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N.T.S. 032D04

**REPORT ON ROCK SAMPLING
McVITTIE PROPERTY
McVITTIE TOWNSHIP, ONTARIO
LARDER LAKE MINING DIVISION**

**Written by: Robert J. Dillman
8901 Reily Drive
Mount Brydges, Ontario**

November 25, 2019

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Summary

This report summarizes the results of prospecting and rock sampling on the McVittie Property in McVittie Township, Ontario. Work was completed on June 17, 2019 by property owners: Robert Dillman, Dr. Jim Renaud and James M. Chard. A total of 1.3 km was traversed on the property and 10 rock samples were collected. The work was conducted as a follow-up to rock sampling and petrologic work completed by the property owners in 2015 which identified traces of nickel sulphides in epidote-calcite bearing metavolcanic breccia flow rocks. Best assays from this program are considered only slightly anomalous and ranged 134 ppm nickel, 162 ppm copper and 215 ppm vanadium

Location, Property Ownership, Access

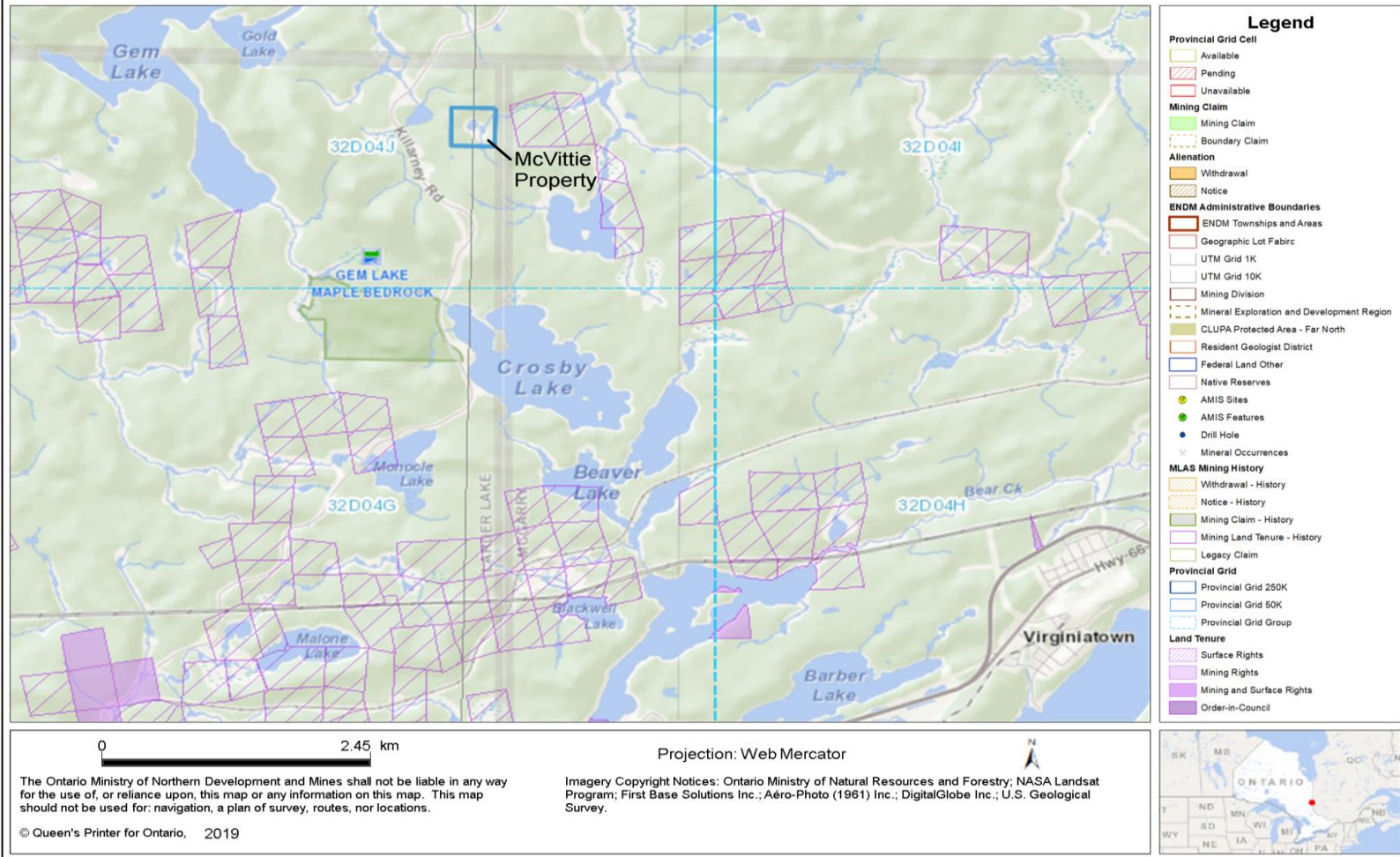
The McVittie Property is located in McVittie Township in the Larder Lake Mining Division in northeast Ontario (Figure 1).

