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# Kasabonika Minerals 2015 Drilling Program

Thunder Bay Mining District  
NTS 53H/9  
Assessment Report



Tim Hannon  
Summit Exploration Services Ltd  
January 15, 2016

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**INTRODUCTION**

From February to June 2015, a two-phase diamond drilling program was conducted on mineral properties held by Kasabonika Minerals Corporation, within Kasabonika Lake First Nation Traditional Lands. The project area is approximately 590km northwest of Thunder Bay, Ontario, within the Thunder Bay Mining District, on NTS Mapsheet 53 H/9 (Shibogama Lake).

The program described in this report consisted of 9 “BTW” core holes; 5 holes totalling 436.73m in Phase 1 (February-March) and a further 4 holes totalling 389.99m in Phase 2 (June). All of the holes were drilled on claims 4262682, 4265447, and 3008869.

The project was undertaken, in part, in order for community members to gain administrative and technical experience in the operation of an exploration drilling project, in winter and summer. During the summer portion of the project, six community members gained valuable hands-on experience at the drill, as part of a hands-on training course.

In terms of mineral exploration, the primary goal of the project was to test magnetic anomalies observed at William Bay and Wolverine Bay. Two previously identified kimberlite targets (Johnson, 2008) were also drill tested. Targets were selected in part for ease of access, due to proximity to the existing winter access road.

The results of this program, as well as conclusions and recommendations for further work, are outlined in the following report.

**PROPERTY LOCATION, DESCRIPTION, and ACCESS**

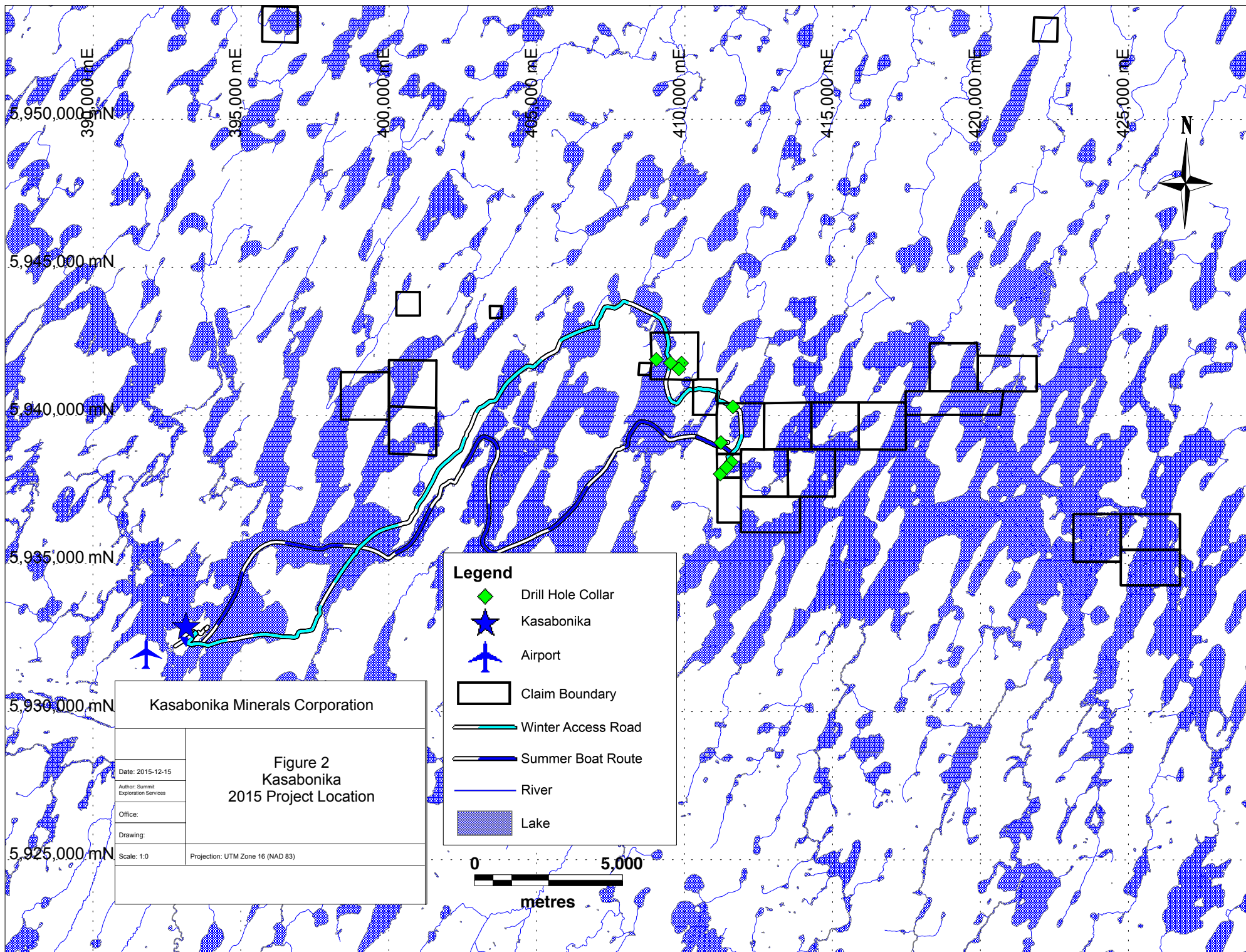
The project area lies within Kasabonika Lake First Nation’s (KLFN) Traditional Territory, approximately 590km northwest of Thunder Bay, Ontario, and within the Thunder Bay Mining District. The location is indicated in Figures 1 and 2.

Kasabonika Minerals Corporation (KMC) currently holds 24 mineral claims in the area north and east of the town. The claims are listed in Table 1. The drilling program which is the subject of this report was limited to claims 4262682, 4265447, and 3008869.

The project area is located approximately 19km WNW of the town of Kasabonika. Access to the drill sites was by ice road during Phase 1 (winter) and by boat during Phase 2 (summer).



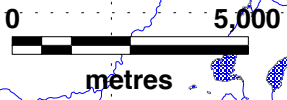
Figure 1: General Location Map



<b>Kasabonika Minerals Corporation</b>	
Date: 2015-12-15	<b>Figure 2</b> <b>Kasabonika</b> <b>2015 Project Location</b>
Author: Summit Exploration Services	
Office:	
Drawing:	
Scale: 1:0	Projection: UTM Zone 16 (NAD 83)

**Legend**

- ◆ Drill Hole Collar
- ★ Kasabonika
- ✈ Airport
- Claim Boundary
- Winter Access Road
- Summer Boat Route
- River
- Lake



The town of Kasabonika is serviced year-round by air from Sioux Lookout and Thunder Bay (daily scheduled flights, and charters), and by winter road during the months of February-March. There is no all-season road access.

### **REGIONAL GEOLOGY**

The project area is located within the Sachigo Subprovince (Superior Province of the Canadian Shield). The Sachigo Subprovince has been subdivided into a series of fault-bounded crustal tectonic domains and terranes.

The KMC claims lie within the Neoproterozoic Oxford-Stull Terrane, a part of the Sachigo Subprovince of the Superior Province of the Canadian Shield. The northern boundary of the Oxford-Stull Terrane is bounded by the North Kenyon Fault, which marks the southern boundary of the Northern Superior Superterrane. The southern limit of the Oxford-Stull Terrane is along an inferred boundary within the Wunnummin Lake greenstone belt (Stull-Wunnummin Fault).

The claim block covers part of the Kasabonika - McFaulds greenstone belt, which is known to host several Cu-Zn VMS (volcanogenic massive sulphide) and magmatic Ni-Cu-PGE occurrences.

### **PROPERTY GEOLOGY**

The project area is located at the western end of the Kasabonika - McFaulds greenstone belt. The Kasabonika - McFaulds greenstone belt is surrounded by felsic intrusives. Poor bedrock exposure (outcrop) in the area means that much of the published geological information is based upon interpretations of regional airborne geophysical surveys. Goldcorp carried out geological mapping in 2008, which confirmed the geology outlined by Thurston et al (1971). Figure 3 is an excerpt from an OGS published bedrock geology map (1991).

The claim block is underlain by a NW-SE trending belt of mafic to ultramafic volcanic sequence. These rocks are exposed as basaltic flows, often with flow-top breccias and occasional ash tuffs.

From Penczak, 2009:

*The central belt of volcanic rocks is flanked both to the north and south by high-grade paragneiss composed largely of quartz-feldspar-biotite. The gneisses south of the volcanics are commonly migmatitic, intruded by pegmatite dykes, and may locally be granitic in origin. The southern gneisses are also commonly highly strained and cataclasites are locally common. The aeromagnetic patterns, combined with the presence of cataclasites, outline a major NW-SE trending shear zone about 3 km south*

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*of the gneiss-volcanic contact. Although neither the northern nor southern gneiss-volcanic contact is exposed, the abrupt change in the aeromagnetic pattern in their vicinity suggests they are sharp, potentially faulted contacts.*

*The west-central portion of the claim block is partially underlain by two granitoid intrusions, a roughly circular, 5 km wide magnetic granite and an oval, roughly 1x3 km, pluton with a more dioritic composition. Two plutons are exposed within the paragneisses flanking the claims; a major granitoid body about 10 km across occurs 2 km south of the central claims and the margins of another pluton are exposed ~3 km north of the eastern claims.*

*The metamorphic grade in the paragneiss belts is through to be amphibolite grade based on the presence of minor garnets. The metamorphic grade of the volcanic rocks is upper greenschist to lower amphibolite grade.*

## **HISTORY**

The area of the KMC claims has been the subject of limited exploration activity, some conducted over large areas which include parts or all of the current claim block.

- 1971: geological mapping (Preliminary Map P0713), Ontario Department of Mines and Northern Affairs, (Thurston et al, 1971).
- 2002: government funded till sampling program covered part of the claim block (Stone, 2002).
- 2005 and 2007: KLFN prospecting, mapping, and soil sampling throughout the Kasabonika-Shibogama lakes area. In total approximately 500 soil samples were collected.
- 2007: 2,131 line km airborne magnetic and VLF-EM survey on behalf of KLFN (Barrie, 2007).
- 2008, option agreement between KMC and Goldcorp, a ground magnetometer and HLEM survey, followed by geological mapping and soil sampling (Gibson & Associates, 2008).
- 2009, Goldcorp completed a 5 hole, 1447 meter diamond drilling program (Penczak, 2009),
- 2010, KMC ground magnetometer surveys, totalling approximately 25 line km (Mihelcic, 2010).



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### **CLAIM STATUS**

Active mining claims held 100% by Kasabonika Minerals Corporation and currently in good standing. Claim numbers, number of claim units, work required, and due dates as follows.

Claim Number	Units	Work Required	Due Date
4276310	4	\$1,600	10-Mar-17
4276311	4	\$1,600	10-Mar-17
4263745	16	\$6,400	13-Nov-16
4265446	16	\$6,400	13-Nov-16
4262684	16	\$6,400	13-Nov-16
4244994	1	\$400	04-Mar-17
4262682	16	\$6,400	13-Nov-16
4262283	6	\$2,400	13-Nov-16
4265447	16	\$6,400	13-Nov-16
3008869	4	\$1,600	17-Mar-17
4241741	8	\$3,200	30-Apr-16
3012541	16	\$6,400	06-Apr-17
3012542	16	\$6,400	06-Apr-16
4265448	15	\$6,000	13-Nov-16
3012545	16	\$6,400	06-Apr-16
3012543	16	\$6,400	06-Apr-17
3012544	16	\$6,400	06-Apr-16
4241745	16	\$6,400	30-Apr-16
4265450	16	\$6,400	13-Nov-16
4265449	15	\$6,000	13-Nov-16
4241732	16	\$3,504	30-Apr-16
4241733	15	\$6,000	30-Apr-16
4241734	15	\$6,000	30-Apr-16
<b>Totals</b>	<b>295</b>	<b>\$115,104</b>	

Table 1: Active KMC claims

### **DIAMOND DRILLING PROGRAM**

Phase 1 of the drilling campaign consisted of 5 “BTW” core holes and ran from February 11 to March 27, 2015. Phase 2 consisted of 4 core holes was completed from June 12-30 2015. A combined total for Phases 1 and 2 of 826.72 meters in 9 holes was drilled. Drilling was focused on two target areas: William Bay and near Wolverine Bay. Two previously identified kimberlite targets (Johnson, 2008) near the winter access road were also drill tested.

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Hole ID	Easting (NAD83)	Northing (NAD83)	Elevation (masl)	Azimuth	Dip	Length (m)
15-KAS-001	409890	5941770	192	180	55	99.54
15-KAS-002	409805	5941570	190	10	55	142.21
15-KAS-003	409520	5941775	181	0	90	69.06
15-KAS-004	411575	5938425	184	315	55	44.67
15-KAS-005	411200	5938027	180	0	90	81.25
15-KAS-006	411420	5938245	183	50	55	181.83
15-KAS-007	411220	5939090	190	0	90	54.81
15-KAS-008	411630	5940290	182	0	90	29.43
15-KAS-009	409038	5941892	186	138	55	123.92
					<b>TOTAL:</b>	<b>826.72</b>

Table 2: Collars, 2015 drilling.

The objectives of the project was to drill-test potential base metal and diamond (kimberlite) targets identified in the aeromagnetic/VLF-EM, and ground magnetometer data. The project was also initiated in order for KMC and Kasabonika community members to gain experience and training in the operation of an exploration drilling program in winter and summer.

Targets were selected by KMC, based on geophysical data, and for their close proximity to the existing winter access road.

Berube Repairs, of Temagami, Ontario, mobilized a drill rig, crew, and ancillary equipment by winter road, arriving at Kasabonika February 11. The trailer carrying the drill was struck by a fuel truck while at the side of the road just outside of Pickle Lake. While there were no serious injuries or damage to the drill, the supply pump was damaged, which led to delays at the outset of the program.

Prior to the commencement of drilling, a winter access road was established by the community, along the same route as a winter drill road established by Goldcorp in 2009.

Phase 1 drilling was halted and the crew demobilized March 31. The drill, dozer, and other equipment were left at Wolverine Bay. Phase 2 of the project was completed during the period of June 12-30; for the final hole (15-KAS-009) the rig was transported by helicopter to the western shore of William Bay.

All collars were spotted and oriented using a handheld GPS unit and compass.

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A small area in the Kasabonika community centre, and later at a small warehouse at the community fuel depot were used as a core processing facility.

At the end of each productive shift, core was delivered by the returning drill crew. All of the holes were quick-logged, photographed, and samples selected and marked for splitting. Samples were collected by hand splitter, and samples bagged.

QA/QC standards and blanks (alternately) were inserted every 20th sample prior to packing and shipment. Samples were sent by air to Activation Labs (ActLabs) in Thunder Bay. A total of 268 samples from the 9 completed holes (inclusive of QA/QC samples) were analyzed for a 36-element ICP package, and fire assay for Gold, Platinum, and Palladium. Drill hole collar locations are presented in plan and section, along with laboratory results and assay certificates, in the Appendix.

## **RESULTS of DRILLING PROGRAM**

Laboratory results indicate anomalous concentrations of copper in hole 15-KAS-002 (east side of William Bay). Drilling at Wolverine Bay also revealed elevated Ni and Cr over ~47 meters in gabbroic intrusive rocks (15-KAS-005).

### William Bay

Three holes (15-KAS-001 - 003) were drilled on the east side of William Bay (Figure 2), in order to test a set of interpreted structures observed in the 2010 ground magnetometer data. The area is at the convergence of a number of complex regional features observed in airborne data (Mihelcic, 2010). One hole was drilled on the west side of William Bay (15-KAS-009).

#### 15 - KAS - 001

This hole targeted the northeastern-most of the three magnetic anomalies on the east side of William Bay. The hole is comprised of alternating volcanically derived meta-sediments, and mafic volcanics. Anomalous chromium and nickel are present between ~61-71m down hole.

#### 15 - KAS - 002

This hole was drilled on the largest of the three ground magnetometer anomalies on the east side of William Bay. The lithology is similar to 15-KAS-001; up to 8% disseminated to semi-massive pyrite, pyrrhotite, and chalcopyrite are present within the top ~6m of bedrock, and are associated with copper values of up to 3620 ppm. Elevated chromium and nickel are associated with an intensely foliated and silicified meta-sedimentary unit logged at ~71-91m down hole. This anomaly represents a good candidate for followup drill testing.

15 - KAS - 003

This hole was targeted the smallest of the three ground magnetometer anomalies on the east side of William Bay, and was drilled vertically on the ice just off the shore. Lithology is similar to the other East William Bay holes. No significant assay values were returned.

15 - KAS - 009

Final hole of the 2015 drilling program, Phase 2. Drilled on the western shore of William Bay, to investigate a weak aeromagnetic anomaly. The hole is comprised wholly of medium to light grey mud- and siltstone, with locally abundant quartz stringers and occasional concentrations of pyrite along bedding planes and as fracture fillings. Laboratory results indicate no anomalous mineralization.

#### Wolverine Bay Area

Three holes were drilled in near Wolverine Bay, approximately 3.5km SE of William Bay (Figures 3 and 5).

15 - KAS - 004

Drilled across a set of complex magnetic features identified in the 2010 ground magnetometer survey, where weakly magnetic, chloritic mafic volcanic rocks bearing up to 5% massive to semi-massive sulphides (pyrite, pyrrhotite, minor chalcopyrite) are exposed in outcrop. Previous surface sampling indicated weakly anomalous gold, platinum, and palladium (Anderson and Parker, 2005). The highest values in the core are 125 ppb Au, 35 ppb Pt, 45 ppb Pd. The magnetic features observed in the 2010 ground survey are considered to be a rafted pendant associated with a discordant stoped pluton contact.

15 - KAS - 005

This hole was drilled vertically and targeted a roughly circular magnetic feature under a small, round lake (possible kimberlite). The core comprised mostly weak to moderately silicified, and locally strongly chloritized, fine grained gabbros. Granitic rocks are present at ~38.03-40.77m down hole. Most of the samples returned elevated chromium and nickel (up to 2280ppm Cr, 1910ppm Ni). Trace values of Pt, Pd, and Au are also present.

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15 - KAS - 006

This hole was drilled across the interpreted contact between mafic rocks to the south, and a felsic intrusion to the north, in order to help establish the stratigraphy of the area. Also, the hole location chosen look for mineralized quartz vein reported by local trappers to be in the vicinity. The hole intersected what is interpreted as a discordant, stoped pluton contact. Laboratory results indicate no anomalous mineralization.

### Kimberlite Targets

15 - KAS - 007

The first of two holes drilled to test previously interpreted kimberlite targets (Johnson, 2008). No kimberlite was encountered -the aeromagnetic high is likely due to the presence of slate/hornfels near the top of the hole, interpreted as a country rock roof pendant in the surrounding felsic intrusion.

15 - KAS - 008

The second of two holes drilled to test kimberlite. No kimberlite was encountered - the weak aeromagnetic anomaly is considered to be caused by pyrite disseminated in bedrock near the base of till.

## **CONCLUSIONS AND RECOMMENDATIONS**

The presence at this early stage in of exploration of elevated background levels of chromium and nickel, and anomalous copper, in favourable rocks, confirms the prospective nature of the area. Further exploration work undertaken by KMC should be focused on target generation. Developing new targets in a cost effective manner will involve multiple steps of field work, starting with prospecting and till sampling, followed by ground geophysics, trenching and channel sampling, and eventually drilling.

### Prospecting

While bedrock exposure in the area is poor, a program to systematically collect bedrock samples could be very instructive, and should be undertaken. A short training program for interested local community members will help to ensure samples are properly collected and locations recorded.

### Till Sampling

Soil sampling in the area is a potentially ineffective exploration method, due to common clay-rich basal layers, and thick overburden (Goldcorp, 2008). A more useful endeavour would be to carry out a broad till sampling program, analyzing the samples for kimberlite indicator minerals and gold grains.

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### Geophysics

Results from till sampling and prospecting programmes can be followed up with detailed ground geophysical surveys, similar to the surveys conducted by ClearView in 2010.

### Trenching & Channel Sampling

Depending on logistics, trenching can be an effective and (relatively) inexpensive way to follow up on strong bedrock or till sample results. An excavator is used to clear overburden from a small area, exposing the bedrock and revealing valuable geological information. Channel samples can then be cut using a rock saw.

### Drilling

The ultimate purpose of the above listed exploration work is to develop “drill-ready” targets. These targets can then be used to attract joint venture partners to fund ongoing exploration and development work.

At William Bay, additional drill testing of the ground magnetometer anomaly targeted by hole 15-KAS-002 could be warranted, based on high concentrations of disseminated sulphide minerals and associated anomalous Copper, Zinc, and Vanadium values near the bedrock-till contact.

At Wolverine Bay, a 350-400m hole could be targeted across the 15-KAS-005 gabbroic body at a dip of 45°-55°, to the possibility of a layered intrusion, and potential PGE bearing sulphide reefs.

Future drill training programs could also be used to test nearby kimberlite targets identified in the 2007 aeromag data. The cluster of potential kimberlite signatures is between 1.5 and 2.8 km south-east of 15-KAS-005, and lies entirely within the existing KMC claim #4265448.

**PROJECT SUPERVISION**

**Drill Program Design and Budgeting**

Eno Anderson  
Kasabonika Lake First Nation  
Box 124  
Kasabonika, Ontario  
P0V 1Y0

Antonius (Ton) Knijnenburg  
Egwaa Management Consulting Inc.  
Thunder Bay, Ontario  
Cell 807 620 3092  
Fax 888 846 2957

**Field and Contractor Supervision, Core Logging**

Tim Hannon  
Summit Exploration Services Ltd.  
Guelph, Ontario  
(226) 979-5596

**List of References**

- Thurston et al (1971) Preliminary Map P.713, Operation Winisk Lake Kasabonika Lake - Shibogama Lake
- Stone, D (2002) A Study of Indicator Minerals for Kimberlite, Base Metals and Gold: Kasabonika, Ontario. OGS Report 6089
- Anderson, Darell and Parker, Douglas (2005) Report on the Exploration Program Project 3008869
- Barrie, Charles (2007) Operations Report for Kasabonika Lake First Nation: High Resolution Horizontal Magnetic Gradient & XDS-VLF-EM Airborne Survey, Kasabonika Lake Property (KMC internal report)
- Johnson, Matthew (2008) Report on an Interpretation of Airborne Magnetic and VLF-EM Data (KMC internal report)
- Gibson, David (2008) Report on Magnetic and HLEM Program (KMC internal report)
- Penczak, Robert (2009) 2009 Winter Drilling Program Assessment Report
- Mihelcic, Joe (2010) Report on Magnetometer Surveys (KMC internal report)




**Statement of Qualifications**

I, Timothy P.B. Hannon, of 23 Summit Crescent, Guelph, Ontario, N1H 1S2, declare that:

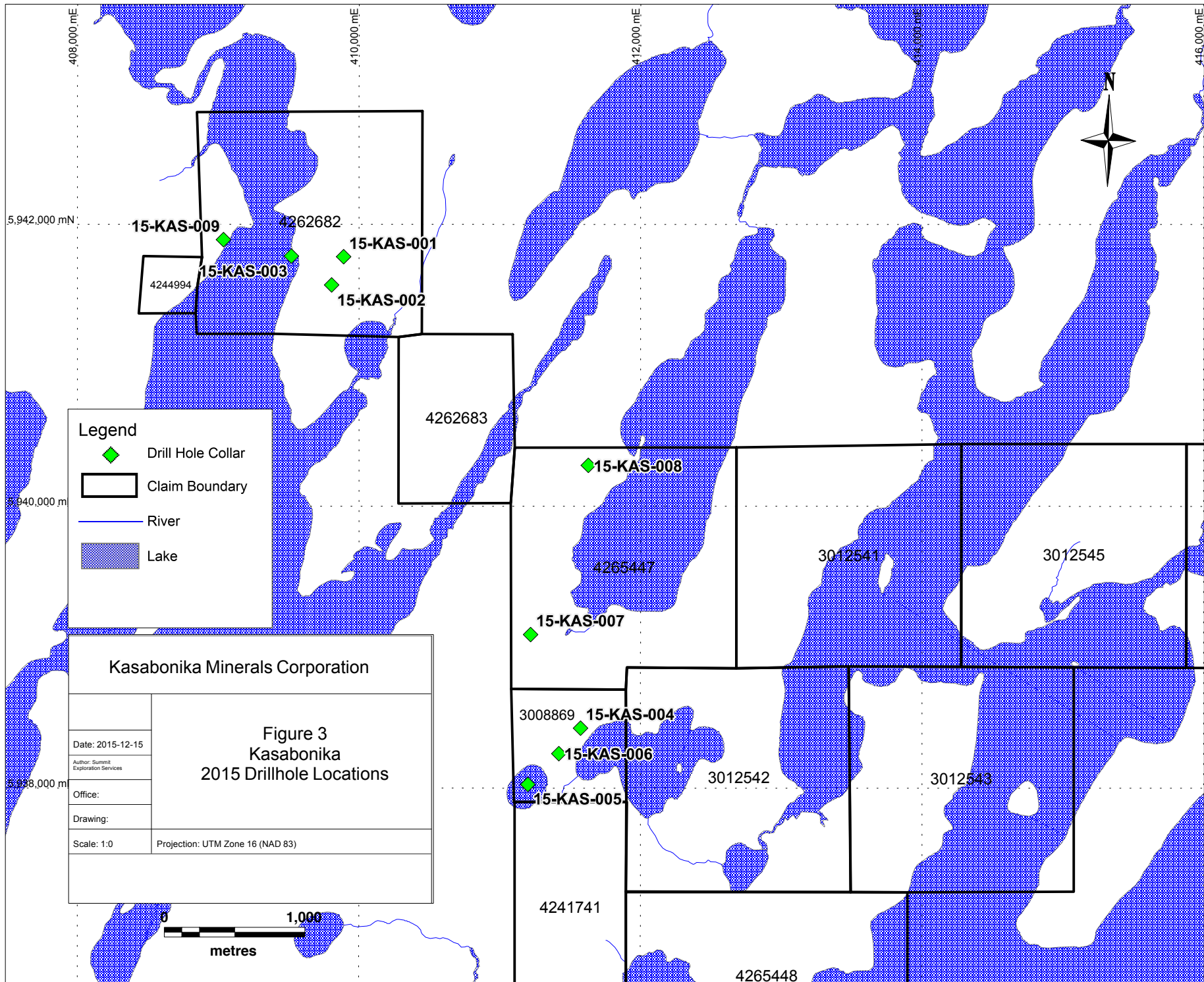
1. I am the author of this report, entitled “Kasabonika Minerals 2015 Drilling Program, Thunder Bay Mining District NTS 53H/9 Assessment Report” for Kasabonika Minerals Corporation.
2. I studied Earth Science at Dalhousie University, Halifax, Nova Scotia (1999-2003).
3. I have been employed in various aspects of mineral exploration and development in Nova Scotia, Ontario, Quebec, Saskatchewan, and West Africa, for government and private industry, since 1991.
4. I do not have or expect to receive any interest in, direct or indirect, and am an independent person with respect to, the properties discussed in this report.

Dated at Guelph, Ontario, on January 18, 2016



Tim Hannon

**APPENDIX I - MAPS AND SECTIONS**

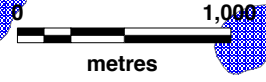


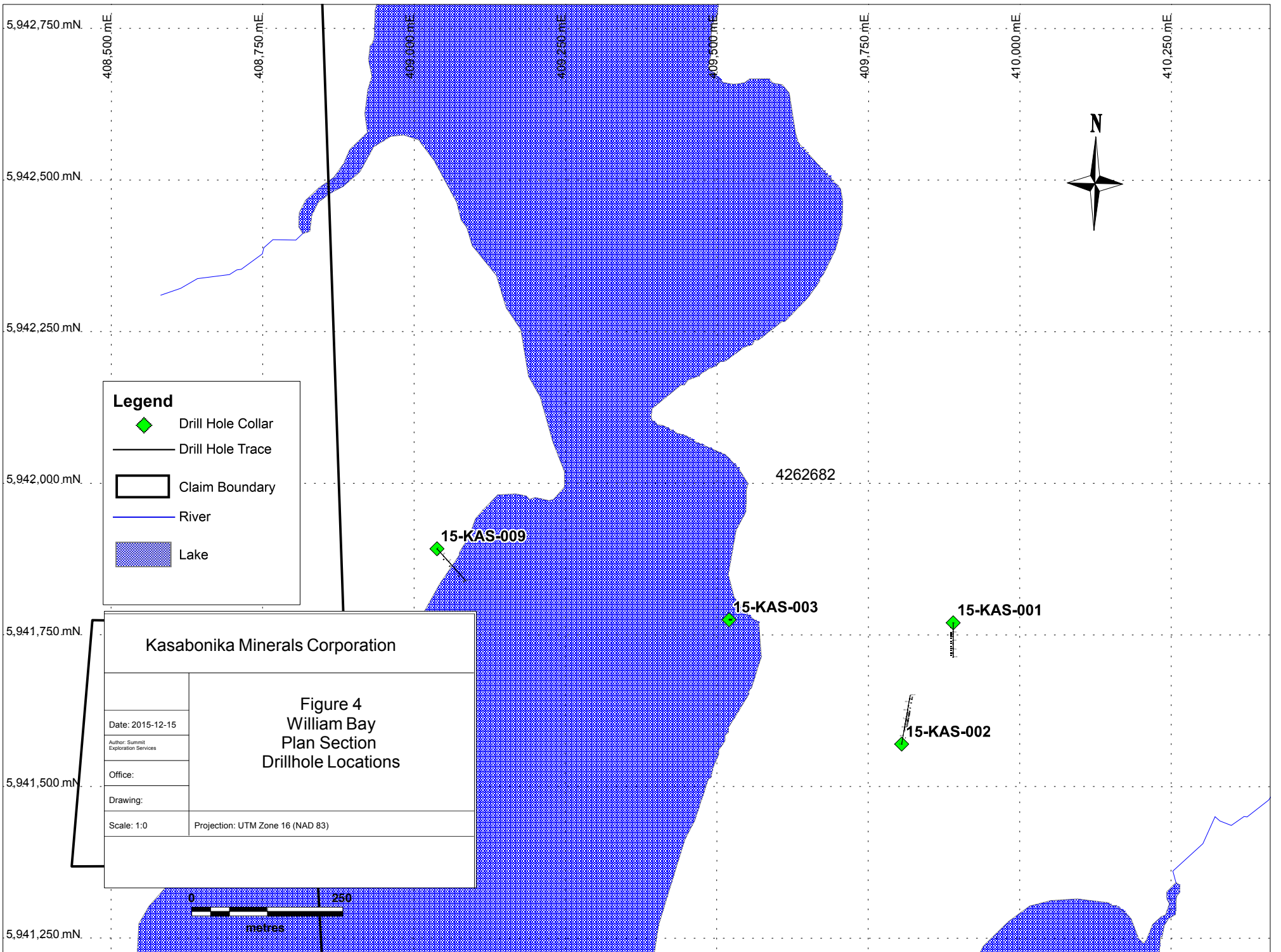
**Legend**

- ◆ Drill Hole Collar
- Claim Boundary
- River
- Lake






**Kasabonika Minerals Corporation**

<b>Figure 3 Kasabonika 2015 Drillhole Locations</b>	
Date: 2015-12-15	
Author: Summit Exploration Services	
Office:	
Drawing:	
Scale: 1:0	Projection: UTM Zone 16 (NAD 83)



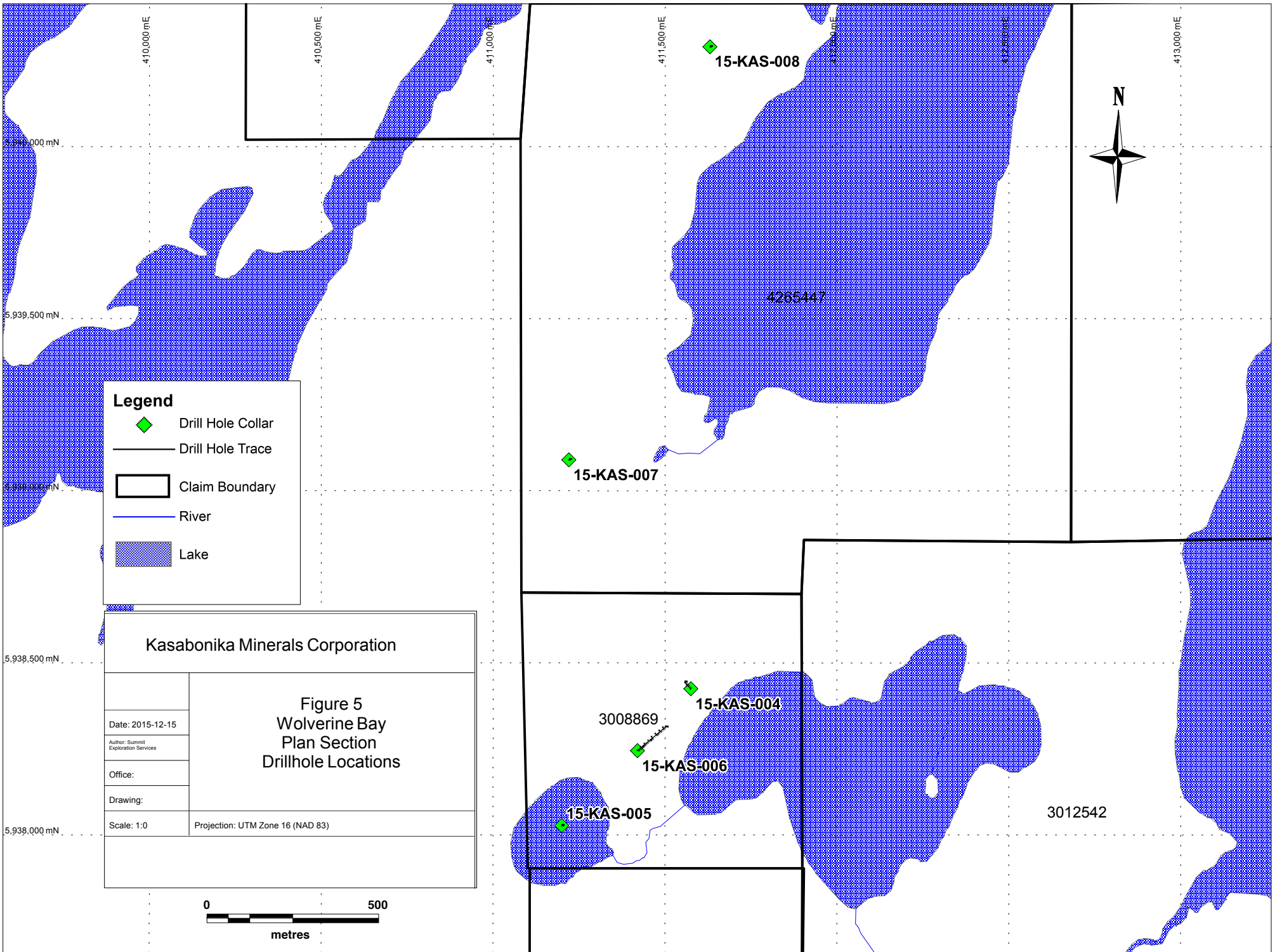


**Legend**






-  Drill Hole Collar
-  Drill Hole Trace
-  Claim Boundary
-  River
-  Lake

<b>Kasabonika Minerals Corporation</b>	
Date: 2015-12-15	<b>Figure 4</b> <b>William Bay</b> <b>Plan Section</b> <b>Drillhole Locations</b>
Author: Summi Exploration Services	
Office:	
Drawing:	
Scale: 1:0	Projection: UTM Zone 16 (NAD 83)



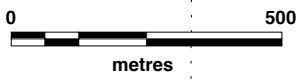


**Legend**

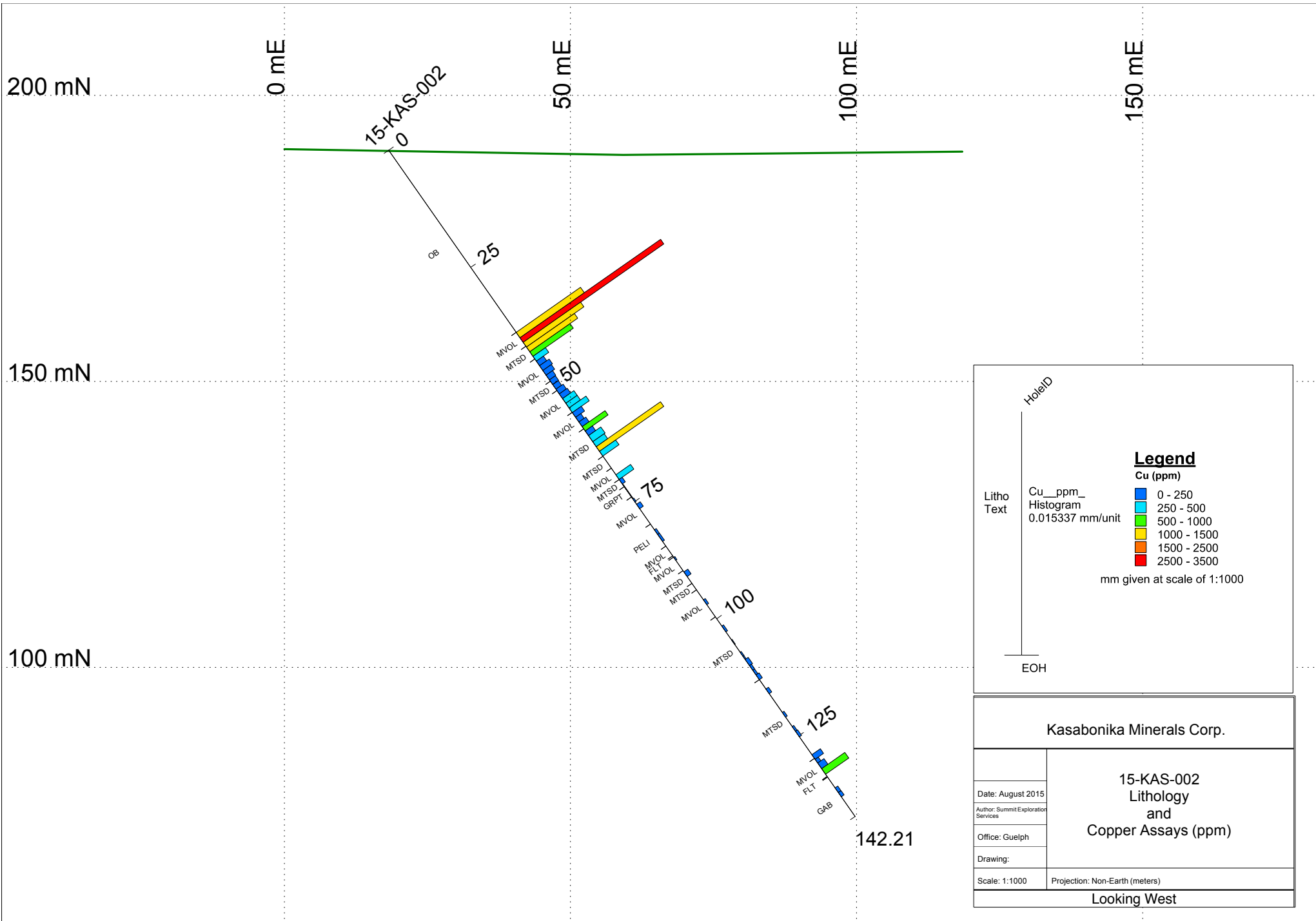
-  Drill Hole Collar
-  Drill Hole Trace
-  Claim Boundary
-  River
-  Lake

