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SPRUCEJACK PROJECT



**WORK REPORT OF THE
SUMMER 2017 EXPLORATION PROGRAM ON
THE SPRUCEJACK PROJECT,
HEMLO AREA, ONTARIO
For
CANADIAN OREBODIES INC.**

NTS Map sheets 42D/09 & 42D/16

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1.0 - SUMMARY -

From June to October of 2017 a prospecting program was carried out on the Canadian Orebodies Inc. (“Orebodies”) Sprucejack claim groups, collectively known as the Sprucejack Project, that are located in the Hemlo Area of northwestern Ontario, see Figure 1.

The Sprucejack Property is located approximately 23 kilometres northeast of the town of Marathon, 38 kilometres southwest of the town of Manitouwadge and approximately 25 kilometres northwest of the Hemlo Gold Mines, see Figure 2.

One hundred and thirty-five grab samples were collected on the Sprucejack claims. Lithologies sampled were predominantly mafic volcanics, granites, ultramafics, gabbros and quartz veins. Of the 135 samples, 9 returned gold assays of 0.05gpt Au or greater, 7 returned gold assays of 0.1gpt Au or greater, 3 returned gold assays of 1.0gpt Au or greater, and 1 sample returned gold assays of 10.0gpt Au or greater (11.9 gpt Au).

A new gold-bearing occurrence (Contact Lake) was located in what appears to be a mafic body within the granitic rocks, located approximately 400 metres southeast of Contact Lake.

The results of the prospecting program are viewed as extremely successful, and the potential for future, more detailed work to identify further gold findings is high.

2.0 - INTRODUCTION –

Canadian Orebodies acquired the Sprucejack Property claims by staking between October 28th, 2016 and September 7th, 2017. The main target minerals are gold where previous operator’s discoveries in the area had pointed to the area’s potential, as well as its proximity to the world-class Hemlo gold deposit. Details of the 2017 work programs are presented below.

2.1 PROPERTY DESCRIPTION, LOCATION AND ACCESS

Canadian Orebodies Inc.’s Sprucejack Project is located northeast of Lake Superior in northeastern Ontario. The property is situated approximately 23 kilometres northeast of the town of Marathon and approximately 25 kilometres northwest of the Hemlo Gold Mine (see Figure 2).

The Sprucejack Property is comprised of 42 staked 100% owned claims, comprising 560 units in a non-contiguous claim group, see Figure 3.

Access to the property is best achieved by helicopter.

Manitoba



Quebec

Ontario

• Red Lake

• Kenora

• Sioux Lookout

• Dryden

• Nakina

• Geraldton

**Sprucejack
Property**

• Thunder Bay

• Marathon

• Wawa

• Timmins

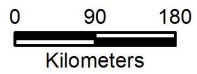
• Kirkland
Lake

• Sault Ste. Marie

• Sudbury

• Ottawa

• Toronto



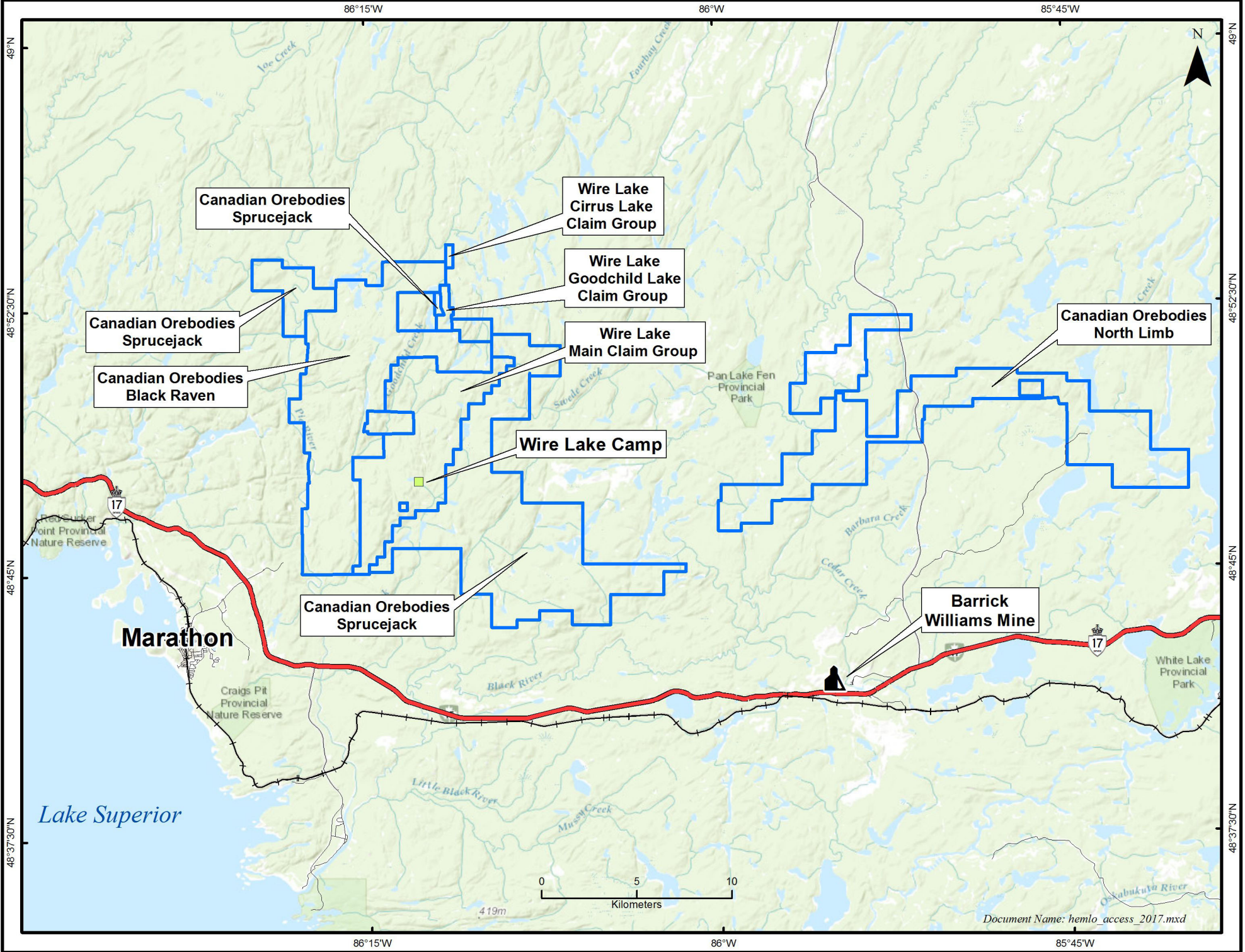
CANADIANOREBODIES

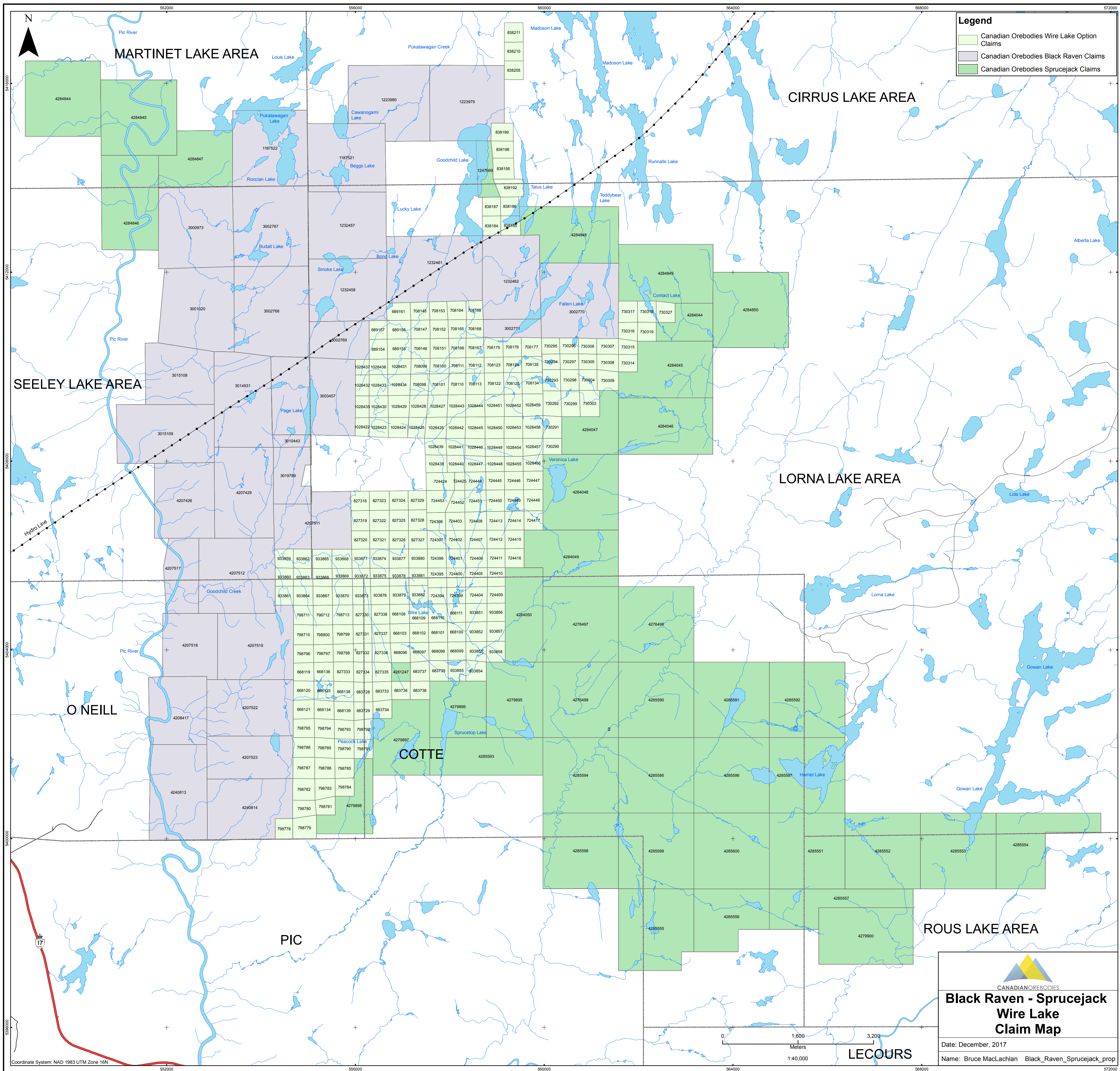
Sprucejack Property General Location Map

Date: December, 2017

Name: Bruce MacLachlan


File: ontloc_dec2017_blkraven_sprucej





Legend

- Canadian Orebodies Wire Lake Option Claims
- Canadian Orebodies Black Raven Claims
- Canadian Orebodies Sprucejack Claims


**Black Raven - Sprucejack
Wire Lake
Claim Map**
 Date: December, 2017
 Name: Bruce MacLachlan Black_Raven_Sprucejack_prop

MARTINET LAKE AREA

CIRRUS LAKE AREA

SEELEY LAKE AREA

LORNA LAKE AREA

O'NEILL

COTTE

ROUS LAKE AREA

PIC

LECOURS

Coordinate System: NAD 1983 UTM Zone 16N

Table 1 - List of Mining Claims Sprucejack Property

Table 1					
Township / Area	Claim Number	Claim Due Date	Units	Ha	Property
CIRRUS LAKE AREA	1247569	2019-Oct-11	3	48	Sprucejack
COTTE	4276497	2019-Apr-28	16	256	Sprucejack
COTTE	4276498	2019-Apr-28	16	256	Sprucejack
COTTE	4276499	2019-Apr-28	16	256	Sprucejack
COTTE	4279895	2018-Oct-28	12	192	Sprucejack
COTTE	4279896	2018-Oct-28	9	144	Sprucejack
COTTE	4279897	2018-Oct-28	11	176	Sprucejack
COTTE	4279898	2018-Oct-28	7	112	Sprucejack
COTTE	4281247	2019-Mar-06	1	16	Sprucejack
COTTE	4285555	2019-Apr-28	15	240	Sprucejack
COTTE	4285556	2019-Apr-28	10	160	Sprucejack
COTTE	4285590	2019-Apr-28	16	256	Sprucejack
COTTE	4285591	2019-Apr-28	16	256	Sprucejack
COTTE	4285593	2019-Apr-28	12	192	Sprucejack
COTTE	4285594	2019-Apr-28	16	256	Sprucejack
COTTE	4285595	2019-Apr-28	16	256	Sprucejack
COTTE	4285596	2019-Apr-28	16	256	Sprucejack
COTTE	4285598	2019-Apr-28	16	256	Sprucejack
COTTE	4285599	2019-Apr-28	16	256	Sprucejack
COTTE	4285600	2019-Apr-28	16	256	Sprucejack
LORNA LAKE AREA	4284044	2019-Apr-28	6	96	Sprucejack
LORNA LAKE AREA	4284045	2019-Apr-28	14	224	Sprucejack
LORNA LAKE AREA	4284046	2019-Apr-28	15	240	Sprucejack
LORNA LAKE AREA	4284047	2019-Apr-28	8	128	Sprucejack
LORNA LAKE AREA	4284048	2019-Apr-28	16	256	Sprucejack
LORNA LAKE AREA	4284049	2019-Apr-28	14	224	Sprucejack
LORNA LAKE AREA	4284050	2019-Apr-28	10	160	Sprucejack
LORNA LAKE AREA	4284848	2019-Sep-07	13	208	Sprucejack
LORNA LAKE AREA	4284849	2019-Sep-07	15	240	Sprucejack
LORNA LAKE AREA	4284850	2019-Sep-07	16	256	Sprucejack
LORNA LAKE AREA	4285551	2019-Apr-28	16	256	Sprucejack
LORNA LAKE AREA	4285552	2019-Apr-28	16	256	Sprucejack
LORNA LAKE AREA	4285553	2019-Apr-28	16	256	Sprucejack
LORNA LAKE AREA	4285554	2019-Apr-28	14	224	Sprucejack
LORNA LAKE AREA	4285592	2019-Apr-28	16	256	Sprucejack
LORNA LAKE AREA	4285597	2019-Apr-28	16	256	Sprucejack
MARTINET LAKE AREA	4284844	2019-Sep-07	16	256	Sprucejack
MARTINET LAKE AREA	4284845	2019-Sep-07	16	256	Sprucejack
MARTINET LAKE AREA	4284846	2019-Sep-07	15	240	Sprucejack
MARTINET LAKE AREA	4284847	2019-Sep-07	11	176	Sprucejack
ROUS LAKE AREA	4279900	2018-Oct-28	15	240	Sprucejack
ROUS LAKE AREA	4285557	2019-Apr-28	10	160	Sprucejack

2.2 CLIMATE, RESOURCES, LOCAL INFRASTRUCTURE AND PHYSIOGRAPHY

As summarized by MacConnell and Mackie (2017) (with minor modifications), authors of parallel Wire Lake report for the 2017 exploration season for Canadian Orebodies

The Sprucejack Project is located within the Canadian Shield, which is a major physiographic division of Canada. The property is situated in an area of swamps, small lakes, and moderate to steep hills, with scattered to locally moderate outcrop. Elevation across the project area ranges from 275 to 450 m.

The Property is covered with a thick secondary growth of birch, balsam fir, black spruce, red cedar and some jack pine and poplar. The underbrush can be very dense with intergrowths of maple, alder and hazel.

The Sprucejack Property is situated approximately 20 km northeast of the town of Marathon, Ontario (population ~3300), and 30 km northwest of the producing gold mine at Hemlo. Access for the 2017 exploration program was by helicopter based out of the Wire Lake exploration camp.

Marathon is approximately 350 km east of Thunder Bay, Ontario located approximately 4 kilometres southwest the Trans-Canada Highway 17. Thunder Bay is serviced by many airlines, with daily flights to major cities in Canada such as Toronto and Winnipeg, allowing easy connections to other Canadian cities and international destinations.

Climate in the area is typical of Northern Ontario, with cold winters and warm summers. Average January minimum temperatures range from -18°C to -32°C, and average July temperatures are between 24°C and 32°C. Exploration work can be carried out (subject to snow and freezing) for most of the year. Certain mapping, mechanized stripping, and soil sampling activities are best performed in snow-free conditions, whereas drilling can occur any time of the year.

2.3 PERSONNEL

Initial prospecting was carried out by Bruce MacLachlan and Coleman Robertson (Beggs Crew) of Emerald Geological Services (EGS). Field gear for the Beggs Lake crew was provided by EGS, B. MacLachlan's company. Expedition Camp Services and Logistics of Cochrane, Ontario provided helicopter support, based out of the camp at Wire Lake.

In late summer/fall, consulting geologists Stephen MacConnell and Henry Hutteri, along with geologist David Gracia and prospectors Doug Kakeeway, and Valantino Demoulin (Wire Crew) working out of the Wire Lake camp, conducted prospecting at various targets on the property.

3.0 - GEOLOGY -

3.1 REGIONAL AND PROPERTY GEOLOGY

The regional geology has been summarized by Labreque, 2011 for Entourage Metals Ltd., as written below with modifications.

The Sprucejack Property is situated within the northwestern margin of the eastern portion of the Schreiber-Hemlo greenstone belt of the eastern Wawa Subprovince (Williams et al. 1991).

It occurs within the north-south trending Cirrus lobe of the greenstone belt and within the joined tonalitic to granodioritic Black-Pic Batholith which borders it to the north, east and northwest. To the southwest is the late-Proterozoic, syenitic to gabbroic Coldwell Alkaline Complex, see Figure 4.

Exploration on the property was mainly conducted within the granitic rocks of the Black-Pic Batholith, although occasionally unmapped mafic volcanic/gabbroic bodies, corresponding to magnetic highs, were observed, as at the Contact Occurrence.

