	1.5	106.5	0.64	<0.05	8.2	0.399	0.71
40211067		510	16.5	147.5	0.002	0.23	2.33	20.3	1	1.6	87.3	0.68	<0.05	8.3	0.433	0.94
40211068		410	15.1	97.1	0.002	0.04	0.93	14.2	1	1.3	104.5	0.51	<0.05	6.8	0.310	0.46
40211069		500	15.4	138.5	<0.002	0.10	1.62	19.7	1	1.7	95.0	0.64	<0.05	7.6	0.418	0.72



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132485

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-ICP24	PGM-ICP24	PGM-ICP24	ME-ICP81	ME-ICP81	ME-ICP81
		U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001	Cu % 0.002	Ni % 0.002	S % 0.01
40211052		3.4	113	1.2	21.5	108	153.5	0.001	<0.005	0.002			
40211052 CRD		3.3	115	1.2	21.3	103	155.5	0.001	<0.005	0.001			
40211053		3.2	103	1.1	19.9	96	159.5	0.001	<0.005	0.001			
40211054		6.4	127	1.2	21.9	152	151.0	0.002	<0.005	0.002			
40211055		4.0	130	1.4	23.6	130	163.0	0.001	<0.005	0.001			
40211056		3.1	92	1.0	18.9	84	159.5	0.001	<0.005	0.001			
40211057		3.1	95	1.1	18.4	127	158.5	0.001	<0.005	0.001			
40211058		9.3	166	1.5	25.7	215	143.5	0.004	<0.005	0.003	0.022	0.008	0.80
40211059		3.0	87	1.0	18.0	98	158.0	0.001	<0.005	0.001			
40211060		3.0	86	1.0	17.4	95	157.5	0.001	<0.005	0.001			
40211061		2.5	68	0.8	15.3	81	145.5	<0.001	<0.005	0.001			
40211062		3.1	96	1.0	18.5	95	151.5	0.001	<0.005	0.001			
40211063		1.8	202	0.6	20.9	102	121.5	0.002	<0.005	0.010			
40211064		2.1	171	0.7	19.3	132	131.5	0.002	<0.005	0.007			
40211065		3.2	92	1.1	17.8	99	143.5	0.001	<0.005	0.001			
40211066		3.5	107	1.1	19.7	94	156.5	0.001	<0.005	0.001			
40211067		4.8	126	1.3	20.0	130	146.0	0.002	<0.005	0.002			
40211068		2.6	82	0.9	15.8	91	135.5	0.001	<0.005	0.001			
40211069		3.5	116	1.2	19.3	139	143.5	0.001	<0.005	0.001			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
 ME-MS61

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.			
	BAG-04	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-32	PUL-32d
	PUL-QC	SPL-21	SPL-21d	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	ME-ICP81	ME-MS61	PGM-ICP24	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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VANCOUVER BC V6C 1S4

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Project: EB80002682
 P.O. No.: 3101202290
 This report is for 66 Drill Core samples submitted to our lab in Thunder Bay, ON,
 Canada on 1-SEP-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

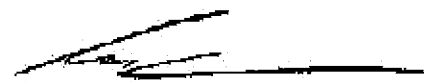
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MSB1	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

To: **RIO TINTO EXPLORATION CANADA INC.**
ATTN: BRIAN GOLDNER
354-200 GRANVILLE STREET
VANCOUVER BC V6C 1S4

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Account: KAV

Project: EB80002682

CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte Units LOR	Recvd Wt. kg 0.02	Pass2mm % 0.01	Pass75um % 0.01	SiO2 % 0.01	Al2O3 % 0.01	Fe2O3 % 0.01	CaO % 0.01	Na2O % 0.01	MgO % 0.01	K2O % 0.01	Cr2O3 % 0.01	TiO2 % 0.01	MnO % 0.01	P2O5 % 0.01	SrO % 0.01
40097083		1.27		85.8	45.4	17.35	11.60	9.63	2.10	10.85	0.33	0.03	0.96	0.14	0.09	0.03
40210975		11.80	74.8		49.4	14.50	14.50	6.66	3.22	3.19	2.83	<0.01	3.02	0.18	0.40	0.08
40210976		11.76			49.9	14.75	14.05	6.14	3.43	3.23	2.97	<0.01	2.77	0.17	0.38	0.06
40210977		11.48			50.5	15.45	14.30	5.50	3.09	3.42	3.30	<0.01	2.92	0.17	0.39	0.11
40210978		11.58			49.5	15.15	15.25	6.02	2.83	3.58	3.44	0.01	3.05	0.17	0.38	0.11
40210979		5.47			49.7	15.05	15.15	5.73	3.04	3.54	3.10	0.01	3.20	0.17	0.38	0.11
40210980		5.38			49.7	14.50	15.95	5.95	2.95	3.80	3.00	0.01	3.07	0.18	0.37	0.10
40210981		8.83			49.4	13.25	16.80	5.25	2.68	4.09	2.29	0.01	3.36	0.19	0.39	0.05
40210993		2.44			52.4	15.90	14.20	2.34	1.75	3.88	2.87	0.01	2.43	0.12	0.30	0.02
40211008		9.53			59.4	17.75	9.36	0.31	1.62	3.19	3.60	0.03	0.79	0.04	0.10	0.01
40211009		2.14			60.2	18.35	9.25	0.31	1.35	3.24	4.08	0.03	0.83	0.06	0.10	0.01
40211010		2.28			59.9	18.25	9.76	0.52	1.49	3.31	3.90	0.03	0.94	0.06	0.11	0.01
40211011		7.25			48.9	13.15	17.40	6.04	2.74	4.41	1.85	0.01	3.51	0.20	0.43	0.05
40211012		5.56			48.7	13.00	17.70	6.44	2.85	4.39	2.08	0.01	3.66	0.21	0.41	0.07
40211013		6.27			48.9	13.00	17.75	6.52	2.81	4.38	2.03	0.01	3.64	0.20	0.40	0.08
40211014		6.96			49.8	13.00	16.90	6.60	2.81	4.18	1.95	0.01	3.63	0.20	0.42	0.08
40211015		6.10			49.4	12.85	17.00	7.12	2.95	4.11	1.31	<0.01	3.61	0.20	0.43	0.06
40211016		7.81			49.0	12.85	16.90	6.96	2.92	3.95	1.96	<0.01	3.65	0.20	0.42	0.07
40211017		5.38			48.9	12.90	17.05	6.56	3.12	4.09	2.18	0.01	3.61	0.20	0.41	0.07
40211018		6.86			49.8	12.25	17.00	7.28	3.52	3.78	1.69	<0.01	3.76	0.20	0.44	0.05
40211018 CRD		<0.02			49.0	12.05	16.75	7.24	3.48	3.73	1.66	<0.01	3.71	0.20	0.45	0.05
40211019		6.48			49.3	12.85	17.00	7.03	3.13	4.07	1.31	0.01	3.59	0.20	0.42	0.07
40211020		1.42			46.8	19.40	9.72	10.00	2.35	8.29	0.33	0.02	1.01	0.12	0.13	0.03
40211021		6.51			49.0	12.90	16.85	7.06	3.17	4.14	1.19	0.01	3.58	0.20	0.42	0.06
40211022		6.93			49.2	13.20	17.00	7.27	3.21	4.36	1.02	0.01	3.52	0.20	0.39	0.06
40211023		6.05			48.7	13.10	16.95	7.33	3.13	4.34	1.02	0.01	3.58	0.20	0.38	0.06
40211024		6.07			48.3	12.85	16.65	7.05	3.04	4.15	1.56	0.01	3.61	0.20	0.39	0.07
40211025		7.33			48.7	12.95	16.75	6.62	2.90	4.11	2.43	0.01	3.65	0.20	0.42	0.07
40211026		5.51			49.1	12.80	16.90	7.14	3.12	4.03	1.13	0.01	3.60	0.20	0.40	0.06
40211027		6.09			48.3	12.75	16.85	6.92	3.11	4.02	1.67	0.01	3.61	0.20	0.41	0.05
40211028		6.13			49.4	12.90	17.20	7.10	3.13	4.11	1.19	<0.01	3.67	0.20	0.41	0.06
40211029		6.70			49.2	12.85	16.80	6.95	3.15	4.05	1.24	0.01	3.58	0.20	0.41	0.06
40211030		0.17			45.1	18.55	11.90	9.24	2.10	7.39	1.06	0.35	1.31	0.15	0.16	0.05
40211031		6.48			49.4	12.80	17.05	6.93	3.00	4.36	1.21	0.01	3.57	0.21	0.41	0.06
40211032		8.58			49.7	12.95	16.75	6.70	2.97	4.14	1.16	0.01	3.50	0.20	0.40	0.05
40211033		6.85			60.6	18.25	9.35	0.45	1.75	3.05	3.59	0.03	0.82	0.04	0.11	0.01
40211034		11.10			58.7	18.20	9.87	0.38	1.55	2.97	3.86	0.03	0.82	0.04	0.11	0.01
40211035		4.78			49.2	12.95	16.80	5.67	2.47	4.01	1.38	<0.01	3.57	0.20	0.44	0.04
40211036		10.83			60.1	18.55	8.43	0.43	1.50	3.07	4.11	0.03	0.83	0.04	0.12	0.01
40211037		10.56			59.3	17.75	8.70	0.43	1.65	3.04	3.63	0.02	0.80	0.05	0.11	0.01



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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 Account: KAV

Project: EB80002682

CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
40097083		0.01	0.02	0.03	125.5	18.4	220	1.40	2.72	1.42	1.07	18.4	2.65	<5	1.9	0.56
40210975		0.06	0.04	0.31	578	69.6	20	2.01	6.84	3.70	2.69	24.8	8.34	<5	6.1	1.41
40210976		0.07	0.07	0.13	708	65.3	20	2.00	6.21	3.34	2.48	24.6	7.49	<5	5.5	1.24
40210977		0.08	0.02	0.11	660	61.9	20	1.89	6.45	3.09	2.32	26.9	7.26	<5	5.8	1.31
40210978		0.08	0.04	0.17	670	58.8	60	1.81	6.16	3.21	2.18	26.4	7.20	<5	5.4	1.18
40210979		0.08	0.03	0.09	665	60.3	40	1.58	6.43	3.20	2.31	26.4	7.83	<5	6.1	1.24
40210980		0.08	0.04	0.06	646	59.4	40	1.31	6.49	3.27	2.01	25.8	7.97	<5	5.8	1.27
40210981		0.11	0.02	0.39	917	71.4	70	1.86	7.21	3.91	2.41	26.6	9.03	<5	6.9	1.38
40210993		0.07	0.02	0.83	603	79.3	100	5.36	6.49	3.21	2.15	26.7	7.67	<5	6.0	1.26
40211008		0.07	0.03	1.21	553	60.4	170	5.06	4.90	2.56	1.40	26.2	5.21	<5	3.9	0.90
40211009		0.07	0.02	0.97	618	64.5	170	5.90	4.48	2.63	1.34	26.0	4.62	<5	4.0	0.93
40211010		0.07	0.01	1.00	599	66.5	170	5.68	4.85	2.70	1.47	27.2	5.34	<5	4.2	0.97
40211011		0.11	0.04	0.12	905	70.6	30	1.49	7.23	3.69	2.81	25.8	8.72	<5	7.1	1.39
40211012		0.08	0.03	0.09	639	69.3	30	1.59	7.18	3.65	2.57	26.0	8.82	<5	7.4	1.51
40211013		0.06	0.02	0.11	474	69.9	30	1.51	7.59	3.58	2.77	27.0	9.02	<5	7.3	1.42
40211014		0.05	0.01	0.12	454	73.1	40	2.11	7.37	3.81	3.05	26.0	9.03	<5	7.3	1.49
40211015		0.04	0.01	0.05	333	72.0	40	3.01	7.50	3.86	3.01	25.0	9.05	<5	6.9	1.43
40211016		0.04	0.01	0.10	381	76.9	30	1.96	7.84	3.92	3.12	26.6	9.67	<5	7.5	1.50
40211017		0.05	0.01	0.31	484	74.7	40	1.14	7.41	3.72	3.02	25.7	8.97	<5	7.3	1.48
40211018		0.04	0.01	0.23	376	82.7	30	1.09	8.58	4.38	3.41	26.6	9.97	<5	7.9	1.72
40211018 CRD		0.04	0.02	0.22	356	79.7	20	1.09	8.02	4.10	3.30	25.0	9.96	<5	7.4	1.61
40211019		0.04	0.04	0.05	316	72.9	40	2.31	7.42	3.87	3.00	25.5	9.08	<5	7.2	1.47
40211020		0.01	0.02	0.03	130.0	21.0	160	1.26	2.91	1.60	1.06	19.7	3.00	<5	2.1	0.62
40211021		0.03	0.02	0.03	312	69.7	50	3.32	7.20	3.72	2.88	25.1	8.68	<5	6.7	1.45
40211022		0.03	0.01	0.04	304	68.3	60	4.22	6.65	3.55	2.86	25.9	8.96	<5	6.5	1.36
40211023		0.03	0.05	0.03	310	68.7	60	4.16	6.90	3.70	2.90	26.0	8.51	<5	6.8	1.39
40211024		0.04	0.01	0.09	361	71.6	50	2.48	7.41	3.75	2.90	27.2	8.89	<5	6.9	1.44
40211025		0.05	0.02	0.13	505	71.7	40	1.55	7.38	3.86	3.04	25.7	9.01	<5	6.9	1.49
40211026		0.04	0.02	0.03	348	74.3	40	4.79	7.48	3.90	3.11	26.0	9.47	<5	7.1	1.53
40211027		0.05	0.05	0.11	470	74.4	40	2.79	7.57	3.89	3.02	25.2	9.46	<5	7.2	1.48
40211028		0.04	0.01	0.03	392	74.0	40	5.48	7.88	3.99	3.10	26.2	9.17	<5	7.4	1.55
40211029		0.04	0.01	0.03	381	74.1	40	7.19	7.30	3.75	3.08	25.7	8.86	<5	7.0	1.48
40211030		0.04	0.04	0.31	347	26.1	2660	2.46	3.39	1.90	1.34	21.1	3.80	<5	2.8	0.74
40211031		0.04	0.02	0.03	393	72.0	40	5.97	7.38	3.79	2.94	24.5	8.87	<5	6.8	1.50
40211032		0.05	0.02	0.14	430	73.3	50	5.36	7.43	4.05	2.86	25.4	9.08	<5	7.0	1.49
40211033		0.07	0.02	1.54	659	66.7	190	5.78	4.75	2.65	1.31	25.2	5.63	<5	3.9	0.97
40211034		0.07	0.03	1.65	663	63.2	190	7.15	4.48	2.73	1.32	25.0	5.48	<5	4.0	1.01
40211035		0.05	0.02	0.49	491	72.9	40	2.07	7.31	3.70	2.97	25.6	9.01	<5	6.8	1.43
40211036		0.07	0.14	0.78	635	67.4	200	11.75	4.85	2.70	1.50	25.3	5.38	<5	3.9	0.97
40211037		0.06	0.62	1.15	546	65.4	190	12.05	4.55	2.81	1.44	23.9	5.62	<5	3.8	0.94



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
	Analyte	La	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V
Units		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.5	0.01	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5
40097083		8.2	0.22	5.3	10.0	2.45	10.0	2.54	1	292	0.3	0.41	0.79	0.23	0.22	145
40210975		30.2	0.47	21.9	38.2	9.15	115.0	8.78	3	771	1.3	1.25	4.08	0.48	1.14	322
40210976		28.9	0.40	19.8	34.7	8.31	115.0	8.42	3	516	1.3	1.09	3.60	0.46	1.06	286
40210977		27.7	0.41	19.1	35.8	8.19	118.0	8.33	2	867	1.2	1.05	3.78	0.42	1.11	280
40210978		26.2	0.34	18.3	32.8	7.93	122.5	7.79	3	840	1.1	1.03	3.56	0.40	1.06	339
40210979		26.4	0.44	20.3	35.2	7.86	106.5	8.38	3	842	1.2	1.01	3.78	0.39	1.15	349
40210980		26.6	0.42	19.1	34.6	7.91	102.0	8.48	3	763	1.2	1.10	3.62	0.42	0.98	327
40210981		32.2	0.51	22.2	40.4	9.42	79.2	9.02	5	397	1.3	1.29	4.92	0.54	1.75	365
40210993		38.0	0.52	18.4	39.9	9.98	113.0	8.62	3	146.5	1.2	1.16	6.97	0.44	3.66	279
40211008		28.7	0.39	10.5	30.9	7.80	152.0	6.23	2	85.2	0.7	0.76	9.07	0.39	7.67	171
40211009		33.0	0.39	10.6	32.4	8.05	147.5	6.35	2	83.4	0.7	0.78	9.01	0.38	6.59	168
40211010		34.0	0.37	11.3	32.9	8.47	143.5	6.44	2	99.0	0.7	0.76	8.90	0.38	6.76	177
40211011		31.0	0.47	24.7	41.2	9.43	70.8	10.20	3	408	1.6	1.31	4.22	0.48	1.25	374
40211012		31.1	0.49	24.7	39.5	9.40	76.6	9.88	3	509	1.5	1.26	4.30	0.51	1.20	394
40211013		31.1	0.44	25.3	40.1	9.21	72.7	9.36	3	597	1.6	1.25	4.09	0.50	1.23	394
40211014		31.6	0.49	27.5	41.1	9.79	73.2	9.70	3	672	1.7	1.37	4.30	0.54	1.25	441
40211015		31.6	0.48	26.8	41.1	9.64	47.9	9.38	2	556	1.7	1.33	4.34	0.54	1.28	435
40211016		33.3	0.53	28.8	43.2	10.25	77.5	10.10	3	615	1.8	1.38	4.51	0.57	1.40	449
40211017		32.6	0.48	27.4	42.4	9.86	86.1	9.90	3	638	1.7	1.38	4.47	0.55	1.33	448
40211018		36.0	0.54	30.4	46.8	11.00	64.1	10.85	3	469	1.9	1.56	4.79	0.65	1.45	456
40211018 CRD		34.7	0.50	29.0	45.4	10.45	60.4	10.70	3	445	1.8	1.45	4.65	0.59	1.41	432
40211019		31.8	0.45	27.4	42.1	9.67	48.4	9.90	3	544	1.7	1.33	4.29	0.55	1.34	435
40211020		9.6	0.20	6.4	12.4	2.84	8.0	3.00	1	297	0.4	0.47	0.89	0.24	0.23	129
40211021		30.7	0.45	26.6	39.8	9.29	44.4	9.73	2	538	1.7	1.28	4.19	0.54	1.28	441
40211022		29.8	0.44	25.9	39.9	9.07	41.9	9.41	2	548	1.6	1.33	3.97	0.53	1.22	467
40211023		30.2	0.44	25.7	39.7	9.11	42.6	9.01	2	551	1.6	1.28	3.96	0.52	1.19	484
40211024		31.5	0.44	27.3	40.7	9.54	61.3	9.39	2	599	1.7	1.34	4.31	0.55	1.31	472
40211025		31.3	0.47	27.6	41.3	9.78	87.9	10.00	3	590	1.7	1.43	4.17	0.53	1.20	454
40211026		32.4	0.47	28.1	41.8	9.93	45.3	9.53	2	529	1.7	1.38	4.47	0.52	1.33	454
40211027		32.8	0.45	28.0	42.4	10.00	62.7	10.25	3	472	1.8	1.40	4.37	0.58	1.26	452
40211028		32.4	0.48	28.0	42.7	10.00	47.5	10.00	3	512	1.7	1.42	4.44	0.54	1.31	453
40211029		32.0	0.48	27.6	42.9	9.71	52.1	10.10	3	501	1.7	1.34	4.42	0.56	1.30	450
40211030		11.7	0.27	10.5	15.0	3.49	35.0	3.51	2	423	0.5	0.57	1.22	0.32	0.34	182
40211031		31.7	0.46	27.3	40.9	9.61	52.1	9.54	2	481	1.7	1.34	4.14	0.51	1.29	442
40211032		32.1	0.50	27.4	41.5	9.87	52.3	9.84	3	456	1.7	1.35	4.46	0.54	1.58	440
40211033		32.9	0.43	11.7	33.2	8.55	140.0	6.67	2	89.6	0.8	0.81	8.97	0.43	7.87	188
40211034		30.7	0.41	11.9	30.9	7.88	159.0	6.66	2	96.4	0.8	0.79	9.00	0.39	8.03	187
40211035		31.7	0.44	26.9	41.4	9.73	52.5	9.84	2	364	1.7	1.31	4.43	0.52	1.29	438
40211036		33.6	0.41	11.5	33.3	8.56	190.0	6.73	2	115.0	0.8	0.81	9.15	0.43	6.87	184
40211037		32.5	0.40	11.2	31.5	8.38	171.0	6.42	2	86.9	0.8	0.79	8.71	0.43	7.02	179



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40097083		<1	14.4	1.43	76	0.5	0.01	0.009	0.016	0.001	<0.05	0.5	0.01	0.03	0.69	99.21
40210975		1	36.0	3.22	254	1.0	0.04	0.010	0.026	0.001	0.21	1.4	0.01	0.06	1.55	99.59
40210976		1	32.5	2.63	218	2.3	0.03	0.015	0.028	0.001	0.15	1.2	0.01	0.04	1.81	99.73
40210977		1	29.7	2.57	216	2.9	0.03	0.015	0.026	<0.001	0.14	1.1	0.01	0.06	1.67	100.90
40210978		1	28.6	2.60	205	3.7	0.04	0.011	0.032	0.001	0.18	1.2	0.01	0.09	1.86	101.43
40210979		1	30.0	2.71	224	4.4	0.04	0.014	0.030	<0.001	0.17	1.2	0.01	0.09	1.52	100.78
40210980		1	29.0	2.90	208	3.3	0.04	0.013	0.033	0.001	0.16	1.2	0.01	0.08	1.57	101.23
40210981		1	34.5	3.22	240	7.7	0.07	0.012	0.055	0.001	0.35	1.4	0.01	0.23	1.60	99.47
40210993		2	31.1	3.13	210	15.4	0.30	0.011	0.089	0.002	0.41	1.7	0.04	0.50	3.74	100.03
40211008		2	22.9	2.61	137	13.9	0.16	0.010	0.044	0.005	0.17	1.4	0.04	0.37	3.86	100.13
40211009		1	23.0	2.66	135	10.8	0.08	0.011	0.027	0.003	0.10	1.3	0.03	0.39	3.77	101.65
40211010		2	24.1	2.83	141	11.4	0.10	0.008	0.030	0.004	0.12	1.5	0.04	0.38	3.61	101.96
40211011		1	33.1	3.15	251	3.0	0.07	0.013	0.039	<0.001	0.20	1.5	0.01	0.18	1.96	100.76
40211012		1	33.4	2.99	254	1.8	0.07	0.013	0.026	0.001	0.16	1.2	<0.01	0.14	1.44	101.04
40211013		1	33.3	3.32	253	2.7	0.05	0.012	0.024	0.001	0.18	1.4	0.01	0.12	1.48	101.26
40211014		1	36.7	3.33	293	2.1	0.06	0.012	0.024	0.001	0.16	1.5	0.01	0.14	1.25	100.88
40211015		1	36.2	3.34	287	2.7	0.07	0.010	0.022	0.001	0.13	1.4	0.01	0.19	0.86	99.94
40211016		3	38.8	3.31	303	2.7	0.08	0.010	0.019	0.001	0.17	1.3	<0.01	0.10	1.03	99.95
40211017		1	37.1	3.42	286	5.5	0.10	0.010	0.017	0.001	0.23	1.5	0.01	0.06	1.21	100.36
40211018		1	41.5	3.88	321	3.8	0.09	0.010	0.021	<0.001	0.24	1.4	0.01	0.06	1.11	100.92
40211018 CRD		1	39.5	3.65	306	3.9	0.10	0.011	0.022	0.001	0.25	1.4	<0.01	0.06	1.17	99.53
40211019		1	36.5	3.31	284	2.3	0.07	0.011	0.023	<0.001	0.14	1.2	<0.01	0.13	1.12	100.14
40211020		<1	15.2	1.49	88	0.9	0.01	0.010	0.014	0.001	<0.05	0.4	0.01	0.03	1.02	99.23
40211021		1	35.1	3.03	273	2.1	0.07	0.010	0.022	<0.001	0.13	1.2	<0.01	0.18	0.91	99.52
40211022		1	34.7	3.08	269	1.7	0.06	0.007	0.022	0.001	0.13	1.4	0.01	0.21	0.87	100.34
40211023		1	34.6	3.22	269	1.9	0.07	0.007	0.023	<0.001	0.15	1.2	<0.01	0.22	1.02	99.85
40211024		1	36.5	3.23	281	2.9	0.07	0.012	0.022	<0.001	0.17	1.1	<0.01	0.13	1.11	99.03
40211025		1	36.6	3.22	282	6.4	0.09	0.007	0.018	0.001	0.20	1.3	<0.01	0.09	1.11	99.97
40211026		1	37.3	3.32	296	2.0	0.06	0.007	0.022	<0.001	0.10	1.2	<0.01	0.24	0.67	99.20
40211027		1	37.7	3.38	292	3.3	0.08	0.007	0.019	<0.001	0.17	1.3	0.01	0.15	1.10	99.05
40211028		1	37.6	3.52	293	1.9	0.05	0.006	0.021	0.001	0.10	1.5	<0.01	0.25	0.73	100.14
40211029		1	37.0	3.37	286	1.9	0.05	0.008	0.027	<0.001	0.09	1.3	0.01	0.34	0.42	98.96
40211030		1	18.6	1.87	114	4.6	0.13	0.013	0.031	0.003	0.32	1.4	0.06	0.43	2.12	99.52
40211031		1	36.2	3.19	279	2.0	0.04	0.009	0.025	0.001	0.10	1.2	<0.01	0.33	0.85	99.90
40211032		1	36.6	3.39	288	2.2	0.05	0.007	0.026	0.001	0.17	1.4	0.01	0.38	1.03	99.61
40211033		2	25.2	2.81	151	20.0	0.15	0.010	0.048	0.004	0.19	1.5	0.05	0.27	3.80	101.92
40211034		2	25.3	2.84	149	23.1	0.16	0.009	0.042	0.005	0.21	1.4	0.05	0.39	3.96	100.57
40211035		1	36.4	3.18	280	10.5	0.06	0.019	0.054	0.001	0.72	1.5	0.01	0.25	2.18	98.96
40211036		2	25.5	2.78	153	15.5	0.20	0.009	0.039	0.003	0.39	1.0	0.04	0.68	3.67	100.96
40211037		2	25.1	2.78	143	20.9	0.28	0.013	0.047	0.005	1.12	1.2	0.03	0.65	4.69	100.24



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
40097083		<0.5	<5	<0.5	65	119	10	<1	378	<2	15	<10	86	0.001	0.005	0.006
40210975		<0.5	<5	<0.5	41	301	30	1	40	4	24	<10	125	<0.001	<0.005	0.010
40210976		<0.5	<5	<0.5	36	211	30	1	34	5	22	<10	124	0.001	<0.005	0.008
40210977		<0.5	5	<0.5	39	279	40	<1	40	6	23	<10	115	0.001	<0.005	0.010
40210978		<0.5	8	<0.5	41	272	40	<1	54	5	23	<10	128	<0.001	0.007	0.017
40210979		<0.5	8	<0.5	41	299	40	<1	56	5	23	<10	138	0.001	0.006	0.020
40210980		<0.5	5	<0.5	41	270	40	<1	53	8	22	<10	145	0.003	0.005	0.019
40210981		<0.5	9	<0.5	44	316	40	<1	68	7	26	<10	169	0.005	0.005	0.015
40210993		<0.5	20	<0.5	38	302	70	2	75	21	26	<10	177	0.002	<0.005	0.007
40211008		<0.5	14	<0.5	25	91	70	8	95	19	22	<10	236	<0.001	<0.005	0.002
40211009		<0.5	13	<0.5	24	89	80	7	90	16	22	<10	164	0.001	<0.005	0.002
40211010		<0.5	11	<0.5	26	110	80	6	94	16	23	<10	183	0.001	<0.005	0.002
40211011		<0.5	8	<0.5	52	276	40	<1	71	2	27	<10	161	<0.001	<0.005	0.010
40211012		<0.5	<5	<0.5	52	297	30	<1	75	6	27	<10	154	0.001	<0.005	0.011
40211013		<0.5	8	<0.5	50	279	30	<1	74	4	26	<10	138	<0.001	<0.005	0.011
40211014		<0.5	<5	<0.5	52	283	30	<1	75	5	26	<10	143	0.001	<0.005	0.011
40211015		<0.5	<5	1.2	55	279	20	1	75	5	26	10	150	0.002	<0.005	0.010
40211016		<0.5	<5	1.0	54	293	20	1	70	2	27	10	147	0.011	<0.005	0.011
40211017		<0.5	6	1.1	58	283	20	1	81	3	27	10	144	<0.001	<0.005	0.010
40211018		<0.5	7	1.4	53	308	20	1	58	5	29	10	149	0.001	<0.005	0.011
40211018 CRD		<0.5	7	1.1	50	306	20	1	56	<2	29	<10	148	0.001	<0.005	0.011
40211019		<0.5	<5	1.1	56	292	20	1	79	<2	26	10	147	0.003	<0.005	0.010
40211020		<0.5	<5	0.6	55	116	10	<1	286	<2	13	<10	78	0.001	0.005	0.006
40211021		<0.5	<5	1.1	59	300	20	1	88	7	27	10	149	0.005	<0.005	0.011
40211022		<0.5	<5	1.1	61	285	20	1	98	5	27	<10	153	0.004	<0.005	0.011
40211023		<0.5	<5	1.2	62	276	20	1	99	5	27	<10	162	0.003	<0.005	0.011
40211024		<0.5	<5	1.4	60	318	20	1	88	<2	29	<10	167	0.003	<0.005	0.010
40211025		<0.5	9	1.0	60	312	20	1	87	2	29	<10	173	0.002	<0.005	0.011
40211026		<0.5	<5	1.0	57	298	20	1	79	3	28	<10	175	0.004	<0.005	0.010
40211027		<0.5	7	1.1	58	295	20	<1	78	6	27	10	154	0.003	<0.005	0.011
40211028		<0.5	<5	1.2	58	288	20	<1	79	5	27	<10	168	0.003	<0.005	0.011
40211029		<0.5	<5	1.0	55	280	20	<1	73	7	26	10	175	0.003	<0.005	0.011
40211030		<0.5	8	0.8	68	1150	40	1	721	3	19	<10	115	0.021	0.039	0.213
40211031		<0.5	<5	1.4	59	284	20	<1	91	6	27	<10	220	0.003	<0.005	0.011
40211032		<0.5	<5	1.2	57	282	20	1	80	13	27	<10	201	0.003	<0.005	0.010
40211033		<0.5	25	0.7	28	105	80	7	100	12	24	<10	255	0.001	<0.005	0.002
40211034		<0.5	24	0.8	30	107	70	8	100	9	24	<10	279	0.003	<0.005	0.003
40211035		0.8	16	1.8	59	563	60	1	79	27	28	10	371	0.004	<0.005	0.010
40211036		<0.5	11	0.7	25	90	80	6	92	22	24	<10	207	0.002	<0.005	0.002
40211037		<0.5	21	0.8	26	93	50	6	91	18	23	10	225	0.002	<0.005	0.002