**Kasabonika Minerals Corporation**

Date: 2015-12-15	<p><b>Figure 5</b> Wolverine Bay Plan Section Drillhole Locations</p>
Author: Summit Exploration Services	
Office:	
Drawing:	
Scale: 1:0	Projection: UTM Zone 16 (NAD 83)







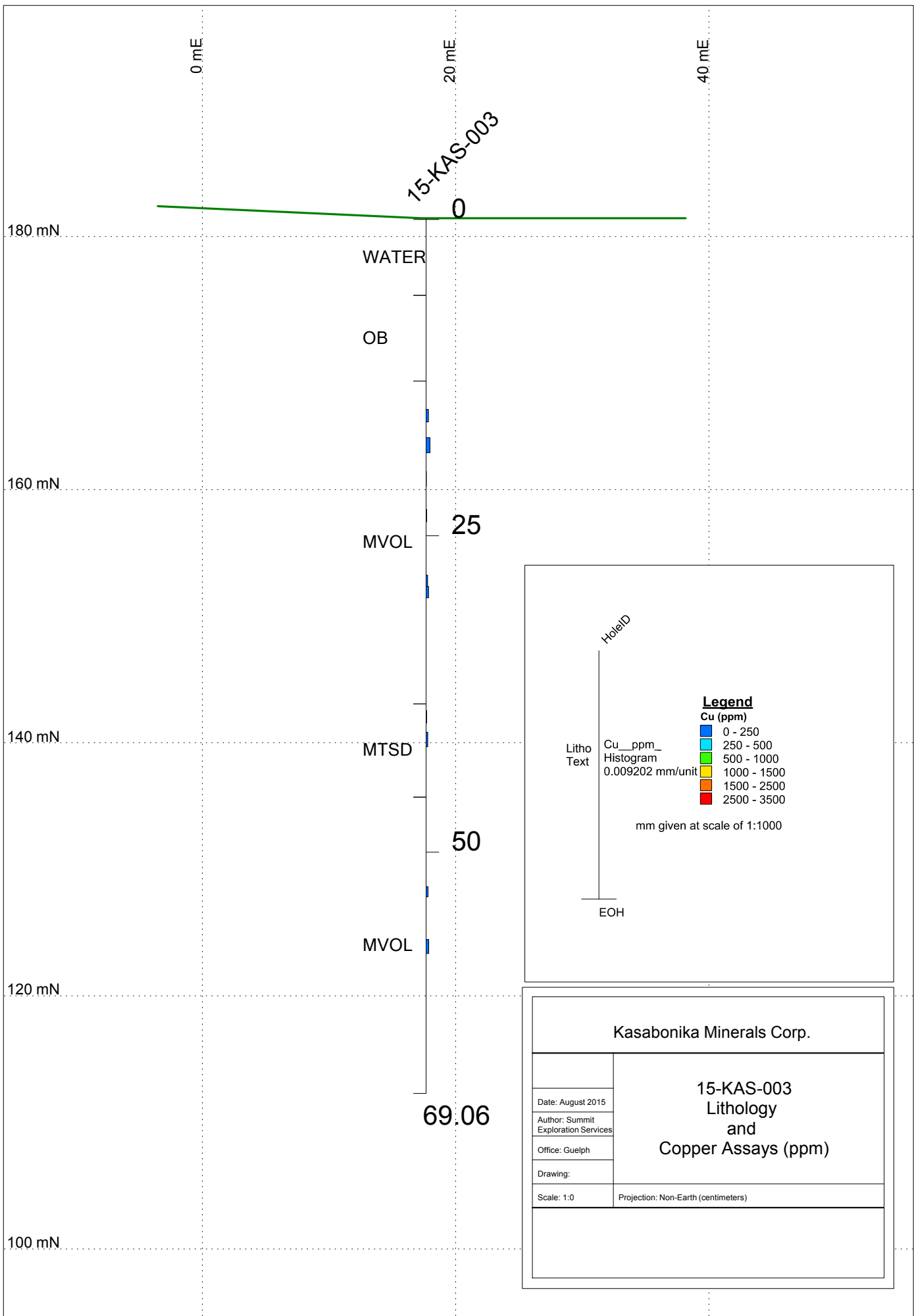
HoleID

Litho Text

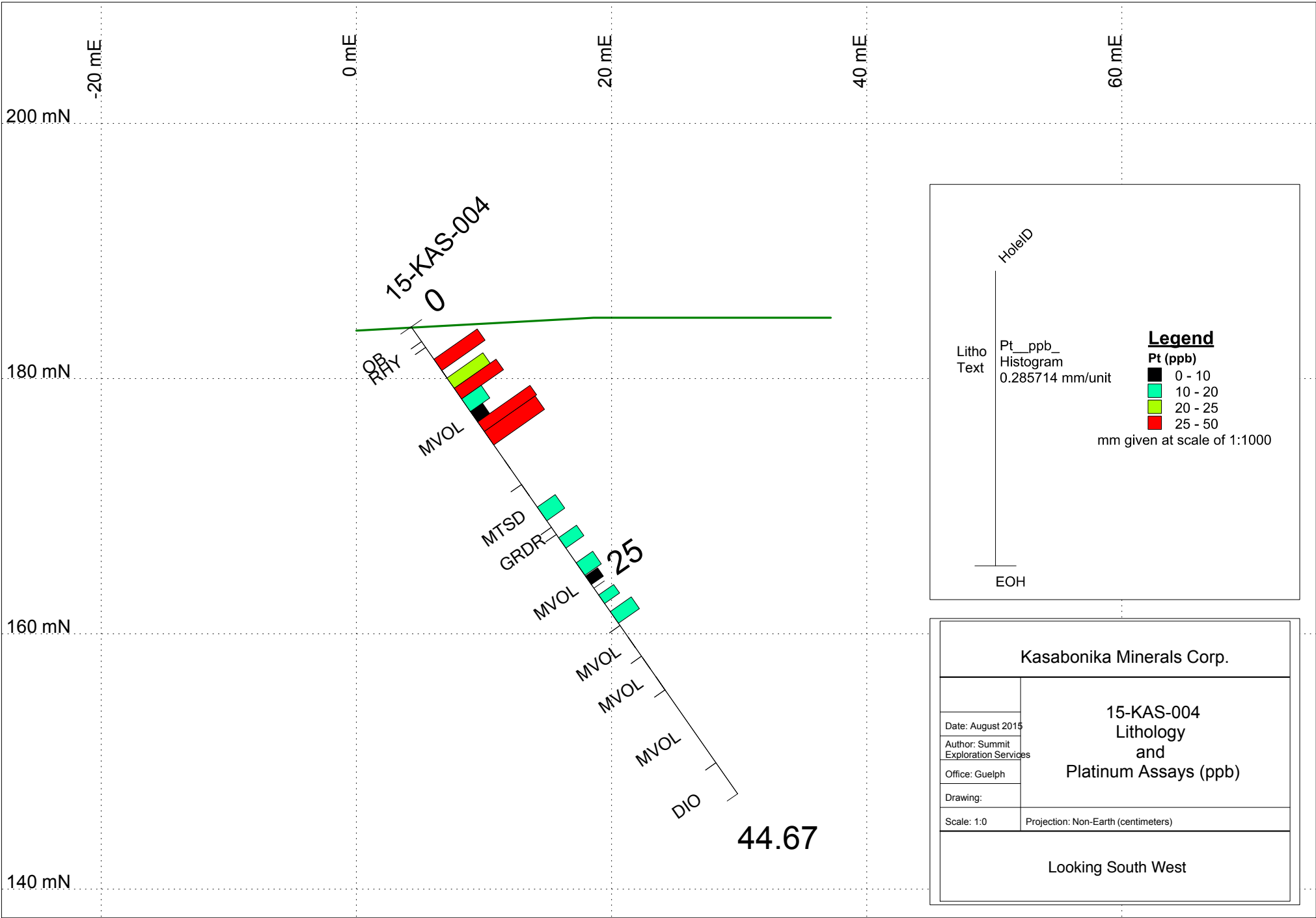
Cu\_ppm\_Histogram  
0.015337 mm/unit

EOH

Kasabonika Minerals Corp.	
15-KAS-002 Lithology and Copper Assays (ppm)	
Date: August 2015	
Author: Summit Exploration Services	
Office: Guelph	
Drawing:	
Scale: 1:1000	Projection: Non-Earth (meters)
Looking West	







200 mN

180 mN

160 mN

140 mN

-20 mE

0 mE

20 mE

40 mE

60 mE

HoleID

Litho  
Text

Pt\_ppb\_  
Histogram  
0.285714 mm/unit

**Legend**  
Pt (ppb)  
0 - 10  
10 - 20  
20 - 25  
25 - 50

mm given at scale of 1:1000

EOH

**Kasabonika Minerals Corp.**

**15-KAS-004  
Lithology  
and  
Platinum Assays (ppb)**

Date: August 2015  
Author: Summit Exploration Services  
Office: Guelph  
Drawing:  
Scale: 1:0  
Projection: Non-Earth (centimeters)

Looking South West

220 mN

200 mN

180 mN

160 mN

140 mN

120 mN

100 mN

80 mN

-20 mE

0 mE

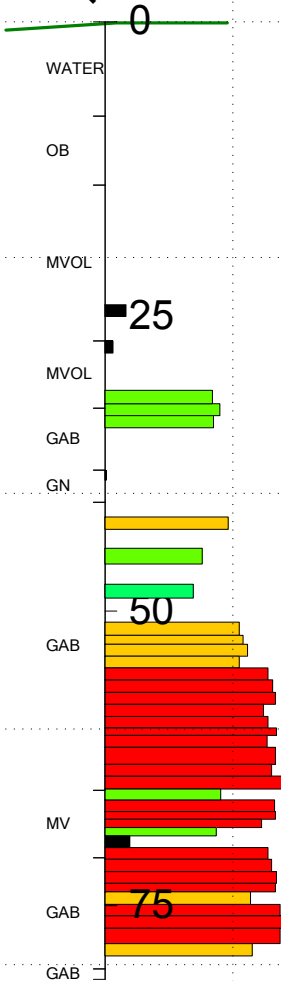
20 mE

40 mE

60 mE

80 mE

15-KAS-005



HoleID

Litho  
Text

Ni\_ppm\_  
Histogram  
0.007853 mm/unit

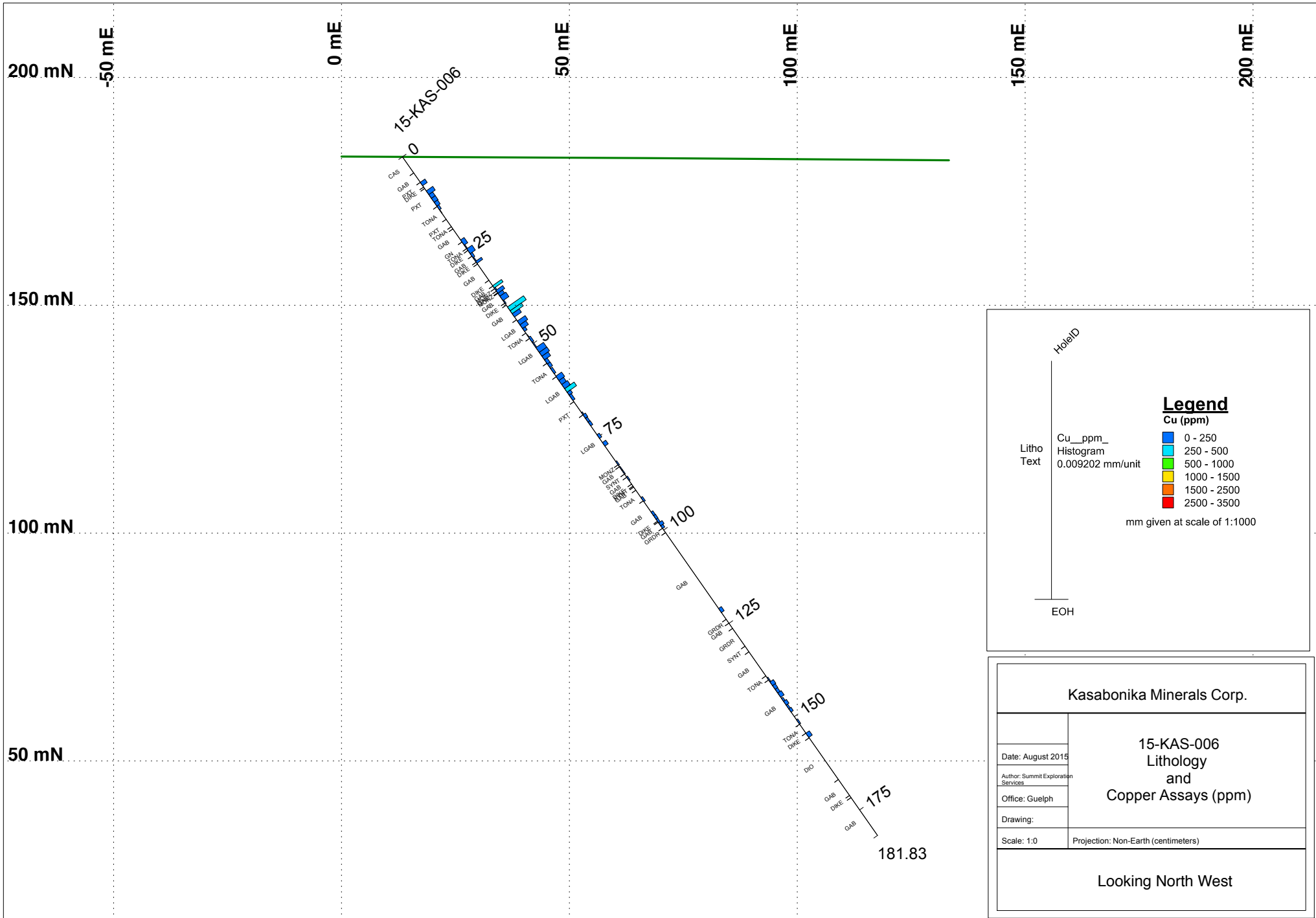
**Legend**  
Ni (ppm)

- 0 - 318
- 318 - 637
- 637 - 955
- 955 - 1275
- 1275 - 1600
- 1600 - 2000

mm given at scale of 1:1000

EOH

Kasabonika Minerals Corp.	
15-KAS-005 Lithology and Nickel Assays (ppm)	
Date: August 2015	
Author: Summit Exploration Services	
Office: Guelph	
Drawing:	
Scale: 1:0	Projection: Non-Earth (centimeters)



200 mN

-50 mE

0 mE

50 mE

100 mE

150 mE

200 mE

150 mN

100 mN

50 mN

0

25

50

75

100

125

150

175

181.83

CAS

GAB

DKE

PXT

TOMA

PXT

TOMA

GAB

GN

DKE

DKE

GAB

DKE

DKE

GAB

LGAB

TOMA

LGAB

TOMA

LGAB

PXT

LGAB

MONZ

GAB

SYW

GAB

SYW

GAB

TOMA

GAB

TOMA

DKE

GAB

DKE

GAB

Litho

Text

HoleID

EOH

Date:

Author:

Office:

Drawing:

Scale:

Projection:

Looking North West

200 mN  
20 mE

30 mE

40 mE

50 mE

60 mE

15-KAS-007

190 mN

0

CAS

DIO

SLT

DIO

180 mN

SLT

170 mN

25

DIKE

SLT

160 mN

TONA

SLT

150 mN

DIO

140 mN

50

54.81

HoleID

Litho Text

EOH

**Legend**

Cu (ppm)

- 0 - 250
- 250 - 500
- 500 - 1000
- 1000 - 1500
- 1500 - 2500
- 2500 - 3500

Cu\_ppm\_  
Histogram  
0.009202 mm/uni

mm given at scale of 1:1000

Kasabonika Minerals Corp.

15-KAS-007  
Lithology  
and  
Copper Assays (ppm)

Date: August 2015

Author: Summit Exploration Services

Office: Guelph

Drawing:

Scale: 1:0

Projection: Non-Earth (centimeters)

20 mE  
190 mN

30 mE

40 mE

50 mE

15-KAS-008  
0

180 mN

CAS

170 mN

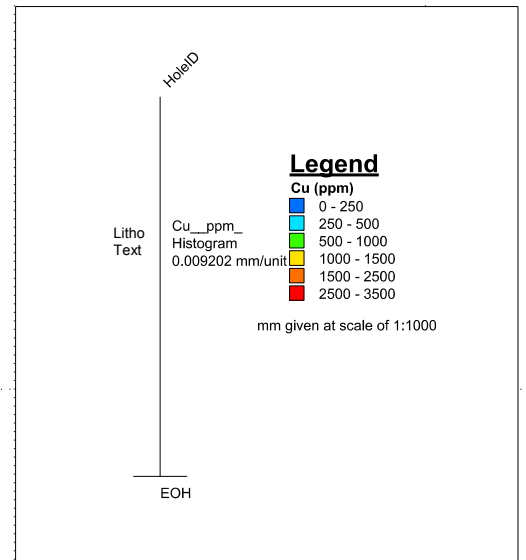
160 mN

GAB

25

150 mN

29.43



Kasabonika Minerals Corp.

15-KAS-008  
Lithology  
and  
Copper Assays (ppm)

Date: August 2015

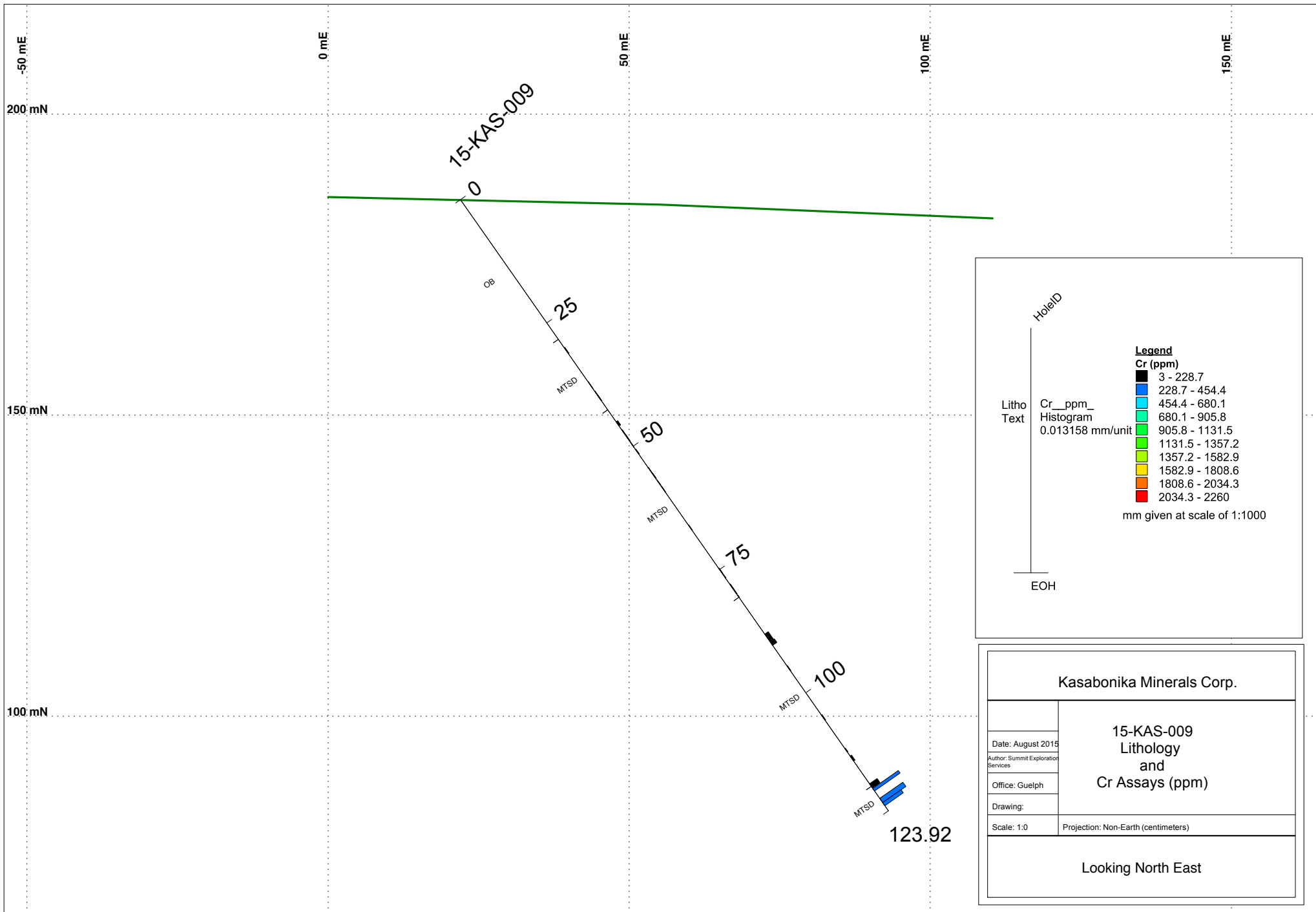
Author: Summit Exploration  
Services

Office: Guelph

Drawing:

Scale: 1:0

Projection: Non-Earth (centimeters)



**APPENDIX II - DRILL LOGS**

Kasabonika Minerals Corp.

Hole Number:

15-KAS-001

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<b><u>Drilling</u></b>		<b><u>Casing</u></b>		<b><u>Location</u></b>		<b><u>Other</u></b>	
<b>Azimuth:</b>	180	<b>Length:</b>	26.44 meters	<b>Township:</b>	BMA 535882	<b>Contractor:</b>	Berube Repairs
<b>Dip:</b>	55	<b>Pulled:</b>	No	<b>Claim No:</b>	4262682	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	99.54 meters	<b>Capped:</b>		<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	28-Feb-15	<b>Cemented:</b>	No	<b>East:</b>	409890	<b>Survey Date:</b>	
<b>Completed:</b>	1-Mar-15			<b>North:</b>	5941770	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No	<b><u>Core</u></b>		<b>Elevation:</b>	192	<b>Date Logged:</b>	2-Mar-15
<b>Wedged From:</b>		<b>Size:</b>	BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
						<b>Sampler:</b>	L. Beardy
<b>Target:</b>	William Bay East						
<b>Comments:</b>	Start of drilling delayed for repairs to supply pump						

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**Deviation Test (corrected)**

Depth (m)	Azimuth	Dip	Type	Mag	Temp
38	194.98	53.1	EZ Shot	5689	9.9
99.7	196.78	52.5	EZ Shot	5744	10.2



Hole ID	From	To	Litho	Modifier	Angle	Comments
15-KAS-001	0	26.44	OB			
15-KAS-001	26.44	31.68	MV			fine grained, dark blue-green mafic volcanics; irregular quartz veins + stringers; 1-3% blebby pyrite at fracture planes; weak chlorite alteration
15-KAS-001	31.68	32.95	MV			as above; less chlorite, no quartz veins; up to 2% blebby pyrite (fracture filling)
15-KAS-001	32.95	38.22	MS		50	moderate to strongly foliated; quartz + chlorite at foliation planes; ≤1% disseminated pyrite
15-KAS-001	38.22	39.64	MV			v.weak to no foliation; no pyrite; very fine grained brown mineral throughout (fine grained norite?)
15-KAS-001	39.64	50.53	MS			weak to moderate foliation; weakly silicified and chloritized; 1-2% blebby pyrite
15-KAS-001	50.53	57.77	MV			dark green/grey mafic volcanics; ≤1% disseminated pyrite
15-KAS-001	57.77	61.9	MS		55	light to medium grey, ≤1mm beds; weak-moderate silicification and chloritization; irregular quartz stringers
15-KAS-001	61.9	73.39	MV			dark green/grey, local ms layers (≤10mm); rare quartz stringers; <1% disseminated pyrite
15-KAS-001	73.39	73.9	MS		50	quartz stringers; <1% pyrite
15-KAS-001	73.9	85.22	MV			dark grey mv; rare quartz stringers; ≤3% disseminated pyrite
15-KAS-001	85.22	88.04	MV			as above; quartz eyes + 2% blebby pyrite/pyrrhotite; fault gouge @ 86.7m
15-KAS-001	88.04	88.5	MS		30	light grey/green; moderate chlorite alteration, weakly silicified
15-KAS-001	88.5	99.54	MV			dark green - black; increasing chlorite past ~98m; ≤3% disseminated pyrite.

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-001	26.38	27.6	1.22	1193059	5	<5	<5	0.4	6.61	7	256	2	<2	4.02	1.3	60	53	72	13.7	25	2	1.14	1.6	14	1950	<1	1.98	12	0.067	9	<5	0.48	36	171	4	0.43	<5	<10	58	<5	24	159	32
15-KAS-001	29.65	30.94	1.29	1193061	<2	<5	<5	0.7	5.9	9	184	2	<2	3.75	1.7	45	41	110	17.3	24	2	0.99	2.36	13	2890	<1	1.42	12	0.072	12	<5	0.62	28	92	<2	0.55	<5	<10	70	<5	28	249	140
15-KAS-001	30.94	31.75	0.81	1193062	<2	<5	<5	1.1	6.6	8	129	2	<2	2.6	0.9	17	18	80	8.03	22	<1	0.47	1.19	9	1420	2	3.18	9	0.104	7	<5	0.52	14	141	6	0.54	<5	<10	9	<5	41	156	314
15-KAS-001	58	58.7	0.7	1193063	3	<5	<5	1	6.89	17	459	3	<2	2.23	0.7	9	10	10	5.84	24	<1	2.02	0.87	26	779	<1	2.12	8	0.05	4	<5	0.03	11	95	13	0.29	<5	<10	5	<5	38	68	296
15-KAS-001	60	60.5	0.5	1193064	67	<5	<5	1.6	6.52	2740	422	2	<2	3.77	<0.3	8	14	32	4.39	22	6	1.95	0.63	14	1140	5	2.42	5	0.053	10	15	0.5	10	144	5	0.41	<5	<10	5	<5	34	28	390
15-KAS-001	72.4	73.21	0.81	1193065	8	<5	<5	0.7	6.71	525	505	3	<2	1.61	1.9	8	14	44	5.44	23	<1	2.03	0.69	11	1390	2	1.5	6	0.044	12	<5	0.21	10	92	<2	0.3	<5	<10	3	<5	31	173	228
15-KAS-001	76.85	77.55	0.7	1193066	3	<5	<5	1.3	6.39	174	380	3	<2	1.98	1.1	6	19	20	5.67	22	<1	1.17	0.64	10	1500	<1	2.75	5	0.048	4	<5	0.06	9	182	5	0.33	<5	<10	4	<5	36	267	353
15-KAS-001	95.2	95.9	0.7	1193067	<2	<5	<5	1.3	6.88	6	519	3	<2	1.61	0.9	10	18	29	5.3	25	<1	1.69	0.62	15	1270	4	2.12	3	0.054	7	<5	0.04	10	101	<2	0.38	10	<10	4	<5	45	88	415
15-KAS-001	98.27	99.54	1.27	1193068	<2	<5	<5	0.9	5.47	4	310	2	<2	4.04	1.9	22	17	56	8.65	19	<1	0.87	1.73	15	2450	1	2.01	2	0.125	35	<5	0.28	12	213	9	0.74	<5	<10	18	9	25	489	233

Kasabonika Minerals Corp.

Hole Number: 15-KAS-002

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<b><u>Drilling</u></b>		<b><u>Casing</u></b>		<b><u>Location</u></b>		<b><u>Other</u></b>	
<b>Azimuth:</b>	10	<b>Length:</b>	38.86 meters	<b>Township:</b>	BMA 535882	<b>Contractor:</b>	Berube Repairs
<b>Dip:</b>	55	<b>Pulled:</b>	No	<b>Claim No:</b>	4262682	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	142.21 meters	<b>Capped:</b>		<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	11-Mar-15	<b>Cemented:</b>	No	<b>East:</b>	409805	<b>Survey Date:</b>	
<b>Completed:</b>	16-Mar-15			<b>North:</b>	5941570	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No			<b>Elevation:</b>	190	<b>Date Logged:</b>	17-Mar-15
<b>Wedged From:</b>		<b><u>Core</u></b>		<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Size:</b>	BTW	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
		<b>Storage:</b>	Kasabonika			<b>Sampler:</b>	L. Beardy
<b>Target:</b>	William Bay East						
<b>Comments:</b>							

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<b><u>Deviation Test (corrected)</u></b>					
<b>Depth (m)</b>	<b>Azimuth</b>	<b>Dip</b>	<b>Type</b>	<b>Mag</b>	<b>Temp</b>
38	20.18	52.7	EZ Shot	5410	6
99.7	17.58	51.4	EZ Shot	5696	3.1

Hole ID	From	To	Litho	Modifier	Angle	Comments
15-KAS-002	0	38.86	OB			Boulder rich overburden
15-KAS-002	38.86	41.84	MV			Clay rich lake bottom sediments; >3m till
15-KAS-002	41.84	44.55	MS			medium green, medium grained mv; quartz stringers ≤3mm; unknown silver-grey metallic mineral disseminated throughout (1-2%); increasingly magnetic from weak-moderate/strong starting @ 39.49; moderate-strong chlorite alteration coincident with mag
15-KAS-002	44.55	49.29	MV			coarse grained ms; quartz stringers ≤4mm; weakly-moderately magnetic; 1-2% pyrite, trace chalcopyrite
15-KAS-002	49.29	51.29	MS			massive medium grey, weakly magnetic
15-KAS-002	51.29	55.96	MV			medium-dark green/grey ms; minor ≤1mm quartz stringers; trace-1% disseminated pyrite
15-KAS-002	55.96	59.46	MV			dark green/black fine grained basalt (?); ≤1% disseminated pyrite +1% fracture filling pyrite; quartz veins ≤2cm + ≤1mm stringers; weakly magnetic
15-KAS-002	59.46	65.32	MS			coarse grained ms (?); quartz stringers ≤4mm; moderate chlorite; trace-1% disseminated pyrite/pyrrhotite
15-KAS-002	65.32	67.86	FLT			loose faulted ms (?)
15-KAS-002	67.86	70.28	MV			medium grey/green mv; ≤3% disseminated pyrite/pyrrhotite
15-KAS-002	70.28	71.8	MS			light green-medium grey ms; quartz veins ≤2cm; ≤2% pyrite
15-KAS-002	71.8	74.01	MS			light grey/green laminated graphite
15-KAS-002	74.01	79.8	MV			massive mv; ≤1% disseminated pyrite; non-magnetic
15-KAS-002	79.8	84.5	MS		50-25	strongly laminated pelite; ≤3cm quartz veins; weak-moderate chlorite
15-KAS-002	84.5	86.58	MV			massive mv; medium green/grey; <1% disseminated pyrite; moderate chlorite; weakly magnetic
15-KAS-002	86.58	86.84	FLT			
15-KAS-002	86.84	89.74	MV			weakly laminated, light-medium green; moderate chlorite, <1% disseminated pyrite; non-magnetic
15-KAS-002	89.74	92.45	MS		40	light grey/brown; <1% disseminated pyrite; beds <2mm
15-KAS-002	92.45	93.84	MS		80	as above, medium grey/green; weak chlorite
15-KAS-002	93.84	99.61	MV			medium grey; quartz veins ≤4mm; ≤1% disseminated pyrite/pyrrhotite
15-KAS-002	99.61	113	MS/MV			alternating sequence; ≥3% fracture filling + blebby pyrite
15-KAS-002	113	129.8	MS		50	light brown/grey/green ms; ≤1-2% disseminated + fracture filling pyrite
15-KAS-002	129.8	133.66	MV			light grey/green; quartz veins ≤3cm
15-KAS-002	133.66	133.8	FLT			
15-KAS-002	133.8	142.21	GAB			fresh, dark grey/green gabbro

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (ppm)	Hg (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	Zr (ppm)					
15-KAS-002	38.86	40	1.14	1193001	6	<5	<5	1.4	2.9	<3	144	1	<2	4.56	1.5	185	653	1490	22.5	12	<1	0.56	5.28	6	1910	<1	0.21	713	0.025	31	<5	1.7	24	80	<2	0.52	<5	<10	548	<5	12	168	43
15-KAS-002	40	41	1.193002	9	<5	<5	1.1	2.51	5	137	<1	7	1.35	3.5	198	205	3260	35.7	18	<1	0.57	3.18	6	2070	<1	0.15	725	0.012	26	7	0.47	15	24	16	2.67	<5	<10	1700	6	6	97	55	
15-KAS-002	41	42	1.193003	5	<5	<5	0.5	2.53	<3	210	<1	<2	3.57	1.9	164	38	1390	25.5	17	<1	0.93	4.75	7	2230	<1	0.1	501	0.011	23	12	0.2	20	86	5	0.86	<5	<10	810	<5	9	104	66	
15-KAS-002	42	43	1.193004	7	<5	<5	0.4	3.15	<3	261	<1	<2	5.53	0.9	113	11	1110	19.5	15	<1	1.47	4.3	13	1360	<1	0.23	264	0.018	13	<5	0.23	30	165	17	0.62	<5	<10	607	<5	13	98	71	
15-KAS-002	43	44	1.193005	6	<5	<5	<0.3	3.62	<3	378	1	<2	5.79	<0.3	104	7	934	16.9	16	<1	1.59	3.98	13	1800	<1	0.92	206	0.03	8	<5	0.28	34	198	<2	0.31	<5	<10	270	<5	15	91	20	
15-KAS-002	44	45	1.193006	<2	<5	<5	<0.3	4.56	<3	298	1	<2	5.85	<0.3	64	5	289	13.9	16	<1	1.08	3.05	12	1650	<1	1.87	94	0.05	8	<5	0.25	27	284	<2	0.27	<5	<10	143	<5	18	81	26	
15-KAS-002	45	46	1.193007	5	<5	<5	<0.3	6.32	<3	136	2	<2	4.43	<0.3	49	4	165	10.9	20	<1	0.31	2.19	5	1420	<1	3.46	30	0.068	6	<5	0.08	19	380	13	0.36	<5	<10	94	<5	20	64	60	
15-KAS-002	46	47	1.193008	5	<5	<5	0.3	6.33	<3	186	2	<2	4.36	0.5	52	9	221	11	20	<1	0.51	2.18	7	1410	<1	3.63	28	0.068	10	<5	0.08	17	352	12	0.45	<5	<10	111	<5	20	67	87	
15-KAS-002	47	48	1.193009	4	<5	<5	0.4	5.69	<3	185	1	5	4.09	0.4	51	3	196	10.8	20	<1	0.46	1.93	7	1500	<1	3.75	39	0.08	6	<5	0.07	14	392	12	0.76	<5	<10	148	<5	15	66	91	
15-KAS-002	48	49	1.193010	<2	<5	<5	0.5	4.46	6	213	2	5	3.6	<0.3	56	3	147	10.7	19	<1	0.53	1.62	7	1480	<1	3.69	35	0.086	8	<5	0.04	9	297	12	1.3	<5	<10	235	<5	11	59	155	
15-KAS-002	49	50	1.193011	3	<5	<5	<0.3	6.29	<3	186	2	2	4.49	<0.3	48	76	137	11.1	24	<1	0.47	2.02	7	1530	<1	3.56	32	0.066	11	<5	0.12	17	311	7	0.25	<5	<10	87	<5	21	65	49	
15-KAS-002	50	51	1.193012	2	<5	<5	<0.3	6.44	<3	281	1	<2	5.52	<0.3	64	4	129	12.2	18	<1	0.83	2.66	12	1740	<1	2.63	55	0.025	8	<5	0.04	31	314	4	0.22	<5	<10	113	<5	14	78	18	
15-KAS-002	51	52	1.193013	3	<5	<5	<0.3	6.64	<3	196	1	<2	4.78	<0.3	59	6	165	12.2	18	<1	0.53	2.1	7	1650	<1	3.24	49	0.052	8	<5	0.11	25	363	8	0.28	<5	<10	104	<5	18	73	37	
15-KAS-002	52	53	1.193014	3	<5	<5	0.5	5.91	<3	159	<1	3	5.53	0.7	74	11	185	15.7	22	<1	0.49	3.14	9	2110	<1	2.08	55	0.039	<3	<5	0.44	27	236	31	0.99	<5	<10	345	<5	19	98	87	
15-KAS-002	53	54	1.193015	7	<5	<5	<0.3	5.69	4	117	<1	<2	5.68	0.9	73	6	263	14.9	18	<1	0.38	2.98	8	1890	<1	1.98	57	0.027	8	<5	0.11	31	274	<2	0.29	<5	<10	145	<5	17	96	29	
15-KAS-002	54	55	1.193016	6	<5	<5	<0.3	6.17	<3	149	1	3	6.33	<0.3	68	6	262	11.7	21	<1	0.47	2.86	8	1610	<1	2.47	47	0.026	9	<5	0.03	29	382	10	0.19	<5	<10	88	<5	14	96	18	
15-KAS-002	55	56	1.193017	10	<5	<5	1.2	6.62	8	105	1	<2	5.72	<0.3	68	12	389	11.6	17	<1	0.33	2.74	7	1660	<1	2.57	91	0.049	8	<5	0.18	25	380	<2	0.18	<5	<10	121	<5	15	93	19	
15-KAS-002	56	57	1.193018	5	<5	<5	<0.3	6.41	<3	247	2	3	4.94	<0.3	49	6	207	10.8	19	<1	0.7	2.15	8	1500	<1	3.1	30	0.069	6	<5	0.06	17	389	<2	0.15	<5	<10	48	<5	21	81	23	
15-KAS-002	57	58	1.193019	3	<5	<5	<0.3	6.3	4	242	1	4	4.97	0.7	54	3	121	11.1	15	<1	0.66	2.37	10	1600	<1	2.81	27	0.05	8	<5	0.11	19	409	15	0.13	<5	<10	45	<5	16	75	12	
15-KAS-002	58	59	1.193021	5	<5	<5	<0.3	5.71	<3	152	<1	<2	6.67	0.5	61	6	159	11.3	19	<1	0.52	3.02	8	1490	<1	2.28	28	0.021	8	<5	0.02	24	408	<2	0.31	<5	<10	102	<5	12	82	49	
15-KAS-002	59	59.91	0.91	1193022	3	<5	<5	<0.3	4.65	26	412	<1	<2	7.27	<0.3	81	8	528	13.3	15	<4	1.65	3.35	18	1590	<1	1	75	0.023	8	<5	0.06	32	216	7	0.21	<5	<10	90	<5	14	92	16
15-KAS-002	59.91	60.91	1.193023	6	<5	<5	<0.3	5.45	<3	267	<1	8	6.5	0.3	68	5	165	11.9	19	<1	1.01	3.01	16	1570	<1	1.56	53	0.031	6	<5	0.02	30	283	10	0.14	7	<10	83	<5	13	86	11	
15-KAS-002	60.91	62.21	1.3	1193024	8	<5	<5	0.7	6.6	11	124	1	3	6.07	<0.3	64	4	286	12.4	17	<1	0.37	2.69	7	1480	<1	2.55	48	0.037	11	<5	0.04	27	378	4	0.32	<5	<10	115	<5	15	87	50
15-KAS-002	62.21	63.27	1.06	1193025	8	<5	<5	0.3	6.41	<3	114	1	3	5.63	<0.3	61	7	263	12.2	14	<1	0.33	2.53	7	1570	<1	2.41	49	0.031	11	<5	0.08	27	342	2	0.48	<5	<10	135	<5	15	87	58
15-KAS-002	63.27	64.27	1.193026	44	<5	<5	0.6	6.21	<3	162	<1	<2	6.39	0.5	93	11	1490	13.1	16	<1	0.5	3.03	7	1620	<1	2.03	194	0.031	8	<5	0.42	29	290	4	0.46	<5	<10	164	<5	14	112	38	
15-KAS-002	64.27	66.27	1.193027	110	9	<5	<5	0.4	6.11	<3	142	<1	<2	6.02	<0.3	110	24	374	13.6	16	<1	0.49	3.86	11	1610	<1	1.55	195	0.036	9	<5	0.21	19	222	<2	0.64	<5	<10	325	<5	15	102	80
15-KAS-002	66.26	70.26	1.193028	6	<5	<5	<0.3	6.65	6	481	<1	<2	5.14	0.6	66	25	340	10.8	17	<1	1.33	2.58	12	1490	<1	2.57	72	0.044	14	<5	0.63	29	362	5	0.41	<5	<10	137	<5	14	83	41	
15-KAS-002	70.26	71.22	0.96	1193029	3	<5	<5	<0.3	6.29	<3	91	<1	3	6.11	0.4	41	119	69	7.38	15	<1	0.46	3.52	22	1310	<1	1.92	135	0.112	4	<5	0.01	22	228	<2	0.17	<5	<10	80	<5	18	84	54
15-KAS-002	71.4	72.4	1.193030	<2	<5	<5	<0.3	4.7	9	65	<1	<2	4.09	<0.3	51	1010	9	6	13	<1	0.38	7.7	29	1030	<1	1.27	474	0.057	<3	<5	<0.01	19	97	<2	0.33	<5	<10	123	<5	10	77	75	
15-KAS-002	72.4	73.4	1.193031	<2	<5	<5	<0.3	4.6	<3	27	<1	<2	4.8	1.2	61	1240	9	6.47	12	<1	0.17	9.78	34	1210	<1	0.27	623	0.068	<3	<5	<0.01												

Kasabonika Minerals Corp.