MAJOR MINERAL DEPOSITS NORTH CENTRAL ONTARIO

Lake Superior

Legend





LITHOLOGY

Proterozoic

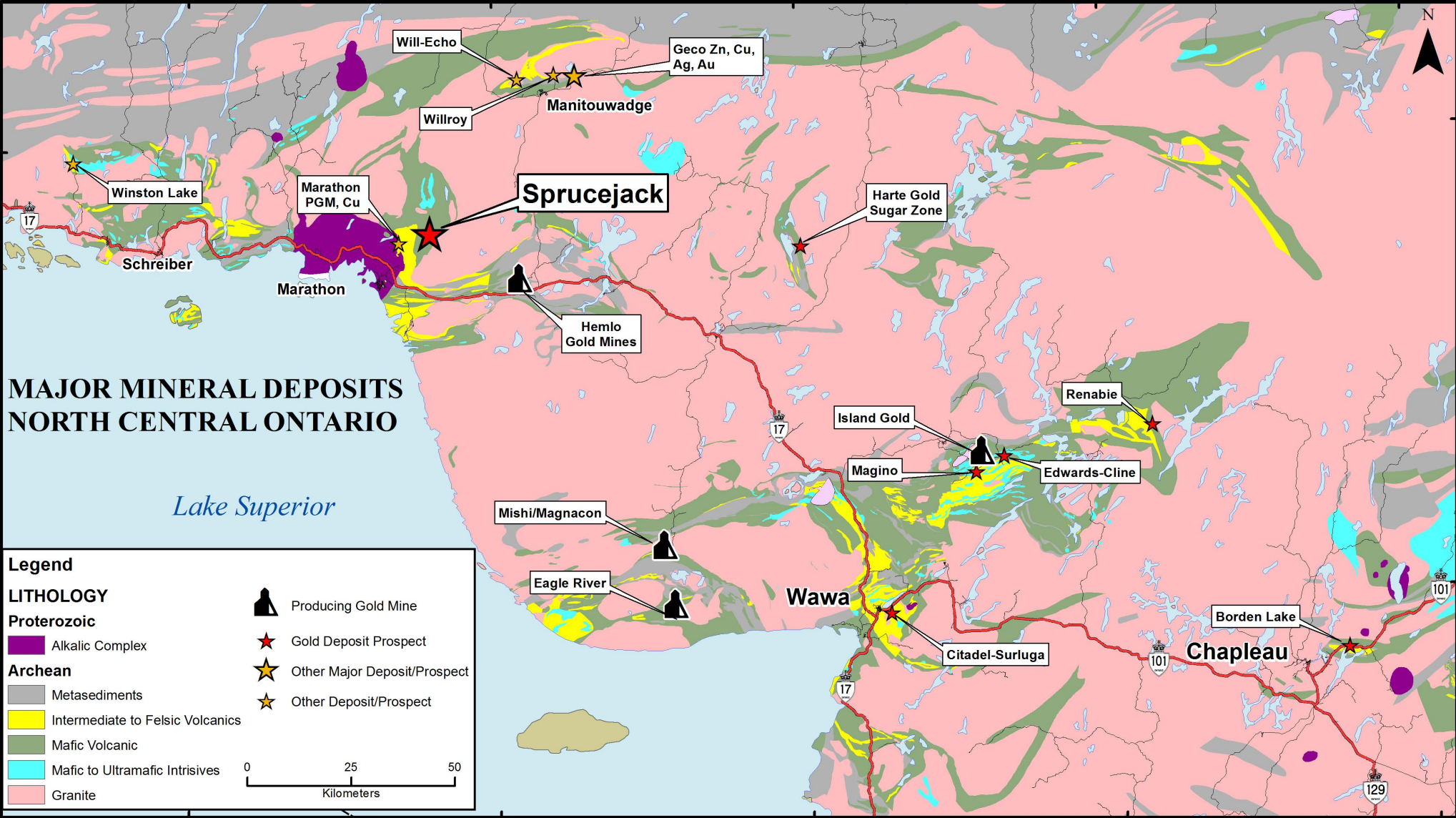
- Alkalic Complex

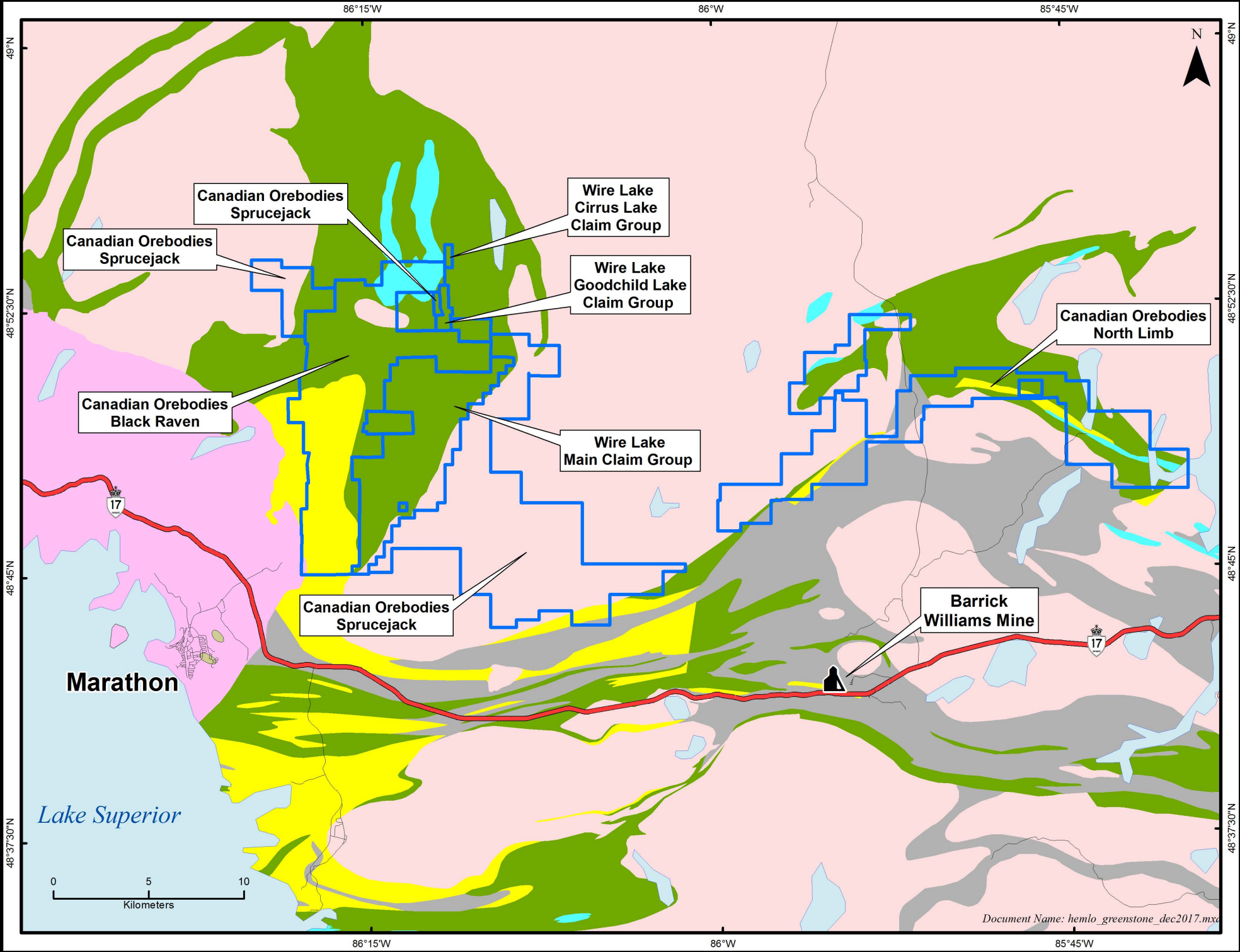
Archean

- Metasediments
- Intermediate to Felsic Volcanics
- Mafic Volcanic
- Mafic to Ultramafic Intrusives
- Granite

 Producing Gold Mine
 Gold Deposit Prospect
 Other Major Deposit/Prospect
 Other Deposit/Prospect

0 25 50
 Kilometers





4.0 - EXPLORATION HISTORY -

4.1 SPRUCEJACK CLAIMS

Prior to Canadian Orebodies involvement, the Sprucejack Claim Group has been little explored. Much of the historical work in the area has focused in the Smoke Lake area in the vicinity of the high-grade Super G showing, located on the north shore of Smoke Lake as well as the Wire Lake area.

4.2 DETAILED DESCRIPTION OF HISTORICAL WORK

There is very little historical exploration history on the Sprucejack Claim Group.

1930 and 1931: J.E. Thomson of the Ontario Department of Mines completed reconnaissance mapping over a large area including the Cirrus Lobe. He noted the presence of a pit located a short distance south of Cawanogami Lake within the northeastern corner of the present property. No record of who excavated the pit is within the public record.

1959: The Mining Corporation of Canada contracted an airborne magnetometer and EM survey over the Goodchild Lake-Pic River area.

1983: Golden Rule Resources Ltd. and Lacana Mining Corporation completed an Airborne Magnetic and VLF-EM Survey.

1984: MPH Consulting Limited completed an Airborne Magnetic and VLF-EM Survey by Aerodat Limited.

1988: Black Gregor Explorations Ltd. completed an Airborne Magnetic and VLF-EM Survey for Black Gregor Explorations Ltd.

1989: Noranda Exploration Co. Ltd. Completed a detailed, helicopter-borne Dighem EM and magnetometer survey over a large area encompassing the eastern Schreiber-Hemlo greenstone belt, including the Cirrus Lobe.

1991 to 1993: D.B. McKay of the Ontario Geological Survey examined, sampled, described, and sometimes mapped 71 mineral occurrences, and researched and compiled a further 18 occurrences within a 50-km radius of the town of Manitouwadge (McKay 1994).

2016: Canadian Orebodies carried out prospecting southeast of Wire Lake (MacLachlan 2016).

5.0 - 2017 EXPLORATION PROGRAM -

5.1 INTRODUCTION

Between June 2nd and October 12th, 2017, a prospecting program was carried out on the Sprucejack Property located approximately 20 kilometres north of the town of Marathon, approximately 40 kilometres southwest of the town of Manitouwadge and 30 kilometres northwest of the Hemlo Mine Site.

Prospecting was carried out by two crews, one based out of the company's base camp as well as a small "fly-camp" located immediately north of Contact Lake (Beggs Crew), the other based at the company's Wire Lake camp (Wire Crew). Prospecting was carried out at several locations targeting prospective geology and alteration, structural features identified from magnetic surveys and topographical features, and plain old "gut feelings".

All the work and sample locations were defined using a handheld Garmin GPS. The measurements were plotted using UTM: NAD 83 in Zone 16 metric coordinates. All foot traverses are collected by GPS, saved as separate files and plotted on the various Figures.

A total of 135 samples were collected and analyzed for gold. Samples collected were individually bagged and labeled; individually bagged samples were then put into rice bags for shipping to ALS Laboratories in Thunder Bay or Activation Labs (Actlabs) in Thunder Bay.

The Sample Description Table is presented in Table II, Appendix I, and Assay Certificates are located in Appendix II. Map Sheets 1 – 10 display the locations of the grab samples in relation to the claim boundaries.

5.2 DISCUSSION OF RESULTS – BEGGS CREW

Prospecting by Bruce MacLachlan and Coleman Robertson was initially based out of the company's base camp located at Wire Lake and was carried out along a southeast trending structure immediately south of the Wire Lake camp.

Later in the fall prospecting was carried out from a fly-camp situated approximately 560 metres north of Contact Lake, which is in the north-eastern portion of the Sprucejack claim group. Helicopter support was derived from Expedition Camp Services and Logistics based at the Wire Lake Camp, see Figure 2.

Approximately 9 days were spent prospecting in the Contact Lake area. see Map Sheets 4 – 7.

The Contact Lake Prospecting program was carried out to look for areas of mineralization and alteration where the interpreted Beggs Lake Fault would transect the volcanic-granite contact as well as prospect a magnetic feature southeast of Contact Lake.

Prospecting southeast of Contact led to the discovery of a new gold Occurrence (Contact Occurrence). Gold values up to 11.9gpt were returned from quartz samples.

- Contact Lake Occurrence

Quartz veining was located along the north side of a small stream approximately 400 metres southeast of the southeast shore of Contact Lake. The quartz veins appear to be hosted by mafic rocks, possibly some sort of mafic intrusive body which appears to be surrounded by granite. The mafic rocks can be seen in the regional magnetics which shows a distinct high magnetic feature.

Seven samples were collected along the north face of the small creek (samples A374820-A374826). All seven samples consisted of sugary – glassy quartz, some with mafic wall rock fragments, trace pyrite, trace chalcopyrite and possible galena. Gold grades from sampling at the Contact Lake Occurrence range between 91 – 11,900 ppb, see Map Sheet 4.

Other anomalous samples/areas of note:

- North Contact Lake Occurrence

Located approximately 270 metres north of Contact Lake and returned gold grades between 22 & 112 ppb (samples A374839, A374840 & A374841), see Map Sheet 7.

Other significant zones of alteration and/or veining (not anomalous):

- North of Contact Lake

Quartz veining up to 1.0 metres wide was observed approximately 100 metres northeast of the north shore of Contact Lake, see Map Sheet 7.

Other weakly anomalous samples returned from the current program:

- Sample A374868

A rusty moderately sheared, silicified mafic volcanic containing up to 5% pyrite was located approximately 225 metres northeast of the northeast shore of Contact Lake and returned 54ppb Au (sample A374868), see Map Sheet 5.

Other results from the current program:

Prospecting was carried out approximately 650 metres east of the east shore of Contact Lake where the interpreted Beggs Lake Fault would transect the volcanic-granite contact. Weakly sheared mafic volcanics and granitic outcrops were observed along a north-northwest trending stream, see Map Sheet 5.

Prospecting was carried out immediately southeast of Wire Lake along an interpreted southeast trending structure over a length of approximately 5.7 kilometres. Rock types observed along the interpreted structure include gabbros in the more northwest portion of the interpreted fault and granite in the southeast.

Gabbroic rocks were found to contain minor to locally strong potassic alteration, weak epidote and locally up to 3% pyrite and locally trace – 1% chalcopyrite. Quartz stockwork veins up to 5cm wide, along with strong potassic alteration, brecciation and up to 1% chalcopyrite was observed in large up to (60 x 70cm) angular boulders on a north facing cliff face, on the south side of the interpreted fault, (samples W072134 – W072137), see Map Sheets 1 - 2.

Discussion of Beggs Crew Results

The promising results from the 2017 prospecting program at Contact Lake, show potential for additional fault/shear zone-hosted quartz vein Au mineralization in the area including “Bull’s Eye” magnetic high features.

The alteration, mineralization and quartz stockwork observed along the interpreted southeast trending fault southeast of Wire Lake remains a valid exploration target, including any parallel fault/structures.

5.3 DISCUSSION OF RESULTS – WIRE CREW

Prospecting was carried out by Stephen MacConnell, Henry Hutteri, David Gracia, Doug Kakeeway, and Valantino Demoulin between July 31st and September 18th, 2017 based out of the company’s base camp located at Wire Lake.

Prospecting was initially carried out in the Spruce Top Lake and Veronica Lake areas near the granite-volcanic contact; later in September a couple of days were spent prospecting in the northeast portion of the Sprucejack claim group, approximately 600 metres north of the north end of Fallen Lake.

- Sprucetop Lake

Prospecting was carried out along the west shore of Sprucetop Lake, where medium grained pinkish granites were observed, see Map Sheet 2.

- Veronica Lake

Approximately 2.2 kilometres northeast of Veronica Lake potassically altered granite was observed (sample A390819) along the interpreted southeast trending Fallen Lake Fault. Approximately 240 metres further east, weakly foliated granodiorites were observed (sample A390818), see Map Sheet 3.

- North Fallen Lake

Prospecting was carried out near the interpreted southeast trending Beggs Lake fault, approximately 1.8 kilometres northwest of the north end of Contact Lake. Sheared mafic volcanic outcrops along with quartz veins and pyrite were observed over an area of approximately 350 metres where the interpreted Beggs Lake Fault transects the northeast trending magnetic features, see Map Sheet 8.

6.0 - CONCLUSIONS AND RECOMMENDATIONS -

The highly anomalous gold values returned from sampling southeast of Contact Lake clearly demonstrates the potential of locating new gold discoveries in the area.

Recommendations are as follows:

- A high resolution magnetic survey to better define contrasting rock units and intersecting structures.
- Further prospecting should be carried out in the immediate area of the new Contact Lake gold discovery.
- Further prospecting should be carried out along the interpreted Beggs Lake Fault as well as any parallel faults and structures.
- A soil-sampling program is recommended near the new Contact Lake gold discovery.

7.0 – STATEMENT OF QUALIFICATIONS -

I, Bruce A. MacLachlan P. Geo (Limited), residing at 222 Emerald St., Timmins, Ontario, do hereby certify that:

- 1) Canadian Orebodies Inc. currently contracts me as a consulting Geological Technician and Prospector.
- 2) I am a P. Geo (Limited), registered in the province of Ontario (APGO No. 1025).
- 3) I have continuously practiced my profession as a Geological Technician and Prospector for over 34 years. I have prepared reports, conducted, supervised and managed exploration programs for a number of major and junior mining companies including Noranda Exploration Company Limited, CanAlaska Uranium Ltd., Noront Resources Ltd. and Bold Ventures Inc.
- 4) I am responsible for the preparation of this report titled ‘Work Report of the Summer 2017 Exploration Program on the Sprucejack Claim Group, Hemlo, Ontario.’
- 5) I have been involved with the mineral Property that forms the subject of this report since Canadian Orebodies acquired the property in 2016.

Dated at Timmins, Ontario, this 24th day of December 2017.

‘Bruce A. MacLachlan’ P. Geo (Limited) APGO No. 1025
(Signed and Sealed)

Bruce A. MacLachlan
2099840 Ontario Inc.
‘Emerald Geological Services’

8.0 - REFERENCES-

Labrecque, J.A. 2011. Work Assessment Report for the Black Raven Project, Goodchild Lake and Cirrus Lake Areas, Thunder Bay District, Ontario, NTS 42D/16NE, SE, NW and SW.

MacConnell, S. and Mackie, B.W. 2017. Work Report of the 2017 Summer Exploration Program Including a Drilling Program on the Wire Lake Project, Hemlo Area, Ontario for Canadian Orebodies, NTS Map Sheets 42/C12, 42/C13, 42/D09, 42/D16.

McKay, D.B. 1994. Mineral Occurrences in the Manitouwadge Area, Volumes 1-3; Ontario Geological Survey, Open File Report 5906, p. 229-238.

MacLachlan, B. and MacConnell, S. 2017. Work Report of the 2017 Summer Exploration Program on the Black Raven Project, Hemlo Area, Ontario for Canadian Orebodies, NTS Map Sheets 42/D16.

Milne, V.G. 1967. Geology of the Cirrus Lake Bamooos Area; Ontario Geological Survey Report 218, 89p.

Williams, H.R. Stott, G.M., Heather, K.B., Muir, T.L. and Sage, R.P. 1991. Wawa Subprovince; in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part al, p. 485-539

APPENDIX – I

Table II		Rock Sample Description Table													
Sample	Easting	Northing	Elev	Sampler	Date	Project	Claim	Type	Rock Type	Description	Lab_Certificate	Au_ppb	Au_ppm	Au_check	Au_ppb_final
A374803	561803	5412400	389.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized quartz, yellow to grey in colour with dark grey bands. Angular 0.1m by 0.1m boulder in beaver stream bed	A17-10675	20		0	20
A374804	561813	5412386	394.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Quartz vein in silicified mafic volcanic, quartz is sugary yellow-orange to grey with mafic bands/fragments within. 1% pyrite overall. Up to 10cm of pervasive veining in outcrop	A17-10675	10		0	10
A374805	561812	5412385	394.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab	Quartz Vein	10cm of recrystallized, white to orange-red quartz with mafic bands and fragments	A17-10675	< 5		0	5
A374806	561811	5412388	388.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab	Quartz Vein	1-2cm recrystallized Quartz vein in silicified mafic volcanics. Quartz is sugary grey-white with orange-brown tinge in places	A17-10675	< 5		0	5
A374807	561860	5411986	382.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Somewhat recrystallized ~5cm white-grey Quartz vein in rusty mafic volcanics. Both vein and wall rock have trace pyrite. Angular talus	A17-10675	< 5		0	5
A374808	561862	5411999	386.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Rusty mafic volcanic with weak shearing, moderate-strong pyrite on fracture planes but trace overall. Some quartz vugs. Angular 0.1 by 0.1m boulder	A17-10675	< 5		0	5
A374809	561864	5411984	386.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized yellow-white quartz with numerous dark (mafic?) bands, trace pyrite. Weak-moderate white mica. Talus	A17-10675	9		0	9
A374810	561863	5411984	385.5	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized yellow-white quartz with numerous dark (mafic?) bands, trace pyrite. Talus	A17-10675	< 5		0	5
A374811	561862	5411984	385.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized white-grey quartz with local yellow tinge, numerous dark (mafic?) bands, trace pyrite. Talus	A17-10675	< 5		0	5
A374812	561861	5411983.5	384.5	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized white-grey quartz with local yellow tinge. Talus	A17-10675	< 5		0	5
A374813	561860.5	5411983	384.5	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Mafic volcanic with 1-2cm recrystallized, white-grey quartz vein, also some light-dark banding and trace-1% pyrite within MV. Talus	A17-10675	< 5		0	5
A374814	561869	5411988	386.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized, white-grey to yellow quartz as vug (?) in rusty mafic volcanic. Talus	A17-10675	< 5		0	5
A374815	561869	5411986	386.0	BM/CR	19-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Recrystallized, white-grey to yellow quartz as vug (?) in rusty mafic volcanic, some banding. Talus	A17-10675	< 5		0	5
A374816	561990	5411751	370.0	BM/CR	20-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Pervasively rusty, weakly silicified mafic volcanic, 5% pyrite, finely disseminated or in blobs and stringers. Frost heave boulder/talus	A17-10675	< 5		0	5
A374817	561989.5	5411751	370.0	BM/CR	20-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Pervasively rusty, weakly silicified mafic volcanic with moderate recrystallized quartz veining and 3-4% pyrite overall, more within the MV. Quartz is sugary white-grey to orange. Frost heave boulder/talus near previous sample	A17-10675	< 5		0	5
A374818	561996	5411733	370.9	BM/CR	20-09-2017	Sprucejack	4284849	Grab	Quartz Vein	~10cm wide, glassy grey-white to beige quartz vein with trace pyrite. Vein strikes at 90 degrees and dips 54 degrees to the south	A17-10675	< 5		0	5
A374820	562821	5410711	338.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab-float	Quartz Vein	Quartz vein in NE stream, close to where stream curves to the North. Veining in outcrop is up to 20 cm wide. This sample has sugary grey-white quartz with some mafic bands and wall rock, 1% pyrite present mainly in the mafic rock	A17-10675	91		0	91
A374821	562821	5410710	338.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab	Quartz Vein	Same outcrop as previous. Sugary to glassy white-grey quartz vein with minor mafic fragments/wall rock and trace pyrite	A17-10675	157		0	157
A374822	562821	5410710.2	339.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab	Quartz Vein	Same outcrop as previous. Sugary white-grey quartz with trace pyrite and some mafic wall rock	A17-10675	821		0	821
A374823	562821	5410709.7	338.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab	Quartz Vein	Same outcrop as previous. Sugary grey-white quartz vein with trace pyrite, present mainly in 0.7cm granite dikelet	A17-10675	3300		3.64	3640
A374824	562821.2	5410709.7	338.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab	Quartz Vein	Same outcrop as previous. Sugary grey to white quartz with some mafic fragments/wall rock and granite dikelets. Trace-1% pyrite and trace-1% chalcopyrite, with possible galena specks	A17-10675	> 5000		11.9	11900
A374825	562822.5	5410709.7	338.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab	Quartz Vein	Same outcrop as previous. Sugary grey to white quartz vein with some mafic wall rock and trace pyrite and chalcopyrite	A17-10675	602		0	602
A374826	562822.5	5410709.2	338.0	BM/CR	20-09-2017	Sprucejack	4284044	Grab	Quartz Vein	Same outcrop as previous. Sugary grey-white quartz vein with mafic wall rock, trace pyrite and white mica present in the mafic rock	A17-10675	> 5000		5.52	5520
A374827	562016	5412080	368.0	BM/CR	20-09-2017	Sprucejack	4284849	Grab-Float	Iron Formation	Recrystallized, sugary grey-green quartz with massive 3-4mm magnetite bands. Bands have 10% pyrite, about 1% overall in rock. Possible iron formation. 0.5m by 0.4m frost heave boulder	A17-10675	6		0	6
A374829	558995	5413617	304.0	BM/CR	21-09-2017	Sprucejack	1247569	Grab	Quartz Vein	35-40cm thick (?) sub vertical, sugary to glassy, white-grey to yellow quartz vein in ultramafics, trace pyrite.	A17-10675	< 5		0	5
A374830	561897	5412241	387.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty, weakly silicified mafic volcanic, trace pyrite	A17-10675	5		0	5
A374831	561930	5412210	382.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty mafic volcanic, 1-2% finely disseminate pyrite	A17-10675	< 5		0	5
A374832	561935	5412197	382.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Rusty mafic volcanic with 1% blotchy pyrite. From medium sized (~40cm by 40cm) frost heave block	A17-10675	< 5		0	5
A374833	561935	5412197.5	382.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Glassy white quartz vein, trace pyrite in mafic volcanic wall rock. From 1.5m by 0.5m frost heave block which contains a 10-15cm Quartz Vein	A17-10675	< 5		0	5
A374834	561935	5412198	382.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Quartz Vein	Same block as previous, glassy white quartz vein with some mafic wall rock, trace pyrite in wall rock and margin of vein	A17-10675	< 5		0	5