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40211038		5.34			60.6	18.00	8.72	0.38	1.73	3.02	3.72	0.03	0.81	0.05	0.11	0.01
40211038 CRD		<0.02			59.3	17.50	8.47	0.37	1.69	2.96	3.61	0.03	0.79	0.05	0.11	0.01
40211070		1.57			45.7	17.15	11.10	9.33	2.11	10.60	0.35	0.03	1.06	0.14	0.11	0.03
40211071		6.88			69.0	14.40	6.42	0.59	2.34	2.09	2.58	0.02	0.62	0.03	0.11	0.01
40211072		2.83			47.5	15.75	12.85	9.33	2.34	7.44	0.54	0.03	1.58	0.18	0.16	0.03
40211073		6.49			46.7	15.50	13.10	9.22	2.24	7.62	0.58	0.03	1.58	0.18	0.15	0.03
40211074		6.23			46.6	15.90	12.55	8.63	2.11	8.04	0.84	0.03	1.44	0.18	0.15	0.04
40211075		6.19			46.8	15.70	12.65	8.85	2.17	7.69	0.77	0.03	1.51	0.18	0.14	0.04
40211076		5.76			46.5	15.60	12.90	9.29	2.27	7.35	0.48	0.03	1.59	0.18	0.15	0.03
40211077		4.20	78.1	85.7	46.2	15.75	12.95	7.67	2.30	7.71	1.48	0.03	1.70	0.18	0.17	0.06
40211078		6.85			51.3	15.40	11.90	6.31	2.30	6.14	2.13	0.03	1.66	0.15	0.19	0.06
40211079		4.68			48.2	12.65	16.75	7.88	2.88	4.26	0.97	<0.01	3.55	0.19	0.41	0.06
40211080		0.17			44.9	18.40	12.30	9.56	2.11	7.57	1.07	0.36	1.34	0.15	0.16	0.05
40211081		6.08			48.8	12.80	17.20	7.56	3.02	4.26	1.16	<0.01	3.70	0.20	0.41	0.06
40211082		6.23			49.1	12.85	17.35	7.56	3.02	4.22	1.21	<0.01	3.68	0.20	0.42	0.06
40211083		6.72			49.2	12.90	17.50	7.58	3.06	4.27	1.29	<0.01	3.70	0.20	0.42	0.06
40211084		6.71			48.0	12.70	17.05	7.25	2.99	4.23	1.48	<0.01	3.59	0.19	0.40	0.06
40211085		6.16			48.5	12.70	17.05	7.57	2.99	4.21	1.22	<0.01	3.60	0.20	0.40	0.06
40211086		6.78			48.4	12.65	17.20	7.37	3.02	4.15	1.28	<0.01	3.64	0.20	0.41	0.06
40211087		5.28			48.1	12.65	17.10	7.45	2.94	4.25	1.10	<0.01	3.64	0.19	0.41	0.06
40211088		7.13			69.5	13.60	5.76	0.90	2.82	1.94	2.11	0.02	0.60	0.03	0.11	0.02
40211089		2.51			69.2	14.45	6.34	0.97	2.53	2.02	2.53	0.02	0.63	0.03	0.10	0.02
40211089 CRD		<0.02			67.9	14.20	6.31	0.96	2.49	2.00	2.51	0.02	0.62	0.03	0.10	0.02
40211090		2.77			69.5	14.25	6.30	0.63	2.57	2.01	2.48	0.02	0.62	0.03	0.10	0.01
40211091		5.58			66.6	14.95	6.94	0.52	2.30	2.24	2.66	0.02	0.66	0.04	0.11	0.01
40211092		6.03			63.7	15.75	7.17	0.60	1.99	2.48	3.15	0.02	0.70	0.04	0.12	0.01



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211038		0.06	0.61	1.23	555	67.7	220	13.45	4.52	2.83	1.49	25.0	5.35	<5	3.9	0.97
40211038 CRD		0.06	0.65	1.29	542	65.4	190	13.15	4.52	2.82	1.43	23.9	5.00	<5	4.1	0.95
40211070		0.01	0.01	0.03	121.0	17.7	220	1.30	2.47	1.52	1.03	17.7	2.60	<5	1.9	0.55
40211071		0.05	0.16	0.03	466	55.7	160	7.58	3.39	1.98	1.13	17.7	4.25	<5	4.3	0.70
40211072		0.02	0.03	0.07	165.0	30.1	230	3.76	4.42	2.44	1.44	20.2	4.26	<5	2.9	0.87
40211073		0.03	0.02	0.06	241	23.9	220	4.41	4.55	2.37	1.31	20.2	4.27	<5	3.0	0.86
40211074		0.05	0.03	0.05	435	22.4	220	4.35	3.99	2.26	1.24	19.8	4.04	<5	2.7	0.81
40211075		0.04	0.03	0.06	334	23.7	230	4.82	4.38	2.44	1.36	20.1	4.40	<5	2.7	0.91
40211076		0.02	0.02	0.06	180.0	24.7	230	3.70	4.43	2.37	1.48	20.6	4.41	<5	2.9	0.89
40211077		0.05	0.03	0.13	414	28.2	230	7.01	4.93	2.58	1.47	20.9	4.88	<5	3.2	0.97
40211078		0.10	0.04	0.09	869	41.9	200	7.02	4.79	2.61	1.61	20.9	5.33	<5	3.8	1.04
40211079		0.04	0.05	0.06	315	70.6	20	4.40	7.02	3.39	2.83	24.4	9.06	<5	6.4	1.43
40211080		0.04	0.04	0.31	336	27.0	2610	2.53	3.48	1.96	1.29	20.5	3.84	<5	2.6	0.75
40211081		0.04	0.04	0.03	387	73.3	30	5.53	7.52	3.83	3.00	25.7	9.18	<5	7.0	1.51
40211082		0.04	0.03	0.02	350	73.1	20	6.60	7.55	3.76	3.13	25.2	9.33	<5	6.8	1.44
40211083		0.04	0.04	0.03	324	70.7	20	8.15	7.34	3.66	2.86	25.0	8.76	<5	6.7	1.45
40211084		0.04	0.04	0.03	342	71.2	30	8.48	7.31	3.46	2.99	25.5	8.90	<5	6.5	1.45
40211085		0.04	0.07	0.04	326	70.7	30	6.89	7.26	3.75	2.82	24.6	9.11	<5	6.8	1.49
40211086		0.04	0.05	0.03	375	74.2	20	6.46	7.49	3.73	3.03	26.1	9.46	<5	7.0	1.45
40211087		0.03	0.11	0.05	300	71.9	30	7.10	7.45	3.71	3.02	25.1	9.24	<5	6.8	1.43
40211088		0.05	0.14	0.04	453	52.2	160	4.56	3.29	1.90	1.01	17.2	3.84	<5	4.6	0.66
40211089		0.06	0.21	0.42	503	60.1	170	4.68	3.90	2.34	1.16	18.7	4.25	<5	4.8	0.82
40211089 CRD		0.06	0.23	0.46	486	58.8	170	4.49	3.63	2.12	1.07	18.7	4.21	<5	4.7	0.76
40211090		0.06	0.14	0.45	493	58.1	170	4.52	3.55	2.10	1.13	18.6	4.27	<5	4.5	0.75
40211091		0.05	0.33	0.37	455	60.1	170	7.93	3.84	2.16	1.08	20.1	4.27	<5	4.6	0.79
40211092		0.06	0.51	0.46	505	65.3	180	10.95	4.31	2.53	1.26	21.6	5.01	<5	4.3	0.89

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40211038		33.6	0.43	11.8	33.2	8.50	181.5	6.53	2	93.3	0.8	0.80	8.86	0.44	7.14	183
40211038 CRD		32.3	0.42	11.3	32.6	8.34	177.0	6.91	2	92.1	0.8	0.78	8.69	0.45	7.07	176
40211070		8.0	0.21	5.6	10.2	2.34	10.1	2.57	1	273	0.3	0.44	0.81	0.20	0.22	142
40211071		24.9	0.30	8.9	24.7	6.46	117.5	4.92	6	101.0	0.6	0.58	7.26	0.32	2.95	107
40211072		11.2	0.33	9.0	15.9	3.53	18.3	4.33	6	268	0.5	0.72	1.01	0.35	0.26	263
40211073		10.2	0.31	8.8	14.9	3.27	24.2	3.97	1	295	0.5	0.69	0.98	0.36	0.28	264
40211074		9.8	0.29	8.0	14.0	3.22	34.7	3.71	1	370	0.5	0.67	0.83	0.35	0.23	241
40211075		10.0	0.31	8.5	14.7	3.28	32.1	4.14	1	355	0.5	0.69	1.06	0.33	0.30	257
40211076		10.7	0.34	8.9	15.9	3.44	18.6	4.25	1	276	0.5	0.76	0.99	0.35	0.28	264
40211077		13.3	0.36	9.0	16.8	3.67	45.3	4.42	1	550	0.5	0.85	1.09	0.40	0.27	274
40211078		19.2	0.40	10.8	23.1	5.40	72.1	5.35	1	526	0.6	0.85	2.95	0.42	1.12	258
40211079		30.6	0.43	24.0	40.1	9.13	36.7	9.20	2	463	1.6	1.28	3.97	0.51	1.21	444
40211080		12.4	0.28	7.4	15.2	3.55	35.9	3.50	2	418	0.4	0.65	1.25	0.29	0.31	187
40211081		31.8	0.46	25.5	41.2	9.55	42.9	9.59	2	515	1.7	1.45	4.07	0.52	1.27	469
40211082		31.8	0.47	25.6	41.1	9.48	45.5	9.17	2	517	1.6	1.39	4.14	0.58	1.20	461
40211083		30.7	0.46	25.0	39.7	9.25	50.5	9.32	2	539	1.6	1.36	3.94	0.50	1.18	467
40211084		31.0	0.47	24.9	39.9	9.25	57.3	8.86	2	533	1.6	1.30	3.97	0.51	1.23	469
40211085		30.9	0.45	24.3	40.2	9.24	47.1	9.02	2	508	1.6	1.26	3.89	0.49	1.21	447
40211086		31.9	0.48	25.7	41.2	9.54	51.6	9.36	2	535	1.6	1.35	4.21	0.57	1.29	469
40211087		31.2	0.43	25.1	40.5	9.32	47.6	9.31	2	486	1.6	1.36	4.09	0.48	1.23	464
40211088		24.8	0.32	8.3	24.4	6.06	79.0	4.60	2	178.5	0.5	0.59	6.95	0.30	2.91	101
40211089		29.1	0.36	8.7	26.2	6.95	111.0	5.11	2	138.0	0.6	0.68	7.84	0.37	5.33	125
40211089 CRD		28.2	0.33	8.6	25.7	6.76	108.0	4.99	2	133.0	0.6	0.63	7.42	0.35	5.05	119
40211090		27.9	0.34	8.5	26.3	6.81	106.5	5.00	2	137.0	0.6	0.70	7.31	0.33	4.99	121
40211091		28.8	0.34	9.3	27.5	7.12	128.0	5.47	2	116.0	0.6	0.66	7.58	0.35	4.87	131
40211092		31.8	0.39	10.1	30.3	7.82	156.5	5.64	2	98.2	0.6	0.74	8.12	0.39	6.09	142



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40211038		2	25.5	2.85	155	19.5	0.27	0.009	0.039	0.004	0.87	1.1	0.05	0.66	4.73	101.97
40211038 CRD		2	24.3	2.82	155	19.8	0.27	0.012	0.038	0.004	0.91	1.2	0.06	0.68	4.73	99.68
40211070		<1	13.7	1.52	77	0.6	0.02	0.006	0.014	0.001	<0.05	0.5	<0.01	0.04	0.78	98.50
40211071		1	18.5	2.23	176	7.0	0.16	0.023	0.031	<0.001	0.51	0.7	0.02	0.12	3.10	101.36
40211072		<1	22.8	2.35	117	0.4	0.01	0.011	0.018	0.001	<0.05	0.9	0.01	0.72	1.58	99.33
40211073		1	22.7	2.26	114	0.5	0.01	0.012	0.017	0.001	0.06	0.9	0.01	0.40	1.77	98.73
40211074		<1	21.2	2.14	107	0.3	0.01	0.017	0.017	0.001	0.07	0.8	0.01	1.14	3.28	99.84
40211075		<1	22.0	2.25	111	0.4	0.01	0.013	0.017	0.001	<0.05	0.8	<0.01	0.81	2.57	99.14
40211076		1	23.5	2.24	116	0.4	0.01	0.013	0.017	<0.001	0.06	1.0	<0.01	1.10	2.16	98.55
40211077		1	24.8	2.55	122	0.6	0.01	0.030	0.039	0.001	0.17	1.1	0.01	2.07	4.83	101.08
40211078		1	25.2	2.49	147	1.7	0.02	0.032	0.036	0.001	0.33	0.9	0.01	1.01	4.14	101.81
40211079		1	34.3	3.04	257	2.2	0.04	0.016	0.024	0.001	0.44	1.4	<0.01	0.22	1.45	99.29
40211080		1	18.9	1.86	107	5.6	0.13	0.014	0.030	0.002	0.44	1.4	0.06	0.43	2.28	100.29
40211081		1	35.9	3.18	270	2.1	0.04	0.011	0.023	<0.001	0.16	1.4	<0.01	0.22	1.07	100.28
40211082		1	35.9	3.33	272	1.9	0.04	0.007	0.023	<0.001	0.09	1.2	0.01	0.27	0.85	100.56
40211083		2	34.9	3.00	260	1.9	0.05	0.006	0.023	0.001	0.08	1.2	<0.01	0.39	0.80	101.02
40211084		1	35.0	3.11	262	1.8	0.04	0.008	0.023	<0.001	0.10	1.2	<0.01	0.43	0.96	98.94
40211085		1	34.8	3.01	263	2.0	0.04	<0.005	0.026	<0.001	0.09	1.1	<0.01	0.35	1.05	99.59
40211086		1	36.3	3.29	273	1.9	0.04	0.010	0.023	<0.001	0.09	1.1	<0.01	0.32	0.65	99.07
40211087		1	35.6	3.12	266	2.0	0.05	0.012	0.032	0.001	0.14	1.4	0.01	0.41	1.36	99.28
40211088		1	17.7	1.95	179	5.1	0.05	0.006	0.022	<0.001	0.40	0.7	0.01	0.15	2.78	100.24
40211089		2	20.2	2.37	186	9.8	0.17	0.011	0.028	0.002	0.27	0.8	0.03	0.25	2.95	101.85
40211089 CRD		2	19.8	2.30	183	10.6	0.17	0.014	0.026	0.002	0.26	0.8	0.03	0.25	2.86	100.08
40211090		2	19.7	2.22	181	9.5	0.15	0.009	0.023	0.002	0.26	0.8	0.02	0.21	2.71	101.29
40211091		2	20.5	2.38	177	13.3	0.20	0.015	0.036	0.001	0.54	0.8	0.02	0.32	3.34	100.44
40211092		2	22.8	2.47	165	14.5	0.24	0.016	0.035	0.002	0.88	0.9	0.04	0.32	4.06	99.85



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132941

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	Au	Pt	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
40211038		<0.5	19	0.5	26	97	50	6	92	18	23	<10	204	0.001	<0.005	0.002
40211038 CRD		<0.5	22	0.8	25	95	50	7	93	17	23	<10	207	0.002	<0.005	0.002
40211070		<0.5	<5	0.6	69	120	10	<1	391	<2	17	<10	92	0.001	<0.005	0.006
40211071		<0.5	8	<0.5	17	35	60	<1	60	12	16	10	107	0.001	<0.005	0.001
40211072		<0.5	<5	1.0	59	142	30	<1	187	<2	28	<10	103	0.001	<0.005	0.004
40211073		<0.5	<5	0.8	60	143	30	<1	191	<2	28	<10	105	0.001	<0.005	0.004
40211074		<0.5	<5	0.6	59	129	40	<1	206	<2	26	10	98	<0.001	<0.005	0.003
40211075		<0.5	<5	1.0	58	133	40	<1	191	<2	27	<10	99	<0.001	<0.005	0.004
40211076		<0.5	<5	0.9	59	143	30	<1	187	<2	29	10	106	0.001	<0.005	0.004
40211077		<0.5	<5	0.7	64	151	120	<1	199	<2	31	10	109	0.001	<0.005	0.004
40211078		<0.5	<5	0.7	54	136	90	<1	152	<2	28	<10	115	0.001	<0.005	0.004
40211079		<0.5	<5	1.2	56	275	20	<1	69	6	27	<10	162	0.003	<0.005	0.009
40211080		<0.5	<5	1.1	70	1180	30	2	739	5	17	<10	117	0.023	0.047	0.230
40211081		<0.5	<5	1.5	56	277	20	1	71	<2	27	<10	160	0.003	<0.005	0.010
40211082		<0.5	<5	1.3	56	276	10	<1	71	5	27	<10	158	0.003	<0.005	0.010
40211083		<0.5	<5	1.3	55	283	10	<1	73	5	27	<10	161	0.003	<0.005	0.010
40211084		<0.5	<5	1.2	57	272	10	<1	76	2	26	<10	159	0.003	<0.005	0.010
40211085		<0.5	6	1.2	57	281	10	<1	76	7	27	<10	160	0.003	<0.005	0.010
40211086		<0.5	<5	1.1	56	278	10	<1	72	<2	27	<10	160	0.003	<0.005	0.010
40211087		<0.5	<5	1.2	57	272	10	1	77	2	26	<10	158	0.003	<0.005	0.010
40211088		<0.5	6	<0.5	16	28	60	<1	52	8	15	<10	55	<0.001	<0.005	<0.001
40211089		<0.5	10	<0.5	18	77	60	4	59	8	15	<10	67	0.002	<0.005	0.002
40211089 CRD		<0.5	13	<0.5	19	79	60	5	61	9	16	<10	65	0.002	<0.005	0.001
40211090		<0.5	11	<0.5	19	70	60	5	60	6	16	<10	56	0.001	<0.005	0.001
40211091		<0.5	17	0.5	20	78	60	4	68	19	18	<10	132	0.002	<0.005	0.001
40211092		<0.5	15	0.6	21	87	60	6	75	19	19	<10	141	0.002	<0.005	0.002

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ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15132941

	CERTIFICATE COMMENTS												
	LABORATORY ADDRESSES												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG-04</td> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> </tr> <tr> <td>LOG-21d</td> <td>LOG-23</td> <td>PUL-32</td> <td>PUL-32d</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>SPL-21d</td> <td>WEI-21</td> </tr> </table>	BAG-04	CRU-31	CRU-QC	LOG-21	LOG-21d	LOG-23	PUL-32	PUL-32d	PUL-QC	SPL-21	SPL-21d	WEI-21
BAG-04	CRU-31	CRU-QC	LOG-21										
LOG-21d	LOG-23	PUL-32	PUL-32d										
PUL-QC	SPL-21	SPL-21d	WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">C-IR07</td> <td style="width: 33%;">ME-4ACD81</td> <td style="width: 33%;">ME-ICP06</td> <td style="width: 33%;">ME-MS42</td> </tr> <tr> <td>ME-MS81</td> <td>OA-GRA05</td> <td>PGM-ICP24</td> <td>S-IR08</td> </tr> <tr> <td>TOT-ICP06</td> <td></td> <td></td> <td></td> </tr> </table>	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08	TOT-ICP06			
C-IR07	ME-4ACD81	ME-ICP06	ME-MS42										
ME-MS81	OA-GRA05	PGM-ICP24	S-IR08										
TOT-ICP06													



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **RIO TINTO EXPLORATION CANADA INC.**
354-200 GRANVILLE STREET
VANCOUVER BC V6C 1S4

Page: 1
 Total # Pages: 4 (A - E)
 Plus Appendix Pages
 Finalized Date: 6-OCT-2015
 Account: KAV

CERTIFICATE TB15140692

Project: EB80002684
 P.O. No.: 3101202290
 This report is for 112 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-SEP-2015.

The following have access to data associated with this certificate:

RTXAMRNA ASSAY RESULTS
 BRIAN GOLDNER
 JAY HAMMITT

SUE DRIEBERG
 JENNY GOLDNER

JENNY GOLDNER
 BRIAN GOLDNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-04	Store in air evacuated bags
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-32d	Pulverize Split -Dup 85% <75um

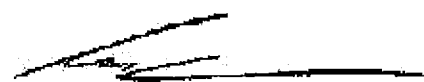
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
PGM-ICP24	Pt, Pd, Au 50g FA ICP	ICP-AES

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass75um %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 Na2O %	ME-ICP06 MgO %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %
40097086		1.10		94.3	45.7	19.10	10.15	10.05	2.39	8.61	0.36	0.02	1.08	0.12	0.13	0.04
40211093		7.76	80.7		68.4	13.60	6.02	0.87	2.48	1.97	2.40	0.02	0.59	0.03	0.11	0.01
40211094		4.64			49.5	12.45	15.40	6.95	2.68	3.88	0.98	<0.01	3.35	0.18	0.38	0.06
40211095		6.25			66.9	14.50	6.50	0.74	2.28	2.11	2.61	0.02	0.65	0.03	0.10	0.01
40211096		12.11			70.5	13.55	6.30	0.68	2.58	1.93	2.20	0.03	0.62	0.03	0.11	0.01
40211097		12.00			68.6	13.45	6.07	1.20	2.44	1.87	2.28	0.03	0.64	0.03	0.11	0.01
40211098		12.08			69.2	13.70	6.45	1.14	2.34	2.00	2.40	0.03	0.63	0.03	0.11	0.01
40211099		11.84			71.7	12.75	6.06	1.06	2.64	1.86	1.94	0.03	0.58	0.03	0.11	0.02
40211100		1.31			45.8	18.00	10.50	10.15	2.25	9.94	0.37	0.03	0.95	0.13	0.10	0.03
40211101		11.53			66.3	15.15	6.83	0.62	2.26	2.20	2.75	0.03	0.73	0.03	0.12	0.01
40211102		11.73			68.2	13.90	6.44	0.77	2.43	2.05	2.27	0.02	0.64	0.03	0.11	0.01
40211103		12.12			65.8	15.50	6.90	0.59	2.22	2.25	2.80	0.03	0.73	0.03	0.11	0.01
40211104		11.83			65.6	15.10	6.78	0.67	2.25	2.15	2.75	0.03	0.71	0.03	0.11	0.01
40211105		12.04			68.4	15.00	6.64	0.74	2.36	2.11	2.69	0.03	0.70	0.03	0.11	0.01
40211106		11.41			64.6	15.70	7.34	0.67	2.05	2.30	3.13	0.03	0.73	0.03	0.11	0.01
40211107		12.24			66.2	14.65	6.91	1.45	2.25	2.24	2.49	0.03	0.70	0.04	0.11	0.01
40211108		5.94			64.0	16.70	7.44	0.46	2.00	2.54	3.29	0.03	0.78	0.03	0.11	0.02
40211109		5.61			60.4	17.25	8.54	0.43	1.82	2.82	3.46	0.03	0.81	0.03	0.11	0.01
40211110		0.17			44.6	18.40	12.10	9.53	2.14	7.46	1.05	0.35	1.34	0.14	0.16	0.05
40211111		7.09			50.3	14.90	12.95	7.18	3.61	2.72	1.45	<0.01	2.73	0.15	0.41	0.07
40211111 CRD		<0.02			50.2	14.90	12.90	7.16	3.60	2.71	1.44	<0.01	2.73	0.15	0.41	0.07
40211112		6.19			51.2	16.40	11.55	7.46	4.01	2.37	1.54	<0.01	2.43	0.14	0.37	0.08
40211113		6.17			51.1	17.85	10.65	8.22	4.16	2.15	1.17	<0.01	2.26	0.12	0.33	0.08
40211114		6.15			51.1	18.30	9.91	8.29	4.14	2.02	1.07	<0.01	2.10	0.12	0.30	0.08
40211115		6.16			51.0	18.60	9.49	8.50	4.12	1.92	0.96	<0.01	1.99	0.11	0.29	0.08
40211116		6.50			51.1	18.10	9.93	8.27	4.16	2.06	1.22	<0.01	2.09	0.12	0.30	0.08
40211117		6.54			50.9	17.95	10.05	8.19	3.97	2.07	1.25	<0.01	2.10	0.12	0.31	0.08
40211118		6.56			52.1	18.35	10.35	8.52	4.12	2.07	1.02	<0.01	2.14	0.12	0.31	0.08
40211119		2.90			51.0	18.10	10.05	8.46	4.06	2.01	0.94	<0.01	2.10	0.12	0.30	0.07
40211120		3.12			51.2	18.15	10.15	8.49	4.06	2.00	0.93	<0.01	2.10	0.12	0.30	0.07
40211121		6.29			51.5	18.15	10.20	8.48	4.11	2.04	1.12	<0.01	2.11	0.12	0.32	0.07
40211122		4.42			50.9	17.00	11.20	8.23	3.92	2.26	1.09	<0.01	2.32	0.13	0.34	0.07
40211123		8.53			51.1	11.65	17.25	7.28	3.22	2.64	1.29	<0.01	3.03	0.20	0.63	0.05
40211124		6.37			49.6	10.95	17.00	7.10	2.97	2.11	1.52	<0.01	2.62	0.19	0.77	0.05
40211125		6.11			51.5	11.45	16.85	6.60	3.24	2.32	1.60	<0.01	2.65	0.20	0.70	0.04
40211126		6.63			51.2	11.55	17.50	6.88	3.25	2.61	1.50	<0.01	2.84	0.20	0.65	0.04
40211127		6.42			51.7	11.80	17.45	7.29	3.31	2.90	1.45	<0.01	2.98	0.20	0.60	0.05
40211128		8.41			49.6	11.70	17.45	7.46	3.22	3.19	1.22	<0.01	3.81	0.20	0.53	0.05
40211129		4.88			51.4	14.65	14.45	7.84	3.51	3.05	1.16	<0.01	2.91	0.16	0.42	0.06
40211130		1.16			46.1	18.40	10.40	10.40	2.20	9.14	0.32	0.03	0.98	0.12	0.11	0.03



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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40097086		0.01	0.02	0.04	132.5	21.1	120	1.16	2.87	1.83	1.02	17.8	2.94	<5	1.9	0.58
40211093		0.05	0.48	0.25	455	53.8	160	6.66	3.53	2.15	1.04	16.7	3.85	<5	4.9	0.73
40211094		0.03	0.40	0.10	299	66.8	30	12.85	6.96	3.53	2.59	23.2	7.95	<5	6.0	1.24
40211095		0.05	0.27	0.19	455	55.2	160	7.61	3.68	2.21	0.98	17.4	4.21	<5	4.3	0.69
40211096		0.04	0.19	0.07	384	49.1	170	6.06	3.45	1.93	1.05	15.5	3.90	<5	4.4	0.66
40211097		0.04	0.34	0.10	399	53.7	170	6.10	3.50	1.91	1.05	15.5	3.88	<5	5.3	0.65
40211098		0.04	0.47	0.28	399	52.5	180	6.62	3.61	2.18	1.04	16.0	4.07	<5	5.2	0.66
40211099		0.04	0.28	0.07	343	49.1	180	4.89	3.11	1.79	0.96	14.5	3.53	<5	5.0	0.63
40211100		0.01	0.02	0.04	120.0	17.9	230	1.32	2.69	1.74	0.91	17.8	2.68	<5	1.9	0.50
40211101		0.05	0.21	0.11	469	59.5	190	7.63	3.83	2.24	1.12	18.6	4.23	<5	4.9	0.75
40211102		0.05	0.25	0.14	426	52.7	170	5.80	3.49	2.16	1.15	16.5	4.23	<5	4.9	0.68
40211103		0.06	0.23	0.15	495	58.9	180	7.81	3.69	2.42	1.17	19.1	4.20	<5	4.5	0.70
40211104		0.05	0.17	0.23	478	59.0	170	6.95	3.92	2.17	1.10	18.9	4.35	<5	4.5	0.75
40211105		0.05	0.13	0.19	476	58.5	170	5.66	3.50	2.10	1.05	17.9	4.08	<5	4.7	0.74
40211106		0.06	0.14	0.60	527	61.4	180	6.88	3.84	2.36	1.18	19.6	4.65	<5	4.6	0.76
40211107		0.05	0.28	0.14	441	57.4	200	4.31	3.90	2.23	1.12	17.8	4.38	<5	4.6	0.69
40211108		0.07	0.05	0.41	581	60.8	190	5.53	4.21	2.45	1.22	20.4	4.85	<5	4.3	0.76
40211109		0.07	0.05	0.94	590	61.0	180	7.13	4.58	2.67	1.23	22.1	4.96	<5	4.0	0.85
40211110		0.04	0.04	0.36	345	26.6	2500	2.44	3.57	1.95	1.18	19.5	3.63	<5	2.7	0.76
40211111		0.05	0.25	0.10	463	67.7	10	3.18	7.18	3.71	2.44	23.2	8.17	<5	6.1	1.27
40211111 CRD		0.05	0.25	0.09	465	67.1	10	3.16	6.97	3.80	2.49	23.5	8.18	<5	6.0	1.34
40211112		0.04	0.07	0.05	372	60.3	10	2.42	6.14	3.14	2.18	24.0	7.37	<5	5.1	1.09
40211113		0.03	0.05	0.04	315	51.7	10	2.39	5.42	2.72	2.13	24.5	6.43	<5	4.8	0.96
40211114		0.03	0.07	0.05	291	47.5	10	2.69	4.49	2.46	2.02	24.3	6.00	<5	4.3	0.86
40211115		0.03	0.09	0.03	273	46.2	10	2.27	4.79	2.66	1.94	23.7	5.41	<5	4.0	0.85
40211116		0.06	0.08	0.04	555	47.7	10	2.86	4.84	2.62	2.13	23.8	5.84	<5	4.3	0.95
40211117		0.09	0.10	0.03	784	49.5	10	3.76	5.28	2.56	2.06	24.5	6.25	<5	4.3	0.91
40211118		0.03	0.05	0.04	312	49.6	10	3.12	5.09	2.73	2.07	23.8	6.00	<5	4.4	0.91
40211119		0.03	0.03	0.04	312	49.0	10	2.57	5.05	2.68	2.01	24.5	6.14	<5	4.2	0.94
40211120		0.03	0.03	0.04	312	49.2	10	2.51	4.95	2.65	2.08	23.9	6.01	<5	4.2	0.93
40211121		0.04	0.04	0.04	338	50.9	10	2.37	5.26	2.64	2.08	25.0	5.99	<5	4.5	0.98
40211122		0.04	0.03	0.05	335	56.6	10	2.54	5.75	2.98	2.26	23.9	6.63	<5	4.9	1.08
40211123		0.05	0.24	0.06	392	102.5	<10	6.31	11.05	5.81	3.49	25.7	12.45	<5	10.3	2.03
40211124		0.05	0.62	0.06	388	112.0	<10	8.25	11.70	6.02	3.79	25.0	14.05	<5	10.7	2.27
40211125		0.05	0.12	0.08	458	110.5	<10	4.73	11.90	6.07	3.63	26.1	13.60	<5	11.1	2.07
40211126		0.05	0.06	0.07	416	102.0	10	4.02	11.10	5.59	3.41	26.2	12.80	<5	10.0	2.09
40211127		0.05	0.03	0.06	427	98.4	<10	4.64	10.85	5.69	3.23	26.2	12.35	<5	10.1	2.03
40211128		0.05	0.04	0.07	388	84.4	<10	4.54	9.32	5.03	3.13	24.9	10.75	<5	8.9	1.71
40211129		0.04	0.03	0.05	351	65.4	10	3.02	7.02	3.70	2.53	24.2	7.83	<5	6.5	1.31
40211130		0.01	0.01	0.04	110.5	17.5	220	1.27	2.75	1.58	0.92	17.5	2.76	<5	2.0	0.51



