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**STRUCTURAL MAPPING REPORT**  
**ON THE**  
**HAMILTON PROPERTY**  
**COLEMAN TOWNSHIP**  
**LARDER LAKE MINING DIVISION, NORTHEASTERN ONTARIO**  
**FOR**  
**COBALT INDUSTRIES OF CANADA INC.**

**Prepared by:**

**David R. Jamieson, P.Geol.**

**David Lewis, P.Geol.**

**Nov 8<sup>th</sup>, 2018**

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MAP: 1:2,500 scale Bedrock Geology, Hamilton Property

## 1. SUMMARY

This Technical Report has been prepared for the purpose of fulfilling the Technical Standards for Reporting Assessment Work, under the provisions of the Mining Act.

The Property is located in Coleman township and Gillies Limit approximately 3 km southwest of Cobalt, Ontario (Figure 1).

In the fall of 2017, and summer of 2018 First Cobalt Corp personnel performed structural mapping on the Hamilton property. In conjunction with this a photomosaic of the property was created using data from a UAV (Unmanned Aerial Vehicle) survey completed in 2018.

The Property is located within the Cobalt embayment in the Southern Abitibi greenstone belt. The Property geology is dominated by Archean mafic volcanics, with the eastern edge overlain by sedimentary rocks of the Gowganda Formation, part of the Huronian Supergroup. East-west trending structures within the Huronian sediments host calcite-quartz-sulpharsenide-silver veins typical of the Cobalt mining camp.

Additional exploration is warranted in historic areas of trenching south of Moffat Lake and along a trend toward the Hamilton shaft area.

## 2. INTRODUCTION AND PROPERTY LOCATION

In June of 2017, a contiguous block of 4 claims were optioned from George and Heather Pollock to Cobalt Camp Ontario Holdings Corp. and subsequently conveyed to Cobalt Industries of Canada Inc., a subsidiary of First Cobalt Corp (See table 1). This Technical Report provides a summary and description of results from exploration work carried out by First Cobalt personnel.

The Property is located in Coleman township and Gillies Limit approximately 3 km southwest of Cobalt, Ontario (Figure 1). Access is via highway 11B from Cobalt to a gravel road heading south from Green Lake (Figure 2). The local terrain is variable from swamps to steep cliffs. Typical vegetation on the Property consists of a boreal forest with a mixture of coniferous and deciduous trees, including poplar, white birch, red pine, white pine, white spruce, black spruce, balsam, cedar, and alders.

The historic Hamilton shaft and workings are located on the eastern part of the claim block.

The Hamilton property was mapped by David Lewis and field assistant on November 3, 2017 with Rémi Germain, then for four days' detailed mapping was done on June 15, 16, 17, and 20, 2018 with field assistant Russell Johnson. The purpose of the 2017 reconnaissance mapping was to document the major rock types, visit the historic Hamilton shaft and sample the Hamilton muckpile. The 2018 follow-up mapping was done to further constrain the lithological units, identify geological structures and to document the locations of historic shafts, pits, adits and trenches. A georeferenced photomosaic of the property was created using a UAV during the 2018 field season and was used to aid geological interpretation.

This report has been prepared based on data provided by First Cobalt field crews as well as publicly available information including assessment files, technical papers, and other information made available by the Pollocks and their consultants. The map was drafted and finalized by David Lewis.

For geographical reference purposes, all UTM locations used in this Technical Report use NAD83 Zone 17N projection. Tenure information presented in this Technical Report was valid on the MLAS website on Sept 30<sup>th</sup>, 2018.



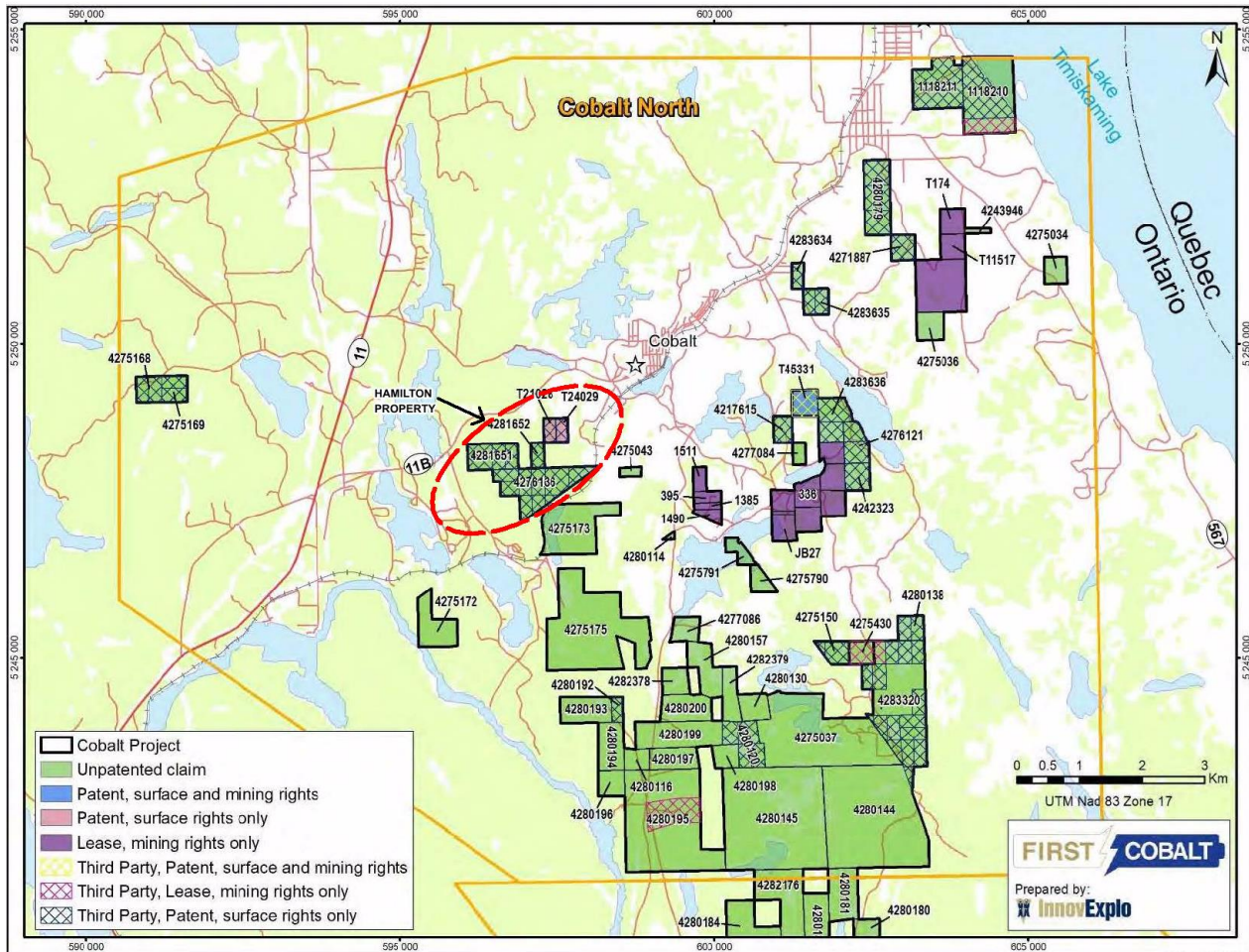


Figure 1: Location of the Hamilton property

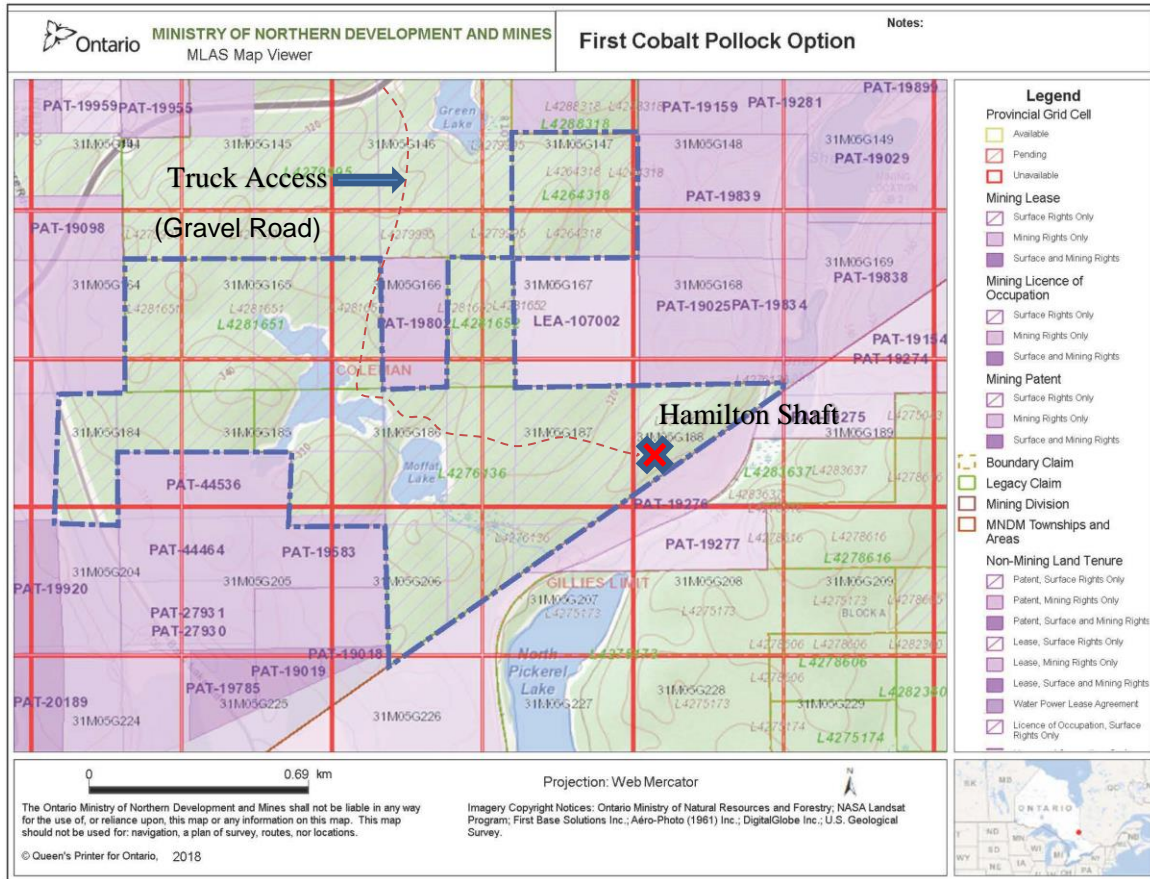


Figure 2: Land Tenure of the Hamilton Property (blue dashed outline)