A374835	561935	5412198.5	382.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Same block as previous, mafic volcanic with moderate quartz vein fragment. Trace pyrite overall and 1-2% on fracture plane between quartz and MV	A17-10675	< 5	0	5
A374836	561935	5412199	382.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Granite	Same block as previous, 2-5cm granite dike with some quartz and mafic wall rock. Trace pyrite, weak potassic alteration	A17-10675	< 5	0	5
A374837	561941	5412189	373.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Highly silicified, banded mafic volcanic, trace-1% present mostly in lighter bands	A17-10675	5	0	5
A374838	561945	5412185	378.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Weakly sheared, rusty, weakly silicified mafic volcanic with trace pyrite. Frost heave	A17-10675	5	0	5
A374839	561945	5412180	378.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Weakly-moderately sheared, rusty, silicified mafic volcanic. Frost heave	A17-10675	35	0	35
A374840	561943	5412157	381.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty, weakly silicified mafic volcanic with trace pyrite	A17-10675	112	0	112
A374841	561927	5412148	390.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Very rusty, silicified mafic volcanic. Banded and has trace-1% pyrite. Large frost heave block, probably from nearby outcrop	A17-10675	22	0	22
A374842	561932	5412137	388.0	BM/CR	22-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty mafic volcanic with 1cm sugary grey-white quartz vein, trace pyrite	A17-10675	< 5	0	5
A374843	562179	5411961	378.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Highly silicified, weakly sheared, moderately foliated mafic volcanics	A17-10675	16	0	16
A374844	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	3-4cm glassy to sugary white quartz vein in mafic volcanics, trace pyrite	A17-10675	< 5	0	5
A374845	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Same outcrop as previous. 3-4cm glassy to sugary white-grey to orange-red quartz vein, some hematite staining, trace pyrite	A17-10675	< 5	0	5
A374846	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Same outcrop as previous. Glassy white quartz vein in mafic volcanics, minor hematite staining	A17-10675	< 5	0	5
A374847	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Same outcrop as previous. Rusty, silicified mafic volcanics with moderate quartz veining, trace pyrite	A17-10675	< 5	0	5
A374848	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Same outcrop as previous. 3-4cm quartz vein in mafic volcanics, trace pyrite	A17-10675	< 5	0	5
A374849	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Same outcrop as previous. 1-3cm Quartz Vein in highly silicified, weakly sheared mafic volcanics, trace pyrite	A17-10675	< 5	0	5
A374850	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic Volcanics	Same outcrop as previous. Rusty, silicified, weakly-moderately sheared mafic volcanics, trace pyrite	A17-10675	< 5	0	5
A374856	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic Volcanic	Same outcrop as previous. Rusty, weakly sheared, weakly silicified mafic volcanics, 1% disseminated pyrite	A17-10675	< 5	0	5
A374857	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic Volcanic	Same outcrop as previous. Rusty, weakly silicified, weakly sheared mafic volcanics with 2-3cm glassy to sugary white quartz vein with minor hematite staining, 1% pyrite	A17-10675	< 5	0	5
A374858	562197	5411966	376.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic Volcanic	Same outcrop as previous. Rusty, weakly sheared, weakly silicified mafic volcanics, 1-2% pyrite	A17-10675	< 5	0	5
A374859	562229	5411963	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Large quartz block rotated off outcrop. Glassy to sugary white quartz with some mafic volcanic incorporated, orange-brown Fe-carb (?) in fractures	A17-10675	< 5	0	5
A374860	562229.3	5411963	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Same block as previous. Sugary to glassy white quartz with grey patches, some orange-brown rust (Fe-carb?)	A17-10675	< 5	0	5
A374861	562229.3	5411962.6	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Same block as previous. Somewhat rusty mafic volcanics on margin of quartz vein, with moderate quartz attached	A17-10675	< 5	0	5
A374862	562229.3	5411962.1	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Same block as previous. Weakly silicified, weakly sheared mafic volcanics, minor rust	A17-10675	< 5	0	5
A374863	562229.8	5411962.6	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Same block as previous. Glassy to sugary, white to grey quartz, some silicified mafic volcanic fragments	A17-10675	< 5	0	5
A374864	562231.8	5411963.6	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Weakly-moderately sheared mafic volcanics with moderate white-grey to orange quartz, sugary to glassy	A17-10675	< 5	0	5
A374865	562232.8	5411963.1	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Quartz Vein	Sugary to glassy grey-white quartz with some weak-moderately sheared mafic volcanics	A17-10675	< 5	0	5
A374866	562233	5411968	390.0	BM/CR	23-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Weakly to moderately sheared mafic volcanics with minor quartz veining	A17-10675	< 5	0	5
A374867	562216	5412032	391.0	BM/CR	24-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty, weakly sheared mafic volcanic, 2-3% pyrite, often in elongate blobs, minor quartz stringers	A17-10675	< 5	0	5
A374868	562284	5412080	397.0	BM/CR	24-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty, moderately sheared, moderately foliated, silicified mafic volcanic with 1-5% pyrite	A17-10675	54	0	54
A374869	562843	5411685	339.0	BM/CR	25-09-2017	Sprucejack	4284849	Grab-float	Granite	Silicified, weakly sheared granite boulder with trace pyrite and a quartz stringer. Angular 15cm by 10cm boulder in streambed	A17-10675	< 5	0	5
A374870	562618	5412051	346.0	BM/CR	25-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Grey-green, somewhat rusty, moderately sheared, moderately foliated mafic volcanic with trace-1% pyrite and minor quartz-carb alteration. Angular 15cm by 15cm boulder, possibly close to being in place	A17-10675	< 5	0	5
A374871	562581	5412044	348.0	BM/CR	25-09-2017	Sprucejack	4284849	Grab	Quartz Vein	3-4cm Quartz Vein in weakly sheared mafic volcanics, shallow vein dipping roughly to SW on cliff face. Cliff face is oriented 124 degrees	A17-10675	< 5	0	5
A374872	562830	5411805	333.6	BM/CR	25-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Weakly sheared, weakly-moderately silicified, moderately foliated mafic volcanics with trace pyrite and x-cutting k-spar dikes up to 3-4cm thick. Subangular to angular 0.3 by 0.2m boulder	A17-10675	< 5	0	5
A374875	561585	5412370	395.0	BM/CR	27-09-2017	Sprucejack	4284849	Grab-float	Mafic volcanic	Rusty mafic volcanic with 0.5cm quartz stringer, trace pyrite and trace chalcopyrite. Talus boulder	A17-11041	< 5	0	5
A374876	561598	5412288	396.0	BM/CR	27-09-2017	Sprucejack	4284849	Grab	Mafic volcanic	Rusty mafic volcanic with 0.5cm quartz-carb stringer, trace pyrite and chalcopyrite on fracture planes	A17-11041	< 5	0	5

A390816	561116	5407387	370.2	HH/VD	04-09-2017	Sprucejack	4284048	Grab	Mafic volcanic	Weakly granitized mafic within granodiorite east of Veronica L lineament in granites	A17-09704	< 5	0	5
A390817	561334	5407388	378.0	HH/VD	04-09-2017	Sprucejack	4284048	Grab	Granodiorite	Massive granodiorite east of Veronica L lineament in granites	A17-09704	< 5	0	5
A390818	562270	5409406	344.2	HH/VD	05-09-2017	Sprucejack	4284045	Grab	Granodiorite	Weakly foliated granodiorite along Fallen Lake ESE lineament in granites to east	A17-09849	< 5	0	5
A390819	562024	5409367	338.8	HH/VD	05-09-2017	Sprucejack	4284045	Grab	Granite	Red kspar-rich massive granite along Fallen L lineament into granites	A17-09849	< 5	0	5
A581541	560527	5412748	321.0	SM	14-09-2017	Sprucejack	4284848	Grab	Quartz Carbonate Vein	Quartz carbonate veins, light white pink, 1-5cm, crystalline veins sharp but irregular contacts in mafic volcanic.	A17-11702	< 5	0	5
A581542	560599	5412723	326.0	SM	14-09-2017	Sprucejack	4284848	Grab	Quartz Carbonate Vein	Quartz carbonate veins, light white pink, 1-5cm, crystalline veins sharp but irregular contacts in mafic volcanic. 2-3% fine grained disseminated pyrite.	A17-11702	< 5	0	5
A581543	560532	5412436	339.0	SM	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volcanic with minor Quartz Veins, dark black fine grained, massive with weak jointing at 110 degrees. Irregular light white grey quartz veins up to 7cm with 1-3% coarse grained pyrite cubes as fracture fill.	A17-11702	5	0	5
A581544	560673	5412337	325.0	SM	18-09-2017	Sprucejack	4284848	Grab	Ultramafic	Mafic to ultra mafic, dark black, fine grained, massive to weakly jointed at 112 degrees. Occasional patches of dark red garnets up to 5mm.	A17-11702	< 5	0	5
A581545	560591	5412239	330.0	SM	18-09-2017	Sprucejack	4284848	Grab	Ultramafic	Mafic to ultra mafic, dark black, fine grained, massive to weakly jointed at 112 degrees. Occasional 1-3cm light white grey quartz veins. Occasional patches of dark red garnets up to 5mm.	A17-11702	< 5	0	5
A581546	560569	5412197	344.0	SM	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volcanic, dark black grey fine grained massive with 3-5% fine grained disseminated pyrite.	A17-11702	< 5	0	5
A581547	560451	5412278	353.0	SM	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volcanic, dark black grey fine grained moderately sheared at 320/40 degrees. Locally brecciated with quartz +/- potassium alteration. Trace fine grained disseminated pyrite.	A17-11702	< 5	0	5
A581554	558070	5403286	306.0	DK/KT	28-08-2017	Sprucejack	4279896	Grab	Quartz Vein	Quartz Vein in granite, medium white grey 20-30cm, crystalline massive with weak in situ brecciation, sharp but irregular contacts. Trace to 1% fine grained pyrite along margins.	A17-09704	21	0	21
A581563	557833	5402084	299.0	DK/TM	31-07-2017	Sprucejack	4285593	Grab	Granite	Mg pinkish granitoid	A17-11114	6	0	6
A581564	557846	5401839	300.0	DK/TM	31-07-2017	Sprucejack	4285593	Grab	Granite	Mg pinkish granitoid	A17-11114	< 5	0	5
A581601	560480	5412670	321.7	DG/VD	14-09-2017	Sprucejack	4284848	Grab	Quartz Vein	5cm qv with diss m-cg Py within and at the selvages, mafic volc host angular boulder	A17-11702	6	0	6
A581602	560481	5412644	322.1	DG/VD	14-09-2017	Sprucejack	4284848	Grab	Quartz Vein	Mm-scale stringers with minor amounts of diss mg Py within mafic volc host	A17-11702	< 5	0	5
A581603	560476	5412630	325.6	DG/VD	14-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mod-str rust (cab, Py), mod-str shearing (~NE-SW), ~3% fg diss Py, mafic volc/sed?	A17-11702	6	0	6
A581604	560469	5412615	325.6	DG/VD	14-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mod-str shear at ~N-S, mod-str rust (cab, Py?), minor amounts of quartz stringers, mafic volc/seds?	A17-11702	< 5	0	5
A581605	560460	5412593	328.4	DG/VD	14-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Sheared at ~N-S trend, mod-str rust (cab, Py?), mafic volc/seds?	A17-11702	< 5	0	5
A581606	560469	5412587	328.4	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volcanic, minor strs trending N-S, minor amounts of Py, weak-mod bio and sil alt	A17-11702	< 5	0	5
A581607	560480	5412574	327.7	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Quartz Vein	4cm qv, 1% Py, mod rust in mv, fol and str cross-cutting at high angle in an angular boulder	A17-11702	< 5	0	5
A581608	560484	5412569	327.7	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Quartz Vein	20-3cm qv mg sugary, no sulphides, mod shear mv host, angular boulder	A17-11702	< 5	0	5
A581609	560478	5412573	327.7	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volc, 1-2% f-mg diss Py, minor qs, rubble sample	A17-11702	< 5	0	5
A581610	560471	5412538	330.9	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volc, few vertical qs trending E-W, tr Py, weak-mod bio alt, garnet crystals	A17-11702	< 5	0	5
A581611	560495	5412498	339.8	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Mafic volc, 1-2% c-mg diss Py blebs, weak shearing, subcrop sample	A17-11702	< 5	0	5
A581612	560520	5412458	336.2	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Str shearing dipping at 40 deg, str bio and chl alt, mod rust, <1% diss Py, few qs in N-S trend	A17-11702	10	0	10
A581613	560512	5412439	342.4	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Str shearing dipping at 40 deg, str bio and chl alt, mod rust	A17-11702	< 5	0	5
A581614	560518	5412408	340.4	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Mafic volcanic	Str rust, partly sheared, Py str, minor qs	A17-11702	8	0	8
A581615	560523	5412403	341.9	DG/VD	18-09-2017	Sprucejack	4284848	Grab	Quartz Vein	10cm qv, tr Py, unaltered mafic volc host	A17-11702	< 5	0	5
W072111	559691	5403031	336.2	BM/CR	13-06-2017	Sprucejack	4279895	Grab	Gabbro	Possible gabbro, med-grained, dark grey, some carb alteration, trace py	TB17121812	<0.005	0	5
W072112	559665	5402977	331.0	BM/CR	13-06-2017	Sprucejack	4279895	Grab	Gabbro	Dark grey-green, med-grained gabbro, 1% pyrite, weak carb alteration	TB17121812	<0.005	0	5
W072114	559272	5402825	361.5	BM/CR	13-06-2017	Sprucejack	4279895	Grab	Gabbro	Med-grained, dark grey gabbro, some carb alteration, epidote, potassic alteration in stringers (minor), 1% pyrite, magnetic	TB17121812	<0.005	0	5
W072115	559211	5402803	363.0	BM/CR	13-06-2017	Sprucejack	4279895	Grab	Gabbro	Diabase/gabbro near contact	TB17121812	<0.005	0	5
W072116	559194	5402824	363.0	BM/CR	13-06-2017	Sprucejack	4279895	Grab	Gabbro	Gabbro, minor carb/epi alteration, trace pyrite	TB17121812	<0.005	0	5
W072117	559130	5402893	362.0	BM/CR	13-06-2017	Sprucejack	4279895	Grab	Gabbro	Dark grey, med-grained gabbro, trace sulphides	TB17121812	<0.005	0	5
W072119	559787	5402250	332.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab-Float	Ultramafic	Very dark mafic rock, 2-3% patchy pyrite, close to ultramafic (?). Minor carb alteration, angular float (30 by 30 cm)	TB17125031	<0.005	0	5
W072120	559778	5402257	330.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Gabbro	Dark grey gabbro, 2-3% pyrite, minor carb alteration, some epidote, minor potassic alteration	TB17125031	<0.005	0	5
W072121	559777	5402255	330.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Gabbro	Dark grey gabbro, 2-3% pyrite, minor carb alteration, some epidote, minor potassic alteration	TB17125031	<0.005	0	5
W072122	559777	5402253	330.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Gabbro	Dark grey gabbro, 2-3% pyrite, minor carb alteration, some epidote, minor potassic alteration	TB17125031	<0.005	0	5
W072123	559777	5402249	329.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Gabbro	Dark grey gabbro, 2-3% pyrite, minor carb alteration, some epidote, minor potassic alteration	TB17125031	<0.005	0	5