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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
40097086		9.4	0.24	6.2	12.2	2.82	10.0	2.72	1	284	0.3	0.47	0.92	0.23	0.24	125
40211093		25.3	0.34	8.5	26.3	6.48	103.5	4.89	2	108.0	0.4	0.59	6.63	0.32	4.64	105
40211094		29.2	0.43	23.4	38.5	8.76	50.9	8.88	2	466	1.3	1.23	3.72	0.46	1.26	384
40211095		26.6	0.32	8.8	26.0	6.31	114.0	5.08	2	109.0	0.4	0.59	6.81	0.27	3.69	109
40211096		22.7	0.31	8.3	22.6	5.84	94.2	4.55	1	114.0	0.5	0.59	6.29	0.30	2.80	93
40211097		25.3	0.34	8.6	24.5	6.41	97.4	5.08	2	121.5	0.4	0.57	6.63	0.30	2.93	97
40211098		24.7	0.31	8.4	24.8	6.17	104.5	4.79	1	112.0	0.4	0.58	6.78	0.29	3.99	104
40211099		22.7	0.32	8.0	23.9	5.89	80.6	4.54	1	124.0	0.3	0.54	6.31	0.28	3.02	86
40211100		7.9	0.22	5.2	10.3	2.26	9.9	2.38	1	269	0.2	0.38	0.70	0.20	0.22	126
40211101		28.4	0.33	9.8	28.2	6.89	119.5	5.39	2	104.5	0.5	0.64	7.23	0.33	3.40	115
40211102		24.5	0.31	8.7	26.1	6.20	100.5	4.75	2	114.0	0.5	0.58	6.78	0.27	3.30	102
40211103		28.3	0.34	9.7	27.0	7.02	121.5	5.40	2	110.0	0.5	0.61	7.40	0.30	3.97	120
40211104		28.1	0.34	9.5	28.1	7.03	122.0	5.39	1	108.5	0.5	0.61	7.27	0.32	4.25	117
40211105		28.0	0.29	9.5	26.6	6.79	118.5	5.50	2	113.5	0.5	0.62	7.00	0.30	3.44	110
40211106		29.5	0.36	10.2	29.1	7.33	137.5	5.89	2	101.0	0.5	0.68	7.48	0.32	5.76	134
40211107		27.4	0.33	9.0	26.8	6.81	106.0	5.14	2	114.0	0.5	0.58	7.20	0.29	3.45	113
40211108		29.7	0.34	10.8	30.2	7.27	135.5	5.17	2	123.5	0.6	0.65	7.74	0.38	5.00	139
40211109		29.8	0.38	10.7	30.8	7.63	141.0	6.31	2	107.5	0.5	0.71	7.80	0.37	6.13	154
40211110		12.0	0.29	7.7	15.5	3.40	32.8	3.67	2	384	0.3	0.58	1.18	0.29	0.32	191
40211111		29.6	0.43	20.9	38.9	8.71	51.2	8.52	2	555	1.8	1.09	3.66	0.44	1.29	229
40211111 CRD		29.3	0.43	20.6	39.1	8.76	51.5	8.57	2	562	1.2	1.20	3.70	0.45	1.19	231
40211112		26.6	0.38	18.6	34.6	7.66	53.5	8.22	2	639	1.0	1.03	3.15	0.39	1.03	199
40211113		22.7	0.32	15.7	29.3	6.71	38.6	6.75	2	660	1.0	0.84	2.88	0.36	0.86	196
40211114		20.9	0.28	15.0	27.7	6.10	34.6	6.41	2	670	0.8	0.75	2.52	0.33	0.77	182
40211115		20.3	0.27	14.2	26.8	6.04	31.1	6.15	2	679	0.7	0.77	2.51	0.31	0.79	170
40211116		21.0	0.31	14.9	28.3	6.39	41.8	6.40	2	701	0.8	0.83	2.46	0.34	0.77	180
40211117		21.7	0.33	15.4	29.2	6.37	41.4	6.47	2	662	0.8	0.87	2.77	0.34	0.85	182
40211118		21.8	0.28	15.1	28.2	6.52	33.4	6.27	1	671	0.8	0.87	2.83	0.35	0.90	183
40211119		21.9	0.33	15.0	28.4	6.49	27.7	6.71	2	637	0.8	0.90	2.69	0.30	0.86	185
40211120		21.7	0.31	15.5	28.2	6.38	27.3	6.66	2	639	0.8	0.83	2.70	0.36	0.85	188
40211121		22.6	0.34	15.5	29.3	6.41	35.3	6.85	2	661	0.8	0.84	2.73	0.35	0.83	189
40211122		25.2	0.34	17.1	32.6	7.32	32.5	7.26	4	613	0.9	1.00	3.15	0.40	0.94	197
40211123		44.3	0.68	33.8	59.6	13.35	49.9	13.55	3	358	2.0	1.89	5.73	0.75	1.91	186
40211124		48.3	0.75	36.7	65.4	14.45	64.1	14.40	3	380	2.0	2.07	6.05	0.80	1.92	75
40211125		47.6	0.66	36.1	63.6	14.25	56.9	14.60	4	340	1.9	2.03	6.26	0.76	1.93	101
40211126		44.7	0.69	33.0	59.2	13.15	51.2	13.20	3	331	1.8	1.92	5.78	0.72	1.94	179
40211127		42.7	0.65	32.7	57.8	12.90	49.0	12.80	3	355	1.9	1.89	5.56	0.75	1.70	207
40211128		36.6	0.58	29.7	50.0	10.90	40.3	11.15	3	369	1.7	1.53	4.63	0.61	1.46	296
40211129		28.3	0.43	21.2	38.9	8.38	34.4	8.36	2	508	1.2	1.22	3.73	0.48	1.16	283
40211130		7.8	0.19	5.4	10.4	2.26	8.7	2.39	1	258	0.1	0.43	0.77	0.21	0.21	127



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06	
		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	LOI %	Total %
40097086		<1	14.9	1.57	83	0.5	0.02	0.008	0.013	0.001	0.05	0.5	0.01	0.02	0.85	98.61
40211093	1	18.8	2.09	180	9.5	0.17	0.033	0.033	0.002	0.89	0.8	0.02	0.30	3.40	99.95	
40211094	1	32.8	3.03	236	1.9	0.07	0.024	0.050	0.001	0.24	1.3	<0.01	0.52	2.75	98.59	
40211095	2	18.5	2.22	150	7.6	0.17	0.036	0.029	0.001	0.76	0.5	0.02	0.24	3.36	99.86	
40211096	1	17.1	2.09	172	4.7	0.14	0.034	0.026	<0.001	0.40	0.5	0.01	0.15	2.87	101.45	
40211097	1	17.6	2.13	196	6.3	0.14	0.036	0.026	<0.001	0.52	0.5	0.01	0.16	3.28	100.05	
40211098	2	18.4	2.01	193	8.8	0.17	0.035	0.028	0.002	1.03	0.6	0.02	0.30	3.36	101.44	
40211099	1	16.0	1.97	190	5.3	0.14	0.040	0.029	<0.001	0.79	0.6	0.01	0.13	2.93	101.75	
40211100	<1	13.3	1.48	71	0.3	0.02	0.016	0.015	0.001	0.06	0.4	<0.01	0.02	0.85	99.11	
40211101	2	19.6	2.37	185	6.2	0.17	0.021	0.027	<0.001	0.69	0.7	0.02	0.18	3.20	100.28	
40211102	72	18.3	2.16	175	6.4	0.13	0.022	0.029	<0.001	0.68	0.5	0.01	0.17	2.95	99.87	
40211103	2	19.8	2.30	174	6.6	0.19	0.027	0.030	0.001	0.64	0.6	0.01	0.21	3.26	100.29	
40211104	1	19.8	2.20	170	7.5	0.17	0.019	0.026	0.001	0.73	0.6	0.02	0.33	3.05	99.29	
40211105	2	19.1	2.18	171	7.2	0.15	0.020	0.029	0.001	0.61	0.5	0.02	0.35	3.02	101.89	
40211106	2	21.4	2.31	167	11.8	0.18	0.021	0.038	0.002	0.80	0.9	0.03	0.45	3.26	100.02	
40211107	2	19.4	2.32	175	6.0	0.10	0.015	0.037	0.001	0.26	0.7	0.01	0.18	3.54	100.67	
40211108	2	21.7	2.39	155	6.9	0.13	0.022	0.038	0.002	0.19	0.8	0.02	0.25	3.23	100.70	
40211109	2	23.3	2.42	142	14.5	0.14	0.025	0.044	0.002	0.34	0.9	0.06	0.32	3.65	99.43	
40211110	5	18.0	1.75	101	5.2	0.14	0.016	0.028	0.002	0.41	1.4	0.05	0.44	2.10	99.46	
40211111	1	33.1	3.14	231	1.9	0.05	0.021	0.022	0.001	0.16	1.0	<0.01	0.14	1.99	98.51	
40211111 CRD	1	33.3	3.23	227	2.0	0.05	0.013	0.023	0.001	0.14	1.0	<0.01	0.14	2.04	98.36	
40211112	1	29.1	2.65	202	0.7	0.04	0.017	0.011	0.001	0.08	0.8	0.01	0.07	1.49	99.08	
40211113	1	25.3	2.05	177	1.0	0.04	0.017	0.013	0.001	0.05	0.6	<0.01	0.07	1.26	99.38	
40211114	1	23.6	2.18	157	0.8	0.03	0.028	0.013	<0.001	0.06	0.9	0.01	0.05	1.25	98.71	
40211115	1	22.4	2.37	153	1.2	0.03	0.022	0.010	<0.001	0.10	1.1	0.01	0.04	1.31	98.40	
40211116	1	24.1	2.31	161	1.3	0.03	0.029	0.009	0.001	0.09	0.6	<0.01	0.05	1.35	98.84	
40211117	1	24.6	2.29	167	1.2	0.03	0.025	0.013	0.001	0.09	1.0	<0.01	0.07	1.24	98.32	
40211118	1	24.9	2.28	168	1.2	0.04	0.020	0.012	<0.001	0.08	0.9	<0.01	0.07	0.95	100.16	
40211119	1	24.2	2.11	170	1.2	0.05	0.016	0.011	0.001	0.07	0.9	<0.01	0.06	0.76	98.00	
40211120	1	24.4	2.24	170	1.0	0.04	0.017	0.012	<0.001	0.05	1.0	<0.01	0.05	0.86	98.46	
40211121	1	25.1	2.22	177	1.0	0.04	0.021	0.012	<0.001	0.07	0.9	0.01	0.06	1.03	99.29	
40211122	1	27.9	2.36	190	1.2	0.05	0.020	0.015	<0.001	0.06	1.0	<0.01	0.09	0.95	98.45	
40211123	1	52.1	4.68	381	2.3	0.06	0.028	0.039	0.001	0.15	1.8	0.01	0.20	1.85	100.24	
40211124	3	56.4	5.01	388	1.2	0.04	0.025	0.063	0.001	0.22	2.5	<0.01	0.32	3.26	98.19	
40211125	1	56.1	4.94	403	2.7	0.06	0.017	0.042	0.001	0.13	1.9	<0.01	0.22	0.95	98.15	
40211126	1	52.1	4.99	372	2.6	0.08	0.021	0.039	0.001	0.15	2.0	<0.01	0.22	0.61	98.88	
40211127	1	50.9	4.53	361	2.5	0.06	0.016	0.031	0.001	0.07	1.4	<0.01	0.17	0.92	100.70	
40211128	1	43.8	4.01	312	1.8	0.06	0.021	0.019	0.001	0.07	1.3	<0.01	0.12	0.86	99.34	
40211129	1	33.2	2.95	234	1.4	0.05	0.015	0.015	0.001	<0.05	1.0	<0.01	0.09	0.83	100.48	
40211130	1	13.2	1.31	75	0.4	0.01	0.005	0.015	0.001	<0.05	0.3	0.01	0.03	1.04	99.28	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm 0.5	As ppm 5	Cd ppm 0.5	Co ppm 1	Cu ppm 1	Li ppm 10	Mo ppm 1	Ni ppm 1	Pb ppm 2	Sc ppm 1	Tl ppm 10	Zn ppm 2	Au ppm 0.001	Pt ppm 0.005	Pd ppm 0.001
40097086		<0.5	<5	<0.5	55	100	10	<1	288	<2	13	<10	73	<0.001	<0.005	0.006
40211093		<0.5	12	<0.5	16	61	50	3	60	17	15	<10	119	0.001	<0.005	0.001
40211094		<0.5	<5	<0.5	49	229	20	<1	68	6	24	<10	142	0.003	<0.005	0.008
40211095		<0.5	9	<0.5	16	40	60	1	62	12	16	<10	98	0.001	<0.005	0.001
40211096		<0.5	<5	<0.5	16	29	50	<1	57	12	14	<10	102	<0.001	<0.005	<0.001
40211097		<0.5	6	<0.5	14	32	50	<1	57	12	15	<10	92	0.001	<0.005	0.001
40211098		<0.5	9	<0.5	16	46	50	1	63	18	15	<10	114	0.001	<0.005	0.001
40211099		<0.5	7	<0.5	14	28	50	<1	55	22	13	<10	115	0.001	<0.005	<0.001
40211100		<0.5	<5	<0.5	60	105	10	<1	342	3	16	<10	79	0.001	<0.005	0.007
40211101		<0.5	5	<0.5	18	39	50	<1	67	12	18	<10	111	0.001	<0.005	0.001
40211102		<0.5	7	<0.5	15	34	50	<1	62	13	15	<10	119	0.001	<0.005	0.001
40211103		<0.5	8	<0.5	19	45	50	<1	69	20	18	<10	124	0.001	<0.005	0.001
40211104		<0.5	7	<0.5	18	44	60	<1	71	12	18	<10	109	0.001	<0.005	0.001
40211105		<0.5	7	<0.5	16	39	70	<1	66	13	17	<10	105	0.001	<0.005	0.001
40211106		<0.5	13	<0.5	21	59	90	1	79	16	19	<10	140	0.001	<0.005	0.001
40211107		<0.5	8	<0.5	16	36	60	<1	67	14	17	<10	120	<0.001	<0.005	0.001
40211108		<0.5	12	<0.5	21	55	80	1	81	18	20	<10	172	<0.001	<0.005	0.001
40211109		<0.5	14	<0.5	24	77	100	2	92	19	22	<10	165	0.001	<0.005	0.002
40211110		0.5	<5	<0.5	65	1170	40	<1	723	10	19	<10	112	0.019	0.035	0.214
40211111		<0.5	5	<0.5	35	246	20	<1	31	7	22	<10	133	0.002	<0.005	0.006
40211111 CRD		<0.5	<5	<0.5	36	240	20	<1	31	6	21	<10	130	0.002	<0.005	0.006
40211112		<0.5	<5	<0.5	31	215	20	<1	24	5	18	<10	114	0.002	<0.005	0.006
40211113		<0.5	<5	<0.5	28	204	20	<1	25	2	15	<10	103	0.003	<0.005	0.008
40211114		<0.5	<5	0.5	26	196	10	<1	22	56	15	<10	187	0.002	<0.005	0.008
40211115		<0.5	<5	<0.5	24	184	10	<1	20	3	13	<10	102	0.001	<0.005	0.008
40211116		<0.5	<5	<0.5	27	198	10	<1	22	5	15	<10	115	0.001	<0.005	0.006
40211117		<0.5	<5	<0.5	25	195	10	<1	21	<2	14	<10	93	0.002	<0.005	0.008
40211118		<0.5	<5	<0.5	26	201	10	<1	21	2	15	10	101	0.002	<0.005	0.006
40211119		<0.5	<5	<0.5	26	193	10	<1	21	5	15	<10	93	0.002	<0.005	0.007
40211120		<0.5	<5	<0.5	26	196	10	<1	22	4	15	<10	95	0.002	<0.005	0.007
40211121		<0.5	<5	<0.5	26	196	10	<1	26	9	15	<10	99	0.002	<0.005	0.007
40211122		<0.5	<5	<0.5	29	208	10	<1	24	4	17	<10	105	0.002	<0.005	0.006
40211123		<0.5	<5	<0.5	38	355	20	<1	16	10	24	<10	175	0.003	0.005	0.003
40211124		<0.5	<5	<0.5	35	329	20	<1	6	8	22	<10	154	0.001	<0.005	<0.001
40211125		<0.5	<5	<0.5	35	350	10	<1	7	10	23	<10	182	<0.001	<0.005	<0.001
40211126		<0.5	<5	<0.5	39	396	10	<1	13	9	25	<10	180	0.002	<0.005	<0.001
40211127		<0.5	<5	<0.5	41	403	10	<1	15	7	27	<10	175	0.003	0.005	<0.001
40211128		<0.5	<5	<0.5	44	477	20	<1	29	8	28	<10	182	0.011	0.010	0.008
40211129		<0.5	<5	<0.5	38	252	20	<1	37	2	23	10	127	0.003	<0.005	0.007
40211130		<0.5	<5	<0.5	57	104	10	<1	322	2	15	<10	76	<0.001	<0.005	0.006



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40211131		6.42			50.4	14.55	13.95	7.78	3.49	2.91	1.12	<0.01	2.86	0.16	0.41	0.06
40211131 CRD		<0.02			50.8	14.70	13.95	7.87	3.53	2.92	1.13	<0.01	2.89	0.16	0.41	0.06
40211132		6.24			50.7	14.40	14.70	7.85	3.46	3.05	1.07	<0.01	3.10	0.17	0.43	0.06
40211133		6.61			50.3	14.40	14.70	7.72	3.41	3.09	1.09	<0.01	3.11	0.16	0.41	0.06
40211134		6.39			50.3	14.25	14.95	7.82	3.36	3.23	1.08	<0.01	3.19	0.17	0.40	0.06
40211135		6.57			49.6	14.45	14.60	7.73	3.46	3.00	1.05	<0.01	3.09	0.16	0.40	0.06
40211136		6.47			50.5	14.60	14.40	7.87	3.47	2.93	1.05	<0.01	2.97	0.16	0.41	0.06
40211137		6.42			50.7	15.45	13.80	8.01	3.54	2.74	1.07	<0.01	2.81	0.15	0.38	0.06
40211138		6.53			49.8	14.60	14.60	7.67	3.51	2.92	1.10	<0.01	3.00	0.16	0.41	0.06
40211139		6.52	83.4	88.4	49.0	13.05	17.10	7.26	3.49	3.55	1.20	0.01	3.68	0.19	0.44	0.06
40211140		0.17			45.0	18.35	12.30	9.56	2.06	7.32	1.03	0.34	1.30	0.14	0.16	0.05
40211141		4.81			48.0	12.45	17.85	7.11	3.17	3.92	1.24	0.01	3.82	0.19	0.44	0.05
40211142		7.51			61.2	17.55	8.97	0.51	1.73	2.79	3.77	0.03	0.81	0.04	0.11	0.01
40211143		12.53			62.6	17.00	8.53	0.64	1.96	2.58	3.57	0.03	0.76	0.03	0.11	0.01
40211144		11.75			62.0	17.05	8.21	0.44	1.81	2.57	3.55	0.03	0.77	0.03	0.12	0.01
40211145		12.45			64.1	16.75	8.18	0.48	1.93	2.59	3.18	0.03	0.77	0.03	0.12	0.01
40211146		12.72			60.6	16.70	9.44	0.45	1.70	2.58	3.47	0.02	0.75	0.03	0.11	0.01
40211147		11.99			63.0	17.55	7.61	0.38	1.95	2.43	3.37	0.03	0.84	0.04	0.12	0.01
40211148		12.40			62.1	16.15	8.76	0.41	1.90	2.40	3.08	0.03	0.73	0.03	0.12	0.01
40211149		4.98			64.4	15.70	7.90	0.95	1.96	2.39	2.90	0.02	0.71	0.03	0.11	0.01
40211150		5.69			63.5	16.20	8.27	0.86	1.89	2.46	3.09	0.02	0.74	0.03	0.11	0.01
40211151		12.25			59.9	17.20	9.22	0.39	1.62	2.59	3.60	0.03	0.79	0.03	0.12	0.01
40211151 CRD		<0.02			60.3	17.20	9.15	0.40	1.65	2.58	3.60	0.03	0.78	0.03	0.12	0.01
40211152		11.95			63.1	16.15	8.00	0.68	1.83	2.39	3.18	0.03	0.73	0.03	0.11	0.01
40211153		12.14			62.3	15.95	8.26	0.50	1.98	2.30	3.03	0.02	0.73	0.03	0.11	0.01
40211154		11.56			61.7	16.20	8.45	0.72	1.83	2.50	3.07	0.03	0.75	0.03	0.12	0.01
40211155		11.77			61.7	16.35	8.06	0.69	1.90	2.54	3.06	0.02	0.74	0.03	0.11	0.01
40211156		11.23			61.1	17.05	8.04	0.66	1.78	2.70	3.26	0.02	0.76	0.03	0.11	0.01
40211157		11.91			59.7	17.60	8.42	0.44	1.61	2.79	3.50	0.03	0.79	0.03	0.12	0.01
40211158		11.80			59.1	18.35	8.84	0.43	1.41	2.98	3.82	0.03	0.81	0.03	0.11	0.01
40211159		9.33			59.6	16.65	8.20	2.34	1.59	2.77	3.35	0.02	0.73	0.05	0.11	0.01
40211160		1.14			46.9	17.90	10.95	9.73	2.15	10.15	0.35	0.02	1.03	0.14	0.12	0.03
40211161		1.49			49.3	15.15	13.50	8.65	2.43	4.90	0.78	0.02	1.79	0.16	0.21	0.03
40211162		12.16			62.6	16.70	8.37	0.84	1.93	2.73	3.07	0.02	0.75	0.04	0.12	0.01
40211163		0.82			41.4	7.12	9.37	17.75	0.48	4.60	0.30	0.01	0.32	0.38	0.08	0.03
40211164		11.58			60.7	18.55	8.18	0.40	1.39	3.09	3.95	0.03	0.81	0.04	0.12	0.01
40211165		6.02			49.2	12.80	15.80	7.76	2.97	3.91	0.97	<0.01	3.42	0.19	0.42	0.05
40211166		3.41			49.5	12.80	16.40	7.40	2.90	4.21	1.08	0.01	3.50	0.19	0.41	0.05
40211167		5.06			47.7	14.45	14.25	9.50	2.51	5.88	0.43	0.01	1.81	0.18	0.21	0.03
40211168		5.73			48.8	14.75	14.35	9.84	2.53	6.11	0.44	0.01	1.84	0.18	0.22	0.03



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211131		0.04	0.04	0.04	320	63.8	10	3.28	6.73	3.63	2.36	24.2	7.94	<5	6.4	1.22
40211131 CRD		0.04	0.04	0.05	320	65.5	10	3.32	6.96	3.41	2.57	23.9	7.90	<5	6.6	1.30
40211132		0.04	0.04	0.05	329	65.1	10	3.82	7.13	3.66	2.45	23.6	8.55	<5	6.6	1.26
40211133		0.04	0.04	0.05	332	63.2	10	3.67	6.92	3.60	2.32	24.0	7.83	<5	6.3	1.26
40211134		0.04	0.04	0.05	361	62.4	10	4.20	6.59	3.58	2.30	23.4	7.97	<5	6.3	1.21
40211135		0.04	0.05	0.05	326	63.9	20	4.06	6.63	3.64	2.48	23.6	8.05	<5	6.2	1.26
40211136		0.04	0.04	0.05	329	64.0	10	4.24	6.84	3.58	2.41	24.5	8.21	<5	6.2	1.28
40211137		0.04	0.04	0.05	316	60.9	20	4.12	6.28	3.41	2.40	24.3	7.79	<5	5.8	1.20
40211138		0.04	0.04	0.04	313	62.6	40	3.36	6.79	3.47	2.39	24.2	8.07	<5	6.1	1.27
40211139		0.04	0.03	0.05	344	72.2	60	1.89	7.91	4.00	2.60	24.2	9.22	<5	7.6	1.43
40211140		0.04	0.03	0.34	316	25.7	2590	2.32	3.45	2.07	1.19	20.3	3.63	<5	2.9	0.68
40211141		0.04	0.03	0.05	354	72.0	70	2.20	8.30	4.44	2.56	24.4	9.15	<5	7.8	1.54
40211142		0.06	0.03	1.09	542	65.3	190	10.10	4.68	2.70	1.27	23.2	5.15	<5	4.3	0.86
40211143		0.06	0.09	1.17	496	62.6	180	8.43	4.68	2.57	1.23	21.1	5.06	<5	4.5	0.84
40211144		0.06	0.06	1.04	513	63.6	180	8.09	4.43	2.61	1.12	21.9	4.73	<5	4.3	0.83
40211145		0.05	0.09	0.77	471	63.5	180	6.75	4.25	2.56	1.17	21.2	4.93	<5	4.6	0.79
40211146		0.06	0.69	2.15	505	62.2	180	9.20	4.49	2.68	1.18	21.6	4.81	<5	4.3	0.87
40211147		0.06	0.19	0.54	509	65.3	210	9.04	3.63	2.31	0.98	22.9	4.17	<5	5.1	0.74
40211148		0.05	0.48	1.60	459	60.0	180	8.39	4.14	2.39	1.02	19.9	4.63	<5	4.1	0.79
40211149		0.05	0.44	0.82	433	60.2	170	8.00	4.10	2.27	1.13	20.3	4.78	<5	4.4	0.77
40211150		0.05	0.46	0.93	456	60.5	180	8.53	4.24	2.31	1.16	20.5	4.44	<5	4.5	0.78
40211151		0.06	0.65	1.68	515	65.8	180	10.25	4.59	2.78	1.24	22.1	4.81	<5	4.5	0.85
40211151 CRD		0.06	0.62	1.70	498	64.7	180	9.79	4.48	2.67	1.18	22.5	4.79	<5	4.2	0.82
40211152		0.05	0.62	0.95	455	64.6	190	9.35	4.40	2.55	1.11	20.6	4.85	<5	4.9	0.83
40211153		0.05	0.67	1.36	428	61.5	180	9.06	4.17	2.42	1.09	20.1	4.49	<5	4.7	0.74
40211154		0.05	0.55	1.10	439	61.5	180	9.94	4.06	2.51	1.15	20.5	4.66	<5	4.4	0.83
40211155		0.05	0.50	0.94	438	61.1	180	10.30	4.15	2.65	1.28	21.7	5.01	<5	4.3	0.80
40211156		0.05	0.53	1.08	504	60.9	170	12.25	4.36	2.58	1.39	22.8	5.24	<5	4.3	0.92
40211157		0.06	0.45	1.18	533	63.8	170	13.35	4.45	2.84	1.24	24.2	5.18	<5	4.3	0.92
40211158		0.06	0.65	1.25	566	65.6	170	13.80	4.50	2.65	1.46	26.0	5.59	<5	3.9	0.99
40211159		0.06	1.00	1.15	507	64.0	160	11.70	4.70	2.81	1.45	23.3	5.32	<5	3.9	1.00
40211160		0.01	0.02	0.04	126.0	19.1	160	1.55	2.72	1.72	1.03	18.4	3.02	<5	2.2	0.67
40211161		0.03	0.39	0.70	235	34.1	100	8.97	5.32	3.13	1.98	22.0	5.41	<5	4.0	1.15
40211162		0.05	0.59	1.22	471	61.0	160	10.65	4.75	2.86	1.35	23.0	5.43	<5	4.3	0.90
40211163		0.01	4.06	0.33	62.1	32.4	70	1.99	5.97	2.50	2.78	10.5	8.21	<5	1.7	1.08
40211164		0.07	0.06	0.54	644	67.4	180	8.97	4.77	2.88	1.53	26.3	5.41	<5	4.2	1.01
40211165		0.03	0.45	0.19	310	71.6	40	7.64	7.22	3.64	2.83	25.9	9.05	<5	7.4	1.44
40211166		0.04	0.08	0.08	325	68.7	40	10.20	7.45	3.98	2.67	25.7	9.07	<5	7.3	1.44
40211167		0.01	0.18	0.10	129.0	27.8	100	5.80	5.09	2.99	1.75	21.3	5.23	<5	3.6	1.09
40211168		0.01	0.19	0.09	127.0	27.7	100	5.82	5.09	2.82	1.60	21.4	5.38	<5	3.6	0.98



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1	ME-MSB1
		La ppm 0.5	Lu ppm 0.01	Nb ppm 0.2	Nd ppm 0.1	Pr ppm 0.03	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5
40211131		27.3	0.44	21.2	37.5	8.32	35.7	8.04	2	519	1.1	1.21	3.48	0.44	1.16	256
40211131 CRD		28.0	0.43	21.5	38.0	8.38	35.7	8.41	2	525	1.2	1.21	3.76	0.45	1.13	260
40211132		28.2	0.46	22.6	37.8	8.54	35.1	8.66	2	473	1.2	1.20	3.46	0.45	1.14	274
40211133		27.2	0.40	21.9	36.5	8.22	35.1	8.75	2	470	1.2	1.19	3.59	0.48	1.12	297
40211134		27.4	0.39	21.3	36.4	8.23	36.1	8.34	2	448	1.1	1.20	3.59	0.47	1.12	309
40211135		27.7	0.42	21.5	37.6	8.25	34.7	8.22	2	455	1.2	1.23	3.48	0.49	1.08	293
40211136		27.6	0.41	21.3	37.9	8.24	35.3	8.40	2	480	1.2	1.24	3.43	0.44	1.05	275
40211137		26.5	0.36	19.7	35.2	7.81	36.7	7.80	2	531	1.0	1.13	3.42	0.44	1.02	276
40211138		27.5	0.42	21.4	36.3	8.22	37.0	8.00	2	470	1.1	1.21	3.49	0.45	1.14	316
40211139		31.3	0.48	25.4	40.9	9.40	39.7	9.14	2	460	1.4	1.43	3.90	0.51	1.20	404
40211140		11.6	0.25	7.9	15.3	3.28	34.4	3.59	2	371	0.3	0.60	1.12	0.27	0.35	190
40211141		31.2	0.49	26.7	42.3	9.54	43.9	9.81	3	408	1.4	1.41	3.94	0.54	1.30	434
40211142		32.1	0.36	11.3	32.3	8.12	187.0	5.94	2	115.0	0.5	0.77	7.86	0.36	5.61	157
40211143		30.2	0.38	10.8	30.4	7.62	174.0	6.08	1	104.5	0.5	0.73	7.67	0.37	5.85	152
40211144		31.1	0.36	10.8	30.7	7.71	164.5	6.07	2	99.4	0.6	0.70	7.87	0.36	5.59	149
40211145		30.9	0.36	10.8	30.5	7.60	156.0	5.86	2	92.5	0.5	0.74	7.63	0.36	4.76	144
40211146		30.3	0.38	10.7	30.6	7.65	168.5	5.64	2	89.9	0.5	0.71	7.91	0.36	7.99	172
40211147		31.1	0.40	11.9	29.2	7.48	154.0	4.77	2	85.7	0.6	0.63	8.13	0.34	4.49	146
40211148		29.4	0.35	10.0	28.5	7.28	146.5	5.72	2	86.7	0.5	0.72	7.27	0.34	5.35	135
40211149		29.0	0.34	10.2	28.4	7.33	140.0	5.47	2	101.5	0.5	0.71	7.13	0.32	4.37	127
40211150		29.6	0.36	10.2	29.0	7.41	148.5	5.77	2	97.4	0.5	0.72	7.56	0.34	4.81	134
40211151		32.6	0.39	11.3	32.2	7.90	175.5	6.20	2	85.6	0.6	0.81	8.16	0.36	7.47	162
40211151 CRD		31.5	0.37	11.5	32.0	7.86	172.5	5.72	2	84.6	0.5	0.69	7.64	0.41	6.79	158
40211152		31.1	0.34	10.5	30.1	7.60	155.5	5.77	2	97.6	0.5	0.72	7.88	0.33	5.93	155
40211153		29.7	0.36	10.3	29.8	7.48	146.0	5.59	2	93.0	0.5	0.68	7.43	0.35	6.47	143
40211154		30.2	0.33	10.5	30.0	7.44	152.0	6.04	2	98.2	0.5	0.78	7.60	0.35	5.39	145
40211155		30.0	0.35	10.8	30.4	7.65	152.0	5.84	2	101.5	0.5	0.74	7.42	0.36	5.32	140
40211156		31.7	0.39	10.3	31.1	7.92	165.0	6.44	2	99.2	0.5	0.77	8.95	0.31	5.92	143
40211157		33.3	0.41	11.0	31.9	8.17	175.5	6.04	2	84.9	0.6	0.76	9.10	0.37	5.85	153
40211158		34.1	0.41	11.0	33.1	8.48	189.5	6.61	2	82.9	0.7	0.85	9.08	0.38	6.53	168
40211159		32.7	0.40	10.4	32.0	8.17	169.5	6.45	2	121.5	0.6	0.80	8.61	0.36	6.52	151
40211160		8.8	0.20	5.7	11.8	2.51	10.0	2.71	1	263	0.2	0.49	0.91	0.23	0.22	123
40211161		16.1	0.38	8.6	21.4	4.61	35.8	5.04	1	274	0.7	0.90	2.13	0.45	1.17	278
40211162		31.4	0.36	10.2	30.4	7.92	150.0	6.22	2	110.5	0.6	0.83	8.55	0.36	6.01	142
40211163		16.1	0.30	4.5	20.1	4.58	16.9	7.05	2	227	0.2	1.19	3.50	0.33	1.79	59
40211164		35.3	0.44	11.3	34.7	8.49	177.0	6.38	2	110.5	0.9	0.83	9.49	0.43	6.91	172
40211165		32.7	0.48	25.6	43.5	9.61	43.8	9.26	3	423	1.5	1.34	4.27	0.55	1.47	376
40211166		30.9	0.43	25.3	42.0	9.45	49.7	9.41	2	423	1.4	1.34	4.33	0.55	1.17	380
40211167		12.4	0.37	8.1	18.4	4.00	18.8	4.68	1	243	0.5	0.78	1.37	0.40	0.39	274
40211168		12.3	0.36	8.6	18.6	3.91	19.6	4.71	1	241	0.4	0.86	1.38	0.44	0.36	276