Hole Number:

15-KAS-003

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<b>Azimuth:</b>	<u>Drilling</u> 0	<b>Length:</b>	<u>Casing</u> 12.77 meters	<b>Township:</b>	<u>Location</u> BMA 535882	<b>Contractor:</b>	<u>Other</u> Berube Repairs
<b>Dip:</b>	90	<b>Pulled:</b>	Yes	<b>Claim No:</b>	4262682	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	69.06 meters	<b>Capped:</b>		<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	22-Mar-15	<b>Cemented:</b>	No	<b>East:</b>	409520	<b>Survey Date:</b>	
<b>Completed:</b>	23-Mar-15			<b>North:</b>	5941775	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No		<u>Core</u>	<b>Elevation:</b>	181	<b>Date Logged:</b>	24-Mar-15
<b>Wedged From:</b>		<b>Size:</b>	BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
<b>Target:</b>	William Bay East					<b>Sampler:</b>	L. Beardy
<b>Comments:</b>	Drilled on Lake Ice; Water Depth 6m. No deviation test - vertical hole						

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Depth (m)	<u>Deviation Test (corrected)</u>			
	Azimuth	Dip	Type	Mag

Hole ID	From	To	Litho	Modifier	Angle	Comments
15-KAS-003	0	6	WATER			
15-KAS-003	6	12.77	OB			Clay rich lake bottom sediments; >4m till
15-KAS-003	12.77	38.28	MV			light to medium grey mv; ≤3% disseminated pyrite; moderate chlorite;
15-KAS-003	38.28	45.65	MS		30	medium grey fine grained ms; occasional milky quartz stringers ≤2mm; <1% disseminated pyrite;
15-KAS-003	45.65	69.06	MV			light to medium grey mv; ≤1% disseminated pyrite; moderate chlorite; weak to moderate silicification

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-003	15	16	1	1193109	<2	<5	<5	0.6	6.98	8	463	3	<2	2.74	0.5	24	5	20	8.48	25	2	1.18	1.25	17	1230	<1	3.54	3	0.122	3	<5	0.14	16	237	<2	0.23	<5	<10	7	<5	31	61	149
15-KAS-003	17.24	18.44	1.2	1193110	<2	<5	<5	<0.3	6.56	9	257	2	<2	2.54	0.4	14	41	33	6.78	21	<1	0.91	1.04	16	895	<1	3.32	4	0.097	4	<5	0.23	13	233	3	0.41	<5	<10	7	<5	37	44	168
15-KAS-003	19.9	21.1	1.2	1193111	<2	<5	<5	0.4	6.89	9	299	2	6	1.94	0.4	20	9	3	9.8	22	<1	2.18	2.54	69	1190	<1	0.77	6	0.118	<3	<5	<0.01	21	184	12	0.22	5	<10	9	<5	34	54	78
15-KAS-003	22.9	23.9	1	1193112	<2	<5	<5	0.5	6.52	18	307	2	<2	2.62	0.9	20	41	5	8.71	22	<1	1.78	2.13	45	1030	<1	1.93	5	0.101	<3	<5	0.01	21	254	<2	0.32	<5	<10	12	<5	31	49	113
15-KAS-003	28.1	29	0.9	1193113	10	<5	<5	0.5	6.63	4	221	2	<2	3.08	0.8	19	9	13	8.47	25	2	0.76	1.26	18	1060	<1	3.02	3	0.167	6	<5	0.06	17	213	12	0.4	<5	<10	8	<5	33	80	162
15-KAS-003	29	29.9	0.9	1193114	<2	<5	<5	0.8	6.78	9	290	2	<2	2.41	0.4	15	6	21	9.01	24	1	1.11	1.36	19	981	<1	2.96	4	0.197	<3	<5	0.09	14	172	5	0.38	<5	<10	7	<5	48	54	240
15-KAS-003	38.8	39.8	1	1193115	<2	<5	<5	0.7	6.67	<3	198	2	<2	4.87	0.6	13	7	5	6.56	23	2	0.53	1.06	14	1100	<1	3.39	5	0.126	<3	<5	0.05	14	246	5	0.32	<5	<10	5	<5	36	39	207
15-KAS-003	40.52	41.67	1.15	1193116	8	<5	<5	0.6	6.77	<3	302	2	<2	2.82	0.8	13	8	15	6.71	23	2	0.69	1.13	11	943	<1	3.56	2	0.1	<3	<5	0.12	13	319	11	0.27	<5	<10	5	<5	30	46	210
15-KAS-003	52.72	53.52	0.8	1193117	<2	<5	<5	1.1	5.65	6	903	2	<2	3.12	0.8	16	11	17	7.46	22	<1	1.06	0.93	9	1180	1	2.71	2	0.143	<3	<5	0.26	12	228	18	0.65	<5	<10	9	<5	26	60	298
15-KAS-003	56.9	58	1.1	1193118	<2	<5	<5	0.8	6.27	3	>1000	2	<2	3.12	0.7	16	10	23	7.87	22	2	1.12	1.04	12	1320	<1	2.71	2	0.129	<3	<5	0.18	14	195	9	0.32	<5	<10	6	<5	34	74	216



Kasabonika Minerals Corp.

Hole Number: 15-KAS-004

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<b>Azimuth:</b>	<u>Drilling</u> 315	<b>Length:</b>	<u>Casing</u> 1.41 meters	<b>Township:</b>	<u>Location</u> BMA 535882	<b>Contractor:</b>	<u>Other</u> Berube Repairs
<b>Dip:</b>	55	<b>Pulled:</b>	No	<b>Claim No:</b>	3008869	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	44.67 meters	<b>Capped:</b>	No	<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	24-Mar-15	<b>Cemented:</b>	No	<b>East:</b>	411575	<b>Survey Date:</b>	
<b>Completed:</b>	25-Mar-15			<b>North:</b>	5938425	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No		<u>Core</u>	<b>Elevation:</b>	184	<b>Date Logged:</b>	26-Mar-15
<b>Wedged From:</b>		<b>Size:</b>	BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
<b>Target:</b>	Wolverine Bay sulphide occurrence					<b>Sampler:</b>	L. Beardy
<b>Comments:</b>							

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<u>Deviation Test (corrected)</u>					
Depth (m)	Azimuth	Dip	Type	Mag	Temp
48	320.4	53.1	EZ Shot	5781	9

Hole ID	From	To	Litho	Comments
15-KAS-004	0	1.41	OB	
15-KAS-004	1.41	1.96	TON	felsic volcanic; boulder?
15-KAS-004	1.96	15.09	MV	medium grey MV; ≤3% disseminated + blebby pyrite; quartz veins ≤5cm; local felsic intrusive material (diorite/tonalite/...)
15-KAS-004	15.09	19.18	MS	medium green ms; ≤3% disseminated pyrite/pyrrhotite
15-KAS-004	19.18	19.86	FI	medium grained felsic intrusive (granodiorite?)
15-KAS-004	19.86	28.57	MV	medium-dark grey/green mv; ≤2% disseminated pyrite; quartz veins ≤3cm; locally moderate to strong chlorite alteration
15-KAS-004	28.57	31.51	MV	dark grey medium grained mv; quartz stringers ≤3mm; ≤1% disseminated pyrite;
15-KAS-004	31.51	34.73	MV	fine grained mv
15-KAS-004	34.73	41.7	MV	medium grained mv; ≤2% disseminated pyrite; irregular vein at 34.73-35.33m
15-KAS-004	41.7	44.67	FI	medium grained felsic intrusive (diorite?)

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-004	3.1	4.18	1.08	1193119	<2	33	29	<0.3	7.59	<3	42	<1	<2	7.59	0.6	45	35	10	7.63	18	1	0.54	3.84	18	1300	<1	1.46	66	0.021	5	<5	0.01	53	69	<2	0.36	<5	<10	249	<5	15	71	32
15-KAS-004	4.18	4.89	0.71	1193121	<2	<5	<5	0.5	7.25	<3	>1000	<1	<2	2.56	<0.3	13	72	15	2.62	18	<1	2.71	1.35	22	434	<1	2.45	46	0.056	15	<5	0.02	9	373	3	0.22	<5	<10	56	<5	10	45	111
15-KAS-004	4.89	5.89	1.1	1193122	4	34	24	<0.3	7.53	3	375	<1	<2	7.02	1.1	48	108	60	8.39	17	<1	0.88	4.6	32	1320	2	1.82	100	0.086	<3	<5	0.05	48	373	12	0.51	<5	<10	259	<5	17	86	45
15-KAS-004	5.89	6.9	1.01	1193123	3	36	28	0.4	7.23	<3	136	<1	<2	6.21	0.8	49	42	198	7.33	16	<1	0.93	3.76	25	1360	1	2.02	58	0.02	<3	<5	0.12	48	105	5	0.33	<5	<10	233	<5	16	85	34
15-KAS-004	6.9	8.1	1.2	1193124	<2	16	13	0.4	7.1	<3	535	<1	<2	6.31	0.7	48	235	106	7.38	17	<1	1.17	4.37	31	1210	1	1.86	129	0.109	<3	<5	0.09	36	421	11	0.51	<5	<10	213	<5	17	82	60
15-KAS-004	8.1	9.1	1.1	1193125	8	11	8	<0.3	7.1	<3	625	<1	<2	6.27	0.8	40	262	165	6.29	17	<1	1.38	3.94	29	1040	<1	1.82	140	0.11	<3	<5	0.08	31	418	8	0.4	<5	<10	160	<5	16	72	52
15-KAS-004	9.1	10	0.9	1193126	<2	40	35	<0.3	8.26	<3	68	<1	<2	9.46	0.5	49	56	17	6.39	18	<1	0.37	3.32	9	1020	<1	1.68	70	0.026	<3	<5	0.02	64	78	<2	0.33	<5	<10	258	9	15	69	21
15-KAS-004	10	11.3	1.3	1193127	<2	45	34	<0.3	7.96	16	130	<1	2	9.65	<0.3	37	60	31	4.51	20	6	0.32	2.34	11	883	<1	1.18	63	0.026	12	14	0.03	49	86	15	0.25	<5	<10	172	<5	16	60	28
15-KAS-004	12.78	13.58	0.8	1193128	<2	<5	<5	<0.3	10.8	<3	372	1	<2	6.11	<0.3	24	29	57	4.9	22	2	0.75	2.01	24	720	2	3.53	30	0.082	<3	<5	0.17	15	753	6	0.29	6	<10	92	<5	8	68	29
15-KAS-004	15.1	16.15	1.05	1193129	<2	5	<5	<0.3	9.5	3	278	<1	<2	5.94	0.9	30	35	71	5.62	22	<1	0.75	2.53	28	914	2	2.85	49	0.067	5	5	0.25	18	501	30	0.38	<5	<10	135	<5	9	81	37
15-KAS-004	17.24	18.55	1.31	1193130	<2	13	12	0.4	8.12	5	123	<1	<2	7.84	0.5	47	70	140	8.75	19	<1	0.76	3.83	24	1540	2	1.49	84	0.031	<3	<5	0.47	36	135	7	0.5	<5	<10	228	<5	18	90	60
15-KAS-004	20.17	21.17	1.1	1193131	<2	12	12	<0.3	7.9	<3	128	<1	<2	7.34	0.6	52	66	90	9.49	19	<1	0.72	3.94	24	1580	<1	1.58	93	0.032	<3	<5	0.22	38	152	<2	0.5	<5	<10	237	<5	18	86	41
15-KAS-004	22.57	23.77	1.2	1193132	<2	13	11	<0.3	8.24	5	119	<1	<2	7.55	1.3	49	71	118	9.14	20	2	0.61	3.75	21	1500	<1	1.69	79	0.029	<3	<5	0.37	36	153	<2	0.5	<5	<10	238	<5	17	79	40
15-KAS-004	23.85	24.65	0.8	1193133	<2	9	8	<0.3	7.31	<3	104	<1	<2	5.93	0.5	39	66	65	6.65	15	<1	1.04	3.02	17	1100	<1	1.74	75	0.017	7	<5	0.17	28	98	4	0.25	<5	<10	138	<5	15	62	40
15-KAS-004	25.65	26.47	0.82	1193134	<2	12	10	<0.3	7.76	<3	183	<1	<2	6.75	0.4	46	88	93	7.65	17	2	0.62	3.67	19	1360	19	1.79	96	0.02	<3	<5	0.24	30	175	2	0.43	<5	<10	189	<5	14	73	48
15-KAS-004	27.23	28.35	1.12	1193135	<2	17	14	<0.3	7.55	<3	205	<1	<2	7.21	0.5	42	292	17	6.55	15	<1	0.59	4.32	17	1210	2	1.74	134	0.023	3	<5	0.05	32	199	11	0.29	<5	<10	162	<5	13	74	48
15-KAS-004	29.7	30.7	1.1	1193136	125	<5	<5	0.5	9.06	<3	774	1	<2	3.5	0.6	12	28	12	2.75	19	2	1.39	0.98	29	346	<1	3.2	11	0.055	4	<5	0.04	6	563	6	0.24	<5	<10	45	<5	7	44	98
15-KAS-004	31.68	32.68	1.1	1193137	<2	<5	<5	0.4	8.56	<3	735	2	<2	3.34	<0.3	13	12	22	2.99	19	<1	1.65	0.93	31	479	<1	2.98	11	0.075	8	<5	0.07	7	532	7	0.25	<5	<10	52	<5	9	53	119
15-KAS-004	33.5	34.8	1.3	1193155	<2	<5	<5	0.6	8.76	<3	869	1	<2	3.32	0.4	12	14	32	3.21	19	<1	1.79	0.99	30	475	<1	2.92	14	0.092	10	<5	0.14	7	540	6	0.27	<5	<10	57	<5	10	52	131

Kasabonika Minerals Corp.

Hole Number: 15-KAS-005

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<b>Azimuth:</b>	<u>Drilling</u> 0	<b>Length:</b>	<u>Casing</u> 13.86 meters	<b>Township:</b>	<u>Location</u> BMA 535882	<b>Contractor:</b>	<u>Other</u> Berube Repairs
<b>Dip:</b>	90	<b>Pulled:</b>	No	<b>Claim No:</b>	3008869	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	81.25 meters	<b>Capped:</b>	No	<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	26-Mar-15	<b>Cemented:</b>	No	<b>East:</b>	411200	<b>Survey Date:</b>	
<b>Completed:</b>	27-Mar-15			<b>North:</b>	5938027	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No		<u>Core</u>	<b>Elevation:</b>	180	<b>Date Logged:</b>	28-Mar-15
<b>Wedged From:</b>		<b>Size:</b>	BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
<b>Target:</b>	Wolverine Bay					<b>Sampler:</b>	L. Beardy
<b>Comments:</b>	Drilled on Lake Ice; water depth 8m; No Deviation Test - Vertical Hole						

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Depth (m)	<u>Deviation Test (corrected)</u>			
	Azimuth	Dip	Type	Mag

Hole ID	From	To	Litho	Comments
15-KAS-005	0	8	WATER	
15-KAS-005	8	13.86	OB	lake sediments and boulder rich overburden
15-KAS-005	13.86	27.07	MV	very blocky ground, mostly mv(?); felsic instrusives (granodiorite?) @ 23.59-23.94
15-KAS-005	27.07	32.79	MV	dark grey-black, fine grained mv(?)
15-KAS-005	32.79	38.03	GAB	moderatly chlorite altered, fine grained Gabbro; locally $\leq 3\%$ disseminated pyrite
15-KAS-005	38.03	40.77	FI	Metamorphosed felsic intrusive; vaguely gneissic texture
15-KAS-005	40.77	65.21	GAB	dark grey/green, fine grained gabbro; moderate to strong chlorite; locally $\leq 4\%$ disseminated + blebby pyrite
15-KAS-005	65.21	70.93	MV	dark grey/green, fine grained mv; moderate chlorite; locally $\leq 3\%$ disseminated pyrite
15-KAS-005	70.93	80.36	GAB	dark grey/green, fine grained gabbro; moderate chlorite; $\leq 2\%$ disseminated pyrite
15-KAS-005	80.36	81.25	GAB	medium grained gabbro (?)

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-005	24	25	1.1193138	11193138	<2	<5	<5	<0.3	3.66	3	95	<1	7	9.63	0.3	56	398	24	7.64	10	<1	0.46	7.37	28	1370	<1	0.97	224	0.014	<3	<5	<0.01	55	110	<2	0.24	<5	<10	182	<5	10	60	28
15-KAS-005	27.08	28.1	1.021193139	11193139	6	32	22	0.3	7.16	11	265	<1	<2	5.59	0.8	66	9	186	12.2	23	<1	0.57	3.61	38	1270	<1	2.31	84	0.031	<3	<5	0.02	26	282	24	0.48	<5	<10	273	<5	18	78	47
15-KAS-005	31.26	32.41	1.151193141	11193141	3	6	<5	0.3	2.66	<3	25	<1	<2	5.85	2.5	94	1280	86	8.74	8	1	0.15	13.3	6	1380	<1	0.89	1160	0.011	104	<5	0.04	27	81	<2	0.24	<5	<10	144	<5	6	136	18
15-KAS-005	32.41	33.41	1.1193142	11193142	<2	5	5	0.3	2.93	<3	57	<1	<2	4.94	1.3	89	1230	94	7.46	8	<1	0.39	13.3	12	1380	<1	0.54	1240	0.01	10	<5	0.04	24	62	8	0.19	<5	<10	123	<5	7	41	19
15-KAS-005	33.41	34.44	1.031193143	11193143	<2	5	<5	0.4	1.59	<3	109	<1	<2	4.71	1.4	89	1280	192	6.9	11	5	0.33	11.6	12	1190	<1	0.65	1170	0.013	47	10	0.05	10	75	<2	0.18	23	<10	109	10	5	67	27
15-KAS-005	38.1	38.88	0.781193144	11193144	<2	<5	<5	0.5	7.14	<3	>1000	<1	<2	1.18	<0.3	4	26	37	1.47	15	<1	2.28	0.6	38	199	2	2.29	14	0.019	18	<5	0.02	<4	240	2	0.1	<5	<10	123	<5	4	34	94
15-KAS-005	42.01	43.05	1.041193145	11193145	<2	6	5	<0.3	2.43	<3	24	<1	<2	5.54	1.5	95	1750	43	7.19	6	<1	0.09	13.4	21	1230	<1	0.31	1330	0.01	13	<5	0.02	23	31	7	0.19	<5	<10	123	<5	6	36	16
15-KAS-005	44.67	46	1.331193146	11193146	<2	<5	<5	<0.3	3.12	<3	125	<1	<2	5.08	1.4	81	1220	33	7	11	<1	0.54	12.4	12	1330	<1	0.52	1050	0.012	38	<5	0.02	21	67	<2	0.2	<5	<10	118	<5	6	55	28
15-KAS-005	47.72	48.9	1.181193147	11193147	2	7	7	<0.3	2.84	3	<7	<1	<4	7.17	0.9	100	1040	52	8.46	9	<1	0.04	11.9	14	915	<1	0.32	953	0.011	3	<5	0.09	28	22	<2	0.25	<5	<10	147	<5	7	30	22
15-KAS-005	50.94	52.06	1.121193148	11193148	<2	6	<5	0.3	1.79	<3	7	<1	<2	2.87	0.8	89	2260	7	7.97	5	<1	0.03	16.2	2	1020	<1	0.12	1450	0.008	<3	6	0.19	18	12	12	0.16	<5	<10	98	<5	4	61	14
15-KAS-005	52.06	52.82	0.761193286	11193286	<2	<5	<5	<0.3	1.52	<3	11	<1	<2	1.65	<0.3	89	2280	4	6.91	8	<1	0.04	17.1	3	798	<1	0.09	1490	0.008	13	<5	0.06	15	10	21	0.14	<5	<10	81	5	4	45	13
15-KAS-005	52.82	53.82	1.1193287	11193287	<2	<5	<5	<0.3	1.57	<3	21	<1	<3	1.93	<0.3	102	1530	3	7.35	7	<1	0.12	17.3	3	854	26	0.09	1540	0.006	39	<5	0.09	16	7	6	0.12	<5	<10	80	<5	4	40	10
15-KAS-005	53.82	54.82	1.1193288	11193288	<2	<5	<5	<0.3	1.9	<3	76	<1	5	2.38	<0.3	107	1430	9	7.31	5	<1	0.46	17	9	1010	85	0.11	1450	0.007	42	<5	0.09	15	9	11	0.13	<5	<10	78	<5	5	81	13
15-KAS-005	54.82	55.82	1.1193289	11193289	<2	<5	<5	<0.3	1.54	<3	<7	<1	<2	2.09	<0.3	111	1690	4	8.01	6	<1	0.03	17.8	1	1070	<1	0.11	1760	0.006	66	<5	0.04	16	6	15	0.13	<5	<10	86	<5	4	51	11
15-KAS-005	55.82	56.9	1.081193290	11193290	<2	<5	<5	<0.3	1.59	<3	<7	<1	2	1.9	<0.3	121	1580	<1	8.86	5	<1	0.02	18.3	1	1090	<1	0.1	1810	0.008	77	<5	0.04	17	6	29	0.14	<5	<10	91	<5	4	46	11
15-KAS-005	56.9	57.9	1.1193291	11193291	<2	<5	<5	<0.3	1.58	<3	<7	<1	11	2.66	<0.3	142	2080	21	8.02	4	<1	0.02	18.2	4	1230	<1	0.09	1840	0.007	111	<5	0.05	17	5	5	0.14	<5	<10	89	<5	4	72	12
15-KAS-005	57.9	58.94	1.041193292	11193292	<2	<5	<5	<0.3	1.17	<3	<7	<1	<2	2.3	<0.3	108	1770	18	7.1	6	<1	0.01	16.6	1	1090	<1	0.11	1710	0.005	79	<5	0.06	13	6	6	0.12	<5	<10	73	5	3	125	10
15-KAS-005	59.91	0.971193293	11193293	11193293	<2	<5	<5	<0.3	1.36	<3	9	<1	17	2.03	<0.3	122	1900	<1	7.24	6	<1	0.03	17.3	1	1080	<1	0.11	1760	0.006	90	<5	0.05	14	6	<2	0.12	<5	<10	74	<5	3	48	10
15-KAS-005	59.91	60.55	0.641193294	11193294	<2	<5	<5	<0.3	1.39	<3	<7	<1	<2	2.04	<0.3	101	2010	<1	7.45	7	2	0.03	18.3	1	1050	<1	0.12	1850	0.006	70	<5	0.05	15	5	8	0.13	<5	<10	79	<5	4	51	10
15-KAS-005	60.55	61.55	1.1193149	11193149	<2	<5	<5	<0.3	1.45	<3	<7	<1	6	1.7	<0.3	99	1030	2	7.36	5	2	0.03	18	<1	888	<1	0.1	1750	0.006	46	<5	0.07	15	5	3	0.11	<5	<10	76	<5	3	32	10
15-KAS-005	61.55	63	1.451193295	11193295	<2	<5	<5	<0.3	1.32	<3	<7	<1	8	1.77	<0.3	116	1560	5	7.42	3	<1	0.02	18.6	<1	875	<1	0.1	1840	0.005	32	<5	0.1	15	5	3	0.11	<5	<10	72	6	3	153	9
15-KAS-005	63	64	1.1193296	11193296	<2	<5	7	<0.3	1.35	<3	<7	<1	<2	0.92	<0.3	91	1580	<1	6.76	3	<1	0.02	18.9	<1	778	<1	0.06	1800	0.005	9	<5	0.13	14	4	<2	0.1	<5	<10	67	<5	3	20	8
15-KAS-005	64	65.1	1.1193297	11193297	<2	<5	<5	<0.3	1.29	<3	<7	<1	6	1.4	<0.3	98	1380	1	7.44	4	<1	0.02	18.7	<1	860	<1	0.1	1910	0.006	29	<5	0.14	14	6	6	0.1	<5	<10	70	<5	3	105	9
15-KAS-005	65.1	66.01	0.911193150	11193150	<2	<5	<5	0.3	3.39	<3	505	<1	<2	1.98	1.6	87	1070	9	5.58	8	1	1.81	15	32	894	<1	0.08	1250	0.005	153	<5	0.07	11	39	3	0.14	<5	<10	64	<5	5	125	43
15-KAS-005	66.01	67.01	1.1193298	11193298	<2	<5	<5	<0.3	1.57	<3	30	<1	<2	2.25	<0.3	113	1180	5	7.81	5	<1	0.18	17.7	2	979	<1	0.14	1830	0.007	21	<5	0.1	14	5	9	0.11	<5	<10	71	<5	4	99	12
15-KAS-005	67.01	67.66	0.651193299	11193299	<2	<5	<5	<0.3	1.51	<3	12	<1	<2	2.23	<0.3	109	1240	5	7.41	7	<1	0.06	17.9	3	1060	<1	0.13	1840	0.006	20	<5	0.13	15	8	<2	0.11	<5	<10	72	<5	4	89	10
15-KAS-005	67.66	68.36	0.71193151	11193151	<2	<5	<5	<0.3	1.67	<3	66	<1	<2	2.03	1.1	107	1620	10	6.71	4	<1	0.31	16.7	7	978	<1	0.1	1690	0.006	42	<5	0.15	14	44	<2	0.11	<5	<10	67	<5	4	180	15
15-KAS-005	68.36	69.06	0.71193152	11193152	<2	<5	<5	<0.3	2.69	<3	338	<1	3	3.67	2.2	84	1240	7	6.07	8	<1	1.23	13.2	35	894	<1	0.18	1200	0.015	43	<5	0.13	11	62	2	0.18	<5	<10	75	<5	5	201	41
15-KAS-005	69.06	70.06	1.1193301	11193301	<2	<5	<5	1.1	8.67	4	>1000																																

Kasabonika Minerals Corp.

Hole Number: 15-KAS-006

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<b>Azimuth:</b>	<u>Drilling</u> 50	<b>Length:</b>	<u>Casing</u> 4.31 meters	<b>Township:</b>	<u>Location</u> BMA 535882	<b>Contractor:</b>	<u>Other</u> Berube Repairs
<b>Dip:</b>	55	<b>Pulled:</b>	No	<b>Claim No:</b>	3008869	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	181.83 meters	<b>Capped:</b>	No	<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	12-Jun-15	<b>Cemented:</b>	No	<b>East:</b>	411420	<b>Survey Date:</b>	
<b>Completed:</b>	20-Jun-15			<b>North:</b>	5938245	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No			<b>Elevation:</b>	183	<b>Date Logged:</b>	21-Jun-15
<b>Wedged From:</b>		<b>Size:</b>	<u>Core</u> BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
<b>Target:</b>	Wolverine Bay					<b>Sampler:</b>	L. Beardy
<b>Comments:</b>	No Deviation Test						

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Depth (m)	<u>Deviation Test (corrected)</u>				
	Azimuth	Dip	Type	Mag	Temp

Hole ID	From	To	Litho	Modifier	Angle	Comments
15-KAS-006	0	4.31	CAS			casing
15-KAS-006	4.31	6.84	GAB			medium grained gabbro, <0.01% disseminated pyrite, ≤2cm white-smoky quartz veins/stringers
15-KAS-006	6.84	8.1	PXT			fine grained pyroxinite, ≤0.5% disseminated+blebby pyrite, ≤3cm smoky quartz veins/stringers
15-KAS-006	8.1	8.5	DIKE	FLSC		cg felsic dyke
15-KAS-006	8.5	13.31	PXT			fine grained pyroxinite, ≤0.5% disseminated+blebby pyrite, ≤3cm smoky quartz veins/stringers; moderate chlorite alteration. Smoky, light grey-pinkish quartz vein @ 12.94-13.16
15-KAS-006	13.31	16.75	TONA			mg tonalite, ≤1% disseminated pyrite; medium pink quartz vein @ 13.65-14.61m
15-KAS-006	16.75	18.74	PXT			fg pyroxinite, ≤0.5% disseminated pyrite+pyrrhotite, wk chlorite alteration
15-KAS-006	18.74	19.32	TONA			mg tonalite, ≤0.5% disseminated py+po
15-KAS-006	19.32	22.81	GAB			mg gabbro, 1-2% diss py+po, tr cpy
15-KAS-006	22.81	24.58	GN			medium grade gneiss
15-KAS-006	24.58	25.09	TONA			mg tonalite, ≤0.5% disseminated py+po
15-KAS-006	25.09	26.61	DIKE	MFC		diabase dike, white quartz veins ≤2cm
15-KAS-006	26.61	28.25	GAB			mg gabbro, ≤1% py+po, ≤0.5% cpy, loc strg chl alt
15-KAS-006	28.25	28.74	DIKE	MFC		diabase dike, ≤2% py+po
15-KAS-006	28.74	33.09	GAB			mg gabbro, ≤1% py+po, ≤0.5% cpy
15-KAS-006	33.09	34.62	DIKE	MFC		diabase dike, ≤2% diss & ff py+po
15-KAS-006	34.62	35.34	GAB			mg gabbro, irreg wht qtz str
15-KAS-006	35.34	35.99	MONZ		35	mg monzonite
15-KAS-006	35.99	36.43	GAB		35	mg gabbro
15-KAS-006	36.43	36.57	MONZ			mg monzonite
15-KAS-006	36.57	39.2	GAB			mg gabbro; ≤3% py+po, ≤1% cpy; loc mod-strg chl
15-KAS-006	39.2	39.73	DIKE	FLSC		felsic dike/quartz vein
15-KAS-006	39.73	43.67	GAB			mg gabbro; ≤3% py+po, ≤1% cpy; loc mod-strg chl
15-KAS-006	43.67	47.23	LGAB			mg leucogabbro, wk (loc mod-strg) chl, ≤2% py+po, trc cpy; loc ≤5cm flsc dike
15-KAS-006	47.23	48.68	TONA			mg tonalite



15-KAS-006	48.68	55.33	LGAB			mg leucogabbro, wk (loc mod-strg) chl, ≤2% py+po, trc cpy; loc ≤5cm flsc dikes; red qtz vn @49.81-50.77m
15-KAS-006	55.33	58.92	TONA			mg tonalite, ≤0.5% diss py-po
15-KAS-006	58.92	65.61	LGAB			mg-cg leucogabbro; ≤2% py-po, trc cpy; mod chl; ≤12cm wht qtz vns;
15-KAS-006	65.61	69.15	PXT			mg pyroxinite; mod chl; ≤1% py-po; ~16cm wht qtz vn
15-KAS-006	69.15	82.52	LGAB			mg-cg leucogabbro; ≤2% py-po, trc cpy; mod chl; mod chl to 72.1m - strg chl to 73.6 - wk chl to 82.52
15-KAS-006	82.52	83.04	MONZ		60	mg monzonite
15-KAS-006	83.04	85.02	GAB		55	mg-cg gabbro; ≤2% diss py-po; wk chl
15-KAS-006	85.02	85.87	SYNT	QTZ		cg quartz syenite
15-KAS-006	85.87	88.26	GAB			mg gabbro, ≤0.5% py+po, trc cpy
15-KAS-006	88.26	87.7	SYNT	QTZ		cg quartz syenite
15-KAS-006	87.7	88.5	DIKE	MFC		diabase dike
15-KAS-006	88.5	89.32	GAB			mg gabbro; ≤0.5% py
15-KAS-006	89.32	92.18	TONA			mg tonalite
15-KAS-006	92.18	97.63	GAB			mg gabbro, ≤0.5% py+po, trc cpy; wk-mod chl
15-KAS-006	97.63	97.91	DIKE	MFC		diabase; ≤0.5% py
15-KAS-006	97.91	99.54	GAB			fg gabbro; ≤0.5% diss py; mod chl
15-KAS-006	99.54	100.71	GRDR			mg granodiorite; ≤2% py
15-KAS-006	100.71	123.92	GAB			mg gabbro, ≤1% py+po, trc; wk-mod chl cpy
15-KAS-006	123.92	124.95	GRDR			mg granodiorite; ≤0.5% py
15-KAS-006	124.95	126.37	GAB			mg gabbro
15-KAS-006	126.37	131.13	GRDR			cg granodiorite; ≤0.5% diss py
15-KAS-006	131.13	132.65	SYNT			mg-cg syenite; ~15cm qtz vn
15-KAS-006	132.65	139.1	GAB			fg gabbro; ≤0.5% diss py; mod chl
15-KAS-006	139.1	140.18	TONA			mg tonalite; ≤0.5% diss py
15-KAS-006	140.18	152.02	GAB			mg gabbro; trc-1% diss py, trc-0.5% cpy; wk-mod chl
15-KAS-006	152.02	154.44	TONA			mg tonalite
15-KAS-006	154.44	155.7	DIKE	MFC		≤2% blb py-po
15-KAS-006	155.7	166.86	DIO			cg diorite
15-KAS-006	166.86	171.14	GAB			fg gabbro; ≤0.5% diss py; wk chl
15-KAS-006	171.14	171.7	DIKE	MFC		mafic dike; trc diss py
15-KAS-006	171.7	181.83	GAB			mg gabbro; trc diss py; loc ≤15cm wht qtz vns