W072124	559775	5402241	328.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Gabbro	Highly epidote and potassium altered dark grey gabbro, 2-3% pyrite. Alteration in matrix and stringers; moderate-numerous stringers. Possibly 1% bornite, 1% chalcocopyrite	TB17125031	<0.005	0	5
W072125	559771	5402235	325.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab-Float	Mafic volcanic	Highly potassium/epidote altered angular float (30 cm by 30 cm), 2m north of an MV float. Protolith unknown	TB17125031	<0.005	0	5
W072126	559771	5402219	325.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab-Float	Granite	Highly quartz altered rock, smoky in places, high potassic alteration, some epidote stringers, original possibly granite. Angular float (30 cm by 30 cm)	TB17125031	<0.005	0	5
W072127	559775	5402202	325.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Granite	Highly quartz/potassium altered rock, minor epidote, possibly granite. Veins/fractures trending dominantly 140 degrees, 110 degrees less commonly. The 110 trending veins came first, broken up slightly by the 140 trending veins. Grey-green, soft, weak-moderate potassium-altered mafic volcanic, moderate quartz stringers	TB17125031	<0.005	0	5
W072128	559782	5402183	326.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Mafic volcanic	Granite outcrop with high potassic, moderate epidote alteration	TB17125031	<0.005	0	5
W072129	559878	5402226	341.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Granite	Gabbro, 1% pyrite. Minor quartz-cal stringers	TB17125031	<0.005	0	5
W072130	559892	5402351	336.0	BM/CR	16-06-2017	Sprucejack	4279895	Grab	Gabbro	very dark mafic rock, med-grained, possibly gabbro or pyroxenite, minor potassic alteration, moderate potassic veining, angular float, 1m by 2m	TB17125031	<0.005	0	5
W072131	560522	5401518	235.0	BM/CR	17-06-2017	Sprucejack	4285594	Grab-Float	Ultramafic	Strong potassic veining through dark med-grained gabbro/pyroxenite, veins brecciated, contain trace-1% chalcocopyrite and pyrite. quartz and white-grey opaque mineral present, possibly albite	TB17125031	<0.005	0	5
W072132	560520	5401553	235.0	BM/CR	17-06-2017	Sprucejack	4285594	Grab	Gabbro	Strong potassic veining through dark med-grained gabbro/pyroxenite, veins brecciated, contain trace-1% chalcocopyrite and pyrite. quartz and white-grey opaque mineral present, possibly albite	TB17125031	<0.005	0	5
W072133	560520	5401553	235.0	BM/CR	17-06-2017	Sprucejack	4285594	Grab	Gabbro	Angular, potassic-altered granite boulder with quartz stockwork, trace pyrite. Boulder approximately 50 cm by 40 cm.	TB17125031	<0.005	0	5
W072134	561584	5401706	281.0	BM/CR	17-06-2017	Sprucejack	4285595	Grab-Float	Granite	Angular, potassic-altered granite boulder with quartz stockwork, trace pyrite. Boulder approximately 60 cm by 70 cm, veins up to 5cm	TB17125031	<0.005	0	5
W072135	561589	5401710	281.0	BM/CR	17-06-2017	Sprucejack	4285595	Grab-Float	Granite	>50% quartz boulder (angular, ~50cm by 30cm), pervasive stockwork, 1% chalcocopyrite, high potassic alteration, brecciated veins, elongated hard, non-magnetic black mineral in veins (tourmaline?). Veins brecciated	TB17125031	<0.005	0	5
W072136	561577	5401711	280.0	BM/CR	17-06-2017	Sprucejack	4285595	Grab-Float	Quartz Vein	Potassic-altered granite boulder with quartz stockwork, 40 cm by 40 cm	TB17125031	<0.005	0	5
W072137	561578	5401710	279.0	BM/CR	17-06-2017	Sprucejack	4285595	Grab-Float	Granite	Granite boulder with quartz stockwork (angular, 1.5m by 1.5m), minor cpy, 1-2% pyrite	TB17125031	<0.005	0	5
W072138	561693	5401606	303.0	BM/CR	17-06-2017	Sprucejack	4285595	Grab-Float	Granite	Potassic-altered granite with quartz stockwork, trace-1% pyrite in and near veins	TB17125031	<0.005	0	5
W072139	564419	5399957	344.0	BM/CR	18-06-2017	Sprucejack	4285600	Grab	Granite	Potassic-altered granite, some calcite and possibly hematite veining (blood red mineral)	TB17125031	<0.005	0	5
W072140	564532	5399985	344.0	BM/CR	18-06-2017	Sprucejack	4285600	Grab	Granite	Potassic-altered granite with moderate quartz veins, minor pyrite	TB17125031	<0.005	0	5
W072141	564481	5399883	341.0	BM/CR	18-06-2017	Sprucejack	4285600	Grab	Granite	Potassic-altered granite boulder (angular, 50 cm by 30 cm), epidote veins, 2-3% pyrite	TB17125031	<0.005	0	5
W072142	564378	5399996	340.0	BM/CR	18-06-2017	Sprucejack	4285600	Grab-Float	Granite	Quartz Vein, trace pyrite, minor tourmaline, minor potassic alteration, minor epidote alteration	TB17156153	<0.005	0	5
W072943	553176	5414978	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Quartz Vein	Med-grained, white-grey, quartz porphyry dike, local 1% pyrite	TB17156153	<0.005	0	5
W072944	553176	5414978	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Porphyry	Quartz Vein with mafic volcanic in moderate shear zone, 5% pyrite, 2-3 cm	TB17156153	<0.005	0	5
W072945	553171	5414979	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Quartz Vein	Quartz vein, grey-white, sugary-glassy, moderate tourmaline	TB17156153	<0.005	0	5
W072946	553171	5414979	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Quartz Vein	Small fold nose with banded quartz/mafic layers, 5-10% pyrite	TB17156153	<0.005	0	5
W072947	553171	5414977	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Mafic volcanic	Small fold nose with quartz/mafic layers, 5% pyrite, nearby fold has axis of ~040, dipping 70 deg N	TB17156153	<0.005	0	5
W072948	553171	5414976	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Mafic volcanic	Banded quartz (~70%) with mafic layers next to fold nose, minor pyrite	TB17156153	<0.005	0	5
W072949	553171	5414976	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Quartz Vein	Mostly Quartz Vein with some mafic wall rock. Sugary, grey-white, minor tourmaline	TB17156153	<0.005	0	5
W072950	553171	5414974	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Quartz Vein	Glassy white quartz vein	TB17156153	<0.005	0	5
W073251	553171	5414972	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Quartz Vein	quartz feldspar porphyry dike with 2cm Quartz Vein, vein has tourmaline, trace pyrite, minor epidote	TB17156153	<0.005	0	5
W073252	553171	5414975	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Porphyry	Rusty, moderately sheared, weakly schistose mafic volcanic, 1cm quartz vein	TB17156153	<0.005	0	5
W073253	553171	5414976	285.0	BM/CR	21-07-2017	Sprucejack	4284847	Grab	Mafic volcanic			<0.005	0	5

APPENDIX – II



Date Submitted: 06-Sep-17
Invoice No.: A17-09704
Invoice Date: 26-Sep-17
Your Reference: Wire Lake

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

121 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A17-09704**

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:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", 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
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A581551	< 5	
A581552	< 5	
A581553	< 5	
A581554	< 5	
A581555	5	
A581556	< 5	
A581557	< 5	
A581558	< 5	
A581559	< 5	
A581560	16	
A581561	98	
A581562	14	
A581563	166	
A581564	< 5	
A581565	< 5	
A581566	< 5	
A581567	< 5	
A581568	< 5	
A581569	< 5	
A581570	< 5	
A581571	< 5	
A581572	< 5	
A581573	< 5	
A581574	< 5	
A581575	< 5	
A581576	< 5	
A581577	< 5	
A581578	8	
A581579	10	
A581580	< 5	
A581581	7	
A581582	16	
A581583	< 5	
A581584	< 5	
A581585	< 5	
A581586	7	
A581587	19	
A581588	22	
A581589	< 5	
A581590	< 5	
A581591	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A581592	< 5	
A581593	6	
A581594	< 5	
A581651	< 5	
A581652	1100	
A581653	560	
A581654	79	
A581655	436	
A581656	8	
A581657	8	
A581658	592	
A581659	498	
A581660	9	
A581661	264	
A581662	12	
A581663	5	
A581664	> 5000	6.57
A581665	18	
A581666	< 5	
A390803	747	
A390804	< 5	
A390805	< 5	
A390806	6	
A390807	< 5	
A390808	19	
A390809	< 5	
A390810	< 5	
A390811	< 5	
A390812	< 5	
A390813	60	
A390814	20	
A390815	< 5	
A390816	< 5	
A390817	< 5	
A382751	6	
A382752	< 5	
A382753	5	
A382754	21	
A382755	< 5	
A382756	< 5	
A382757	< 5	
A382758	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A382759	9	
A382760	146	
A382761	9	
A382762	< 5	
A382763	15	
A382764	16	
A382765	15	
A382766	< 5	
A382767	< 5	
A382768	5	
A382769	27	
A382770	280	
A382771	50	
A382772	< 5	
A382773	25	
A382774	23	
A382775	< 5	
A382776	< 5	
A382777	128	
A382778	11	
A382779	8	
A382780	< 5	
A382781	< 5	
A382782	< 5	
A382783	< 5	
A382784	20	
A382785	< 5	
A382786	< 5	
A382787	< 5	
A382788	21	
A382789	17	
A382790	< 5	
A382791	128	
A382792	< 5	
A382793	10	
A382794	< 5	
A382795	< 5	
A382796	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
OREAS 214 Meas		3.02
OREAS 214 Cert		3.03
OREAS 216 (Fire Assay) Meas		6.71
OREAS 216 (Fire Assay) Cert		6.66
OREAS 223 (Fire Assay) Meas	1740	
OREAS 223 (Fire Assay) Cert	1780	
OREAS 223 (Fire Assay) Meas	1750	
OREAS 223 (Fire Assay) Cert	1780	
OREAS 223 (Fire Assay) Meas	1740	
OREAS 223 (Fire Assay) Cert	1780	
OREAS 223 (Fire Assay) Meas	1820	
OREAS 223 (Fire Assay) Cert	1780	
OREAS 218 Meas	542	
OREAS 218 Cert	531	
OREAS 218 Meas	505	
OREAS 218 Cert	531	
OREAS 218 Meas	534	
OREAS 218 Cert	531	
OREAS 218 Meas	534	
OREAS 218 Cert	531	
OREAS 220 (Fire Assay) Meas	825	
OREAS 220 (Fire Assay) Cert	828	
A581560 Orig	17	
A581560 Dup	15	
A581570 Orig	< 5	
A581570 Dup	< 5	
A581580 Orig	< 5	
A581580 Dup	< 5	
A581652 Orig	1080	
A581652 Dup	1120	
A581656 Orig	8	
A581656 Split	11	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
PREP DUP		
A581661 Orig	258	
A581661 Dup	270	
A390807 Orig	< 5	
A390807 Dup	< 5	
A382754 Orig	20	
A382754 Dup	22	
A382764 Orig	15	
A382764 Dup	16	
A382774 Orig	23	
A382774 Dup	22	
A382775 Orig	< 5	
A382775 Split PREP DUP	< 5	
A382788 Orig	10	
A382788 Dup	31	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02
Method Blank	< 5	



Date Submitted: 11-Sep-17
Invoice No.: A17-09849
Invoice Date: 27-Sep-17
Your Reference: Wire Lake

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

52 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A17-09849**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above 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
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A390818	< 5
A390819	< 5
A390820	24
A390821	24
A390822	115
A390823	170
A390824	38
A390825	1430
A390826	684
A390827	12
A390828	561
A390829	51
A390830	6
A390831	18
A390832	46
A390833	< 5
A390834	< 5
A390835	< 5
A390836	< 5
A390837	< 5
A390838	5
A390839	< 5
A390840	6
A581595	16
A581596	12
A581597	6
A581598	61
A581599	17
A581600	419
A581667	54
A581668	15
A581669	7
A581670	62
A581671	15
A581672	< 5
A581673	358
A581674	29
A581675	< 5
A581676	< 5
A581677	< 5
A581678	< 5
A581679	10

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A581680	< 5
A581681	< 5
A581682	< 5
A581683	< 5
A581684	< 5
A581685	7
A382797	195
A382798	72
A382799	7
A382800	789

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 223 (Fire Assay) Meas	1740
OREAS 223 (Fire Assay) Cert	1780
OREAS 223 (Fire Assay) Meas	1740
OREAS 223 (Fire Assay) Cert	1780
OREAS 220 (Fire Assay) Meas	849
OREAS 220 (Fire Assay) Cert	828
OREAS 220 (Fire Assay) Meas	831
OREAS 220 (Fire Assay) Cert	828
A390827 Orig	12
A390827 Dup	12
A390837 Orig	< 5
A390837 Dup	< 5
A581667 Orig	53
A581667 Dup	55
A581682 Orig	< 5
A581682 Dup	< 5
A382798 Orig	72
A382798 Split PREP DUP	82
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Date Submitted: 28-Sep-17
Invoice No.: A17-10675
Invoice Date: 19-Oct-17
Your Reference: Black Raven

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

65 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A17-10675**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé", 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
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A374803	20	
A374804	10	
A374805	< 5	
A374806	< 5	
A374807	< 5	
A374808	< 5	
A374809	9	
A374810	< 5	
A374811	< 5	
A374812	< 5	
A374813	< 5	
A374814	< 5	
A374815	< 5	
A374816	< 5	
A374817	< 5	
A374818	< 5	
A374819	10	
A374820	91	
A374821	157	
A374822	821	
A374823	3300	3.64
A374824	> 5000	11.9
A374825	602	
A374826	> 5000	5.52
A374827	6	
A374828	< 5	
A374829	< 5	
A374830	5	
A374831	< 5	
A374832	< 5	
A374833	< 5	
A374834	< 5	
A374835	< 5	
A374836	< 5	
A374837	5	
A374838	5	
A374839	35	
A374840	112	
A374841	22	
A374842	< 5	
A374843	16	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A374844	< 5	
A374845	< 5	
A374846	< 5	
A374847	< 5	
A374848	< 5	
A374849	< 5	
A374850	< 5	
A374856	< 5	
A374857	< 5	
A374858	< 5	
A374859	< 5	
A374860	< 5	
A374861	< 5	
A374862	< 5	
A374863	< 5	
A374864	< 5	
A374865	< 5	
A374866	< 5	
A374867	< 5	
A374868	54	
A374869	< 5	
A374870	< 5	
A374871	< 5	
A374872	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
OREAS 214 Meas		3.16
OREAS 214 Cert		3.03
OREAS 216 (Fire Assay) Meas		6.61
OREAS 216 (Fire Assay) Cert		6.66
OREAS 220 (Fire Assay) Meas	858	
OREAS 220 (Fire Assay) Cert	828	
OREAS 220 (Fire Assay) Meas	862	
OREAS 220 (Fire Assay) Cert	828	
OREAS 222(FIRE ASSAY) Meas	1220	
OREAS 222(FIRE ASSAY) Cert	1220	
OREAS 222(FIRE ASSAY) Meas	1240	
OREAS 222(FIRE ASSAY) Cert	1220	
A374812 Orig	< 5	
A374812 Dup	< 5	
A374822 Orig	772	
A374822 Dup	869	
A374823 Orig		3.50
A374823 Dup		3.79
A374832 Orig	< 5	
A374832 Dup	< 5	
A374847 Orig	< 5	
A374847 Dup	< 5	
A374857 Orig	< 5	
A374857 Split PREP DUP	< 5	
A374862 Orig	< 5	
A374862 Dup	< 5	
A374872 Orig	< 5	
A374872 Dup	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02



Date Submitted: 06-Oct-17
Invoice No.: A17-11041
Invoice Date: 24-Oct-17
Your Reference: Black Raven

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: Fraser Laschinger (inv)

CERTIFICATE OF ANALYSIS

66 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A17-11041**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with a large 'E' and 'E'.

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
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A374873	< 5
A374874	< 5
A374875	< 5
A374876	< 5
A374877	< 5
A374878	< 5
A374879	< 5
A374880	< 5
A374881	< 5
A374882	< 5
A374883	< 5
A374884	< 5
A374885	< 5
A374886	< 5
A374887	< 5
A374888	< 5
A374889	< 5
A374890	< 5
A374891	< 5
A374892	< 5
A374893	< 5
A374894	< 5
A374895	< 5
A374896	< 5
A374897	< 5
A374898	< 5
A374899	< 5
A374900	< 5
A374901	< 5
A374902	< 5
A374903	< 5
A374904	< 5
A374905	< 5
A374906	< 5
A374907	6
A374908	< 5
A374909	< 5
A374910	22
A374911	16
A374912	< 5
A374913	< 5
A374914	18

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A374915	10
A374916	15
A374917	22
A374918	26
A374919	< 5
A374920	< 5
A374921	< 5
A374922	< 5
A374923	< 5
A374924	< 5
A374925	< 5
A374926	< 5
A374927	< 5
A374928	< 5
A374929	< 5
A374930	< 5
A374931	< 5
A374932	5
A374933	< 5
A374934	< 5
A374935	< 5
A374937	< 5
A374938	< 5
A374939	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	861
OREAS 220 (Fire Assay) Cert	828
OREAS 222(FIRE ASSAY) Meas	1210
OREAS 222(FIRE ASSAY) Cert	1220
OREAS 222(FIRE ASSAY) Meas	1180
OREAS 222(FIRE ASSAY) Cert	1220
A374889 Orig	< 5
A374889 Dup	< 5
A374893 Orig	< 5
A374893 Dup	< 5
A374907 Orig	5
A374907 Dup	7
A374922 Orig	< 5
A374922 Split PREP DUP	< 5
A374924 Orig	< 5
A374924 Dup	< 5
A374928 Orig	< 5
A374928 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



Date Submitted: 10-Oct-17
Invoice No.: A17-11114
Invoice Date: 26-Oct-17
Your Reference: Wire Lake

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

49 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

Code 1A3-50-Tbay Au - Fire Assay Gravimetric (QOP Fire Assay Tbay)

REPORT **A17-11114**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke at the end.

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
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A581832	541	
A581833	549	
A581834	1970	
A581835	3650	3.63
A581836	650	
A581837	> 5000	6.56
A581838	> 5000	10.4
A581839	530	
A581840	258	
A581841	964	
A581842	15	
A581843	< 5	
A581844	10	
A581845	11	
A581846	23	
A581847	11	
A581848	7	
A581849	9	
A581850	5	
A581851	6	
A581852	< 5	
A581618	< 5	
A581619	10	
A581620	< 5	
A581621	< 5	
A581622	21	
A581623	22	
A581624	13	
A581625	13	
A581626	19	
A581627	33	
A581628	944	
A581629	7	
A581630	5	
A581631	< 5	
A581632	< 5	
A581633	< 5	
A581634	6	
A581635	< 5	
A581901	40	
A581902	6	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A581903	8	
A581904	17	
A581905	11	
A581906	12	
A390847	6	
A390848	6	
A390849	< 5	
A390850	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
OREAS 214 Meas		3.04
OREAS 214 Cert		3.03
OREAS 220 (Fire Assay) Meas	887	
OREAS 220 (Fire Assay) Cert	828	
OREAS 220 (Fire Assay) Meas	859	
OREAS 220 (Fire Assay) Cert	828	
OREAS 222(FIRE ASSAY) Meas	1290	
OREAS 222(FIRE ASSAY) Cert	1220	
OREAS 222(FIRE ASSAY) Meas	1270	
OREAS 222(FIRE ASSAY) Cert	1220	
A581835 Orig		3.72
A581835 Dup		3.53
A581841 Orig	955	
A581841 Dup	972	
A581851 Orig	6	
A581851 Dup	5	
A581626 Orig	21	
A581626 Dup	17	
A581906 Orig	11	
A581906 Dup	12	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02



Date Submitted: 20-Oct-17
Invoice No.: A17-11702
Invoice Date: 06-Nov-17
Your Reference: Wire Lake

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

135 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A17-11702**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with a large, looped initial "E" and a horizontal line extending to the right.

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
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A581541	< 5
A581542	< 5
A581543	5
A581544	< 5
A581545	< 5
A581546	< 5
A581547	< 5
A581548	< 5
A581549	< 5
A581550	< 5
A581601	6
A581602	< 5
A581603	6
A581604	< 5
A581605	< 5
A581606	< 5
A581607	< 5
A581608	< 5
A581609	< 5
A581610	< 5
A581611	< 5
A581612	10
A581613	< 5
A581614	8
A581615	< 5
A581616	< 5
A581617	< 5
A581686	< 5
A581687	< 5
A581688	< 5
A581689	16
A581690	72
A581691	5
A581692	6
A581693	< 5
A581694	12
A581695	6
A581696	7
A581697	< 5
A581698	< 5
A581699	< 5
A581700	14

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A581701	< 5
A581702	< 5
A581703	< 5
A581704	< 5
A581705	< 5
A581706	< 5
A581751	< 5
A581752	6
A581753	372
A581754	< 5
A581755	50
A581756	150
A581757	12
A581758	26
A581759	< 5
A581760	< 5
A581761	21
A581762	< 5
A581763	8
A581764	< 5
A581765	7
A581766	< 5
A581767	52
A581768	423
A581769	20
A581770	18
A581771	15
A581772	79
A581773	17
A581774	6
A581775	18
A581776	11
A581777	24
A581778	14
A581779	34
A581780	6
A581781	< 5
A581782	< 5
A581783	< 5
A581784	< 5
A581785	< 5
A581786	< 5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A581787	< 5
A581788	< 5
A581789	25
A581790	< 5
A581791	< 5
A581792	< 5
A581793	< 5
A581794	9
A581795	22
A581796	< 5
A581797	65
A581798	130
A581799	867
A581800	86
A581801	< 5
A581802	41
A581803	< 5
A581804	< 5
A581805	< 5
A581806	< 5
A581807	< 5
A581808	13
A581809	6
A581810	8
A581811	< 5
A581812	142
A581813	42
A581814	14
A581815	97
A581816	65
A581817	67
A581818	43
A581819	81
A581820	25
A581821	57
A581822	5
A581823	26
A581824	6
A581825	< 5
A581826	6
A581827	6
A581828	8

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A581829	8
A581830	60
A581831	6
A390841	99
A390842	17
A390843	13
A390844	14
A390845	14
A390846	7

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 220 (Fire Assay) Meas	876
OREAS 220 (Fire Assay) Cert	828
OREAS 220 (Fire Assay) Meas	840
OREAS 220 (Fire Assay) Cert	828
OREAS 220 (Fire Assay) Meas	844
OREAS 220 (Fire Assay) Cert	828
OREAS 220 (Fire Assay) Meas	840
OREAS 220 (Fire Assay) Cert	828
OREAS 222(FIRE ASSAY) Meas	1260
OREAS 222(FIRE ASSAY) Cert	1220
OREAS 222(FIRE ASSAY) Meas	1210
OREAS 222(FIRE ASSAY) Cert	1220
OREAS 222(FIRE ASSAY) Meas	1230
OREAS 222(FIRE ASSAY) Cert	1220
OREAS 222(FIRE ASSAY) Meas	1190
OREAS 222(FIRE ASSAY) Cert	1220
A581603 Orig	6
A581603 Dup	5
A581612 Orig	9
A581612 Dup	10
A581689 Orig	15
A581689 Dup	17
A581706 Orig	< 5
A581706 Dup	< 5
A581752 Orig	6
A581752 Split PREP DUP	7
A581761 Orig	18
A581761 Dup	24
A581771 Orig	15

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
A581771 Dup	14
A581781 Orig	< 5
A581781 Dup	< 5
A581791 Orig	< 5
A581791 Dup	8
A581801 Orig	< 5
A581801 Split PREP DUP	< 5
A581801 Orig	< 5
A581801 Dup	< 5
A581818 Orig	45
A581818 Dup	40
A581829 Orig	8
A581829 Dup	8
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5



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

To: CANADIAN OREBODIES INC.
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

Page: 1
 Total # Pages: 2 (A)
 Plus Appendix Pages
 Finalized Date: 5-JUL-2017
 Account: CANORE

CERTIFICATE TB17121812

Project: Hemlo
 P.O. No.: BM014
 This report is for 33 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 16-JUN-2017.