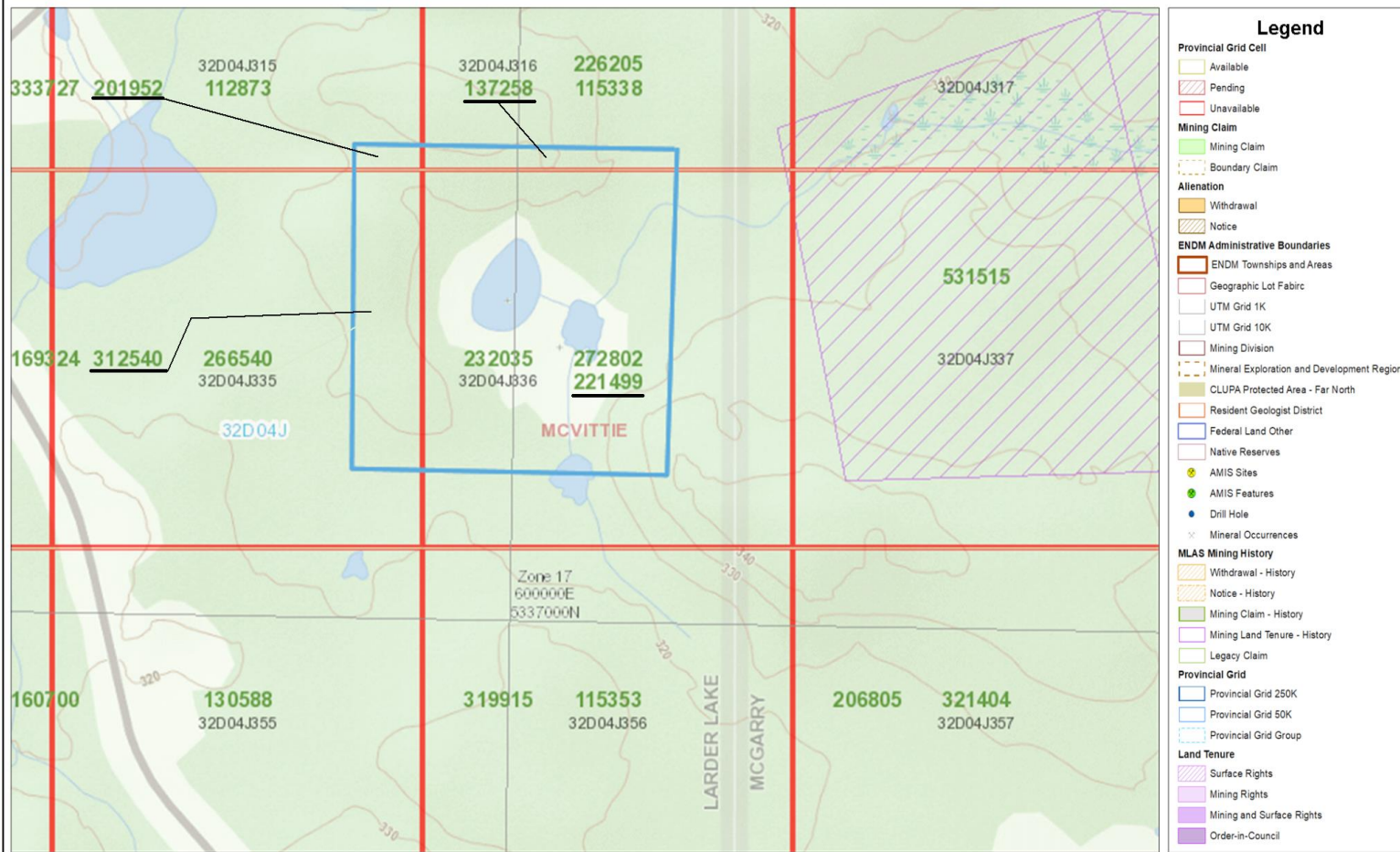
The property is situated 10 kilometres northeast of the town of Larder Lake located on provincial highway 66. From Larder Lake, the property can be reached by travelling east on Highway 66 for a distance of 1.2 km to the intersection of the Larder Station Road. Travelling north for a distance of 9.5 km, the property is located 450 metres east of the Larder Station Road.

The property consists of 4 boundary cells covering a total area of 15.3 hectares (Figure 2).

The logistics of the McVittie Property is summarized in Table 1. Titles to mining cells are equally held by:

Robert J. Dillman of Mount Brydges, Ontario,
Jim Renaud of London, Ontario, and
James M. Chard of Cordova Mines, Ontario





Legend

- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
- Mining Claim**
 - Mining Claim
 - Boundary Claim
- Alienation**
 - Withdrawal
 - Notice
- ENDM Administrative Boundaries**
 - ENDM Townships and Areas
 - Geographic Lot Fabric
 - UTM Grid 1K
 - UTM Grid 10K
 - Mining Division
 - Mineral Exploration and Development Region
 - CLUPA Protected Area - Far North
 - Resident Geologist District
 - Federal Land Other
 - Native Reserves
- AMIS Sites**
 - AMIS Sites
 - AMIS Features
 - Drill Hole
 - Mineral Occurrences
- MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
- Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
 - Provincial Grid Group
- Land Tenure**
 - Surface Rights
 - Mining Rights
 - Mining and Surface Rights
 - Order-in-Council

0 0.34 km

Projection: Web Mercator



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Table 1. Claim Logistics

McVittie Property, McVittie Twp., Ontario

Claim	Location	Cell Type	Assessment Date	Assessment Amount
201952	32D04J315	Boundary Cell	December 11, 2019	\$200
137258	32D04J316	Boundary Cell	December 11, 2019	\$200
312540	32D04J335	Boundary Cell	December 11, 2019	\$200
221499	32D04J316	Boundary Cell	December 11, 2019	<u>\$200</u>
				\$800

Title:

33.34%

Robert J. Dillman

8901 Reily Drive Mount Brydges, Ontario N0L 1W0

33.33%

Jim Renaud

21272 Denfield Road, London, Ontario N6H 5L2

33.33%

James M. Chard

3495 Country Road 48 Cordova Mines, Ontario K0L 1Z0

Land Status and Topography

The McVittie property is situated on uninhabited Crown Land. There are no building structures or electrical power lines close to the property.

The property is forested with spruce and balsam.

The property is centered over a pond which is held back by beaver dams on the east side (Figure 3). Beavers were active at the time of this survey and the pond was filled with water.

The property is at a mean elevation of 315 metres above sea level. Slightly higher elevations occur along the north and southeast boundaries of the property.

Outcrop exposure varies. Outcrops can be found in the southeast section of the property and in the vicinity of the pond. A ridge of outcrop extends along the north boundary of the property.