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	OA-GRA05	TOT-ICP06
	Analyte Units LOR	W ppm 1	Y ppm 0.5	Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	In ppm 0.005	Re ppm 0.001	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	LOI % 0.01	Total % 0.01
40211131		1	32.6	3.01	232	1.6	0.04	0.017	0.014	0.001	0.06	1.0	<0.01	0.08	1.07	98.80
40211131 CRD		1	33.1	3.11	238	1.8	0.04	0.018	0.014	0.001	0.05	1.1	<0.01	0.09	1.08	99.54
40211132		1	33.5	3.01	242	1.5	0.05	0.018	0.018	0.001	0.05	1.2	0.01	0.10	1.01	100.04
40211133		1	32.1	2.76	229	1.3	0.05	0.012	0.020	0.001	<0.05	1.0	<0.01	0.09	0.87	99.36
40211134		1	32.1	2.91	225	1.3	0.05	0.013	0.017	0.001	0.05	1.0	<0.01	0.11	0.98	99.83
40211135		1	32.3	2.90	224	1.4	0.04	0.020	0.020	0.001	0.05	1.0	<0.01	0.11	1.08	98.72
40211136		1	32.4	2.87	224	1.5	0.05	0.020	0.019	0.001	0.07	1.0	<0.01	0.11	0.86	99.32
40211137		1	30.3	2.85	213	1.3	0.04	0.018	0.020	0.001	0.06	1.0	0.01	0.12	1.15	99.90
40211138		<1	32.5	2.84	231	1.5	0.05	0.019	0.018	0.001	0.06	1.0	<0.01	0.14	1.00	98.87
40211139		1	37.0	3.17	270	2.2	0.05	0.018	0.020	<0.001	0.11	1.2	<0.01	0.12	0.84	99.91
40211140		<1	18.1	1.82	104	5.2	0.21	0.007	0.030	0.003	0.37	1.4	0.05	0.41	1.96	99.61
40211141		1	39.3	3.54	277	2.1	0.05	0.011	0.019	0.001	0.33	1.2	<0.01	0.17	0.67	98.96
40211142		2	23.6	2.45	149	9.8	0.15	0.017	0.052	0.001	0.31	0.9	0.02	0.36	3.65	101.23
40211143		2	22.3	2.38	146	11.6	0.15	0.017	0.051	0.002	0.31	0.9	0.02	0.31	3.61	101.49
40211144		2	22.5	2.46	156	13.3	0.19	0.023	0.041	0.002	0.25	0.8	0.02	0.36	3.62	100.27
40211145		2	21.9	2.44	151	14.3	0.20	0.020	0.036	0.002	0.27	0.9	0.02	0.42	3.40	101.62
40211146		2	23.4	2.62	145	41.4	0.30	0.035	0.040	0.008	1.40	1.3	0.05	1.03	4.57	100.49
40211147		2	19.0	2.30	175	13.5	0.23	0.011	0.024	0.001	0.35	0.6	0.02	0.30	3.85	101.24
40211148		2	21.3	2.28	152	22.0	0.24	0.033	0.030	0.003	1.16	0.7	0.03	0.53	4.34	100.11
40211149		2	20.9	2.29	149	13.9	0.21	0.034	0.029	0.001	0.67	0.7	0.02	0.34	4.02	101.15
40211150		2	21.2	2.37	149	13.6	0.23	0.043	0.030	0.002	0.77	0.6	0.03	0.39	4.12	101.35
40211151		2	23.6	2.63	150	25.7	0.28	0.070	0.041	0.004	1.27	0.9	0.04	0.52	5.11	100.67
40211151 CRD		2	23.3	2.69	149	27.0	0.30	0.085	0.038	0.004	1.27	0.8	0.05	0.54	5.03	100.94
40211152		2	22.2	2.32	168	20.6	0.23	0.080	0.030	0.004	0.92	0.9	0.03	0.32	4.56	100.85
40211153		2	21.2	2.45	159	18.5	0.23	0.103	0.039	0.004	1.44	1.0	0.04	0.33	4.83	100.10
40211154		2	21.9	2.44	150	19.6	0.25	0.094	0.038	0.002	1.00	0.9	0.03	0.28	4.88	100.34
40211155		2	21.9	2.42	152	15.5	0.22	0.097	0.039	0.002	0.69	0.8	0.03	0.22	4.83	100.09
40211156		2	22.6	2.59	150	15.2	0.24	0.126	0.042	0.002	0.80	0.8	0.03	0.21	5.17	100.74
40211157		2	22.9	2.60	148	18.1	0.26	0.117	0.042	0.002	0.89	0.8	0.03	0.23	5.33	100.43
40211158		2	23.9	2.72	142	19.8	0.28	0.124	0.043	0.003	0.97	0.9	0.04	0.32	5.76	101.74
40211159		2	24.2	3.10	142	22.7	0.25	0.123	0.044	0.003	0.80	0.9	0.04	0.44	5.41	100.89
40211160		<1	14.2	1.54	84	0.6	0.01	<0.005	0.014	0.001	<0.05	0.5	<0.01	0.03	1.07	100.55
40211161		1	26.5	2.84	142	6.8	0.04	0.066	0.040	0.002	0.97	0.8	0.01	0.91	3.00	99.95
40211162		2	22.3	2.78	149	19.8	0.22	0.072	0.035	0.003	0.92	1.0	0.03	0.40	4.71	101.94
40211163		1	29.6	2.15	60	22.1	0.04	0.127	0.104	<0.001	0.51	1.3	0.01	0.09	16.20	98.05
40211164		2	24.9	2.93	144	11.6	0.12	0.101	0.059	0.003	0.35	1.0	0.04	0.26	3.97	101.31
40211165		1	35.0	3.33	267	5.7	0.03	0.035	0.043	0.001	0.25	1.6	<0.01	0.35	2.44	99.96
40211166		1	34.8	3.24	264	2.7	0.03	0.020	0.026	<0.001	0.13	1.3	<0.01	0.46	1.07	99.56
40211167		<1	25.1	2.45	134	1.8	0.02	0.015	0.022	0.001	0.11	0.9	<0.01	0.32	2.43	99.40
40211168		1	25.7	2.63	136	1.6	0.02	0.012	0.021	0.001	0.67	0.9	<0.01	0.28	2.16	101.27



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

To: RIO TINTO EXPLORATION CANADA INC.
 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Se ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
40211131		<0.5	<5	<0.5	38	261	20	<1	36	7	23	<10	135	0.002	<0.005	0.007
40211131 CRD		<0.5	<5	<0.5	37	256	20	<1	35	7	22	<10	134	0.003	<0.005	0.008
40211132		<0.5	<5	<0.5	41	271	20	<1	36	6	24	<10	141	0.005	<0.005	0.008
40211133		<0.5	<5	<0.5	41	266	20	<1	41	7	23	<10	136	0.004	<0.005	0.008
40211134		<0.5	<5	<0.5	43	278	20	<1	44	6	24	<10	138	0.003	<0.005	0.009
40211135		<0.5	<5	<0.5	41	271	20	<1	43	9	22	<10	137	0.003	<0.005	0.009
40211136		<0.5	<5	<0.5	40	277	20	<1	41	6	23	10	134	0.003	<0.005	0.009
40211137		<0.5	<5	<0.5	38	251	20	<1	41	9	21	<10	126	0.003	<0.005	0.010
40211138		<0.5	<5	<0.5	42	279	20	<1	51	8	23	<10	145	0.006	0.005	0.018
40211139		<0.5	<5	0.5	48	274	20	<1	66	11	25	<10	162	0.003	0.005	0.015
40211140		<0.5	<5	<0.5	64	1120	30	<1	698	7	17	<10	106	0.025	0.050	0.220
40211141		<0.5	<5	<0.5	53	346	20	<1	75	6	26	<10	159	0.005	0.006	0.020
40211142		<0.5	10	<0.5	23	70	140	1	89	12	22	<10	176	0.001	<0.005	0.002
40211143		<0.5	13	<0.5	22	69	110	1	84	17	20	<10	173	0.002	<0.005	0.001
40211144		<0.5	16	<0.5	23	61	120	2	83	15	21	<10	162	0.005	<0.005	0.001
40211145		<0.5	16	<0.5	22	58	90	1	86	10	20	10	137	0.001	<0.005	0.002
40211146		<0.5	37	<0.5	25	102	60	10	103	26	21	<10	234	0.002	<0.005	0.002
40211147		<0.5	16	<0.5	24	50	50	<1	81	9	21	<10	89	0.001	<0.005	0.001
40211148		<0.5	25	<0.5	23	70	50	4	84	20	20	<10	168	0.002	<0.005	0.002
40211149		<0.5	17	<0.5	19	51	60	1	74	13	19	<10	146	0.001	<0.005	0.001
40211150		<0.5	20	<0.5	20	51	60	<1	75	17	19	<10	138	0.001	<0.005	0.001
40211151		<0.5	24	0.6	25	78	60	5	92	24	22	<10	235	0.003	<0.005	0.001
40211151 CRD		<0.5	27	0.5	24	77	60	4	92	24	22	<10	235	0.002	<0.005	0.001
40211152		<0.5	25	0.6	21	63	60	4	88	17	19	<10	204	0.001	<0.005	<0.001
40211153		<0.5	18	<0.5	23	75	70	4	87	22	19	<10	189	0.002	<0.005	0.001
40211154		<0.5	20	<0.5	22	62	70	2	86	16	20	<10	164	0.001	<0.005	0.001
40211155		<0.5	17	<0.5	21	58	70	3	84	19	20	<10	154	0.001	<0.005	0.001
40211156		<0.5	15	<0.5	22	64	80	3	85	17	21	10	170	0.001	<0.005	0.001
40211157		<0.5	23	<0.5	24	60	80	3	88	19	22	<10	174	0.002	<0.005	0.001
40211158		<0.5	23	<0.5	25	79	80	5	98	17	24	<10	206	0.001	<0.005	0.002
40211159		<0.5	21	0.7	23	74	70	5	87	17	21	<10	228	0.001	<0.005	0.001
40211160		<0.5	5	<0.5	61	112	10	<1	355	<2	13	<10	84	0.001	0.012	0.007
40211161		<0.5	6	<0.5	56	199	30	<1	123	5	33	<10	105	0.001	0.006	0.004
40211162		<0.5	23	0.5	24	76	70	5	89	18	21	<10	194	0.001	<0.005	0.001
40211163		<0.5	22	1.4	10	19	100	<1	41	9	10	<10	275	<0.001	<0.005	<0.001
40211164		<0.5	15	0.5	23	88	120	5	93	26	23	<10	209	0.001	<0.005	0.001
40211165		<0.5	10	0.8	52	270	30	<1	78	4	26	<10	171	0.003	<0.005	0.009
40211166		<0.5	<5	0.8	54	277	20	<1	80	2	26	<10	158	0.003	<0.005	0.009
40211167		<0.5	<5	0.5	56	193	20	<1	120	<2	32	<10	119	0.001	0.005	0.004
40211168		<0.5	<5	0.7	55	194	20	<1	119	2	32	10	137	0.002	0.006	0.004



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	WEI-21	CRU-QC	PUL-QC	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Pass2mm %	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	Na2O %	MgO %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
40211169		7.95			49.2	12.70	16.25	7.49	3.05	4.18	1.07	0.01	3.44	0.19	0.40	0.05
40211170		0.17			46.3	18.60	11.95	9.56	2.08	7.42	1.05	0.34	1.29	0.14	0.16	0.05
40211171		4.95			48.0	14.60	14.20	9.46	2.43	5.64	0.47	0.01	1.86	0.17	0.22	0.03
40211171 CRD		<0.02			48.5	14.70	14.30	9.55	2.44	5.70	0.46	0.01	1.87	0.17	0.21	0.03
40211172		4.02			48.7	13.00	16.30	7.42	3.04	4.55	1.01	0.01	3.48	0.19	0.36	0.06
40211173		5.22			49.2	12.80	16.50	7.43	3.12	4.06	1.16	0.01	3.55	0.19	0.40	0.06
40211174		6.01			49.5	12.80	16.60	7.52	3.11	4.11	1.03	0.01	3.52	0.19	0.41	0.06
40211175		5.19			49.8	12.80	16.75	7.24	3.15	4.07	1.19	0.01	3.59	0.19	0.42	0.06
40211176		6.17			49.9	12.75	16.90	7.07	3.00	4.46	1.16	0.01	3.48	0.20	0.41	0.05
40211177		5.47			50.9	13.10	16.50	6.91	3.02	4.17	1.22	0.01	3.44	0.19	0.41	0.05
40211178		7.38			60.7	18.10	9.01	0.42	1.62	3.08	3.58	0.03	0.80	0.04	0.11	0.01
40211179		5.49			60.4	17.85	8.87	0.84	1.73	3.17	3.36	0.03	0.87	0.05	0.12	0.01
40211180		4.52			60.6	17.70	8.81	0.85	1.74	3.12	3.30	0.03	0.85	0.05	0.12	0.01
40211181		5.76			60.5	17.80	7.99	1.33	1.50	2.97	3.66	0.03	0.81	0.05	0.12	0.01
40211182		5.66			49.8	14.70	14.05	8.92	2.51	5.55	0.53	0.02	1.82	0.17	0.22	0.03
40211183		12.10			60.1	17.35	8.53	0.64	1.70	2.92	3.46	0.02	0.77	0.03	0.12	0.01
40211184		11.77			61.0	16.95	8.80	0.60	1.86	2.94	3.15	0.03	0.78	0.04	0.12	0.01
40211185		3.56			62.5	16.95	8.56	0.93	1.63	2.91	3.00	0.03	0.89	0.04	0.13	0.02
40211186		7.47			49.4	12.80	16.30	7.52	2.73	4.14	1.02	0.01	3.42	0.19	0.40	0.06
40211187		7.68	84.6	88.4	61.3	16.25	8.62	1.25	1.98	2.82	2.83	0.03	0.94	0.05	0.13	0.02
40211188		10.82			60.8	17.35	7.86	0.50	1.75	2.90	3.39	0.03	0.78	0.03	0.12	0.01
40211189		11.55			60.6	16.75	7.81	0.47	1.90	2.88	3.25	0.03	0.78	0.03	0.12	0.01
40211190		1.14			45.7	17.35	11.70	9.78	2.17	10.75	0.42	0.03	1.03	0.14	0.12	0.03
40211191		11.26			61.2	16.55	7.70	0.70	2.06	2.85	3.06	0.10	0.78	0.04	0.12	0.01
40211191 CRD		<0.02			62.7	16.15	7.40	0.56	2.13	2.80	2.94	0.03	0.76	0.03	0.11	0.01
40211192		11.29			60.4	16.70	7.98	0.85	1.91	2.93	3.08	0.03	0.79	0.04	0.12	0.01
40211193		11.45			58.0	18.05	10.15	0.67	1.46	3.04	3.83	0.03	0.81	0.03	0.11	0.01
40211194		7.07			47.1	15.20	13.85	9.92	2.43	6.60	0.39	0.03	1.61	0.17	0.18	0.03
40211195		5.66			46.3	15.05	13.40	9.47	2.35	6.44	0.38	0.02	1.59	0.16	0.18	0.03
40211196		3.77			47.7	15.00	11.95	7.40	2.31	6.17	0.84	0.02	1.33	0.15	0.16	0.03
40211197		5.77			47.7	15.45	13.65	9.61	2.37	6.66	0.50	0.02	1.57	0.16	0.18	0.03
40211198		6.14			59.7	18.50	8.66	0.51	1.31	3.14	3.74	0.03	0.88	0.03	0.12	0.01



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
 www.alsglobal.com

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 354-200 GRANVILLE STREET
 VANCOUVER BC V6C 1S4

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CERTIFICATE OF ANALYSIS TB15140692

Sample Description	Method Analyte Units LOR	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		BaO %	C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm
40211169		0.04	0.07	0.05	330	68.3	40	8.21	7.40	3.89	2.71	25.4	8.68	<5	7.1	1.44
40211170		0.04	0.04	0.34	342	25.6	2520	2.52	3.43	2.25	1.21	20.7	3.65	<5	3.1	0.73
40211171		0.02	0.06	0.06	138.5	28.8	100	7.11	5.01	3.30	1.76	21.9	5.20	<5	3.8	1.04
40211171 CRD		0.02	0.05	0.07	137.5	28.7	100	7.14	5.12	3.19	1.61	21.8	5.51	<5	3.9	1.10
40211172		0.04	0.12	0.03	329	61.1	50	5.91	6.51	3.33	2.55	24.8	8.02	<5	6.2	1.27
40211173		0.04	0.08	0.03	403	68.7	40	4.70	7.57	3.99	2.66	24.9	9.39	<5	7.3	1.38
40211174		0.04	0.09	0.04	377	68.4	40	4.93	7.06	3.94	2.75	25.1	8.87	<5	7.3	1.36
40211175		0.05	0.07	0.06	435	70.1	40	4.91	7.26	3.84	2.94	24.5	8.81	<5	7.3	1.56
40211176		0.05	0.07	0.05	404	68.2	50	4.84	7.25	3.77	2.64	24.3	8.64	<5	7.4	1.36
40211177		0.04	0.07	0.07	416	70.8	50	5.38	7.22	3.84	2.69	25.7	9.05	<5	7.4	1.44
40211178		0.07	0.06	1.26	604	67.1	170	5.76	4.88	2.71	1.50	24.9	5.60	<5	4.2	0.93
40211179		0.06	0.18	1.01	525	64.8	170	8.34	4.50	2.92	1.37	25.5	5.53	<5	4.4	1.03
40211180		0.06	0.18	1.02	508	63.4	170	8.54	4.20	2.68	1.33	24.6	5.26	<5	4.3	1.00
40211181		0.06	0.48	0.67	582	67.2	180	10.90	4.29	2.55	1.67	25.0	5.34	<5	4.1	0.85
40211182		0.02	0.20	0.22	168.5	30.9	100	4.15	4.98	2.98	1.66	22.1	5.40	<5	3.8	1.14
40211183		0.06	0.62	1.28	511	64.0	170	11.45	4.74	2.59	1.25	24.2	5.05	<5	3.9	0.92
40211184		0.05	0.57	1.52	479	61.2	180	11.45	4.29	2.63	1.25	22.7	5.32	<5	4.0	0.96
40211185		0.06	0.15	0.85	577	63.7	180	9.90	4.58	2.54	1.37	23.4	5.28	<5	4.5	0.92
40211186		0.03	0.42	0.13	317	68.3	40	6.51	7.09	3.56	2.77	24.8	8.89	<5	6.9	1.41
40211187		0.05	0.38	0.95	487	60.5	170	9.01	4.40	2.41	1.35	22.1	5.33	<5	4.6	0.90
40211188		0.05	0.70	0.84	497	64.4	180	13.20	4.76	2.61	1.35	23.5	5.38	<5	4.1	0.94
40211189		0.05	0.56	0.40	428	60.8	180	11.45	4.33	2.26	1.34	22.8	5.23	<5	4.2	0.89
40211190		0.02	0.04	0.04	130.5	18.6	180	1.46	2.60	1.52	0.96	18.0	2.59	<5	2.0	0.53
40211191		0.05	0.48	0.24	399	61.2	180	10.30	4.21	2.37	1.23	22.0	4.85	<5	4.1	0.84
40211191 CRD		0.04	0.46	0.21	381	59.0	190	9.63	4.15	2.51	1.25	21.6	4.90	<5	4.1	0.86
40211192		0.05	0.47	0.41	454	62.7	190	9.47	4.40	2.49	1.40	22.6	5.05	<5	4.0	0.93
40211193		0.06	0.22	1.90	536	65.3	170	9.67	4.56	2.91	1.41	24.5	5.37	<5	4.2	0.91
40211194		0.02	0.32	0.14	131.0	23.5	170	3.88	4.03	2.29	1.37	20.2	4.12	<5	2.9	0.89
40211195		0.02	0.39	0.21	154.5	24.0	170	4.41	4.34	2.53	1.35	19.6	4.27	<5	2.9	0.86
40211196		0.04	0.76	0.16	329	29.6	160	3.51	4.22	2.17	1.35	19.7	4.15	<5	2.9	0.86
40211197		0.02	0.36	0.16	166.0	24.9	170	4.46	4.45	2.64	1.40	20.5	4.14	<5	2.9	0.84
40211198		0.06	0.23	0.42	570	69.3	190	11.55	4.73	2.85	1.50	26.5	4.88	<5	4.0	0.96



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		La ppm	Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm
40211169		30.9	0.45	24.7	41.0	9.21	44.6	9.04	2	445	1.5	1.31	4.08	0.50	1.30	387
40211170		12.1	0.28	7.1	14.9	3.36	34.2	3.43	2	388	0.4	0.59	1.34	0.28	0.38	208
40211171		13.0	0.41	8.8	19.2	4.02	18.4	5.03	1	245	0.5	0.86	1.48	0.39	0.48	280
40211171 CRD		12.9	0.43	8.4	18.6	4.04	18.7	4.88	1	245	0.4	0.82	1.33	0.41	0.39	284
40211172		27.8	0.40	23.2	37.2	8.21	42.0	8.54	2	474	1.4	1.22	3.84	0.50	1.17	408
40211173		31.2	0.47	25.0	42.1	9.27	41.4	9.19	2	478	1.6	1.29	4.30	0.50	1.29	388
40211174		30.9	0.47	25.3	40.8	9.29	38.4	9.23	2	450	1.5	1.35	4.13	0.52	1.22	385
40211175		32.1	0.50	27.5	42.9	9.43	44.6	9.60	2	477	1.6	1.36	4.32	0.53	1.31	389
40211176		30.9	0.42	25.3	40.9	9.30	44.7	9.03	2	441	1.5	1.25	4.24	0.50	1.24	379
40211177		32.9	0.44	25.2	41.6	9.62	51.1	9.38	3	431	1.4	1.26	4.51	0.54	1.53	390
40211178		35.2	0.43	11.0	35.2	8.67	153.0	6.72	2	96.4	0.6	0.83	9.32	0.40	7.43	165
40211179		33.2	0.49	10.9	32.8	8.44	156.5	6.87	2	106.0	0.6	0.80	8.55	0.42	6.91	169
40211180		32.9	0.45	10.4	33.1	8.09	154.0	6.26	2	108.0	0.7	0.82	8.47	0.40	6.77	166
40211181		34.7	0.38	11.1	33.7	8.53	170.5	6.51	2	119.0	0.7	0.76	9.05	0.42	6.24	159
40211182		13.8	0.35	8.7	19.5	4.28	18.4	4.70	1	239	0.5	0.80	1.80	0.40	0.64	273
40211183		32.9	0.39	10.5	31.9	8.26	169.0	6.16	2	100.5	0.6	0.75	8.60	0.38	6.45	151
40211184		31.8	0.38	10.5	31.4	7.82	153.0	5.85	2	104.0	0.6	0.78	8.57	0.35	6.41	148
40211185		32.2	0.35	11.4	32.5	8.15	125.0	6.46	2	155.0	0.6	0.77	8.58	0.39	5.07	154
40211186		30.5	0.45	24.2	39.9	9.18	41.4	9.10	2	461	1.4	1.20	4.18	0.52	1.27	383
40211187		31.0	0.37	11.2	30.8	7.64	126.0	5.77	2	156.0	0.6	0.70	8.14	0.40	5.42	158
40211188		32.6	0.39	10.5	32.1	8.15	165.0	6.31	2	87.5	0.6	0.73	8.67	0.41	5.66	151
40211189		30.8	0.42	10.2	30.5	7.88	156.0	5.72	2	83.3	0.8	0.73	8.53	0.40	5.48	148
40211190		8.5	0.20	5.5	11.3	2.57	11.9	2.80	1	264	0.4	0.48	0.89	0.25	0.23	129
40211191		30.4	0.38	10.1	30.6	7.61	144.5	5.38	2	87.1	0.7	0.70	8.31	0.38	4.54	140
40211191 CRD		29.6	0.34	10.0	28.7	7.49	138.5	5.81	2	85.8	0.8	0.74	8.02	0.36	4.45	135
40211192		32.3	0.37	10.5	31.9	8.04	143.5	6.01	2	111.0	0.7	0.72	7.97	0.35	5.16	148
40211193		33.1	0.39	10.6	32.7	8.25	174.5	6.68	2	90.9	0.7	0.82	8.89	0.42	7.86	169
40211194		10.4	0.33	6.7	15.7	3.19	13.9	3.70	1	242	0.5	0.72	1.04	0.34	0.33	267
40211195		10.5	0.30	6.8	15.5	3.21	15.2	3.69	1	253	0.5	0.69	1.12	0.38	0.42	266
40211196		13.9	0.31	7.2	18.1	4.01	28.1	3.88	1	280	0.5	0.68	2.59	0.35	1.10	218
40211197		11.2	0.34	6.9	15.2	3.45	20.5	3.84	1	243	0.5	0.72	1.35	0.39	0.61	261
40211198		35.2	0.43	11.1	34.3	8.90	168.0	6.53	2	98.4	0.8	0.83	8.82	0.39	5.60	177



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		W ppm	Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Ti ppm	LOI %
40211169	1	35.0	3.17	263	2.2	0.04	0.011	0.025	0.001	0.13	1.4	0.01	0.36	1.18	99.25
40211170	<1	18.0	1.84	117	4.4	0.14	0.010	0.028	0.003	0.28	1.3	0.05	0.41	1.99	100.97
40211171	1	26.6	2.68	138	1.2	0.02	0.015	0.022	0.001	0.15	0.9	0.01	0.40	2.36	99.47
40211171 CRD	1	26.7	2.80	138	1.1	0.02	0.015	0.021	0.001	0.14	0.9	<0.01	0.39	2.34	100.30
40211172	1	30.9	2.79	237	2.4	0.04	0.011	0.025	<0.001	0.17	1.1	0.01	0.31	1.76	99.92
40211173	1	34.0	3.26	264	1.9	0.04	0.014	0.026	0.001	0.13	1.3	0.01	0.24	1.64	100.16
40211174	1	34.2	3.23	265	1.8	0.04	0.016	0.027	<0.001	0.14	1.2	0.01	0.24	1.65	100.55
40211175	1	35.2	3.26	269	1.8	0.04	0.019	0.029	0.001	0.12	1.1	<0.01	0.26	1.08	100.40
40211176	1	34.1	3.22	261	2.0	0.04	0.031	0.025	0.001	0.14	1.1	<0.01	0.29	1.17	100.61
40211177	1	35.0	3.20	266	2.4	0.04	0.030	0.026	0.001	0.11	1.2	0.01	0.34	1.28	101.24
40211178	2	25.1	2.86	147	17.2	0.14	0.121	0.055	0.004	0.49	1.0	0.04	0.29	4.17	101.74
40211179	2	25.0	2.89	148	19.4	0.22	0.094	0.043	0.003	0.34	1.1	0.03	0.38	4.22	101.58
40211180	2	24.3	2.46	148	19.7	0.21	0.099	0.047	0.004	0.34	1.1	0.03	0.40	4.11	101.35
40211181	2	23.1	2.43	149	20.0	0.24	0.048	0.037	0.003	1.00	0.9	0.03	0.44	4.67	101.50
40211182	1	26.5	2.79	143	12.0	0.03	0.030	0.031	0.001	0.20	0.9	0.01	0.38	1.96	100.30
40211183	2	23.1	2.75	145	23.2	0.25	0.069	0.040	0.003	0.82	0.9	0.05	0.58	5.15	100.86
40211184	2	23.0	2.59	143	19.2	0.24	0.065	0.038	0.002	1.02	1.1	0.04	0.55	5.11	101.44
40211185	2	22.5	2.69	160	13.3	0.11	0.081	0.036	0.002	0.50	0.9	0.02	0.46	4.17	101.82
40211186	1	34.1	3.21	259	2.1	0.05	0.036	0.053	<0.001	0.22	1.4	<0.01	0.49	2.65	100.67
40211187	1	22.9	2.44	161	14.1	0.19	0.096	0.037	0.002	0.40	1.0	0.03	0.38	4.21	100.48
40211188	2	24.0	2.72	144	16.1	0.24	0.120	0.042	0.003	1.18	0.8	0.03	0.27	5.44	101.01
40211189	2	22.4	2.51	154	10.6	0.22	0.136	0.038	0.002	0.90	0.7	0.03	0.22	4.97	99.65
40211190	<1	14.0	1.39	73	0.5	0.01	<0.005	0.014	<0.001	<0.05	0.4	0.01	0.03	1.00	100.24
40211191	2	21.0	2.56	151	7.4	0.18	0.111	0.036	0.001	0.39	0.7	0.02	0.18	4.67	99.89
40211191 CRD	2	21.2	2.43	153	7.1	0.18	0.129	0.038	0.001	0.45	0.8	0.03	0.17	4.49	100.15
40211192	2	22.7	2.64	150	11.0	0.18	0.112	0.035	0.002	0.20	0.7	0.02	0.29	4.49	99.38
40211193	2	25.4	2.91	142	24.8	0.25	0.078	0.045	0.004	0.64	1.1	0.04	0.52	4.55	100.80
40211194	1	22.3	2.41	114	1.9	0.02	0.094	0.034	0.001	<0.05	1.0	0.01	0.65	2.66	100.19
40211195	1	22.0	2.36	114	7.3	0.03	0.093	0.039	0.001	0.35	0.8	0.01	0.55	3.21	98.60
40211196	1	20.9	2.27	118	12.5	0.03	0.217	0.053	0.001	6.65	0.8	0.02	0.50	5.86	98.96
40211197	1	21.9	2.15	117	2.8	0.03	0.075	0.034	0.001	0.68	0.7	0.01	0.64	2.50	100.42
40211198	2	24.9	2.90	154	14.3	0.21	0.156	0.046	0.001	0.45	0.7	0.03	0.73	4.65	101.34



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP24	PGM-ICP24	PGM-ICP24
		Ag ppm	As ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Tl ppm	Zn ppm	Au ppm	Pt ppm	Pd ppm
40211169		<0.5	<5	0.8	55	279	20	<1	84	<2	27	10	163	0.003	<0.005	0.009
40211170		0.6	8	0.5	71	1235	40	2	781	6	19	10	117	0.020	0.050	0.203
40211171		<0.5	<5	<0.5	58	208	20	<1	123	3	34	<10	126	0.002	0.006	0.005
40211171 CRD		<0.5	<5	0.6	57	200	20	<1	121	2	33	10	122	0.001	<0.005	0.005
40211172		<0.5	<5	1.0	59	257	20	<1	101	<2	25	10	175	0.002	<0.005	0.009
40211173		<0.5	9	0.7	56	293	20	<1	83	4	26	10	163	0.003	<0.005	0.009
40211174		<0.5	<5	0.7	55	283	20	<1	78	6	26	<10	154	0.003	<0.005	0.009
40211175		<0.5	<5	0.7	55	291	20	<1	80	8	27	<10	177	0.003	<0.005	0.010
40211176		<0.5	<5	1.1	59	271	20	<1	100	7	25	10	174	0.003	<0.005	0.010
40211177		<0.5	<5	0.7	53	271	20	<1	84	13	26	<10	171	0.002	<0.005	0.010
40211178		<0.5	22	0.5	25	102	120	7	93	23	23	<10	227	0.001	<0.005	0.001
40211179		<0.5	24	0.5	26	87	110	5	93	18	23	<10	227	0.001	<0.005	0.002
40211180		<0.5	23	1.0	27	97	110	6	98	21	23	<10	272	0.001	<0.005	0.002
40211181		<0.5	23	<0.5	24	77	90	4	91	15	23	<10	139	0.001	<0.005	0.001
40211182		<0.5	14	0.6	55	194	20	<1	117	<2	32	<10	116	0.001	0.005	0.004
40211183		<0.5	26	<0.5	25	73	70	4	92	20	23	<10	184	0.002	<0.005	0.001
40211184		<0.5	21	<0.5	25	70	70	4	95	18	22	<10	168	0.001	<0.005	0.001
40211185		<0.5	19	<0.5	24	60	70	2	88	12	22	<10	140	0.001	<0.005	0.001
40211186		<0.5	<5	0.7	53	267	10	<1	77	7	26	10	155	0.004	<0.005	0.010
40211187		<0.5	15	<0.5	26	82	70	3	90	13	21	<10	176	0.001	<0.005	0.002
40211188		<0.5	22	<0.5	22	76	80	4	90	14	22	<10	163	0.001	<0.005	0.001
40211189		<0.5	12	<0.5	21	66	90	2	89	13	22	<10	178	0.001	<0.005	0.001
40211190		<0.5	<5	0.5	64	120	10	<1	378	<2	12	<10	91	0.001	<0.005	0.005
40211191		<0.5	11	<0.5	20	54	70	1	81	11	20	<10	138	0.001	<0.005	0.001
40211191 CRD		<0.5	13	<0.5	21	53	70	1	81	17	20	<10	160	0.001	<0.005	0.001
40211192		<0.5	13	<0.5	20	57	80	1	86	12	21	<10	144	0.001	<0.005	0.001
40211193		<0.5	25	<0.5	28	98	100	8	101	18	22	<10	208	0.002	<0.005	0.001
40211194		<0.5	<5	<0.5	56	176	10	<1	163	<2	28	<10	105	0.002	0.007	0.007
40211195		<0.5	7	<0.5	57	185	20	<1	166	<2	30	<10	109	0.002	0.007	0.008
40211196		<0.5	11	<0.5	46	139	70	<1	149	2	26	<10	142	0.002	0.006	0.005
40211197		<0.5	5	0.5	54	173	20	<1	165	3	29	<10	106	0.002	0.007	0.007
40211198		<0.5	16	<0.5	23	65	110	2	95	13	24	<10	145	0.001	<0.005	0.001



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.			
	BAG-04	CRU-31	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-32	PUL-32d
	PUL-QC	SPL-21	SPL-21d	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	C-IR07	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	PGM-ICP24	S-IR08
	TOT-ICP06			

Appendix F – Geophysical Report



crone

Crone Pulse-EM Survey

Rio Tinto Exploration
Crystal Lake Project

*Geophysical Survey & Logistics Report
December 2015*



Conducted by:
Crone Geophysics & Exploration Ltd.