The following have access to data associated with this certificate:

JOHN HARVEY BRUCE MACLACHLAN	STEPHEN MACCONNEL GORDON MCKINNON	BRUCE MACKIE CANADIAN OREBODIES WEBTRIEVE
---------------------------------	--------------------------------------	--

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-21	Sample logging - ClientBarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: CANADIAN OREBODIES INC.
 ATTN: BRUCE MACLACHLAN
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: CANADIAN OREBODIES INC.
 301 - 141 ADELAIDE STREET WEST
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Page: 2 - A
 Total # Pages: 2 (A)
 Plus Appendix Pages
 Finalized Date: 5-JUL-2017
 Account: CANORE

Project: Hemlo

CERTIFICATE OF ANALYSIS TB17121812

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg	Au g/t
		0.02	0.005
R411877		0.76	1.705
R411878		1.06	1.030
R411879		0.55	1.920
R411880		0.65	0.042
R411881		0.49	0.011
R411882		0.51	0.053
R411883		0.73	<0.005
R411884		1.35	0.005
R411885		1.23	0.109
R411886		1.02	0.104
R411887		0.81	0.404
R411888		0.61	0.036
R411889		0.67	0.806
R411890		0.87	0.117
R411891		0.49	0.146
R411892		1.68	0.233
R411856		0.78	0.005
R411857		0.60	0.009
R411858		0.88	0.008
R411859		0.54	<0.005
W072111		0.46	<0.005
W072112		1.02	<0.005
W072114		0.61	<0.005
W072115		1.11	<0.005
W072116		1.11	<0.005
W072117		1.20	<0.005
W072118		0.54	<0.005
W072705		0.53	0.005
W072706		1.67	1.540
W072707		1.87	<0.005
W072708		1.63	0.007
W072709		1.47	<0.005
W072710		0.64	<0.005

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



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North Vancouver BC V7H 0A7
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To: CANADIAN OREBODIES INC.
301 - 141 ADELAIDE STREET WEST
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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 5-JUL-2017
Account: CANORE

Project: Hemlo

CERTIFICATE OF ANALYSIS TB17121812

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-31	CRU-QC	LOG-21	PUL-31
	PUL-QC	SPL-21	WEI-21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-AA23			



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: CANADIAN OREBODIES INC.
 301 - 141 ADELAIDE STREET WEST
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 Finalized Date: 5-JUL-2017
 Account: CANORE

QC CERTIFICATE TB17121812

Project: Hemlo
 P.O. No.: BM014
 This report is for 33 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 16-JUN-2017.
 The following have access to data associated with this certificate:

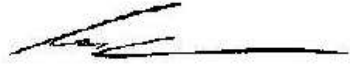
JOHN HARVEY BRUCE MACLACHLAN	STEPHEN MACCONNEL GORDON MCKINNON	BRUCE MACKIE CANADIAN OREBODIES WEBTRIEVE
---------------------------------	--------------------------------------	--

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: CANADIAN OREBODIES INC.
 ATTN: BRUCE MACLACHLAN
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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

To: CANADIAN OREBODIES INC.
 301 - 141 ADELAIDE STREET WEST
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Page: 2 - A
 Total # Pages: 3 (A)
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 Finalized Date: 5-JUL-2017
 Account: CANORE

Project: Hemlo

QC CERTIFICATE OF ANALYSIS TB17121812

Sample Description	Method Analyte Units LOR	Au-AA23 Au g/t 0.005
STANDARDS		
G912-1		7.52
G912-1		7.25
Target Range - Lower Bound		6.85
Upper Bound		7.73
LEA-16		0.504
LEA-16		0.496
Target Range - Lower Bound		0.466
Upper Bound		0.536
OREAS 503b		0.729
Target Range - Lower Bound		0.648
Upper Bound		0.742
OxJ120		2.42
Target Range - Lower Bound		2.22
Upper Bound		2.51
BLANKS		
BLANK		<0.005
BLANK		<0.005
BLANK		<0.005
Target Range - Lower Bound		<0.005
Upper Bound		0.010
DUPLICATES		
ORIGINAL		<0.005
DUP		<0.005
Target Range - Lower Bound		<0.005
Upper Bound		0.010
ORIGINAL		0.028
DUP		0.026
Target Range - Lower Bound		0.021
Upper Bound		0.033

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



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 Account: CANORE

Project: Hemlo

QC CERTIFICATE OF ANALYSIS TB17121812

Sample Description	Method Analyte Units LOR	Au-AA23 Au g/t 0.005
DUPLICATES		
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.005 <0.005 <0.005 0.010
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.005 <0.005 <0.005 0.010
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.009 0.012 <0.005 0.016
W072030 DUP Target Range - Lower Bound Upper Bound		0.156 0.139 0.135 0.160
W072031 DUP Target Range - Lower Bound Upper Bound		0.277 0.262 0.251 0.288
W072109 DUP Target Range - Lower Bound Upper Bound		0.163 0.214 0.174 0.203
R411877 DUP Target Range - Lower Bound Upper Bound		1.705 1.885 1.700 1.890

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



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To: CANADIAN OREBODIES INC.
301 - 141 ADELAIDE STREET WEST
TORONTO ON M5H 3L5

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Account: CANORE

Project: Hemlo

QC CERTIFICATE OF ANALYSIS TB17121812

CERTIFICATE COMMENTS

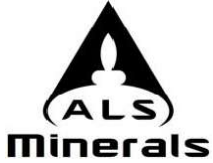
LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada
CRU-31 CRU-QC LOG-21 PUL-31
PUL-QC SPL-21 WEI-21

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA23



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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 Account: CANORE

CERTIFICATE TB17125031

Project: Hemlo
 P.O. No.: BM019
 This report is for 24 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 20-JUN-2017.

The following have access to data associated with this certificate:

JOHN HARVEY BRUCE MACLACHLAN	STEPHEN MACCONNEL GORDON MCKINNON	BRUCE MACKIE CANADIAN OREBODIES WEBTRIEVE
---------------------------------	--------------------------------------	--

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: CANADIAN OREBODIES INC.
 ATTN: BRUCE MACLACHLAN
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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

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 Account: CANORE

Project: Hemlo

CERTIFICATE OF ANALYSIS TB17125031

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg	Au g/t
		0.02	0.005
W072119		0.83	<0.005
W072120		0.74	<0.005
W072121		0.87	<0.005
W072122		0.38	<0.005
W072123		1.07	<0.005
W072124		0.65	<0.005
W072125		0.68	<0.005
W072126		0.91	<0.005
W072127		0.63	<0.005
W072128		0.77	<0.005
W072129		0.84	<0.005
W072130		0.89	<0.005
W072131		0.75	<0.005
W072132		0.32	<0.005
W072133		0.61	<0.005
W072134		0.65	<0.005
W072135		0.76	<0.005
W072136		0.95	<0.005
W072137		0.58	<0.005
W072138		0.82	<0.005
W072139		1.20	<0.005
W072140		0.66	<0.005
W072141		0.79	<0.005
W072142		0.76	<0.005

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 Total # Appendix Pages: 1
 Finalized Date: 17-JUL-2017
 Account: CANORE

Project: Hemlo

CERTIFICATE OF ANALYSIS TB17125031

	CERTIFICATE COMMENTS
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p>
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p>

CRU-31	CRU-QC	LOG-22		
PUL-QC	SPL-21	WEI-21		PUL-31



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QC CERTIFICATE TB17125031

Project: Hemlo
 P.O. No.: BM019
 This report is for 24 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 20-JUN-2017.

The following have access to data associated with this certificate:

JOHN HARVEY BRUCE MACLACHLAN	STEPHEN MACCONNEL GORDON MCKINNON	BRUCE MACKIE CANADIAN OREBODIES WEBTRIEVE
---------------------------------	--------------------------------------	--

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Hemlo

QC CERTIFICATE OF ANALYSIS TB17125031

Sample Description	Method Analyte Units LOR	Au-AA23 Au g/t 0.005
STANDARDS		
G912-1		7.41
Target Range - Lower Bound		6.85
Upper Bound		7.73
LEA-16		0.527
Target Range - Lower Bound		0.466
Upper Bound		0.536
OREAS 503b		0.709
Target Range - Lower Bound		0.648
Upper Bound		0.742
OxJ120		2.40
Target Range - Lower Bound		2.22
Upper Bound		2.51
BLANKS		
BLANK		<0.005
BLANK		<0.005
Target Range - Lower Bound		<0.005
Upper Bound		0.010
DUPLICATES		
ORIGINAL		0.005
DUP		0.005
Target Range - Lower Bound		<0.005
Upper Bound		0.010
W072140		<0.005
DUP		<0.005
Target Range - Lower Bound		<0.005
Upper Bound		0.010

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Project: Hemlo

QC CERTIFICATE OF ANALYSIS TB17125031

Sample Description	Method Analyte Units LOR	Au-AA23 Au g/t 0.005
DUPLICATES		
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.009 0.010 <0.005 0.010
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.005 <0.005 <0.005 0.010
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.005 0.013 <0.005 0.010

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 Account: CANORE

Project: Hemlo

QC CERTIFICATE OF ANALYSIS TB17125031

	CERTIFICATE COMMENTS
Applies to Method:	LABORATORY ADDRESSES Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada CRU-31 CRU-QC LOG-22 PUL-31 PUL-QC SPL-21 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-AA23



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 Account: CANORE

CERTIFICATE TB17156153

Project: Black River

This report is for 92 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 26-JUL-2017.

The following have access to data associated with this certificate:

DAVID GRACIA BRUCE MACKIE CANADIAN OREBODIES WEBTRIEVE	HENRY HUTTERI BRUCE MACLACHLAN	STEPHEN MACCONNEL GORDON MCKINNON
--	-----------------------------------	--------------------------------------

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

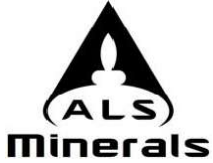
To: CANADIAN OREBODIES INC.
 ATTN: BRUCE MACLACHLAN
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 TORONTO ON M5H 3L5

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Signature:


 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: CANORE

Project: Black River

CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Recvd Wt. kg	Au ppm	Au ppm	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %
V386546		0.85	<0.005													
V386547		0.86	<0.005													
V386548		0.74	<0.005													
V386549		0.98	<0.005													
V386550		1.22	<0.005													
W072066		0.73	<0.005													
W072067		0.47	<0.005													
W072068		0.94	<0.005		<0.001	<0.005	0.001									
W072069		0.95	<0.005													
W072070		1.04	0.006													
W072071		0.80	0.015													
W072072		1.11	<0.005													
W072073		0.93	0.008													
W072074		0.50						0.02	2.60	0.4	<0.02	<10	10	0.12	0.02	1.49
W072075		0.62	0.021													
W072076		0.51	0.015													
W072077		0.47	0.012													
W072078		0.94	0.011													
W072079		0.61	<0.005													
W072080		0.86						0.47	1.69	1.2	0.12	<10	60	0.17	0.16	0.90
W072081		0.75						0.19	1.81	0.7	<0.02	<10	70	0.14	0.13	0.67
W072082		0.53	<0.005													
W072083		0.64	0.010													
W072084		1.09	0.005													
W072085		0.52	0.005													
W072086		0.37	<0.005													
W072087		0.57	<0.005													
W072088		0.76	0.009													
W072089		0.75	<0.005													
W072090		0.36	0.007													
W072091		0.91	0.009													
W072092		1.02	0.005													
W072093		1.03	<0.005													
W072094		0.89	<0.005													
W072095		0.46	0.017													
W072096		1.75	0.069													
W072097		0.65	2.15													
W072098		0.69	0.493													
W072099		0.73	0.196													
W072100		0.58	0.520													

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 Account: CANORE

Project: Black River

CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cd ppm 0.01	Ce ppm 0.02	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1
V386546 V386547 V386548 V386549 V386550																
W072066 W072067 W072068 W072069 W072070																
W072071 W072072 W072073 W072074 W072075		0.05	15.60	20.7	53	0.28	50.4	4.89	9.47	0.11	0.23	<0.01	0.011	0.03	6.6	11.1
W072076 W072077 W072078 W072079 W072080		0.08	29.6	37.2	45	1.88	180.5	4.22	7.43	0.05	0.44	<0.01	0.010	0.47	14.4	12.9
W072081 W072082 W072083 W072084 W072085		0.04	27.9	42.4	48	1.53	394	4.97	6.53	0.08	0.47	<0.01	0.005	0.43	12.5	10.2
W072086 W072087 W072088 W072089 W072090																
W072091 W072092 W072093 W072094 W072095																
W072096 W072097 W072098 W072099 W072100																

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 Account: CANORE

Project: Black River

CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm
V386546 V386547 V386548 V386549 V386550		0.01	5	0.05	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	
W072066 W072067 W072068 W072069 W072070																
W072071 W072072 W072073 W072074 W072075		2.37	554	2.11	0.02	0.08	36.2	180	1.1	2.4	<0.001	0.40	<0.05	8.3	0.2	<0.2
W072076 W072077 W072078 W072079 W072080		1.18	204	2.65	0.05	0.27	33.7	250	3.4	28.0	0.001	1.10	<0.05	6.3	1.1	0.3
W072081 W072082 W072083 W072084 W072085		1.30	239	1.10	0.05	0.20	35.2	330	1.7	26.1	<0.001	1.62	<0.05	4.9	2.6	0.2
W072086 W072087 W072088 W072089 W072090																
W072091 W072092 W072093 W072094 W072095																
W072096 W072097 W072098 W072099 W072100																

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 Total # Pages: 4 (A - D)
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 Finalized Date: 12-AUG-2017
 Account: CANORE

Project: Black River

CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
V386546 V386547 V386548 V386549 V386550		0.2	0.01	0.01	0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
W072066 W072067 W072068 W072069 W072070													
W072071 W072072 W072073 W072074 W072075		10.6	<0.01	0.05	1.0	0.084	0.03	0.08	141	0.15	5.49	82	8.3
W072076 W072077 W072078 W072079 W072080		11.0	<0.01	2.37	2.6	0.147	0.36	0.24	75	0.34	6.32	59	17.0
W072081 W072082 W072083 W072084 W072085		10.0	<0.01	0.40	2.4	0.130	0.34	0.25	78	0.41	6.29	56	17.6
W072086 W072087 W072088 W072089 W072090													
W072091 W072092 W072093 W072094 W072095													
W072096 W072097 W072098 W072099 W072100													

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CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Au ppm	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %
W072901		0.52	0.005													
W072902		0.64	0.318													
W072903		0.77	0.075													
W072904		0.59	1.410													
W072905		1.12	0.025													
W072906		0.70	0.010													
W072907		0.45	0.015													
W072908		0.52	0.007													
W072909		0.47	0.006													
W072910		0.51	0.007													
W072911		0.58	0.017													
W072912		0.54	0.006													
W072913		0.50	<0.005													
W072914		0.60	<0.005													
W072916		0.65	<0.005													
W072917		1.28	0.011		0.007	<0.005	0.001									
W072918		1.04	<0.005													
W072919		0.73	0.506													
W072920		0.98	0.152													
W072921		0.94	0.060													
W072922		1.18	>10.0	15.00												
W072923		0.95	0.398													
W072924		1.06	<0.005													
W072925		1.68	0.009													
W072926		1.37	<0.005													
W072927		0.77	0.005													
W072928		0.61	<0.005													
W072929		1.27	<0.005													
W072930		0.71	<0.005													
W072931		1.68	<0.005													
W072932		1.71	0.009													
W072933		0.84	0.011													
W072934		0.54	<0.005													
W072935		0.81	<0.005													
W072936		1.14	<0.005													
W072937		1.44	<0.005													
W072938		0.93						1.56	3.02	0.3	0.02	<10	80	0.27	0.79	0.27
W072939		0.59						2.49	1.99	0.9	<0.02	<10	30	0.21	1.62	0.24
W072940		1.67						1.30	2.56	0.6	<0.02	<10	20	0.22	0.40	0.31
W072941		1.21						0.55	2.22	0.2	<0.02	<10	40	0.13	0.19	0.17

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 Account: CANORE

Project: Black River

CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm
W072901		0.01	0.02	0.1	1	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1
W072902																
W072903																
W072904																
W072905																
W072906																
W072907																
W072908																
W072909																
W072910																
W072911																
W072912																
W072913																
W072914																
W072916																
W072917																
W072918																
W072919																
W072920																
W072921																
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W072923																
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W072926																
W072927																
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W072929																
W072930																
W072931																
W072932																
W072933																
W072934																
W072935																
W072936																
W072937																
W072938		4.28	18.70	27.7	33	1.23	207	7.38	11.45	0.19	0.46	0.02	0.209	0.82	8.3	20.3
W072939		2.73	25.0	61.6	29	0.36	515	15.80	6.95	0.11	0.48	0.02	0.134	0.23	11.4	14.3
W072940		1.58	25.4	68.5	33	0.49	577	16.05	12.20	0.18	0.47	0.01	0.080	0.20	11.9	18.0
W072941		1.50	23.6	32.2	15	0.09	233	7.16	6.97	0.06	0.48	0.01	0.089	0.15	10.9	15.9

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To: CANADIAN OREBODIES INC.
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

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 Account: CANORE

Project: Black River

CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm
W072901		0.01	5	0.05	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	
W072902																
W072903																
W072904																
W072905																
W072906																
W072907																
W072908																
W072909																
W072910																
W072911																
W072912																
W072913																
W072914																
W072916																
W072917																
W072918																
W072919																
W072920																
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W072922																
W072923																
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W072926																
W072927																
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W072929																
W072930																
W072931																
W072932																
W072933																
W072934																
W072935																
W072936																
W072937																
W072938		3.28	335	2.05	0.05	0.17	26.0	510	29.0	33.2	0.001	4.58	0.14	5.3	7.4	2.4
W072939		2.12	212	0.85	0.03	0.20	44.7	480	246	8.3	0.001	7.79	0.26	3.6	7.9	1.5
W072940		2.60	249	0.68	0.06	0.16	42.3	480	19.3	8.6	0.001	7.16	0.28	5.1	8.0	1.8
W072941		2.37	230	1.14	<0.01	0.14	24.1	500	10.8	3.8	0.001	3.53	0.09	1.5	2.5	1.5

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
W072901		0.2	0.01	0.01	0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
W072902													
W072903													
W072904													
W072905													
W072906													
W072907													
W072908													
W072909													
W072910													
W072911													
W072912													
W072913													
W072914													
W072916													
W072917													
W072918													
W072919													
W072920													
W072921													
W072922													
W072923													
W072924													
W072925													
W072926													
W072927													
W072928													
W072929													
W072930													
W072931													
W072932													
W072933													
W072934													
W072935													
W072936													
W072937		9.5	<0.01	0.71	1.8	0.127	0.44	0.22	45	0.16	4.70	1190	19.5
W072938		4.3	<0.01	1.02	1.5	0.079	0.16	0.20	35	0.11	4.30	754	18.2
W072939		6.7	<0.01	0.31	1.6	0.092	0.15	0.19	45	0.09	4.54	422	18.6
W072940		1.5	<0.01	0.11	1.8	0.059	0.06	0.22	14	0.11	4.07	415	18.9

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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt.	Au	Au	Au	Pt	Pd	Ag	Al	As	Au	B	Ba	Be	Bi	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
W072942		1.23						0.71	2.62	0.7	<0.02	<10	30	0.19	0.31	0.14
W072943		1.16	<0.005													
W072944		1.07	<0.005													
W072945		0.76	<0.005													
W072946		0.91	<0.005													
W072947		0.24	<0.005													
W072948		0.80	<0.005													
W072949		0.70	<0.005													
W072950		0.30	<0.005													
W073251		0.71	<0.005													
W073252		0.94	<0.005													
W073253		0.58	<0.005													

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cd ppm 0.01	Ce ppm 0.02	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1
W072942 W072943 W072944 W072945 W072946		5.11	18.65	35.1	18	0.05	205	6.05	7.96	0.07	0.61	0.04	0.506	0.13	8.6	18.3
W072947 W072948 W072949 W072950 W073251																
W073252 W073253																

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm
W072942 W072943 W072944 W072945 W072946		3.07	288	3.82	<0.01	0.15	53.1	370	4.6	2.9	0.007	2.83	0.05	2.7	3.6	1.4
W072947 W072948 W072949 W072950 W073251																
W073252 W073253																

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CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Sr ppm 0.2	Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2	Ti % 0.005	Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
W072942 W072943 W072944 W072945 W072946		1.2	0.01	0.30	2.1	0.073	0.04	0.32	23	0.16	5.04	1440	25.7
W072947 W072948 W072949 W072950 W073251													
W073252 W073253													

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CERTIFICATE OF ANALYSIS TB17156153

	CERTIFICATE COMMENTS								
Applies to Method:	<p>ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).</p> <p>ME-MS41</p>								
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;"></td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td style="text-align: right;">PUL-31</td> </tr> </table>	CRU-31	CRU-QC	LOG-21		PUL-QC	SPL-21	WEI-21	PUL-31
CRU-31	CRU-QC	LOG-21							
PUL-QC	SPL-21	WEI-21	PUL-31						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA23</td> <td style="width: 33%;">Au-GRA21</td> <td style="width: 33%;">ME-MS41</td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: right;">PGM-ICP23</td> </tr> </table>	Au-AA23	Au-GRA21	ME-MS41					PGM-ICP23
Au-AA23	Au-GRA21	ME-MS41							
			PGM-ICP23						



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QC CERTIFICATE TB17156153

Project: Black River

This report is for 92 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 26-JUL-2017.