Regional and Local Geology

The McVittie Property is situated in the Larder Lake area of the Abitibi Greenstone Belt. The Abitibi Greenstone Belt consists of a variety of Precambrian metavolcanic and metasedimentary rocks extending from Timmins, Ontario to the Val D'Or region of Quebec. The property is on the south limb of a regional syncline structure and approximately 9 km north of the Cadillac-Larder Break.

The geology of the McVittie Property is depicted in Figure 4. The property is underlain by pillowed to intermediate metavolcanic rocks of the Lower Blake River Formation dated 2704 - 2701 Ma and iron to magnesium rich mafic metavolcanic rocks of the Kinojevis Assemblage. Units strike northwest and dip moderately towards the northeast. The northern section of the property is crossed by a gabbro sill.



600036mE, 5337425mN
Looking east

Figure 3.
North lobe of pond

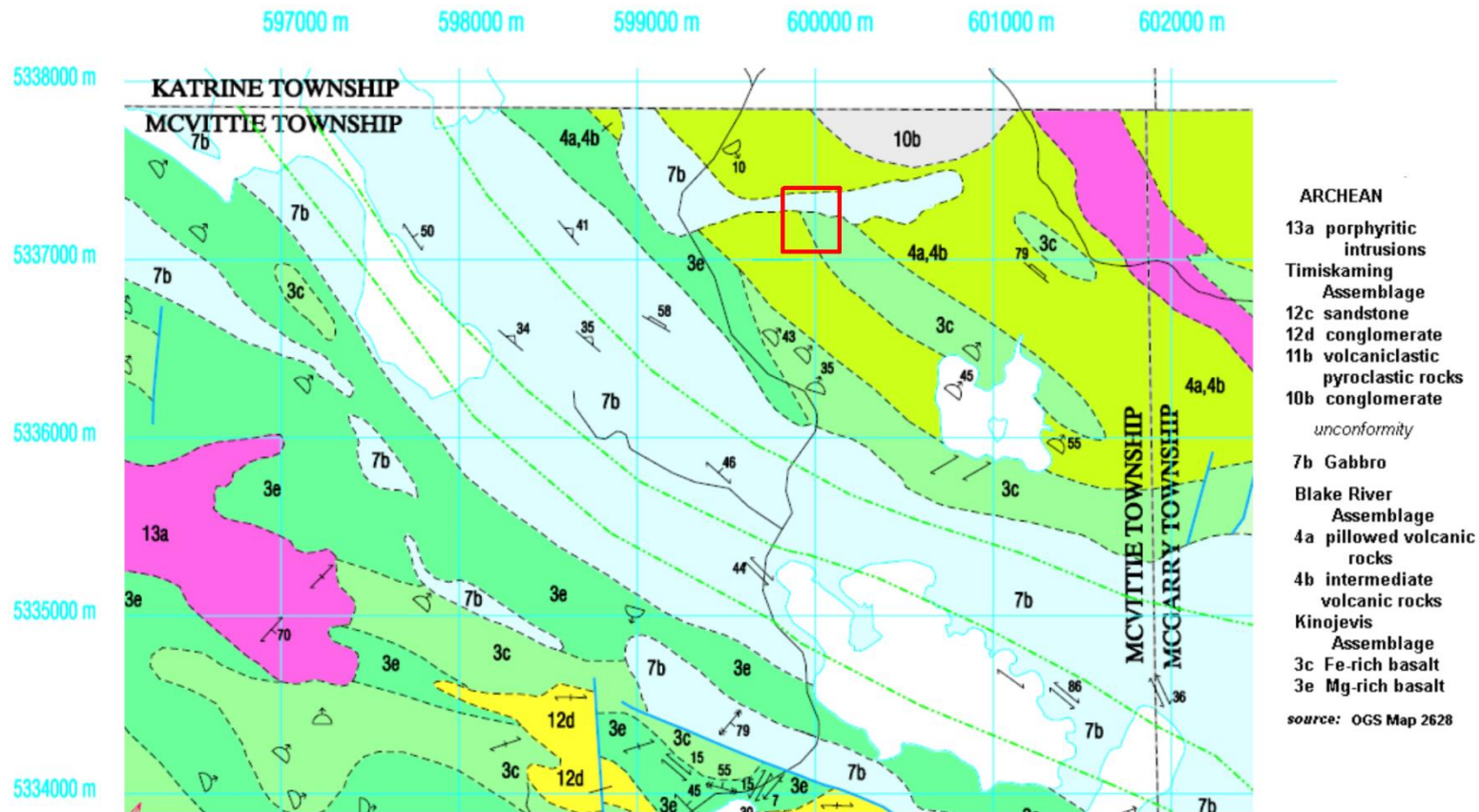


Figure 4.
Geology of McVittie Claim
McVittie Twp., Ontario

History of Exploration

In 1941, the geology of McVittie Township was described in detail by J.E. Thompson on behalf of the Ontario Ministry of Northern Development and Mines.

In 1979, McVittie Township was covered by an airborne electromagnetic and magnetic survey by the Ontario Geological Survey.

In 1985, Kerr Addison Mines Ltd. explored a large area in the northeast section of McVittie Twp. which included the area covered by the McVittie Property. Surveys by Kerr Addison included: geological mapping, stream sediment sampling, ground magnetometer and VLF surveys. The company reports pyrite mineralization in outcrops exposed in the vicinity of the pond in the center of the property. The outcrops are mapped as intermediate volcanic rock, breccia, porphyritic rock and amygdaloidal flows. The area was not covered by their geophysical surveys. A stream-sediment sample was taken in the creek draining the pond but the sample did not contain any gold.

In 1988, Regal Star Resources Limited completed an Induced Polarization (IP) survey over their claim block which included the area covered by the McVittie Property. The survey revealed the property is located at the intersection of northwest trending and east-west trending conductive features.