Table 1: Tenure List for Hamilton Property

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date
4264318	COLEMAN	214133	Boundary Cell Mining Claim	2018-11-28
4264318	COLEMAN	261581	Single Cell Mining Claim	2018-11-28
4264318	COLEMAN	214135	Boundary Cell Mining Claim	2018-12-21
4264318	COLEMAN	214134	Boundary Cell Mining Claim	2018-11-28
4276136	COLEMAN	131429	Single Cell Mining Claim	2019-12-16
4276136	COLEMAN,GILLIES LIMIT	338243	Boundary Cell Mining Claim	2019-12-16
4276136	COLEMAN,GILLIES LIMIT	279281	Single Cell Mining Claim	2019-12-16
4276136	COLEMAN,GILLIES LIMIT	279280	Boundary Cell Mining Claim	2019-12-16
4276136	COLEMAN,GILLIES LIMIT	250752	Single Cell Mining Claim	2019-12-16
4276136	COLEMAN,GILLIES LIMIT	250751	Single Cell Mining Claim	2019-12-16
4276136	COLEMAN,GILLIES LIMIT	163986	Boundary Cell Mining Claim	2019-12-16
4276136	COLEMAN	279283	Single Cell Mining Claim	2019-12-16
4276136	COLEMAN	279282	Single Cell Mining Claim	2019-12-16
4281651	COLEMAN	313050	Single Cell Mining Claim	2018-12-21
4281651	COLEMAN	313049	Boundary Cell Mining Claim	2018-12-21
4281651	COLEMAN	186744	Boundary Cell Mining Claim	2018-12-21
4281651	COLEMAN	157867	Boundary Cell Mining Claim	2018-12-21
4281652	COLEMAN	131429	Single Cell Mining Claim	2019-12-16
4281652	COLEMAN,GILLIES LIMIT	279281	Single Cell Mining Claim	2019-12-16
4281652	COLEMAN	214135	Boundary Cell Mining Claim	2018-12-21
4281652	COLEMAN	186744	Boundary Cell Mining Claim	2018-12-21

### 3. REGIONAL GEOLOGY

The claim block is located within the geological domain known as the Cobalt Embayment, a circular Proterozoic-age sedimentary basin underlain by Archean volcanic, sedimentary, mafic intrusive, and granitoid units related to the southern extent of the Abitibi Subprovince. The Archean units are unconformably overlain by relatively flat-lying to openly-folded early



Proterozoic Huronian Supergroup sedimentary rocks. In the Cobalt Embayment, the Huronian Supergroup consists solely of the Cobalt Group (lacking the underlying Elliot Lake, Hough Lake and Quirke Lake groups) and it comprises the Gowganda Formation and overlying Lorrain Formation. The Gowganda Formation consists (comprised from bottom to top) of the glaciogenic Coleman Member (conglomeratic diamictite, rhythmite, and sandstone), and the basal mudstone, argillite, siltstone, and sandstone of the Firstbrook Member. The Lorrain Formation is an unsubsided member consisting of sandstone, arenite, and greywacke (Legun, 1986). The sedimentary rocks are intruded by diabase and gabbroic intrusions of the 2219-2209 Ma Nipissing sills and dykes (Corfu and Andrews, 1986; Noble and Lightfoot, 1992). Economic mineralization of the Cobalt area includes extensive historic mining of silver-bearing polymetallic (Ag-Ni-Co-Cu-Bi) carbonate and quartz veins, which occur in faults and fractures of all rock types, but notably proximal to Nipissing sills, and the Archean/Proterozoic unconformity.

#### **4. PROPERTY GEOLOGY**

The Hamilton property is dominated by Archean volcanic and sedimentary rocks, with minor overlying Coleman sedimentary rocks located near the eastern end of the property (Thomson, 1964). The Archean volcanic rocks are for the most part, mafic to intermediate composition, generally with pillowed to massive flow facies. Minor Archean interflow sedimentary rocks are known from the Hamilton muckpile and host the local Ag-Co veins (Sergiades, 1968). The Huronian sedimentary rocks are restricted to the conglomeratic (diamictite) phase of the Coleman Member of the Gowganda Formation. Several undifferentiated mafic dikes cut the Archean and Proterozoic rocks, including a laterally extensive, north-trending dike that bisects the property.

The major local structure is the western extent of the Cobalt Lake fault, a camp-scale structure that is elsewhere associated with veining. Immediately to the east of the property, the Cobalt Lake fault forms the structural contact between Archean and Proterozoic rocks (Thomson, 1964). The fault trends northeast with an unknown dip or sense of displacement.

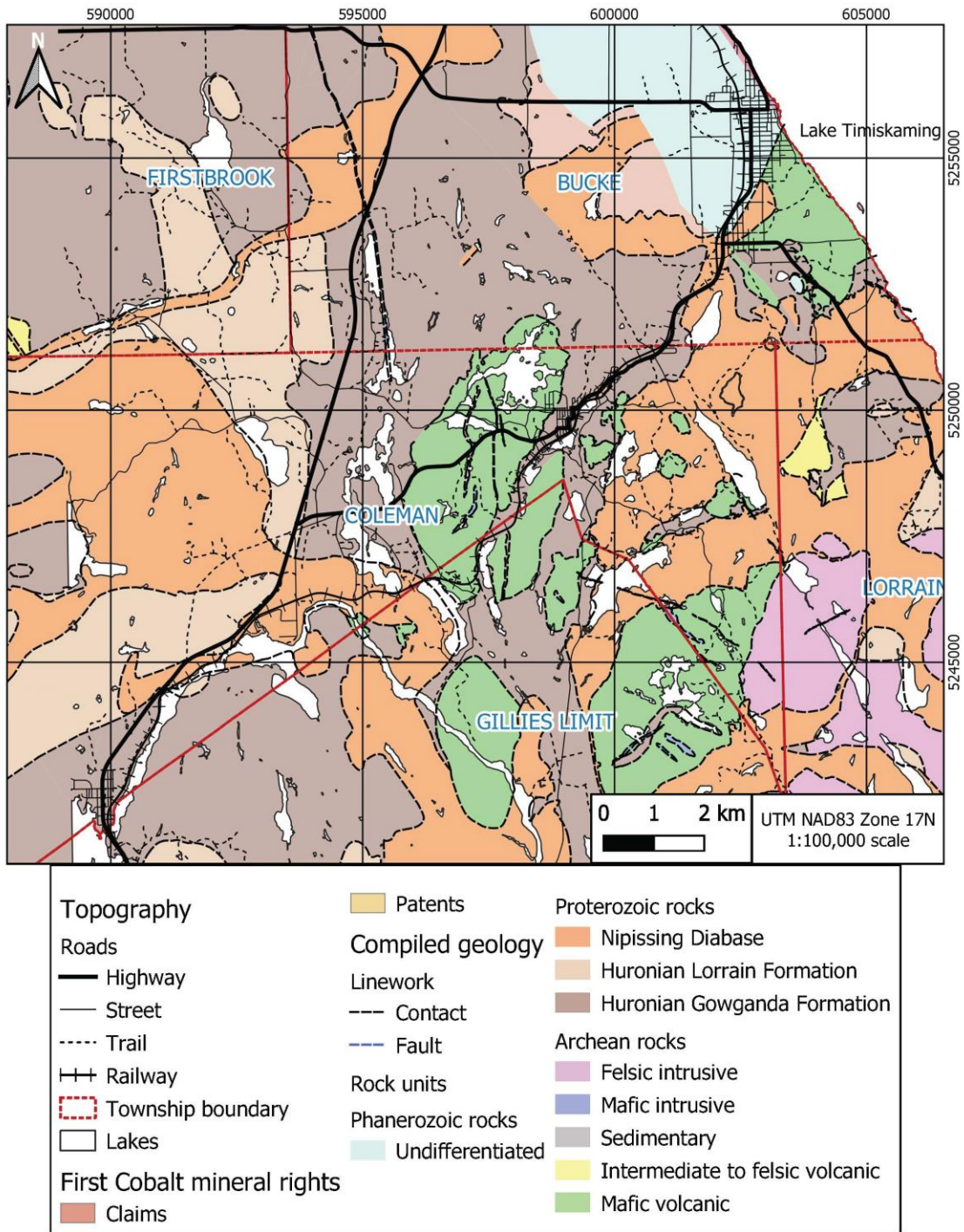


Figure 3 Regional Geology



## 5. HISTORY

The Hamilton shaft is noted to be 100 feet deep with a level at 100 feet and a sublevel at 75 feet. A 30 foot deep winze was sunk from the 100 foot level west of the shaft. Production was very limited in 1938 and 1939, indicated to be 354 lbs of cobalt and 3 ounces of silver (Sergiades 1968)

Sampling of the muck pile near the Hamilton shaft was done by Canagco Mining Corp. in 2013. Three selected mineralized samples assayed from 0.94% to 5.48% cobalt.