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Introduction

Crone Geophysics & Exploration Limited was contracted by Rio Tinto to conduct Borehole Pulse Electromagnetic Surveys on its Crystal Lake project located near Thunder Bay, Ontario, Canada. This report summarizes the geophysical work carried out during June 12th – July 23rd, 2014.

Three (3) boreholes using two (2) transmitting loops were surveyed during this period. The appendices to this report contain plan and section maps, linear 5-axis PEM profiles, the Step response profiles, and the BHMAG profiles.

Property Location & Access

The Crystal Lake project is located north of Crystal Lake, approximately 60km south of Thunder Bay, ON, and 10km north of the Canada/U.S. border (Figure 1). Access from Thunder Bay is provided by major highways and unpaved drill roads.



Figure 1: General location of the Crystal Lake project.

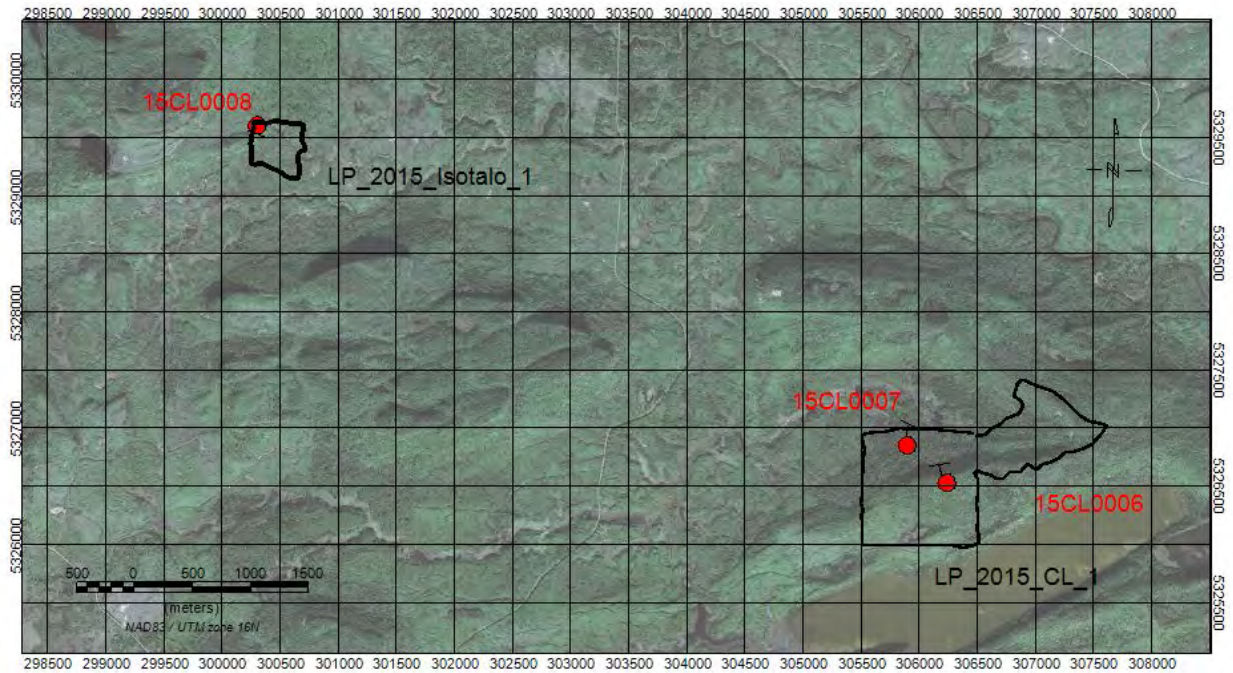


Figure 2: Crystal Lake Project loop and borehole location map

Personnel

The personnel involved in this project during the reporting period include:

Survey Operator:	Jess Meikle
Data Processing:	Mark Hunter
Report:	Eric Meunier



Equipment



Pulse-EM Transmitter

- 4.8kW for up to 30 amps in single or 60 amps in dual modes
- Timebases: 8.33ms to 2000ms
- Ramp Settings: Fast Ramp, 0.5ms, 1.0ms or 1.5ms
- Powered by Standard Motor Generator
- Current control and monitoring with optional loop damping
- Auto Shutdown and grounded case for safety



Pulse-EM CDR2 Receiver

- 26-Bit equivalent A/D resolution
- Programmable gate configurations and optional full waveform
- Crone *Smartstacking* algorithm
- Sampling Rate: 250K samples/second | Sampling Interval: 4μsec
- Precision crystal oscillator or cable synchronization



Pulse-EM Induction Coil Probes

- Measures dB/dt in 3 Components
- Ferrite Cored Induction Sensor
- Pressure tested to 2800m
- RAD Tool Orientation with 3 Axis Magnetometer and 3 Axis Accelerometer

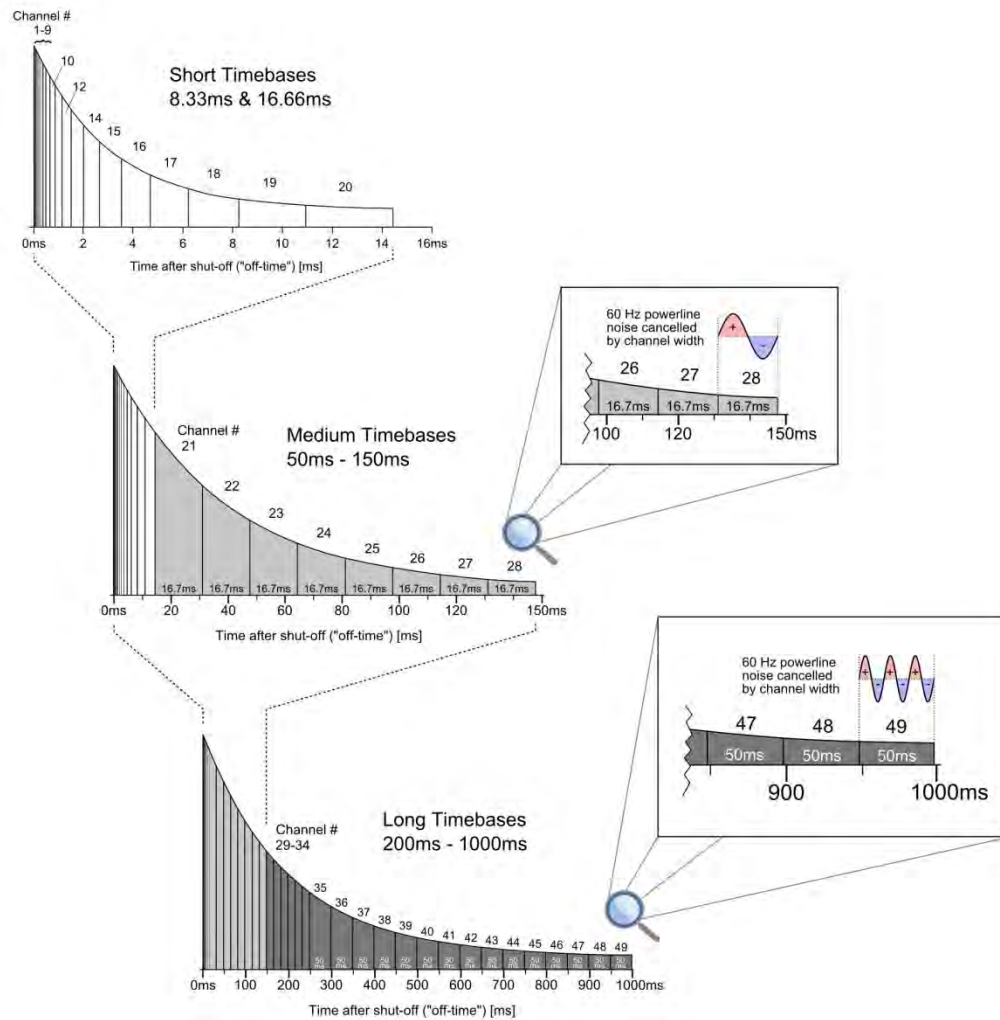


Figure 3: Standard channel configurations.

Survey Methods

Crone Pulse-EM is a time domain electromagnetic method in which a precise pulse of current with a controlled linear shut off is transmitted through a large loop of wire on the ground and the rate of decay (dB/dt) of the induced secondary field is measured across a series of time windows during the off-time. The electromotive force (EMF) created by the sudden turn-off of the current induces eddy currents in nearby conductive material, generating a secondary electromagnetic field. When the primary field is



terminated, this electromagnetic field will decay with time. The amplitude of the secondary field and the decay rate are dependent on the quality and size of the conductor.

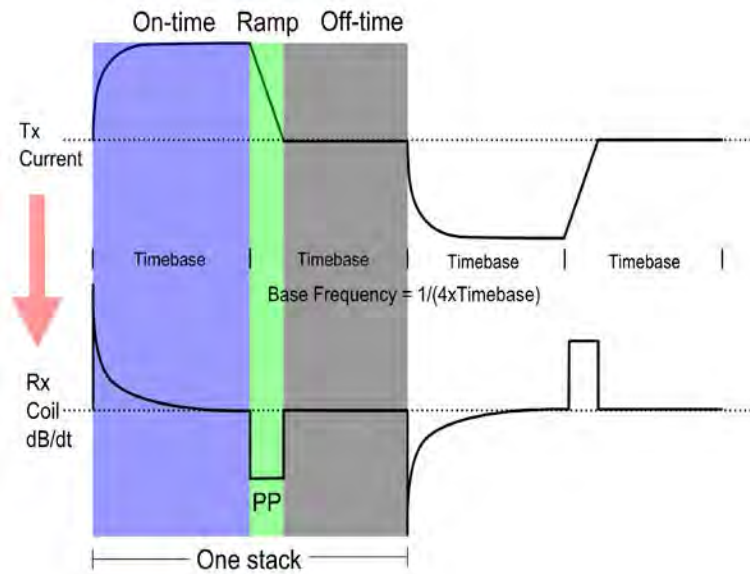


Figure 4: Standard Crone Pulse-EM waveform.

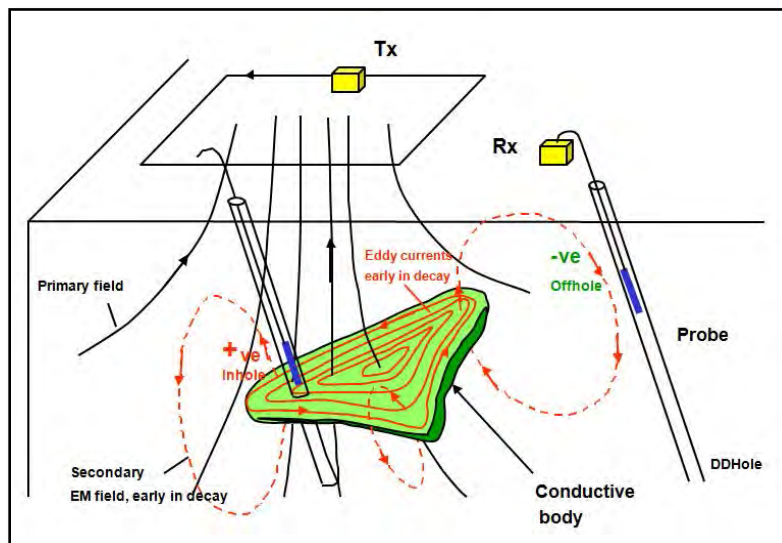


Figure 5: Representation of fundamental EM theory of a borehole survey.



A 3D borehole Pulse-EM system was assembled in which the axial component (Z) and cross component (XY) of the induced secondary field were measured with a Crone induction coil probe. The Z component detects any in-hole or off-hole anomalies and gives information on size, conductivity, and distances to the edge of conductors. The XY components measure two orthogonal components of the EM field in a plane orientated at right angles to the borehole. These results give directional information to the center of the conductive body. Data is usually collected at a nominal sample interval of 10m. Data units are nT/s.

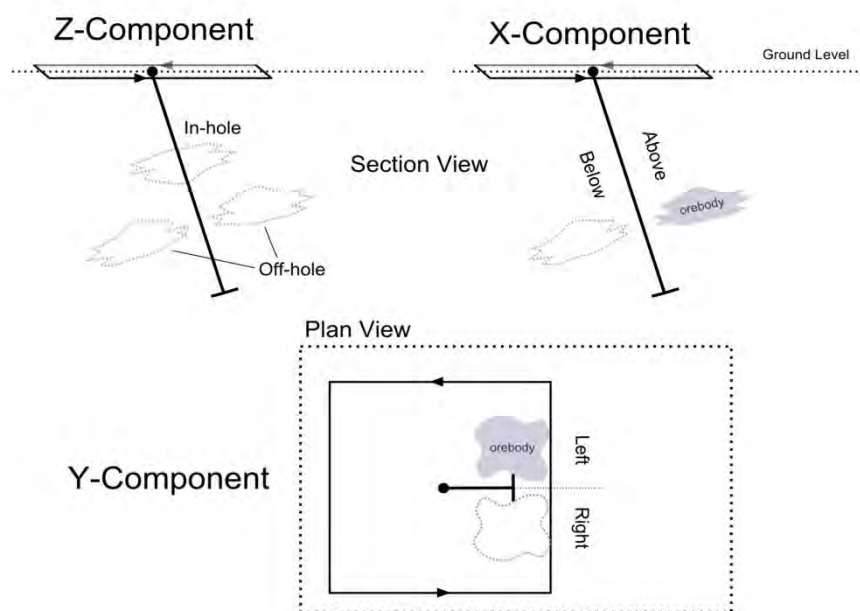


Figure 6: Representation of the spatial components measured by the 3D Borehole Pulse EM probe.

In addition to measuring the standard Primary Pulse channel in the Tx shut-off ramp and the off-time channels, the Step Response was also calculated. Step Response requires accurate geometrical control in which the loop position and the hole geometry are accurately determined. In the current surveys positional information was collected by Crone using a sub-meter capable GPS and regional base station. Positional information is provided in the UTM projection, Zone 16N, utilizing the NAD 1983 (Conus) datum. The Step Response is widely regarded as a very important tool in the search for high conductance massive sulphides.



The calculated Step Response values are binned into an S1 channel (from 0.5T to T), an S2 channel (from 0.25T to 0.5T), an S3 channel (from 0.125T to 0.25T) and an S4 channel (from 0.0625T to 0.125T, where T is the time base). The S1 channel is normalized to the theoretical primary field, while S2, S3 and S4 are normalized to S1. The S1 value is used to identify responses from highly conductive sources. In the absence of any conductors, the primary field should exactly equal the theoretical field for a given component. In the case of generally resistive host and poorer conductors, the S1 value will be very close or equal to the theoretical field for a given component.

Borehole static magnetic data (BHMAG) was also recorded using the low speed RAD tool triaxial magnetometer. The BHMAG data were recorded in logging mode (multishot) resulting in approximately 2 samples per meter. The raw, unrotated XYZ magnetic data were post-processed into an absolute reference frame of East, North, and Down components. The RAD tool accelerometers provided de-rotation of the raw X and Y data into a borehole reference frame (A,U,V). Borehole dip and azimuth data were estimated based on the accelerometer and magnetometer data taken from the RAD tool and was used for final processing of the BHMAG data into an absolute reference frame (East, North, Down). Data units were nT.

Data Acquisition Parameters

Table 1: Survey transmitter loop coverage.

Tx Loop	Property	Size (m)	Corner Coordinates NAD 1983 (Conus) UTM Zone 16N
14CLS2MOD	Crystal Lake	~ 1500 x 2500	305500E, 5326945N
			305502E, 5325997N
			306501E, 5326005N
			306470E, 5326620N
			307615E, 5327029N
			306866E, 5327421N
			306805E, 5327280N
			306893E, 5327197N
306490E, 5326940N			
15_ISOTALO_01	Crystal Lake	~ 400 x 400	300253E, 5329279N
			300655E, 5329156N
			300692E, 5329617N



300256E, 5329633N

Table 2: Borehole coverage.

Borehole	Tx loop	Area	Timebase (ms)	Ramp (ms)	Off Time Channels	Current (A)	Station (m)		Length (m)	Comp
							From	To		
15CL0006	14CLS2MOD	Crystal Lake	50.00	1.5	22	14	10	720	710	Z,X,Y
15CL0008	15_ISOTALO_01	Crystal Lake	50.00	1.5	22	20	40	410	370	Z,X,Y

Table 3: 22-Channel Configuration for the 50.00 ms time base (Induction Probe)

Channel	Start (s)	Finish (s)	Channel	Start (s)	Finish (s)
PP	-0.0002	-0.0001			
1	4.8e-05	6.4e-05	2	6.4e-05	8.4e-05
3	8.4e-05	0.000112	4	0.000112	0.000152
5	0.000152	0.000204	6	0.000204	0.000268
7	0.000268	0.00036	8	0.00036	0.00048
9	0.00048	0.00064	10	0.00064	0.000848
11	0.000848	0.001128	12	0.001128	0.001496
13	0.001496	0.001992	14	0.001992	0.002644
15	0.002644	0.003512	16	0.003512	0.004664
17	0.004664	0.006192	18	0.006192	0.00822
19	0.00822	0.01092	20	0.01092	0.0144
21	0.0144	0.031068	22	0.0110	0.047736

Production Summary

Table 4: Production summary

Date (d.m.y)	Type of Day	Comments
12-Jun-15	MOB	Travelled from Thunder Bay to Sudbury.
13-Jun-15	Standby	UTV training.
14-Jun-15	MOB	Travelled from Sudbury to White River.
15-Jun-15	MOB	Travelled from White River to Thunder Bay.
16-Jun-15	Survey	Attended the safety meeting and site induction. Unloaded the truck and picked up the gear and had the gear inspected.
17-Jun-15	Survey	Transported the gear to the grid, travelled back to Thunder Bay to pick up additional gear and returned to drop it off at the grid. Inspected the transmitter



		loop and found a missing section on a cliff, which was replaced.
18-Jun-15	Survey	Extended the east transmitter loop edge. Transported more gear to the site. Attended the drill site induction.
19-Jun-15	Survey	Finished transporting the gear to the site. Recorded the GPS coordinates of the east side of the transmitter loop. Set-up the transmitter systems.
20-Jun-15	Survey	Had to re-locate the transmitter site. Dummied hole 15CL0006 and surveyed the Z-component from 10m-200m.
21-Jun-15	Survey	Surveyed the Z-component from 200m-720m, and the XY-components from 10m-720m of hole 15CL0006.
12-Jun-15	Survey	Surveyed from 720m-10m using the RAD-tool. Transported some gear away.
13-Jun-15	Survey	Picked up part of the transmitter loop and transported more gear away.
14-Jun-15	Survey	Picked up part of the transmitter loop.
18-Jul-15	MOB	Travelled from Ottawa to Thunder Bay.
19-Jul-15	Survey	Attended the morning safety meeting. Travelled to the grid and laid the transmitter loop. Transported some gear to the borehole.
20-Jul-15	Survey	Attended the morning safety meeting. Recorded the GPS coordinates of the transmitter loop. Transported the rest of the gear to the borehole.
21-Jul-15	Survey	Attended the morning safety meeting. Waited for approval to survey the hole. Surveyed the Z,X,Y-components of hole 15CL0007 and surveyed using the RAD-tool from 40m-410m.
22-Jul-15	Survey	Attended the morning safety meeting. Picked up some of the transmitter loop and half the transmitter gear.
23-Jul-15	Survey	Attended the morning safety meeting. Picked up the rest of the gear and transmitter loop.

Respectfully submitted,

Eric Meunier, M.Sc.

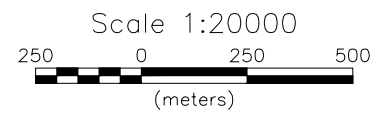
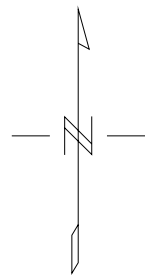
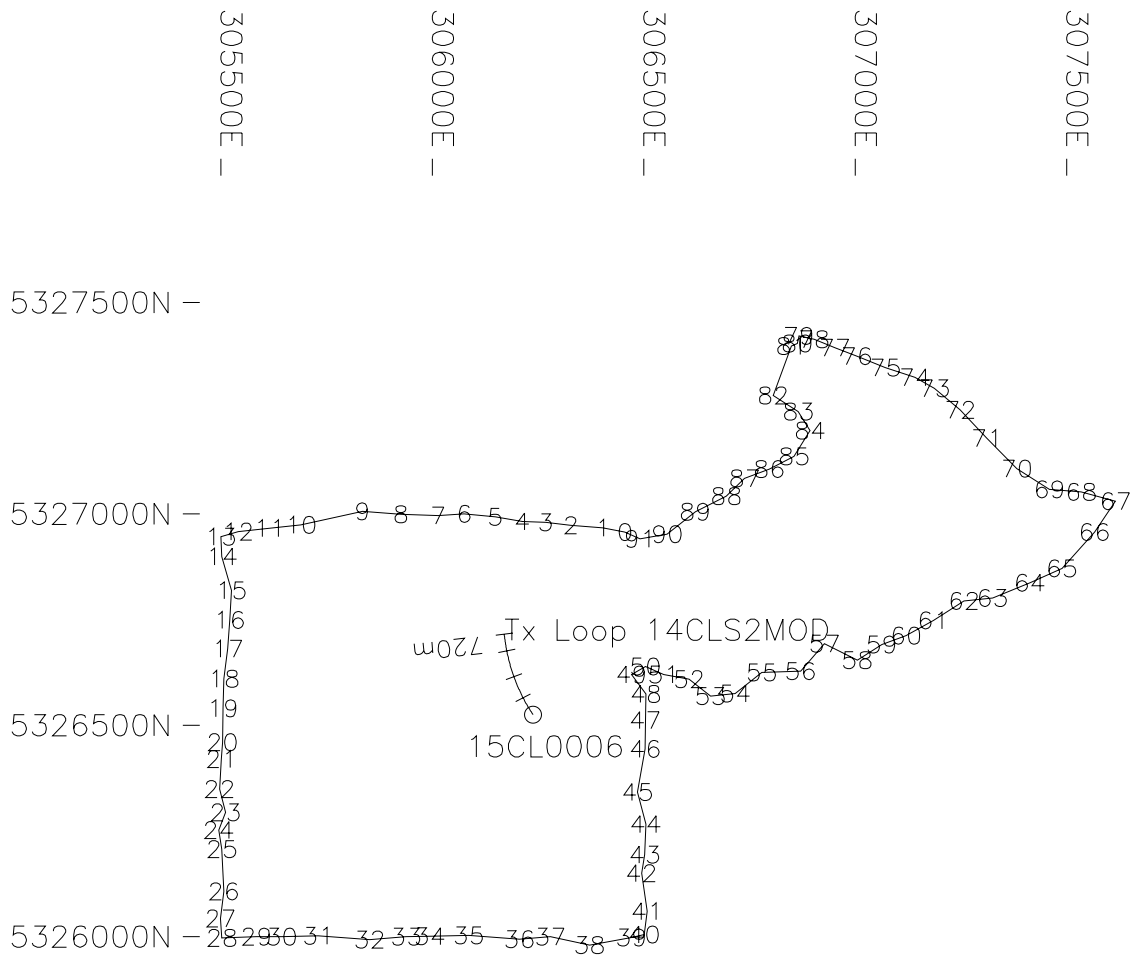
Project Geophysicist

Crone Geophysics & Exploration Ltd.



APPENDIX 1: PROFILE PLAN MAPS





Rio Tinto Exploration
Crystal Lake

3-D Borehole Pulse EM Survey
Borehole & Loop Location Map

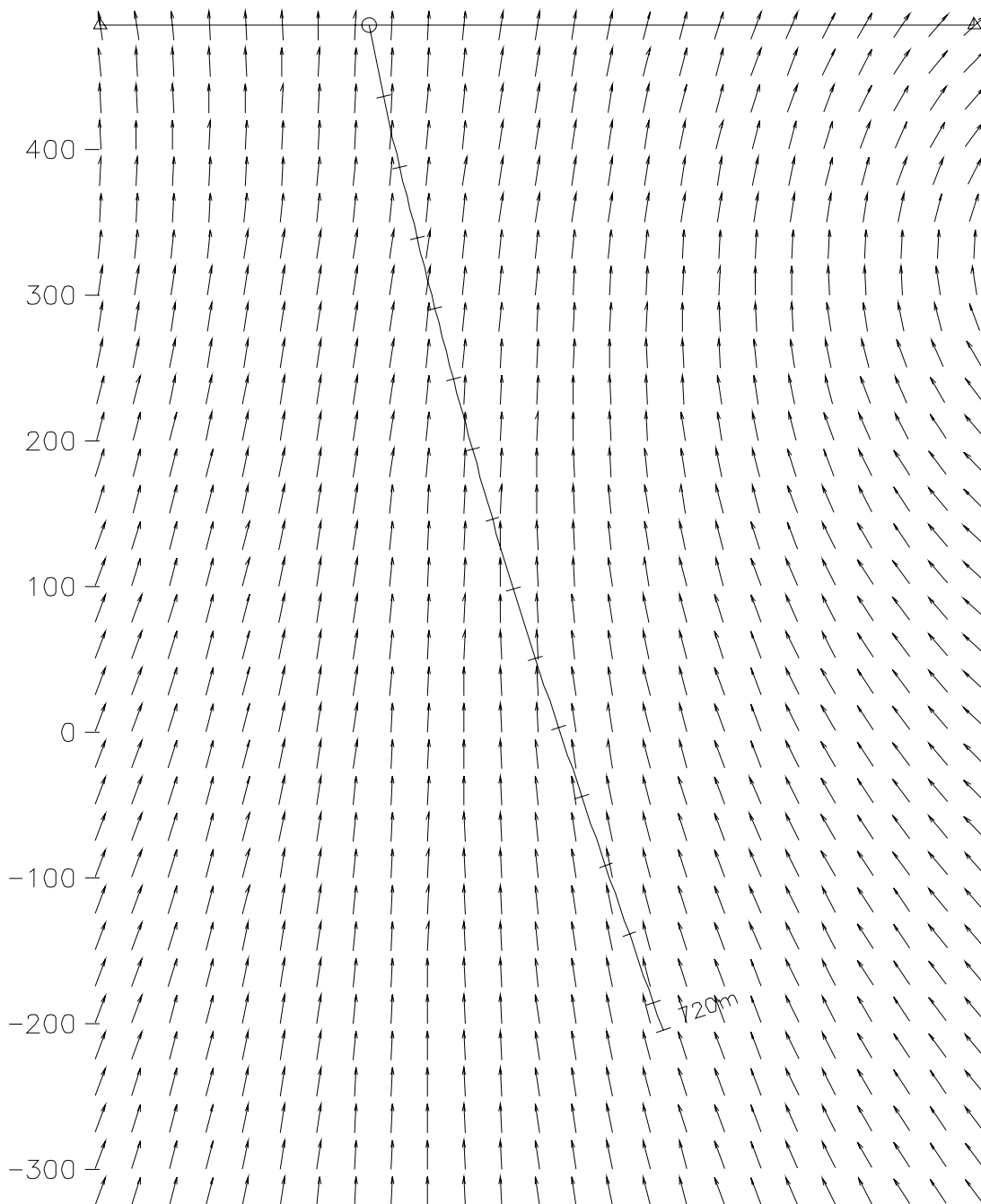
Hole: 15CL0006
Survey Date: June 21, 2015

Crone Geophysics & Exploration Ltd.