Hold ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	U (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-006	6.83	7.73	0.9	1193156	<2	<5	<5	1	7.59	5	313	<1	<2	6.54	<0.3	72	6	136	8.22	23	<1	0.92	2.71	23	820	<1	1.79	18	0.055	4	5	0.41	24	614	13	0.55	<5	<10	312	5	14	102	39
15-KAS-006	9.12	10.12	1.1	1193157	<2	<5	<5	0.3	7.37	<3	333	<1	<2	6.98	<0.3	67	13	188	12.8	23	<1	0.99	3.4	26	1040	<1	1.84	35	0.096	<3	<5	0.46	29	657	13	0.41	<5	<10	192	<5	19	117	28
15-KAS-006	10.12	11.1	0.8	1193158	<2	<5	<5	<0.3	7.99	<3	499	<1	<2	6.76	<0.3	60	14	111	12.3	25	<1	1.13	3.03	28	944	<1	1.91	20	0.077	5	<5	0.48	26	794	27	0.7	<5	<10	245	<5	19	112	43
15-KAS-006	11.1	12.19	1.09	1193159	<2	<5	<5	0.4	8.03	<3	427	<1	<2	6.38	<0.3	56	9	111	11.3	24	<1	1.09	2.87	31	863	<1	1.95	16	0.112	<3	<5	0.38	25	734	12	0.87	<5	<10	273	<5	19	103	47
15-KAS-006	12.19	13.2	1.01	1193161	<2	<5	<5	0.3	7.11	<3	311	<1	<2	6.59	<0.3	51	12	96	10.2	22	<1	1.58	2.52	33	825	<1	1.92	17	0.092	6	<5	0.29	22	556	22	0.8	<5	<10	268	<5	19	98	55
15-KAS-006	13.2	14.19	0.99	1193162	<2	<5	<5	0.3	7.11	<3	381	<1	<2	6.75	<0.3	27	17	55	5.65	20	<1	1.7	1.49	33	527	<1	2.42	12	0.063	8	<5	0.15	13	497	<2	0.49	<5	<10	129	<5	13	69	67
15-KAS-006	14.19	15.1	0.91	1193163	<2	<5	<5	0.5	4.53	<3	117	3	<2	0.4	<0.3	<1	23	7	0.32	17	<1	1.59	0.06	4	52	<1	2.4	<1	0.002	20	<5	<0.01	<4	89	<2	0.02	<5	<10	5	<5	2	8	35
15-KAS-006	22.25	23.65	1.4	1193164	<2	<5	<5	0.7	6.84	<3	712	<1	<2	4.35	<0.3	45	11	102	8	21	<1	1.69	2.24	45	742	<1	2.29	18	0.054	<3	<5	0.2	18	515	13	0.7	9	<10	221	<5	11	101	55
15-KAS-006	23.65	24.65	1.1	1193165	<2	<5	<5	0.4	3.17	<3	>1000	<1	<2	1.47	<0.3	10	18	21	1.81	14	<1	0.76	4.09	18	207	<1	2.51	<1	0.025	9	<5	0.03	<4	255	4	0.21	<5	<10	55	<5	2	38	82
15-KAS-006	24.65	25.95	1.3	1193166	<2	<5	<5	<0.3	5.67	<3	>1000	<1	<2	2.54	<0.3	20	48	151	2.3	13	<1	1.04	1.07	13	356	<1	2.15	24	0.016	3	<5	0.12	7	333	3	0.15	<5	<10	61	<5	4	29	63
15-KAS-006	25.95	27	1.05	1193167	<2	7	<5	<0.3	4.85	<3	298	<1	<2	5.25	<0.3	64	800	55	7.45	13	<2	1.75	6.94	45	1240	<1	1.16	561	0.017	3	<5	0.09	25	163	21	0.39	<5	<10	170	<5	13	81	51
15-KAS-006	27	28	1.1	1193168	<2	<5	<5	0.4	4.61	<3	522	<1	<2	4.57	0.7	67	751	24	7	16	<1	1.5	7.06	59	1190	<1	1.02	704	0.013	<3	<5	0.03	18	157	<2	0.19	<5	<10	111	<5	12	98	79
15-KAS-006	28	28.55	0.55	1193169	<2	<5	<5	0.4	7.48	<3	571	<1	<2	4.29	<0.3	35	36	166	5.73	19	<1	1.04	1.76	29	560	<1	2.63	53	0.03	3	<5	0.18	12	588	5	0.29	<6	<10	118	<5	8	68	66
15-KAS-006	34.52	35.15	0.63	1193170	<2	<5	<5	<0.3	6.84	6	336	<1	<2	6.71	<0.3	65	28	256	11.3	22	<1	0.93	2.95	25	906	<1	1.64	85	0.047	<3	<5	0.49	26	545	8	0.43	7	<10	221	<5	15	98	37
15-KAS-006	35.15	36.77	1.62	1193171	<2	<5	<5	0.6	6.82	<3	127	3	<2	1.33	<0.3	6	14	31	11.5	19	<1	1.48	0.26	7	131	<1	3.02	8	0.005	22	<5	0.07	4	119	<2	0.1	<5	<10	32	<5	3	13	69
15-KAS-006	35.77	36.56	0.79	1193172	<2	<5	<5	0.4	7.08	<3	471	1	3	5.35	<0.3	62	19	198	9.39	21	<1	1.62	2.55	25	791	<1	1.8	72	0.038	<3	<5	0.38	25	457	5	0.52	<5	<10	262	<5	12	90	50
15-KAS-006	36.56	37.33	0.77	1193173	7	<5	<5	0.3	5.9	<3	183	<1	<2	8.57	<0.3	68	53	133	11.9	19	<1	0.5	4.36	16	1150	<1	1.09	122	0.045	<3	<5	0.46	42	438	4	0.55	<5	<10	288	<5	16	104	47
15-KAS-006	37.33	38.52	1.19	1193174	<2	<5	<5	0.5	7.67	<3	382	<1	<2	6.3	<0.3	62	19	169	10.4	21	<1	1.08	2.78	33	847	<1	1.83	125	0.068	4	<5	0.25	24	567	12	0.64	<5	<10	324	<5	13	93	46
15-KAS-006	38.52	39.41	0.89	1193175	<2	<5	<5	0.8	2.68	<3	>1000	<1	<2	1.33	<0.3	7	20	24	1.15	12	<1	0.91	0.34	13	119	1	2.13	7	0.029	9	<5	0.05	<4	284	3	0.15	<5	<10	34	<5	3	20	122
15-KAS-006	40.22	41.25	1.03	1193176	<2	<5	<5	0.5	7.23	<3	358	<1	<2	6.53	<0.3	61	17	466	11.3	22	<1	1.2	2.53	32	884	<1	1.72	169	0.074	4	<5	0.41	22	559	24	0.81	<5	<10	384	<5	14	95	48
15-KAS-006	41.25	42.02	0.77	1193177	<2	<5	<5	0.8	6.89	8	228	<1	<2	7.36	<0.3	71	33	324	12.4	21	<1	0.7	3.26	22	1030	<1	1.42	183	0.066	<3	<5	0.89	30	499	12	0.5	<5	<10	334	<5	13	106	42
15-KAS-006	42.02	42.9	0.88	1193178	<2	<5	<5	<0.3	7.43	8	394	<1	<2	5.88	<0.3	61	35	202	10.1	22	<1	1.18	2.21	35	756	<1	1.97	183	0.059	<3	<5	0.4	18	571	4	0.39	<5	<10	264	<5	11	89	36
15-KAS-006	44	45	1.1	1193179	<2	<5	<5	<0.3	6.35	6	313	<1	<2	6.58	<0.3	63	22	224	10.5	21	<1	0.92	2.98	23	970	<1	1.75	151	0.068	6	<5	0.53	25	496	8	0.33	<5	<10	201	<5	13	105	33
15-KAS-006	45	46	1.1	1193181	5	<5	<5	0.4	7.7	4	411	<1	<2	6.52	<0.3	52	19	169	10.1	23	<1	1.3	2.18	36	910	<1	1.68	82	0.082	<3	<5	0.23	28	592	19	0.23	<5	<10	169	<5	20	101	42
15-KAS-006	46	46.77	0.77	1193182	<2	<5	<5	<0.3	7.5	<3	357	<1	<2	6.76	<0.3	43	67	74	7.53	17	<1	1.39	3.11	27	936	<1	1.94	64	0.063	<3	<5	0.16	30	540	<2	0.25	<5	<10	128	<5	20	86	50
15-KAS-006	47.72	48.35	0.63	1193183	<2	<5	<5	0.5	7.21	8	158	1	<2	1.27	<0.3	6	9	12	1.23	13	<1	0.61	0.39	7	199	3	6.07	10	0.027	5	<5	<0.01	<4	275	<2	0.17	<5	<10	34	<5	4	19	68
15-KAS-006	48.35	49.63	1.28	1193184	<2	<5	<5	0.3	7.13	<3	630	1	3	4.15	0.3	29	50	48	5.47	20	<1	0.99	1.34	38	584	<1	2.53	64	0.063	10	<5	0.12	15	525	12	0.44	<5	<10	146	<5	12	80	87
15-KAS-006	49.63	51.1	1.47	1193185	<2	<5	<5	0.6	8.01	3	323	<1	<2	5.66	<0.3	27	31	21	1.5	20	<1	1.23	1.74	26	750	<1	4.06	85	0.071	12	<5	0.09	16	680	9	0.4	<5	<10	146	<5	23	62	101
15-KAS-006	51.1	52.4	1.3	1193186	<2	<5	<5	<0.3	7.56	7	529	1	<2	6.47	<0.3	69	19	218	12.4	23	<1	1.47	2.73	29	919	<1	1.2	174	0.076	5	<5	0.38											

Kasabonika Minerals Corp.

Hole Number: 15-KAS-007

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<b>Azimuth:</b>	<u>Drilling</u>	0	<b>Length:</b>	<u>Casing</u>	2.61 meters	<b>Township:</b>	<u>Location</u>	BMA 535882	<b>Contractor:</b>	Other	Berube Repairs
<b>Dip:</b>		90	<b>Pulled:</b>		No	<b>Claim No:</b>		4265447	<b>Spotted By:</b>		T. Hannon
<b>Length:</b>		54.81 meters	<b>Capped:</b>		No	<b>NTS:</b>		53H9	<b>Surveyed By:</b>		
<b>Started:</b>		21-Jun-15	<b>Cemented:</b>		No	<b>East:</b>		411220	<b>Survey Date:</b>		
<b>Completed:</b>		23-Jun-15		<u>Core</u>		<b>North:</b>		5939090	<b>Logged By:</b>		T. Hannon
<b>Wedged:</b>		No	<b>Size:</b>		BTW	<b>Elevation:</b>		190	<b>Date Logged:</b>		24-Jun-15
<b>Wedged From:</b>			<b>Storage:</b>		Kasabonika	<b>UTM Zone:</b>		16 (NAD 83)	<b>Left in Hole:</b>		Casing
<b>Deviation Corr:</b>		5.92 W				<b>Lab:</b>		ActLabs (Thunder Bay)	<b>Sampling:</b>		Hand Splitter
									<b>Sampler:</b>		L. Beardy
<b>Target:</b>		TQ Kimberlite Target #7									
<b>Comments:</b>		No Deviation Test									

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Depth (m)	<u>Deviation Test (corrected)</u>			Mag	Temp
	Azimuth	Dip	Type		

Hole ID	From	To	Litho	Modifier	Angle	Comments
15-KAS-007	0	2.61	CAS			Casing
15-KAS-007	2.61	7.28	DIO			mg diorite
15-KAS-007	7.28	7.58	SLT			almost fg hornfels
15-KAS-007	7.58	10.76	DIO			mg diorite
15-KAS-007	10.76	27.68	SLT			low grade slate; wht qtz vn @ 17.56-18.01, 18.43-19.31m; starting @ ~25.24m, ≤5% py @ bedding planes
15-KAS-007	27.68	28.16	DIKE	FLSC		mostly k-spar; ~10cm aureole
15-KAS-007	28.16	32.19	SLT			≤3% py @ bdg plns
15-KAS-007	32.19	32.5	TONA			cg tonalite
15-KAS-007	32.5	33.32	SLT			≤3% py @ bdg plns
15-KAS-007	33.32	33.51	DIO			mg diorite
15-KAS-007	33.51	33.95	SLT			<2cm wht qtz vns
15-KAS-007	33.95	54.81	DIO			mg diorite

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-007	7.35	8.35	1.1193228		<2	<5	<5	0.7	7.81	<3	277	1	<2	2.08	<0.3	34	126	39	6.97	18	<1	1.61	1.51	77	1120	<1	2.53	152	0.044	6	<5	0.12	15	99	<2	0.38	<5	<10	106	<5	12	58	163
15-KAS-007	10.76	11.76	1.1193229		<2	<5	<5	0.4	7.18	<3	325	1	<2	6.53	<0.3	29	69	15	5.46	20	<1	0.87	2.23	25	1680	<1	2.2	95	0.102	<3	<5	0.01	18	348	<3	0.29	<5	<10	93	<5	18	61	90
15-KAS-007	11.76	12.76	1.1193230		<2	<5	<5	0.4	7.89	<3	>1000	<1	4	5.7	<0.3	29	72	48	5.65	20	<1	1.26	1.98	36	1570	<1	2.65	95	0.088	3	<5	0.04	16	480	<2	0.2	<5	<10	66	<5	14	65	112
15-KAS-007	12.76	13.86	1.1193231		<2	<5	<5	0.6	8.33	<3	>1000	<1	2	6.2	<0.3	34	107	52	7.19	22	<1	1.13	1.52	27	2240	<1	2.83	123	0.106	3	<5	0.14	20	402	3	0.31	<5	<10	101	<5	20	71	142
15-KAS-007	13.86	15.04	1.1193232		<2	<5	<5	0.4	8.26	<3	357	<1	2	7.02	<0.3	41	118	24	6.89	20	<1	0.54	2.12	18	2330	<1	3.03	156	0.127	<3	<5	0.03	24	312	12	0.3	<5	<10	97	<5	25	76	80
15-KAS-007	15.04	16.06	1.021193233		<2	<5	<5	0.5	7.65	<3	336	<1	2	6.32	<0.3	43	129	56	8.02	17	<1	0.72	3.22	29	2160	<1	2.79	157	0.123	<3	<5	0.05	23	438	22	0.52	<5	<10	155	<5	20	90	120
15-KAS-007	16.06	17.06	1.1193234		<2	<5	<5	0.5	7.67	<3	330	<1	3	4.92	<0.3	41	156	78	7.34	18	<1	1.1	3.15	39	1670	<1	2.74	127	0.124	4	<5	0.09	25	450	16	0.57	<5	<10	171	<5	20	90	113
15-KAS-007	17.06	18.17	1.111193235		<2	<5	<5	0.6	7.06	<3	238	<1	2	4.32	<0.3	35	110	38	5.85	17	<1	1	2.41	33	1410	<1	2.63	106	0.093	<3	<5	0.05	19	313	13	0.36	<5	<10	122	<5	18	72	88
15-KAS-007	18.17	19.17	1.1193236		<2	<5	<5	0.6	7.31	<3	320	1	<2	3.55	<0.3	28	84	27	4.52	13	<1	0.99	1.73	36	1000	<1	2.86	82	0.077	4	<5	0.03	15	334	14	0.32	<5	<10	95	<5	16	58	105
15-KAS-007	19.17	20.29	1.121193237		<2	<5	<5	0.3	7.43	6	256	<1	2	5.17	<0.3	39	104	69	6.86	15	<1	0.93	2.78	35	1700	<1	2.69	120	0.113	<3	<5	0.04	23	449	15	0.29	<5	<10	116	<5	19	76	64
15-KAS-007	20.29	21.29	1.1193238		<2	<5	<5	0.3	7.8	<3	433	<1	2	6.01	<0.3	45	103	45	6.64	18	<1	1.01	2.52	34	1820	<1	2.53	186	0.115	3	<5	0.05	23	428	<2	0.19	<5	<10	81	<5	19	70	59
15-KAS-007	21.29	22.29	1.1193239		<2	<5	<5	0.5	7.64	<3	331	<1	2	5.77	<0.3	48	114	6	7.09	17	<1	0.89	2.89	35	1970	<1	2.79	190	0.117	<3	<5	<0.01	25	449	15	0.34	9	<10	100	<5	20	76	77
15-KAS-007	22.29	23.34	1.051193241		<2	<5	<5	0.3	7.28	<3	207	<1	3	6.55	<0.3	43	115	63	7.72	18	<1	0.41	2.86	23	2100	<1	2.56	137	0.119	<3	<5	0.07	24	446	<2	0.55	<5	<10	169	<5	19	82	96
15-KAS-007	23.34	24.34	1.1193242		<2	<5	<5	0.4	7.72	<3	230	<1	2	5.91	<0.3	45	141	66	7.41	17	<1	0.43	2.54	19	1990	<1	2.88	153	0.131	<3	<5	0.08	26	483	14	0.53	<5	<10	160	<5	20	62	93
15-KAS-007	24.34	25.34	1.1193243		<2	<5	<5	0.6	8.25	<3	182	<1	2	6.14	<0.3	47	218	112	9.42	16	1	0.48	1.75	20	2620	1	2.65	194	0.161	<3	<5	0.8	11	403	5	0.6	<5	<10	195	<5	14	70	102
15-KAS-007	25.34	26.38	1.041193244		<2	<5	<5	0.8	6.77	<3	280	<1	3	5.41	<0.3	48	204	485	11.2	18	6	1	2.11	42	3310	3	2.55	157	0.161	<3	<5	1.43	22	337	5	0.56	<5	<10	176	6	25	86	126
15-KAS-007	26.38	28	1.621193245		<2	<5	<5	0.5	6.89	<3	471	<1	2	5.94	<0.3	27	183	3	5.5	19	<1	0.77	1.62	13	2340	<1	2.85	87	0.13	<3	<5	0.01	18	433	10	0.41	<5	<10	130	<5	13	78	112
15-KAS-007	28	29	1.1193246		<2	<5	<5	<0.3	7.07	<3	251	2	<2	12.5	1.4	30	134	15	5.39	15	<1	0.38	0.81	5	2870	<1	2.02	113	0.115	6	<5	0.07	21	330	18	0.4	<5	<10	133	<5	22	67	80
15-KAS-007	29	29.9	0.91193247		<2	<5	<5	0.7	7.51	17	401	1	<2	7.68	0.7	48	147	167	8.18	19	5	0.72	1.27	9	2700	<1	2.78	154	0.122	<3	<5	0.49	18	453	5	0.44	<5	<10	135	11	14	115	112
15-KAS-007	29.9	30.62	0.721193248		<2	<5	<5	0.6	7.27	<3	557	1	<2	6.07	0.5	26	151	74	5.58	16	<1	1.03	0.92	3	2080	<1	3.07	85	0.143	8	<5	0.15	19	535	11	0.39	<5	<10	127	<5	14	100	108
15-KAS-007	30.62	31.62	1.1193249		<2	<5	<5	0.5	7.22	<3	589	1	<2	6.62	<0.3	26	172	66	4.84	18	<1	1.05	0.87	3	1870	<1	3.08	90	0.131	<3	<5	0.13	17	580	8	0.39	<5	<10	119	<5	12	86	98
15-KAS-007	31.62	32.52	0.91193250		<2	<5	<5	0.5	7.36	<3	601	1	<2	5.95	0.5	36	139	66	4.84	21	<1	1.55	1.19	11	1750	<1	3.1	117	0.163	6	<5	0.11	19	462	13	0.42	<5	<10	134	<5	15	87	104
15-KAS-007	32.52	33	0.481193251		<2	<5	<5	<0.3	6.48	<3	19	4	<2	0.8	<0.3	<1	11	12	0.45	18	<1	3.11	0.04	4	319	<1	3.28	<1	0.002	28	<5	0.05	<4	28	<2	0.03	<5	<10	3	<5	3	11	57
15-KAS-007	33	34.4	1.41193252		<2	<5	<5	0.6	7.78	<3	672	1	<2	4.67	<0.3	28	104	130	4.86	20	<1	1.7	1.29	24	1470	<1	3.16	79	0.147	6	<5	0.31	15	481	9	0.41	<5	<10	113	<5	14	70	117

Kasabonika Minerals Corp.

Hole Number: 15-KAS-008

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<b>Azimuth:</b>	<u>Drilling</u> 0	<b>Length:</b>	<u>Casing</u> 21.78 meters	<b>Township:</b>	<u>Location</u> BMA 535882	<b>Contractor:</b>	<u>Other</u> Berube Repairs
<b>Dip:</b>	90	<b>Pulled:</b>	No	<b>Claim No:</b>	4265447	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	54.81 meters	<b>Capped:</b>	No	<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	24-Jun-15	<b>Cemented:</b>	No	<b>East:</b>	411630	<b>Survey Date:</b>	
<b>Completed:</b>	25-Jun-15			<b>North:</b>	5940290	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No			<b>Elevation:</b>	182	<b>Date Logged:</b>	26-Jun-15
<b>Wedged From:</b>		<b>Size:</b>	<u>Core</u> BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
						<b>Sampler:</b>	L. Beardy
<b>Target:</b>	TQ Kimberlite Target #7						
<b>Comments:</b>	No Deviation Test						

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Depth (m)	<u>Deviation Test (corrected)</u>				
	Azimuth	Dip	Type	Mag	Temp

Hole ID	From	To	Litho	Comments
15-KAS-008	0	21.78	CAS	casing; v.lg bldr in ob
15-KAS-008	21.78	29.43	GAB	m-cg gabbro; trc diss py

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-008	24	25	1	1193253	< 2	< 5	< 5	0.7	4.43	< 3	989	1	< 2	1.66	< 0.3	6	29	2	1.6	15	< 1	1.49	0.44	20	336	< 1	2.51	5	0.037	11	< 5	< 0.01	< 4	301	5	0.2	< 5	< 10	30	< 5	7	45	140
15-KAS-008	25.95	26.95	1	1193254	< 2	< 5	< 5	1.3	7.82	< 3	> 1000	1	< 2	3.39	< 0.3	13	26	29	3.63	23	< 1	1.52	0.99	30	513	< 1	3.04	12	0.099	6	< 5	0.06	8	515	6	0.43	< 5	< 10	62	< 5	16	79	332



Kasabonika Minerals Corp.

Hole Number: 15-KAS-009

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<b>Azimuth:</b>	<u>Drilling</u> 138	<b>Length:</b>	<u>Casing</u> 28.33 meters	<b>Township:</b>	<u>Location</u> BMA 535882	<b>Contractor:</b>	<u>Other</u> Berube Repairs
<b>Dip:</b>	55	<b>Pulled:</b>	No	<b>Claim No:</b>	4262682	<b>Spotted By:</b>	T. Hannon
<b>Length:</b>	123.92 meters	<b>Capped:</b>	No	<b>NTS:</b>	53H9	<b>Surveyed By:</b>	
<b>Started:</b>	28-Jun-15	<b>Cemented:</b>	No	<b>East:</b>	409038	<b>Survey Date:</b>	
<b>Completed:</b>	30-Jun-15			<b>North:</b>	5941892	<b>Logged By:</b>	T. Hannon
<b>Wedged:</b>	No		<u>Core</u>	<b>Elevation:</b>	186	<b>Date Logged:</b>	1-Jul-15
<b>Wedged From:</b>		<b>Size:</b>	BTW	<b>UTM Zone:</b>	16 (NAD 83)	<b>Left in Hole:</b>	Casing
<b>Deviation Corr:</b>	5.92 W	<b>Storage:</b>	Kasabonika	<b>Lab:</b>	ActLabs (Thunder Bay)	<b>Sampling:</b>	Hand Splitter
						<b>Sampler:</b>	L. Beardy
<b>Target:</b>	William Bay West						
<b>Comments:</b>	No Deviation Test						

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Depth (m)	<u>Deviation Test (corrected)</u>				
	Azimuth	Dip	Type	Mag	Temp

Hole ID	From	To	Litho	Comments
15-KAS-009	0	28.33	OB	
15-KAS-009	28.33	42.62	MTSD	medium grey indurated sand/siltstone; quartz stringers $\leq 3$ mm; locally highly fractured; locally weak chlorite
15-KAS-009	42.62	80.64	MTSD	as above; locally fracture filling blebby pyrite ( $\leq 2\%$ ); milky quartz veins $\leq 3$ cm
15-KAS-009	80.64	118.96	MTSD	as above; stringers more abundant
15-KAS-009	118.96	123.92	MTSD	as above; locally moderately laminated

Hole ID	From	To	Interval	Sample number	Au (ppb)	Pd (ppb)	Pt (ppb)	Ag (ppm)	Al (%)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Hg (ppm)	K (%)	Mg (%)	Li (ppm)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	Sb (ppm)	S (%)	Sc (ppm)	Sr (ppm)	Te (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
15-KAS-009	30.04	31.26	1.22	1193255	<2	<5	<5	0.6	6.42	<3	401	1	2	3.44	<0.3	12	9	16	6.17	16	<1	1.58	0.9	14	1910	<1	2.42	4	0.129	<3	<5	0.04	14	175	8	0.42	<5	<10	17	<5	29	71	159
15-KAS-009	36.96	38.31	1.35	1193256	<2	<5	<5	0.6	6.96	<3	392	1	<2	3.7	<0.3	16	4	8	6.3	17	<1	1.25	1.03	17	1330	<1	2.93	2	0.136	4	<5	0.02	14	224	13	0.31	<5	<10	13	<5	30	93	155
15-KAS-009	38.84	39.78	0.94	1193257	<2	<5	<5	0.6	6.83	8	432	1	<2	2.57	<0.3	16	5	9	6.14	17	<1	1.21	0.92	14	1050	<1	2.69	<1	0.135	<3	<5	0.05	15	180	<2	0.29	<5	<10	14	<5	29	87	145
15-KAS-009	39.78	40.85	1.07	1193258	<2	<5	<5	0.6	6.99	5	465	1	11	3.19	<0.3	17	6	10	6.57	18	<1	1.43	1.08	18	1100	<1	2.6	<1	0.134	<3	<5	0.05	15	242	12	0.27	<5	<10	13	<5	30	93	146
15-KAS-009	45.07	45.91	0.84	1193259	2	<5	<5	1.1	7.57	7	728	1	<2	4.1	<0.3	20	25	29	4.54	19	<1	1.73	1.54	20	776	<1	2.47	28	0.086	4	<5	0.04	11	359	3	0.2	<5	<10	52	<5	17	86	142
15-KAS-009	46.69	47.84	1.15	1193261	5	<5	<5	0.4	7.13	<3	432	1	<2	3.63	<0.3	16	7	11	6.17	19	<1	1.45	1.02	15	1180	<1	2.84	2	0.132	6	<5	0.04	15	213	6	0.18	<5	<10	7	<5	31	100	115
15-KAS-009	47.84	48.97	1.13	1193262	<2	<5	<5	0.6	7.3	<3	364	1	7	3.08	<0.3	19	8	8	6.79	18	1	1.28	1.17	15	1100	<1	3.03	4	0.127	10	<5	0.04	16	220	<2	0.17	<5	<10	9	<5	31	106	110
15-KAS-009	48.97	50.17	1.2	1193263	<2	<5	<5	0.8	4.29	4	371	1	4	2.46	<0.3	19	4	12	5.9	17	<1	0.88	1.03	13	1080	1	3.07	<1	0.129	7	<5	0.02	7	199	10	0.61	<5	<10	25	<5	18	97	172
15-KAS-009	50.67	51.62	0.95	1193264	<2	<5	<5	0.9	6.8	8	604	1	2	2.97	<0.3	19	8	17	6.41	18	<1	1.44	1.19	15	1160	<1	2.75	2	0.13	3	<5	0.18	15	306	6	0.47	<5	<10	21	6	30	99	175
15-KAS-009	54.32	55.5	1.18	1193265	<2	<5	<5	0.6	6.78	<3	332	1	<2	4.03	<0.3	15	5	14	6.4	16	<1	1.32	1.04	17	1160	<1	2.19	4	0.124	<3	<5	<0.01	15	175	12	0.32	<5	<10	14	<5	28	90	136
15-KAS-009	55.5	56.6	1.1	1193266	<2	<5	<5	0.6	7.06	5	382	1	<2	3.31	<0.3	18	7	17	6.53	17	<1	1.62	1.01	17	1010	<1	2.67	3	0.12	<3	<5	0.26	15	208	12	0.43	<5	<10	20	<5	30	88	157
15-KAS-009	56.86	57.95	1.09	1193267	<2	<5	<5	0.5	6.71	<3	428	1	8	3.7	<0.3	16	4	18	6.47	19	<1	1.66	1.05	17	1160	<1	2.41	2	0.122	7	<5	0.08	15	194	3	0.23	<5	<10	13	<5	29	99	130
15-KAS-009	58.1	59.3	1.2	1193268	3	<5	<5	0.7	7.25	<3	492	1	<2	3.78	<0.3	17	5	14	6.54	19	2	1.7	0.99	19	1130	<1	2.39	3	0.13	8	<5	0.17	16	205	7	0.25	<5	<10	16	<5	30	99	128
15-KAS-009	66.01	67.07	1.06	1193269	<2	<5	<5	0.4	7.16	<3	518	1	4	3.34	<0.3	16	5	14	6.58	19	<1	1.72	1.11	18	1000	<1	2.7	4	0.126	6	<5	0.05	16	211	3	0.16	<5	<10	8	<5	31	102	102
15-KAS-009	74.75	75.75	1	1193270	<2	<5	<5	0.4	6.71	<3	296	1	6	4.84	<0.3	15	7	17	6.2	19	<1	1.61	0.88	15	1400	<1	2.83	7	0.122	13	<5	0.14	14	226	12	0.22	<5	<10	11	<5	30	111	113
15-KAS-009	75.75	76.75	1	1193271	<2	<5	<5	0.4	7.49	<3	365	1	<2	3.53	<0.3	18	6	20	5.3	20	<1	2.05	0.77	14	1030	<1	2.69	16	0.131	7	<5	0.02	16	199	6	0.17	<5	<10	8	<5	32	106	123
15-KAS-009	78	79.05	1.05	1193272	<2	<5	<5	0.5	6.68	<3	345	1	<2	3.24	<0.3	16	8	13	5.06	17	<1	1.6	0.82	14	1120	<1	2.29	9	0.122	5	<5	0.05	15	191	5	0.23	<5	<10	13	<5	28	109	121
15-KAS-009	79.05	80	0.95	1193273	8	<5	<5	0.6	6.88	<3	430	1	<2	3.63	<0.3	15	7	12	5.98	19	<1	1.3	0.77	13	1350	<1	2.39	7	0.133	7	<5	0.04	15	243	13	0.32	<5	<10	16	<5	28	95	148
15-KAS-009	80.23	80.73	0.5	1193274	<2	<5	<5	0.5	6.72	4	486	1	5	3.34	<0.3	19	6	21	5.33	18	<1	1.3	0.75	14	1070	<1	2.37	16	0.125	10	<5	0.01	14	256	7	0.28	<5	<10	12	<5	27	93	136
15-KAS-009	88.1	89.65	1.55	1193275	<2	<5	<5	0.5	7.03	10	728	1	<2	4.72	<0.3	27	53	13	6.69	21	<1	1.42	2.08	20	1350	<1	2.42	52	0.116	4	<5	0.06	19	299	14	0.21	<5	<10	57	<5	25	117	105
15-KAS-009	89.65	90.39	0.74	1193276	<2	<5	<5	0.3	7	7	>1000	<1	<2	6.13	<0.3	27	65	1	6.21	20	<1	1.59	2.38	22	1460	<1	1.87	69	0.096	<3	<5	<0.01	19	296	12	0.13	<5	<10	50	<5	19	117	74
15-KAS-009	94.55	95.55	1	1193277	<2	<5	<5	0.4	7.37	<3	375	1	3	3.63	<0.3	23	7	14	6.53	19	<1	1.77	1.05	16	1870	<1	2.56	14	0.132	4	<5	0.04	15	224	19	0.15	<5	<10	8	<5	31	98	90
15-KAS-009	104.5	105.6	1.1	1193278	<2	<5	<5	0.4	7.33	5	964	1	9	3.13	<0.3	17	9	13	6.17	19	<1	1.66	0.87	14	1860	<1	2.88	7	0.133	7	<5	0.04	15	219	8	0.18	<5	<10	8	<5	32	94	127
15-KAS-009	111.3	112.03	0.73	1193279	<2	<5	<5	0.6	6.97	3	632	1	<2	3.44	<0.3	9	9	13	5.58	17	<1	1.51	0.78	14	1840	<1	2.8	6	0.126	6	<5	0.04	14	185	15	0.18	<5	<10	8	<5	29	83	128
15-KAS-009	112.85	113.85	1	1193281	<2	<5	<5	0.8	6.36	<3	227	1	<2	5.68	<0.3	14	22	14	7.32	16	<1	1.12	1.11	13	3150	<1	2.29	7	0.112	7	<5	0.15	14	183	<2	0.46	<5	<10	16	<5	32	104	181
15-KAS-009	118.45	119.29	0.84	1193282	<2	<5	<5	0.5	4.68	<3	494	<1	<2	4.52	0.3	25	117	28	4.98	17	<1	1.29	2.05	22	1320	<1	1.78	57	0.078	8	<5	0.02	9	198	<2	0.42	<5	<10	83	<5	14	92	131
15-KAS-009	119.39	119.9	0.51	1193283	<2	<5	<5	0.6	7.01	4	615	<1	<2	4.11	0.8	45	393	84	6.27	18	<1	1.1	2.92	28	1220	2	0.81	135	0.059	8	8	0.13	23	235	7	0.45	<5	<10	155	<5	12	120	103
15-KAS-009	121.4	122.27	0.87	1193284	<2	<5	<5	0.5	6.34	12	508	<1	<2	4.61	<0.3	39	356	49	5.72	14	<1	1.43	2.57	20	1270	<1	2.01	140	0.059	50	<5	0.71	18	241	16	0.46	<5	<10	148	<5	13	135	93
15-KAS-009	122.27	122.89	0.62	1193285	<2	<5	<5	0.9	6.46	8	381	<1	<2	5.46	<0.3	43	283	54	7.88	15	<1	1.53	3.38	21	1480	<1	1.32	154	0.053	170	<5	0.59	22	248	6	0.4	<5	<10	142	<5	14	278	

**APPENDIX III - GEOLOGICAL ABBREVIATIONS**

# ROCK

## A

ACT	actinolite
ACDK	acid dike
ACHF	acid hornfels
ACT	actinolite
AGLM	agglomerate
ALB	albite
ALSK	alaskite
AMPB	amphibole
AMPH	amphibolite
AMPT	amphibolite
AN	anorthosite
ANDS	andesite
ANGR	antigorite
ANPL	anthophyllite
APL	aplite
APTT	apatite
ARG	argillite
ARK	arkose
ASB	asbestos
ASPY	arsenopyrite
ASYN	augite syenite

## B

BCDK	basic dike
BCHF	basic hornfels
BIOT	biotite
BLDR	boulder
BSLT	basalt
BX	breccia
BXSU	breccia sulphide

## C

CALC	calcite
CARB	carbonate
CBRK	carbonate rock
CHL	chlorite
CHNK	charnockite
CHRT	chert
CLAY	clay

CONG	conglomerate
CP	chalcopyrite
CPLX	complex
CRSP	carb-serp
CPX	clinopyroxene
CRDT	cordierite
CT	contact
CTSU	contact sulphide
CMNG	cumingtonite
CUB	cubanite

## D

DCT	dacite
DIA	diabase
DIKE	dike
DIO	diorite
DIOP	diopside
DLMT	dolomite
DNT	dunite
DSPD	diss.sulp.prdt
DYKE	dyke

## E

EPDT	epidote
FDPR	feldspar porphyry

## F

FELS	felsite
FLT	fault
FRCT	fracture
FRST	forsterite
FSP	feldspar

## G

GAB	gabbro
GAL	galena
GAR	garnet
GDRT	gedrite
GERS	gersdorffite
GN	gneiss
GNAM	amphibole gneiss
GNBI	biotite gneiss

GNGA	garnet gneiss
GNGR	granite gneiss
GNHB	hornblende gneiss
GNQT	gneiss quartz
GOUG	gouge
GR	granite
GRDR	granodiorite
GRNL	granulite
GRNT	grunerite
GRPR	granophyre
GRPT	graphite
GS	greenstone
GYWK	greywacke

## H

HARZ	harzburgite
HBL	hornblende
HBLT	hornblendite
HEM	hematite
HRFL	hornfels
HSTG	hastingsite

## I

IF	iron formation
INTR	intrusive
ISPD	interst.sulp.prdt

## K

KFSP	k-feldspar
------	------------

## L

LAMP	lamprophyre
LPTF	lapilli tuff
LAVA	lava
LC	lost core
LS	limestone

## M

M	mineralized
MAMP	m. amphibolite

MARG m. argillite  
 MARK m. arkose  
 MASU massive sulphide  
 MBIO m. biotite  
 MBX m. breccia  
 MCAR m. carbonate  
 MC marcasite  
 MCLN microcline  
 MCSP m. carb.serp.  
 MCT m. contact  
 MDSN mudstone  
 MGAB m. gabbro  
 MGAR m. garnet  
 MGMT migmatite  
 MGN m. gneiss  
 MGNA m. gneiss amph  
 MGNB m. gneiss biotite  
 MGRB m. granite biotite  
 MGRP m. graphite  
 MGWK m. greywacke  
 MICA mica  
 MIF m. iron formation  
 MLT millerite  
 MMSD m. metasediment  
 MMUD m. mud  
 MMYL m. mylonite  
 MN manganese  
 MONZ monzonite  
 MPEG m. pegmatite  
 MPHL m. phyllite  
 MPRD m. peridotite  
 MPXT m. pyroxenite  
 MQTE m. quartzite  
 MQTZ m. quartz  
 MRBL marble  
 MRKT myrrmekite  
 MS m. strongly  
 MSCH m. schist  
 MSHR m. shear  
 MSKN m. skarn  
 MSRP m. serpentinite  
 MT magnetite  
 MTAD metaandesite  
 MTDB metadiabase  
 MTDR metadiorite  
 MTGB metagabbro  
 MTPC metapicrite  
 MTPD metaperidotite

MTSD metasediment  
 MTVC metavolcanic  
 MUB m. ultrabasic  
 MUD mud  
 MUM m. ultramafic  
 MUSC muscovite  
 MVOL m. volcanic  
 MYL mylonite

## N

NC niccolite  
 NR norite  
 NSYN nepheline syenite

## O

OB overburden  
 OD olivine diabase  
 OCLS orthoclase  
 OLIV olivine  
 OLVN olivine  
 OPX orthopyroxene  
 OPXT orthopyroxenite  
 ORGN orthogneiss

## P

PCLT picrolite  
 PCRT picrite  
 PEG pegmatite  
 PELI pelite  
 PHLT phyllite  
 PHYL phyllonite  
 PLAG plagioclase  
 PLLV pillow lava  
 PN pentlandite  
 PNNT penninite  
 PO pyrrotite  
 PRDT peridotite  
 PRGN paragneiss  
 PRPY porphyry  
 PX pyroxene  
 PXT pyroxenite  
 PY pyrite

## Q

QD quartz diorite  
 QTE quartzite  
 QTZ quartz  
 QZBX quartz breccia

## R

RDCT rhyodacite  
 RHY rhyolite  
 RK rock

## S

SAND sand  
 SCH schist  
 SCHB schist biotite  
 SCPL scapolite  
 SEDS sediments  
 SHL shale  
 SHR shear  
 SILT silt  
 SKN skarn  
 SLMN sillimanite  
 SLT slate  
 SLTS siltstone  
 SPH sphalerite  
 SPHN sphene  
 SPNL spinel  
 SRCT sericite  
 SRPN serpentinite  
 SRPT serpentinite  
 SRTR structure  
 SS sandstone  
 STRT structure  
 STTT steatite  
 SULP sulphide  
 SUMX sulphide matrix  
 SYNT syenite

## T

TALC talc  
 TMLN tourmaline  
 TONA tonalite

TRAP trap  
TRBD turbidite  
TRCL troctolite  
TRCT trachyte  
TREM tremolite  
TRNS transition  
TUFF tuff  
TUFT tuffite

## U

UB ultrabasic  
UM ultramafic  
UMAM um. amphibolite

## V

VN vein  
VOLC volcanic  
VUG vug  
VT violarite

## X

XLLS crystalline limestone

## Z

ZONE zone  
ZRCN zircon

## TEXT

## A

@ at  
ABNT abundant  
AC acidic  
ACD acid  
ACLR acicular  
ACTC actinolitic  
ADRL anhedral  
AGL angle

AGLR angular  
AGN augen  
ALBZ albitization  
ALR alternating  
ALTD altered  
ALTN alteration  
AMCL asymmetrical  
AMGD amygdule  
AMPC amphibolitic  
AMPR amorphous  
AMRN amaranth  
AMT amount  
AMYG amygdaloidal  
ANIC anorthositic  
ANTP anisotropic  
APLC aplitic  
APNC aphanitic  
APRC appearance  
APRX approximate  
ARGC argillaceous  
ARSD arsenide  
ASSR accessory  
ASWT associated with  
ATID attitude  
ATND attenuated  
ATXS anatexis  
AVRG average  
AXL axial  
AXS axis