## 6. WORK PROGRAM

The Hamilton property was mapped by David Lewis and field assistant during two intervals; first for reconnaissance purposes on November 3, 2017 with Rémi Germain, then for four days' detailed mapping on June 15, 16, 17, and 20, 2018 with Russell Johnson. The purpose of the 2017 reconnaissance mapping was to document the major rock types, visit the historic Hamilton shaft and sample the Hamilton muckpile. The 2018 follow-up mapping was done to further constrain the lithological units, identify geological structures and to document the locations of historic shafts, pits, adits and trenches.

The major rock unit throughout the Hamilton property is a fine-grained, variably-altered Archean mafic volcanic flow. Massive and pillowed flow facies dominate, although lesser volcanoclastic rocks are located near the northwestern shore of Moffat Lake. The selvages in the pillowed flows are generally thin, approximately 2-3 cm wide. Flow younging direction can be obtained by pillow tails and draped pillows. Minor, fine- to medium-grained, quartz-phyric felsic volcanoclastic rocks are locally interbedded with the mafic rocks. The interbedded graphitic sediments described by Sergiades (1968) were observed only in the Hamilton muckpile and not on surface. These interflow sedimentary rocks are thinly-bedded to laminated graphitic shales, folded on grab-sample scale.

The Proterozoic Huronian Supergroup sedimentary rocks were observed along the eastern extent of the property where they unconformably overlie the basal Archean rocks. These flatlying units are dominated by conglomerate, although minor sandstone is also preserved. In one locality, at or immediately above the Proterozoic-Archean unconformity, laminated to thinly-bedded sandstone is preserved (Station 18DL114; Appendix B).

Near the center of the property, a subvertical, NE-striking, medium-grained mafic dike of unknown affinity or age occurs. It was traced along strike for 50 m, but mapping by Thomson (1964) suggests that it extends to the north for at least 700m.

Several phases of deformation are preserved in the Hamilton property rocks, including an Archean foliation and (up to) three generations of Proterozoic foliations as well as several faults. The earliest foliation, most likely Archean as it is not present in the Proterozoic rocks, consists of a pervasive compressional chloritic foliation that intensifies into (brittle-ductile) sheared rocks. The fabric strikes NW-SE and dips steeply. It is most likely associated with an E-W trending shear zone which cuts the rocks immediately north of Moffat Lake. Two orientations of indistinguishable, early Proterozoic foliations are present in both the Archean and Proterozoic rocks. One is oriented subparallel to the Cobalt Lake fault and the second is consistently oriented clockwise to the earlier Proterozoic foliation and it is rotated in an anticlockwise manner as it approaches the Cobalt Lake fault. A late, NNW-striking Proterozoic spaced foliation overprints the earlier fabrics.

Three faults were observed at the Hamilton property. A NW-striking, steeply-dipping shear zone occurs in the Archean mafic volcanic rocks. It cuts and offsets an E-striking shear zone that occurs within the Archean rocks. At the shear zone intersection at Moffat Lake, a shaft was sunk. At the west shore of the unnamed lake immediately northwest of Moffat Lake, an adit occurs at this fault extension. Tentatively, both faults are interpreted as Archean structures that were reactivated in the Proterozoic. To the east, in the Coleman conglomerate, a thin, shallowly south-dipping brittle fault plane was mapped (Station 18DL115, 116).

During the course of this mapping, ten bedrock samples were collected for geochemical analysis. The location and description of these samples is shown in Appendix A. Ten samples with 1 standard (OREAS 902) were submitted for analysis to AGAT Laboratories for sodium peroxide fusion with ICP finish.

## 7. INTERPRETATION AND CONCLUSIONS

Mapping work located a previously unmapped felsic unit with the Archean volcanic stratigraphy. Several Proterozoic-aged foliations were also recognized, possibly in some cases related to what appear to be reactivated Archean faults. An area of trenches south of Moffat Lake are on a southwest trend from the Hamilton-Red Jacket shaft areas and may represent a structural trend worthy of further exploration. A small outlier of Huronian sediments in this area supports the idea that this area is proximal to the Archean-Huronian unconformity, a key control for silver-cobalt mineralization.

Samples E6097360 and E6097361 both show slightly elevated Ba, and Zn, indicating at least some degree of hydrothermal alteration related to the sheared and faulted nature of the rock samples. Arsenopyrite was observed in sample E6097358, and assaying indicated anomalous values of arsenic (225 ppm), cobalt (148 ppm), nickel (169 ppm), sulphur (1.58%), molybdenum (35 ppm), and antimony (1.5 ppm).

## 8. RECOMMENDATIONS

Additional detailed mapping and prospecting is recommended to follow up on the 2018 field work in the area between the Hamilton shaft and the area southeast of Moffat Lake. Although much of the that area is relatively low-lying, there may be potential to locate subcrop that could be exposed by hand or power stripping. Geochemical soil survey's may also help evaluate this area. Mechanical trenching could be used in poorly exposed bedrock areas, if prospecting and soil survey's warrant.

## 9. PERSONNEL

David Lewis	Structural Geologist	First Cobalt Corp.
Remi Germain	Field Assistant	First Cobalt Corp.
Russell Johnson	Field Assistant	First Cobalt Corp.

## 10. REFERENCES

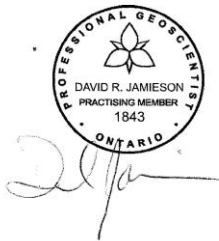
- Corfu, F., and Andrews, A.J. 1986. A U-Pb age for mineralized Nipissing diabase, Gowganda, Ontario. *Canadian Journal of Earth Sciences*, 23: 107-109.
- Legun, A. 1986. Huronian Stratigraphy and Sedimentation in the Cobalt Area. Ontario Geological Survey Miscellaneous Paper 124, 24p. Accompanied by 3 charts.
- Noble, S.R., and Lightfoot, P.C. 1992. U-Pb baddeleyite ages of the Kerns and Triangle Mountain intrusions, Nipissing Diabase, Ontario. *Canadian Journal of Earth Sciences*, 29: 1424-1429.
- Sergiades, A. O. 1968. Silver Cobalt Calcite Vein Deposits of Ontario; Mineral Resources Circular No. 10, Ontario Department of Mines: 192-193.
- Thomson, R. 1964. Cobalt Silver Area, Northern Sheet, Timiskaming District. Ontario Department of Mines, Map M2050, scale 1:12,000.

## CERTIFICATE OF QUALIFICATION

I, David R. Jamieson do hereby certify that:

1. I am a Professional Geoscientist in the Province of Ontario with an office at 555 Maniece Avenue, Peterborough, Ontario.
2. I graduated with the degree of Bachelor of Honours Science from the University of Waterloo (1984) and have been a consulting geologist since 2000.
3. This certificate is to accompany the report titled "Structural Mapping Report on the Hamilton Property Project, Coleman township, Larder lake Mining Division, Northeastern Ontario for Cobalt Industries of Canada Inc."
4. I am a registered Professional Geoscientist with the Association of Professional Geoscientists of Ontario (APGO #1843).
5. I have worked as a geologist for over 30 years since my graduation from university, on a wide variety of gold and base metal exploration projects, including project management and property evaluations. Many of these projects have been located in the Abitibi greenstone belt.

Dated this 10<sup>th</sup> Day of November 2018



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David Jamieson, P.Geol.



## Statement of Qualification

I, DAVID T. LEWIS, of Whitby, Ontario, DO HEREBY CERTIFY THAT:

1. I am a Professional Geologist in the Province of Ontario, working with First Cobalt Corporation, with an office at 140 Yonge Street, Toronto, Ontario.
2. I am a graduate of Geological Sciences with a Bachelor's of Science degree from the University of Saskatchewan in 2006. I am also a graduate of Geology with a Master's of Science degree from Laurentian University in 2012. I have practiced my profession as a Professional Geologist since graduation.
3. I am a Registered Professional Geoscientist in good standing with the Association of Professional Geoscientists of Ontario (No. 2135).
4. This certificate is to accompany the report titled "Structural Mapping Report on the Hamilton Property Project, Coleman Township, Larder Lake Mining Division, Northeastern Ontario for Cobalt Industries of Canada Inc."
5. I have worked as a geologist for 15 years on a wide variety of projects, mainly with a bedrock mapping or structural geological focus. Many of these projects have been located in the Superior Province in Ontario.

Respectfully submitted by,

*David Lewis*

David T. Lewis, M.Sc., P. Geo.

Senior Geologist, First Cobalt Corp.

# **APPENDIX A**

## Sample Locations and Rock Types

Hamilton Lewis Mapping Samples

	UTM NAD83 Zone 17N		
<b>Name</b>	<b>Easting (m)</b>	<b>Northing (m)</b>	<b>Rock type</b>
E6097351	597737	5247826	Coleman conglomerate
E6097352	597340	5247762	Mafic volcanic
E6097353	597262	5247724	Mafic volcanic
E6097354	597154	5247647	Mafic volcanic
E6097355	597127	5247571	Mafic volcanic
E6097356	597059	5247782	Faulted mafic volcanic with arsenopyrite
E6097357	597229	5247869	Faulted mafic volcanic
E6097359	597490	5247889	Mafic volcanic
E6097360	596817	5247973	Faulted mafic volcanic
E6097361	596739	5247970	Sheared mafic volcanic

# **APPENDIX B**

## Waypoint descriptions

Hamilton Lewis Mapping Waypoints

Station	UTM NAD83 Zone 17N		Elevation (m)	Primary rock unit	Textures	Secondary rock unit
	Easting (m)	Northing (m)				
17DL293	597018	5247269	309	Archean mafic volcanic - massive	-	-
17DL294	597009	5247503	321	Archean mafic volcanic - massive	Breccia	-
17DL295	597172	5247527	317	Proterozoic conglomerate	-	-
17DL296	597005	5247656	324	Archean mafic volcanic - pillowed	Breccia	-
17DL297	596928	5247762	320	Archean mafic volcanic - pillowed	-	-
17DL298	596825	5248055	322	Archean mafic volcanic - pillowed	Breccia	-
17DL299	597305	5247843	319	Archean mafic volcanic - pillowed	-	-
17DL300	597603	5247906	308	Archean mafic volcanic - pillowed	-	-
17DL301	597737	5247830	317	Proterozoic conglomerate	-	-
18DL108	597737	5247826	334	Proterozoic conglomerate	-	-
18DL109	597707	5247781	329	Proterozoic conglomerate	-	-
18DL110	597824	5247748	313	Proterozoic conglomerate	-	-
18DL111	597714	5247845	328	Proterozoic conglomerate	-	-
18DL112	597733	5247909	329	Proterozoic conglomerate	-	-
18DL113	597732	5247955	330	Proterozoic conglomerate	-	-
18DL114	597729	5247958	323	Proterozoic sandstone	-	-
18DL115	597883	5247948	332	Proterozoic sandstone	-	-
18DL116	597907	5247924	332	Proterozoic conglomerate	-	-
18DL117	597985	5247888	329	Proterozoic conglomerate	-	-
18DL118	597910	5247867	338	Proterozoic conglomerate	-	-
18DL119	597339	5247762	325	Archean mafic volcanic - pillowed	-	-
18DL120	597262	5247724	325	Archean mafic volcanic - massive	-	-
18DL121	597154	5247647	319	Archean mafic volcanic - massive	-	-
18DL122	597097	5247592	321	Archean mafic volcanic - massive	-	-
18DL123	597127	5247571	323	Archean mafic volcanic - massive	-	-
18DL124	597048	5247497	327	Archean mafic volcanic - pillowed	-	-
18DL125	597112	5247495	328	Archean mafic volcanic - massive	-	-
18DL126	597063	5247755	324	Archean mafic volcanic - pillowed	-	-
18DL127	597059	5247782	315	Archean mafic volcanic - massive	-	-
18DL128	597228	5247869	334	Archean mafic volcanic - pillowed	-	-
18DL129	597246	5247849	329	Archean mafic volcanic - massive	-	-
18DL130	597300	5247839	330	Archean mafic volcanic - pillowed	-	-
18DL131	597592	5247895	326	Archean mafic volcanic - pillowed	-	-
18DL132	597490	5247889	334	Archean mafic volcanic - massive	-	-

Hamilton Lewis Mapping Waypoints

	UTM NAD83 Zone 17N					
Station	Easting (m)	Northing (m)	Elevation (m)	Primary rock unit	Textures	Secondary rock unit
18DL133	596812	5247998	329	Archean mafic volcanic - pillowed	-	-
18DL134	596817	5247973	328	Archean mafic volcanic - volcanoclastic	-	-
18DL135	596739	5247970	328	Archean mafic volcanic - pillowed	-	Undifferentiated mafic intrusive
18DL136	596848	5247975	327	Archean mafic volcanoclastic	Breccia	-
18DL137	596847	5247902	325	Archean mafic volcanic - pillowed	-	-
18DL138	596928	5247769	329	Archean mafic volcanic - pillowed	-	-
18DL139	596771	5248054	328	Archean mafic volcanic - pillowed	-	-
18DL140	596697	5248148	325	Archean mafic volcanic - pillowed	-	Undifferentiated mafic intrusive
18DL141	596593	5248197	324	Undifferentiated mafic intrusive	-	-
18DL142	596495	5248237	327	Archean mafic volcanic - pillowed	-	-
18DL143	596480	5248200	324	Archean mafic volcanic - pillowed	-	-
18DL144	596752	5248175	325	Archean felsic volcanoclastic	-	-
18DL145	596787	5248168	324	Archean felsic volcanoclastic	-	Archean mafic volcanic - pillowed
18DL146	596807	5248061	326	Archean mafic volcanic - pillowed	-	-

# APPENDIX C

## Assay Certificates



CLIENT NAME: FIRST COBALT CORP  
488-1090 W GEORGIA  
VANCOUVER, BC V6E 3V7  
604-687-7130

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

PROJECT: FLD-033

AGAT WORK ORDER: 18B392096

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 18, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 18B392096

PROJECT: FLD-033

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

### (200-) Sample Login Weight

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 01, 2018

DATE REPORTED: Oct 18, 2018

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E6097351 (9591704)		1.23
E6097352 (9591705)		1.56
E6097353 (9591706)		2.03
E6097354 (9591707)		1.50
E6097355 (9591708)		1.21
E6097356 (9591709)		1.73
E6097357 (9591710)		3.75
E6097358 (9591711)		0.01
E6097359 (9591712)		1.66
E6097360 (9591713)		2.10
E6097361 (9591714)		1.83
E6097362 (9591715)		1.41
E6097363 (9591716)		1.21
E6097364 (9591717)		1.12
E6097365 (9591718)		1.59
E6097366 (9591719)		1.43
E6097367 (9591720)		1.74
E6097368 (9591721)		0.56
E6097369 (9591722)		1.22
E6097370 (9591723)		0.59
E6097371 (9591724)		1.88
E6097372 (9591725)		0.01
E6097373 (9591726)		0.79
E6097374 (9591727)		1.66
E6097375 (9591728)		1.11

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B392096

PROJECT: FLD-033

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
http://www.agatlabs.com

CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

## (201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 01, 2018

DATE REPORTED: Oct 18, 2018

SAMPLE TYPE: Rock

Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E6097351 (9591704)	<1	6.93	28	25	616	<5	0.2	1.31	<0.2	33.0	25.8	0.017	2.0	18
E6097352 (9591705)	<1	7.69	12	<20	120	<5	0.2	5.64	<0.2	11.2	41.3	0.021	0.6	38
E6097353 (9591706)	<1	7.91	7	21	157	<5	<0.1	5.51	<0.2	11.7	58.0	0.019	0.6	96
E6097354 (9591707)	<1	8.03	<5	<20	19.6	<5	<0.1	6.73	0.3	9.9	56.8	0.024	0.2	101
E6097355 (9591708)	<1	8.03	<5	<20	24.7	<5	<0.1	7.89	<0.2	9.7	48.8	0.023	0.2	107
E6097356 (9591709)	<1	6.80	225	<20	33.7	<5	0.1	6.11	<0.2	15.1	148	0.022	0.1	165
E6097357 (9591710)	<1	7.94	6	<20	101	<5	<0.1	5.77	<0.2	11.2	58.1	0.026	0.4	108
E6097358 (9591711)	<1	4.49	583	128	175	<5	8.2	4.10	<0.2	73.9	1040	0.006	2.7	2990
E6097359 (9591712)	<1	8.17	<5	<20	38.3	<5	0.2	6.15	<0.2	10.0	54.1	0.026	0.3	95
E6097360 (9591713)	<1	7.41	19	<20	123	<5	<0.1	3.81	0.4	9.7	52.1	0.022	0.4	106
E6097361 (9591714)	<1	7.32	<5	<20	318	<5	<0.1	5.79	<0.2	20.5	60.6	0.019	1.5	84

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B392096  
 PROJECT: FLD-033

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish															
DATE SAMPLED: Oct 01, 2018	DATE RECEIVED: Oct 01, 2018					DATE REPORTED: Oct 18, 2018					SAMPLE TYPE: Rock				
Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %	
Sample ID (AGAT ID)	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01	
E6097351 (9591704)	1.11	619	4	5	14.7	37	0.04	8	3.78	54.6	0.64	0.9	11	30.3	
E6097352 (9591705)	1.94	1500	3	3	8.1	91	0.04	11	1.64	12.5	0.05	0.7	43	24.8	
E6097353 (9591706)	3.00	1760	<2	3	8.7	111	0.04	<5	1.72	27.0	0.05	<0.1	46	22.9	
E6097354 (9591707)	3.01	1680	<2	2	7.4	115	0.03	18	1.49	1.9	0.08	0.5	42	22.5	
E6097355 (9591708)	1.93	1930	<2	2	7.5	108	0.03	5	1.45	2.7	0.09	0.5	42	22.6	
E6097356 (9591709)	2.75	1560	35	3	9.1	91	0.03	26	2.00	0.9	0.76	0.6	34	25.1	
E6097357 (9591710)	2.70	1450	<2	3	7.9	142	0.04	<5	1.62	10.4	0.13	<0.1	41	24.3	
E6097358 (9591711)	2.59	447	12	9	30.8	168	0.07	12	8.18	111	1.58	1.5	7	27.2	
E6097359 (9591712)	2.72	2240	<2	3	8.1	121	0.04	<5	1.54	5.3	0.10	0.6	45	23.1	
E6097360 (9591713)	3.85	1500	<2	2	6.8	104	0.04	29	1.39	18.0	0.05	0.2	41	22.7	
E6097361 (9591714)	3.69	2670	<2	2	9.9	97	0.03	6	2.25	11.7	0.07	0.3	34	21.2	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	