306291E, 5326348N

15CL0006

306098E, 5326916N



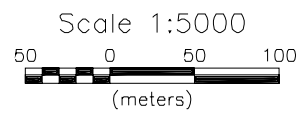
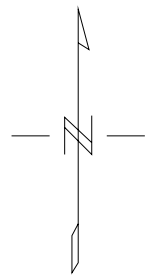
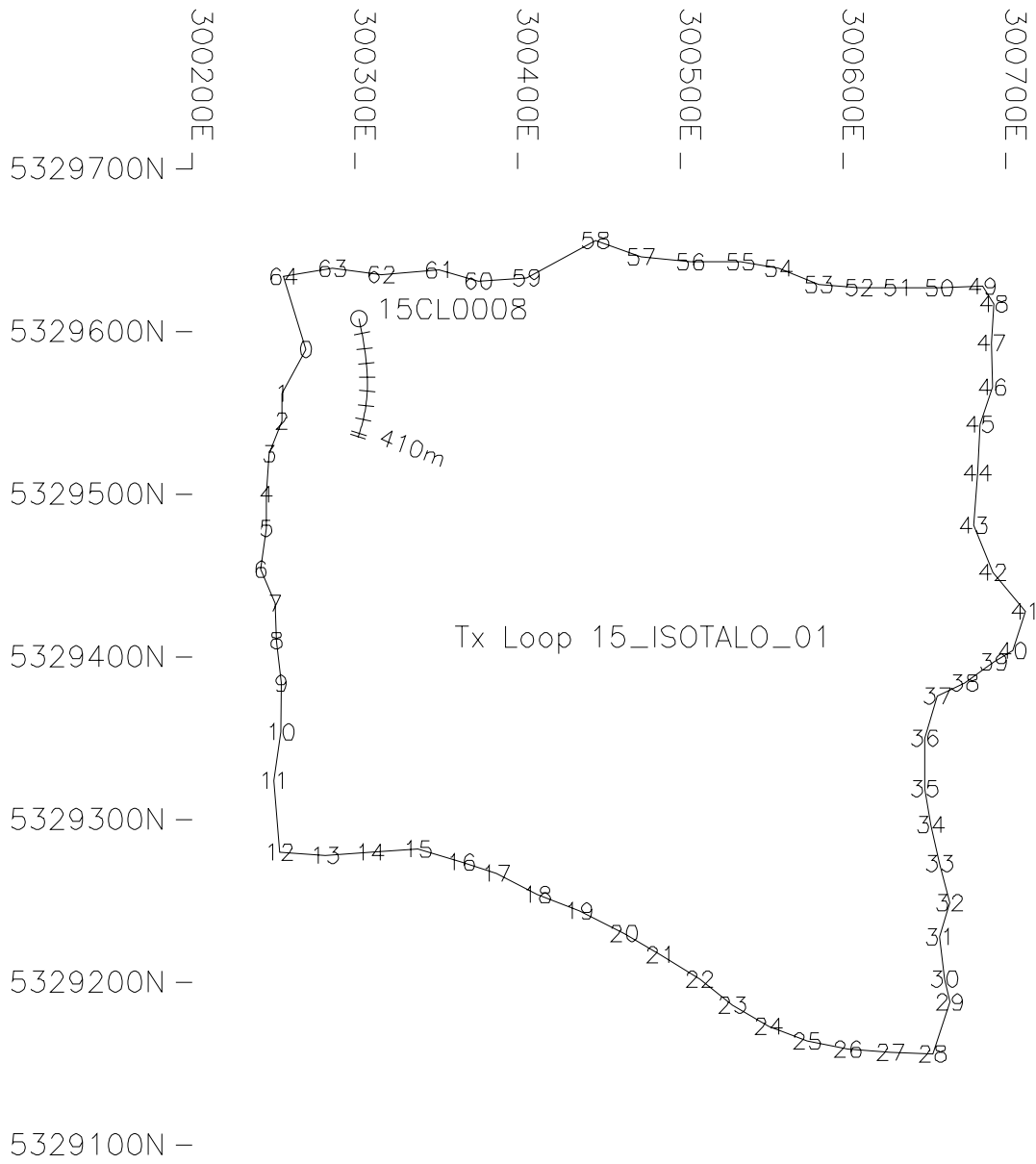
Rio Tinto Exploration
Crystal Lake

3-D Borehole Pulse EM Survey
Hole Section with Primary Field

Hole: 15CL0006, Loop: 14CLS2MOD

Survey Date: June 21, 2015

Crone Geophysics & Exploration Ltd.

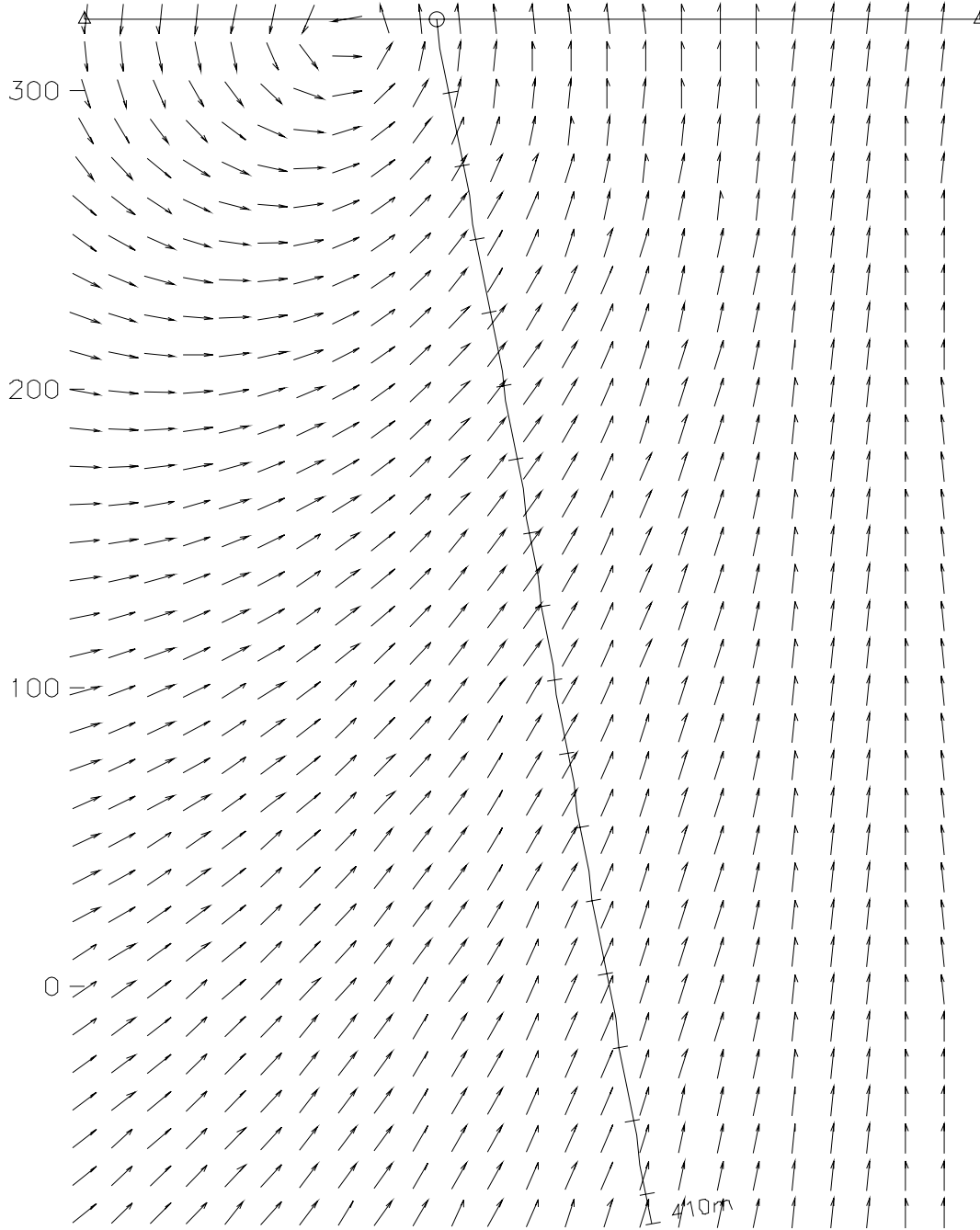


Rio Tinto Exploration
Crystal Lake
3-D Borehole Pulse EM Survey
Borehole & Loop Location Map
Hole: 15CL0008
Survey Date: July 21, 2015
Crone Geophysics & Exploration Ltd.

300308E, 5329725N

15CL0008

300302E, 5329425N



Scale 1:2500
25 0 25 50
(meters)

Rio Tinto Exploration
Crystal Lake

3-D Borehole Pulse EM Survey
Hole Section with Primary Field

Hole:15CL0008, Tx:15_ISOTALO_01

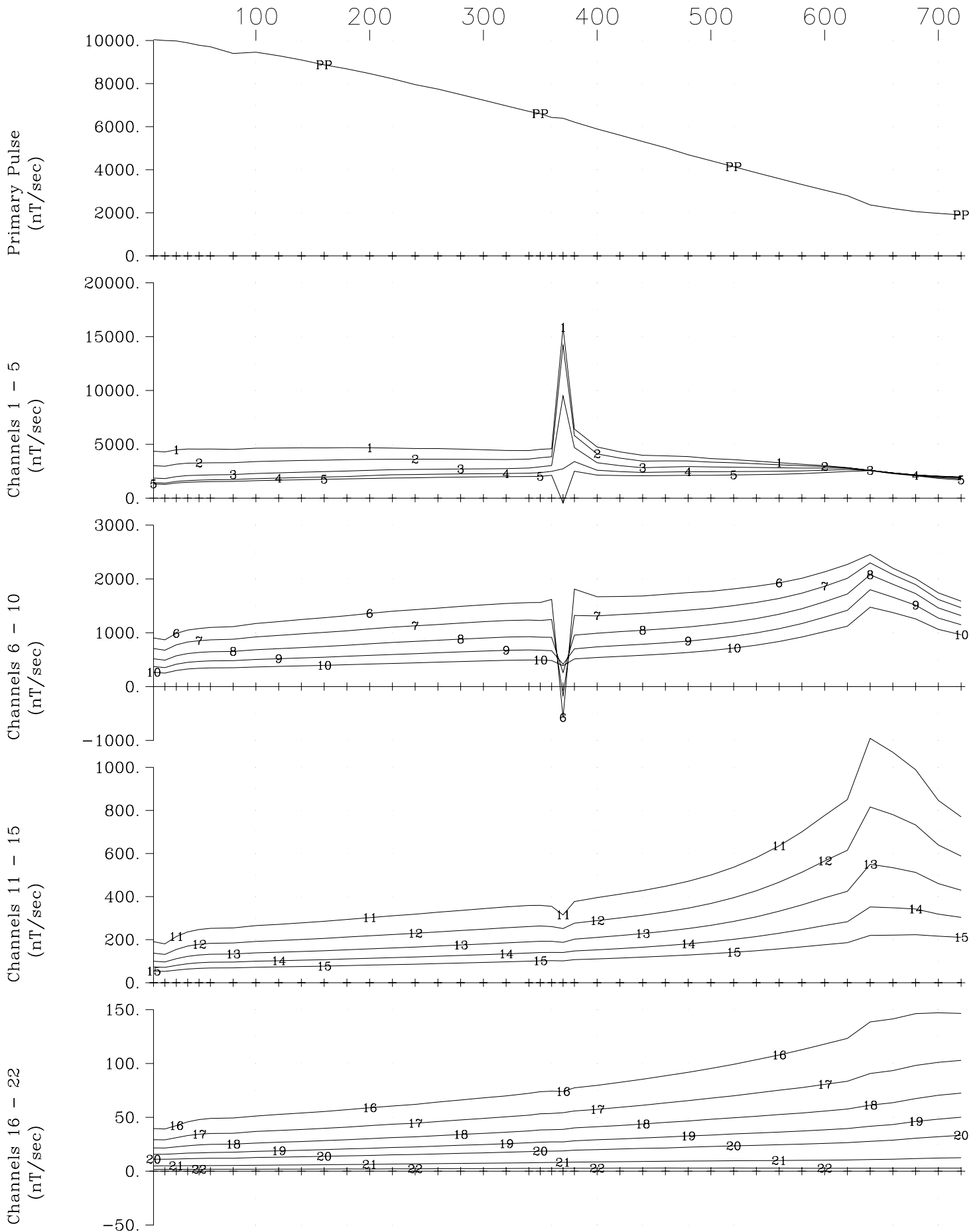
Survey Date: July 21, 2015

Crone Geophysics & Exploration Ltd.

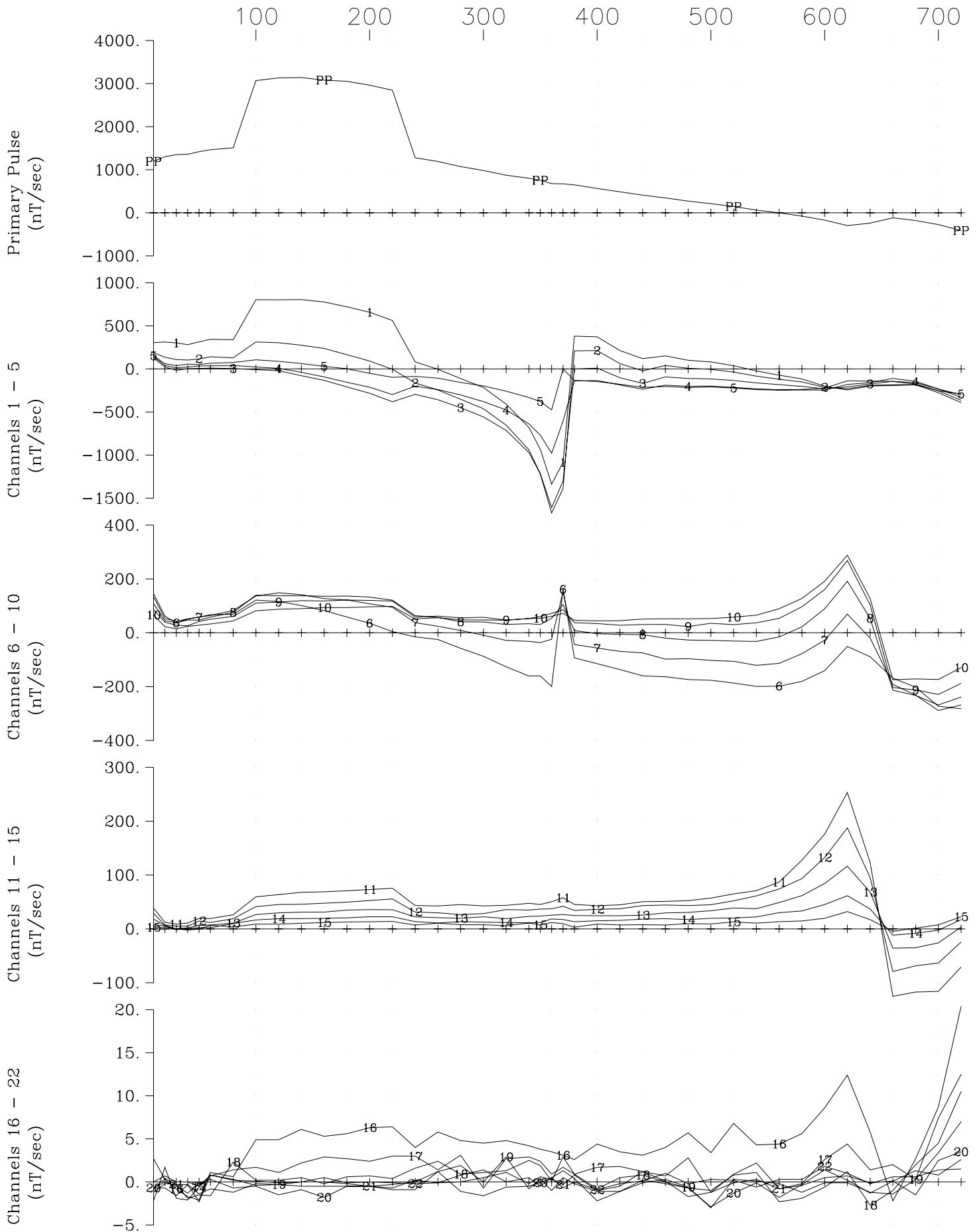


APPENDIX 2: LINEAR (5-AXIS) PULSE-EM DATA PROFILES

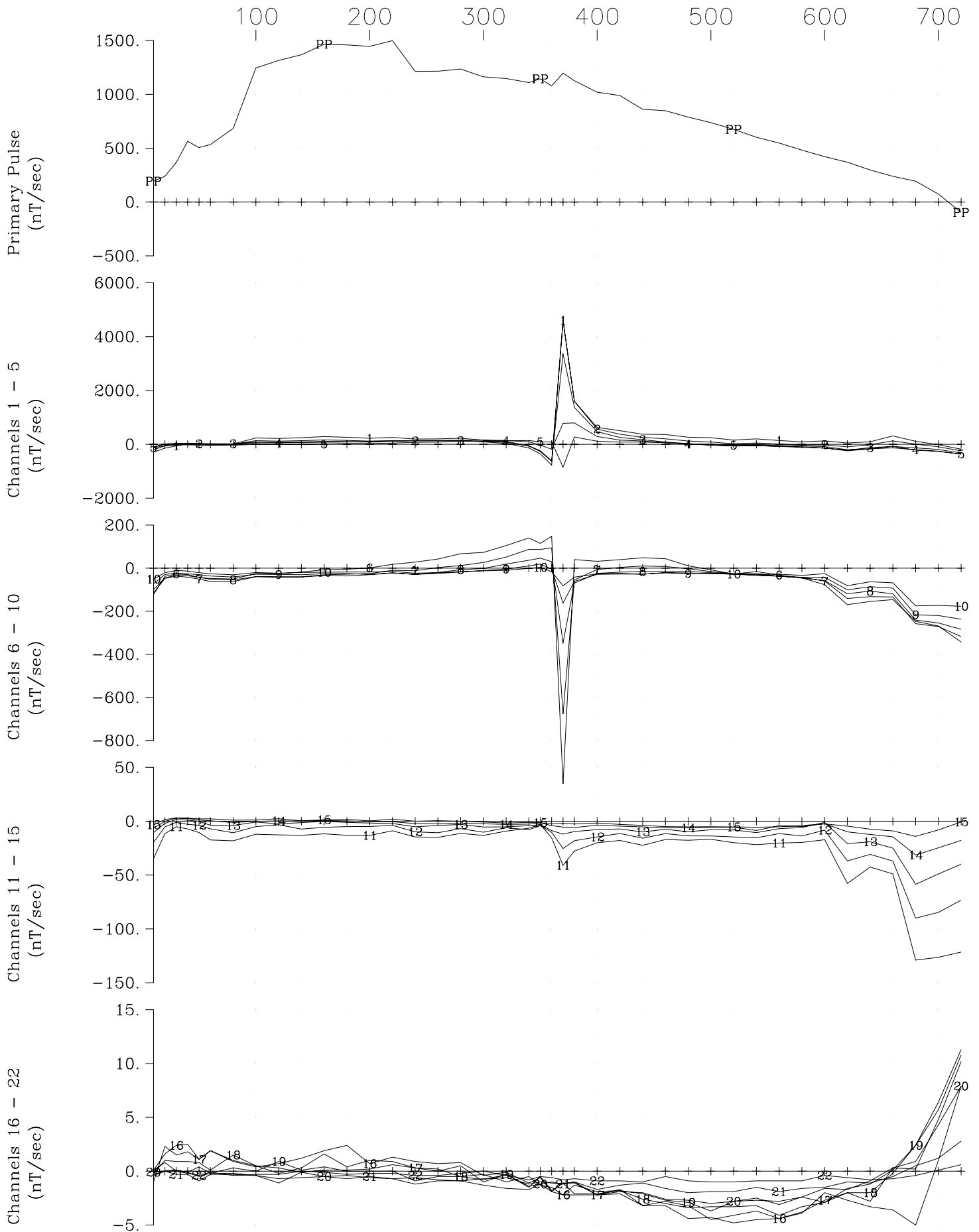




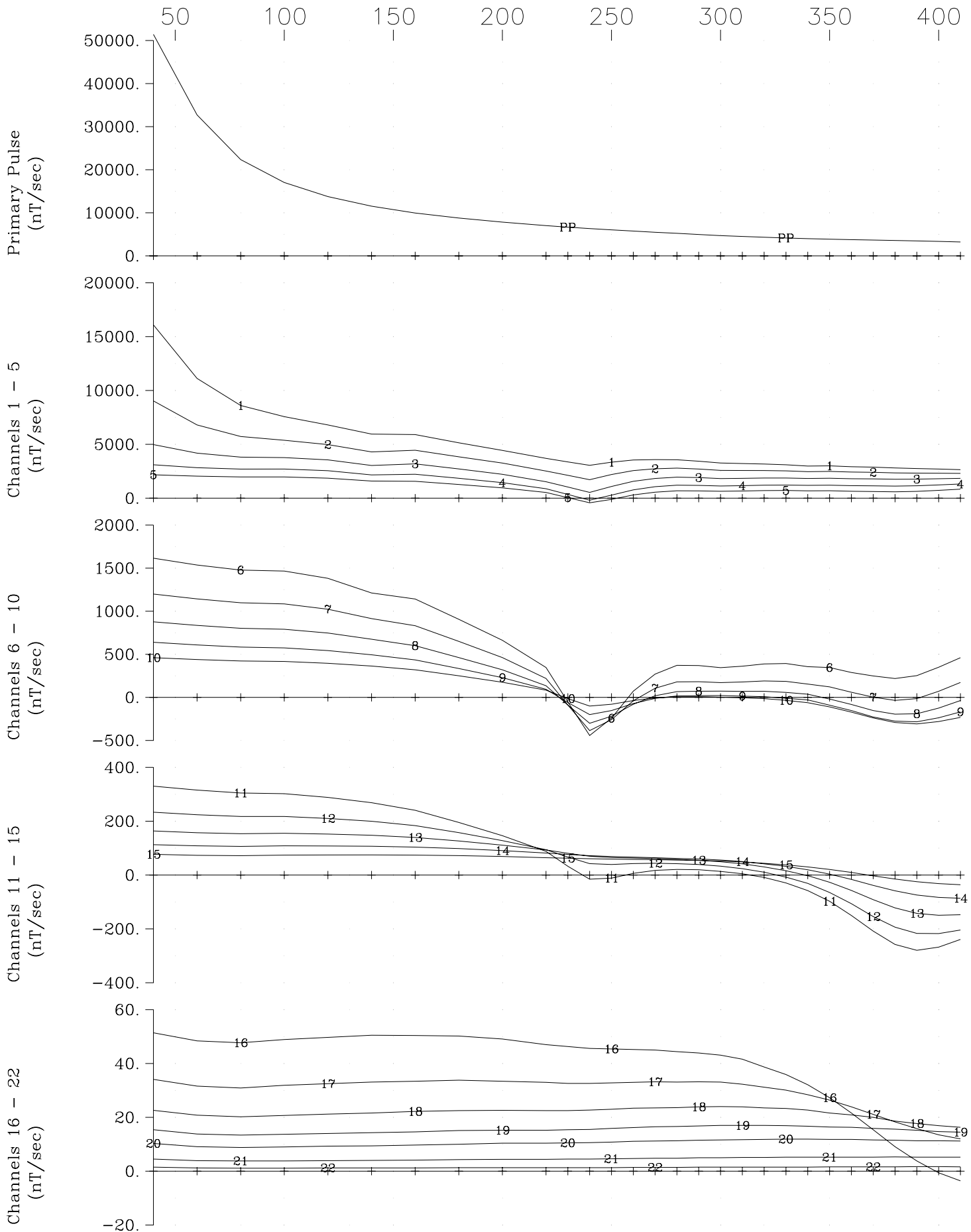
Rio Tinto Exploration Crystal Lake
 Loop 14CLS2MOD, Hole 15CL0006 Z Component
 Crone Geophysics & Exploration Ltd.



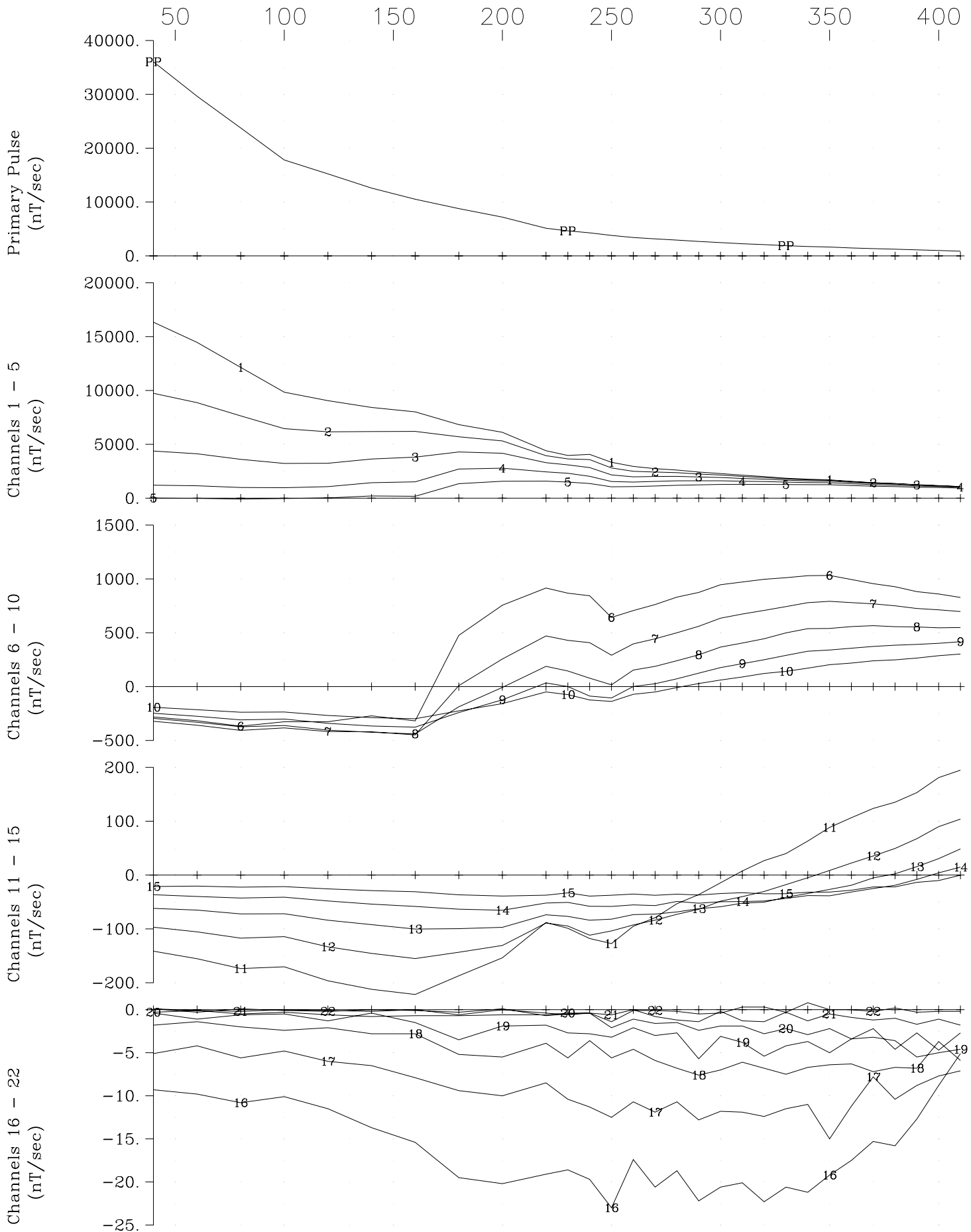
Rio Tinto Exploration Crystal Lake
 Loop 14CLS2MOD, Hole 15CL0006 X Component
 Crone Geophysics & Exploration Ltd.



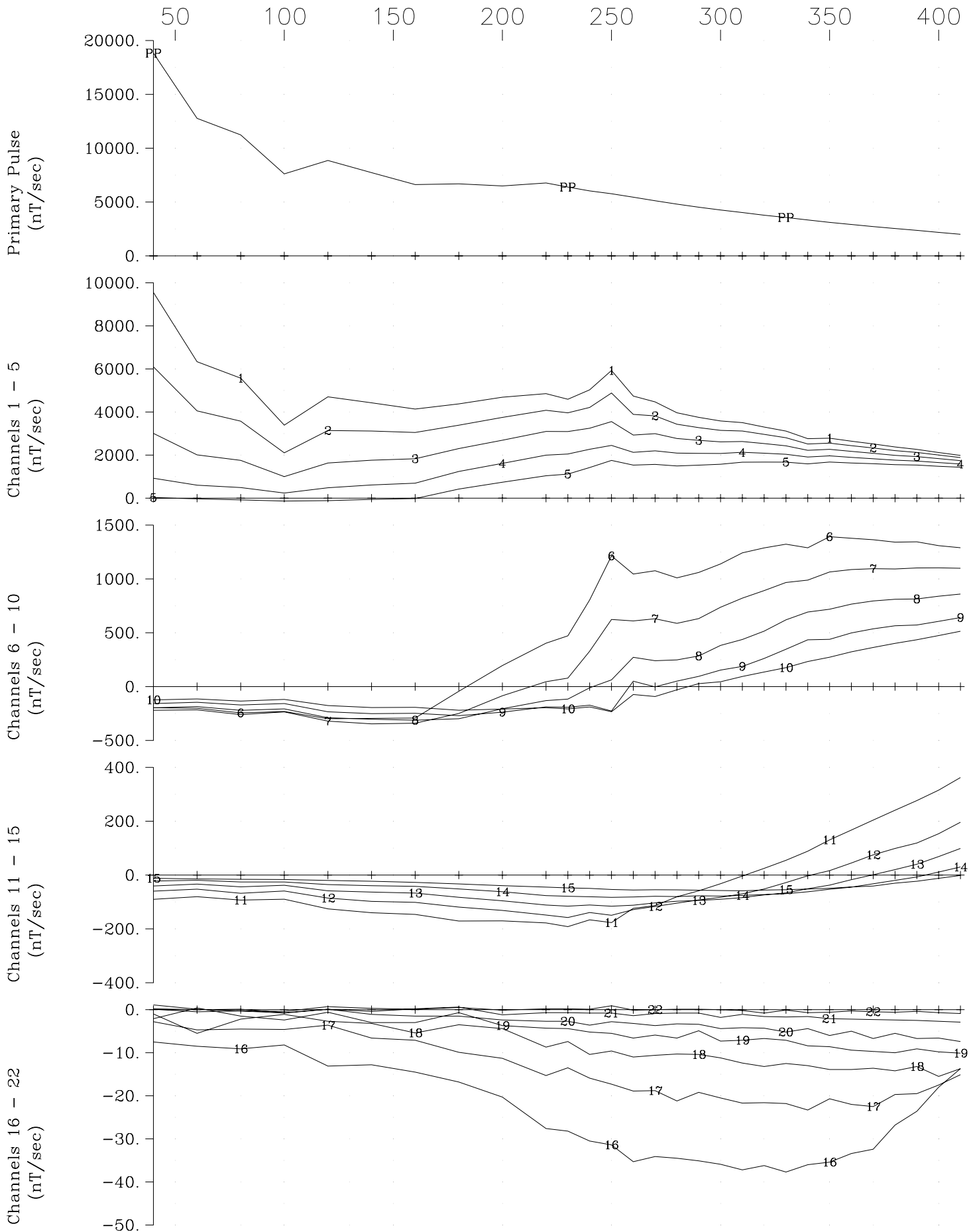
Rio Tinto Exploration Crystal Lake
 Loop 14CLS2MOD, Hole 15CL0006 Y Component
 Crone Geophysics & Exploration Ltd.



Rio Tinto Exploration Crystal Lake
 Loop 15_ISOTALO_01, Hole 15CL0008 Z Component
 Crone Geophysics & Exploration Ltd.



Rio Tinto Exploration Crystal Lake
 Loop 15_ISOTALO_01, Hole 15CL0008 X Component
 Crone Geophysics & Exploration Ltd.