## B

BC broken core  
BCMG becoming  
BDG bedding  
BLB bleb  
BLBS blebs  
BLBY blebby  
BLDR boulder  
BLDS boulders  
BLK black  
BLKY blocky  
BN bornite  
BND band  
BNDD banded  
BNDS bands  
BRG bearing  
BRK break

BRKN broken  
BRN barren  
BRTL brittle  
BRWN brown  
BSC basic  
BSL basal  
BXXM breccia matrix  
BXTD brecciated

## C

CA core angle  
CAS casing  
CBZD carbonatized  
CCRD concordant  
CCTN concentration  
CDCR conductor  
CDCV conductive  
CFMB conformable  
CG coarse grained  
CHLC chloritic  
CHLD chilled  
CHTY cherty  
CKTK chicken track  
CLC calcic  
CLCR calcareous  
CLSR cluster  
CLTC clastic  
CLTS clasts  
CLVG cleavage  
CMLT cumulate  
CMPD composed  
CMTD cemented  
CNDL conchoidal  
CNK crinkle  
CNKS crinkles  
CNTD contorted  
CNTN contain  
CNTNS contains  
COMN common  
CONS constituent  
CPSN composition  
CRBD carbonated  
CRLN crenulation  
CRN corona  
CRND crenulated  
CRTN concretion  
CS coarse

CSFB crossfiber  
CSR coarser  
CT contact  
CTRK country rock  
CVTS cavities

## D

DCRG decreasing  
DCRS decrease  
DEG degree  
DH down hole  
DIAC diabasic  
DISS disseminated  
DK dark  
DP dip  
DPCM displacement  
DPNG dipping  
DPSL dispositional  
DPSN deposition  
DRCN direction  
DRLD drilled  
DS dense  
DSCL distinctly  
DSLTD dissolution  
DSNC distinct  
DVLP develop  
DVPD developed  
DXRL dextral

## E

EHDL euhedral  
ELGD elongated  
EPDZ epidotized  
EQGR equigranular  
ERCD enriched  
EST estimate  
ESTD estimated  
ESTN estimation  
EXML extremely  
EXPL explanation  
EXSV extensive  
EXTR extrusive

## F

FBRC fabric  
FBRF fibrous  
FCS facies  
FG fine grained  
FGMS fragments  
FLCK flecks  
FLD fold  
FLDD folded  
FLDG folding  
FLLG filling  
FLNG following  
FLSC felsic  
FLT fault  
FLTD faulted  
FN fine  
FNT faint  
FOTD foliated  
FOTN foliation  
FRBL friable  
FRCD fractured  
FRCS fractures  
FRCT fracture  
FRGM fragment  
FRML fragmental  
FRQN frequent  
FSPC feldspathic  
FT foot  
FOH foot of hole

## G

G grain  
GBIC gabbroic  
GDMS groundmass  
GLSY glassy  
GNC gneissic  
GPHC graphic  
GRC granitic  
GRDG grading  
GRDTL gradational  
GRFR garnetiferous  
GRLR granular  
GRN green  
GRPC graphitic  
GRVL gravel  
GRZD granitized  
GRZN granitization  
GY grey

## H

HBT habit  
HF hydrofluoric acid  
HLOS halos  
HLY highly  
HMGS homogeneous  
HNG hinge  
HPMC hypidiomorphic  
HRTL hortonolite  
HSRK host rock  
HTGS heterogeneous  
HW hanging wall

## I

IBDD interbedded  
ICRD increased  
ICRG increasing  
IDSC indistinct  
IMP impure  
IMPR impurities  
IN inch  
INCD inclined  
INCL inclusion  
INCS inclusions  
INCW in contact with  
INST interstitial  
INSU interstitial sulp  
INTR intrusive  
INTS intense  
IQGR inequigranular  
IRBD interbanded  
IREG irregular  
IRGH intergrowth  
IRGL intergranular  
IRGR intergrown  
IRMD intermediate  
IRTD intercalated  
ISCL isoclinal  
ISTP isotropic  
ITRD intruded

## J

JT joint  
JTD jointed



JTG jointing

## L

LCHD leached  
LCL local  
LCLR lenticular  
LCLY locally  
LCRT leucocratic  
LCT lower contact  
LCXN leucoxene  
LFT left  
LIM limonite  
LMB limb  
LMLR lamellar  
LMND laminated  
LMNN lamination  
LNMT lineament  
LNS lens  
LNT lunate  
LNTD lineated  
LNTN lineation  
LOWR lower  
LRCT lower contact  
LRNG layering  
LSTR luster  
LT light  
LTR lighter  
LYR layer  
LYRD layered

## M

M mineralized  
MASS massive  
MED medium  
MFC mafic  
MG medium grained  
MGMC migmatitic  
MGNL marginal  
MICS micaceous  
MIN mineral  
MLNC melanocratic  
MNCL monoclinic  
MNOR minor  
MOD moderate  
MODY moderately

MRKC myrrmekitic  
MS m. strongly  
MSKG muskeg  
MSMC metasomatic  
MSMD metasomatised  
MSMM metasomatism  
MTC magnetic  
MTCR metacryst  
MTLD mottled  
MTMC metamorphic  
MTMD metamorphosed  
MTRL material  
MTX matrix  
MVVW m. very very weakly  
MVW m. very weakly  
MW m. weakly  
MYLC mylonitic  
MYLD mylonitized

## N

NACN sodium cobaltnitrate  
NDLS nodules  
NMBC nematoblastic  
NMBS numbers  
NMRS numerous  
NRCV nonradioactive  
NRW narrow

## O

OB overburden  
OBCL orbicular  
OBDY orebody  
OC outcrop  
OCC occasional  
OCSR occurs  
OD olivine diabase  
OFST off set  
OPQS opaques  
OPTC ophitic  
ORNG orange  
ORTD oriented  
ORTN orientation  
OXDD oxidized  
OXDN oxidization

## P

PBL pebble  
PCLC pyroclastic  
PDMP pseudomorph  
PDMPS pseudomorphs  
PEGC pegmatitic  
PERI peridotitic  
PGMC pygmatic  
PGMY pygmatically  
PHCR phenocryst  
PHLG phlogopite  
PK pink  
PKBC poikiloblastic  
PKLC poikilitic  
PLCM pleochroism  
PLCR pleochroic  
PLGG plunging  
PLL parallel  
PLMC polymictic  
PLN plan  
PLNG plunge  
PNMC panidiomorphic  
POR porous  
PPDC perpendicular  
PR poor  
PRBC porphyroblastic  
PRBT porphyroblast  
PRCC porphyroclastic  
PRCL percrystalline  
PRCT porphyroclast  
PRDL predominantly  
PRDM predominant  
PRGS progressive  
PRLY poorly  
PRM primary  
PRMF permafrost  
PRPC porphyritic  
PRSN present  
PRT part  
PRTG parting  
PSBL possible  
PTCH patch  
PTCHS patches  
PTLY partly  
PYC pyritic

# Q

QCTX quench texture  
QVS quartz veins

# R

R rare  
RCZD recrystallized  
RDCS rudaceous  
RDCV radioactive  
RDMC radiometric  
RGD ragged  
RLCT relict  
RLVL relatively  
RMNS remnants  
RMNT remnant  
RND round  
RNDD rounded  
RNDM random  
RST rosette  
RSTY rusty  
RT right  
RX rocks

# S

SATD saturated  
SBRL subhedral  
SCHD schisted  
SCHG schisting  
SCHS schistose  
SCHY schistosity  
SCKD slickensided  
SCKS slickensides  
SCTD scattered  
SCTN section  
SDMR sedimentary  
SED sediment  
SEDS sediments  
SGGD segregated  
SGGN segregation  
SGMD segmented  
SGMS segments  
SGMT segment  
SHR shear  
SHRD sheared

SHRG shearing  
SKLL skeletal  
SL slight  
SLC silica  
SLCD silicified  
SLCS siliceous  
SLCT silicate  
SLDG sludge  
SLIC salic  
SLLY slightly  
SLPS slips  
SLT slate  
SLTN solution  
SMCL symmetrical  
SML small  
SMLR similar  
SMPG slumping  
SPCL specially  
SPFX spinifex  
SPK speck  
SPT spot  
SRCC sericitic  
SRCN sericitization  
SRDD surrounded  
SRDG surrounding  
SRDS shards  
SRND surround  
SRP sharp  
SRPD serpentized  
SRTR structure  
SRZD saussuritized  
SSRL sinistral  
STGL strongly  
STK streak  
STND stained  
STNG staining  
STR stringer  
STRD strained  
STRG strong  
STRN strain  
STRT structure  
STT steating  
STZD steatized  
SURF surface  
SVRL several

# T

T thin  
TFCS tuffaceous  
THC thick  
TR trace  
TRGT throughout  
TRMC tremolitic  
TRNL transitional  
TRNS transition  
TRQS tourquoise  
TWNG twinning  
TXTR texture

# U

U micron  
UCT upper contact  
UDLG undulating  
UDRL euhedral  
UH uphole  
UPCT upper contact  
UPRD upwards

# V

V very  
VCG very coarse grained  
VFG very fine grained  
VNLS veinlets  
VNNG veining  
VNS veins  
VRCL vertical  
VSBL visible  
VSC vesicular  
VTRS vitreous  
VUG vug  
VUGY vuggy

# W

W with  
WDTH width  
WHT white  
WK weak  
WKLY weakly  
WTR water

# X

---

XBDD	cross bedded
XBDG	cross bedding
XBDS	cross beds
XCTG	cross cutting
XTL	crystal
XTLN	crystalline
XTLZ	crystallized

# Y

---

YLW	yellow
-----	--------

# Z

---

ZNNG	zoning
------	--------

**APPENDIX IV - ASSAY CERTIFICATES**



**Date Submitted:** 17-Mar-15  
**Invoice No.:** A15-01740  
**Invoice Date:** 19-Mar-15  
**Your Reference:**

Kasabonika Minerals Corporation  
Box 124  
Kasabonika ON P0V 1Y0  
Canada

ATTN: Tim Hannon

## CERTIFICATE OF ANALYSIS

3 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)  
Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT      **A15-01740**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**  
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6  
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613  
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Results

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193995	25	7.4	1.53	24	12	< 1	< 2	4.82	2.6	531	75	2620	23.9	8	4	0.02	5.31	2	1310	3	0.08	1490	0.040
1193996	9	0.5	4.44	< 3	124	< 1	3	9.27	1.1	77	5	170	16.0	15	1	0.41	3.40	8	2500	< 1	1.20	62	0.029
1193997	22	0.9	4.50	10	96	< 1	< 2	5.99	1.3	77	5	711	18.8	16	6	0.35	4.01	9	2730	< 1	0.59	69	0.032

## Results

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193995	133	20	10.3	9	43	< 2	0.37	< 5	< 10	189	< 5	17	157	46
1193996	15	< 5	1.56	20	210	11	0.45	< 5	< 10	251	7	19	95	76
1193997	31	< 5	1.69	22	56	3	0.76	< 5	< 10	297	< 5	21	116	76

QC

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		30.8	2.27	449	670	1	1400	0.90	4.6	< 1		1200	24.0	12	5	0.05	0.21	8	914	16	0.05	46	0.061
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20		1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650
GXR-4 Meas		3.3	6.77	100	688	2	4	1.06	0.6	16	29	6430	3.02	20	< 1	4.00	1.69	10	155	312	0.55	44	0.128
GXR-4 Cert		4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120
SDC-1 Meas			8.16	< 3	630	3		1.08		18	31	29	4.72	23	< 1	2.52	0.99	35	901		1.51	40	0.052
SDC-1 Cert			8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690
GXR-6 Meas		0.4	12.7	270	> 1000	1	< 2	0.17	0.4	14	59	71	5.67	28	4	1.90	0.59	34	1100	2	0.10	29	0.036
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350
OREAS 14P Meas										703		9420	32.1										> 10000
OREAS 14P Cert										750		9970	37.2										21000
Oreas 72a (4 Acid Digest) Meas				5						167	189	337	9.39										6970
Oreas 72a (4 Acid Digest) Cert				14.7						157	228	316	9.63										6930.000
SAR-M (U.S.G.S.) Meas		4.6	5.70	38	746	3	< 2	0.58	5.4	10	79	312	2.92	16		2.68	0.44	27	5110	10	1.17	41	0.060
SAR-M (U.S.G.S.) Cert		3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7		2.99	17		2.94	0.50	27.4	5220	13.1	1.140	41.5	0.07
DNC-1a Meas				96						57	178	102						3					250
DNC-1a Cert				118						57.0	270	100.00						5.20					247
OREAS 13b (4-Acid) Meas		0.9		50						78	9370	2420								6			2240
OREAS 13b (4-Acid) Cert		0.86		57						75		2327.0000								9.0			2247.0000
OxD108 Meas	399																						
OxD108 Cert	414.000																						
SBC-1 Meas				21	785	3	< 2		0.9	22	83	32		28				174		2		93	
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8	
SE68 Meas	569																						
SE68 Cert	599																						
1193996 Orig	9	0.5	4.44	< 3	124	< 1	3	9.27	1.1	77	5	170	16.0	15	1	0.41	3.40	8	2500	< 1	1.20	62	0.029
1193996 Split	7	0.6	4.46	< 3	122	< 1	4	9.29	1.2	75	9	170	15.9	14	2	0.41	3.37	9	2490	< 1	1.19	56	0.027
1193997 Orig	34																						
1193997 Dup	10																						
Method Blank	< 5																						
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001

QC

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	763	53	0.24	< 4	295	6	0.03	< 5	40	89	159	30	779	30
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	49	< 5	1.79	8	218	15	0.29	< 5	< 10	87	36	13	71	56
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	22	< 5		16	172		0.22	< 5	< 10	52	< 5		98	38
SDC-1 Cert	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	92	< 5	0.02	29	38	< 2		< 5	< 10	114	< 5	12	130	74
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110



Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 14P Meas														
OREAS 14P Cert														
Oreas 72a (4 Acid Digest) Meas			1.68											
Oreas 72a (4 Acid Digest) Cert			1.74											
SAR-M (U.S.G.S.) Meas	958	< 5		9	142	4	0.36	< 5	< 10	63	25	31	904	
SAR-M (U.S.G.S.) Cert	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
DNC-1a Meas		< 5		31	129		0.28			139		14	58	36
DNC-1a Cert		0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
OREAS 13b (4-Acid) Meas			1.15										141	
OREAS 13b (4-Acid) Cert			1.2										133	
OxD108 Meas														
OxD108 Cert														
SBC-1 Meas	26	< 5		22	180		0.53	< 5	< 10	217	< 5	30	184	124
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
SE68 Meas														
SE68 Cert														
1193996 Orig	15	< 5	1.56	20	210	11	0.45	< 5	< 10	251	7	19	95	76
1193996 Split	17	< 5	1.54	20	210	< 2	0.39	< 5	< 10	232	< 5	19	95	75
1193997 Orig														
1193997 Dup														
Method Blank														
Method Blank	< 3	< 5	< 0.01	< 4	< 1	3	< 0.01	< 5	< 10	< 2	< 5	< 1	4	< 5



**Date Submitted:** 25-Mar-15  
**Invoice No.:** A15-01989 (i)  
**Invoice Date:** 14-Apr-15  
**Your Reference:**

Kasabonika Minerals Corporation  
Box 124  
Kasabonika ON P0V 1Y0  
Canada

ATTN: Tim Hannon

## CERTIFICATE OF ANALYSIS

58 Core samples were submitted for analysis.

The following analytical package was requested:

Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)  
Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A15-01989 (i)**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.  
Quality Control



Results

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193001	6	<5	<5	1.4	2.90	<3	144	1	<2	4.56	1.5	185	653	1490	22.5	12	<1	0.56	5.28	6	1910	<1	0.21
1193002	9	<5	<5	1.1	2.51	5	137	<1	7	1.35	3.5	198	205	3260	35.7	18	<1	0.57	3.18	6	2070	<1	0.15
1193003	5	<5	<5	0.5	2.53	<3	210	<1	<2	3.57	1.9	164	38	1330	25.5	17	<1	0.93	4.75	7	2230	<1	0.10
1193004	7	<5	<5	0.4	3.15	<3	361	<1	<2	5.53	0.9	113	11	1110	19.5	15	<1	1.47	4.30	13	1960	<1	0.22
1193005	6	<5	<5	<0.3	3.62	<3	378	1	<2	5.79	<0.3	104	7	934	16.9	16	<1	1.59	3.98	13	1800	<1	0.92
1193006	<2	<5	<5	<0.3	4.56	<3	298	1	<2	5.85	<0.3	64	5	289	13.9	16	<1	1.08	3.05	12	1650	<1	1.87
1193007	5	<5	<5	<0.3	6.32	<3	136	2	<2	4.43	<0.3	49	4	165	10.9	20	<1	0.31	2.19	5	1420	<1	3.46
1193008	5	<5	<5	0.3	6.33	3	186	2	<2	4.36	0.5	52	9	221	11.0	20	<1	0.51	2.18	7	1410	<1	3.63
1193009	4	<5	<5	0.4	5.69	<3	185	1	5	4.09	0.4	51	3	196	10.8	20	<1	0.46	1.93	7	1500	<1	3.75
1193010	<2	<5	<5	0.5	4.46	6	213	2	5	3.60	<0.3	56	3	147	10.7	19	<1	0.53	1.62	7	1480	<1	3.69
1193011	3	<5	<5	<0.3	6.29	<3	186	2	2	4.49	<0.3	48	76	137	11.1	24	<1	0.47	2.02	7	1530	<1	3.56
1193012	2	<5	<5	<0.3	6.44	<3	281	1	<2	5.52	<0.3	64	4	129	12.2	20	<1	0.83	2.66	12	1740	<1	2.63
1193013	3	<5	<5	<0.3	6.64	<3	196	1	<2	4.78	<0.3	59	6	165	12.2	18	<1	0.53	2.10	7	1650	<1	3.24
1193014	3	<5	<5	0.5	5.91	<3	159	<1	3	5.53	0.7	74	11	185	15.7	22	<1	0.49	3.14	9	2110	<1	2.08
1193015	7	<5	<5	<0.3	5.69	4	117	<1	<2	5.68	0.9	73	6	263	14.9	18	<1	0.38	2.98	8	1890	<1	1.98
1193016	6	<5	<5	<0.3	6.17	<3	149	1	3	6.33	<0.3	68	6	262	11.7	21	<1	0.47	2.86	8	1610	<1	2.47
1193017	10	<5	<5	1.2	6.62	8	105	1	<2	5.72	<0.3	68	12	389	11.6	17	<1	0.33	2.74	7	1660	<1	2.57
1193018	5	<5	<5	<0.3	6.41	<3	247	2	3	4.94	<0.3	49	6	207	10.8	19	<1	0.70	2.15	8	1500	<1	3.10
1193019	3	<5	<5	<0.3	6.30	4	242	1	4	4.97	0.7	54	3	121	11.1	15	<1	0.66	2.37	10	1600	<1	2.81
1193020	791	<5	<5	1.2	5.96	94	125	4	<2	2.51	3.2	25	83	89	5.31	30	<1	2.16	1.95	2	512	1	2.90
1193021	5	<5	<5	<0.3	5.71	<3	152	<1	<2	6.67	0.5	61	6	159	11.3	19	<1	0.52	3.02	8	1490	<1	2.28
1193022	3	<5	<5	<0.3	4.65	26	412	<1	<2	7.27	<0.3	81	8	528	13.0	15	4	1.65	3.35	18	1590	<1	1.00
1193023	6	<5	<5	<0.3	5.45	<3	267	<1	8	6.50	0.3	68	5	165	11.9	19	<1	1.01	3.01	16	1570	<1	1.56
1193024	8	<5	<5	0.7	6.60	11	124	1	3	6.07	<0.3	64	4	286	12.4	17	<1	0.37	2.69	7	1480	<1	2.55
1193025	8	<5	<5	0.3	6.41	3	114	1	3	5.63	<0.3	61	7	263	12.2	14	<1	0.33	2.53	7	1570	<1	2.41
1193026	44	<5	<5	0.6	6.21	<3	162	<1	<2	6.39	0.5	93	11	1490	13.1	16	<1	0.50	3.03	7	1620	<1	2.03
1193027	9	<5	<5	0.4	6.11	<3	142	<1	<2	6.02	<0.3	110	24	374	13.6	16	<1	0.49	3.86	11	1610	<1	1.55
1193028	6	<5	<5	<0.3	6.65	6	481	<1	<2	5.14	0.6	66	25	340	10.8	17	<1	1.33	2.58	12	1490	<1	2.57
1193029	3	<5	<5	<0.3	6.29	<3	91	<1	3	6.11	0.4	41	119	69	7.38	15	<1	0.46	3.52	22	1310	<1	1.92
1193030	<2	<5	<5	<0.3	4.70	9	65	<1	<2	4.09	<0.3	51	1010	9	6.00	13	<1	0.38	7.70	29	1030	<1	1.27
1193031	<2	<5	<5	<0.3	4.60	<3	27	<1	<2	4.80	1.2	61	1240	9	6.47	12	<1	0.17	9.78	34	1210	<1	0.27
1193032	<2	<5	9	<0.3	4.94	<3	44	<1	<2	4.79	1.1	62	1120	8	7.07	11	<1	0.17	9.80	25	1230	<1	0.70
1193033	3	<5	<5	<0.3	6.71	4	110	<1	<2	3.22	<0.3	34	258	24	5.17	18	<1	0.18	4.75	15	876	<1	2.93
1193034	2	<5	<5	<0.3	7.32	<3	366	<1	<2	4.80	<0.3	37	134	83	5.62	14	<1	0.84	4.44	20	931	<1	2.47
1193035	<2	<5	6	0.4	4.46	45	51	<1	5	6.25	<0.3	55	651	40	5.63	9	<1	0.20	7.77	22	1210	<1	0.20
1193036	<2	<5	<5	<0.3	4.24	37	90	<1	<2	5.48	<0.3	64	573	41	6.04	8	<1	0.39	8.26	20	1150	<1	0.29
1193037	<2	<5	<5	<0.3	5.89	<3	146	<1	<2	4.53	0.3	42	265	26	5.64	13	<1	0.70	5.98	29	923	<1	1.07
1193038	4	<5	8	<0.3	4.47	<3	189	<1	5	3.84	<0.3	56	622	90	6.41	10	<1	1.07	8.87	25	979	<1	0.39
1193039	6	<5	<5	0.5	6.59	281	403	2	5	2.68	<0.3	12	7	41	7.20	23	<1	1.05	1.02	13	1060	<1	3.42
1193040	<2	<5	<5	<0.3	0.01	<3	<7	<1	<2	0.11	<0.3	<1	22	7	0.05	<1	<1	<0.01	<0.01	4	19	<1	<0.01
1193041	<2	<5	<5	0.6	6.57	7	490	2	<2	2.61	<0.3	15	5	38	7.63	22	<1	1.36	0.96	16	1220	<1	3.13
1193042	<2	<5	<5	0.4	6.47	9	496	3	<2	2.92	<0.3	10	4	14	7.23	21	<1	1.41	0.85	16	1060	<1	3.28
1193043	<2	<5	<5	0.7	6.91	<3	490	3	8	1.86	<0.3	9	7	25	6.24	23	<1	1.57	0.84	15	1270	<1	3.67
1193044	<2	<5	<5	0.8	6.66	4	443	3	<2	2.06	0.5	8	4	22	6.69	24	<1	1.45	0.92	14	1210	<1	3.44
1193045	4	<5	<5	0.7	7.02	<3	510	3	<2	1.89	1.1	8	4	69	6.44	26	<1	1.64	0.87	15	1200	<1	3.49
1193046	<2	<5	<5	0.6	6.91	7	495	3	<2	2.21	0.4	9	5	44	6.57	23	<1	1.82	0.90	15	975	<1	3.26
1193047	<2	<5	<5	0.7	6.89	6	489	3	<2	2.34	0.5	11	7	42	7.19	24	<1	1.94	0.99	18	1120	<1	3.11
1193048	<2	<5	<5	0.8	6.97	5	410	3	<2	2.43	<0.3	12	13	69	8.03	25	<1	2.10	1.06	19	1380	1	2.70
1193049	<2	<5	<5	0.8	5.02	5	498	3	<2	2.60	<0.3	15	4	59	8.31	21	<1	1.75	1.21	19	1550	2	2.29

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193050	<2	<5	<5	0.9	6.64	<3	571	3	<2	2.15	<0.3	12	7	38	6.87	25	<1	1.55	1.01	14	1360	<1	2.97
1193051	<2	<5	<5	0.4	6.40	9	526	3	<2	2.24	<0.3	12	4	37	7.05	23	<1	1.53	0.95	15	1360	<1	3.05
1193052	<2	<5	<5	0.4	6.74	<3	523	3	<2	2.31	<0.3	14	3	49	7.67	24	<1	1.45	1.00	15	1350	<1	3.20
1193053	2	<5	<5	1.6	6.66	82	272	2	<2	1.81	1.4	25	21	196	5.89	21	<1	0.87	0.98	11	1060	1	3.73
1193054	10	<5	<5	1.4	6.63	714	326	2	<2	2.29	1.1	10	5	74	6.12	25	<1	1.07	0.79	10	1210	2	3.68
1193055	10	<5	<5	1.1	6.39	576	330	2	<2	2.34	1.7	8	6	145	6.20	22	<1	1.26	0.83	11	1210	1	3.41
1193056	19	<5	<5	1.4	6.56	<3	415	3	<2	2.12	3.7	12	7	538	6.75	23	<1	1.41	0.92	13	1260	<1	3.27
1193057	5	<5	<5	<0.3	6.72	<3	439	2	2	4.43	<0.3	40	6	60	12.0	21	<1	1.44	1.66	15	1870	<1	1.95
1193058	<2	<5	<5	<0.3	7.65	<3	594	2	<2	3.79	0.7	39	6	62	11.4	21	<1	1.70	1.49	18	1700	<1	2.55

Results

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193001	713	0.025	31	< 5	1.70	24	80	< 2	0.52	< 5	< 10	548	< 5	12	168	43
1193002	725	0.012	26	7	0.47	15	24	16	2.67	< 5	< 10	1700	6	6	97	55
1193003	501	0.011	23	12	0.20	20	86	5	0.86	< 5	< 10	810	< 5	9	104	66
1193004	264	0.018	13	< 5	0.22	30	165	17	0.62	< 5	< 10	607	< 5	13	98	71
1193005	206	0.030	8	< 5	0.28	34	198	< 2	0.31	< 5	< 10	270	< 5	15	91	20
1193006	94	0.050	8	< 5	0.05	27	284	< 2	0.27	< 5	< 10	143	< 5	18	81	26
1193007	30	0.068	6	< 5	0.08	19	380	13	0.36	< 5	< 10	94	< 5	20	64	60
1193008	28	0.068	10	< 5	0.08	17	352	12	0.45	< 5	< 10	111	< 5	20	67	87
1193009	39	0.080	6	< 5	0.07	14	332	12	0.76	< 5	< 10	148	< 5	15	66	91
1193010	35	0.086	8	< 5	0.04	9	297	12	1.30	< 5	< 10	235	< 5	11	59	155
1193011	32	0.066	11	< 5	0.12	17	311	7	0.25	< 5	< 10	87	< 5	21	65	49
1193012	55	0.025	8	< 5	0.04	31	314	4	0.22	< 5	< 10	113	< 5	14	78	18
1193013	49	0.052	8	< 5	0.11	25	363	8	0.28	< 5	< 10	104	< 5	18	73	37
1193014	55	0.039	< 3	< 5	0.44	27	236	31	0.99	< 5	< 10	345	< 5	19	98	87
1193015	57	0.027	8	< 5	0.11	31	274	< 2	0.29	< 5	< 10	145	< 5	17	96	29
1193016	47	0.026	9	< 5	0.03	29	382	10	0.19	< 5	< 10	88	< 5	14	96	18
1193017	91	0.049	8	< 5	0.18	25	380	< 2	0.18	< 5	< 10	121	< 5	15	93	19
1193018	30	0.069	6	< 5	0.06	17	389	< 2	0.15	< 5	< 10	48	< 5	21	81	23
1193019	27	0.050	8	< 5	0.11	19	409	15	0.13	5	< 10	45	< 5	16	75	12
1193020	87	0.092	91	< 5	2.30	5	273	9	0.62	< 5	< 10	79	< 5	6	157	79
1193021	28	0.021	8	< 5	0.02	24	408	< 2	0.31	< 5	< 10	102	< 5	12	82	49
1193022	75	0.023	8	< 5	0.06	32	216	7	0.21	< 5	< 10	90	< 5	14	92	16
1193023	53	0.031	6	< 5	0.02	30	283	10	0.14	7	< 10	83	< 5	13	86	11
1193024	48	0.037	11	< 5	0.04	27	378	4	0.32	< 5	< 10	115	< 5	15	87	50
1193025	49	0.031	11	< 5	0.08	27	342	2	0.48	< 5	< 10	135	< 5	15	87	58
1193026	194	0.031	8	< 5	0.42	29	290	4	0.46	< 5	< 10	164	< 5	14	112	38
1193027	195	0.036	9	< 5	0.21	19	222	< 2	0.64	< 5	< 10	325	< 5	15	102	80
1193028	72	0.044	14	< 5	0.63	27	362	5	0.41	< 5	< 10	137	< 5	14	83	41
1193029	135	0.112	4	< 5	< 0.01	22	228	< 2	0.17	< 5	< 10	80	< 5	18	84	54
1193030	474	0.057	< 3	< 5	< 0.01	19	97	< 2	0.33	< 5	< 10	123	< 5	10	77	75
1193031	623	0.068	< 3	< 5	< 0.01	21	37	10	0.36	< 5	< 10	127	< 5	12	76	63
1193032	526	0.021	< 3	< 5	< 0.01	29	66	< 2	0.27	< 5	< 10	137	< 5	11	97	54
1193033	134	0.040	3	< 5	< 0.01	22	300	6	0.25	< 5	< 10	97	< 5	10	66	78
1193034	124	0.028	5	< 5	0.01	37	356	7	0.30	< 5	< 10	145	< 5	13	68	69
1193035	475	0.041	6	< 5	0.01	22	202	11	0.23	< 5	< 10	111	< 5	7	77	59
1193036	500	0.025	5	< 5	0.02	27	206	15	0.20	< 5	< 10	116	< 5	6	88	42
1193037	204	0.030	< 3	< 5	< 0.01	25	148	< 2	0.23	< 5	< 10	109	< 5	7	79	70
1193038	333	0.020	< 3	< 5	0.15	35	90	8	0.26	< 5	< 10	132	< 5	6	78	50
1193039	7	0.109	9	< 5	0.21	13	162	13	0.28	< 5	< 10	7	< 5	32	99	179
1193040	8	< 0.001	< 3	< 5	0.06	< 4	3	2	0.03	< 5	< 10	< 2	< 5	< 1	< 1	16
1193041	3	0.122	8	< 5	0.20	13	213	8	0.43	< 5	< 10	6	< 5	37	91	234
1193042	3	0.088	9	< 5	0.03	12	181	9	0.23	< 5	< 10	3	< 5	40	112	149
1193043	4	0.069	7	< 5	0.04	11	206	3	0.23	< 5	< 10	2	< 5	46	107	240
1193044	4	0.067	7	< 5	0.05	10	171	7	0.34	< 5	< 10	3	< 5	44	112	306
1193045	9	0.072	5	< 5	0.05	11	183	4	0.27	< 5	< 10	3	< 5	46	171	262
1193046	3	0.086	7	< 5	0.06	12	185	8	0.23	< 5	< 10	3	< 5	40	92	216
1193047	2	0.100	7	< 5	0.05	13	186	2	0.26	< 5	< 10	3	< 5	42	111	223
1193048	4	0.109	10	< 5	0.14	13	178	3	0.45	< 5	< 10	5	< 5	42	115	285
1193049	9	0.149	10	< 5	0.17	12	153	5	0.69	< 5	< 10	9	< 5	35	131	284

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193050	6	0.099	8	< 5	0.12	12	216	5	0.52	< 5	< 10	6	< 5	42	107	332
1193051	5	0.104	6	< 5	0.08	12	223	13	0.28	< 5	< 10	4	< 5	40	99	183
1193052	6	0.113	7	< 5	0.14	14	204	< 2	0.23	< 5	< 10	4	< 5	39	102	138
1193053	18	0.068	385	8	0.61	10	170	3	0.46	< 5	< 10	8	8	37	491	389
1193054	4	0.080	10	< 5	0.72	11	148	5	0.50	< 5	< 10	5	< 5	38	141	376
1193055	4	0.070	7	< 5	0.97	10	133	7	0.46	< 5	< 10	4	< 5	36	225	338
1193056	4	0.072	15	< 5	1.22	11	151	8	0.49	< 5	< 10	4	8	39	510	348
1193057	13	0.211	14	< 5	0.13	23	286	< 2	0.47	< 5	< 10	22	< 5	31	124	88
1193058	13	0.142	13	< 5	0.08	28	285	7	0.48	< 5	< 10	21	< 5	29	130	100

QC

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas				31.3	2.25	427	648	1	1400	0.87	3.5	10	14	1170	23.6	15	3	0.05	0.21	8	861	16	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-1 Meas				27.5	2.16	438	656	1	1410	0.90	3.5	2		1200	23.8	7	< 1	0.05	0.21	7	889	16	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20		1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-4 Meas				3.6	6.63	95	562	2	< 2	1.07	0.9	15	41	6460	3.03	30	1	3.57	1.69	10	154	329	0.54
GXR-4 Cert				4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564
GXR-4 Meas				3.1	6.91	107	271	2	< 2	1.14	0.5	16	33	6740	3.21	25	< 1	3.64	1.78	11	161	332	0.56
GXR-4 Cert				4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564
SDC-1 Meas					7.77	< 3	630	3		1.08		19	45	30	4.66	26	< 1	2.18	0.99	33	837		1.46
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
SDC-1 Meas					7.91	6	632	3		1.10		19	37	31	4.80	25	< 1	2.36	1.00	33	844		1.51
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
GXR-6 Meas				0.5	12.1	263	> 1000	1	< 2	0.17	0.3	13	54	72	5.67	36	< 1	1.93	0.59	31	1060	2	0.10
GXR-6 Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104
OREAS 14P Meas												682		9470	32.3								
OREAS 14P Cert												750		9970	37.2								
OREAS 14P Meas												682		8980	27.6								
OREAS 14P Cert												750		9970	37.2								
Oreas 72a (4 Acid Digest) Meas						3						154	187	334	9.61								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
Oreas 72a (4 Acid Digest) Meas						< 3						150	204	312	9.09								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
SAR-M (U.S.G.S.) Meas				3.8	5.98	34	805	3	< 2	0.63	5.4	10	76	340	3.19	22		2.70	0.48	29	5260	13	1.22
SAR-M (U.S.G.S.) Cert				3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7	331.0000	2.99	17		2.94	0.50	27.4	5220	13.1	1.140
SAR-M (U.S.G.S.) Meas				3.1	5.82	29	780	3	< 2	0.62	5.0	11	73	343	3.12	20		2.68	0.46	27	4990	6	1.15
SAR-M (U.S.G.S.) Cert				3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7	331.0000	2.99	17		2.94	0.50	27.4	5220	13.1	1.140
DNC-1a Meas							99					56	198	97							4		
DNC-1a Cert							118					57.0	270	100.00							5.20		
DNC-1a Meas							94					54	112	96							3		
DNC-1a Cert							118					57.0	270	100.00							5.20		
OREAS 13b (4-Acid) Meas				1.0		44						73	9040	2320								7	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.0000	2327.0000								9.0	
OREAS 13b (4-Acid) Meas				0.9		46						74	8930	2500								5	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.0000	2327.0000								9.0	
PK2 Meas	4870	5950	4640																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	4730	5770	4670																				
PK2 Cert	4785.000	5918.000	4749.000																				

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SBC-1 Meas						31	770	3	< 2		0.7	23	94	32		31				163		2	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
SBC-1 Meas						21	759	3	< 2		0.5	23	78	32		30				161		1	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
CDN-PGMS-25 Meas	479	1860	403																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	509	1860	413																				
CDN-PGMS-25 Cert	483	1830	400																				
1193011 Orig	3	< 5	< 5																				
1193011 Dup	3	< 5	< 5																				
1193013 Orig				< 0.3	6.61	< 3	196	1	4	4.75	< 0.3	59	6	168	12.2	17	< 1	0.54	2.09	7	1640	< 1	3.23
1193013 Dup				< 0.3	6.66	< 3	197	1	< 2	4.80	0.6	59	7	161	12.2	19	< 1	0.53	2.10	7	1660	< 1	3.24
1193021 Orig	7	< 5	< 5																				
1193021 Dup	4	< 5	< 5																				
1193027 Orig				0.4	6.14	< 3	142	< 1	< 2	6.00	0.7	110	26	380	13.6	17	< 1	0.49	3.86	11	1590	< 1	1.55
1193027 Dup				0.4	6.07	6	142	< 1	< 2	6.04	< 0.3	110	23	369	13.6	15	< 1	0.48	3.86	11	1620	< 1	1.55
1193030 Orig	< 2	< 5	< 5	< 0.3	4.70	9	65	< 1	< 2	4.09	< 0.3	51	1010	9	6.00	13	< 1	0.38	7.70	29	1030	< 1	1.27
1193030 Split	< 2	< 5	< 5	< 0.3	4.95	6	66	< 1	< 2	4.11	< 0.3	49	1010	8	6.03	12	< 1	0.39	7.83	29	1020	< 1	1.28
1193032 Orig	< 2	< 5	10																				
1193032 Dup	< 2	< 5	9																				
1193045 Orig	3	< 5	< 5																				
1193045 Dup	4	< 5	< 5																				
1193050 Orig	< 2	< 5	< 5	0.9	6.64	< 3	571	3	< 2	2.15	< 0.3	12	7	38	6.87	25	< 1	1.55	1.01	14	1360	< 1	2.97
1193050 Split	< 2	< 5	< 5	1.0	6.71	< 3	574	3	< 2	2.17	< 0.3	12	6	39	6.84	23	< 1	1.57	1.01	14	1380	1	2.93
1193052 Orig				0.4	6.75	4	520	3	5	2.32	< 0.3	15	4	49	7.63	24	< 1	1.45	0.99	15	1340	< 1	3.20
1193052 Dup				0.3	6.74	< 3	526	3	< 2	2.30	< 0.3	13	2	49	7.70	24	< 1	1.44	1.00	15	1350	< 1	3.20
1193055 Orig	10	< 5	< 5																				
1193055 Dup	10	< 5	< 5																				
Method Blank				< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank				< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01