Certified By: 



# Certificate of Analysis

AGAT WORK ORDER: 18B392096

PROJECT: FLD-033

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

### (201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 01, 2018	DATE RECEIVED: Oct 01, 2018	DATE REPORTED: Oct 18, 2018	SAMPLE TYPE: Rock												
Analyte: Unit: RDL:	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti %	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm	
Sample ID (AGAT ID)	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1	
E6097351 (9591704)	2.8	2	262	<0.5	0.36	4.6	0.22	<0.5	0.18	1.50	70	1	11.3	1.3	
E6097352 (9591705)	2.6	<1	441	<0.5	0.56	0.5	0.63	<0.5	0.37	0.12	305	<1	22.1	2.4	
E6097353 (9591706)	2.7	<1	144	<0.5	0.59	0.5	0.65	<0.5	0.35	0.10	324	<1	22.4	2.4	
E6097354 (9591707)	2.2	2	152	<0.5	0.53	0.4	0.61	<0.5	0.34	0.10	286	<1	20.9	2.3	
E6097355 (9591708)	2.3	<1	184	<0.5	0.55	0.4	0.59	<0.5	0.36	0.09	294	<1	21.7	2.4	
E6097356 (9591709)	2.1	<1	272	<0.5	0.43	0.4	0.58	<0.5	0.26	0.29	255	4	16.1	1.6	
E6097357 (9591710)	2.4	<1	143	<0.5	0.52	0.4	0.62	<0.5	0.31	0.10	276	<1	20.3	2.1	
E6097358 (9591711)	5.5	3	28.4	0.6	0.57	10.6	0.23	0.7	0.26	6.03	57	4	19.0	1.9	
E6097359 (9591712)	2.7	<1	241	<0.5	0.56	0.5	0.64	<0.5	0.38	0.09	305	<1	24.1	2.6	
E6097360 (9591713)	2.1	2	59.0	<0.5	0.42	0.4	0.58	<0.5	0.31	0.10	279	<1	17.0	2.1	
E6097361 (9591714)	2.7	1	216	<0.5	0.55	0.4	0.48	<0.5	0.34	1.18	243	<1	23.0	2.5	
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Certified By:



# AGAT Laboratories

## Certificate of Analysis

AGAT WORK ORDER: 18B392096

PROJECT: FLD-033

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

### (201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 01, 2018

DATE REPORTED: Oct 18, 2018

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Zn	Zr
	Unit: RDL:	ppm 5	ppm 0.5
E6097351 (9591704)		40	140
E6097352 (9591705)		60	68.9
E6097353 (9591706)		91	69.7
E6097354 (9591707)		148	62.5
E6097355 (9591708)		81	60.6
E6097356 (9591709)		63	57.8
E6097357 (9591710)		57	61.1
E6097358 (9591711)		6	175
E6097359 (9591712)		74	66.5
E6097360 (9591713)		326	61.3
E6097361 (9591714)		148	49.0
[REDACTED]		[REDACTED]	[REDACTED]
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[REDACTED]		[REDACTED]	[REDACTED]

Comments: RDL - Reported Detection Limit

Certified By: Sherin Houssef



# Certificate of Analysis

AGAT WORK ORDER: 18B392096

PROJECT: FLD-033

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 01, 2018

DATE REPORTED: Oct 18, 2018

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E6097351 (9591704)		89
E6097370 (9591723)		90
E6097375 (9591728)		81

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9591704	< 1	< 1	0.0%	9591715	< 1	< 1	0.0%	9591727	< 1	< 1	0.0%				
Al	9591704	6.93	6.98	0.7%	9591715	7.66	8.02	4.6%	9591727	0.07	0.05					
As	9591704	28	25	11.3%	9591715	6	5	18.2%	9591727	< 5	< 5	0.0%				
B	9591704	25	24	4.1%	9591715	< 20	< 20	0.0%	9591727	< 20	< 20	0.0%				
Ba	9591704	616	616	0.0%	9591715	64.4	65.4	1.5%	9591727	17.7	19.0	7.1%				
Be	9591704	< 5	< 5	0.0%	9591715	< 5	< 5	0.0%	9591727	< 5	< 5	0.0%				
Bi	9591704	0.2	0.2	0.0%	9591715	0.2	0.2	0.0%	9591727	< 0.1	< 0.1	0.0%				
Ca	9591704	1.31	1.29	1.5%	9591715	3.42	3.64	6.2%	9591727	34.0	33.8	0.6%				
Cd	9591704	< 0.2	< 0.2	0.0%	9591715	< 0.2	< 0.2	0.0%	9591727	< 0.2	< 0.2	0.0%				
Ce	9591704	33.0	31.9	3.4%	9591715	10.2	10.0	2.0%	9591727	0.9	0.8	11.8%				
Co	9591704	25.8	23.7	8.5%	9591715	11.4	11.4	0.0%	9591727	0.8	1.0	22.2%				
Cr	9591704	0.0166	0.0159	4.3%	9591715	0.0075	0.0071	5.5%	9591727	< 0.005	< 0.005	0.0%				
Cs	9591704	1.97	1.91	3.1%	9591715	0.2	0.2	0.0%	9591727	0.2	< 0.1					
Cu	9591704	18	15	18.2%	9591715	46	46	0.0%	9591727	7	7	0.0%				
Dy	9591704	1.98	1.88	5.2%	9591715	0.79	0.84	6.1%	9591727	0.16	0.22					
Er	9591704	1.30	1.25	3.9%	9591715	0.47	0.50	6.2%	9591727	0.142	0.152	6.8%				
Eu	9591704	0.62	0.62	0.0%	9591715	0.333	0.304	9.1%	9591727	< 0.05	< 0.05	0.0%				
Fe	9591704	2.83	2.79	1.4%	9591715	3.42	3.55	3.7%	9591727	0.09	0.08	11.8%				
Ga	9591704	16.5	16.0	3.1%	9591715	19.4	19.5	0.5%	9591727	0.23	0.20	14.0%				
Gd	9591704	2.56	2.44	4.8%	9591715	1.12	1.07	4.6%	9591727	0.21	0.19	10.0%				
Ge	9591704	1	1	0.0%	9591715	< 1	< 1	0.0%	9591727	1	1	0.0%				
Hf	9591704	4	4	0.0%	9591715	2	2	0.0%	9591727	< 1	< 1	0.0%				
Ho	9591704	0.384	0.398	3.6%	9591715	0.179	0.164	8.7%	9591727	< 0.05	< 0.05	0.0%				
In	9591704	< 0.2	< 0.2	0.0%	9591715	< 0.2	< 0.2	0.0%	9591727	< 0.2	< 0.2	0.0%				
K	9591704	1.85	1.86	0.5%	9591715	0.39	0.41	5.0%	9591727	0.05	0.05	0.0%				
La	9591704	15.8	15.3	3.2%	9591715	4.55	4.41	3.1%	9591727	1.1	1.1	0.0%				
Li	9591704	15	15	0.0%	9591715	< 10	< 10	0.0%	9591727	< 10	< 10	0.0%				
Lu	9591704	0.195	0.188	3.7%	9591715	0.07	0.07	0.0%	9591727	< 0.05	< 0.05	0.0%				
Mg	9591704	1.11	1.09	1.8%	9591715	1.65	1.65	0.0%	9591727	1.00	1.01	1.0%				
Mn	9591704	619	608	1.8%	9591715	936	977	4.3%	9591727	< 10	< 10	0.0%				
Mo	9591704	4	5	22.2%	9591715	2	2	0.0%	9591727	< 2	< 2	0.0%				





CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

Nb	9591704	5	5	0.0%	9591715	1	< 1		9591727	< 1	< 1	0.0%				
Nd	9591704	14.7	14.0	4.9%	9591715	5.5	5.2	5.6%	9591727	0.8	0.8	0.0%				
Ni	9591704	37	36	2.7%	9591715	31	32	3.2%	9591727	< 5	< 5	0.0%				
P	9591704	0.04	0.04	0.0%	9591715	0.03	0.03	0.0%	9591727	< 0.01	< 0.01	0.0%				
Pb	9591704	8	8	0.0%	9591715	13	13	0.0%	9591727	< 5	< 5	0.0%				
Pr	9591704	3.78	3.62	4.3%	9591715	1.30	1.22	6.3%	9591727	0.18	0.18	0.0%				
Rb	9591704	54.6	54.8	0.4%	9591715	12.5	12.4	0.8%	9591727	0.4	0.4	0.0%				
S	9591704	0.64	0.61	4.8%	9591715	0.12	0.12	0.0%	9591727	0.11	0.11	0.0%				
Sb	9591704	0.87	0.80	8.4%	9591715	0.5	0.5	0.0%	9591727	< 0.1	< 0.1	0.0%				
Sc	9591704	11	11	0.0%	9591715	7	7	0.0%	9591727	< 5	< 5	0.0%				
Si	9591704	30.3	30.4	0.3%	9591715	28.0	29.8	6.2%	9591727	4.76	4.70	1.3%				
Sm	9591704	2.78	2.52	9.8%	9591715	1.1	1.1	0.0%	9591727	0.1	0.1	0.0%				
Sn	9591704	2	< 1		9591715	1	< 1		9591727	< 1	1					
Sr	9591704	262	262	0.0%	9591715	69.1	71.7	3.7%	9591727	58.6	60.2	2.7%				
Ta	9591704	< 0.5	< 0.5	0.0%	9591715	< 0.5	< 0.5	0.0%	9591727	< 0.5	< 0.5	0.0%				
Tb	9591704	0.36	0.34	5.7%	9591715	0.14	0.14	0.0%	9591727	< 0.05	< 0.05	0.0%				
Th	9591704	4.63	4.53	2.2%	9591715	0.4	0.4	0.0%	9591727	0.1	< 0.1					
Ti	9591704	0.217	0.212	2.3%	9591715	0.18	0.18	0.0%	9591727	< 0.01	< 0.01	0.0%				
Tl	9591704	< 0.5	< 0.5	0.0%	9591715	< 0.5	< 0.5	0.0%	9591727	< 0.5	< 0.5	0.0%				
Tm	9591704	0.179	0.185	3.3%	9591715	0.07	0.07	0.0%	9591727	< 0.05	< 0.05	0.0%				
U	9591704	1.50	1.48	1.3%	9591715	0.18	0.17	5.7%	9591727	0.11	0.15					
V	9591704	70	70	0.0%	9591715	49	50	2.0%	9591727	< 5	< 5	0.0%				
W	9591704	1	1	0.0%	9591715	< 1	< 1	0.0%	9591727	< 1	< 1	0.0%				
Y	9591704	11.3	10.9	3.6%	9591715	4.92	4.83	1.8%	9591727	2.1	2.1	0.0%				
Yb	9591704	1.3	1.3	0.0%	9591715	0.5	0.5	0.0%	9591727	0.1	0.1	0.0%				
Zn	9591704	40	37	7.8%	9591715	31	31	0.0%	9591727	< 5	< 5	0.0%				
Zr	9591704	140	146	4.2%	9591715	86.8	82.9	4.6%	9591727	1.90	1.85	2.7%				



CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)												
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Al	10.95	10.22	93%	90% - 110%	8.47	8.11	96%	90% - 110%									
As					26	25	97%	90% - 110%									
Ba	340	323	95%	90% - 110%	540	514	95%	90% - 110%									
Be	2.6	3.3	127%	90% - 110%	4.0	4.1	104%	90% - 110%									
Ca	5.72	5.4	94%	90% - 110%	0.907	0.906	100%	90% - 110%									
Ce	122	123	101%	90% - 110%	98	106	108%	90% - 110%									
Co	2.8	2.5	90%	90% - 110%	15	15	100%	90% - 110%									
Cs	1.5	1.6	104%	90% - 110%													
Cu	7	8	112%	90% - 110%	150	150	100%	90% - 110%									
Dy	18.2	18.5	102%	90% - 110%													
Er	14.2	14.8	105%	90% - 110%	3.7	4.1	110%	90% - 110%									
Eu	2.0	1.8	90%	90% - 110%	1.0	1.2	122%	90% - 110%									
Fe	4.34	4.06	94%	90% - 110%	3.77	3.7	98%	90% - 110%									
Ga	35	36	103%	90% - 110%													
Gd	14	15	105%	90% - 110%													
Hf	10.6	11	103%	90% - 110%	11	10	90%	90% - 110%									
Ho	4.3	4.4	103%	90% - 110%													
K	1.37	1.34	98%	90% - 110%	2.55	2.44	96%	90% - 110%									
La	58	57	98%	90% - 110%	44	46	105%	90% - 110%									
Li	37	39	106%	90% - 110%	47	48	103%	90% - 110%									
Lu	2.1	2.1	98%	90% - 110%	0.6	0.5	90%	90% - 110%									
Mg	0.325	0.304	94%	90% - 110%	1.1	1.1	97%	90% - 110%									
Mn	836	774	93%	90% - 110%	780	745	96%	90% - 110%									
Mo					14	14	101%	90% - 110%									
Nb	13	13	100%	90% - 110%	20	19	97%	90% - 110%									
Nd	57	57	100%	90% - 110%													
Ni	9	9	95%	90% - 110%	32	33	103%	90% - 110%									
Pb	10	10	96%	90% - 110%	31	31	100%	90% - 110%									
Pr	15.0	14.6	98%	90% - 110%													
Rb	55	53	97%	90% - 110%	144	149	104%	90% - 110%									
Sb					0.8	0.7	89%	90% - 110%									



CLIENT NAME: FIRST COBALT CORP

ATTENTION TO: FRANK SANTAGUIDA JASON RICKARD

Sc					12	12	100%	90% - 110%								
Si	23.3	22.1	95%	90% - 110%	28.4	28.1	99%	90% - 110%								
Sm	12.7	12.5	99%	90% - 110%	7.4	7.6	103%	90% - 110%								
Sn	7.1	7.9	111%	90% - 110%												
Sr	1191	1138	96%	90% - 110%	144	140	97%	90% - 110%								
Ta	0.9	1	110%	90% - 110%	1.9	1.7	91%	90% - 110%								
Tb	2.6	2.7	105%	90% - 110%	1.2	1.1	93%	90% - 110%								
Th	1.4	1.2	88%	90% - 110%	18.4	17.6	96%	90% - 110%								
Ti	0.172	0.158	92%	90% - 110%	0.527	0.498	95%	90% - 110%								
Tm	2.3	2.3	100%	90% - 110%												
U	0.8	0.8	104%	90% - 110%	5.7	5	87%	90% - 110%								
V	8	8	96%	90% - 110%	77	77	101%	90% - 110%								
W					5	5	93%	90% - 110%								
Y	119	119	100%	90% - 110%	40	40	99%	90% - 110%								
Yb	14.8	15.4	104%	90% - 110%												
Zn	93	93	100%	90% - 110%	130	124	95%	90% - 110%								
Zr	517	570	110%	90% - 110%	390	399	102%	90% - 110%								



## Method Summary

CLIENT NAME: FIRST COBALT CORP  
 PROJECT: FLD-033  
 SAMPLING SITE:

AGAT WORK ORDER: 18B392096  
 ATTENTION TO: FRANK SANTAGUIDA JASON  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag			ICP/MS
Al	MIN-200-12001		ICP/OES
As	MIN-200-12001		ICP/MS
B	MIN-200-12001		ICP/OES
Ba	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
Bi	MIN-200-12001		ICP-MS
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cs	MIN-200-12001		ICP-MS
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Fe	MIN-200-12001		ICP/OES
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
K	MIN-200-12001		ICP/OES
La	MIN-200-12001		ICP-MS
Li	MIN-200-12001		ICP/OES
Lu	MIN-200-12001		ICP-MS
Mg	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Nb	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
P			ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Sr	MIN-200-12001		ICP-OES
Ta	MIN-200-12001		ICP-MS
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS



## Method Summary

CLIENT NAME: FIRST COBALT CORP

AGAT WORK ORDER: 18B392096

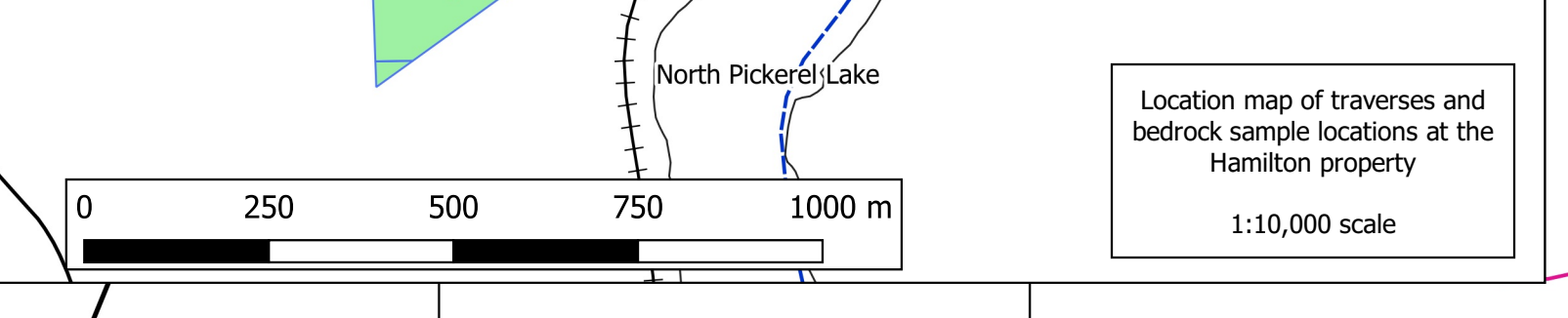
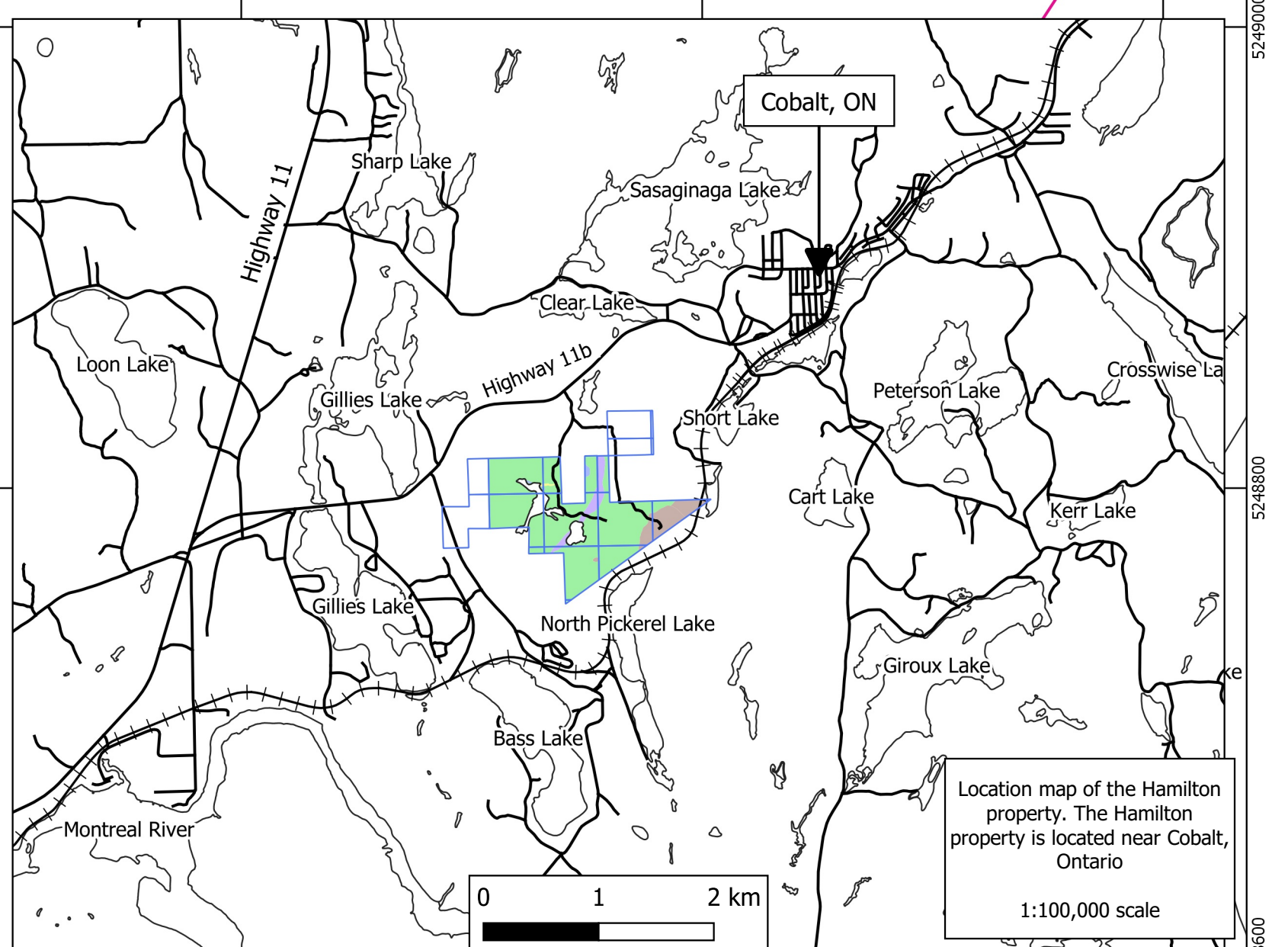
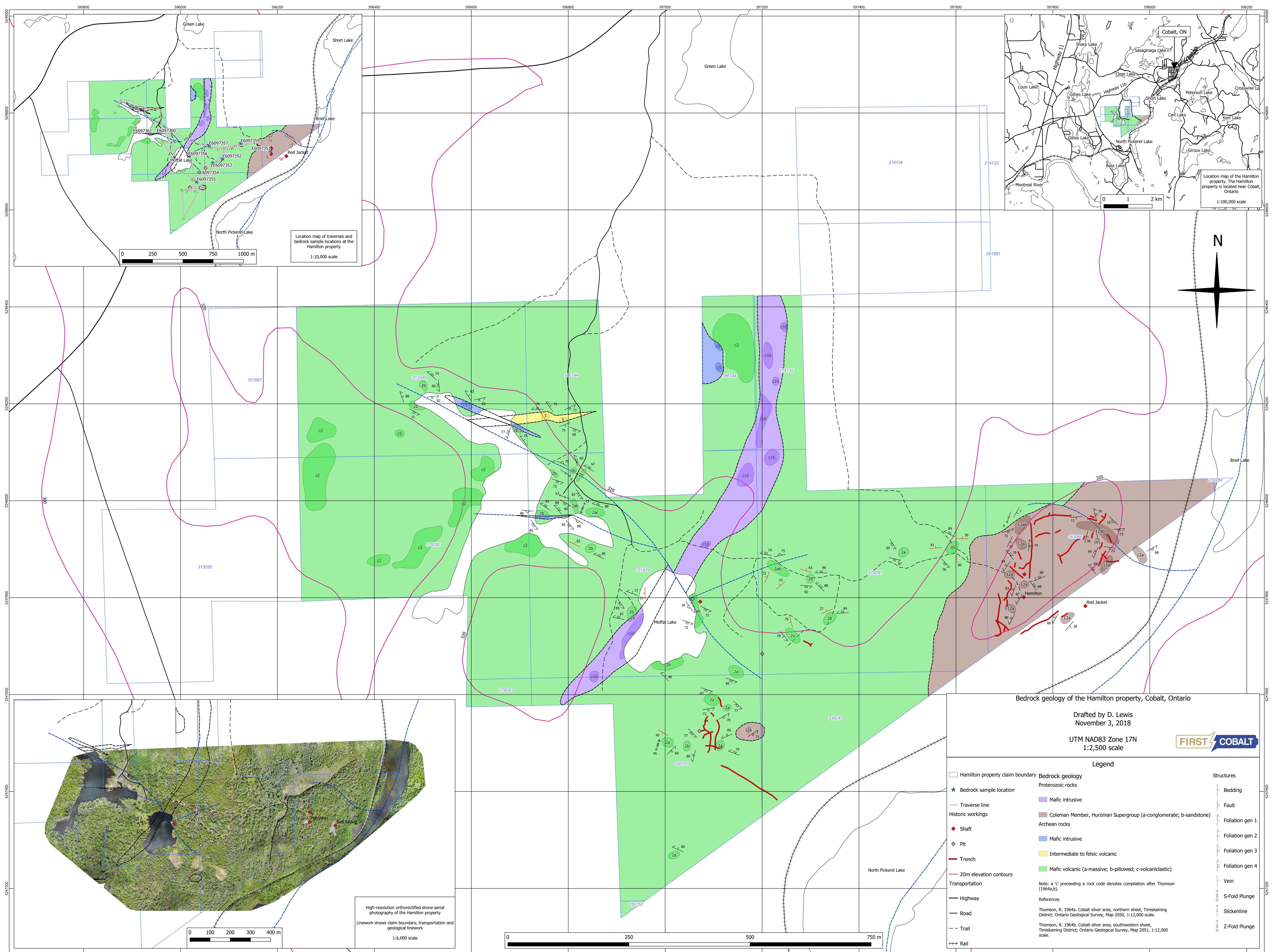
PROJECT: FLD-033

ATTENTION TO: FRANK SANTAGUIDA JASON

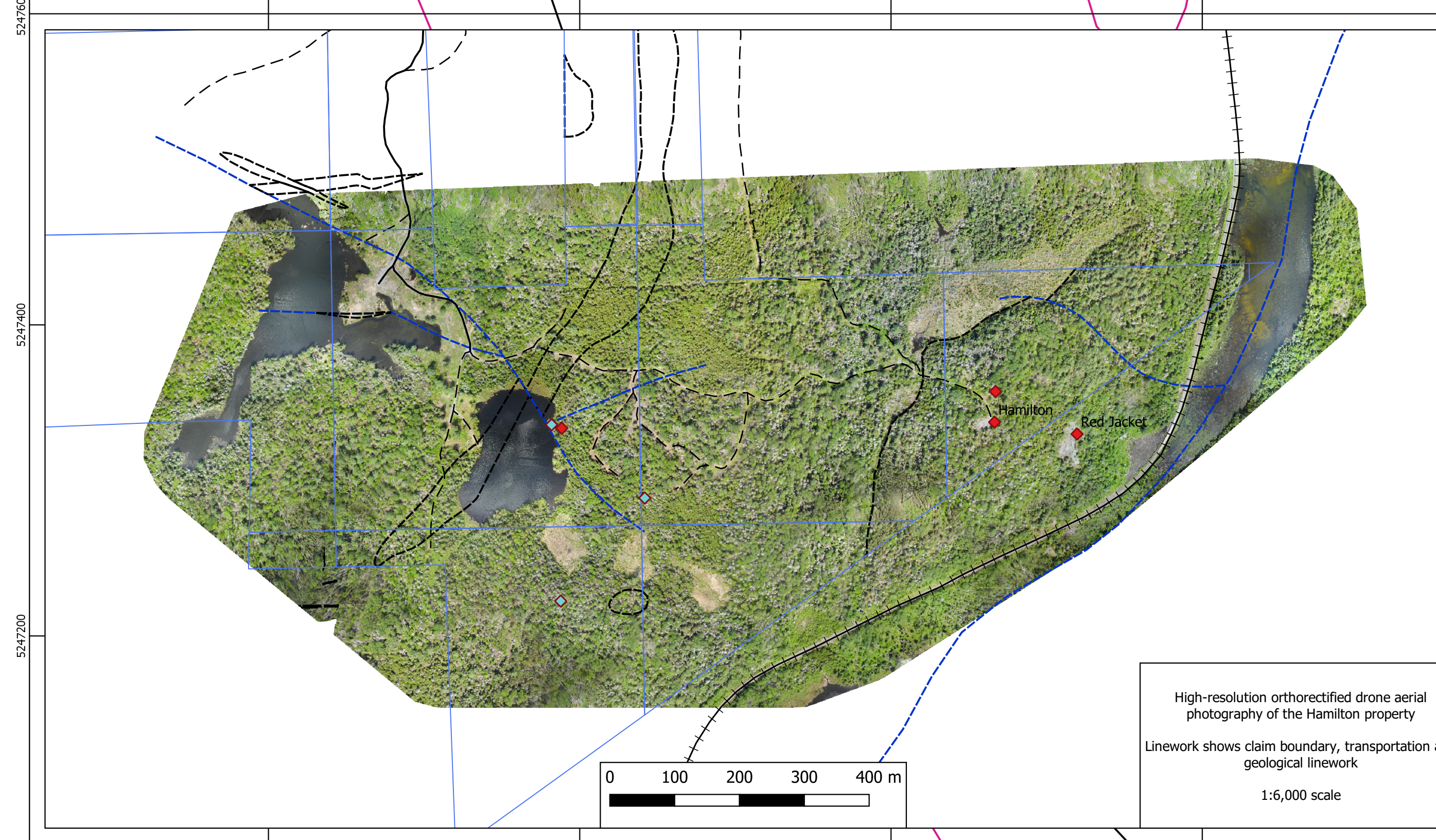
SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



Location map of traverses and bedrock sample locations at the Hamilton property  
1:10,000 scale



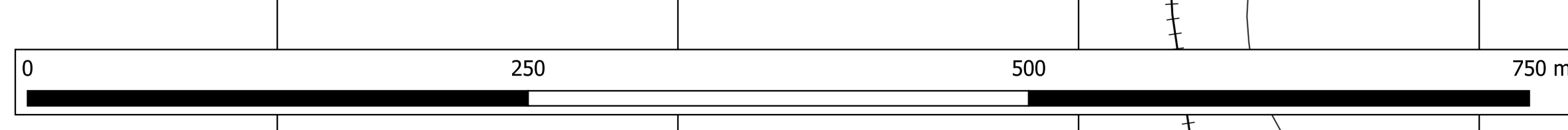
High-resolution orthorectified drone aerial photography of the Hamilton property  
Line work shows claim boundary, transportation and geological line work  
1:6,000 scale

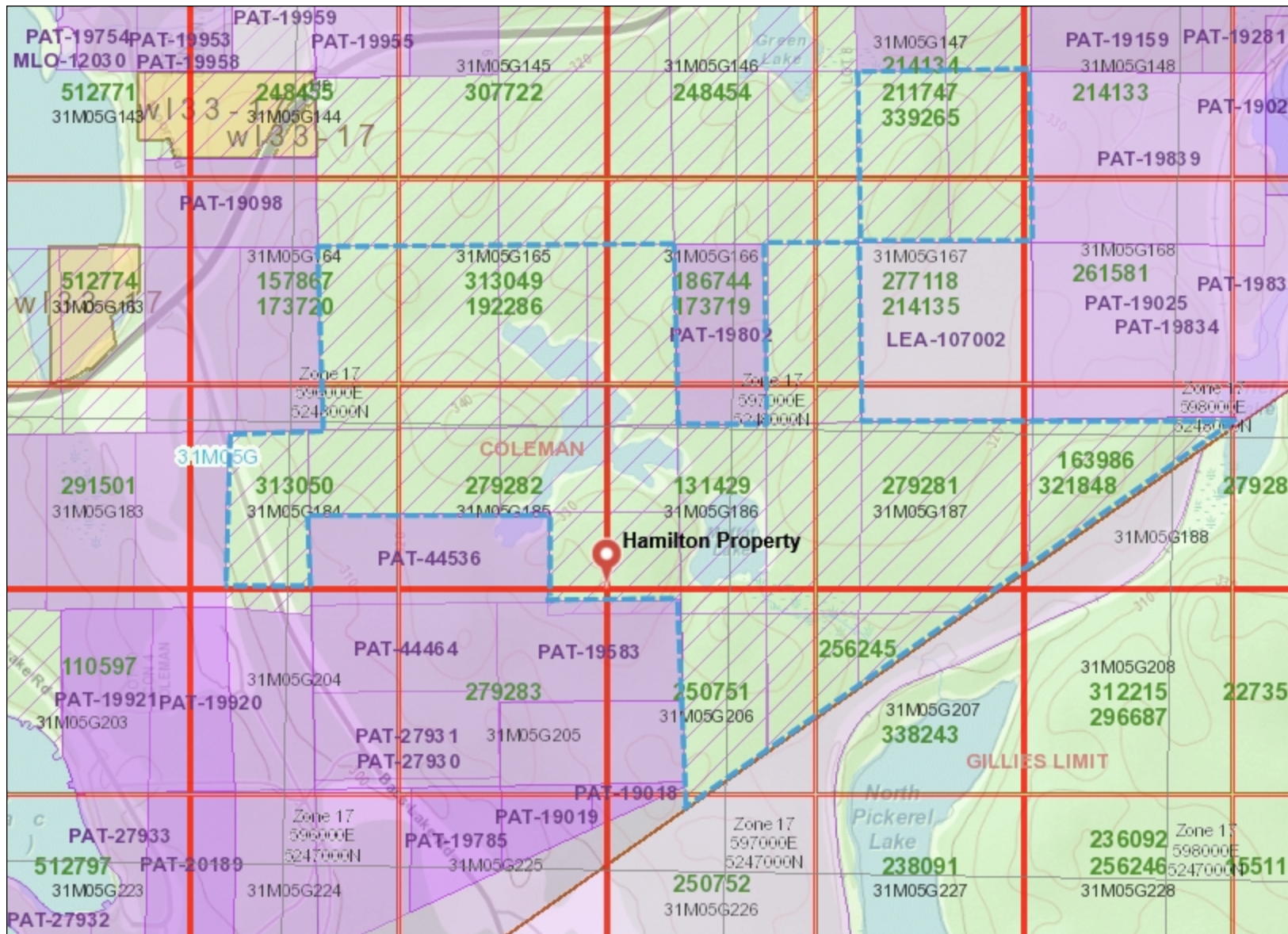
**Bedrock geology of the Hamilton property, Cobalt, Ontario**  
 Drafted by D. Lewis  
 November 3, 2018  
 UTM NAD83 Zone 17N  
 1:2,500 scale



Legend	
Hamilton property claim boundary	<b>Bedrock geology</b>
Bedrock sample location	Proterozoic rocks
Traverse line	Mafic intrusive
Historic workings	Coleman Member, Huronian Supergroup (a-conglomerate; b-sandstone)
Shaft	Archean rocks
Pit	Mafic intrusive
Trench	Intermediate to felsic volcanic
20m elevation contours	Mafic volcanic (a-massive; b-pillowed; c-volcaniclastic)
Highway	
Road	
Rail	
Rail	
	<b>Structures</b>
	Bedding
	Fault
	Foliation gen 1
	Foliation gen 2
	Foliation gen 3
	Foliation gen 4
	Vein
	S-Fold Plunge
	Slickenside
	Z-Fold Plunge

Note: a 'c' preceding a rock code denotes compilation after Thomson (1964a,b).  
 References  
 Thomson, R. 1964a. Cobalt silver area, northern sheet, Timiskaming District; Ontario Geological Survey, Map 2050, 1:12,000 scale.  
 Thomson, R. 1964b. Cobalt silver area, southwestern sheet, Timiskaming District; Ontario Geological Survey, Map 2051, 1:12,000 scale.





### Legend

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



Projection: Web Mercator



The Ontario Ministry of Northern Development and Mines shall not be liable in any way for the use of, or reliance upon, this map or any information on this map. This map should not be used for: navigation, a plan of survey, routes, nor locations.

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WORKTYPE	PERSONNEL	ROLE	DATES OF FIELD WORK	Units		MNDM COST CATEGORIES							
				Days/Man-days	Rate/unit	\$Supervision & Labour	\$Contractors & Consultants	\$Supplies&Rental Equipment	\$Food and Lodging	\$Transport to work site (Ontario)	\$Assaying	\$Shipping	
Supervision	Jason Rickard	Supervising Geologist	1 day	1	\$ 800.00	\$ 800.00							
Data/GIS	Dave Lewis	Data Geologist	Oct 20,21,23,28,29;Nov2-4	7	\$ 700.00	\$ 4,900.00							
Structural Mapping	Dave Lewis	Structural mapper	Nov 3,2017, June 15,16,17,20, 2018	5	\$ 700.00	\$ 3,500.00							
Structural Mapping	Remi Germain	Assistant	1 day 2017 (Nov 3 2017)	1	\$ 450.00		\$450.00						
Structural Mapping	Russell Johnson	Assistant	5 days 2018 (June 15,16,17,20)	5	\$ 280.00	\$ 1,400.00							
Truck Rental 5 days	\$120/day in incl. truck rental, fuel, insurance, repairs			5	\$ 120.00					\$ 600.00			
Accom/Meals	\$100/day incl. house rental, heat, hydro, groceries, restaurant meals			18	\$ 100.00				\$ 1,800.00				
11 samples at \$28												\$ 308.00	
UAV Survey							\$ 10,912.86	\$ 2,271.28					
					\$ 26,942.14	\$ 10,600.00	\$ 11,362.86	\$ 2,271.28	\$ 1,800.00	\$ 600.00	\$ 308.00		
		Supervision and Labour	Supplies and Rentals										
	May 2018 Invoice	\$ 15,229.25	\$ 4,623.39										
	June 2018 Invoice	\$ 16,831.25	\$ 3,788.76										
	July 2018 Invoice	\$ 8,357.50											
		\$ 40,418.00	\$ 8,412.15										
	<b>Total area of survey (ha)</b>		<b>433</b>		% of Total Area								
	Area of Hamilton property survey (ha)		119		27%								
	Area of Silverfields property survey (ha)		29		7%								
	Area of Kerr Lake property survey (ha)		252		58%								
	Area of Glen property survey (ha)		33		8%								
	Hamilton UAV Supervision and Labour		\$ 10,912.86										
	Hamilton UAV Supplies and Rentals		\$ 2,271.28										

UAV Cost Breakdown