In 2000, the Ontario Geological Survey completed an airborne magnetic and electromagnetic survey over the Kirkland Lake area. The survey included McVittie Township and the area covered by McVittie Property.

In 2006, SouthernEra Diamond Inc. prospected the area around the pond in the centre of McVittie Property. The company reported finding outcrops of rusty, altered grano-diorite exposed on the peninsula extending from the west side of the pond. Later in the same year, the company completed a ground magnetometer survey which identified a positive bulls-eye type magnetic feature centred under the pond just east of the peninsula.

In 2015, the current property owners collected several rock samples from the McVittie Property. Microscopic examination, microprobe analysis and assaying lead to the identification of traces of pentlandite and vanadium in mafic metavolcanic brecciated flow rocks situated close to the circular magnetic feature identified by SouthernEra.

Survey Dates and Personnel

The McVittie Property was prospected on June 17, 2019 by claim owners: Robert Dillman, Dr. Jim Renaud and James M. Chard. One day was spent exploring the property.

Survey Logistics

The area traversed on McVittie Property is shown in Figure 5. Approximately 1,300 meters were traversed.

Ten rock samples were collected on the property. The locations of the samples and the assay results are summarized in Table 2. Sample locations and assay results are also shown in Figure 6. The UTM coordinates for each sample site was recorded using a Garmin GPS model RHINO-750. The GPS unit was set to NAD 83, Zone 17.

The rock samples were sent for analysis to SGS Minerals in Lakefield, Ontario. All the samples were assayed for gold using a standard Fire Assay method. At the lab, each sample was weighed and dried. 3.0 kg of each sample was crushed and passed through a 2mm screen until 75% of the material was sieved. From the -2mm fraction, 250g was selected and further pulverized until 85% had passed through a 75 micron screen. From the -75 micron fraction, a 50 gram charge was selected for fire assay by lead (Pb) fusion technique. The amount of gold in each sample was measured by Atomic Absorption Spectrometry (AAS). All the samples were also assayed by a multi-element package using a 2 acid digestion. Elements were measured by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

An assay certificate from SGS Minerals is appended to this report.