QC

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	46	0.057	712	73	0.24	< 4	282	10	0.03	< 5	30	85	160	28	723	30
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	45	0.059	722	53	0.25	< 4	289	6	0.03	6	40	87	164	28	730	29
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	45	0.130	40	12	1.79	8	218	16	0.29	< 5	< 10	87	34	13	70	51
GXR-4 Cert	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas	50	0.138	45	< 5	1.88	9	228	8	0.31	< 5	< 10	93	36	14	73	49



Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-4 Cert	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	37	0.053	19	< 5		16	173		0.16	< 5	< 10	42	< 5		102	35
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	37	0.055	19	7		17	175		0.17	< 5	< 10	41	< 5		97	33
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	27	0.036	91	< 5	0.02	28	37	< 2		< 5	< 10	140	< 5	11	124	75
GXR-6 Cert	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110
OREAS 14P Meas	> 10000															
OREAS 14P Cert	21000															
OREAS 14P Meas	> 10000															
OREAS 14P Cert	21000															
Oreas 72a (4 Acid Digest) Meas	6790				1.66											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
Oreas 72a (4 Acid Digest) Meas	6300				1.57											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
SAR-M (U.S.G.S.) Meas	48	0.068	1010	8		9	153	3	0.39	< 5	< 10	68	18	33	943	
SAR-M (U.S.G.S.) Cert	41.5	0.07	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
SAR-M (U.S.G.S.) Meas	47	0.061	949	< 5		9	151	5	0.25	< 5	< 10	52	12	32	909	
SAR-M (U.S.G.S.) Cert	41.5	0.07	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
DNC-1a Meas	263			< 5		32	133		0.29			144		15	56	37
DNC-1a Cert	247			0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
DNC-1a Meas	252			< 5		32	127		0.28			140		14	56	35
DNC-1a Cert	247			0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
OREAS 13b (4-Acid) Meas	2220				1.12										154	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
OREAS 13b (4-Acid) Meas	2220				1.14										104	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
PK2 Meas																
PK2 Cert																
PK2 Meas																
PK2 Cert																
SBC-1 Meas	93		23	10		22	178		0.53	< 5	< 10	209	< 5	31	186	124
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	88		30	5		21	177		0.53	< 5	< 10	213	5	29	175	117
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
CDN-PGMS-25 Meas																

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
CDN-PGMS-25 Cert																
1193011 Orig																
1193011 Dup																
1193013 Orig	48	0.053	5	< 5	0.10	25	359	12	0.19	< 5	< 10	94	< 5	18	73	23
1193013 Dup	50	0.051	11	< 5	0.11	25	368	3	0.37	< 5	< 10	114	< 5	18	74	51
1193021 Orig																
1193021 Dup																
1193027 Orig	197	0.038	5	< 5	0.21	19	223	< 2	0.73	< 5	< 10	332	< 5	15	101	82
1193027 Dup	194	0.033	14	< 5	0.21	19	222	7	0.55	< 5	< 10	317	< 5	15	103	79
1193030 Orig	474	0.057	< 3	< 5	< 0.01	19	97	< 2	0.33	< 5	< 10	123	< 5	10	77	75
1193030 Split	474	0.057	< 3	< 5	< 0.01	20	98	14	0.33	< 5	< 10	123	< 5	10	77	76
1193032 Orig																
1193032 Dup																
1193045 Orig																
1193045 Dup																
1193050 Orig	6	0.099	8	< 5	0.12	12	216	5	0.52	< 5	< 10	6	< 5	42	107	332
1193050 Split	4	0.101	5	< 5	0.12	12	220	< 2	0.56	< 5	< 10	6	< 5	42	108	344
1193052 Orig	5	0.114	4	< 5	0.14	14	206	< 2	0.25	< 5	< 10	4	< 5	39	102	148
1193052 Dup	6	0.113	9	< 5	0.14	14	202	7	0.22	< 5	< 10	4	< 5	39	102	128
1193055 Orig																
1193055 Dup																
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	1	< 5



**Date Submitted:** 30-Mar-15  
**Invoice No.:** A15-02096  
**Invoice Date:** 20-Apr-15  
**Your Reference:**

Kasabonika Minerals Corporation  
Box 124  
Kasabonika ON P0V 1Y0  
Canada

ATTN: Tim Hannon

## CERTIFICATE OF ANALYSIS

60 Core samples were submitted for analysis.

The following analytical package was requested:

Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)  
Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A15-02096**

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

Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.  
Quality Control



## Results

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193059	5	<5	<5	0.4	6.61	7	256	2	<2	4.02	1.3	60	53	72	13.7	25	2	1.14	1.60	14	1950	<1	1.98
1193060	768	<5	<5	1.9	8.33	95	142	4	<2	2.85	2.6	26	64	96	5.81	25	<1	2.99	2.22	2	551	1	3.18
1193061	<2	<5	<5	0.7	5.90	9	184	2	<2	3.75	1.7	45	41	110	17.3	24	2	0.99	2.36	13	2890	<1	1.42
1193062	<2	<5	<5	1.1	6.60	8	129	2	<2	2.60	0.9	17	18	80	8.03	22	<1	0.47	1.19	9	1420	2	3.18
1193063	3	<5	<5	1.0	6.89	17	459	3	<2	2.23	0.7	9	10	10	5.84	24	<1	2.02	0.87	26	779	<1	2.12
1193064	67	<5	<5	1.6	6.52	2740	422	2	<2	3.77	<0.3	8	14	32	4.39	22	6	1.95	0.63	14	1140	5	2.42
1193065	8	<5	<5	0.7	6.71	525	505	3	<2	1.61	1.9	8	14	44	5.44	23	<1	2.03	0.69	11	1390	2	1.50
1193066	3	<5	<5	1.3	6.39	174	380	3	<2	1.98	1.1	6	19	20	5.67	22	<1	1.17	0.64	10	1500	<1	2.75
1193067	<2	<5	<5	1.3	6.88	6	519	3	<2	1.61	0.9	10	18	29	5.30	25	<1	1.69	0.62	15	1270	4	2.12
1193068	<2	<5	<5	0.9	5.47	4	310	2	<2	4.04	1.9	22	17	56	8.65	19	<1	0.87	1.73	15	2450	1	2.01
1193069	16	<5	<5	0.5	6.47	26	170	<1	<2	4.95	1.9	45	95	160	7.79	16	<1	0.52	3.55	14	1000	<1	2.64
1193070	9	<5	<5	0.4	6.31	15	206	<1	<2	5.46	1.5	43	108	171	7.75	15	<1	0.62	3.39	15	972	<1	2.62
1193071	28	<5	<5	<0.3	6.52	24	233	<1	<2	4.63	0.6	45	102	142	7.83	18	<1	0.67	3.45	17	959	<1	2.47
1193072	<2	<5	<5	<0.3	4.91	57	8	<1	<2	6.38	0.4	45	561	3	6.43	16	<1	0.02	8.18	24	1450	<1	0.05
1193073	<2	<5	<5	0.6	5.08	383	7	<1	<2	7.65	2.5	62	652	6	5.90	13	<1	0.01	9.58	23	1300	<1	0.01
1193074	16	<5	<5	1.0	6.87	15	154	<1	<2	5.70	3.6	52	73	416	8.10	17	<1	0.49	3.52	15	1310	<1	3.11
1193075	3	7	6	0.4	6.80	183	38	<1	<2	5.10	0.8	56	291	60	7.83	17	1	0.17	5.77	23	1110	<1	1.86
1193076	<2	<5	<5	0.3	4.80	395	9	<1	<2	5.80	0.6	55	834	27	5.81	14	1	0.02	8.17	20	1200	<1	0.21
1193077	3	<5	5	0.3	6.49	85	75	<1	<2	4.01	1.2	48	232	87	7.81	13	1	0.19	4.98	18	1070	<1	1.98
1193078	13	<5	<5	0.5	6.06	30	275	<1	<2	4.63	1.1	43	94	98	8.20	16	<1	0.58	3.47	16	1100	<1	2.02
1193079	26	<5	<5	<0.3	4.24	71	61	<1	<2	4.75	1.7	58	1070	13	5.18	12	<1	0.16	9.38	25	1000	<1	0.04
1193080	<2	<5	<5	<0.3	0.02	<3	<7	<1	<2	0.10	<0.3	<1	17	2	0.05	<1	<1	<0.01	<0.01	4	17	<1	<0.01
1193081	<2	<5	<5	0.4	4.51	55	39	<1	<2	4.64	0.5	57	984	11	5.49	9	<1	0.11	10.2	26	1030	<1	0.01
1193082	6	<5	<5	<0.3	4.52	29	83	<1	<2	4.93	0.7	57	891	126	5.48	10	<1	0.22	10.4	27	829	<1	<0.01
1193083	3	<5	<5	0.4	4.64	42	8	<1	<2	4.11	1.5	61	1000	26	5.83	11	2	0.03	11.4	24	966	<1	0.10
1193084	2	<5	<5	0.4	4.67	40	<7	<1	<2	4.30	1.5	59	922	34	5.84	14	<1	0.02	11.3	23	966	<1	0.10
1193085	7	<5	<5	0.4	6.80	9	53	<1	<2	5.74	0.9	46	120	129	8.77	17	<1	0.05	3.60	11	1230	<1	2.07
1193086	2	<5	<5	0.4	6.21	12	105	<1	<2	6.06	0.8	43	64	107	8.99	17	2	0.22	3.16	13	1350	<1	1.67
1193087	<2	<5	<5	<0.3	6.71	10	74	<1	<2	7.39	0.8	44	96	78	8.42	16	2	0.17	3.26	11	1390	<1	1.74
1193088	2	<5	<5	0.3	6.13	10	111	<1	<2	7.94	0.6	42	108	92	7.82	16	<1	0.30	3.17	13	1350	<1	1.09
1193089	<2	<5	<5	0.5	6.23	<3	66	<1	<2	6.15	0.9	48	111	34	9.16	18	2	0.11	3.56	12	1460	<1	1.61
1193090	<2	<5	<5	0.3	5.39	<3	53	<1	<2	8.58	0.7	34	69	60	6.81	13	1	0.10	2.73	7	1190	<1	1.26
1193091	<2	<5	<5	0.3	6.53	<3	63	<1	<2	7.50	0.8	42	83	81	9.05	16	1	0.14	3.41	11	1440	<1	1.44
1193092	3	<5	<5	0.5	6.75	<3	60	<1	<2	6.17	1.5	44	65	126	9.19	17	2	0.13	3.18	12	1400	<1	2.32
1193093	<2	<5	<5	0.4	6.42	8	50	<1	<2	6.11	0.4	41	54	91	9.32	17	<1	0.13	3.11	6	1410	<1	1.82
1193094	<2	<5	<5	0.4	6.93	8	71	<1	<2	6.62	0.7	46	55	124	9.73	20	<1	0.20	3.25	7	1480	<1	1.83
1193095	<2	<5	<5	0.3	7.16	4	61	<1	<2	5.39	0.7	38	84	92	8.10	17	<1	0.15	2.89	9	1180	<1	2.54
1193096	<2	<5	<5	0.3	7.17	7	355	<1	2	4.74	0.4	25	48	69	5.78	16	1	1.37	1.92	15	881	<1	1.58
1193097	<2	<5	<5	0.6	7.73	4	465	<1	<2	4.13	0.5	27	63	76	5.35	20	<1	1.98	1.88	22	776	3	1.09
1193098	<2	<5	<5	<0.3	7.00	<3	38	<1	<2	8.42	0.8	41	164	103	7.35	16	<1	0.11	3.14	9	1360	<1	1.18
1193099	<2	<5	<5	<0.3	7.15	<3	46	<1	<2	7.65	0.7	45	161	124	7.96	16	<1	0.16	3.92	8	1400	<1	1.42
1193100	855	<5	<5	1.5	8.15	92	139	4	<2	2.75	2.4	25	59	95	5.68	24	1	2.51	2.17	2	521	1	3.12
1193101	10	<5	<5	0.3	7.30	<3	42	<1	<2	8.15	<0.3	46	131	131	8.03	16	<1	0.10	4.00	8	1370	<1	1.66
1193102	<2	<5	<5	0.7	5.64	7	898	2	<2	8.75	0.6	36	127	62	5.48	19	<1	2.51	4.95	35	1070	1	1.90
1193103	<2	<5	<5	0.4	6.41	6	461	<1	<2	5.57	0.6	45	123	58	7.83	13	<1	1.79	4.37	25	1100	<1	1.84
1193104	<2	<5	<5	0.4	7.23	6	399	<1	<2	6.82	0.6	46	123	113	8.57	16	2	0.39	4.01	13	1530	<1	1.89
1193105	<2	<5	<5	0.3	6.67	8	127	<1	<2	7.05	0.7	41	125	117	7.32	14	<1	0.42	3.34	17	1220	<1	1.51
1193106	<2	<5	<5	<0.3	6.81	5	42	<1	<2	7.41	1.0	41	132	94	7.58	16	1	0.15	3.46	12	1360	<1	1.24
1193107	<2	<5	<5	<0.3	6.24	7	41	<1	<2	7.16	1.0	39	140	118	7.59	15	<1	0.14	3.51	12	1370	<1	1.08

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193108	3	< 5	< 5	1.7	7.02	< 3	41	< 1	< 2	7.04	0.5	46	162	137	7.97	14	2	0.16	3.63	12	1410	< 1	1.42
1193109	< 2	< 5	< 5	0.6	6.98	8	463	3	< 2	2.74	0.5	24	5	20	8.48	25	2	1.18	1.25	17	1230	< 1	3.54
1193110	< 2	< 5	< 5	< 0.3	6.56	9	257	2	< 2	2.54	0.4	14	41	33	6.78	21	< 1	0.91	1.04	16	895	< 1	3.32
1193111	< 2	< 5	< 5	0.4	6.89	9	299	2	6	1.94	0.4	20	9	3	9.80	22	< 1	2.18	2.54	69	1190	< 1	0.77
1193112	< 2	< 5	< 5	0.5	6.92	18	307	2	< 2	2.62	0.9	20	4	5	8.71	22	< 1	1.78	2.13	45	1030	< 1	1.93
1193113	10	< 5	< 5	0.5	6.63	4	221	2	< 2	3.08	0.8	19	9	13	8.47	25	2	0.76	1.26	18	1060	< 1	3.02
1193114	< 2	< 5	< 5	0.8	6.78	9	290	2	< 2	2.41	0.4	15	6	21	9.01	24	1	1.11	1.36	19	981	< 1	2.96
1193115	< 2	< 5	< 5	0.7	6.67	< 3	198	2	< 2	4.87	0.6	13	7	5	6.56	23	2	0.53	1.06	14	1100	< 1	3.39
1193116	8	< 5	< 5	0.6	6.77	< 3	302	2	< 2	2.82	0.8	13	8	15	6.71	23	2	0.69	1.13	11	943	< 1	3.56
1193117	< 2	< 5	< 5	1.1	5.65	6	903	2	< 2	3.12	0.8	16	11	17	7.46	22	< 1	1.06	0.93	9	1180	1	2.71
1193118	< 2	< 5	< 5	0.8	6.27	3	> 1000	2	< 2	3.12	0.7	16	10	23	7.87	22	2	1.12	1.04	12	1320	< 1	2.71

## Results

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193059	12	0.067	9	< 5	0.48	36	171	4	0.43	< 5	< 10	58	< 5	24	159	32
1193060	96	0.100	91	< 5	2.46	7	319	8	0.65	< 5	< 10	84	< 5	7	155	87
1193061	12	0.072	12	< 5	0.62	28	92	< 2	0.55	< 5	< 10	70	< 5	28	249	140
1193062	9	0.104	7	< 5	0.52	14	141	6	0.54	< 5	< 10	9	< 5	41	156	314
1193063	8	0.050	4	< 5	0.03	11	95	13	0.29	< 5	< 10	5	< 5	38	68	296
1193064	5	0.053	10	15	0.50	10	144	5	0.41	< 5	< 10	5	< 5	34	28	390
1193065	6	0.044	12	< 5	0.21	10	92	< 2	0.30	< 5	< 10	3	< 5	31	173	228
1193066	5	0.048	4	< 5	0.06	9	182	5	0.33	< 5	< 10	4	< 5	36	267	353
1193067	3	0.054	7	< 5	0.04	10	101	< 2	0.38	10	< 10	4	< 5	45	88	415
1193068	2	0.125	35	< 5	0.28	12	213	9	0.74	< 5	< 10	18	9	25	489	233
1193069	80	0.035	5	< 5	0.25	40	181	6	0.28	6	< 10	177	< 5	9	173	43
1193070	78	0.032	4	< 5	0.31	41	180	< 2	0.27	< 5	< 10	168	< 5	9	148	39
1193071	79	0.038	< 3	< 5	0.16	43	152	13	0.27	< 5	< 10	146	< 5	10	113	41
1193072	516	0.045	< 3	6	0.01	20	329	14	0.26	< 5	< 10	127	6	8	123	83
1193073	667	0.038	63	< 5	0.03	19	383	13	0.25	7	< 10	118	< 5	9	102	81
1193074	96	0.062	19	< 5	0.46	40	228	11	0.63	< 5	< 10	196	6	15	271	93
1193075	287	0.039	3	< 5	0.07	26	283	< 2	0.41	< 5	< 10	172	5	10	102	54
1193076	531	0.047	< 3	< 5	0.03	19	434	14	0.31	< 5	< 10	120	< 5	8	84	77
1193077	200	0.030	5	< 5	0.14	31	225	2	0.27	< 5	< 10	140	< 5	7	135	35
1193078	72	0.041	< 3	< 5	0.21	40	194	< 2	0.67	6	< 10	271	< 5	10	109	78
1193079	589	0.040	3	< 5	0.01	21	233	11	0.22	< 5	< 10	102	< 5	8	76	71
1193080	9	< 0.001	< 3	< 5	0.06	< 4	3	< 2	0.03	< 5	< 10	< 2	< 5	< 1	1	16
1193081	663	0.044	21	< 5	< 0.01	19	251	11	0.18	< 5	< 10	101	< 5	8	72	76
1193082	715	0.047	< 3	< 5	0.01	18	72	4	0.23	< 5	< 10	102	< 5	8	75	77
1193083	722	0.049	< 3	< 5	< 0.01	20	49	< 2	0.29	< 5	< 10	108	< 5	9	62	78
1193084	701	0.048	< 3	< 5	< 0.01	20	38	< 2	0.29	< 5	< 10	107	< 5	9	59	77
1193085	111	0.037	< 3	< 5	0.18	37	298	< 2	0.46	< 5	< 10	188	< 5	20	86	53
1193086	58	0.035	< 3	< 5	0.15	46	81	7	0.34	< 5	< 10	182	< 5	23	85	40
1193087	77	0.029	< 3	< 5	0.05	42	94	12	0.30	< 5	< 10	199	< 5	20	78	57
1193088	67	0.032	< 3	< 5	0.03	38	126	< 2	0.56	< 5	< 10	246	< 5	18	69	57
1193089	96	0.037	< 3	< 5	0.02	38	99	11	0.66	< 5	< 10	291	< 5	19	88	64
1193090	66	0.025	< 3	< 5	0.04	33	89	3	0.22	< 5	< 10	157	< 5	17	65	44
1193091	69	0.035	9	9	0.03	43	95	4	0.34	< 5	< 10	207	< 5	21	87	63
1193092	56	0.039	< 3	< 5	0.08	45	90	15	0.53	< 5	< 10	240	< 5	24	96	73
1193093	52	0.037	< 3	< 5	0.08	45	135	16	0.50	< 5	< 10	234	< 5	24	85	64
1193094	57	0.043	< 3	< 5	0.13	48	136	15	0.61	< 5	< 10	275	< 5	25	101	57
1193095	57	0.047	3	< 5	0.12	40	111	18	0.39	< 5	< 10	180	< 5	23	92	67
1193096	41	0.039	< 3	< 5	0.07	29	51	9	0.24	< 5	< 10	109	< 5	20	84	95
1193097	50	0.043	< 3	< 5	0.16	26	65	12	0.35	< 5	< 10	128	< 5	19	77	150
1193098	112	0.021	< 3	< 5	0.08	42	136	< 2	0.28	< 5	< 10	208	< 5	16	70	39
1193099	124	0.022	< 3	< 5	0.09	40	137	17	0.32	< 5	< 10	193	< 5	15	71	42
1193100	90	0.095	84	< 5	2.42	7	306	7	0.63	< 5	< 10	82	< 5	7	151	84
1193101	118	0.022	< 3	< 5	0.06	43	160	< 2	0.33	< 5	< 10	206	< 5	16	71	45
1193102	204	0.334	4	< 5	0.17	21	859	14	0.18	< 5	< 10	135	< 5	30	87	207
1193103	118	0.131	< 3	< 5	0.30	38	392	21	0.52	< 5	< 10	205	< 5	17	87	139
1193104	107	0.035	< 3	< 5	0.17	45	388	< 2	0.50	< 5	< 10	240	< 5	18	76	59
1193105	105	0.024	< 3	< 5	0.16	39	141	< 2	0.33	7	< 10	174	< 5	15	63	37
1193106	97	0.023	< 3	< 5	0.08	39	182	< 2	0.34	< 5	< 10	200	< 5	15	62	46
1193107	99	0.027	< 3	< 5	0.06	37	156	6	0.48	< 5	< 10	234	< 5	14	71	49

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193108	105	0.025	< 3	< 5	0.07	42	113	17	0.33	< 5	< 10	219	< 5	17	92	52
1193109	3	0.122	3	< 5	0.14	16	237	< 2	0.23	< 5	< 10	7	< 5	31	61	149
1193110	4	0.097	4	< 5	0.23	13	233	3	0.41	< 5	< 10	7	< 5	37	44	168
1193111	6	0.118	< 3	< 5	< 0.01	21	184	12	0.22	5	< 10	9	< 5	34	54	78
1193112	5	0.101	< 3	< 5	0.01	21	254	< 2	0.32	< 5	< 10	12	< 5	31	49	113
1193113	3	0.167	6	< 5	0.06	17	213	12	0.40	< 5	< 10	8	< 5	33	80	162
1193114	4	0.197	< 3	< 5	0.09	14	172	5	0.38	< 5	< 10	7	< 5	48	54	240
1193115	5	0.126	< 3	< 5	0.05	14	246	5	0.32	< 5	< 10	5	< 5	36	39	207
1193116	2	0.100	< 3	< 5	0.12	13	319	11	0.27	< 5	< 10	5	< 5	30	46	210
1193117	2	0.143	< 3	< 5	0.26	12	228	18	0.65	< 5	< 10	9	< 5	26	60	298
1193118	2	0.129	< 3	< 5	0.18	14	195	9	0.32	< 5	< 10	6	< 5	34	74	216

QC

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas				31.9	2.16	430	633	1	1390	0.87	4.3	8		1210	23.5	16	9	0.04	0.21	7	889	16	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20		1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-4 Meas				3.6	6.66	100	137	2	11	1.04	0.6	14	56	6420	2.89	19	< 1	3.16	1.64	10	154	331	0.52
GXR-4 Cert				4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564
SDC-1 Meas					8.31	4	630	3		1.13		20	52	28	4.87	24	< 1	2.84	1.04	34	914		1.53
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
GXR-6 Meas				0.8	12.3	288	> 1000	1	< 2	0.17	0.8	14	74	77	5.92	32	< 1	2.04	0.63	33	1100	2	0.10
GXR-6 Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104
OREAS 14P Meas												668		9540	32.0								
OREAS 14P Cert												750		9970	37.2								
Oreas 72a (4 Acid Digest) Meas						< 3						151	175	330	9.61								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
SAR-M (U.S.G.S.) Meas				3.2	6.06	27	790	3	< 2	0.63	5.6	13	80	348	3.12	17		1.11	0.49	28	5140	7	1.16
SAR-M (U.S.G.S.) Cert				3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7		2.99	17		2.94	0.50	27.4	5220	13.1	1.140
DNC-1a Meas							94					54	129	98						3			
DNC-1a Cert							118					57.0	270	100.00						5.20			
OREAS 13b (4-Acid) Meas				0.9		44						76	8670	2420								7	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.000	2327.0000								9.0	
PK2 Meas	4760	6000	4580																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	4800	5870	4630																				
PK2 Cert	4785.000	5918.000	4749.000																				
SBC-1 Meas						26	651	3	< 2		1.9	23	101	33		28				168		2	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
CDN-PGMS-25 Meas	470	1860	374																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	461	1810	359																				
CDN-PGMS-25 Cert	483	1830	400																				
1193069 Orig	16	< 5	< 5																				
1193069 Dup	17	< 5	< 5																				
1193071 Orig				0.4	6.52	21	234	< 1	< 2	4.63	0.3	44	113	143	7.83	18	1	0.67	3.46	17	974	< 1	2.48
1193071 Dup				< 0.3	6.51	27	233	< 1	< 2	4.62	1.0	46	92	142	7.83	18	< 1	0.68	3.45	17	943	< 1	2.46
1193079 Orig	17	< 5	6																				
1193079 Dup	35	< 5	< 5																				
1193085 Orig				0.4	6.75	6	53	< 1	< 2	5.70	0.8	45	113	128	8.75	17	< 1	0.05	3.57	11	1230	< 1	2.05
1193085 Dup				0.4	6.86	11	53	< 1	< 2	5.78	0.9	48	126	131	8.78	18	< 1	0.05	3.62	11	1230	< 1	2.09
1193088 Orig	2	< 5	< 5	0.3	6.13	10	111	< 1	< 2	7.94	0.6	42	108	92	7.82	16	< 1	0.30	3.17	13	1350	< 1	1.09
1193088 Split	3	< 5	< 5	0.3	6.21	< 3	115	< 1	< 2	8.17	0.4	41	101	93	7.89	15	1	0.31	3.19	13	1340	< 1	1.12
1193090 Orig	< 2	< 5	< 5																				
1193090 Dup	< 2	< 5	< 5																				
1193103 Orig	< 2	< 5	< 5																				



Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193103 Dup	<2	<5	<5																				
1193108 Orig	3	<5	<5	1.7	7.02	<3	41	<1	<2	7.04	0.5	46	162	137	7.97	14	2	0.16	3.63	12	1410	<1	1.42
1193108 Split	<2	<5	<5	0.4	7.28	<3	42	<1	<2	7.24	1.1	47	156	145	8.24	15	<1	0.16	3.74	12	1420	<1	1.46
1193110 Orig				1.1	6.56	7	259	2	<2	2.56	0.4	14	10	28	6.85	21	2	0.93	1.04	16	912	<1	3.38
1193110 Dup				<0.3	6.57	10	256	2	<2	2.53	0.5	14	71	37	6.71	21	<1	0.90	1.04	16	877	<1	3.27
1193113 Orig	12	<5	<5																				
1193113 Dup	8	<5	<5																				
1193118 Orig	<2	<5	<5	0.8	6.27	3	>1000	2	<2	3.12	0.7	16	10	23	7.87	22	2	1.12	1.04	12	1320	<1	2.71
1193118 Split	<2	<5	<5	0.4	6.62	<3	>1000	2	<2	3.19	0.7	15	6	44	8.13	23	2	1.15	1.07	13	1340	<1	2.80
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01

QC

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	47	0.059	724	44	0.25	<4	281	5	0.03	<5	30	87	159	28	708	29
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	39	0.128	31	<5	1.76	8	211	3	0.29	7	<10	85	36	13	66	55
GXR-4 Cert	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	38	0.058	17	<5		18	182		0.38	<5	<10	73	<5		96	41
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	30	0.039	97	<5	0.02	29	39	<2		<5	<10	124	<5	11	132	73
GXR-6 Cert	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110
OREAS 14P Meas	>10000															
OREAS 14P Cert	21000															
Oreas 72a (4 Acid Digest) Meas	6550				1.69											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
SAR-M (U.S.G.S.) Meas	52	0.055	992	<5		10	152	4	0.26	<5	<10	52	11	33	975	
SAR-M (U.S.G.S.) Cert	41.5	0.07	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
DNC-1a Meas	250			<5		29	129		0.29			143		14	54	37
DNC-1a Cert	247			0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
OREAS 13b (4-Acid) Meas	2240				1.20										104	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
PK2 Meas																
PK2 Cert																
PK2 Meas																
PK2 Cert																
SBC-1 Meas	93		28	<5		22	175		0.52	7	<10	218	5	29	175	118

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
1193069 Orig																
1193069 Dup																
1193071 Orig	79	0.038	< 3	< 5	0.16	43	153	12	0.35	< 5	< 10	167	< 5	10	114	49
1193071 Dup	79	0.038	< 3	< 5	0.16	43	151	14	0.19	< 5	< 10	124	< 5	10	113	33
1193079 Orig																
1193079 Dup																
1193085 Orig	112	0.036	< 3	< 5	0.17	37	295	< 2	0.46	< 5	< 10	186	< 5	20	88	52
1193085 Dup	111	0.038	< 3	< 5	0.18	37	300	10	0.46	< 5	< 10	190	< 5	20	85	54
1193088 Orig	67	0.032	< 3	< 5	0.03	38	126	< 2	0.56	< 5	< 10	246	< 5	18	69	57
1193088 Split	71	0.025	< 3	< 5	0.03	40	129	3	0.27	< 5	< 10	192	< 5	19	72	51
1193090 Orig																
1193090 Dup																
1193103 Orig																
1193103 Dup																
1193108 Orig	105	0.025	< 3	< 5	0.07	42	113	17	0.33	< 5	< 10	219	< 5	17	92	52
1193108 Split	108	0.025	< 3	< 5	0.07	44	118	< 2	0.33	< 5	< 10	220	< 5	17	95	55
1193110 Orig	3	0.107	4	< 5	0.24	13	234	2	0.49	< 5	< 10	8	< 5	37	43	296
1193110 Dup	5	0.087	4	< 5	0.22	13	232	3	0.33	< 5	< 10	6	< 5	36	44	39
1193113 Orig																
1193113 Dup																
1193118 Orig	2	0.129	< 3	< 5	0.18	14	195	9	0.32	< 5	< 10	6	< 5	34	74	216
1193118 Split	2	0.126	5	< 5	0.19	15	200	16	0.27	< 5	< 10	6	< 5	35	79	125
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	3	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5



**Date Submitted:** 01-Apr-15  
**Invoice No.:** A15-02185  
**Invoice Date:** 20-Apr-15  
**Your Reference:**

Kasabonika Minerals Corporation  
Box 124  
Kasabonika ON P0V 1Y0  
Canada

ATTN: Tim Hannon

## CERTIFICATE OF ANALYSIS

37 Core samples were submitted for analysis.

The following analytical package was requested:

Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)  
Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT      **A15-02185**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.  
Quality Control



## Results

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193119	<2	33	29	<0.3	7.59	<3	42	<1	<2	7.59	0.6	45	35	10	7.63	18	1	0.54	3.84	18	1300	<1	1.46
1193120	<2	<5	<5	<0.3	0.02	<3	<7	<1	<2	0.11	<0.3	<1	8	2	0.05	<1	<1	<0.01	<0.01	3	17	<1	<0.01
1193121	<2	<5	<5	0.5	7.25	<3	> 1000	<1	<2	2.56	<0.3	13	72	15	2.62	18	<1	2.71	1.35	22	434	<1	2.45
1193122	4	34	24	<0.3	7.53	3	375	<1	<2	7.02	1.1	48	108	60	8.39	17	<1	0.98	4.60	32	1320	2	1.82
1193123	3	36	28	0.4	7.23	<3	136	<1	<2	6.21	0.8	49	42	198	7.33	16	<1	0.93	3.76	25	1360	1	2.02
1193124	<2	16	13	0.4	7.10	<3	535	<1	<2	6.31	0.7	48	235	106	7.38	17	<1	1.17	4.37	31	1210	1	1.86
1193125	8	11	8	<0.3	7.10	<3	625	<1	<2	6.27	0.8	40	262	165	6.29	17	<1	1.38	3.94	29	1040	<1	1.82
1193126	<2	40	35	<0.3	8.26	<3	68	<1	<2	9.46	0.5	49	56	17	6.39	18	<1	0.37	3.32	9	1020	<1	1.68
1193127	<2	45	34	<0.3	7.96	16	130	<1	2	9.65	<0.3	37	60	31	4.51	20	6	0.32	2.34	11	883	<1	1.18
1193128	<2	<5	<5	<0.3	10.8	<3	372	1	<2	6.11	<0.3	24	29	57	4.90	22	2	0.75	2.01	24	720	2	3.53
1193129	<2	5	<5	<0.3	9.50	3	278	<1	<2	5.94	0.9	30	35	71	5.62	22	<1	0.75	2.53	28	914	2	2.85
1193130	<2	13	12	0.4	8.12	5	123	<1	<2	7.84	0.5	47	70	140	8.75	19	<1	0.76	3.83	24	1540	2	1.49
1193131	<2	12	12	<0.3	7.90	<3	128	<1	<2	7.34	0.6	52	66	90	9.49	19	<1	0.72	3.94	24	1580	<1	1.58
1193132	<2	13	11	<0.3	8.24	5	119	<1	<2	7.55	1.3	49	71	118	9.14	20	2	0.61	3.75	21	1500	<1	1.69
1193133	<2	9	8	<0.3	7.31	<3	104	<1	<2	5.93	0.5	39	66	65	6.65	15	<1	1.04	3.02	17	1100	<1	1.74
1193134	<2	12	10	<0.3	7.76	<3	183	<1	<2	6.75	0.4	46	88	93	7.65	17	2	0.62	3.67	19	1360	19	1.79
1193135	<2	17	14	<0.3	7.55	<3	203	<1	<2	7.21	0.5	42	292	17	6.55	15	<1	0.59	4.32	17	1210	2	1.74
1193136	125	<5	<5	0.5	9.06	<3	774	1	<2	3.50	0.6	12	28	12	2.75	19	2	1.39	0.98	29	346	<1	3.20
1193137	<2	<5	<5	0.4	8.56	<3	735	2	<2	3.34	<0.3	13	12	22	2.99	19	<1	1.65	0.93	31	479	<1	2.98
1193138	<2	<5	<5	<0.3	3.66	3	95	<1	7	9.63	0.3	56	398	24	7.64	10	<1	0.46	7.37	28	1370	<1	0.97
1193139	6	32	22	0.3	7.16	11	265	<1	<2	5.59	0.8	66	9	186	12.2	23	<1	0.57	3.61	38	1270	<1	2.31
1193140	830	<5	<5	1.6	8.06	92	135	4	<2	2.76	3.1	24	58	99	5.61	26	<1	4.10	2.14	2	517	1	3.05
1193141	3	6	<5	0.3	2.66	<3	25	<1	2	5.85	2.5	94	1290	86	8.74	8	1	0.15	13.3	6	1380	<1	0.39
1193142	<2	5	5	0.3	2.93	<3	57	<1	<2	4.94	1.3	89	1230	94	7.46	8	<1	0.39	13.3	12	1180	<1	0.54
1193143	<2	5	<5	0.4	1.59	<3	109	<1	<2	4.71	1.4	89	1280	192	6.90	11	5	0.33	11.6	12	1190	<1	0.65
1193144	<2	<5	<5	0.5	7.14	<3	> 1000	<1	<2	1.18	<0.3	4	26	37	1.47	15	<1	2.28	0.60	38	199	2	2.29
1193145	<2	6	5	<0.3	2.43	<3	24	<1	<2	5.54	1.5	95	1750	43	7.19	6	<1	0.09	13.4	21	1230	<1	0.31
1193146	<2	<5	<5	<0.3	3.12	<3	125	<1	<2	5.08	1.4	81	1220	33	7.00	11	<1	0.54	12.4	12	1330	<1	0.52
1193147	2	7	7	<0.3	2.94	3	<7	<1	4	7.17	0.9	100	1040	52	8.16	9	<1	0.04	11.9	14	915	<1	0.32
1193148	<2	6	<5	0.3	1.79	<3	7	<1	<2	2.87	0.8	89	2260	7	7.97	5	<1	0.03	16.2	2	1020	<1	0.12
1193149	<2	<5	<5	<0.3	1.45	<3	<7	<1	6	1.70	<0.3	99	1030	2	7.36	5	2	0.03	18.0	<1	888	<1	0.10
1193150	<2	<5	<5	0.3	3.39	<3	505	<1	<2	1.98	1.6	87	1070	9	5.58	8	1	1.81	15.0	32	894	<1	0.08
1193151	<2	<5	<5	<0.3	1.67	<3	66	<1	<2	2.03	1.1	107	1620	10	6.71	4	<1	0.31	16.7	7	978	<1	0.10
1193152	<2	<5	<5	<0.3	2.69	<3	338	<1	3	3.67	2.2	84	1240	7	6.07	8	<1	1.23	13.2	35	894	<1	0.18
1193153	<2	<5	<5	<0.3	2.21	<3	20	<1	5	2.92	0.3	95	1380	13	6.76	5	2	0.12	16.8	1	1290	<1	0.15
1193154	<2	<5	<5	<0.3	2.42	<3	130	<1	<2	2.15	<0.3	101	1670	2	6.71	5	1	0.57	16.6	8	1230	<1	0.17
1193155	<2	<5	<5	0.6	8.76	<3	869	1	<2	3.32	0.4	12	14	32	3.21	19	<1	1.79	0.99	30	475	<1	2.92