The following have access to data associated with this certificate:

DAVID GRACIA BRUCE MACKIE CANADIAN OREBODIES WEBTRIEVE	HENRY HUTTERI BRUCE MACLACHLAN	STEPHEN MACCONNEL GORDON MCKINNON
--	-----------------------------------	--------------------------------------

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: CANADIAN OREBODIES INC.
 ATTN: BRUCE MACLACHLAN
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	Au-AA23	Au-GRA21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Au ppm	Au ppm	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
STANDARDS																
AMIS0282				0.183	0.973	1.415										
Target Range - Lower Bound				0.178	0.907	1.325										
Upper Bound				0.202	1.035	1.495										
CDN-PGMS25				0.486	0.400	1.845										
Target Range - Lower Bound				0.453	0.371	1.720										
Upper Bound				0.513	0.429	1.940										
G912-1	7.42															
G912-1	7.63															
Target Range - Lower Bound	6.85															
Upper Bound	7.73															
G912-1			7.32	<0.005	<0.001											
Target Range - Lower Bound																
Upper Bound																
G915-7		12.30														
Target Range - Lower Bound		11.60														
Upper Bound		13.15														
LEA-16	0.513															
Target Range - Lower Bound	0.466															
Upper Bound	0.536															
LEA-16			0.480	<0.005	<0.001											
Target Range - Lower Bound			0.470													
Upper Bound			0.532													
MRGeo08							4.23	2.56	32.8	<0.02	<10	440	0.86	0.63	1.04	2.16
Target Range - Lower Bound							4.00	2.44	29.6	<0.02	<10	370	0.67	0.60	1.00	2.01
Upper Bound							4.92	3.00	36.4	0.04	20	530	0.95	0.76	1.24	2.47
OREAS 200	0.342															
OREAS 200	0.340															
Target Range - Lower Bound	0.315															
Upper Bound	0.365															
OREAS 905							0.49	0.77	31.3	0.37	<10	230	0.89	5.38	0.33	0.32
Target Range - Lower Bound							0.45	0.73	28.4	0.33	<10	200	0.78	5.16	0.29	0.30
Upper Bound							0.58	0.91	35.0	0.45	20	300	1.08	6.32	0.38	0.38
OxJ120	2.40															
OxJ120	2.35															
Target Range - Lower Bound	2.22															
Upper Bound	2.51															
OxJ120		2.27														
Target Range - Lower Bound		2.17														
Upper Bound		2.56														

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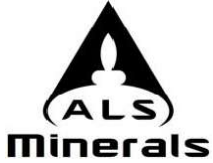
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %
STANDARDS																
AMIS0282																
Target Range - Lower Bound																
Upper Bound																
CDN-PGMS25																
Target Range - Lower Bound																
Upper Bound																
G912-1																
Target Range - Lower Bound																
Upper Bound																
G912-1																
Target Range - Lower Bound																
Upper Bound																
G915-7																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
LEA-16																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		72.0	18.7	90	10.20	627	3.58	9.59	0.12	0.78	0.07	0.149	1.28	35.7	32.1	1.14
Target Range - Lower Bound		66.2	17.0	81	9.40	587	3.22	8.73	0.07	0.64	0.04	0.137	1.12	33.2	29.6	1.03
Upper Bound		81.0	21.0	102	11.60	675	3.96	10.80	0.29	0.83	0.10	0.179	1.40	41.0	36.4	1.29
OREAS 200																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		73.4	12.9	17	1.14	1545	3.37	5.89	0.07	1.17	0.02	0.551	0.30	36.9	3.7	0.14
Target Range - Lower Bound		72.0	12.4	15	1.14	1450	3.14	5.74	<0.05	1.08	<0.01	0.517	0.28	35.6	4.3	0.13
Upper Bound		88.0	15.4	20	1.50	1670	3.86	7.12	0.22	1.36	0.04	0.643	0.36	44.0	5.5	0.19
OxJ120																
Target Range - Lower Bound																
Upper Bound																
OxJ120																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm
STANDARDS																
AMIS0282																
Target Range - Lower Bound																
Target Range - Upper Bound																
CDN-PGMS25																
Target Range - Lower Bound																
Target Range - Upper Bound																
G912-1																
G912-1																
Target Range - Lower Bound																
Target Range - Upper Bound																
G912-1																
Target Range - Lower Bound																
Target Range - Upper Bound																
G915-7																
Target Range - Lower Bound																
Target Range - Upper Bound																
LEA-16																
Target Range - Lower Bound																
Target Range - Upper Bound																
LEA-16																
Target Range - Lower Bound																
Target Range - Upper Bound																
MRGeo08		421	14.60	0.31	0.90	707	960	1065	145.0	0.007	0.29	3.34	7.1	1.2	3.5	74.5
Target Range - Lower Bound		378	13.10	0.30	0.79	622	900	959	132.0	0.006	0.27	2.80	6.7	0.9	2.8	72.1
Target Range - Upper Bound		473	16.10	0.39	1.09	760	1130	1175	162.0	0.010	0.35	3.90	8.4	1.9	4.0	88.5
OREAS 200																
OREAS 200																
Target Range - Lower Bound																
Target Range - Upper Bound																
OREAS 905		338	2.94	0.08	0.27	8.0	230	15.5	17.8	<0.001	0.06	1.05	1.6	2.3	1.3	11.8
Target Range - Lower Bound		310	2.65	0.07	0.19	7.8		15.2	17.3	<0.001	0.04	0.90	1.6	1.8	0.8	10.9
Target Range - Upper Bound		390	3.35	0.12	0.43	10.0		19.0	21.3	0.002	0.09	1.34	2.2	2.8	1.7	13.7
OxJ120																
OxJ120																
Target Range - Lower Bound																
Target Range - Upper Bound																
OxJ120																
Target Range - Lower Bound																
Target Range - Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
STANDARDS												
AMIS0282												
Target Range - Lower Bound												
Upper Bound												
CDN-PGMS25												
Target Range - Lower Bound												
Upper Bound												
G912-1												
Target Range - Lower Bound												
Upper Bound												
G912-1												
Target Range - Lower Bound												
Upper Bound												
G915-7												
Target Range - Lower Bound												
Upper Bound												
LEA-16												
Target Range - Lower Bound												
Upper Bound												
LEA-16												
Target Range - Lower Bound												
Upper Bound												
MRCGeo08		0.01	0.02	21.2	0.386	0.81	5.18	99	3.11	19.35	781	23.0
Target Range - Lower Bound		<0.01	<0.01	19.1	0.338	0.64	4.93	90	2.44	17.50	708	18.1
Upper Bound		0.03	0.04	23.7	0.424	0.92	6.13	112	3.42	21.5	870	25.7
OREAS 200												
Target Range - Lower Bound												
Upper Bound												
OREAS 905		<0.01	0.05	8.1	0.020	0.10	2.09	6	0.58	6.66	63	45.2
Target Range - Lower Bound		<0.01	0.04	7.8	0.008	0.06	2.08	4	0.44	6.32	58	39.9
Upper Bound		0.02	0.09	10.0	0.030	0.16	2.66	8	0.76	7.84	76	55.1
OxJ120												
Target Range - Lower Bound												
Upper Bound												
OxJ120												
Target Range - Lower Bound												
Upper Bound												

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Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm	Au-GRA21 Au ppm	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm
BLANKS																
BLANK		<0.005														
BLANK		<0.005														
BLANK		0.005														
BLANK		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.05													
Target Range - Lower Bound			<0.05													
Upper Bound			0.10													
BLANK							<0.01	<0.01	<0.1	<0.02	<10	<10	0.07	<0.01	<0.01	0.01
Target Range - Lower Bound							<0.01	<0.01	<0.1	<0.02	<10	<10	<0.05	<0.01	<0.01	<0.01
Upper Bound							0.02	0.02	0.2	0.04	20	20	0.10	0.02	0.02	0.02
BLANK				<0.001	<0.005	<0.001										
Target Range - Lower Bound				<0.001	<0.005	<0.001										
Upper Bound				0.002	0.010	0.002										
DUPLICATES																
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL																
DUP				0.078	0.141	0.107										
Target Range - Lower Bound				0.078	0.136	0.108										
Upper Bound				0.073	0.127	0.101										
ORIGINAL				0.083	0.150	0.114										
DUP				0.234	0.282	0.450										
Target Range - Lower Bound				0.403	0.303	0.444										
Upper Bound				0.302	0.273	0.424										
				0.335	0.312	0.470										

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Sample Description	Method Analyte Units LOR	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		0.02	<0.1	<1	<0.05	0.4	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	0.2	<0.01
Target Range - Lower Bound		<0.02	<0.1	<1	<0.05	<0.2	<0.01	<0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.2	<0.1	<0.01
Upper Bound		0.04	0.2	2	0.10	0.4	0.02	0.10	0.10	0.04	0.02	0.010	0.02	0.4	0.2	0.02
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %	ME-MS41 Nb ppm	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound		<5	<0.05	<0.01	<0.05	<0.2	<10	0.2	<0.1	<0.001	<0.01	<0.05	0.1	<0.2	<0.2	<0.2
Upper Bound		10	0.10	0.02	0.10	0.4	20	0.4	0.2	0.002	0.02	0.10	0.2	0.4	0.4	0.4
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2	Ti % 0.005	Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
BLANKS												
BLANK												
BLANK												
BLANK												
BLANK												
Target Range - Lower Bound												
Upper Bound												
BLANK												
Target Range - Lower Bound												
Upper Bound												
BLANK		<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Target Range - Lower Bound		<0.01	<0.01	<0.2	<0.005	<0.02	<0.05	<1	<0.05	<0.05	<2	<0.5
Upper Bound		0.02	0.02	0.4	0.010	0.04	0.10	2	0.10	0.10	4	1.0
BLANK												
Target Range - Lower Bound												
Upper Bound												
DUPLICATES												
ORIGINAL												
DUP												
Target Range - Lower Bound												
Upper Bound												
ORIGINAL												
DUP												
Target Range - Lower Bound												
Upper Bound												

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Sample Description	Method Analyte Units LOR	Au-AA23	Au-GRA21	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Au ppm	Au ppm	Au ppm	Pt ppm	Pd ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
DUPLICATES																
W072071		0.015														
DUP		0.017														
Target Range - Lower Bound		0.010														
Upper Bound		0.022														
W072094		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
W072914		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL							0.32	0.94	0.7	0.06	<10	170	0.13	0.66	1.16	0.04
DUP							0.32	0.93	0.9	0.04	<10	170	0.17	0.63	1.16	0.04
Target Range - Lower Bound							0.29	0.88	0.7	0.03	<10	150	0.09	0.60	1.09	0.03
Upper Bound							0.35	0.99	0.9	0.07	20	190	0.21	0.69	1.23	0.05
W072939		0.009														
DUP		0.013														
Target Range - Lower Bound		<0.005														
Upper Bound		0.017														
ORIGINAL			5.18													
DUP			4.40													
Target Range - Lower Bound			4.50													
Upper Bound			5.08													
ORIGINAL		0.006														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.022														
DUP		0.020														
Target Range - Lower Bound		0.015														
Upper Bound		0.027														

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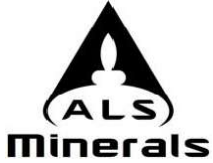
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %
DUPLICATES																
W072071 DUP Target Range - Lower Bound Upper Bound																
W072094 DUP Target Range - Lower Bound Upper Bound																
W072914 DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		11.20 10.80 10.45 11.55	38.8 39.3 37.0 41.1	18 17 16 19	1.75 1.69 1.58 1.86	95.6 93.7 91.1 98.2	2.81 2.76 2.64 2.93	3.76 3.64 3.47 3.94	<0.05 <0.05 <0.05 0.10	0.07 0.07 0.05 0.09	<0.01 <0.01 <0.01 0.02	0.040 0.036 0.031 0.045	0.52 0.52 0.48 0.56	5.2 5.0 4.6 5.6	11.7 12.5 11.4 12.8	0.56 0.56 0.52 0.60
W072939 DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm
DUPLICATES																
W072071 DUP Target Range - Lower Bound Upper Bound																
W072094 DUP Target Range - Lower Bound Upper Bound																
W072914 DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		268 270 251 287	0.39 0.37 0.31 0.45	0.03 0.03 0.02 0.04	0.06 0.06 <0.05 0.10	26.0 25.2 24.1 27.1	290 280 260 310	1.0 0.9 0.7 1.2	28.3 26.9 26.1 29.1	<0.001 <0.001 <0.001 0.002	0.70 0.70 0.66 0.75	<0.05 <0.05 <0.05 0.10	0.9 0.9 0.8 1.0	<0.2 0.2 <0.2 0.4	<0.2 <0.2 <0.2 0.4	28.0 26.6 25.7 28.9
W072939 DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2	Ti % 0.005	Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
DUPLICATES												
W072071 DUP Target Range - Lower Bound Upper Bound												
W072094 DUP Target Range - Lower Bound Upper Bound												
W072914 DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<0.01 <0.01 <0.01 0.02	0.53 0.60 0.53 0.60	0.4 0.4 <0.2 0.6	0.083 0.083 0.074 0.092	0.22 0.20 0.17 0.25	0.08 0.07 <0.05 0.10	12 12 10 14	0.17 0.17 0.11 0.23	2.36 2.31 2.17 2.50	39 38 35 42	2.4 2.4 1.7 3.1
W072939 DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												

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Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm	Au-GRA21 Au ppm	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 Au ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm
DUPLICATES																
ORIGINAL				0.001	<0.005	0.001										
DUP				0.001	<0.005	0.001										
Target Range - Lower Bound				<0.001	<0.005	<0.001										
Upper Bound				0.002	0.010	0.002										
ORIGINAL		0.008														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.013														
DUP		0.011														
Target Range - Lower Bound		0.006														
Upper Bound		0.018														
ORIGINAL		0.040														
DUP		0.036														
Target Range - Lower Bound		0.031														
Upper Bound		0.045														
ORIGINAL		0.005														
DUP		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
PREP DUPLICATES																
W072913		<0.005														
W072913 PREP DUP		<0.005														

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Sample Description	Method Analyte Units LOR	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05	ME-MS41 Cu ppm 0.2	ME-MS41 Fe % 0.01	ME-MS41 Ga ppm 0.05	ME-MS41 Ge ppm 0.05	ME-MS41 Hf ppm 0.02	ME-MS41 Hg ppm 0.01	ME-MS41 In ppm 0.005	ME-MS41 K % 0.01	ME-MS41 La ppm 0.2	ME-MS41 Li ppm 0.1	ME-MS41 Mg % 0.01
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
W072913 W072913 PREP DUP		PREP DUPLICATES														

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Project: Black River

QC CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm
		5	0.05	0.01	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
W072913 W072913 PREP DUP		PREP DUPLICATES														

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



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

To: CANADIAN OREBODIES INC.
 301 - 141 ADELAIDE STREET WEST
 TORONTO ON M5H 3L5

Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 12-AUG-2017
 Account: CANORE

Project: Black River

QC CERTIFICATE OF ANALYSIS TB17156153

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ta ppm 0.01	Te ppm 0.01	Th ppm 0.2	Ti % 0.005	Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES										
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
ORIGINAL DUP Target Range - Lower Bound Upper Bound												
W072913 W072913 PREP DUP		PREP DUPLICATES										

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



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To: CANADIAN OREBODIES INC.
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Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 12-AUG-2017
 Account: CANORE

Project: Black River

QC CERTIFICATE OF ANALYSIS TB17156153

	CERTIFICATE COMMENTS								
Applies to Method:	<p>ANALYTICAL COMMENTS</p> <p>Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).</p> <p>ME-MS41</p>								
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;"></td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td>PUL-31</td> </tr> </table>	CRU-31	CRU-QC	LOG-21		PUL-QC	SPL-21	WEI-21	PUL-31
CRU-31	CRU-QC	LOG-21							
PUL-QC	SPL-21	WEI-21	PUL-31						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA23</td> <td style="width: 33%;">Au-GRA21</td> <td style="width: 33%;">ME-MS41</td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>PGM-ICP23</td> </tr> </table>	Au-AA23	Au-GRA21	ME-MS41					PGM-ICP23
Au-AA23	Au-GRA21	ME-MS41							
			PGM-ICP23						

APPENDIX – III

Actlabs

Precious Metals Packages

Gold and Silver Analyses

Gold and Silver Analyses - Geochem

Code	Method	Sample Weight (g)	Metric Range	Price
1A1	Au Fire Assay - INAA	30	1 - 20,000 ppb	\$19.50
1A2 *	Au Fire Assay - AA	30	5 - 5,000 ppb	\$16.25
1A2-50 *	Au Fire Assay - AA	50	5 - 5,000 ppb	\$18.50
1A2-ICP	Au Fire Assay - ICP-OES	30	2 - 30,000 ppb	\$17.25
1A2-ICP-50	Au Fire Assay - ICP-OES	50	2 - 30,000 ppb	\$19.25
1A2-ICPMS	Au Fire Assay - ICP-MS	30	0.5 - 30,000 ppb	\$25.00
1A6	Au BLEG - ICP-MS	1,000	0.1 - 10,000 ppb	\$43.25
1A8	Au Aqua Regia - ICP-MS	30	0.2 - 2,000 ppb	\$17.25
1E-Ag	Ag Aqua Regia - ICP-OES	0.5	0.2 - 100 ppm	\$6.50



Gold and Silver Analyses - Assay

Code	Method	Sample Weight (g)	Metric Range	Price
1A3-30	Au Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT	\$21.75
1A3-50	Au Fire Assay - Gravimetric	50	0.02 - 10,000 g/mT	\$22.75
1A3-Ag (Au,Ag)	Au, Ag Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT (Au) 3 - 10,000 g/mT (Ag)	\$25.00
1A4 **	Au Fire Assay - Metallic Screen	500	0.03 g/mT	\$75.75
1A4-1000 **	Au Fire Assay - Metallic Screen	1,000	0.03 g/mT	\$86.50
8-Ag	Ag Fire Assay - Gravimetric	30	3 - 10,000 g/mT	\$23.00

When submitting samples for Au and Ag analysis, or Au, Pt Pd and Rh analysis, please try to ensure you send two-times the listed weight.

Gold, Platinum, Palladium and Rhodium

Code	Method	Sample Weight (g)	Range (ppb)				Price
			Au	Pt	Pd	Rh	
1C-Exploration	Fire Assay - ICP-MS	30	2 - 30,000	1 - 30,000	1 - 30,000		\$21.75
1C-EXP 2	Fire Assay - ICP-MS	30	1 - 30,000	0.5 - 30,000	0.5 - 30,000		\$23.75
1C-research	Fire Assay - ICP-MS	30	1 - 30,000	0.1 - 30,000	0.1 - 30,000		\$34.50
1C-Rhodium	Fire Assay - ICP-MS	30	-	-	-	5 - 10,000	\$32.50
1C-OES	Fire Assay - ICP-OES	30	2 - 30,000	5 - 30,000	5 - 30,000		\$18.50
8 Au, Pt, Pd	Fire Assay - ICP-OES	30	0.001 - 1000 g/mT	0.001 - 1000 g/mT	0.001 - 1000 g/mT		\$48.75

Platinum Group Elements

Code	Method	Sample Weight (g)	Range (ppb)							Price	
			Os	Ir	Ru	Rh	Pt	Pd	Au		Re
1B1	NiS Fire Assay - INAA	25	2	0.1	5	0.2	5 [†]	2	0.5	5	1-2 samples \$346.00 3+ samples \$173.00
1B2	NiS Fire Assay - ICP-MS	50	-	1	1	1	1	1	1	1	1-2 samples \$346.00 3+ samples \$173.00

Organic Sample Surcharge - \$1.10/sample for Fire Assay packages

Notes:

Use of 50 gram sample for fire assay may not provide optimum recovery.

For proper fire assay fusion, Actlabs may reduce the sample weights to 15 g or smaller at its discretion.

* Detection limit can be extended to 10,000 ppb if required. Please specify when required.

** A representative 500 gram or 1000 gram (or customized) sample split is sieved at 100 mesh (150 micron), with assays performed on the entire +100 mesh fraction and two splits of the -100 mesh fraction. It is important not to overpulverize the sample too finely, as tests have shown gold will plate out on the mill and be lost. When assays have been completed on the coarse and fine portions of the bulk sample, a final assay is calculated based on the weight of each fraction.

[†]Detection limits for Pt are increased with high Au/Pt ratios and limits for other elements will be affected by abnormally high Au, Sb and Cu content.

Samples with high Au can be reanalyzed by Code 1C exploration or research. Zn concentrates are not amenable to the nickel sulphide fire assay. Au results by Code 1B1 or 1B2 can be low by nickel sulphide fire assay. For accurate Au values, please request Code 1C-exploration.

ALS Labs

Gold by Fire Assay

ALS uses an optimal fire assay flux recipe and rigorous quality control program to handle all but the highest concentrations of problem materials including chromite, base metal sulfides and oxides, selenides, and tellurides. With prior knowledge of the presence of these minerals and metals, ALS can further modify the flux constituents to improve recoveries.

ANALYTE	RANGE (ppm)*	DESCRIPTION	CODE	PRICE PER SAMPLE (\$)
Trace Level				
Au	0.001-10	Au by fire assay and ICP-AES. 30g nominal sample weight 50g nominal sample weight	AU-ICP21 AU-ICP22	17.20 20.35
Au	0.005-10	Au by fire assay and AAS. 30g nominal sample weight 50g nominal sample weight	AU-AA23 AU-AA24	16.55 19.70
Ore Grade				
Au	0.01-100	Au by fire assay and AAS. 30g nominal sample weight 50g nominal sample weight	AU-AA25 AU-AA26	17.20 20.35
Au	0.05-1,000	Au by fire assay and gravimetric finish. 30g nominal sample weight 50g nominal sample weight	AU-GRA21 AU-GRA22	21.70 26.05

* 1 oz/ton = 34,285ppm

When samples contain very high grade or coarse gold occurrences, the screen metallic procedure is recommended to help avoid over- or under-estimating gold grades. ALS can help you customize a gold assay program to meet your project needs; please enquire.

ANALYTE	RANGE (ppm)*	DESCRIPTION	CODE	PRICE PER SAMPLE (\$)
Au	0.05-1,000	1kg screen fire assay. Screen to 100 microns (other sizes available). Duplicate assay on screen undersize. Assay of entire oversize fraction. 30g nominal sample weight 50g nominal sample weight	AU-SCR21** AU-SCR24**	57.30 63.60

* 1 oz/ton = 34,285ppm

Silver

Trace level and low-grade silver samples may be analyzed by acid digestion for maximum sensitivity and precision. Because silver can suffer from the nugget effect, occasional duplicate analysis may help detect sampling error at these low levels.

ANALYTE	RANGE (ppm)	DESCRIPTION	CODE	PRICE PER SAMPLE (\$)
Trace Level				
Ag	0.2-100	Ag by aqua regia digestion and AAS.	Ag-AA45	6.60
Ag	0.5-100	Ag by HF-HNO ₃ -HClO ₄ digestion, HCl leach and AAS.	Ag-AA61	9.15
Note: See also multi-element methods that include Ag in the Targeted Exploration section (pages 21-23).				
Ore Grade				
Ag	1-1,500	Ag by aqua regia digestion, ICP-AES or AAS finish.	Ag-0G46 (Ag-AA46)	11.50
Ag	1-1,500	Ag by HF-HNO ₃ -HClO ₄ digestion with HCl leach, ICP-AES or AAS finish.	Ag-0G62 (Ag-AA62)	14.10
Ag	5-10,000	Ag by fire assay and gravimetric finish. 30g nominal sample weight 50g nominal sample weight	Ag-GRA21 Ag-GRA22	22.90 27.35
Au Ag	0.05-1,000 5-10,000	Au and Ag by fire assay and gravimetric finish. 30g nominal sample weight 50g nominal sample weight	ME-GRA21 ME-GRA22	28.10 32.50

Platinum, Palladium & Other Precious Metals

Platinum, palladium, rhodium and gold may be determined by standard lead oxide collection fire assay and ICP-MS or ICP-AES finish. For the full list of platinum group elements, nickel sulfide collection fire assay must be used for a quantitative analysis.

ANALYTE	RANGE (ppm)	DESCRIPTION	CODE	PRICE PER SAMPLE (\$)
Trace Level				
PT Pd Au	0.0001-1 0.0002-1 0.001-1	Super trace Pt, Pd and Au by fire assay and ICP-MS finish. 30g nominal sample weight	PGM-MS23L	23.80
PT Pd Au	0.0005-1 0.001-1 0.001-1	Pt, Pd and Au by fire assay and ICP-MS finish. 30g nominal sample weight 50g nominal sample weight	PGM-MS23 PGM-MS24	20.70 23.85
Rh	0.001-1	Rh by fire assay, gold collection and ICP-MS. 30g nominal sample weight.	Rh-MS25	22.75
PT Pd Au	0.005-10 0.001-10 0.001-10	Pt, Pd and Au by fire assay and ICP-AES finish. 30g nominal sample weight 50g nominal sample weight	PGM-ICP23 PGM-ICP24	19.50 22.70
PGE Suite	Various	Pt, Pd, Ir, Os, Rh, Ru and Au by fire assay with nickel sulfide collection and neutron activation analysis.	PGM-NAA26	By Quotation
Ore Grade				
PT Pd Au	0.01-100 0.01-100 0.01-100	Pt, Pd and Au by fire assay and ICP-AES finish. 30g nominal sample weight	PGM-ICP27	21.00



APPENDIX – IV

STATEMENT of EXPENDITURES

The following is a breakdown of expenditures related to the 2017 prospecting program on the Sprucejack Property.

Labour:

Preparation, field work, travel

Labour	\$ 16,225.00
--------	--------------

Prepare maps etc.

Tom Savage (geo-reference geology maps, satellite imagery)	\$ 1,842.00
Matthew Johnston (geo-reference mag)	\$ 500.00

Report Writing

Bruce MacLachlan	\$ 1,950.00
------------------	-------------

Associated Costs:

Camp Costs (Meals, Accommodation etc.)	\$ 6,436.59
Field Supplies	\$ 239.33
Ground Travel and Transportation	\$ 2,329.85
Helicopter including fuel	\$ 12,269.83
Motel	\$ 657.83
Plane	\$ 470.05

Analytical Costs:

Actlabs (93 rock samples)	\$ 1,599.10
ALS Labs (42 rock samples)	<u>\$ 1,010.10</u>

TOTAL EXPENDITURES	\$ 45,529.68
--------------------	---------------------

EXPENDITURES by CLAIM

Claim Number	
1247569	\$ 337.25
4279895	\$ 6,070.50
4279896	\$ 337.25
4284044	\$ 2,360.75
4284045	\$ 674.50
4284048	\$ 674.50
4284847	\$ 3,709.75
4284848	\$ 7,419.50
4284849	\$ 19,224.18
4285593	\$ 674.50
4285594	\$ 1,011.75
4285595	\$ 1,686.25
4285600	\$ 1,349.00
	<u>\$ 45,529.68</u>

APPENDIX – V

Sample A374804



New Contact Lake Gold Discovery



Sample A374845

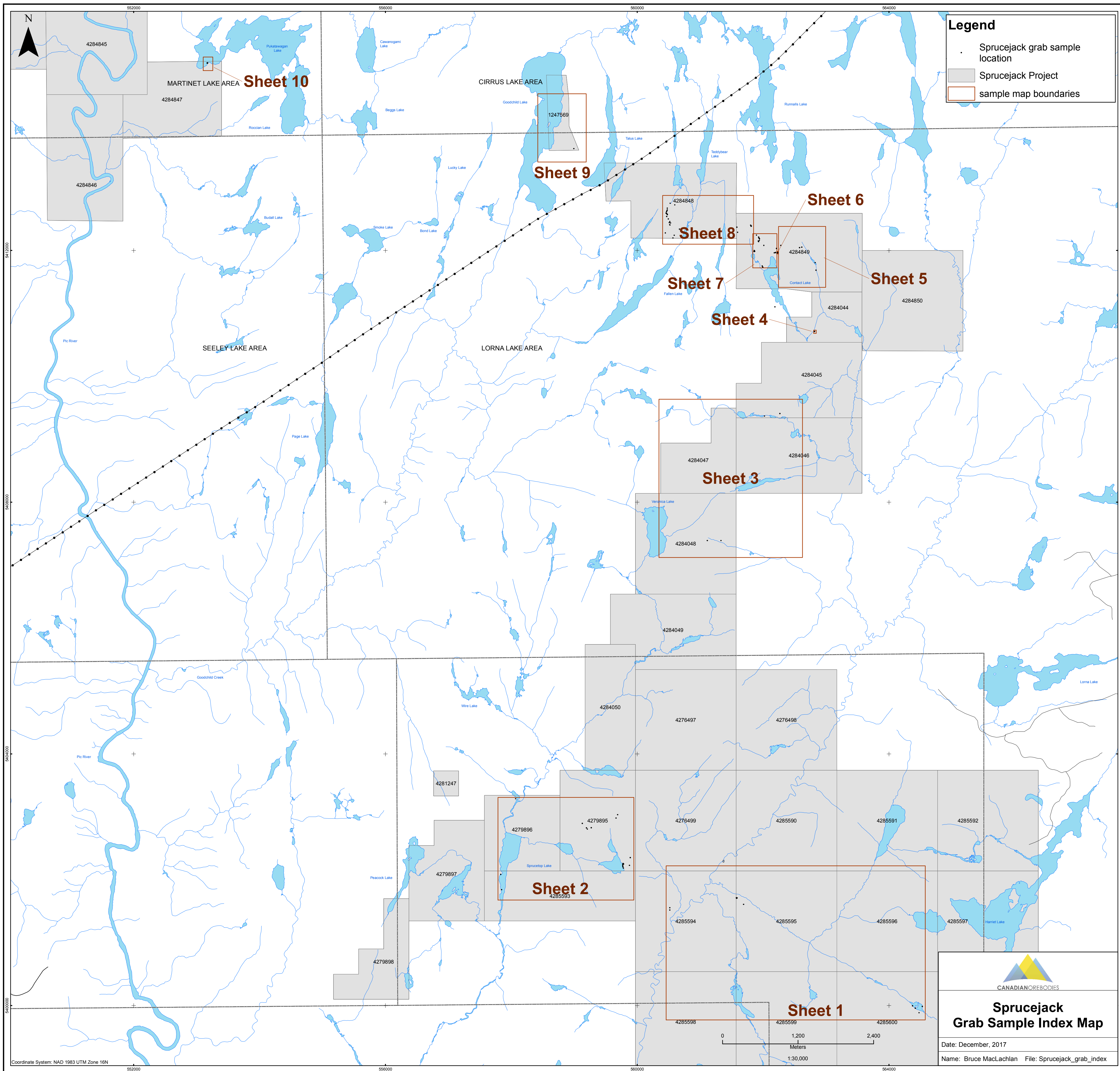


Large Quartz Blocks




Camp



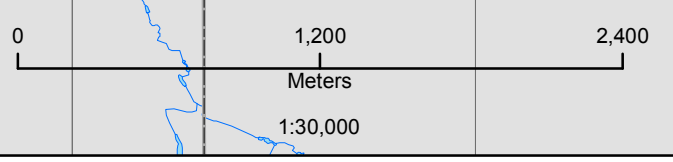


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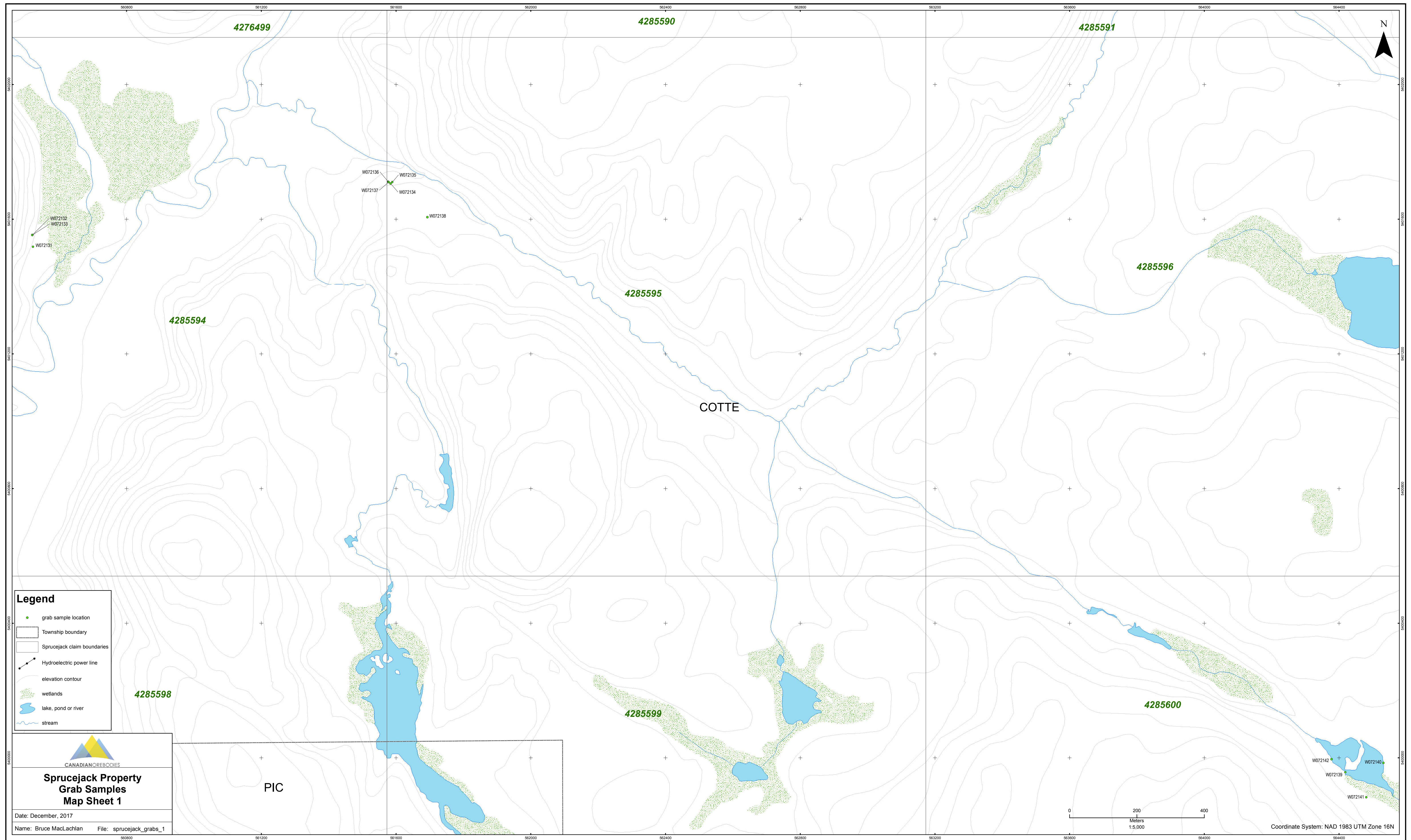
- Sprucejack grab sample location
- Sprucejack Project
- sample map boundaries


Canadian Orebodies
Sprucejack
Grab Sample Index Map

Date: December, 2017
 Name: Bruce MacLachlan File: Sprucejack_grab_index




Coordinate System: NAD 1983 UTM Zone 16N

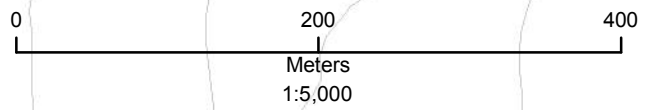


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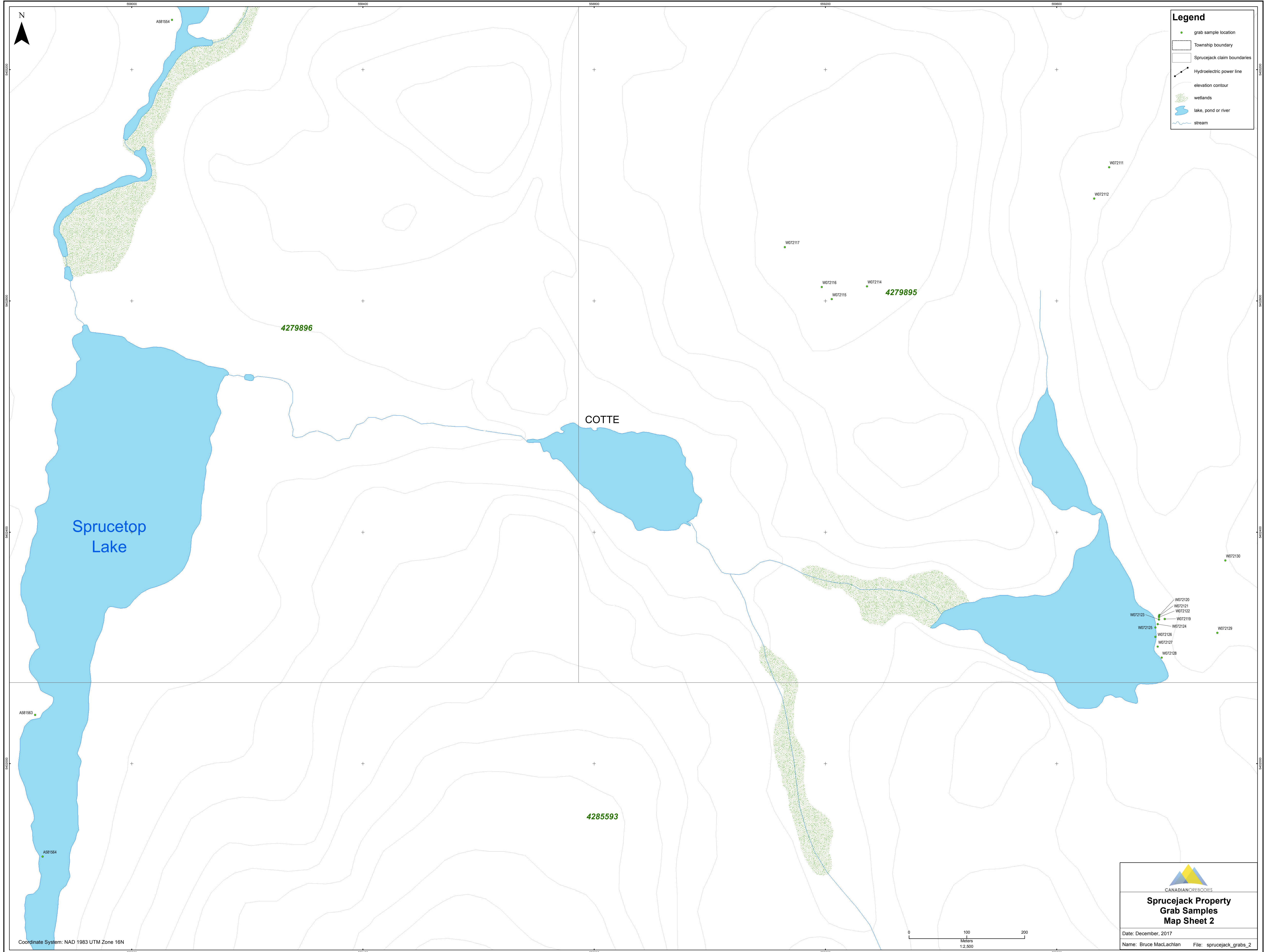
- grab sample location
- ▭ Township boundary
- - - Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream


**Sprucejack Property
Grab Samples
Map Sheet 1**

Date: December, 2017
Name: Bruce MacLachlan File: sprucejack_grabs_1



Coordinate System: NAD 1983 UTM Zone 16N



Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream


Sprucetop
Lake

COTTE

4279896

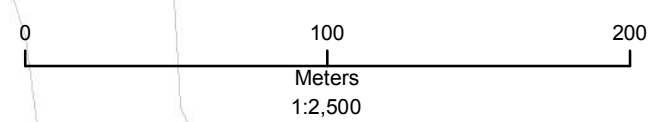
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4285593