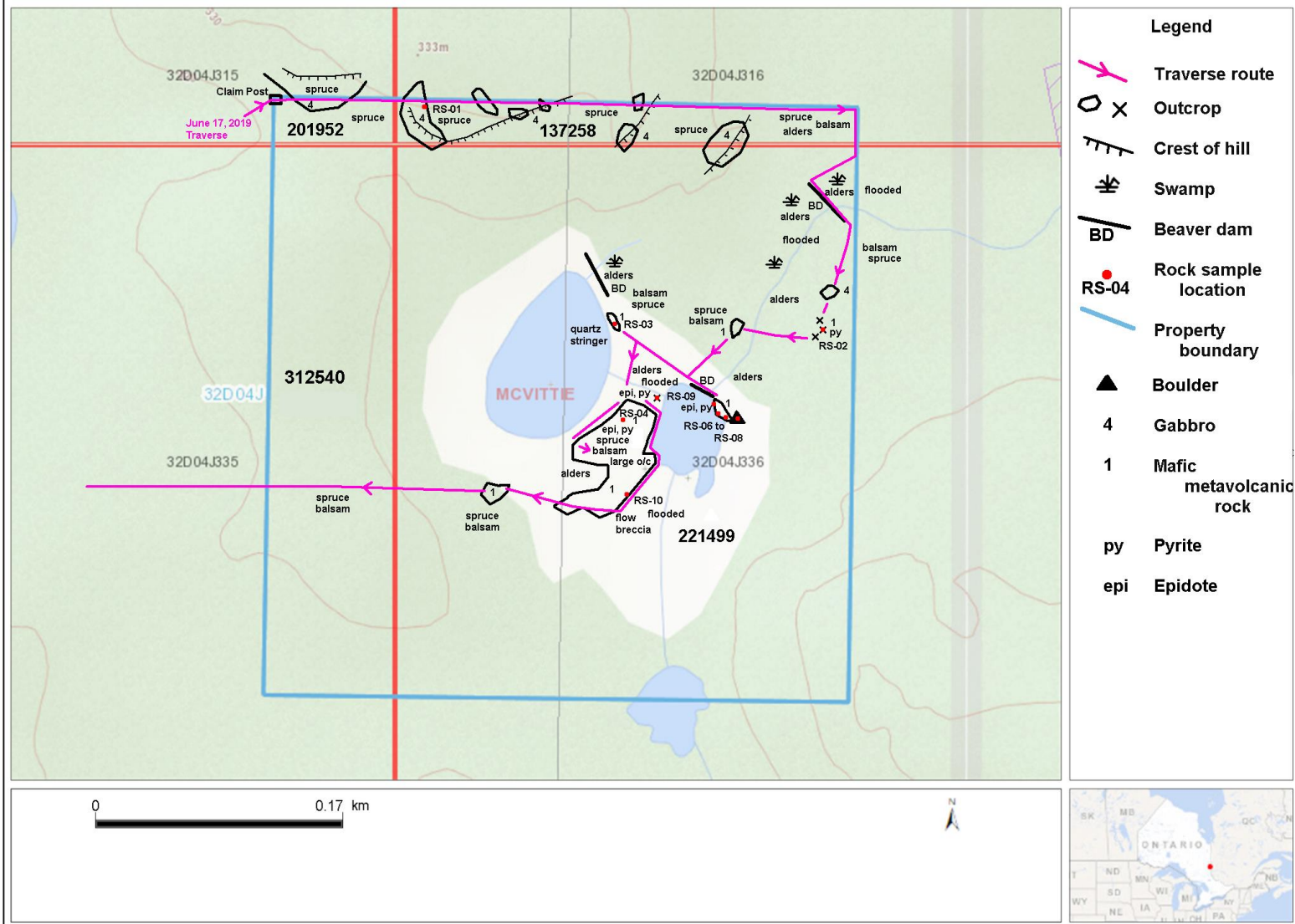
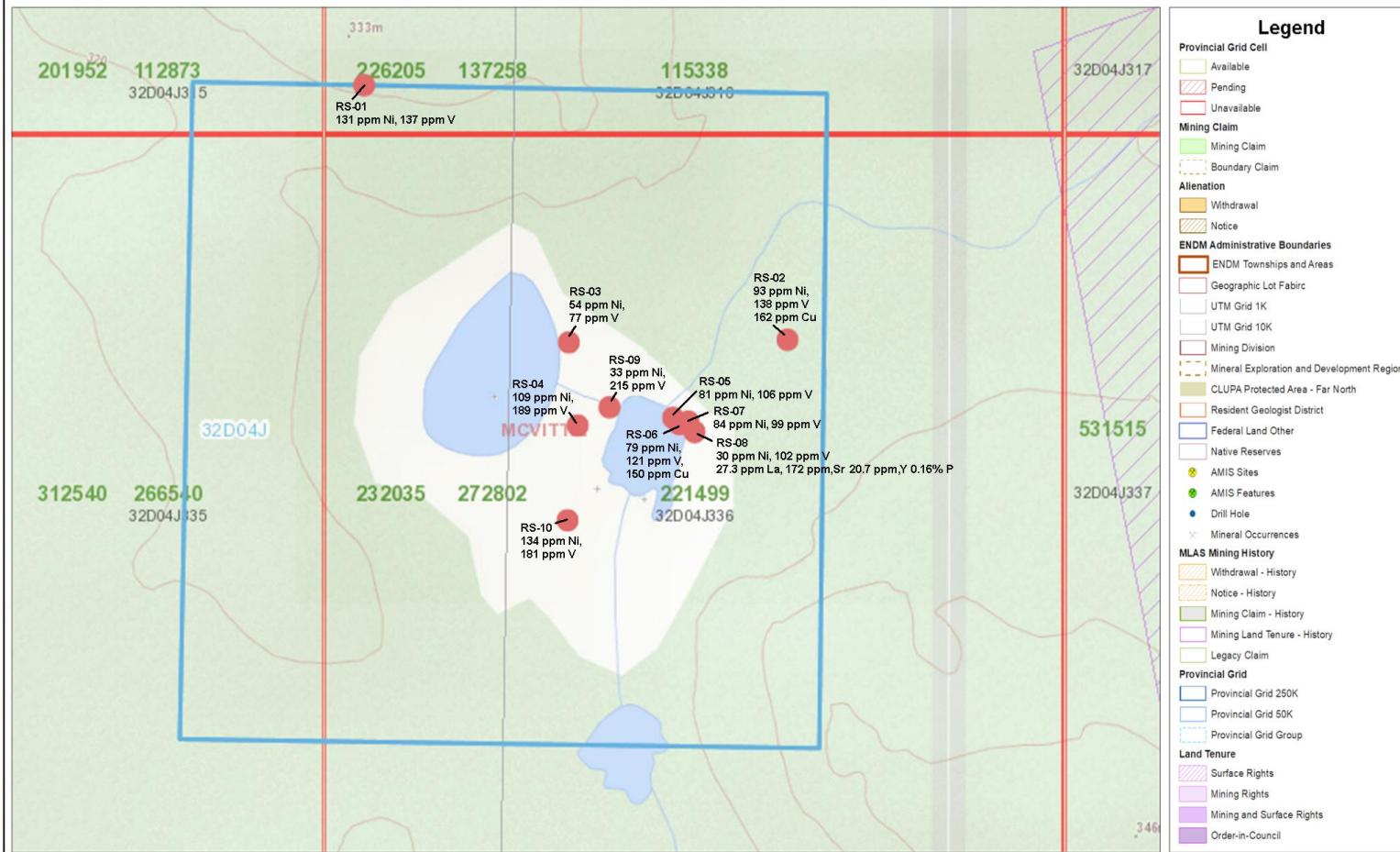


Table 2.
Rock Sample Locations, Descriptions and Assay Results
McVittie Property, McVittie Twp., Ontario

Sample Number	UTM	Type	Width metres	Description	Au ppb	Cu ppm	Ni ppm	V ppm
RS-1	599908mE 5337582mN	Best Grab	0.25	Chlorite slickened fracture in massive gabbro 165 ⁰ . <Trace fine pyrite.	<5	68.4	131	137
RS-2	600173mE 5337429mN	Best grab	2.0	Basalt close to gabbro contact. Weak fabric, chlorite slickened cleavages and some hairline quartz stringers. Trace – 10% disseminated pyrite	<5	162	93	138
RS-3	600036mE 5337425mN	Rep.	0.10	Quartz-feldspar veinlet with angular fragments of basalt wallrock. Strike 162 ⁰	<5	25.7	54	77
RS-4	6000044mE 5337376mN	Rep.	0.10	Fine-grained basalt with trace – 2% pyrite, some quartz-epidote clots and stringers with traces of pyrite.	<5	31.3	109	189
RS-5	600102mE 5337380mN	Best grab	0.50	Basalt with hairline epidote-calcite stringers, 1-10% disseminated pyrite in wallrock. Some larger 1cm pyrite clots.	<5	94.9	81	106
RS-6	600107mE 5337376mN	Best grab	0.50	Weakly silicified basalt with 1 -2 cm calcite + pyrite clots and hairline epidote stringers with traces of pyrite and possible fine chalcopyrite. Trace- 5% sulphides.	15	150	79	121
RS-7	600112mE 5337375mN	Best grab	1.0	Massive basalt with trace – 2% pyrite, some quartz clots with traces of pyrite.	<5	57.9	84	99
RS-8	600117mE 5337371mN	Rep.	0.50	Boulder, rounded. Fine-grained massive gabbro with with trace disseminated pyrite + chalcopyrite.	<5	81.7	30	102
RS-9	600063mE 5337385mN	Best grab	2.0	Basalt with stronger epidote + quartz + calcite stringers and alteration. Best area of mineralization observed.	<5	129	33	215
RS-10	600037mE 5337314mN	Best grab	1.0	Flow-top breccia? with trace – 1% fine disseminated pyrite Weak silicified matrix.	<5	54.9	134	181



0 0.17 km

Projection: Web Mercator



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 Rock Sample Location

Survey Results

A ridge of outcrop along the north boundary of the property was prospected first. Outcrop in this area are well exposed and consist of predominately of massive medium grained gabbro. Several northwest orientated chlorite slickened slips were noted in the gabbro. A sample of a slip with traces of sulphides assayed (RS-01) 131 ppm Ni and 137 ppm V (Figure 7).

The gabbro-metavolcanic contact was crossed traversing southwest from the northeast corner of the property. The contact was not exposed and much of the area in the vicinity of the contact was flooded by beaver activity thus limiting outcrop exposure. An outcrop consisting of fine-grained mafic metavolcanic rock was found south of the gabbro and close to the contact., Disseminated, patchy fine-grained pyrite mineralization was noted in the outcrop. A sample assayed (RS-02) 93 ppm Ni, 162 ppm Cu and 138 ppm V.

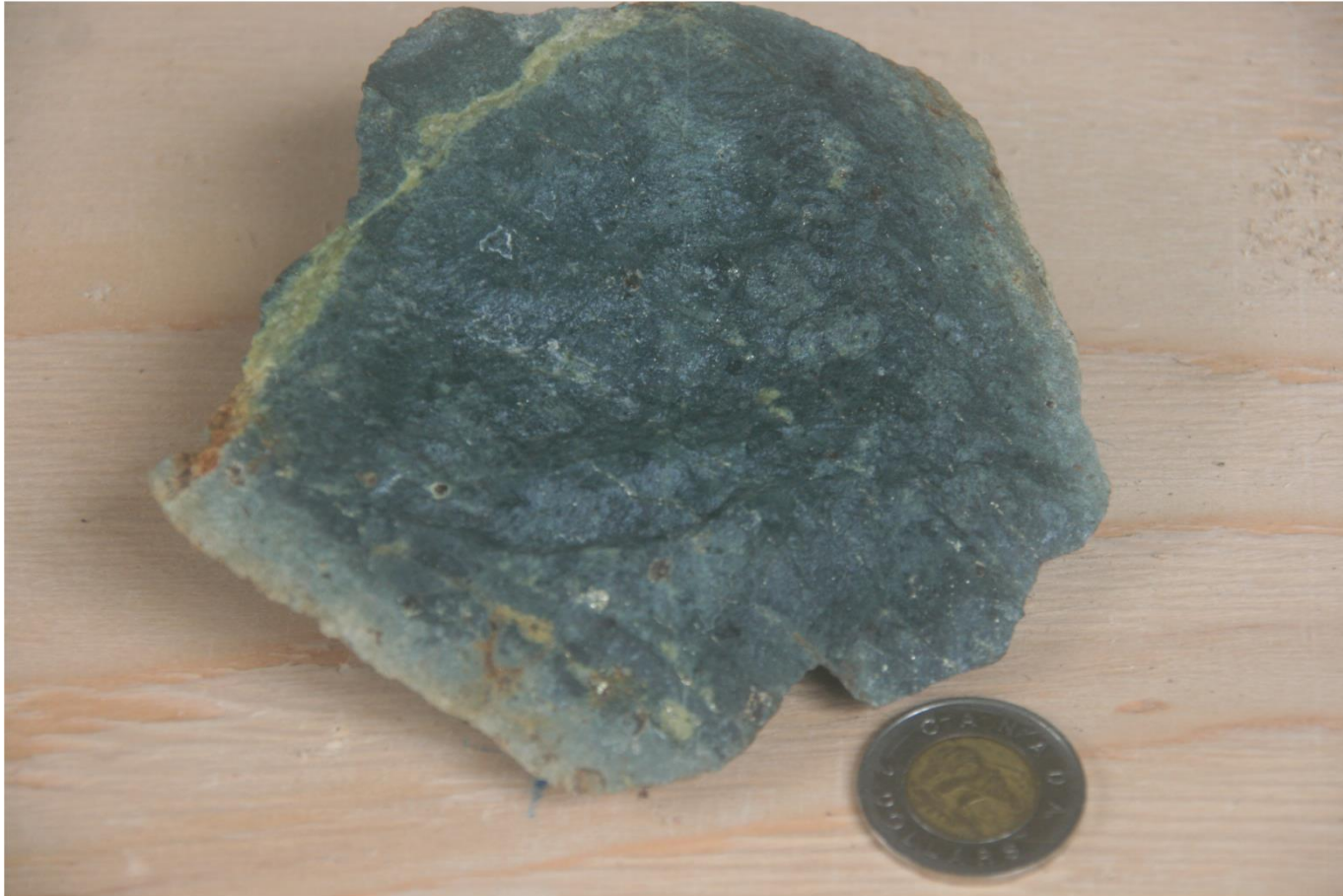
The east side of the pond and the island were prospected in detail. Eight rock samples were collected in this area. Outcrops consist of fine-grained basalt (Figure 8, Figure 9) and brecciated flows (Figure 10). Epidote stringers are present in many outcrops and are usually accompanied by scattered disseminated pyrite. Assays ranged 33 to 134 ppm Ni, 31.3 to 150 ppm Cu and 99 to 215 ppm V. A boulder of gabbro with fine pyrite found in the same area assayed anomalous 20.7 ppm Yttrium, 27.3 ppm Lanthanum and 0.16% Phosphate.

A quartz stringer was located in mafic metavolcanic outcrop on the east shore of the pond (Figure 11). A sample of the quartz stringer did not return any significant values of gold, nickel or vanadium values



599908mE, 5337582mN
RS-01

Figure 7.



600102mE, 5337380mN
RS-05
Mafic metavolcanic with epidote and fine grained pyrite

Figure 8.



600102mE, 5337380mN
RS-05

Figure 9



600036mE, 5337425mN
RS-03
quartz stringer in mafic metavolcanic rock
looking southeast

Figure 11.

Discussion of Results

Further prospecting on the McVittie Property has identified more pyrite-epidote mineralization but failed to detect any appreciable values of nickel, copper or vanadium. Unfortunately, investigation was partly hindered by the pond being full of water at the time of the survey which covered and prevented access to some outcrops. At present, it is believed the epidote, alteration and weakly anomalous nickel, copper and vanadium values observed in the outcrops on the island and east side of the pond are related to a small intrusive body situated under the south lobe of the pond and potentially correlating the ground magnetometer feature identified in 2006 by SouthernEra Diamond Inc.

Conclusions and Recommendations

Additional exploration work is warranted. Further prospecting in addition to geological mapping and ground magnetometer and electromagnetic-VLF surveys are recommended.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'R. J. Dillman', is written over a light gray rectangular background.

Robert J. Dillman P.Geo., B.Sc.

November 25, 2019

References

- Allan, S. 2007.** ASSESSMENT REPORT FOR 18 MINERAL CLAIMS: LARDER LAKE DISTRICT 3004365; 4202975; 4202976; 4202977; 4202979; 4202981; 4202985; 4203890; 4206398; 4206402; 4206422; 4206425; 4206426; 4206427; 4206428; 4206429; 4206475; 4209282. *For:* SouthernEra Diamonds Inc.
- Dillman, R.J. and Renaud, Dr. J. 2016.** Report On Rock Sampling, Claim: 4284069 McVittie Township, Ontario, Larder Lake Mining Division, unpublished assessment report.
- Jackson, S.L. 1995.** Precambrian Geology, Larder Lake area; Ontario. Ontario Geological Survey, Map 2628, scale 1 : 50,000.
- Lambert, G. and Turcotte, R 1988.** Induced Polarization, property of Regal Star Resources Ltd., Katrine-McVittie Twp.'s, Ontario, March 1988.
- Lewis, M.P. 1985.** Work Report on Katrine-McVittie Project, Katrine-McVittie Townships, Northeastern Ontario, Larder Lake Mining District. *For:* Kerr Addison Mines Limited
- Ontario Geological Survey 2000.** Airborne magnetic and electromagnetic surveys, Kirkland Lake area, Ontario. Ontario Geological Survey. Map 82035. Scale 1 : 20,000
- Ontario Geological Survey 1979.** Airborne Electromagnetic and Total Intensity Magnetic Survey, Kirkland Lake area, McVittie Township, District of Timiskaming, by Questor Surveys Limited, for the Ontario Geological Survey, Prelim. Map P.2266 Geophys. Ser., scale 1: 20,000 Survey and compilation, February and March 1979.

Robert J. Dillman P.Geo, B.Sc.
ARJADEE PROSPECTING
8901 Reily Drive, Mount Brydges, Ontario, Canada, N0L1W0
Phone/ fax (519) 264-9278

CERIFICATE of AUTHOR

I, **Robert J. Dillman, Professional Geologist**, do certify that:

1. I am the **President** and the holder of a **Certificate of Authorization** for:

ARJADEE PROSPECTING
8901 Reily Drive
Mount Brydges, Ontario, Canada
N0L1W0

2. I graduated in 1991 with a **Bachelor of Science Degree in Geology** at the **University of Western Ontario**.

3. I am an active member of:

Association of Professional Geoscientists of Ontario, APGO
Prospectors and Developers Association of Canada, PDAC

4. I have been a **licensed Prospector in Ontario** since 1985.

5. I have worked continuously as a **Professional Geologist** for 28 years.


6. Unless stated otherwise, **I am responsible** for the preparation of all sections of the Assessment Report titled:

REPORT ON ROCK SAMPLING
McVITTIE PROPERTY
McVITTIE TOWNSHIP, ONTARIO
LARDER LAKE MINING DIVISION

dated, November 25, 2019

7. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report that is not contained in the Assessment Report and its omission to disclose makes the Assessment Report misleading.

Dated this 25th day of November, 2019


Robert James Dillman
Arjadee Prospecting

P.Geo





Certificate of Analysis
Work Order : LK1901696
[Report File No.: 000022314]

Date: October 21, 2019

To: **COD SGS MINERALS - GEOCHEM LAKEFIELD**
185 CONCESSION ST
PO BOX 4300
LAKEFIELD ON K0L 2H0

P.O. No.: Robert Dillman 2019-40588
Project No.: -
Samples: 10
Received: Sep 6, 2019
Pages: Page 1 to 6
(Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
10	G_WGH79	Weighing of samples and reporting of weights
10	G_PRP89	Weigh, Dry, to 3kg, Crush 75% -2mm, Split to 250g, Pulverize to 85% -75µm
10	GE_FAA515	@Au, FAS, AAS, 50g-5ml
10	GE_ICP14B	2 acid digest for non-organic or low sulphide <10% - ICP-OES

Storage: Pulp & Reject

PULP STORAGE : DISCARD

Comments:

Assays not suitable for commercial exchange.

Certified By :

Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable

I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	WtKg G_WGH79 kg	@Au GE_FAA515 ppb	Ag GE_ICP14B ppm	Al GE_ICP14B %	As GE_ICP14B ppm	Ba GE_ICP14B ppm	Be GE_ICP14B ppm	Bi GE_ICP14B ppm
RS-01	0.894	<5	<2	4.42	<3	18	<0.5	<5
RS-02	0.973	<5	<2	6.56	<3	10	<0.5	<5
RS-03	0.612	<5	<2	1.69	<3	15	<0.5	<5
RS-04	0.642	<5	<2	4.06	<3	10	<0.5	<5
RS-05	1.519	<5	<2	2.56	<3	80	<0.5	<5
RS-06	1.429	15	<2	2.82	<3	80	<0.5	<5
RS-07	1.346	<5	<2	2.17	<3	11	<0.5	<5
RS-08	1.027	<5	<2	2.86	3	91	0.7	<5
RS-09	1.344	<5	<2	2.13	<3	22	<0.5	<5
RS-10	1.465	<5	<2	4.25	<3	54	<0.5	<5
*Rep RS-08		<5						
*Std OREAS-217		316						
*Rep RS-09			<2	2.24	<3	22	<0.5	<5
*Std OREAS-902			<2	0.52	588	11	0.9	9
*Blk BLANK			<2	<0.01	<3	<5	<0.5	<5

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Element Method Det.Lim. Units	Ca	Cd	Co	Cr	Cu	Fe	Hg	K
	GE_ICP14B 0.01 %	GE_ICP14B 1 ppm	GE_ICP14B 1 ppm	GE_ICP14B 1 ppm	GE_ICP14B 0.5 ppm	GE_ICP14B 0.01 %	GE_ICP14B 1 ppm	GE_ICP14B 0.01 %
RS-01	2.44	<1	28	143	68.4	4.65	<1	0.09
RS-02	3.80	<1	33	129	162	6.20	<1	0.05
RS-03	1.21	<1	15	127	25.7	2.31	<1	0.06
RS-04	1.32	<1	31	170	31.3	6.05	<1	0.02
RS-05	1.77	<1	23	108	94.9	4.09	<1	0.09
RS-06	2.56	<1	25	98	150	4.52	<1	0.16
RS-07	1.06	<1	24	103	57.9	3.78	<1	0.04
RS-08	2.54	<1	16	131	81.7	4.14	<1	0.05
RS-09	1.37	<1	33	96	129	7.61	<1	0.05
RS-10	2.99	<1	26	119	54.9	5.68	<1	0.06
*Rep RS-09	1.46	<1	34	122	136	8.06	<1	0.05
*Std OREAS-902	4.16	<1	931	23	3083	3.08	<1	0.25
*Blk BLANK	<0.01	<1	<1	<1	<0.5	<0.01	<1	<0.01

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Element Method Det.Lim. Units	La	Li	Mg	Mn	Mo	Na	Ni	P
	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
	0.5 ppm	1 ppm	0.01 %	2 ppm	1 ppm	0.01 %	1 ppm	0.01 %
RS-01	0.8	20	3.50	600	<1	0.05	131	<0.01
RS-02	1.3	12	3.05	952	<1	0.46	93	0.03
RS-03	1.9	6	0.96	439	3	0.05	54	0.02
RS-04	3.2	15	3.08	1002	<1	0.09	109	0.05
RS-05	3.5	14	2.08	805	2	0.07	81	0.05
RS-06	3.5	12	2.32	973	4	0.07	79	0.05
RS-07	2.3	8	1.72	479	2	0.10	84	0.04
RS-08	27.3	6	2.30	813	1	0.08	30	0.16
RS-09	2.4	7	1.60	838	<1	0.08	33	0.08
RS-10	3.7	15	2.73	870	1	0.07	134	0.05
*Rep RS-09	2.3	8	1.66	878	5	0.08	35	0.09
*Std OREAS-902	13.9	2	2.28	483	12	0.01	162	0.07
*Blk BLANK	<0.5	<1	<0.01	<2	<1	<0.01	<1	<0.01

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Element Method Det.Lim. Units	Pb	S	Sb	Sc	Sn	Sr	Ti	V
	GE_ICP14B 2 ppm	GE_ICP14B 0.01 %	GE_ICP14B 5 ppm	GE_ICP14B 0.5 ppm	GE_ICP14B 10 ppm	GE_ICP14B 0.5 ppm	GE_ICP14B 0.01 %	GE_ICP14B 1 ppm
RS-01	9	0.03	<5	11.0	<10	11.2	0.20	137
RS-02	3	0.61	<5	8.9	<10	44.6	0.23	138
RS-03	<2	0.03	<5	4.7	<10	16.6	0.24	77
RS-04	3	0.01	<5	10.6	<10	11.7	0.51	189
RS-05	3	1.29	<5	5.6	<10	44.1	0.29	106
RS-06	3	2.05	<5	9.2	<10	29.8	0.23	121
RS-07	3	0.64	<5	4.2	<10	10.7	0.35	99
RS-08	9	0.67	<5	8.6	<10	172	0.31	102
RS-09	2	1.01	<5	6.8	<10	27.9	0.47	215
RS-10	3	0.26	<5	9.6	<10	29.3	0.46	181
*Rep RS-09	2	1.03	<5	7.2	<10	30.3	0.51	218
*Std OREAS-902	11	1.84	<5	2.5	<10	21.2	<0.01	9
*Blk BLANK	<2	<0.01	<5	<0.5	<10	<0.5	<0.01	<1

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Element Method Det.Lim. Units	W	Y	Zn	Zr
	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
	10	0.5	1	0.5
	ppm	ppm	ppm	ppm
RS-01	<10	3.8	68	<0.5
RS-02	<10	7.1	56	<0.5
RS-03	<10	3.9	40	12.2
RS-04	<10	8.8	76	24.0
RS-05	<10	6.0	58	13.7
RS-06	<10	6.5	63	8.3
RS-07	<10	5.8	46	15.3
RS-08	<10	20.7	95	89.7
RS-09	<10	7.1	66	<0.5
RS-10	<10	10.1	141	21.0
*Rep RS-09	<10	7.3	69	<0.5
*Std OREAS-902	<10	7.3	6	12.7
*Blk BLANK	<10	<0.5	<1	<0.5

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