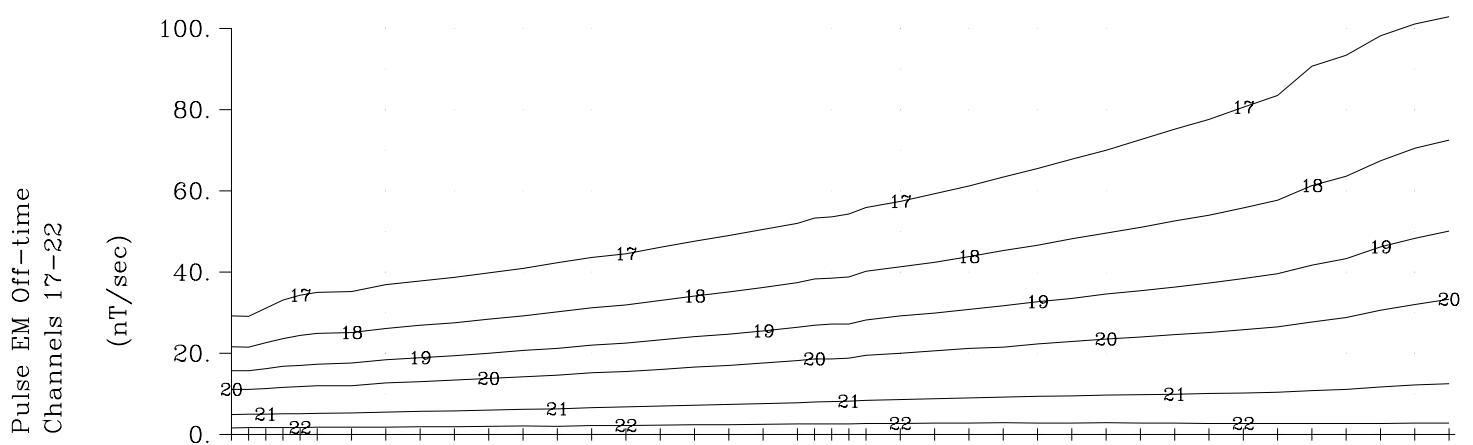
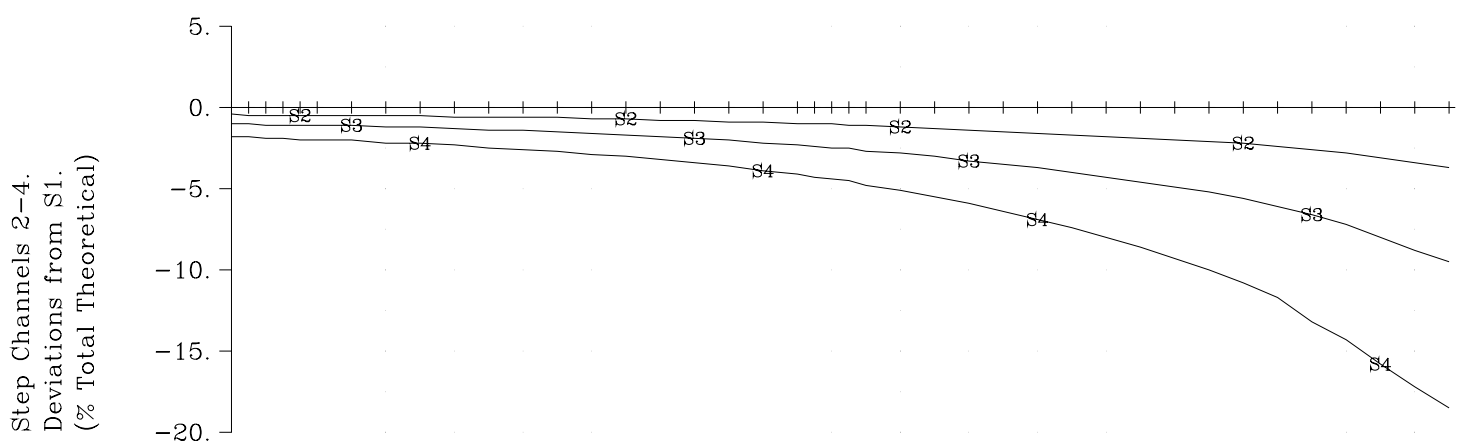
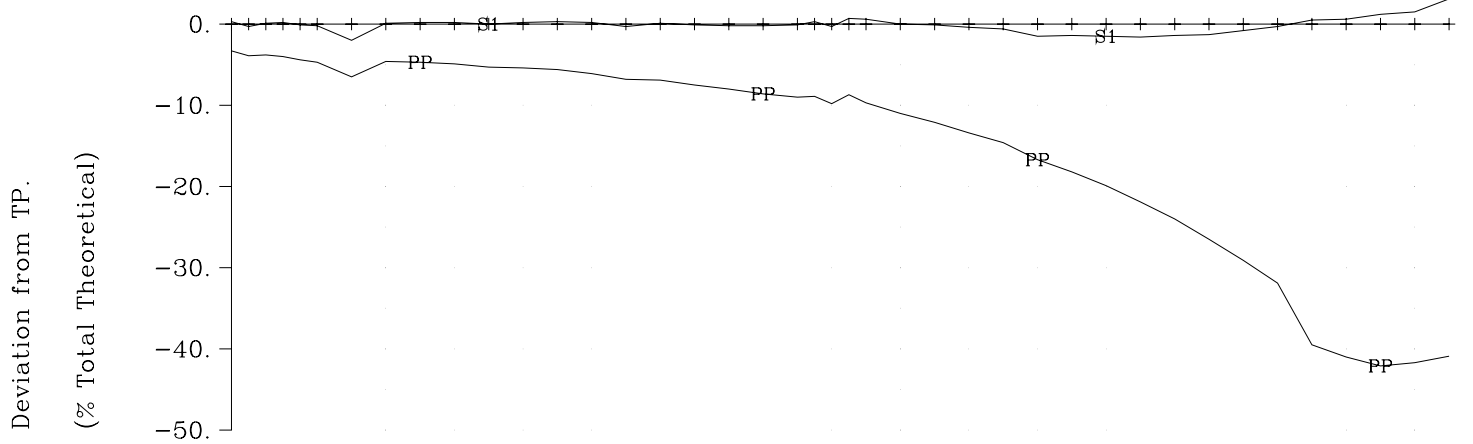
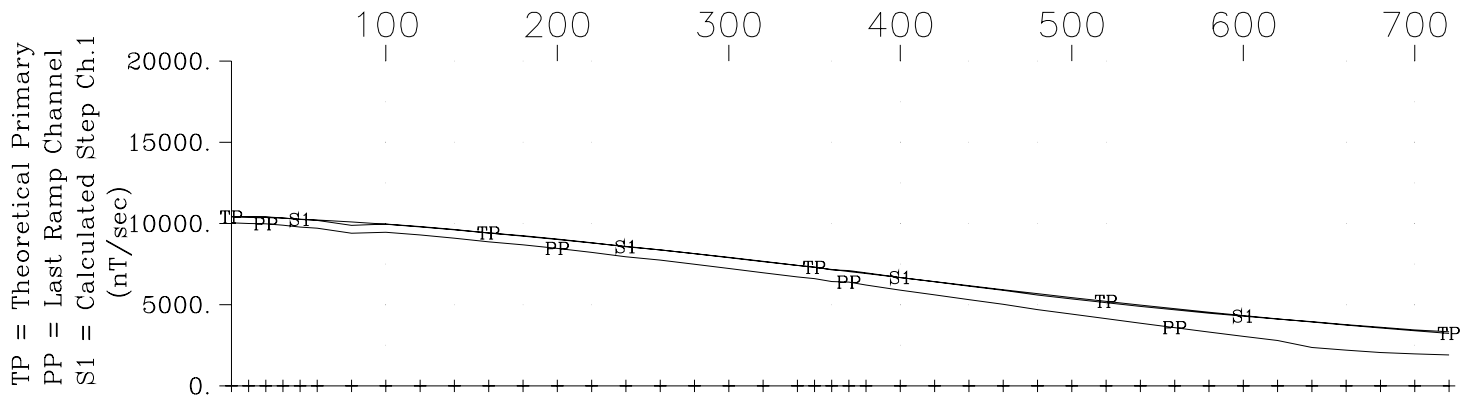


Rio Tinto Exploration Crystal Lake
 Loop 15_ISOTALO_01, Hole 15CL0008 Y Component
 Crone Geophysics & Exploration Ltd.

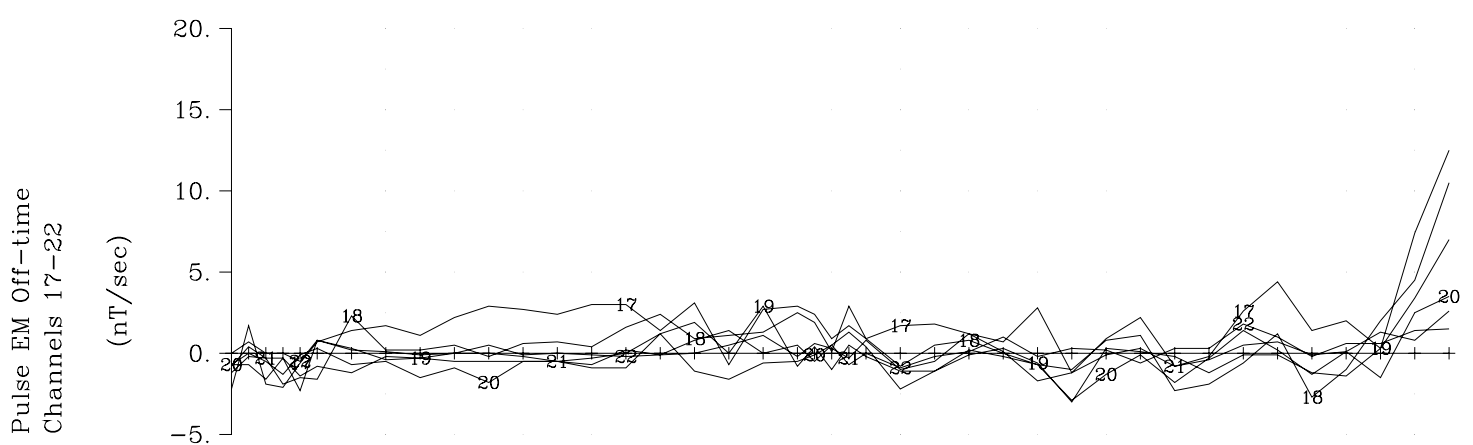
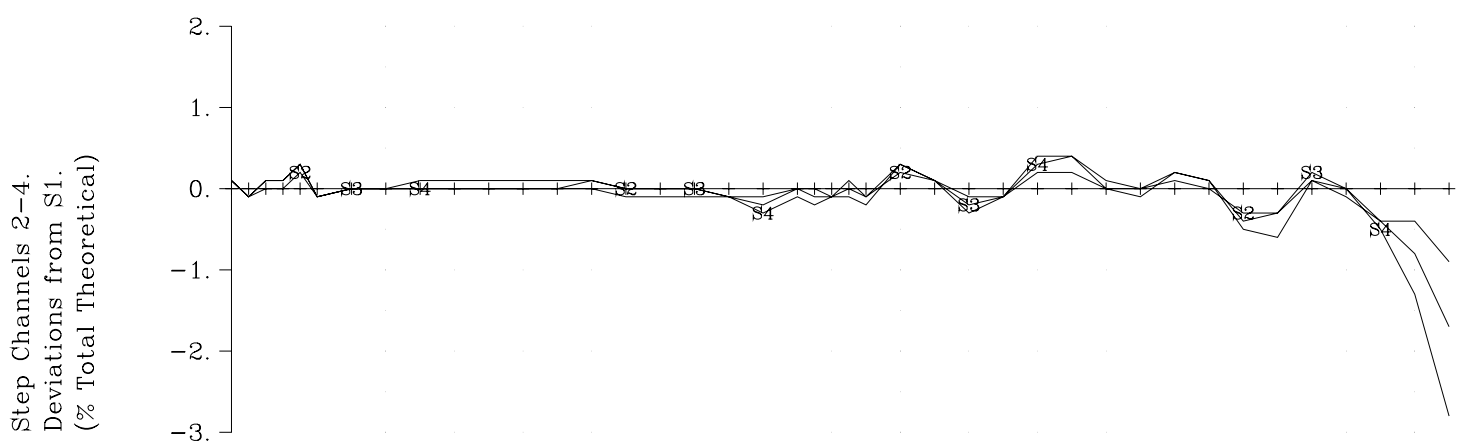
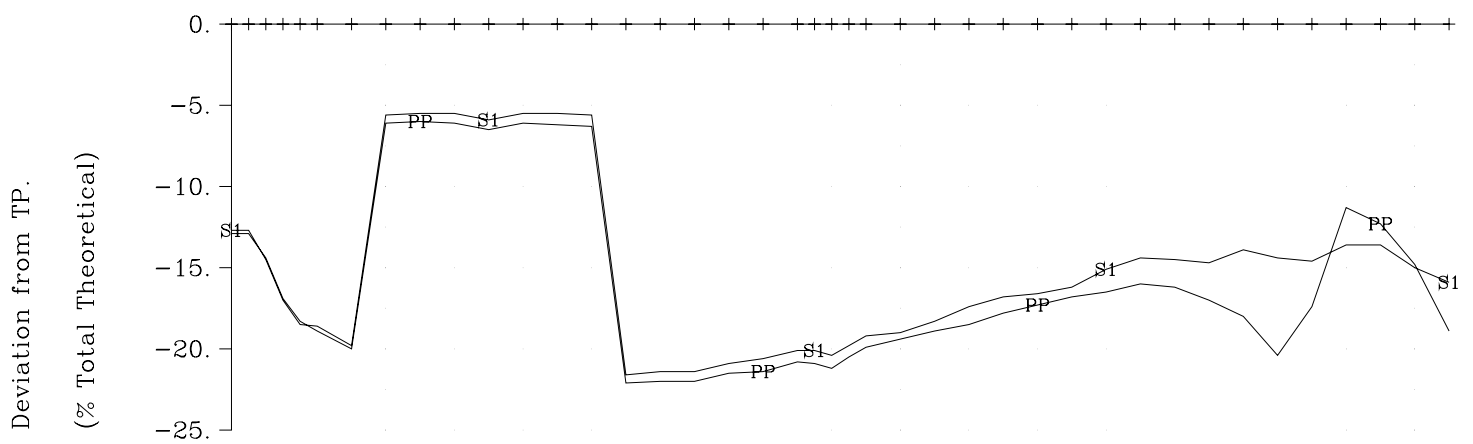
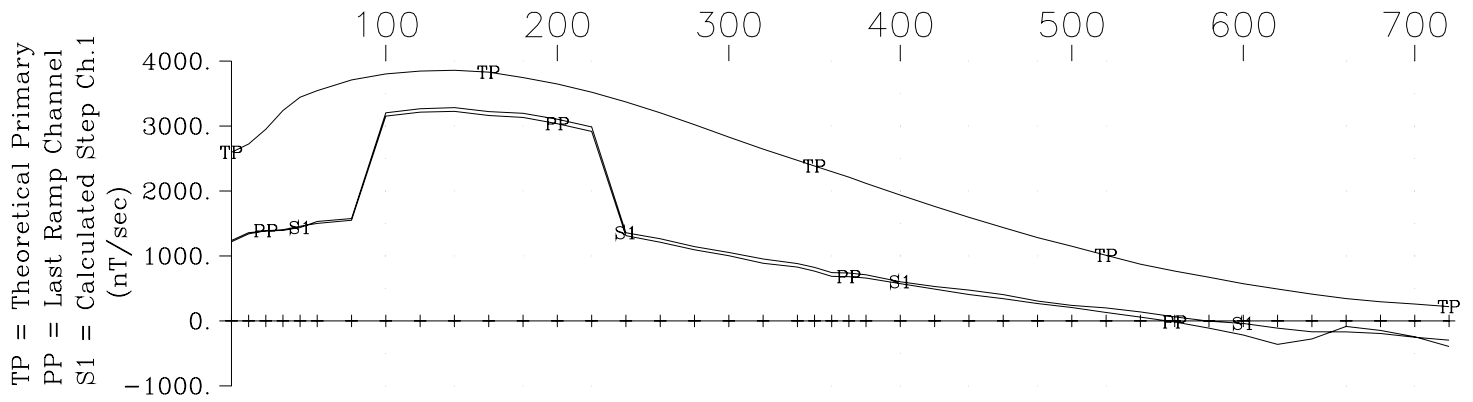


APPENDIX 3: STEP RESPONSE PROFILES



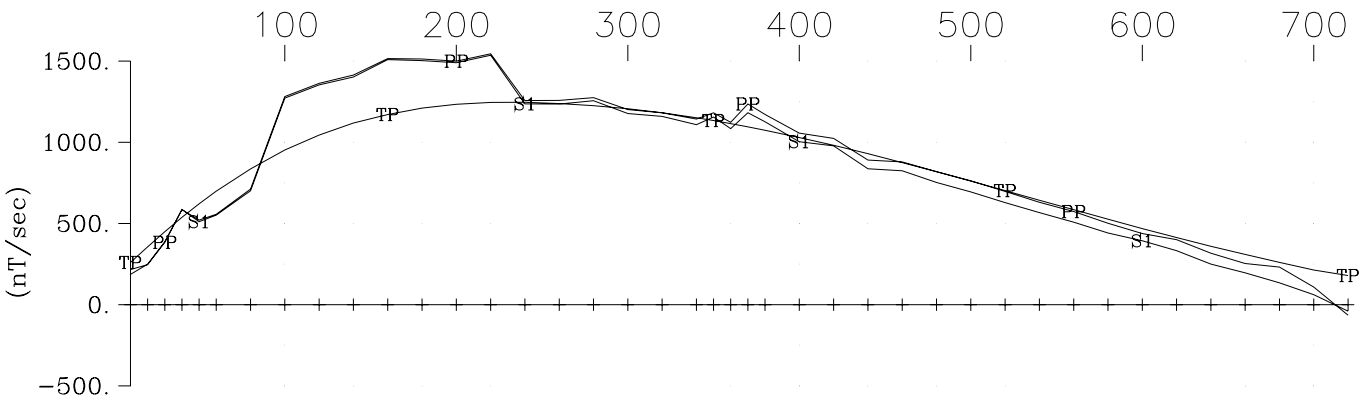


Rio Tinto Exploration Crystal Lake
 Loop 14CLS2MOD, Hole 15CL0006 Z Component
 Crone Geophysics & Exploration Ltd.

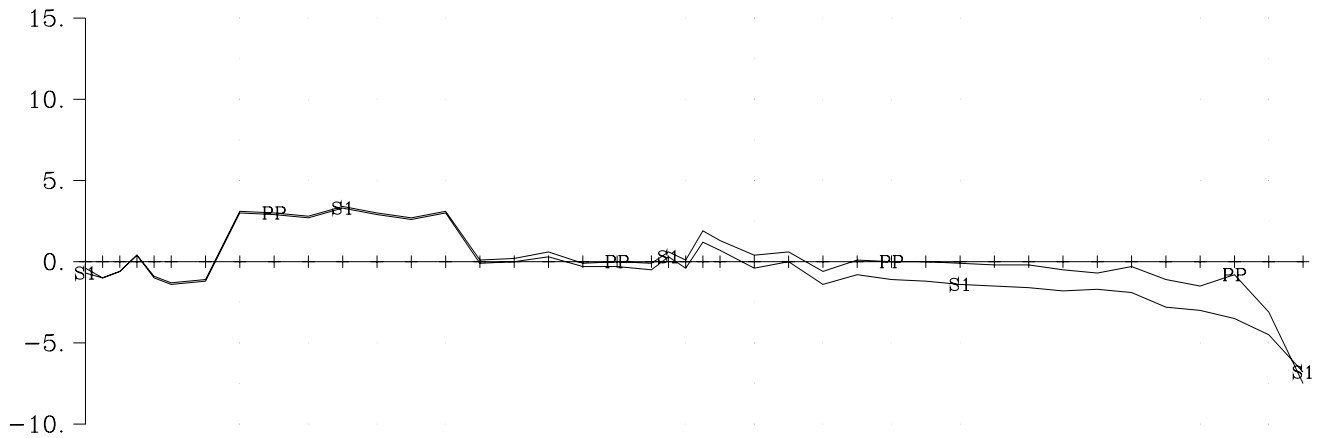


Rio Tinto Exploration Crystal Lake
 Loop 14CLS2MOD, Hole 15CL0006 X Component
 Crone Geophysics & Exploration Ltd.

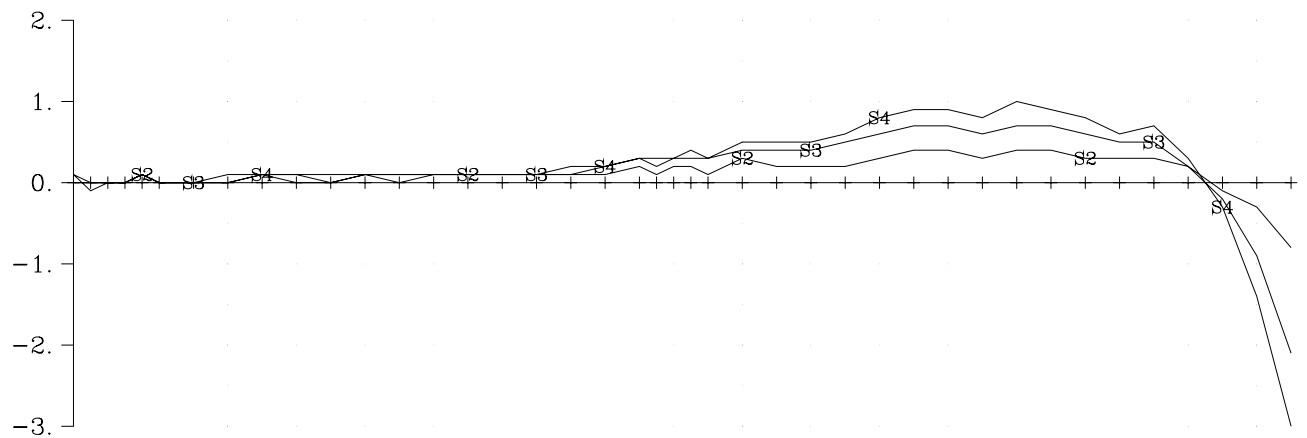
TP = Theoretical Primary
 PP = Last Ramp Channel
 S1 = Calculated Step Ch.1



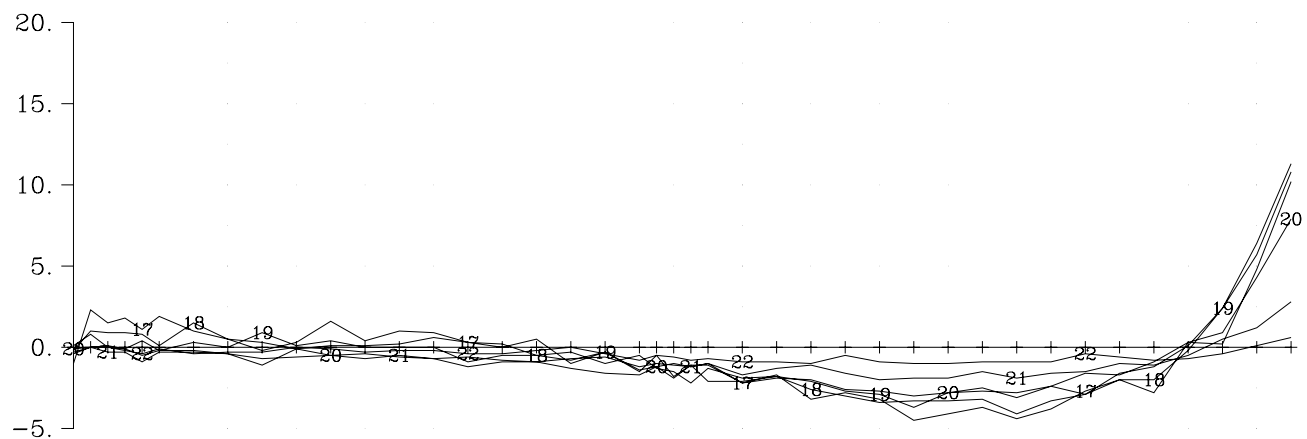
Deviation from TP.
 (% Total Theoretical)



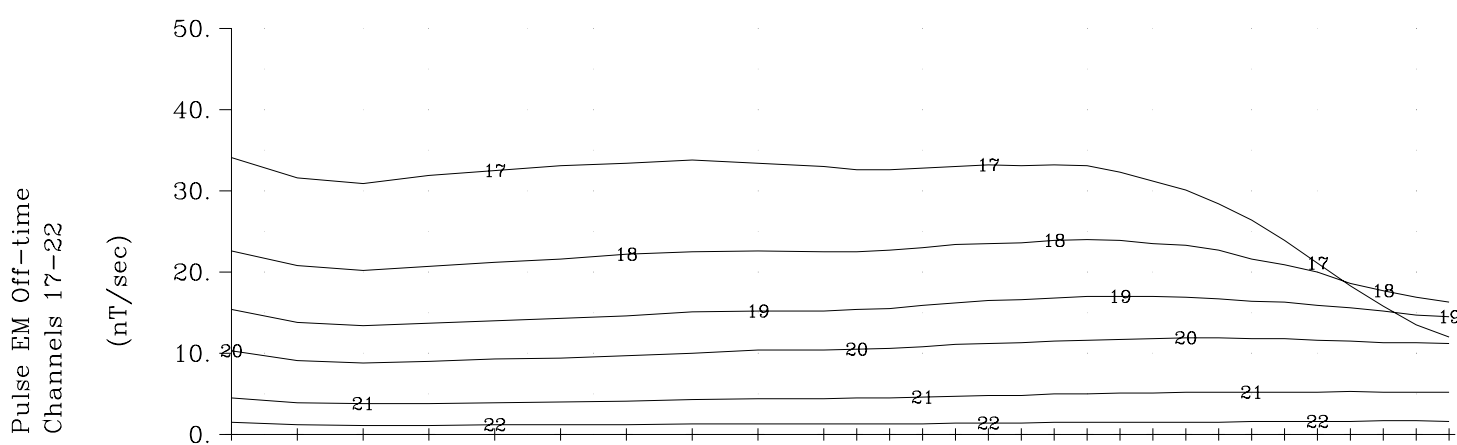
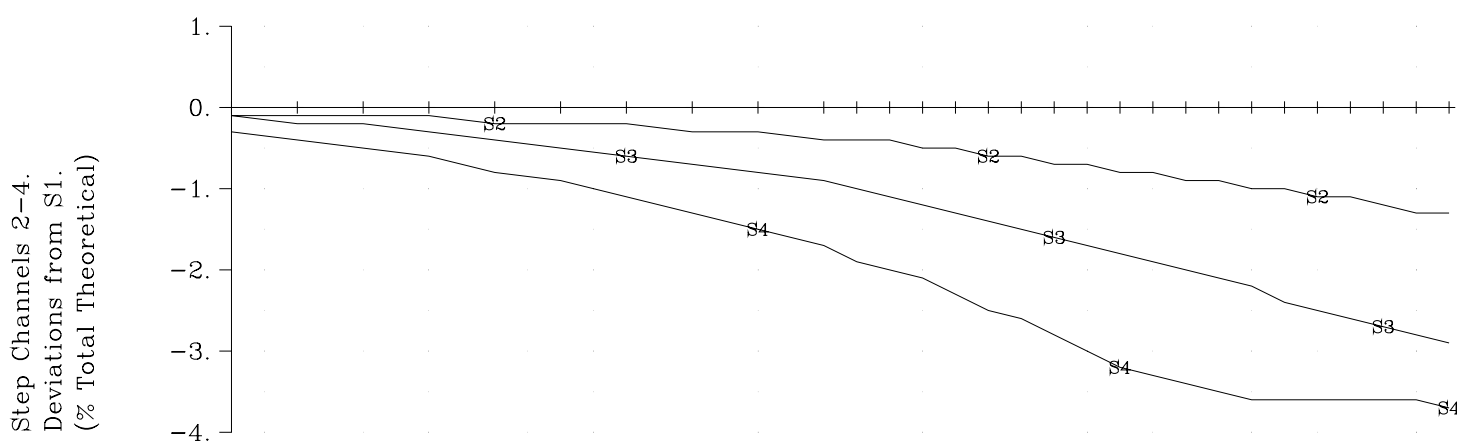
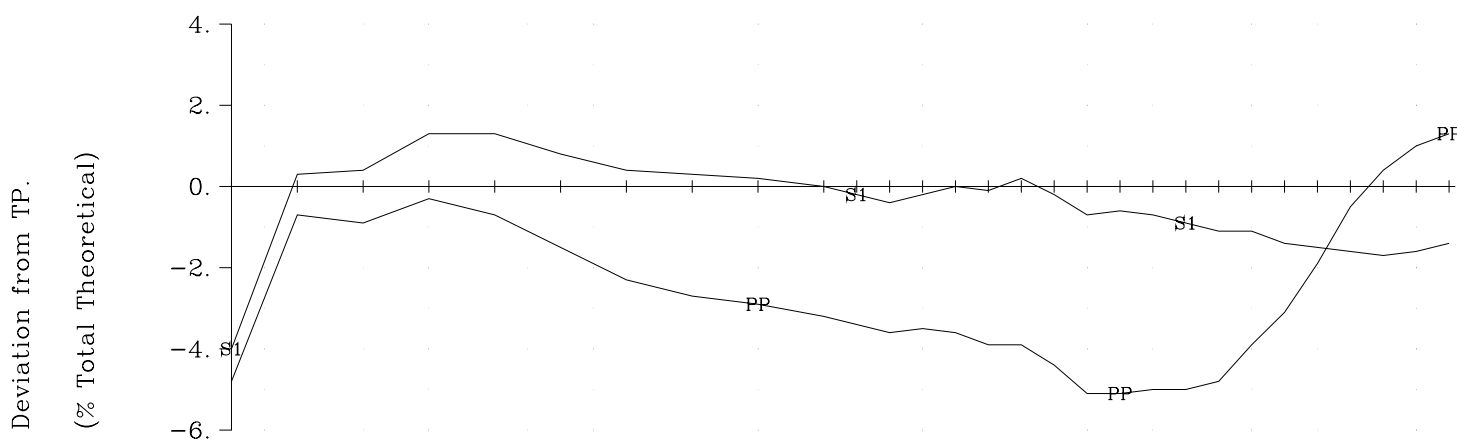
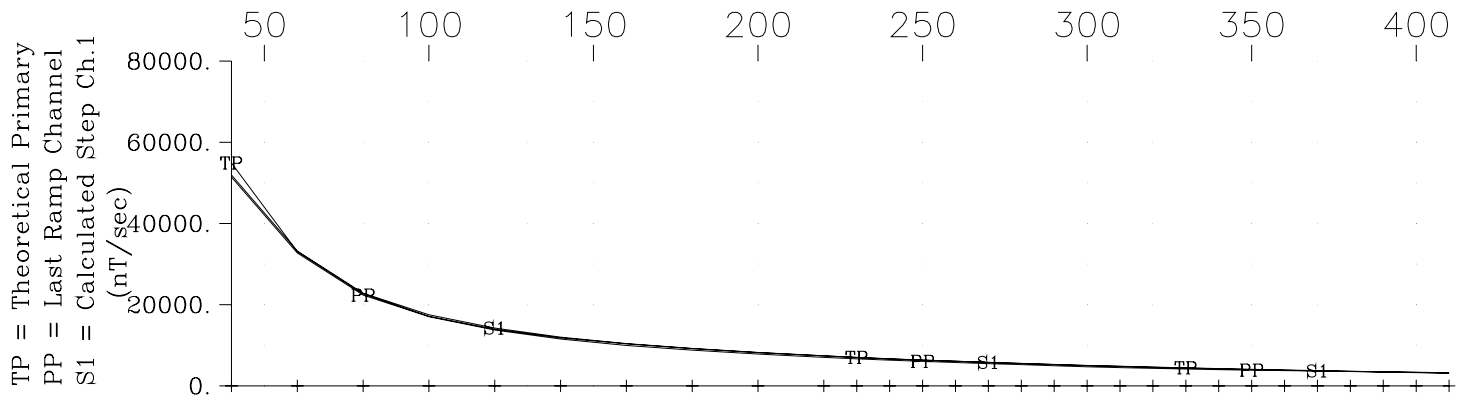
Step Channels 2-4.
 Deviations from S1.
 (% Total Theoretical)



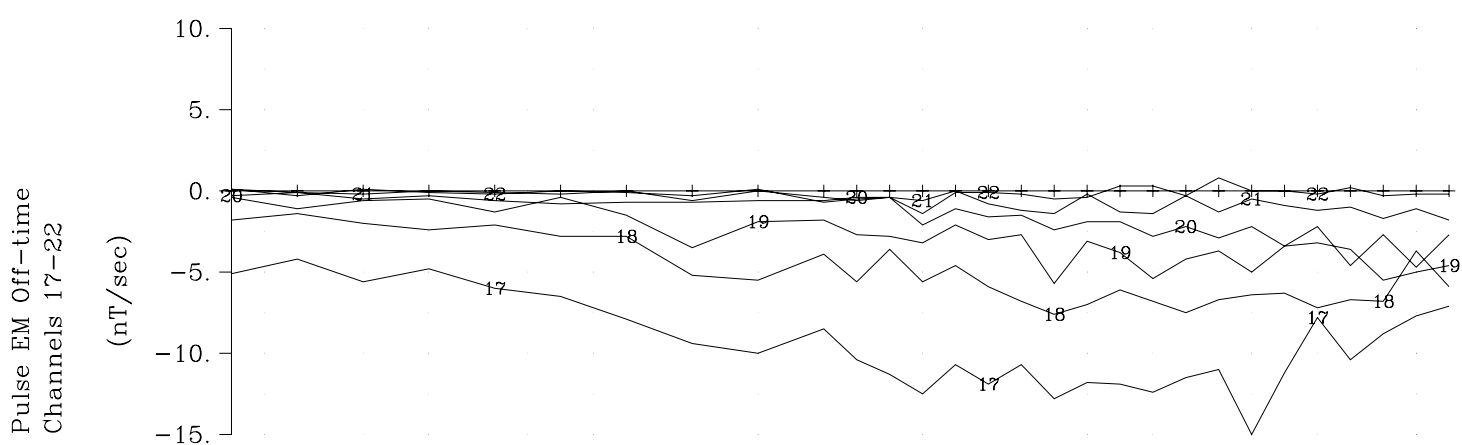
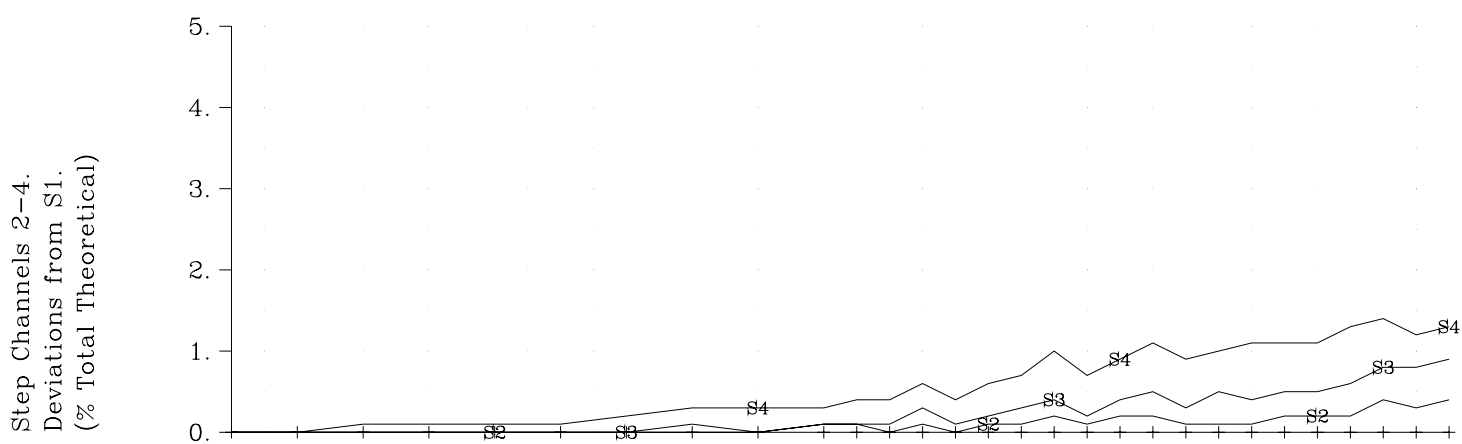
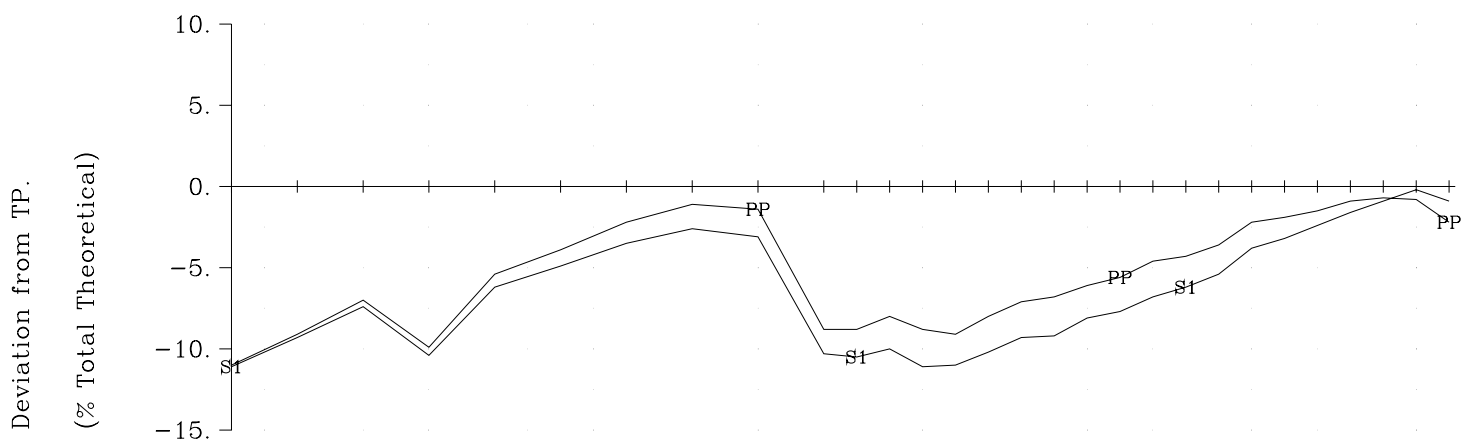
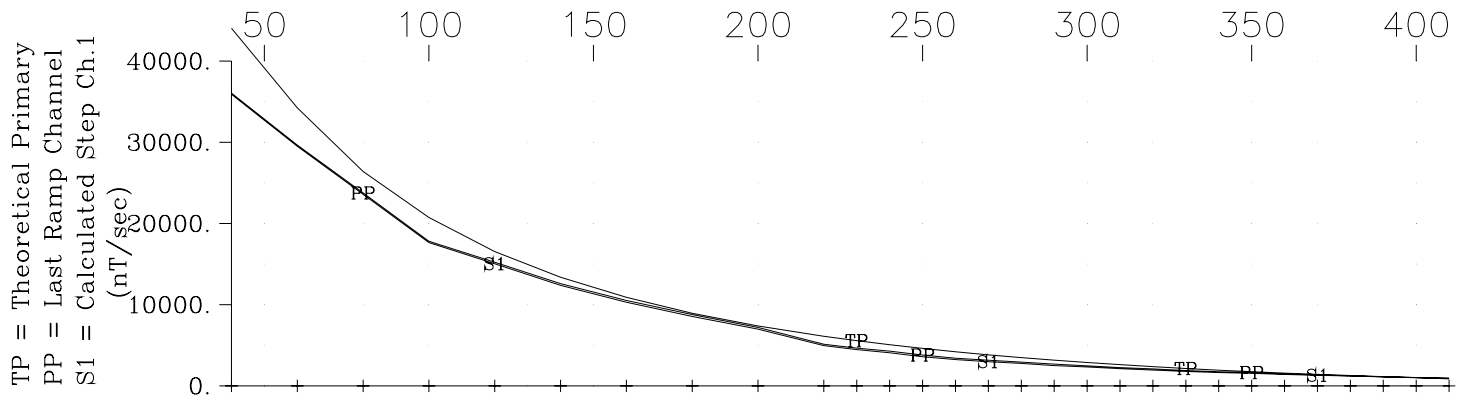
Pulse EM Off-time
 Channels 17-22
 (nT/sec)



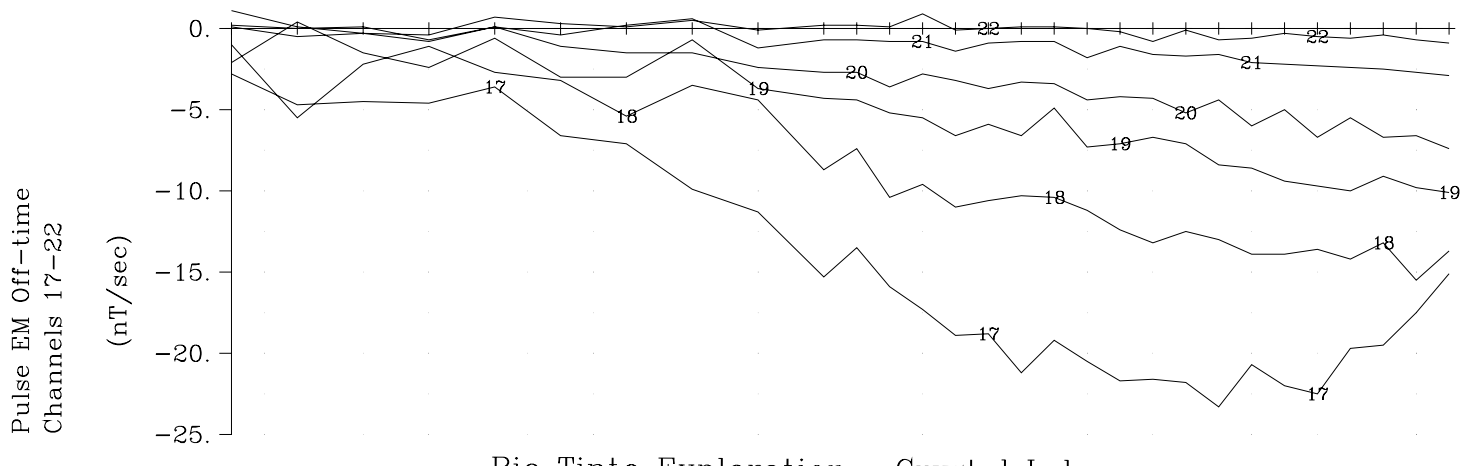
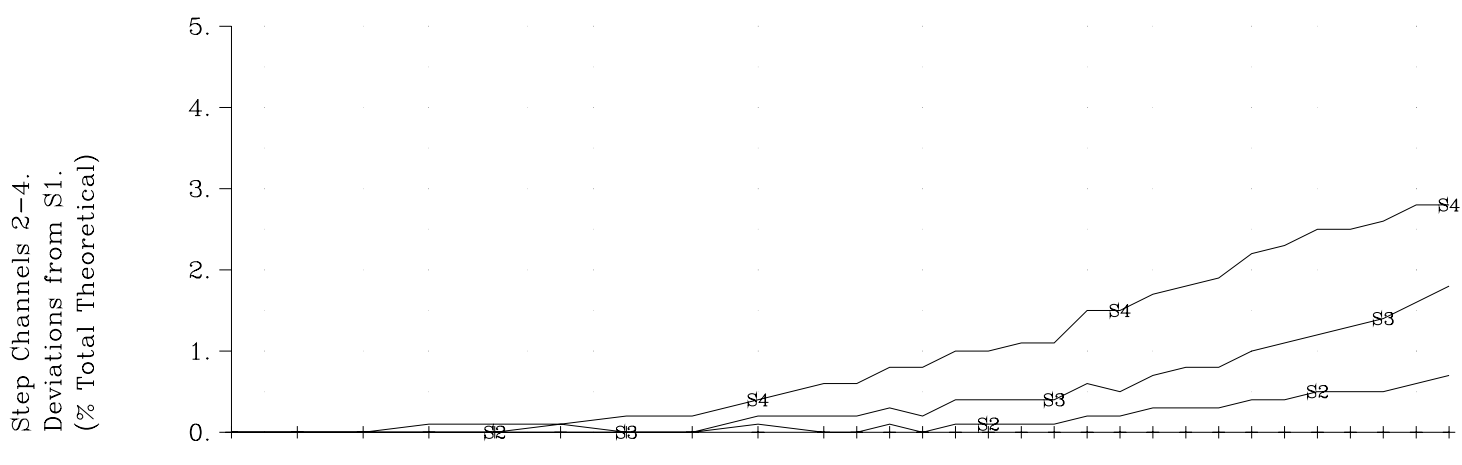
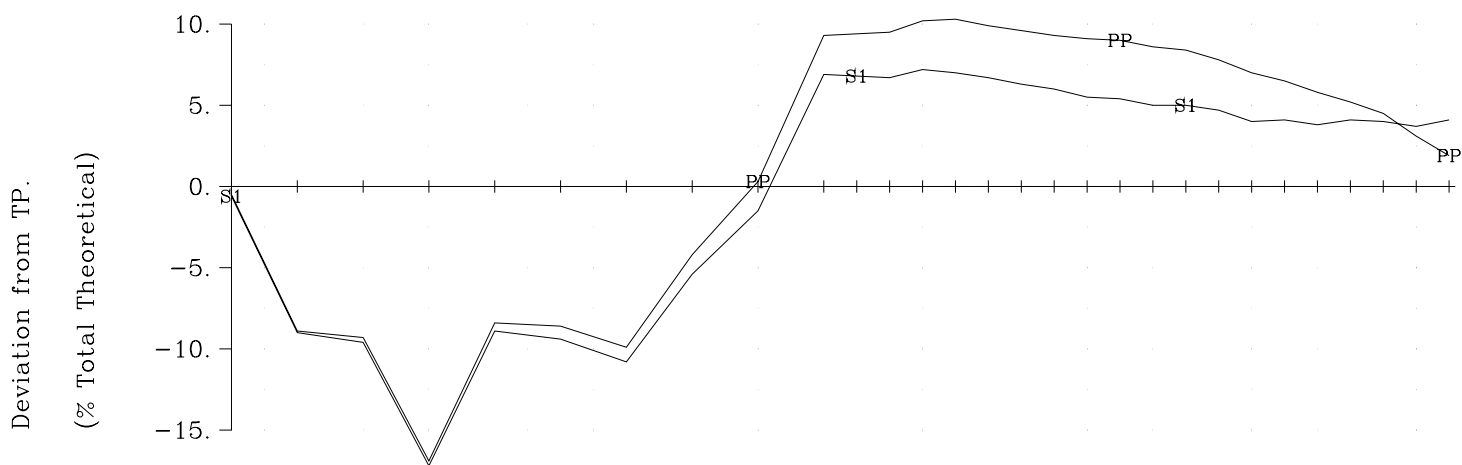
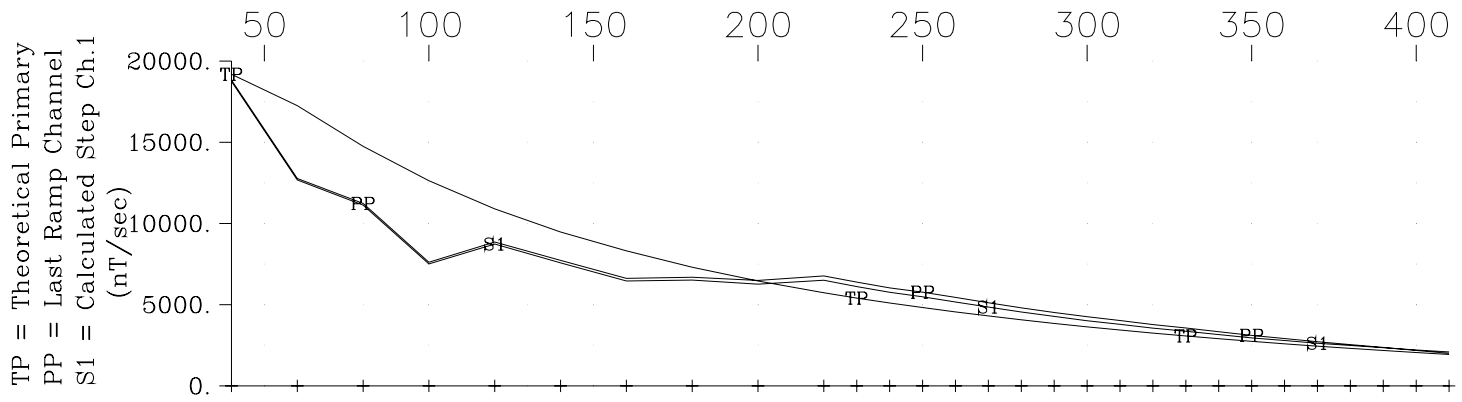
Rio Tinto Exploration Crystal Lake
 Loop 14CLS2MOD, Hole 15CL0006 Y Component
 Crone Geophysics & Exploration Ltd.



Rio Tinto Exploration Crystal Lake
 Loop 15_ISOTALO_01, Hole 15CL0008 Z Component
 Crone Geophysics & Exploration Ltd.



Rio Tinto Exploration Crystal Lake
 Loop 15_ISOTALO_01, Hole 15CL0008 X Component
 Crone Geophysics & Exploration Ltd.



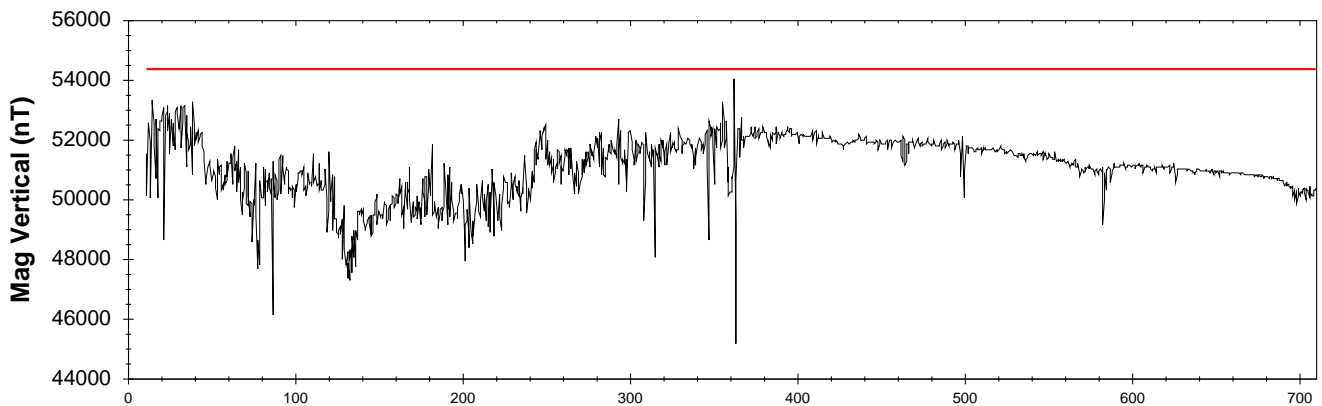
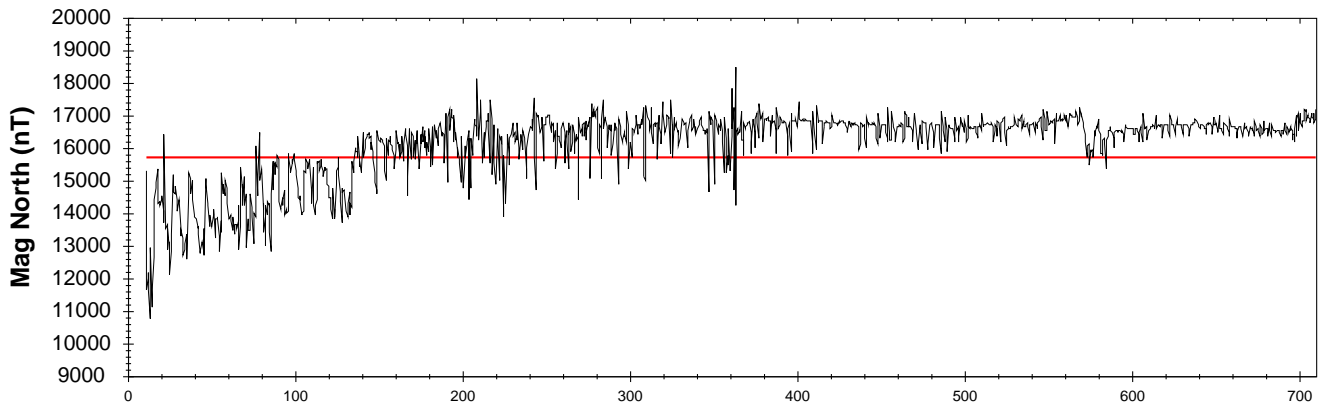
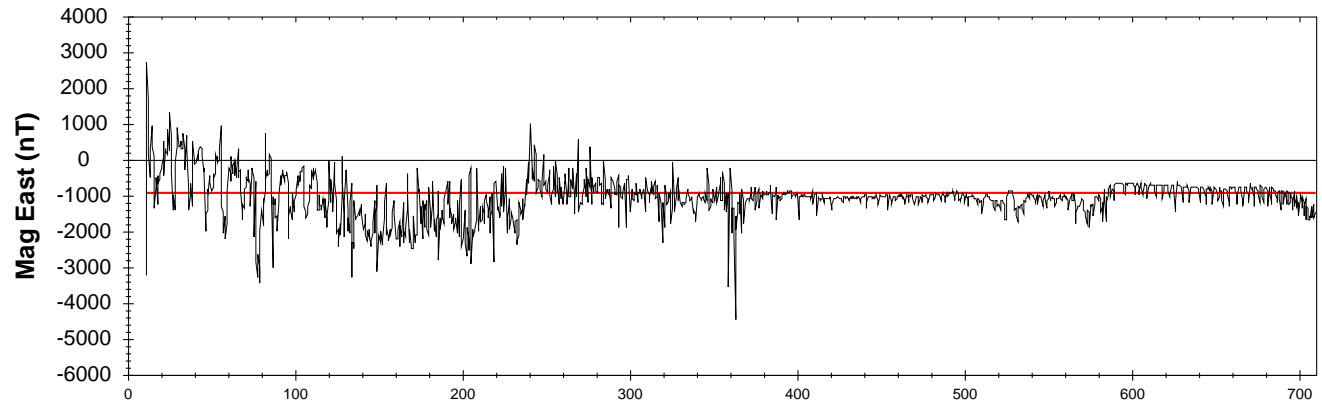
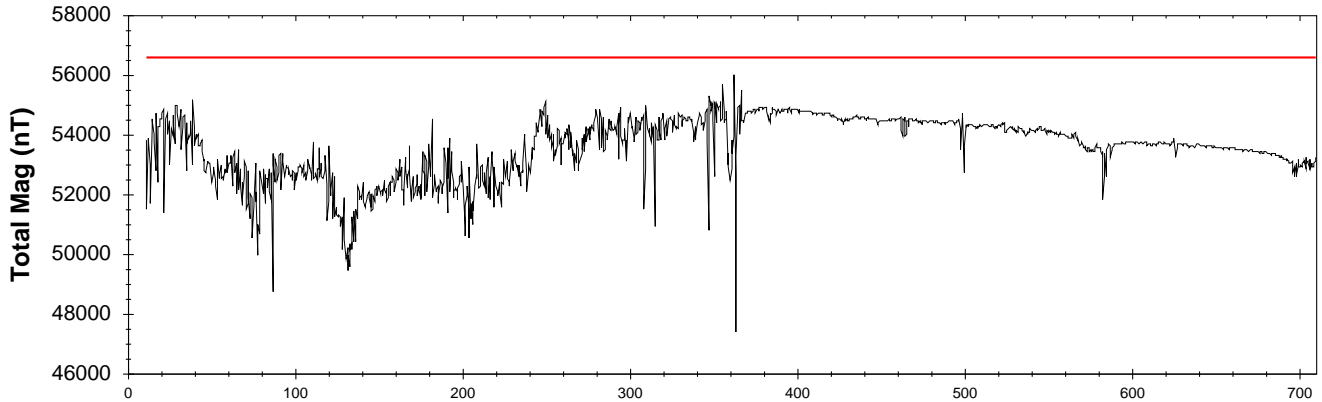
Rio Tinto Exploration Crystal Lake
 Loop 15_ISOTALO_01, Hole 15CL0008 Y Component
 Crone Geophysics & Exploration Ltd.



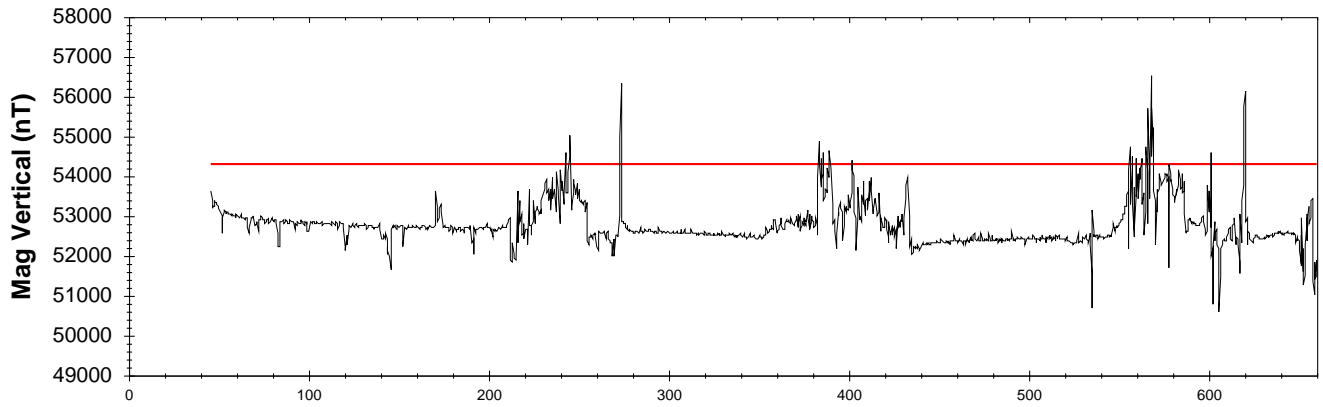
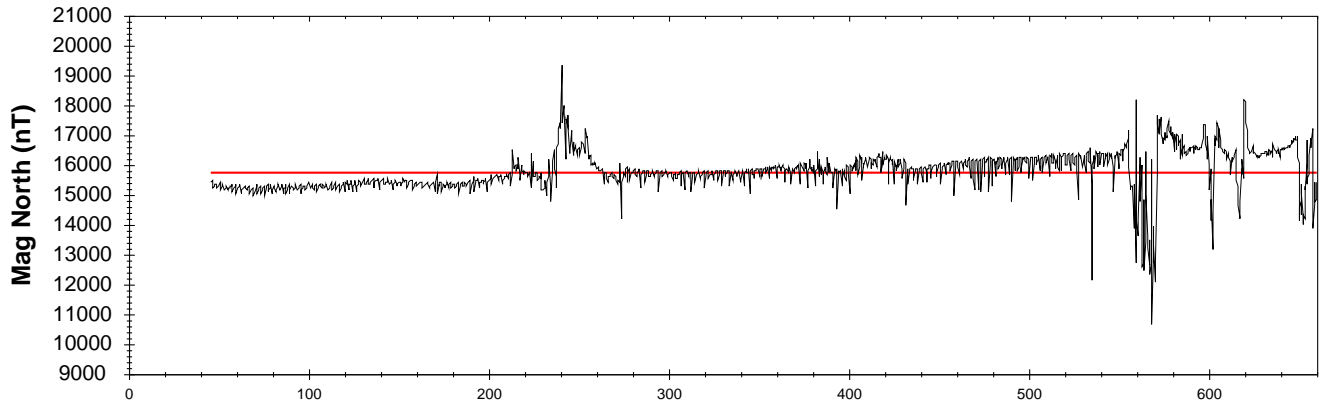
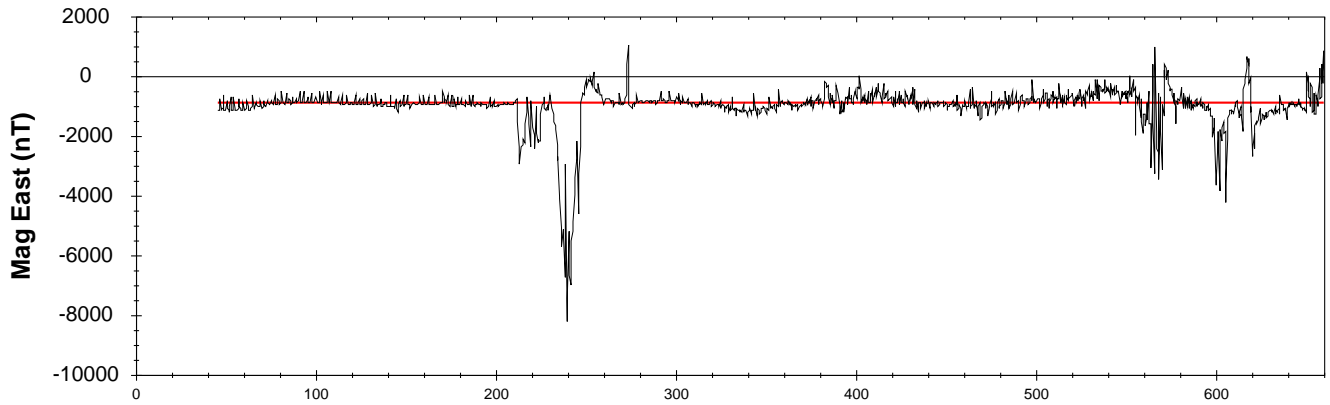
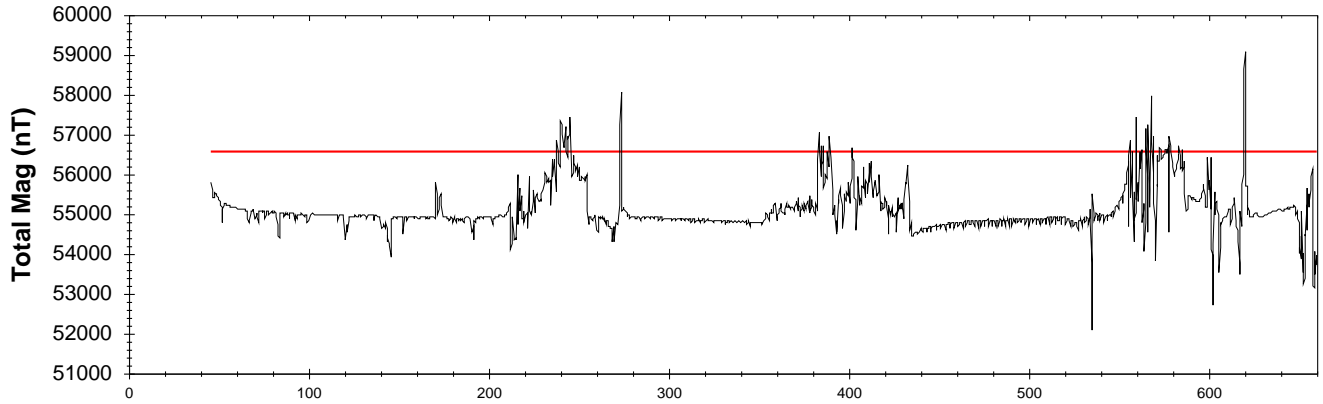
APPENDIX 4: BHMAG DATA PROFILES



Borehole Magnetic Survey
15CL00006 **Crystal Lake** **Rio Tinto Exploration**
Crone Geophysics & Exploration Ltd.



Borehole Magnetic Survey
15CL0007 Crystal Lake Rio Tinto Exploration
Crone Geophysics & Exploration Ltd.



Borehole Magnetic Survey
15CL0008 **Crystal Lake** **Rio Tinto Exploration**
Crone Geophysics & Exploration Ltd.