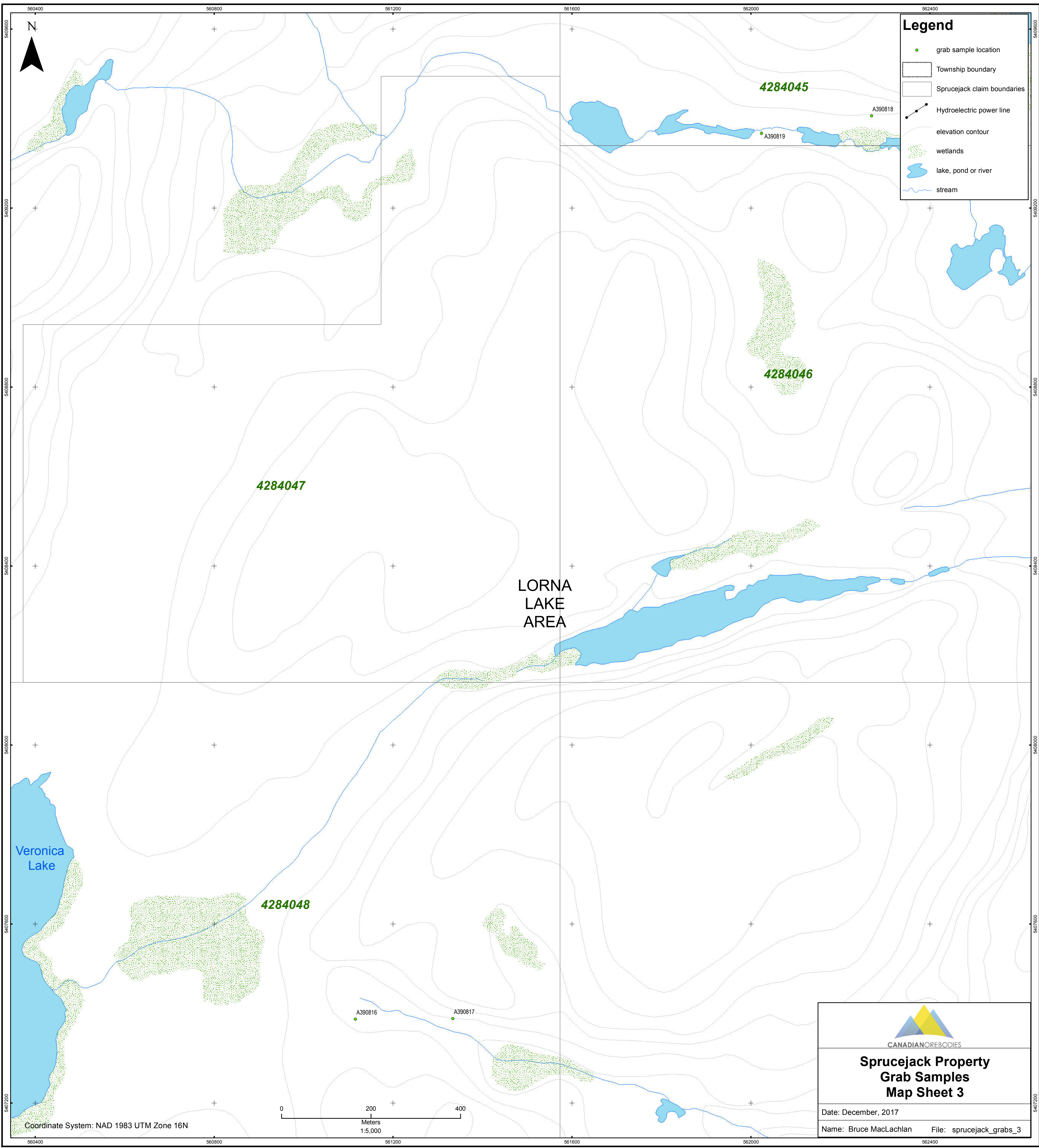


**Sprucejack Property
Grab Samples
Map Sheet 2**

Date: December, 2017
Name: Bruce MacLachlan File: sprucejack_grabs_2



Coordinate System: NAD 1983 UTM Zone 16N



Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

LORNA
LAKE
AREA

4284047

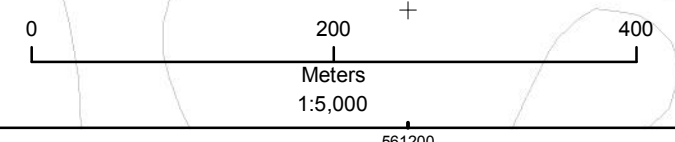
4284046


4284045

4284048

Veronica
Lake

Coordinate System: NAD 1983 UTM Zone 16N





CANADIAN OREBODIES

Sprucejack Property Grab Samples Map Sheet 3

Date: December, 2017
Name: Bruce MacLachlan File: sprucejack_grabs_3

N



562820

562840









5410720

5410720

5410700

5410700

Legend

-  grab sample location
-  Township boundary
-  Sprucejack claim boundaries
-  Hydroelectric power line
-  elevation contour
-  wetlands
-  lake, pond or river
-  stream

4284044

A374820

A374822

A374821

A374823

A374824

A374825

A374826

LORNA LAKE AREA

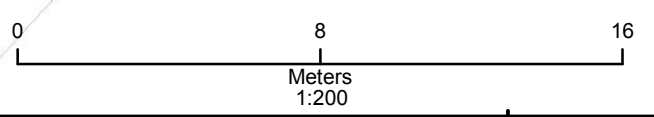
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**Sprucejack Property
Grab Samples
Map Sheet 4**

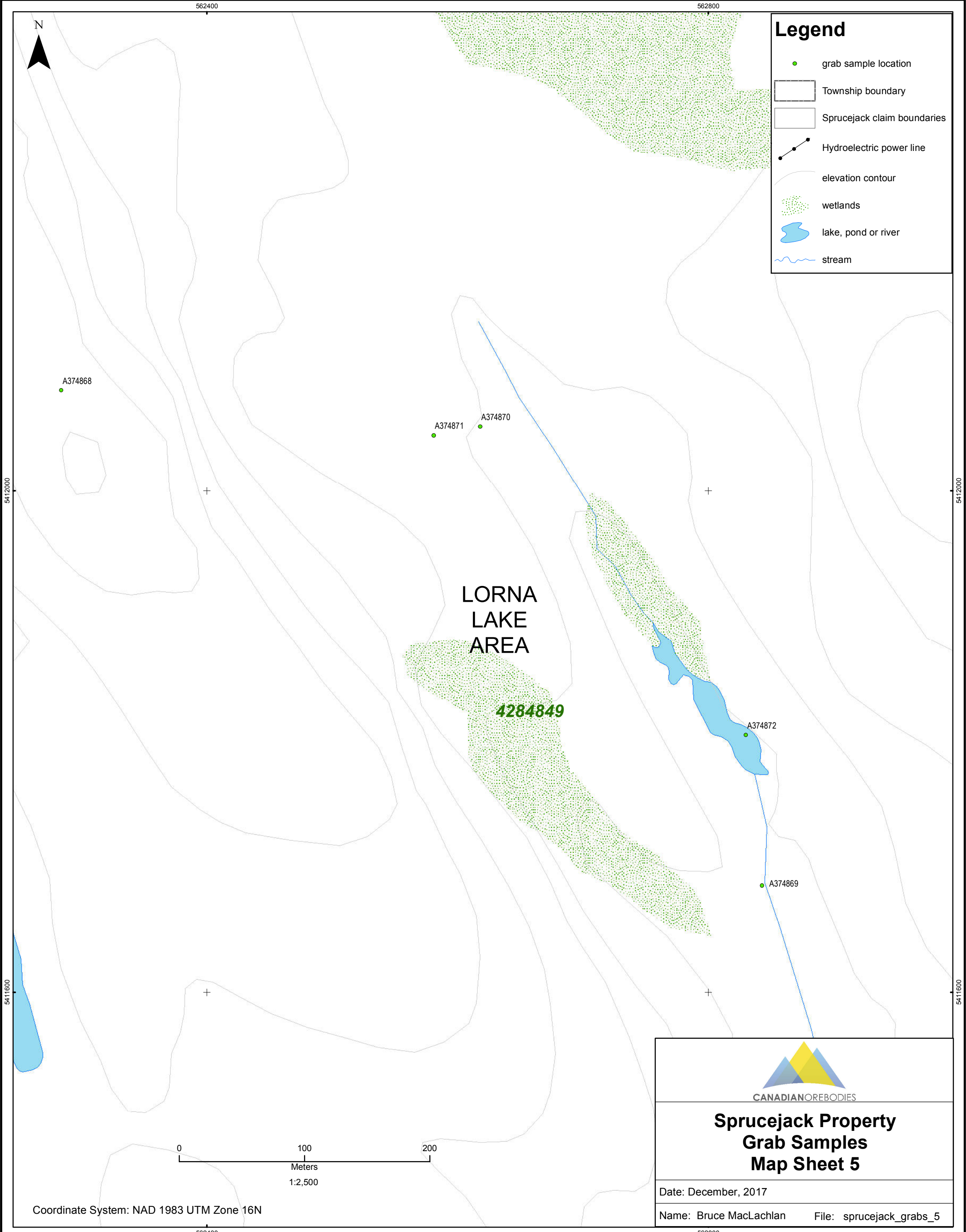
Date: December, 2017

Name: Bruce MacLachlan File: sprucejack_grabs_4



562820

562840



Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

LORNA
LAKE
AREA

4284849

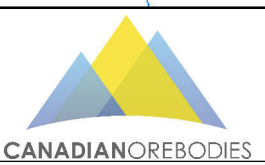
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A374871

A374870

A374872

A374869

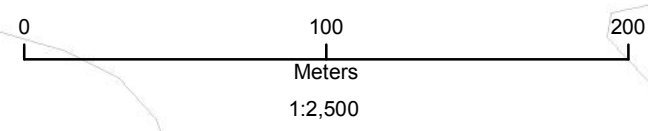


CANADIAN ORE BODIES

**Sprucejack Property
Grab Samples
Map Sheet 5**

Date: December, 2017

Name: Bruce MacLachlan File: sprucejack_grabs_5



Coordinate System: NAD 1983 UTM Zone 16N

562400

562800

5412000

5412000

5411800

5411800

562220

562230

562240



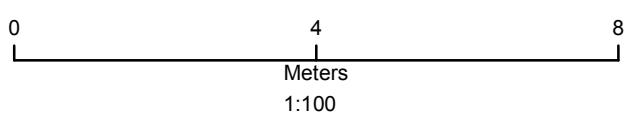
Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

LORNA LAKE AREA

- A374859
- A374860
- A374861
- A374862
- A374863
- A374864
- A374865
- A374866

4284849



Coordinate System: NAD 1983 UTM Zone 16N



Sprucejack Property Grab Samples Map Sheet 6

Date: December, 2017

Name: Bruce MacLachlan

File: sprucejack_grabs_6

562220

562230

562240

5411980

5411970

5411960

5411950

5411980

5411970

5411960

5411950

562000

562000



Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

A374830

A374831

A374836

A374835

A374834

A374833

A374832

A374837

A374838

A374839

A374840

A374841

A374842

A374827

A374867

LORNA
LAKE
AREA

4284849

A374850

A374849

A374848

A374847

A374846

A374845

A374844

A374843

A374808

A374807

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A374810

A374811

A374812

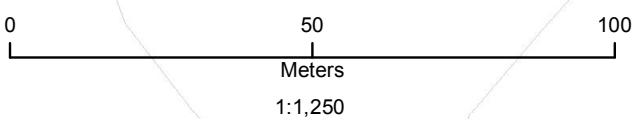
A374813

Contact
Lake

A374817

A374816

A374818



Coordinate System: NAD 1983 UTM Zone 16N



Sprucejack Property Grab Samples Map Sheet 7

Date: December, 2017

Name: Bruce MacLachlan

File: sprucejack_grabs_7

562000

562000

5412200

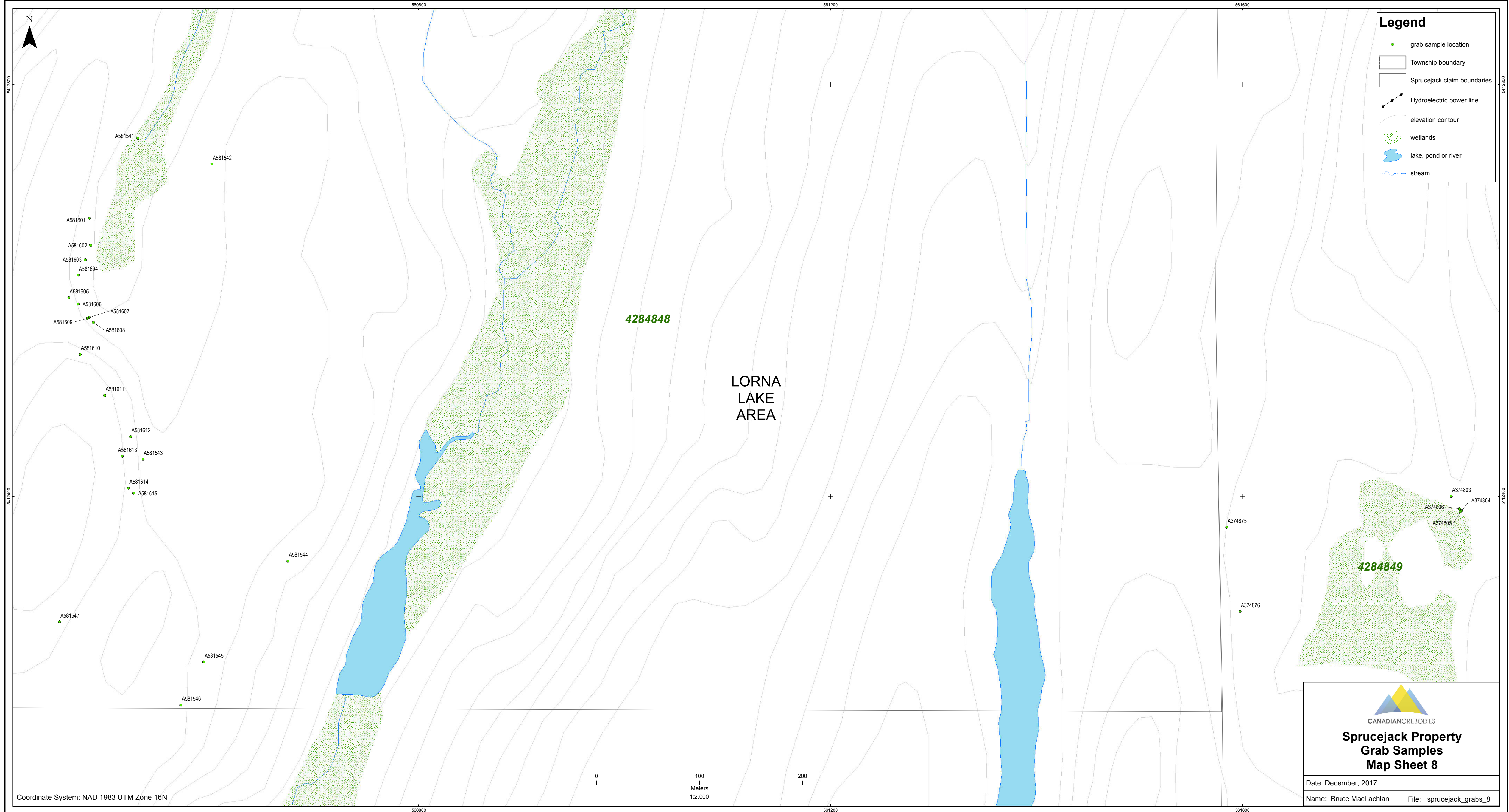
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5411800

5412200

5412000

5411800



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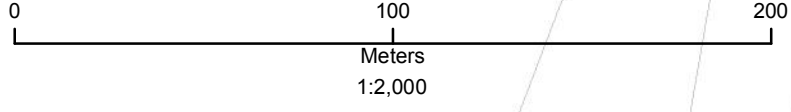
- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

428488

LORNA
LAKE
AREA

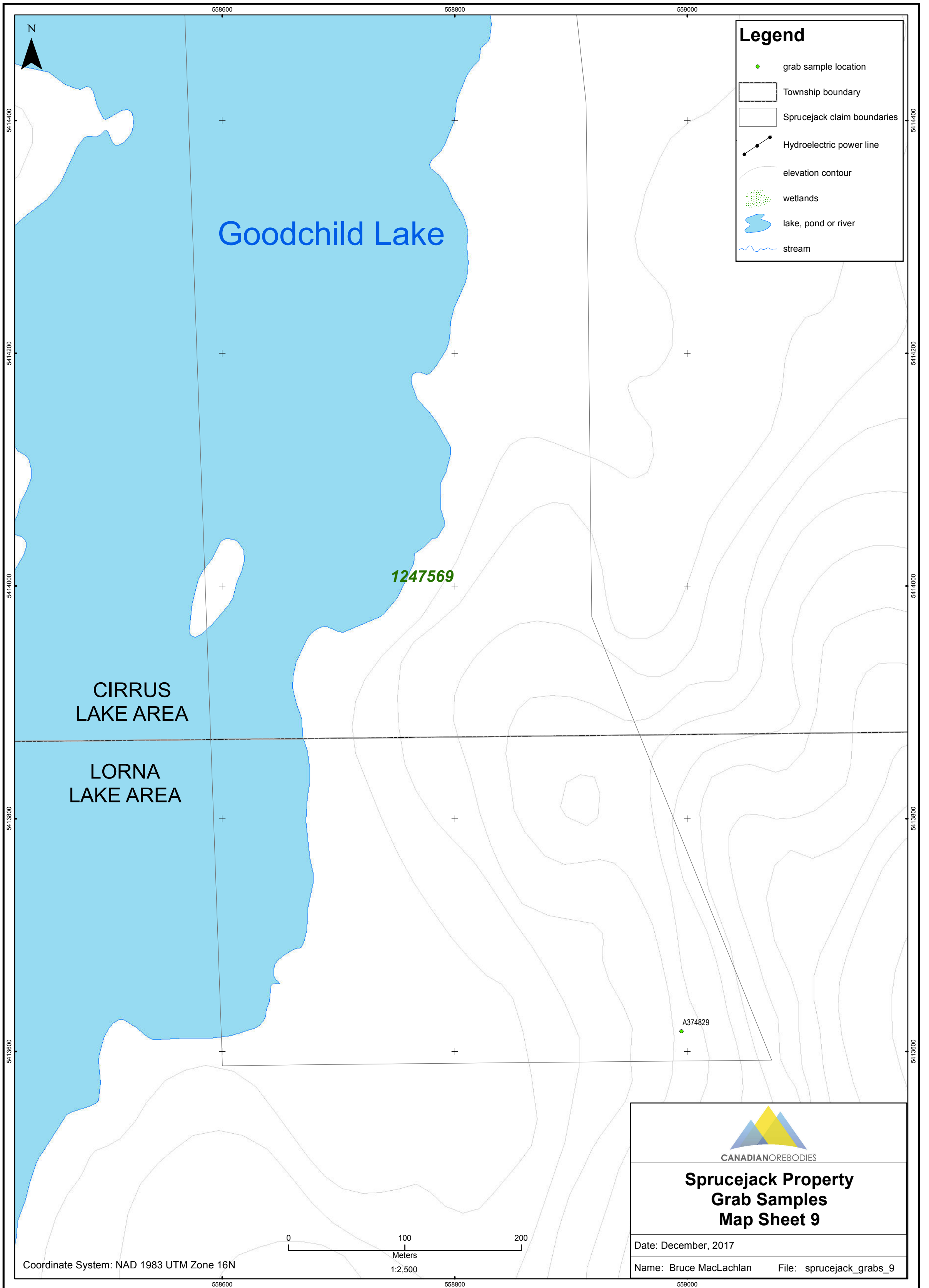
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Coordinate System: NAD 1983 UTM Zone 16N



**Sprucejack Property
Grab Samples
Map Sheet 8**

Date: December, 2017
Name: Bruce MacLachlan File: sprucejack_grabs_8



Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

Goodchild Lake

CIRRUS LAKE AREA

LORNA LAKE AREA

1247569

A374829

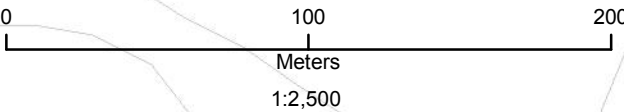


**Sprucejack Property
Grab Samples
Map Sheet 9**

Date: December, 2017

Name: Bruce MacLachlan File: sprucejack_grabs_9

Coordinate System: NAD 1983 UTM Zone 16N





Legend

- grab sample location
- Township boundary
- Sprucejack claim boundaries
- Hydroelectric power line
- elevation contour
- wetlands
- lake, pond or river
- stream

Pukatawagan Lake

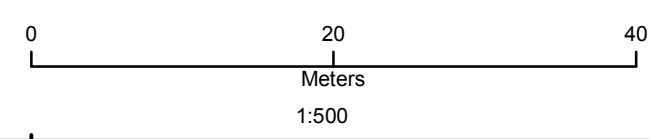
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- W072946
- W072947
- W072948
- W072949
- W073263
- W073252
- W072950
- W073251
- W072943
- W072944

actual shoreline


historical shoreline

4284847

MARTINET
LAKE AREA



Coordinate System: NAD 1983 UTM Zone 16N



CANADIANOREBODIES

Sprucejack Property Grab Samples Map Sheet 10

Date: December, 2017

Name: Bruce MacLachlan File: sprucejack_grabs_10

553150 553200 553250

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