## Results

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193119	66	0.021	5	< 5	0.01	53	69	< 2	0.36	< 5	< 10	249	< 5	15	71	32
1193120	9	< 0.001	< 3	< 5	0.06	< 4	3	< 2	0.03	< 5	< 10	< 2	< 5	< 1	2	16
1193121	46	0.056	15	< 5	0.02	9	373	3	0.22	< 5	< 10	56	< 5	10	45	111
1193122	100	0.086	< 3	< 5	0.05	48	373	12	0.51	< 5	< 10	259	< 5	17	86	45
1193123	58	0.020	< 3	< 5	0.12	48	105	5	0.33	< 5	< 10	233	< 5	16	85	34
1193124	129	0.109	< 3	< 5	0.09	36	421	11	0.51	< 5	< 10	213	< 5	17	82	60
1193125	140	0.110	< 3	< 5	0.08	31	418	8	0.40	< 5	< 10	160	< 5	16	72	52
1193126	70	0.026	< 3	< 5	0.02	64	78	< 2	0.33	< 5	< 10	258	9	15	69	21
1193127	63	0.026	12	14	0.03	49	86	15	0.25	< 5	< 10	172	< 5	16	60	28
1193128	30	0.082	< 3	< 5	0.17	15	753	6	0.29	6	< 10	92	< 5	8	68	29
1193129	49	0.067	5	5	0.25	18	501	30	0.38	< 5	< 10	135	< 5	9	81	37
1193130	84	0.031	< 3	< 5	0.47	36	135	7	0.50	< 5	< 10	228	< 5	18	90	60
1193131	93	0.032	< 3	< 5	0.22	38	152	< 2	0.50	< 5	< 10	237	< 5	18	86	41
1193132	79	0.029	< 3	< 5	0.37	36	153	< 2	0.50	< 5	< 10	238	< 5	17	79	40
1193133	75	0.017	7	< 5	0.17	28	98	4	0.25	< 5	< 10	138	< 5	15	62	40
1193134	96	0.020	< 3	< 5	0.24	30	175	2	0.43	< 5	< 10	189	< 5	14	73	48
1193135	134	0.023	3	< 5	0.05	32	199	11	0.29	< 5	< 10	162	< 5	13	74	48
1193136	11	0.055	4	< 5	0.04	6	563	6	0.24	< 5	< 10	45	< 5	7	44	98
1193137	11	0.075	8	< 5	0.07	7	532	7	0.25	< 5	< 10	52	< 5	9	53	119
1193138	224	0.014	< 3	< 5	< 0.01	55	110	< 2	0.24	< 5	< 10	182	< 5	10	60	28
1193139	84	0.031	< 3	< 5	0.02	26	282	24	0.48	< 5	< 10	273	< 5	18	78	47
1193140	89	0.097	85	< 5	2.42	7	312	7	0.63	< 5	< 10	83	< 5	7	157	83
1193141	1160	0.011	104	< 5	0.04	27	31	< 2	0.24	< 5	< 10	144	< 5	6	136	18
1193142	1240	0.010	10	< 5	0.04	24	62	8	0.19	< 5	< 10	123	< 5	7	41	19
1193143	1170	0.013	47	10	0.05	10	75	< 2	0.18	23	< 10	109	10	5	67	27
1193144	14	0.019	18	< 5	< 0.01	< 4	240	2	0.10	< 5	< 10	13	< 5	4	34	94
1193145	1330	0.010	13	< 5	0.02	23	31	7	0.19	< 5	< 10	123	< 5	6	36	16
1193146	1050	0.012	38	< 5	0.02	21	67	< 2	0.20	< 5	< 10	118	< 5	6	55	28
1193147	953	0.011	3	< 5	0.09	28	22	< 2	0.25	< 5	< 10	147	< 5	7	30	22
1193148	1450	0.008	< 3	6	0.19	18	12	12	0.16	< 5	< 10	98	< 5	4	61	14
1193149	1750	0.006	46	< 5	0.07	15	5	3	0.11	< 5	< 10	76	< 5	3	32	10
1193150	1250	0.005	153	< 5	0.07	11	39	3	0.14	< 5	< 10	64	< 5	5	125	43
1193151	1690	0.006	42	< 5	0.15	14	14	< 2	0.11	< 5	< 10	67	< 5	4	180	15
1193152	1200	0.015	43	< 5	0.13	11	62	2	0.18	< 5	< 10	75	< 5	5	201	41
1193153	1570	0.007	5	< 5	0.11	16	7	7	0.13	< 5	< 10	79	< 5	4	73	13
1193154	1590	0.005	7	< 5	0.10	13	32	10	0.09	< 5	< 10	61	< 5	3	58	22
1193155	14	0.092	10	< 5	0.14	7	540	6	0.27	< 5	< 10	57	< 5	10	52	131

QC

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas				31.9	2.16	430	633	1	1390	0.87	4.3	8		1210	23.5	16	9	0.04	0.21	7	889	16	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20		1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-4 Meas				3.6	6.66	100	137	2	11	1.04	0.6	14	56	6420	2.89	19	< 1	3.16	1.64	10	154	331	0.52
GXR-4 Cert				4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564
SDC-1 Meas					8.31	4	630	3		1.13		20	52	28	4.87	24	< 1	2.84	1.04	34	914		1.53
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
GXR-6 Meas				0.8	12.3	288	> 1000	1	< 2	0.17	0.8	14	74	77	5.92	32	< 1	2.04	0.63	33	1100	2	0.10
GXR-6 Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104
OREAS 14P Meas												668		9540	32.0								
OREAS 14P Cert												750		9970	37.2								
Oreas 72a (4 Acid Digest) Meas						< 3						151	175	330	9.61								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
SAR-M (U.S.G.S.) Meas				3.2	6.06	27	790	3	< 2	0.63	5.6	13	80	348	3.12	17		1.11	0.49	28	5140	7	1.16
SAR-M (U.S.G.S.) Cert				3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7		2.99	17		2.94	0.50	27.4	5220	13.1	1.140
DNC-1a Meas							94					54	129	98						3			
DNC-1a Cert							118					57.0	270	100.00						5.20			
OREAS 13b (4-Acid) Meas				0.9		44						76	8670	2420								7	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.000	2327.0000								9.0	
PK2 Meas	4720	5760	4580																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	4950	6080	4750																				
PK2 Cert	4785.000	5918.000	4749.000																				
SBC-1 Meas						26	651	3	< 2		1.9	23	101	33		28				168		2	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
CDN-PGMS-25 Meas	467	1820	371																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	487	1830	392																				
CDN-PGMS-25 Cert	483	1830	400																				
1193121 Orig				0.5	7.43	< 3	> 1000	< 1	< 2	2.62	< 0.3	13	67	15	2.68	17	< 1	2.83	1.37	23	440	< 1	2.50
1193121 Dup				0.4	7.07	< 3	> 1000	< 1	< 2	2.49	0.4	13	77	15	2.57	18	< 1	2.59	1.32	22	428	< 1	2.39
1193129 Orig	< 2	6	< 5																				
1193129 Dup	< 2	5	6																				
1193139 Orig	6	31	21																				
1193139 Dup	6	34	22																				
1193146 Orig				0.3	3.15	< 3	125	< 1	< 2	5.10	1.2	79	1120	33	7.03	11	< 1	0.54	12.5	12	1320	< 1	0.52
1193146 Dup				< 0.3	3.10	< 3	124	< 1	4	5.07	1.6	84	1330	33	6.97	11	< 1	0.54	12.4	11	1340	< 1	0.52
1193148 Orig	< 2	6	< 5	0.3	1.79	< 3	7	< 1	< 2	2.87	0.8	89	2260	7	7.97	5	< 1	0.03	16.2	2	1020	< 1	0.12
1193148 Split	< 2	< 5	< 5	< 0.3	1.79	< 3	< 7	< 1	< 2	2.90	0.3	90	2380	6	8.12	6	< 1	0.02	16.5	2	1030	< 1	0.12
1193149 Orig	< 2	< 5	< 5																				
1193149 Dup	< 2	< 5	< 5																				
1193155 Orig	< 2	< 5	< 5																				

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193155 Dup	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01

QC

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	47	0.059	724	44	0.25	<4	281	5	0.03	<5	30	87	159	28	708	29
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	39	0.128	31	<5	1.76	8	211	3	0.29	7	<10	85	36	13	66	55
GXR-4 Cert	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	38	0.058	17	<5		18	182		0.38	<5	<10	73	<5		96	41
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	30	0.039	97	<5	0.02	29	39	<2		<5	<10	124	<5	11	132	73
GXR-6 Cert	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110
OREAS 14P Meas	>10000															
OREAS 14P Cert	21000															
Oreas 72a (4 Acid Digest) Meas	6550				1.69											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
SAR-M (U.S.G.S.) Meas	52	0.055	992	<5		10	152	4	0.26	<5	<10	52	11	33	975	
SAR-M (U.S.G.S.) Cert	41.5	0.07	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
DNC-1a Meas	250			<5		29	129		0.29			143		14	54	37
DNC-1a Cert	247			0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
OREAS 13b (4-Acid) Meas	2240				1.20										104	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
PK2 Meas																
PK2 Cert																
PK2 Meas																
PK2 Cert																
SBC-1 Meas	93		28	<5		22	175		0.52	7	<10	218	5	29	175	118
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
1193121 Orig	48	0.058	14	<5	0.02	10	385	3	0.23	<5	<10	57	<5	10	45	111
1193121 Dup	45	0.055	17	<5	0.02	9	361	3	0.22	<5	<10	55	<5	10	45	112
1193129 Orig																

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193129 Dup																
1193139 Orig																
1193139 Dup																
1193146 Orig	1050	0.012	35	< 5	0.02	21	68	< 2	0.20	< 5	< 10	119	< 5	6	56	28
1193146 Dup	1050	0.011	40	< 5	0.02	22	67	14	0.20	6	< 10	118	5	6	53	28
1193148 Orig	1450	0.008	< 3	6	0.19	18	12	12	0.16	< 5	< 10	98	< 5	4	61	14
1193148 Split	1470	0.007	5	< 5	0.20	18	12	< 2	0.16	< 5	< 10	99	< 5	4	61	14
1193149 Orig																
1193149 Dup																
1193155 Orig																
1193155 Dup																
Method Blank																
Method Blank																
Method Blank																
Method Blank	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	3	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5





**Date Submitted:** 24-Apr-15  
**Invoice No.:** A15-02813  
**Invoice Date:** 05-May-15  
**Your Reference:**

Kasabonika Minerals Corporation  
Box 124  
Kasabonika ON P0V 1Y0  
Canada

ATTN: Tim Hannon

## CERTIFICATE OF ANALYSIS

1 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A15-02813**

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

Notes:

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

CERTIFIED BY:

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

Emmanuel Eseme , Ph.D.  
Quality Control



Results

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Kas-003	< 0.2	< 0.5	860	704	< 1	134	< 2	41	2.49	3	< 10	92	< 0.5	< 2	1.74	61	40	6.18	< 10	< 1	0.76	< 10	1.84

Results

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Kas-003	0.189	0.021	0.61	5	14	15	0.24	2	< 2	< 10	120	< 10	7	6

QC

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	30.3	3.2	1130	828	15	29	650	687	0.36	378	10	342	0.7	1520	0.74	6	9	22.3	< 10	4	0.03	< 10	0.13
GXR-1 Cert	31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-4 Meas	3.7	< 0.5	6460	143	314	39	36	65	2.90	98	< 10	30	1.3	47	0.85	13	53	2.98	10	< 1	1.73	48	1.60
GXR-4 Cert	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-6 Meas	0.3	< 0.5	69	1060	2	22	92	120	7.43	213	< 10	884	0.8	5	0.14	12	78	5.57	20	< 1	1.18	10	0.40
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
SAR-M (U.S.G.S.) Meas	3.5	5.0	346	4650	12	43	1030	1000	1.22	35		181	1.0	< 2	0.29	10	88	2.82	< 10		0.29	50	0.35
SAR-M (U.S.G.S.) Cert	3.64	5.27	331.0000	5220	13.1	41.5	982	930.0	6.30	38.8		801	2.20	1.94	0.61	10.70	79.7	2.99	17		2.94	57.4	0.50
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01

QC

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.051	0.044	0.20	84	1	176	< 0.01	12	< 2	31	76	142	24	17
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	0.142	0.123	1.76	3	7	70	0.13	6	< 2	< 10	79	11	11	11
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.080	0.033	0.01	3	20	30		< 1	< 2	< 10	164	< 10	5	9
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110
SAR-M (U.S.G.S.) Meas	0.037	0.066		4	3	30	0.05	5	< 2	< 10	34	< 10	21	
SAR-M (U.S.G.S.) Cert	1.140	0.07		6.0	7.83	151	0.38	0.96	2.7	3.57	67.2	9.78	28.00	
Method Blank	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1



**Date Submitted:** 10-Jul-15  
**Invoice No.:** A15-05100 (i)  
**Invoice Date:** 04-Aug-15  
**Your Reference:**

Kasabonika Minerals Corporation  
Box 124  
Kasabonika ON P0V 1Y0  
Canada

ATTN: Tim Hannon

## CERTIFICATE OF ANALYSIS

153 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)  
Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A15-05100 (i)**

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

Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.  
Quality Control



## Results

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193156	<2	<5	<5	1.0	7.59	5	313	<1	2	6.54	<0.3	72	6	136	12.2	23	<1	0.92	2.71	23	820	<1	1.79
1193157	<2	<5	<5	0.3	7.37	<3	333	<1	<2	6.98	<0.3	67	13	188	12.8	23	<1	0.99	3.40	26	1040	<1	1.84
1193158	<2	<5	<5	<0.3	7.99	<3	499	<1	3	6.76	<0.3	60	14	111	12.3	25	<1	1.13	3.03	28	944	<1	1.91
1193159	<2	<5	<5	0.4	8.09	<3	427	<1	6	6.38	<0.3	56	9	111	11.3	24	1	1.09	2.87	31	863	<1	1.95
1193160	<2	<5	<5	<0.3	0.02	<3	<7	<1	<2	0.11	<0.3	<1	18	2	0.06	<1	<1	<0.01	<0.01	5	39	<1	<0.01
1193161	<2	<5	<5	0.3	7.11	<3	311	<1	6	5.59	<0.3	51	12	96	10.2	22	<1	1.58	2.52	33	825	<1	1.92
1193162	<2	<5	<5	0.3	7.10	<3	581	<1	<2	3.75	<0.3	27	17	55	5.65	20	<1	1.70	1.49	33	527	<1	2.42
1193163	<2	<5	<5	0.5	4.53	<3	117	3	<2	0.40	<0.3	<1	23	7	0.32	17	<1	1.59	0.06	4	52	<1	2.40
1193164	<2	<5	<5	0.7	6.84	<3	712	<1	3	4.35	<0.3	45	11	102	8.00	21	<1	1.69	2.24	45	742	<1	2.29
1193165	<2	<5	<5	0.4	3.17	<3	>1000	<1	<2	1.47	<0.3	10	18	21	1.81	14	<1	0.76	0.49	18	207	1	2.51
1193166	<2	<5	<5	<0.3	5.67	<3	>1000	<1	<2	2.54	<0.3	20	48	151	2.30	13	<1	1.34	1.07	13	356	1	2.15
1193167	<2	7	<5	<0.3	4.85	<3	298	<1	<2	5.25	<0.3	64	800	55	7.45	13	2	1.75	6.94	45	1240	<1	1.16
1193168	<2	<5	<5	0.4	4.61	<3	522	<1	<2	4.57	0.7	67	751	24	7.00	16	<1	1.50	7.06	59	1190	<1	1.02
1193169	<2	<5	<5	0.4	7.48	<3	571	<1	<2	4.29	<0.3	35	36	166	5.73	19	<1	1.04	1.76	29	560	<1	2.63
1193170	<2	<5	<5	<0.3	6.84	6	336	<1	<2	6.71	<0.3	65	28	256	11.3	22	<1	0.93	2.95	25	906	<1	1.64
1193171	<2	<5	<5	0.6	6.82	<3	127	3	<2	1.33	<0.3	6	14	31	1.15	19	<1	1.48	0.26	7	131	<1	3.02
1193172	<2	<5	<5	0.4	7.08	<3	471	1	3	5.35	<0.3	62	19	198	9.39	21	<1	1.62	2.55	25	791	<1	1.80
1193173	7	<5	<5	0.3	5.90	<3	183	<1	3	8.57	<0.3	68	53	133	11.9	19	<1	0.50	4.36	16	1150	<1	1.09
1193174	<2	<5	<5	0.5	7.67	<3	382	<1	3	6.30	<0.3	62	19	169	10.4	21	<1	1.08	2.78	33	847	<1	1.83
1193175	<2	<5	<5	0.8	2.68	<3	>1000	<1	<2	1.33	<0.3	7	20	24	1.15	12	<1	0.91	0.34	13	119	1	2.13
1193176	<2	<5	<5	0.5	7.23	<3	358	<1	4	6.53	<0.3	61	17	466	11.3	22	<1	1.20	2.53	32	884	<1	1.72
1193177	2	<5	<5	0.8	6.89	8	228	<1	4	7.36	<0.3	71	33	324	12.4	21	<1	0.70	3.26	22	1030	<1	1.42
1193178	<2	<5	<5	<0.3	7.43	8	394	<1	<2	5.88	<0.3	61	35	202	10.1	22	<1	1.18	2.21	35	756	<1	1.97
1193179	<2	<5	<5	<0.3	6.35	6	313	<1	<2	6.58	<0.3	63	22	224	10.5	21	1	0.92	2.98	23	970	<1	1.75
1193180	826	<5	<5	1.4	6.94	87	147	5	4	2.91	2.1	26	63	98	5.78	25	<1	1.31	2.22	3	582	1	3.21
1193181	5	<5	<5	0.4	7.70	4	411	<1	4	6.52	<0.3	52	19	169	10.1	23	<1	1.30	2.80	36	910	<1	1.68
1193182	<2	<5	<5	<0.3	7.50	<3	357	<1	<2	6.76	<0.3	43	67	74	7.53	17	<1	1.39	3.11	27	936	<1	1.94
1193183	<2	<5	<5	0.5	7.21	8	158	1	<2	1.27	<0.3	6	9	12	1.23	13	<1	0.61	0.39	7	199	3	6.07
1193184	<2	<5	<5	0.3	7.13	<3	630	1	3	4.15	0.3	28	50	48	5.47	20	<1	0.99	1.74	38	684	2	2.53
1193185	<2	<5	<5	0.6	8.01	3	323	1	<2	5.66	0.3	27	31	21	5.50	20	<1	1.23	1.74	26	750	<1	4.06
1193186	<2	<5	<5	<0.3	7.56	7	529	1	<2	6.47	<0.3	69	19	218	12.4	23	2	1.47	2.73	29	919	<1	1.20
1193187	<2	<5	<5	0.3	6.65	5	256	<1	<2	6.31	<0.3	58	75	222	9.29	21	<1	1.40	2.11	19	757	<1	1.52
1193188	<2	<5	<5	<0.3	7.38	<3	245	<1	<2	8.03	<0.3	48	82	179	8.37	21	<1	0.92	3.09	19	960	<1	1.83
1193189	<2	<5	<5	0.4	7.92	<3	510	<1	<2	6.14	<0.3	36	50	77	6.21	21	<1	1.22	2.14	23	667	<1	2.36
1193190	<2	<5	<5	<0.3	6.51	<3	216	1	<2	3.12	<0.3	22	41	79	3.45	17	<1	1.59	1.01	9	416	<1	2.37
1193191	<2	<5	<5	<0.3	6.25	<3	273	2	<2	0.77	<0.3	<1	8	50	0.40	15	<1	3.21	0.07	4	101	<1	2.68
1193192	<2	<5	<5	<0.3	7.29	<3	309	<1	2	7.25	<0.3	49	65	166	8.50	21	<1	1.19	2.93	20	893	<1	1.94
1193193	<2	<5	<5	<0.3	7.84	<3	227	1	3	8.33	<0.3	48	92	133	7.70	21	1	0.68	3.04	20	915	<1	2.22
1193194	<2	<5	<5	0.4	6.60	<3	237	<1	<2	6.93	<0.3	48	73	167	6.97	19	<1	0.69	2.37	17	739	<1	1.96
1193195	<2	<5	<5	0.4	7.53	4	374	<1	5	7.24	<0.3	62	66	273	9.96	21	5	1.05	2.56	19	856	<1	1.70
1193196	<2	<5	<5	0.6	6.89	8	429	1	<2	3.60	<0.3	21	27	97	2.57	15	<1	0.62	0.70	7	269	2	2.83
1193197	<2	<5	<5	0.4	7.16	<3	>1000	<1	3	4.92	0.3	31	40	59	5.50	18	<1	1.52	1.90	13	624	<1	2.04
1193198	<2	<5	<5	0.5	4.82	<3	669	<1	<2	1.80	<0.3	11	28	27	1.84	12	<1	0.95	0.58	8	255	<1	2.40
1193199	<2	<5	<5	0.3	6.70	3	667	1	5	8.70	<0.3	34	87	69	6.05	17	<1	1.57	3.03	13	966	<1	2.08
1193200	<2	<5	<5	<0.3	0.02	<3	<7	<1	<2	0.12	<0.3	<1	14	<1	0.05	<1	<1	<0.01	<0.01	4	32	<1	<0.01
1193201	<2	<5	<5	<0.3	7.54	<3	400	1	<2	6.33	<0.3	32	98	53	5.63	18	<1	1.24	2.88	11	842	<1	2.32
1193202	<2	<5	<5	<0.3	7.78	5	238	<1	2	7.53	<0.3	37	109	60	6.04	19	<1	1.16	3.34	10	959	1	2.12
1193203	<2	<5	<5	<0.3	7.17	<3	403	<1	<2	7.27	<0.3	34	62	65	6.79	19	<1	1.39	2.85	22	941	<1	1.56
1193204	<2	<5	<5	0.6	3.24	6	291	<1	4	5.52	<0.3	46	46	96	8.64	19	<1	0.68	2.22	19	959	<1	1.63

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193205	<2	<5	<5	0.4	6.97	5	513	<1	<2	5.13	<0.3	23	107	30	4.19	16	1	1.20	2.71	21	796	<1	2.15
1193206	<2	<5	<5	<0.3	7.26	<3	797	<1	<2	3.58	<0.3	16	60	20	2.87	15	<1	1.31	1.53	22	527	<1	2.41
1193207	<2	<5	<5	0.4	7.38	<3	>1000	<1	<2	3.82	<0.3	17	56	22	3.02	15	<1	1.54	1.85	23	570	<1	2.23
1193208	<2	<5	<5	0.4	8.08	8	423	<1	11	5.40	<0.3	25	69	30	4.01	17	<1	1.11	2.73	24	728	1	2.49
1193209	<2	<5	<5	0.3	7.36	<3	602	1	<2	4.51	<0.3	22	47	44	3.98	18	<1	1.23	2.07	19	737	<1	2.41
1193210	<2	<5	<5	0.4	7.89	<3	902	<1	<2	5.92	<0.3	31	43	52	6.20	20	<1	1.39	2.85	27	1050	<1	2.39
1193211	<2	<5	<5	0.5	8.11	8	>1000	<1	<2	5.96	<0.3	32	36	55	6.93	20	2	1.57	2.77	32	994	<1	2.41
1193212	<2	<5	<5	<0.3	7.81	<3	938	<1	3	5.42	<0.3	32	50	47	5.93	21	<1	1.43	2.62	30	926	<1	2.62
1193213	<2	<5	<5	<0.3	6.95	<3	>1000	<1	3	5.78	<0.3	46	15	98	9.20	22	1	1.27	2.50	26	1100	<1	2.34
1193214	<2	<5	<5	0.4	4.56	<3	>1000	<1	<2	4.26	<0.3	33	15	64	6.42	17	<1	1.24	1.63	24	802	<1	2.37
1193215	<2	<5	<5	0.6	6.52	<3	862	<1	2	5.55	0.3	36	74	80	7.29	20	<1	1.30	2.54	31	1020	<1	2.36
1193216	<2	<5	<5	0.4	7.32	<3	>1000	<1	<2	2.95	<0.3	15	13	26	3.11	18	<1	1.49	0.89	19	438	<1	2.71
1193217	<2	<5	<5	<0.3	7.84	3	531	1	<2	5.86	<0.3	44	12	97	9.08	21	1	1.50	2.62	32	1120	<1	2.48
1193218	<2	<5	<5	<0.3	7.75	<3	857	1	9	5.52	<0.3	39	17	78	8.20	22	<1	1.90	2.48	31	1220	<1	2.54
1193219	<2	<5	<5	<0.3	8.26	<3	>1000	<1	<2	5.60	<0.3	39	12	70	8.51	24	<1	2.02	2.50	33	1220	<1	2.56
1193220	791	<5	<5	1.6	6.92	82	152	5	6	2.86	1.8	27	62	95	5.73	22	1	2.15	2.18	3	569	1	3.16
1193221	<2	<5	<5	<0.3	8.00	<3	>1000	<1	<2	5.47	<0.3	36	11	100	8.48	20	<1	1.99	2.29	31	1180	1	2.69
1193222	<2	<5	<5	0.3	7.57	<3	>1000	1	<2	4.31	<0.3	26	12	42	6.25	20	<1	2.28	1.71	27	1040	<1	2.78
1193223	<2	<5	<5	<0.3	7.62	4	>1000	1	<2	4.88	<0.3	30	10	81	7.52	21	<1	2.25	1.98	26	1300	<1	2.80
1193224	<2	<5	<5	0.4	3.76	<3	>1000	<1	4	4.02	<0.3	29	13	42	6.46	18	<1	1.37	1.39	23	1430	2	2.39
1193225	<2	<5	<5	0.5	4.69	3	895	<1	<2	4.61	<0.3	15	13	64	9.30	18	<1	1.25	1.44	22	2490	4	2.44
1193226	<2	<5	<5	2.4	7.52	<3	>1000	<1	<2	2.43	<0.3	8	18	34	7.07	18	<1	1.48	0.86	29	1570	8	2.92
1193227	<2	14	11	<0.3	5.64	<3	88	<1	<2	6.34	<0.3	51	125	99	8.21	14	<1	0.70	4.73	13	1600	<1	1.90
1193228	<2	<5	<5	0.7	7.81	<3	277	1	<2	2.08	<0.3	34	126	39	6.97	18	<1	1.61	1.51	77	1120	<1	2.53
1193229	<2	<5	<5	0.4	7.18	<3	325	1	<2	6.53	<0.3	29	69	15	5.46	20	<1	0.87	2.23	25	1680	1	2.20
1193230	<2	<5	<5	0.4	7.89	<3	>1000	<1	4	5.70	<0.3	29	72	48	5.65	20	<1	1.26	1.98	36	1570	<1	2.65
1193231	<2	<5	<5	0.6	8.33	<3	>1000	<1	<2	6.20	<0.3	34	107	52	7.19	22	<1	1.13	1.52	27	2240	<1	2.83
1193232	<2	<5	<5	0.4	8.26	<3	357	<1	<2	7.02	<0.3	41	118	24	6.89	20	<1	0.54	2.12	18	2330	<1	3.03
1193233	<2	<5	<5	0.5	7.65	<3	336	<1	<2	6.32	<0.3	43	129	56	8.02	17	<1	0.72	3.22	29	2160	<1	2.79
1193234	<2	<5	<5	0.5	7.67	<3	330	<1	3	4.92	<0.3	41	156	78	7.34	18	<1	1.10	3.15	39	1670	<1	2.74
1193235	<2	<5	<5	0.6	7.06	<3	238	<1	<2	4.32	<0.3	35	110	38	5.85	17	<1	1.00	2.41	33	1410	<1	2.63
1193236	<2	<5	<5	0.6	7.31	<3	320	1	<2	3.55	<0.3	28	84	27	4.52	13	<1	0.99	1.73	36	1000	<1	2.86
1193237	<2	<5	<5	<0.3	7.43	6	256	<1	<2	5.17	<0.3	39	104	69	6.86	15	<1	0.93	2.78	35	1700	<1	2.69
1193238	<2	<5	<5	0.3	7.80	<3	433	<1	<2	6.01	<0.3	45	103	45	6.64	18	<1	1.01	2.52	34	1820	<1	2.53
1193239	<2	<5	<5	0.5	7.64	<3	331	<1	<2	5.77	<0.3	48	114	6	7.09	17	<1	0.89	2.89	35	1970	<1	2.79
1193240	<2	<5	<5	<0.3	0.02	<3	<7	<1	<2	0.11	<0.3	<1	15	2	0.06	<1	<1	<0.01	<0.01	5	19	2	<0.01
1193241	<2	<5	<5	0.3	7.28	<3	207	<1	3	6.55	<0.3	43	115	63	7.72	18	<1	0.41	2.86	23	2100	<1	2.56
1193242	<2	<5	<5	0.4	7.72	<3	230	<1	<2	5.91	<0.3	45	141	66	7.41	17	<1	0.43	2.54	19	1990	<1	2.88
1193243	<2	<5	<5	0.6	4.25	<3	182	<1	<2	6.14	<0.3	47	218	112	9.42	16	1	0.48	1.75	20	2620	1	2.65
1193244	<2	<5	<5	0.8	6.70	<3	280	<1	3	5.41	<0.3	48	204	485	11.2	18	6	1.00	2.11	42	3310	3	2.55
1193245	<2	<5	<5	0.5	6.89	<3	471	<1	<2	5.94	<0.3	27	183	3	5.50	19	<1	0.77	1.62	13	2340	<1	2.85
1193246	<2	<5	<5	<0.3	7.07	<3	251	2	<2	12.5	1.4	30	134	15	5.39	15	<1	0.38	0.81	5	2870	<1	2.02
1193247	<2	<5	<5	0.7	7.51	17	401	1	<2	7.68	0.7	48	147	167	8.18	19	5	0.72	1.27	9	2700	<1	2.78
1193248	<2	<5	<5	0.6	7.27	<3	557	1	<2	6.07	0.5	26	151	74	5.58	16	<1	1.03	0.92	3	2080	<1	3.07
1193249	<2	<5	<5	0.5	7.22	<3	589	1	<2	6.62	<0.3	26	172	66	4.84	18	<1	1.05	0.87	3	1870	<1	3.08
1193250	<2	<5	<5	0.5	7.36	<3	601	1	<2	5.95	0.5	36	139	66	4.84	21	<1	1.55	1.19	11	1730	<1	3.10
1193251	<2	<5	<5	<0.3	6.48	<3	19	4	<2	0.80	<0.3	<1	11	12	0.45	18	<1	3.11	0.04	4	319	<1	3.28
1193252	<2	<5	<5	0.6	7.78	<3	672	1	<2	4.67	<0.3	28	104	130	4.86	20	<1	1.70	1.29	24	1470	<1	3.16
1193253	<2	<5	<5	0.7	4.43	<3	989	1	<2	1.66	<0.3	6	29	2	1.60	15	<1	1.49	0.44	20	336	<1	2.51
1193254	<2	<5	<5	1.3	7.82	<3	>1000	1	<2	3.39	<0.3	13	26	29	3.63	23	<1	1.52	0.99	30	513	<1	3.04

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193255	<2	<5	<5	0.6	6.42	<3	401	1	2	3.44	<0.3	12	9	16	6.17	16	<1	1.58	0.90	14	1910	<1	2.42
1193256	<2	<5	<5	0.6	6.96	<3	392	1	<2	3.70	<0.3	16	4	8	6.30	17	<1	1.25	1.03	17	1330	<1	2.93
1193257	<2	<5	<5	0.6	6.83	8	432	1	<2	2.57	<0.3	16	5	9	6.14	17	<1	1.21	0.92	14	1050	<1	2.69
1193258	<2	<5	<5	0.6	6.99	5	465	1	11	3.19	<0.3	17	6	10	6.57	18	<1	1.43	1.08	18	1100	<1	2.60
1193259	2	<5	<5	1.1	7.57	7	728	1	<2	4.10	<0.3	20	25	29	4.54	19	<1	1.73	1.54	20	776	<1	2.47
1193260	817	<5	<5	1.5	6.87	85	156	4	3	2.90	2.4	27	65	101	5.89	23	<1	2.87	2.21	3	585	<1	3.29
1193261	5	<5	<5	0.4	7.13	<3	432	1	<2	3.63	<0.3	16	7	11	6.17	19	<1	1.45	1.02	15	1180	<1	2.84
1193262	<2	<5	<5	0.6	7.30	<3	364	1	7	3.08	<0.3	19	8	8	6.79	18	1	1.28	1.17	15	1100	<1	3.03
1193263	<2	<5	<5	0.8	4.29	4	371	1	4	2.46	<0.3	19	4	12	5.90	17	<1	0.88	1.03	13	1080	1	3.07
1193264	<2	<5	<5	0.9	6.80	8	604	1	2	2.97	<0.3	19	8	17	6.41	18	<1	1.44	1.19	15	1160	<1	2.75
1193265	<2	<5	<5	0.6	6.78	<3	332	1	<2	4.03	<0.3	15	5	14	6.40	16	<1	1.32	1.04	17	1160	<1	2.19
1193266	<2	<5	<5	0.6	7.06	5	382	1	<2	3.31	<0.3	18	7	17	6.53	17	<1	1.62	1.01	17	1010	<1	2.67
1193267	<2	<5	<5	0.5	6.71	<3	428	1	8	3.70	<0.3	16	4	18	6.47	19	<1	1.66	1.05	17	1160	<1	2.41
1193268	3	<5	<5	0.7	7.25	<3	492	1	<2	3.78	<0.3	17	5	14	6.54	19	2	1.70	0.99	19	1130	<1	2.39
1193269	<2	<5	<5	0.4	7.16	<3	518	1	4	3.34	<0.3	16	5	14	6.58	19	<1	1.72	1.11	18	1000	<1	2.70
1193270	<2	<5	<5	0.4	6.71	<3	296	1	6	4.84	<0.3	15	7	17	6.20	19	<1	1.61	0.88	15	1400	<1	2.83
1193271	<2	<5	<5	0.4	7.49	<3	365	1	<2	3.53	<0.3	18	6	20	5.30	20	<1	2.05	0.77	14	1030	<1	2.69
1193272	<2	<5	<5	0.5	6.68	<3	345	1	<2	3.24	<0.3	16	8	13	5.06	17	<1	1.60	0.82	14	1120	<1	2.29
1193273	8	<5	<5	0.6	6.88	<3	430	1	<2	3.63	<0.3	15	7	12	5.98	19	<1	1.30	0.77	13	1350	<1	2.39
1193274	<2	<5	<5	0.5	6.72	4	486	1	5	3.34	<0.3	19	6	21	5.33	18	<1	1.30	0.75	14	1070	<1	2.37
1193275	<2	<5	<5	0.5	7.03	10	728	1	<2	4.72	<0.3	27	53	13	6.69	21	<1	1.42	2.08	20	1350	<1	2.42
1193276	<2	<5	<5	0.3	7.00	7	>1000	<1	<2	6.13	<0.3	27	65	1	6.21	20	<1	1.59	2.38	22	1460	<1	1.87
1193277	<2	<5	<5	0.4	7.37	<3	375	1	3	3.63	<0.3	23	7	14	6.53	19	<1	1.77	1.06	16	1870	<1	2.56
1193278	<2	<5	<5	0.4	7.33	5	964	1	5	3.13	<0.3	17	9	13	6.17	19	<1	1.66	0.87	14	1860	<1	2.88
1193279	<2	<5	<5	0.6	6.97	3	632	1	<2	3.44	<0.3	9	9	13	5.58	17	<1	1.51	0.78	14	1840	<1	2.80
1193280	<2	<5	<5	<0.3	0.02	<3	<7	<1	<2	0.11	<0.3	<1	17	<1	0.05	<1	<1	<0.01	<0.01	4	26	<1	<0.01
1193281	<2	<5	<5	0.8	6.36	<3	227	1	<2	5.68	<0.3	14	22	14	7.32	16	<1	1.12	1.11	13	3150	<1	2.29
1193282	<2	<5	<5	0.5	4.68	<3	494	<1	<2	4.52	0.3	25	117	28	4.98	17	<1	1.29	2.05	22	1320	<1	1.78
1193283	<2	<5	<5	0.6	7.01	4	615	<1	<2	4.11	0.8	45	393	84	6.27	18	<1	1.10	2.92	28	1220	2	0.81
1193284	<2	<5	<5	0.5	6.34	12	508	<1	<2	4.61	<0.3	39	356	49	5.72	14	<1	1.43	2.57	20	1270	<1	2.01
1193285	<2	<5	<5	0.9	6.46	8	381	<1	<2	5.46	<0.3	43	283	54	7.88	15	<1	1.53	3.38	21	1480	<1	1.32
1193286	<2	<5	<5	<0.3	1.52	<3	11	<1	<2	1.65	<0.3	89	2280	4	6.91	8	<1	0.04	17.1	3	798	<1	0.09
1193287	<2	<5	<5	<0.3	1.57	<3	21	<1	3	1.93	<0.3	102	1530	3	7.35	7	<1	0.12	17.3	3	854	26	0.09
1193288	<2	<5	<5	<0.3	1.90	<3	76	<1	5	2.38	<0.3	107	1430	9	7.31	5	<1	0.46	17.0	9	1010	85	0.11
1193289	<2	<5	<5	<0.3	1.54	<3	<7	<1	<2	2.09	<0.3	111	1690	4	8.01	6	<1	0.03	17.8	1	1070	<1	0.11
1193290	<2	<5	<5	<0.3	1.59	<3	<7	<1	2	1.90	<0.3	121	1580	<1	8.36	5	<1	0.02	18.3	1	1090	<1	0.10
1193291	<2	<5	<5	<0.3	1.58	<3	<7	<1	11	2.66	<0.3	142	2080	21	8.02	4	<1	0.02	18.2	4	1230	<1	0.09
1193292	<2	<5	<5	<0.3	1.17	<3	<7	<1	<2	2.30	<0.3	108	1770	18	7.10	6	<1	0.01	16.6	1	1090	<1	0.11
1193293	<2	<5	<5	<0.3	1.36	<3	9	<1	17	2.03	<0.3	122	1900	<1	7.24	6	<1	0.03	17.3	1	1080	<1	0.11
1193294	<2	<5	<5	<0.3	1.39	<3	<7	<1	<2	2.04	<0.3	101	2010	<1	7.45	7	2	0.03	18.3	1	1050	<1	0.12
1193295	<2	<5	<5	<0.3	1.32	<3	<7	<1	8	1.77	<0.3	116	1550	5	7.42	3	<1	0.02	18.6	<1	875	<1	0.10
1193296	<2	<5	7	<0.3	1.35	<3	<7	<1	<2	0.92	<0.3	91	1580	<1	6.76	3	<1	0.02	18.9	<1	778	<1	0.06
1193297	<2	<5	<5	<0.3	1.29	<3	<7	<1	6	1.40	<0.3	98	1380	1	7.44	4	<1	0.02	18.7	<1	860	<1	0.10
1193298	<2	<5	<5	<0.3	1.57	<3	30	<1	<2	2.25	<0.3	113	1180	5	7.81	5	<1	0.18	17.7	2	979	<1	0.14
1193299	<2	<5	<5	<0.3	1.51	<3	12	<1	<2	2.23	<0.3	109	1240	5	7.41	7	<1	0.06	17.9	3	1060	<1	0.13
1193300	838	<5	<5	1.5	7.80	93	158	5	3	2.94	1.8	27	64	97	6.06	26	<1	2.10	2.32	3	574	<1	3.27
1193301	<2	<5	<5	1.1	8.67	4	>1000	1	<2	3.34	<0.3	31	227	3	3.79	21	<1	1.60	4.52	74	406	<1	2.83
1193302	<2	<5	<5	<0.3	1.48	<3	11	<1	9	2.66	<0.3	112	1910	12	7.61	5	<1	0.04	17.5	1	1310	<1	0.18
1193303	<2	<5	<5	<0.3	1.47	<3	<7	<1	<2	2.86	<0.3	112	1970	4	7.58	4	<1	0.03	17.7	<1	1270	<1	0.19
1193304	<2	<5	<5	<0.3	1.42	<3	<7	<1	<2	2.79	<0.3	112	1810	1	7.71	4	<1	0.02	18.3	<1	1380	1	0.17



Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193305	<2	<5	<5	<0.3	1.41	<3	<7	<1	6	2.60	<0.3	114	1430	11	7.70	4	<1	0.02	18.2	<1	1300	<1	0.17
1193306	<2	<5	<5	<0.3	1.42	<3	<7	<1	2	2.35	<0.3	116	1350	4	7.81	6	<1	0.02	18.2	<1	1410	<1	0.17
1193307	<2	<5	<5	<0.3	1.23	<3	<7	<1	7	2.61	<0.3	117	1720	5	7.65	4	<1	0.02	18.9	<1	1380	<1	0.15
1193308	2	<5	<5	<0.3	1.24	<3	<7	<1	2	2.83	<0.3	115	1580	60	7.66	3	2	0.02	18.7	<1	1350	<1	0.16

## Results

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193156	18	0.055	4	5	0.41	24	614	13	0.55	<5	<10	312	5	14	102	39
1193157	35	0.096	<3	<5	0.46	29	657	13	0.41	<5	<10	192	<5	19	117	28
1193158	20	0.117	5	<5	0.48	26	794	27	0.70	<5	<10	245	<5	19	112	43
1193159	16	0.112	<3	<5	0.38	25	734	12	0.87	<5	<10	273	<5	19	103	47
1193160	9	<0.001	3	<5	0.06	<4	3	<2	0.03	<5	<10	<2	<5	<1	<1	17
1193161	17	0.092	6	<5	0.29	22	556	22	0.80	<5	<10	268	<5	19	98	55
1193162	12	0.063	8	<5	0.15	13	497	<2	0.49	<5	<10	129	<5	13	69	67
1193163	<1	0.002	20	<5	<0.01	<4	89	<2	0.02	<5	<10	5	<5	2	8	35
1193164	18	0.054	<3	<5	0.20	18	515	13	0.70	9	<10	221	<5	11	101	55
1193165	9	0.025	9	<5	0.03	<4	255	4	0.21	<5	<10	55	<5	2	38	82
1193166	24	0.016	11	<5	0.12	7	333	3	0.15	<5	<10	61	<5	4	29	63
1193167	561	0.017	3	<5	0.09	25	163	21	0.39	<5	<10	170	<5	13	81	51
1193168	704	0.013	<3	<5	0.03	18	157	<2	0.19	<5	<10	111	<5	12	98	79
1193169	53	0.030	3	<5	0.18	12	588	5	0.29	6	<10	118	<5	8	68	66
1193170	85	0.047	<3	<5	0.49	26	545	8	0.43	7	<10	221	<5	15	98	37
1193171	8	0.005	22	<5	0.07	4	119	<2	0.10	<5	10	32	<5	3	13	69
1193172	72	0.038	<3	<5	0.38	25	457	5	0.52	<5	<10	262	<5	12	90	50
1193173	122	0.045	<3	<5	0.46	42	438	4	0.55	<5	<10	288	<5	16	104	47
1193174	125	0.068	4	<5	0.25	24	567	12	0.64	<5	<10	324	<5	13	93	46
1193175	7	0.029	9	<5	0.05	<4	284	3	0.15	<5	<10	34	<5	3	20	122
1193176	169	0.074	4	<5	0.41	22	559	24	0.81	<5	<10	384	<5	14	95	48
1193177	183	0.066	<3	<5	0.89	30	499	12	0.65	5	<10	334	<5	13	106	43
1193178	183	0.059	<3	<5	0.40	18	571	4	0.39	<5	<10	264	<5	11	89	36
1193179	151	0.068	6	<5	0.53	25	496	8	0.33	<5	<10	201	<5	13	105	33
1193180	98	0.096	91	<5	2.33	6	327	5	0.63	<5	<10	85	5	8	175	83
1193181	82	0.082	<3	<5	0.23	28	592	19	0.23	<5	<10	169	<5	20	101	42
1193182	64	0.063	<3	<5	0.16	30	540	<2	0.25	<5	<10	128	<5	20	86	50
1193183	10	0.027	5	<5	<0.01	<4	275	<2	0.17	<5	<10	34	<5	4	19	68
1193184	64	0.063	10	<5	0.12	15	525	12	0.40	<5	<10	146	<5	12	80	87
1193185	85	0.071	12	<5	0.09	16	680	9	0.40	<5	10	146	<5	23	62	101
1193186	174	0.076	5	<5	0.38	25	636	7	0.37	<5	<10	273	<5	15	109	30
1193187	185	0.040	6	<5	0.57	18	565	7	0.56	<5	<10	244	<5	11	85	41
1193188	110	0.050	<3	<5	0.37	29	639	12	0.33	<5	<10	143	<5	18	86	35
1193189	66	0.072	<3	<5	0.19	18	614	<2	0.43	<5	<10	167	<5	11	74	92
1193190	58	0.029	14	<5	0.16	10	287	<2	0.20	<5	<10	90	<5	6	37	29
1193191	1	0.003	27	<5	0.06	<4	101	3	0.03	<5	<10	6	<5	3	9	44
1193192	108	0.066	<3	<5	0.29	22	622	15	0.54	<5	<10	235	<5	13	85	44
1193193	145	0.068	4	<5	0.22	25	716	20	0.58	<5	<10	221	<5	13	80	49
1193194	137	0.045	<3	<5	0.45	19	613	7	0.29	<5	<10	118	<5	11	68	27
1193195	149	0.060	6	<5	0.56	21	663	9	0.73	<5	<10	315	<5	13	89	64
1193196	31	0.017	4	<5	0.33	7	528	5	0.23	<5	<10	78	<5	7	28	51
1193197	55	0.046	5	<5	0.13	17	457	15	0.30	<5	<10	128	<5	11	65	67
1193198	14	0.095	7	<5	0.11	5	393	5	0.25	<5	<10	33	<5	7	31	70
1193199	111	0.080	<3	<5	0.13	25	703	<2	0.25	5	<10	102	<5	13	79	45
1193200	10	<0.001	<3	<5	0.06	<4	3	<2	0.03	<5	<10	<2	<5	<1	<1	17
1193201	101	0.057	<3	<5	0.11	27	465	8	0.42	<5	<10	151	<5	15	72	53
1193202	107	0.062	<3	<5	0.10	33	495	5	0.46	<5	<10	149	<5	18	74	51
1193203	65	0.106	5	<5	0.11	23	572	5	0.37	<5	<10	130	<5	15	77	32
1193204	70	0.067	4	<5	0.19	6	462	21	0.79	<5	<10	316	<5	6	94	46

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193205	58	0.033	13	<5	0.04	16	483	14	0.30	<5	<10	77	<5	12	67	76
1193206	35	0.033	8	<5	0.04	9	376	7	0.22	<5	<10	56	<5	7	51	83
1193207	42	0.036	8	<5	0.04	10	368	8	0.20	<5	<10	51	<5	7	54	86
1193208	58	0.047	10	<5	0.06	15	452	11	0.25	7	<10	75	5	10	61	69
1193209	48	0.050	17	<5	0.07	13	431	15	0.26	<5	<10	81	<5	9	63	73
1193210	58	0.115	3	<5	0.10	16	660	10	0.40	<5	<10	103	<5	19	83	70
1193211	46	0.185	<3	<5	0.10	18	715	21	0.63	<5	<10	151	<5	20	90	72
1193212	59	0.107	<3	<5	0.10	16	617	9	0.57	<5	<10	136	<5	16	81	85
1193213	40	0.111	<3	<5	0.20	16	657	14	0.54	<5	<10	211	<5	17	108	41
1193214	23	0.090	6	<5	0.12	6	533	7	0.61	<5	<10	206	<5	9	87	84
1193215	51	0.113	<3	<5	0.18	14	660	26	0.65	<5	<10	217	<5	15	94	94
1193216	12	0.058	6	<5	0.05	7	467	6	0.33	<5	<10	82	<5	12	50	97
1193217	40	0.132	4	<5	0.19	21	646	2	0.38	<5	<10	194	<5	25	112	50
1193218	44	0.128	6	<5	0.15	20	605	11	0.21	<5	<10	121	<5	24	111	40
1193219	40	0.143	<3	<5	0.15	19	658	9	0.24	<5	<10	117	<5	16	122	37
1193220	96	0.093	94	<5	2.33	6	323	5	0.60	<5	<10	83	<5	8	160	81
1193221	21	0.225	<3	<5	0.16	16	641	19	0.45	<5	<10	152	<5	19	125	55
1193222	23	0.114	6	<5	0.09	14	530	<2	0.18	<5	<10	67	<5	15	94	60
1193223	21	0.134	14	<5	0.11	15	530	<2	0.21	<5	<10	81	<5	16	129	63
1193224	17	0.171	13	<5	0.10	7	398	20	0.65	<5	<10	150	<5	8	101	112
1193225	6	0.272	10	<5	0.12	18	393	13	0.60	<5	<10	139	<5	14	132	150
1193226	12	0.074	6	<5	0.07	8	362	15	0.42	<5	<10	24	7	12	96	645
1193227	109	0.009	4	<5	0.02	41	60	<2	0.18	<5	<10	227	<5	13	79	31
1193228	152	0.044	6	<5	0.12	15	99	<2	0.38	<5	<10	106	<5	12	58	163
1193229	95	0.102	<3	<5	0.01	18	348	3	0.29	<5	<10	93	<5	18	61	90
1193230	95	0.088	3	<5	0.04	16	480	<2	0.20	<5	<10	66	<5	14	65	112
1193231	123	0.106	3	<5	0.14	20	402	3	0.31	<5	<10	101	<5	20	71	142
1193232	156	0.127	<3	<5	0.03	24	312	12	0.30	<5	<10	97	<5	25	76	80
1193233	157	0.123	<3	<5	0.05	23	438	22	0.52	<5	<10	155	<5	20	90	120
1193234	127	0.124	4	<5	0.09	25	450	16	0.57	<5	<10	171	<5	20	90	113
1193235	106	0.093	<3	<5	0.05	19	313	13	0.36	<5	<10	122	<5	18	72	88
1193236	82	0.077	4	<5	0.03	15	334	14	0.32	<5	<10	95	<5	16	58	105
1193237	120	0.113	<3	<5	0.04	23	449	15	0.29	<5	<10	116	<5	19	76	64
1193238	186	0.115	3	<5	0.05	23	428	<2	0.19	<5	<10	81	<5	19	70	59
1193239	190	0.117	<3	<5	<0.01	25	449	15	0.34	9	<10	100	<5	20	76	77
1193240	9	<0.001	<3	<5	0.07	<4	3	<2	0.03	<5	<10	3	<5	<1	<1	15
1193241	137	0.119	<3	<5	0.07	24	446	<2	0.55	<5	<10	169	<5	19	82	96
1193242	153	0.131	<3	<5	0.08	26	483	14	0.53	<5	<10	160	<5	20	62	93
1193243	194	0.161	<3	<5	0.80	11	403	5	0.60	<5	<10	195	<5	14	70	102
1193244	157	0.161	<3	<5	1.43	22	337	5	0.56	<5	<10	176	6	25	86	126
1193245	87	0.130	<3	<5	0.01	18	433	10	0.41	<5	<10	130	<5	13	78	112
1193246	113	0.115	6	<5	0.07	21	330	18	0.40	<5	<10	133	<5	22	67	80
1193247	154	0.122	<3	<5	0.49	18	453	5	0.44	<5	<10	135	11	14	115	112
1193248	85	0.143	8	<5	0.15	19	535	11	0.39	<5	<10	127	<5	14	100	108
1193249	90	0.131	<3	<5	0.13	17	580	8	0.39	<5	<10	119	<5	12	86	98
1193250	117	0.163	6	<5	0.11	19	462	13	0.42	<5	<10	134	<5	15	87	104
1193251	<1	0.002	28	<5	0.05	<4	28	<2	0.03	<5	<10	3	<5	3	11	57
1193252	79	0.147	6	<5	0.31	15	481	9	0.41	<5	<10	113	<5	14	70	117
1193253	5	0.037	11	<5	<0.01	<4	301	5	0.20	<5	<10	30	<5	7	45	140
1193254	12	0.099	6	<5	0.06	8	515	6	0.43	<5	<10	62	<5	16	79	332

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193255	4	0.129	<3	<5	0.04	14	175	8	0.42	<5	<10	17	<5	29	71	159
1193256	2	0.136	4	<5	0.02	14	224	13	0.31	<5	<10	13	<5	30	93	155
1193257	<1	0.135	<3	<5	0.05	15	180	<2	0.29	<5	<10	14	<5	29	87	145
1193258	<1	0.134	<3	<5	0.05	15	242	12	0.27	<5	<10	13	<5	30	93	146
1193259	28	0.086	4	<5	0.04	11	359	3	0.20	<5	<10	52	<5	17	86	142
1193260	96	0.095	89	<5	2.39	6	329	11	0.62	<5	<10	82	<5	8	163	81
1193261	2	0.132	6	<5	<0.01	15	213	6	0.18	<5	<10	7	<5	31	100	115
1193262	4	0.127	10	<5	0.04	16	220	<2	0.17	<5	<10	9	<5	31	106	110
1193263	<1	0.129	7	<5	0.02	7	199	10	0.61	<5	<10	25	<5	18	97	172
1193264	2	0.130	3	<5	0.18	15	306	6	0.47	<5	<10	21	6	30	99	175
1193265	4	0.124	<3	<5	<0.01	15	175	12	0.32	<5	<10	14	<5	28	90	136
1193266	3	0.120	<3	<5	0.26	15	208	12	0.43	<5	<10	20	<5	30	88	157
1193267	2	0.122	7	<5	0.08	15	194	3	0.23	<5	<10	13	<5	29	99	130
1193268	3	0.130	8	<5	0.17	16	205	7	0.25	<5	<10	16	<5	30	99	128
1193269	4	0.126	6	<5	0.05	16	211	3	0.16	<5	<10	8	<5	31	102	102
1193270	7	0.122	13	<5	0.14	14	226	12	0.22	<5	<10	11	<5	30	111	113
1193271	16	0.131	7	<5	0.02	16	199	6	0.17	<5	<10	8	<5	32	106	123
1193272	9	0.122	5	<5	0.05	15	191	5	0.23	<5	<10	13	<5	28	109	121
1193273	7	0.130	7	<5	0.04	15	243	13	0.32	<5	<10	16	<5	28	95	148
1193274	16	0.125	10	<5	0.01	14	256	7	0.28	<5	<10	12	<5	27	93	136
1193275	52	0.116	4	<5	0.06	19	299	14	0.21	<5	<10	57	<5	25	117	105
1193276	69	0.096	<3	<5	<0.01	19	296	12	0.13	<5	<10	50	<5	19	117	74
1193277	14	0.132	4	<5	0.04	15	224	19	0.15	<5	<10	8	<5	31	98	90
1193278	7	0.133	7	<5	0.05	15	219	8	0.18	<5	<10	8	<5	32	94	127
1193279	6	0.126	6	<5	0.04	14	185	15	0.18	<5	<10	8	<5	29	83	128
1193280	9	<0.001	<3	<5	0.06	<4	3	<2	0.03	<5	<10	<2	<5	<1	<1	15
1193281	7	0.112	7	<5	0.15	14	183	<2	0.46	<5	<10	16	<5	32	104	181
1193282	57	0.078	8	<5	0.02	9	198	<2	0.42	<5	<10	83	<5	14	92	131
1193283	135	0.059	8	8	0.13	23	235	7	0.45	<5	<10	155	<5	12	120	103
1193284	140	0.059	50	<5	0.71	18	241	16	0.46	<5	<10	148	<5	13	135	93
1193285	154	0.053	170	<5	0.59	22	248	6	0.40	<5	<10	142	<5	14	278	89
1193286	1490	0.008	13	<5	0.06	15	10	21	0.14	<5	<10	81	5	4	45	13
1193287	1540	0.006	39	<5	0.09	16	7	6	0.12	<5	<10	80	<5	4	40	10
1193288	1450	0.007	42	<5	0.09	15	9	11	0.13	<5	<10	78	<5	5	81	13
1193289	1760	0.006	66	<5	0.04	16	6	15	0.13	<5	<10	86	<5	4	51	11
1193290	1810	0.008	77	<5	0.04	17	6	29	0.14	<5	<10	91	<5	4	46	11
1193291	1840	0.007	111	<5	0.05	17	5	5	0.14	<5	<10	89	<5	4	72	12
1193292	1710	0.005	79	<5	0.06	13	6	6	0.12	<5	<10	73	5	3	125	10
1193293	1760	0.006	90	<5	0.05	14	6	<2	0.12	<5	<10	74	<5	3	48	10
1193294	1850	0.006	70	<5	0.05	15	5	8	0.13	<5	<10	79	<5	4	51	10
1193295	1840	0.005	32	<5	0.10	15	5	3	0.11	<5	<10	72	6	3	153	9
1193296	1800	0.005	9	<5	0.13	14	4	<2	0.10	<5	<10	67	<5	3	20	8
1193297	1910	0.006	29	<5	0.14	14	6	6	0.10	<5	<10	70	<5	3	105	9
1193298	1830	0.007	21	<5	0.10	14	5	9	0.11	<5	<10	71	<5	4	99	12
1193299	1840	0.006	20	<5	0.13	15	8	<2	0.11	<5	<10	72	<5	4	89	10
1193300	98	0.101	94	<5	2.52	7	332	3	0.65	6	<10	87	<5	8	166	86
1193301	266	0.058	4	<5	0.01	6	583	<2	0.36	<5	<10	59	<5	6	40	294
1193302	1760	0.007	30	<5	0.08	15	7	7	0.13	<5	<10	78	5	4	113	11
1193303	1800	0.006	16	<5	0.06	15	5	8	0.12	<5	<10	79	<5	4	64	11
1193304	1850	0.006	8	<5	0.06	16	5	8	0.12	<5	<10	77	<5	3	58	10

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193305	1840	0.006	11	< 5	0.08	15	5	24	0.12	< 5	< 10	80	< 5	3	53	10
1193306	1890	0.006	16	< 5	0.08	14	5	19	0.12	< 5	< 10	82	< 5	4	56	13
1193307	1910	0.005	< 3	< 5	0.10	15	4	10	0.10	< 5	< 10	70	< 5	3	67	8
1193308	1890	0.005	< 3	< 5	0.09	15	4	10	0.11	< 5	< 10	73	< 5	3	56	9

QC

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas				31.5	1.97	450	701	1	1390	0.89	3.3	10	9	1170	24.4	10	7	0.04	0.21	7	881	15	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-1 Meas				31.9	2.04	428	700	1	1400	0.91	2.2	10	14	1220	24.4	10	9	0.05	0.22	8	917	16	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-1 Meas				31.2	2.19	408	684	1	1360	0.88	2.5	10	25	1190	24.0	13	5	0.04	0.21	7	978	17	0.05
GXR-1 Cert				31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520
GXR-4 Meas				3.2	6.12	98	210	2	< 2	1.05	< 0.3	16	40	6400	3.00	19	< 1	2.22	1.69	11	162	313	0.53
GXR-4 Cert				4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564
GXR-4 Meas				3.2	6.14	93	246	2	< 2	1.04	0.6	16	41	6390	2.94	19	< 1	2.53	1.66	12	163	309	0.52
GXR-4 Cert				4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564
SDC-1 Meas					7.08	< 3	630	3		1.07		20	50	28	4.75	20	< 1	1.78	0.98	34	892		1.48
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
SDC-1 Meas					7.30	< 3	630	3		1.08		19	44	30	4.66	21	< 1	1.50	0.99	33	883		1.46
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
SDC-1 Meas					6.65	5	579	3		0.99		19	62	34	4.50	19	< 1	1.32	0.97	32	880		1.44
SDC-1 Cert					8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52
GXR-6 Meas				0.6	8.85	310	> 1000	1	< 2	0.17	0.7	13	82	65	4.95	29	< 1	0.87	0.49	34	1010	3	0.10
GXR-6 Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104
GXR-6 Meas				0.8	11.8	279	> 1000	1	2	0.19	0.3	14	80	75	5.24	30	< 1	1.14	0.61	33	1070	2	0.10
GXR-6 Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104
GXR-6 Meas				0.4	12.1	216	> 1000	1	< 2	0.19	< 0.3	15	44	69	5.32	31	< 1	1.44	0.60	34	1030	4	0.10
GXR-6 Cert				1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104
OREAS 14P Meas												664		8990	31.6								
OREAS 14P Cert												750		9970	37.2								
OREAS 14P Meas												681		9320	32.1								
OREAS 14P Cert												750		9970	37.2								
OREAS 14P Meas												664		9010	31.2								
OREAS 14P Cert												750		9970	37.2								
Oreas 72a (4 Acid Digest) Meas						4						151	209	313	9.48								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
Oreas 72a (4 Acid Digest) Meas						6						168	174	339	9.60								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
Oreas 72a (4 Acid Digest) Meas						< 3						153	216	306	9.04								
Oreas 72a (4 Acid Digest) Cert						14.7						157	228	316	9.63								
SAR-M (U.S.G.S.) Meas				3.5	4.78	34	758	3	< 2	0.54	4.9	13	83	340	3.07	15		1.83	0.47	29	5150	12	1.22
SAR-M (U.S.G.S.) Cert				3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7	331.0000	2.99	17		2.94	0.50	27.4	5220	13.1	1.140
SAR-M (U.S.G.S.) Meas				3.6	5.58	34	808	3	< 2	0.62	5.0	12	68	331	3.15	13		2.02	0.48	28	5260	13	1.19
SAR-M (U.S.G.S.) Cert				3.64	6.30	38.8	801	2.20	1.94	0.61	5.27	10.70	79.7	331.0000	2.99	17		2.94	0.50	27.4	5220	13.1	1.140
DNC-1a Meas							103					55	288	94		18				4			
DNC-1a Cert							118					57.0	270	100.00		15				5.20			
DNC-1a Meas							101					56	153	116		16				4			

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
DNC-1a Cert							118					57.0	270	100.00		15				5.20			
DNC-1a Meas							101					57	190	94		12				4			
DNC-1a Cert							118					57.0	270	100.00		15				5.20			
OREAS 13b (4-Acid) Meas				1.1		54						74	8790	2280								8	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.000	2327.000								9.0	
OREAS 13b (4-Acid) Meas				1.0		38						76	8580	2330								8	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.000	2327.000								9.0	
OREAS 13b (4-Acid) Meas				0.9		38						77	8560	2370								8	
OREAS 13b (4-Acid) Cert				0.86		57						75	8650.000	2327.000								9.0	
PK2 Meas	4560	5610	4530																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	4770	5790	4410																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	4970	6100	4750																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	4760	5750	4670																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	5110	6230	4860																				
PK2 Cert	4785.000	5918.000	4749.000																				
PK2 Meas	5040	6130	4760																				
PK2 Cert	4785.000	5918.000	4749.000																				
SBC-1 Meas						37	726	4	< 2		0.7	24	100	30		26				160		3	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
SBC-1 Meas						21	721	3	< 2		< 0.3	25	70	30		25				155		2	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
SBC-1 Meas						8	757	3	< 2		< 0.3	24	58	30		25				155		2	
SBC-1 Cert						25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40	
CDN-PGMS-25 Meas	460	1800	404																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	473	1800	370																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	448	1790	378																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	505	1900	392																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25 Meas	461	1780	374																				
CDN-PGMS-25 Cert	483	1830	400																				
CDN-PGMS-25	448	1890	401																				

Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
CDN-PGMS-25 Cert	483	1830	400																				
1193166 Orig	< 2	< 5	< 5																				
1193166 Dup	< 2	< 5	< 5																				
1193168 Orig				0.4	4.64	< 3	522	< 1	< 2	4.54	0.8	65	751	25	6.99	14	< 1	1.50	7.05	59	1180	< 1	1.02
1193168 Dup				0.3	4.57	< 3	522	< 1	13	4.60	0.7	68	751	23	7.01	18	1	1.49	7.08	59	1200	< 1	1.02
1193176 Orig	< 2	< 5	< 5																				
1193176 Dup	3	< 5	< 5																				
1193182 Orig				< 0.3	7.53	< 3	357	< 1	< 2	6.72	< 0.3	43	63	75	7.50	17	< 1	1.42	3.10	27	936	< 1	1.92
1193182 Dup				< 0.3	7.48	4	358	< 1	< 2	6.79	< 0.3	43	71	73	7.55	18	1	1.36	3.12	27	936	< 1	1.95
1193185 Orig	< 2	< 5	< 5	0.6	8.01	3	323	1	< 2	5.66	0.3	27	31	21	5.50	20	< 1	1.23	1.74	26	750	< 1	4.06
1193185 Split	< 2	< 5	< 5	0.5	8.12	< 3	316	1	< 2	5.60	< 0.3	29	28	28	5.43	21	< 1	1.13	1.72	25	746	< 1	3.98
1193187 Orig	< 2	< 5	< 5																				
1193187 Dup	< 2	< 5	< 5																				
1193199 Orig	< 2	< 5	< 5																				
1193199 Dup	< 2	< 5	< 5																				
1193205 Orig	< 2	< 5	< 5	0.4	6.97	5	513	< 1	< 2	5.13	< 0.3	23	107	30	4.19	16	1	1.20	2.71	21	796	< 1	2.15
1193205 Split	< 2	< 5	< 5	0.3	7.92	< 3	529	< 1	< 2	5.34	< 0.3	27	113	34	4.44	16	1	1.22	2.89	23	819	< 1	2.28
1193207 Orig				0.4	7.45	< 3	> 1000	< 1	< 2	3.86	< 0.3	18	54	22	3.04	15	< 1	1.51	1.87	24	567	< 1	2.26
1193207 Dup				0.3	7.30	7	> 1000	< 1	< 2	3.77	< 0.3	16	58	22	2.99	15	< 1	1.58	1.83	23	574	< 1	2.21
1193210 Orig	< 2	< 5	< 5																				
1193210 Dup	< 2	< 5	< 5																				
1193215 Orig	< 2	< 5	< 5	0.6	6.52	< 3	862	< 1	2	5.55	0.3	36	74	80	7.29	20	< 1	1.30	2.54	31	1020	< 1	2.36
1193215 Split	< 2	< 5	< 5	0.5	4.80	< 3	828	< 1	4	5.24	< 0.3	35	67	76	7.05	20	< 1	1.21	2.23	29	1030	1	2.30
1193221 Orig	4	< 5	< 5	< 0.3	8.01	< 3	> 1000	< 1	< 2	5.47	< 0.3	35	12	66	8.51	21	< 1	1.94	2.29	31	1180	1	2.71
1193221 Dup	< 2	< 5	< 5	0.3	7.99	< 3	> 1000	< 1	4	5.47	< 0.3	37	10	133	8.45	18	< 1	2.05	2.28	31	1180	1	2.67
1193233 Orig	< 2	< 5	< 5																				
1193233 Dup	< 2	< 5	< 5																				
1193243 Orig	< 2	< 5	< 5																				
1193243 Dup	< 2	< 5	5																				
1193245 Orig	< 2	< 5	< 5	0.5	6.89	< 3	471	< 1	< 2	5.94	< 0.3	27	183	3	5.50	19	< 1	0.77	1.62	13	2340	< 1	2.85
1193245 Split	< 2	< 5	< 5	1.0	6.97	< 3	472	< 1	< 2	5.90	< 0.3	26	191	4	5.54	17	< 1	0.77	1.63	12	2370	< 1	2.86
1193246 Orig				< 0.3	7.19	< 3	252	2	< 2	12.5	0.3	31	155	16	5.43	14	< 1	0.38	0.81	4	2900	< 1	2.05
1193246 Dup				0.5	6.94	3	250	2	< 2	12.5	2.4	29	113	13	5.35	15	< 1	0.39	0.80	5	2850	< 1	1.99
1193254 Orig	< 2	< 5	< 5																				
1193254 Dup	< 2	< 5	< 5																				
1193255 Orig	< 2	< 5	< 5	0.6	6.42	< 3	401	1	2	3.44	< 0.3	12	9	16	6.17	16	< 1	1.58	0.90	14	1910	< 1	2.42
1193255 Split	< 2	< 5	< 5	0.5	6.45	< 3	366	1	< 2	3.44	0.4	11	8	24	6.00	15	< 1	1.23	0.88	13	1920	< 1	2.45
1193260 Orig				1.4	6.92	84	153	4	3	2.86	2.2	26	62	96	5.80	23	< 1	2.86	2.18	3	586	< 1	3.24
1193260 Dup				1.5	6.82	87	159	5	3	2.95	2.6	28	68	106	5.99	24	1	2.87	2.23	3	585	2	3.33
1193266 Orig	< 2	< 5	< 5																				
1193266 Dup	< 2	< 5	< 5																				
1193275 Orig	< 2	< 5	< 5	0.5	7.03	10	728	1	< 2	4.72	< 0.3	27	53	13	6.69	21	< 1	1.42	2.08	20	1350	< 1	2.42
1193275 Split	< 2	< 5	< 5	0.5	6.99	11	727	1	< 2	4.67	< 0.3	27	56	13	6.66	18	< 1	1.45	2.07	20	1340	< 1	2.40
1193276 Orig	< 2	< 5	< 5																				
1193276 Dup	< 2	< 5	< 5																				
1193285 Orig				1.1	6.48	9	382	< 1	< 2	5.48	0.6	45	305	55	7.91	15	< 1	1.53	3.38	20	1480	< 1	1.32
1193285 Dup				0.7	6.44	6	380	< 1	< 2	5.45	< 0.3	42	260	53	7.86	16	< 1	1.53	3.38	21	1470	< 1	1.32
1193287 Orig	< 2	< 5	< 5																				
1193287 Dup	< 2	< 5	< 5																				



Analyte Symbol	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01
Method Code	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193299 Orig	<2	<5	<5	<0.3	1.49	<3	12	<1	<2	2.23	<0.3	111	1110	6	7.39	7	<1	0.06	17.9	3	1060	<1	0.13
1193299 Dup	<2	<5	<5	<0.3	1.52	3	11	<1	<2	2.22	<0.3	107	1370	4	7.42	7	<1	0.06	17.9	3	1060	<1	0.13
1193305 Orig	<2	<5	<5	<0.3	1.41	<3	<7	<1	6	2.60	<0.3	114	1430	11	7.70	4	<1	0.02	18.2	<1	1300	<1	0.17
1193305 Split	<2	<5	5	<0.3	1.38	<3	<7	<1	<2	2.53	<0.3	111	1530	10	7.44	6	<1	0.02	17.7	<1	1270	<1	0.16
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		2	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank	<2	<5	<5																				
Method Blank				<0.3	<0.01	<3	<7	<1	<2	<0.01	<0.3	<1		<1	<0.01	<1	<1	<0.01	<0.01	<1		<1	<0.01
Method Blank	<2	<5	<5																				

QC

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	46	0.060	732	24	0.25	<4	300	19	0.03	<5	30	87	156	31	754	28
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	48	0.061	748	9	0.26	<4	296	14	0.03	30	40	88	158	29	761	28
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	49	0.059	731	24	0.25	<4	287	10	0.03	<5	40	85	158	29	743	27
GXR-1 Cert	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	45	0.129	46	5	1.76	8	215	12	0.29	<5	<10	86	37	13	68	44
GXR-4 Cert	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas	45	0.127	57	<5	1.74	8	213	8	0.28	<5	<10	85	35	13	68	42
GXR-4 Cert	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	37	0.057	21	<5		16	175		0.25	<5	<10	60	<5		99	46
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	37	0.055	20	<5		17	173		0.17	<5	<10	48	<5		99	39
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	37	0.055	16	<5		15	163		0.32	<5	<10	66	<5		101	50
SDC-1 Cert	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	27	0.029	86	<5	0.02	22	37	<2		<5	<10	185	<5	10	120	95
GXR-6 Cert	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110
GXR-6 Meas	27	0.035	85	<5	0.02	27	43	<2		<5	<10	165	<5	12	119	92
GXR-6 Cert	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110
GXR-6 Meas	26	0.032	83	<5	0.01	27	41	<2		8	<10	114	<5	12	124	68
GXR-6 Cert	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110
OREAS 14P Meas	> 10000															
OREAS 14P Cert	21000															
OREAS 14P Meas	> 10000															

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 14P Cert	21000															
OREAS 14P Meas	> 10000															
OREAS 14P Cert	21000															
Oreas 72a (4 Acid Digest) Meas	6520				1.60											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
Oreas 72a (4 Acid Digest) Meas	7010				1.68											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
Oreas 72a (4 Acid Digest) Meas	6440				1.54											
Oreas 72a (4 Acid Digest) Cert	6930.000				1.74											
SAR-M (U.S.G.S.) Meas	44	0.065	980	< 5		8	139	5	0.38	< 5	< 10	67	20	32	931	
SAR-M (U.S.G.S.) Cert	41.5	0.07	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
SAR-M (U.S.G.S.) Meas	46	0.067	992	< 5		9	152	3	0.40	< 5	< 10	68	23	34	947	
SAR-M (U.S.G.S.) Cert	41.5	0.07	982	6.0		7.83	151	0.96	0.38	2.7	3.57	67.2	9.78	28.00	930.0	
DNC-1a Meas	256		< 3	< 5		32	136		0.28			141		16	61	35
DNC-1a Cert	247		6.3	0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
DNC-1a Meas	259		< 3	< 5		31	129		0.28			141		15	57	35
DNC-1a Cert	247		6.3	0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
DNC-1a Meas	259		< 3	< 5		32	129		0.28			142		15	58	35
DNC-1a Cert	247		6.3	0.96		31	144.0		0.29			148.00		18.0	70.0	38.000
OREAS 13b (4-Acid) Meas	2230				1.17										108	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
OREAS 13b (4-Acid) Meas	2230				1.11										105	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
OREAS 13b (4-Acid) Meas	2290				1.12										112	
OREAS 13b (4-Acid) Cert	2247.0000				1.2										133	
PK2 Meas																
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PK2 Meas																

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
PK2 Cert																
SBC-1 Meas	89		26	5		16	164		0.50	< 5	< 10	216	< 5	29	176	116
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	88		23	< 5		21	178		0.48	< 5	< 10	214	< 5	31	176	112
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	86		27	< 5		21	173		0.41	< 5	< 10	206	7	30	178	102
SBC-1 Cert	82.8		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
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CDN-PGMS-25 Cert																
CDN-PGMS-25 Meas																
CDN-PGMS-25 Cert																
1193166 Orig																
1193166 Dup																
1193168 Orig	703	0.012	< 3	< 5	0.03	18	155	< 2	0.18	9	< 10	110	< 5	12	98	87
1193168 Dup	705	0.013	4	< 5	0.03	18	158	8	0.20	< 5	< 10	112	< 5	12	98	70
1193176 Orig																
1193176 Dup																
1193182 Orig	62	0.063	< 3	< 5	0.16	29	542	< 2	0.23	< 5	< 10	120	< 5	20	86	45
1193182 Dup	66	0.063	7	< 5	0.16	30	538	3	0.28	< 5	< 10	136	< 5	20	85	55
1193185 Orig	85	0.071	12	< 5	0.09	16	680	9	0.40	< 5	10	146	< 5	23	62	101
1193185 Split	90	0.069	13	< 5	0.09	16	678	14	0.35	< 5	10	136	< 5	23	63	99
1193187 Orig																
1193187 Dup																
1193199 Orig																
1193199 Dup																
1193205 Orig	58	0.033	13	< 5	0.04	16	483	14	0.30	< 5	< 10	77	< 5	12	67	76
1193205 Split	67	0.034	7	< 5	0.04	18	511	4	0.31	< 5	< 10	80	8	14	69	82
1193207 Orig	41	0.036	8	< 5	0.04	10	370	10	0.20	< 5	< 10	51	< 5	7	55	84
1193207 Dup	42	0.036	8	< 5	0.04	10	365	7	0.20	< 5	< 10	50	< 5	7	53	88
1193210 Orig																
1193210 Dup																
1193215 Orig	51	0.113	< 3	< 5	0.18	14	660	26	0.65	< 5	< 10	217	< 5	15	94	94
1193215 Split	50	0.111	5	< 5	0.18	7	619	15	0.63	< 5	< 10	213	< 5	11	94	94
1193221 Orig	21	0.225	3	< 5	0.16	16	634	12	0.41	< 5	< 10	144	5	19	121	52
1193221 Dup	20	0.224	< 3	< 5	0.16	16	648	26	0.48	< 5	< 10	160	< 5	19	129	57
1193233 Orig																

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1193233 Dup																
1193243 Orig																
1193243 Dup																
1193245 Orig	87	0.130	< 3	< 5	0.01	18	433	10	0.41	< 5	< 10	130	< 5	13	78	112
1193245 Split	85	0.134	< 3	< 5	0.02	19	432	13	0.45	< 5	< 10	137	< 5	13	77	120
1193246 Orig	113	0.118	6	< 5	0.07	21	333	23	0.47	< 5	< 10	146	< 5	22	66	88
1193246 Dup	113	0.112	6	< 5	0.07	21	328	13	0.34	< 5	< 10	119	< 5	21	67	72
1193254 Orig																
1193254 Dup																
1193255 Orig	4	0.129	< 3	< 5	0.04	14	175	8	0.42	< 5	< 10	17	< 5	29	71	159
1193255 Split	3	0.127	< 3	< 5	0.03	14	175	9	0.37	< 5	< 10	15	< 5	29	68	149
1193260 Orig	95	0.093	91	< 5	2.36	6	325	11	0.60	< 5	< 10	79	< 5	7	160	79
1193260 Dup	96	0.097	86	< 5	2.42	6	334	11	0.63	< 5	< 10	86	< 5	8	167	82
1193266 Orig																
1193266 Dup																
1193275 Orig	52	0.116	4	< 5	0.06	19	299	14	0.21	< 5	< 10	57	< 5	25	117	105
1193275 Split	51	0.116	5	< 5	0.06	19	296	13	0.20	< 5	< 10	53	< 5	25	117	107
1193276 Orig																
1193276 Dup																
1193285 Orig	156	0.054	173	< 5	0.61	21	248	8	0.43	< 5	< 10	148	< 5	14	276	92
1193285 Dup	153	0.052	166	< 5	0.58	22	248	5	0.37	< 5	< 10	137	< 5	13	280	85
1193287 Orig																
1193287 Dup																
1193299 Orig	1840	0.006	16	< 5	0.13	15	8	< 2	0.11	< 5	< 10	71	< 5	4	87	10
1193299 Dup	1840	0.006	24	< 5	0.13	15	8	10	0.11	< 5	< 10	72	< 5	4	91	10
1193305 Orig	1840	0.006	11	< 5	0.08	15	5	24	0.12	< 5	< 10	80	< 5	3	53	10
1193305 Split	1800	0.006	6	< 5	0.08	14	5	< 2	0.12	< 5	< 10	78	< 5	3	49	9
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	3	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
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Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank																