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2.58251

GEOLOGICAL MAPPING AND SAMPLING PROGRAM

Sheppard Property

Aylmer Township

District of Sudbury

Ontario

L.D.S. Winter
BASc., MSc (App)
September 28, 2017

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1. Introduction

The writer was requested by Mr. Tom Sheppard to carry out a Geological Mapping and Sampling Program in the area of claim 4203306, part of his Aylmer Township Property, located approximately 20 kms north of Capreol, Ontario. (Figure 1). The work was carried out over a three day period between July 11th and July 18th, 2017. The following report describes the property, the geology, previous exploration in the area and the work done and the results obtained from the current work.

Metric units and Canadian dollars are used throughout the report.

2. Property Description and Location

The Property is located in central Aylmer Township at 46 degrees – 2.37' N latitude, 80 degrees – 2.4' W longitude (UTM co-ordinates, Zone 17, NAD 83; 517500mE, 5190 000m N) approximately 63 kms north of Capreol, by road, within the Sudbury Mining Division and the District of Sudbury, Ontario.

The property is comprised of 5 contiguous, active mining claims containing a total of 42 units and covering approximately 672 ha as listed in Table 1 and as shown in Figure 2. The claims are held in the name of Tom Sheppard (Client number 193779) 100%. The current work was carried out on the southern half of claim 4203306.

Table 1 – Sheppard Property Claims

Township	Number	Due Date	Units	Area (ha)
		*		
Aylmer	4203306	2018, May 24	6	96
Aylmer	4216908	2017, Oct. 16	12	192
Aylmer	4216909	2017, Oct. 16	6	96
Aylmer	4216910	2017, Oct. 16	12	192
Aylmer	4219155	2017, Oct. 2	6	96
Total:	**5**		**42**	**672**

*Note: All Claims currently on Extension

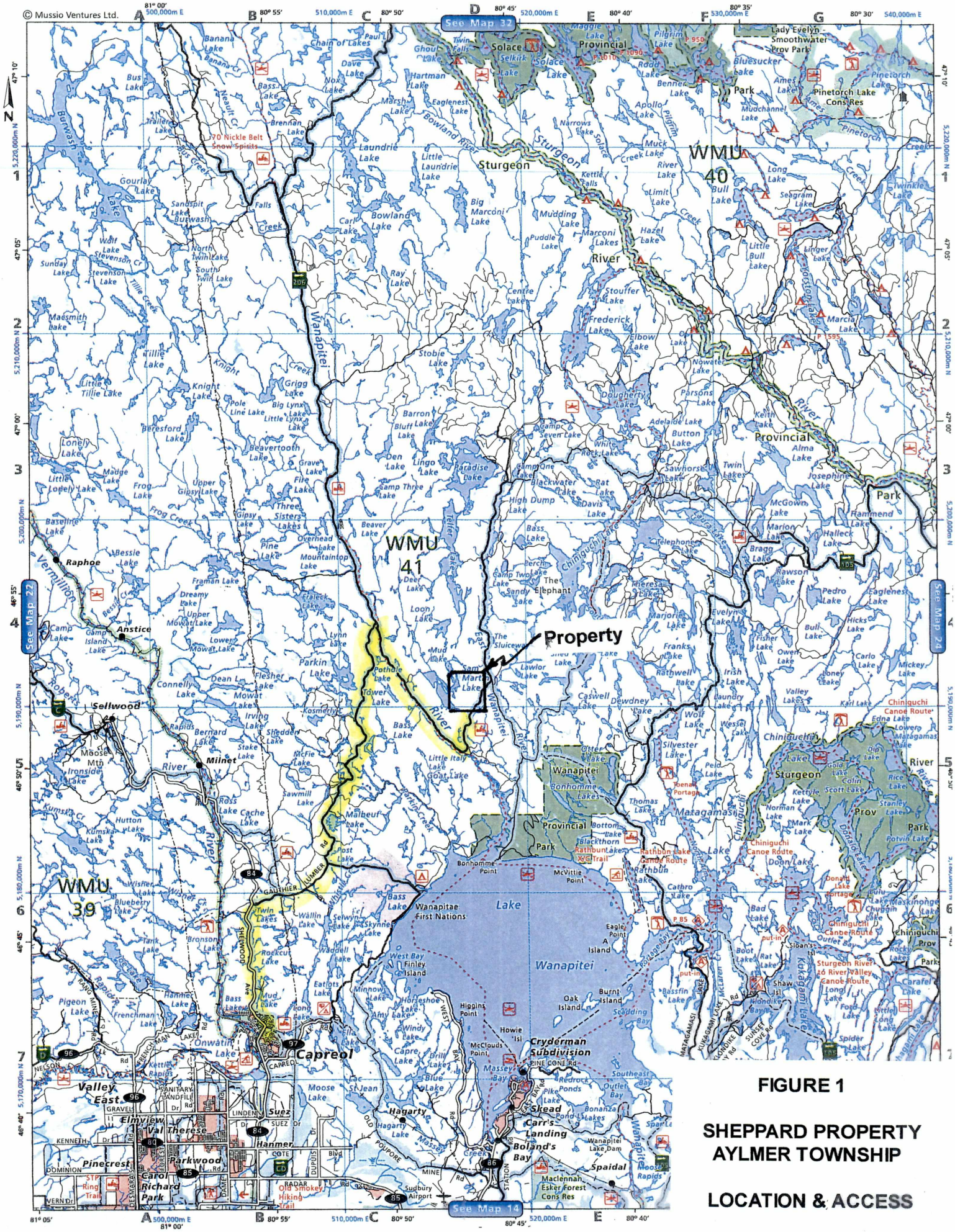


FIGURE 1

SHEPPARD PROPERTY
AYLMER TOWNSHIP

LOCATION & ACCESS

Scale: 1:250 000 Sept. 2017

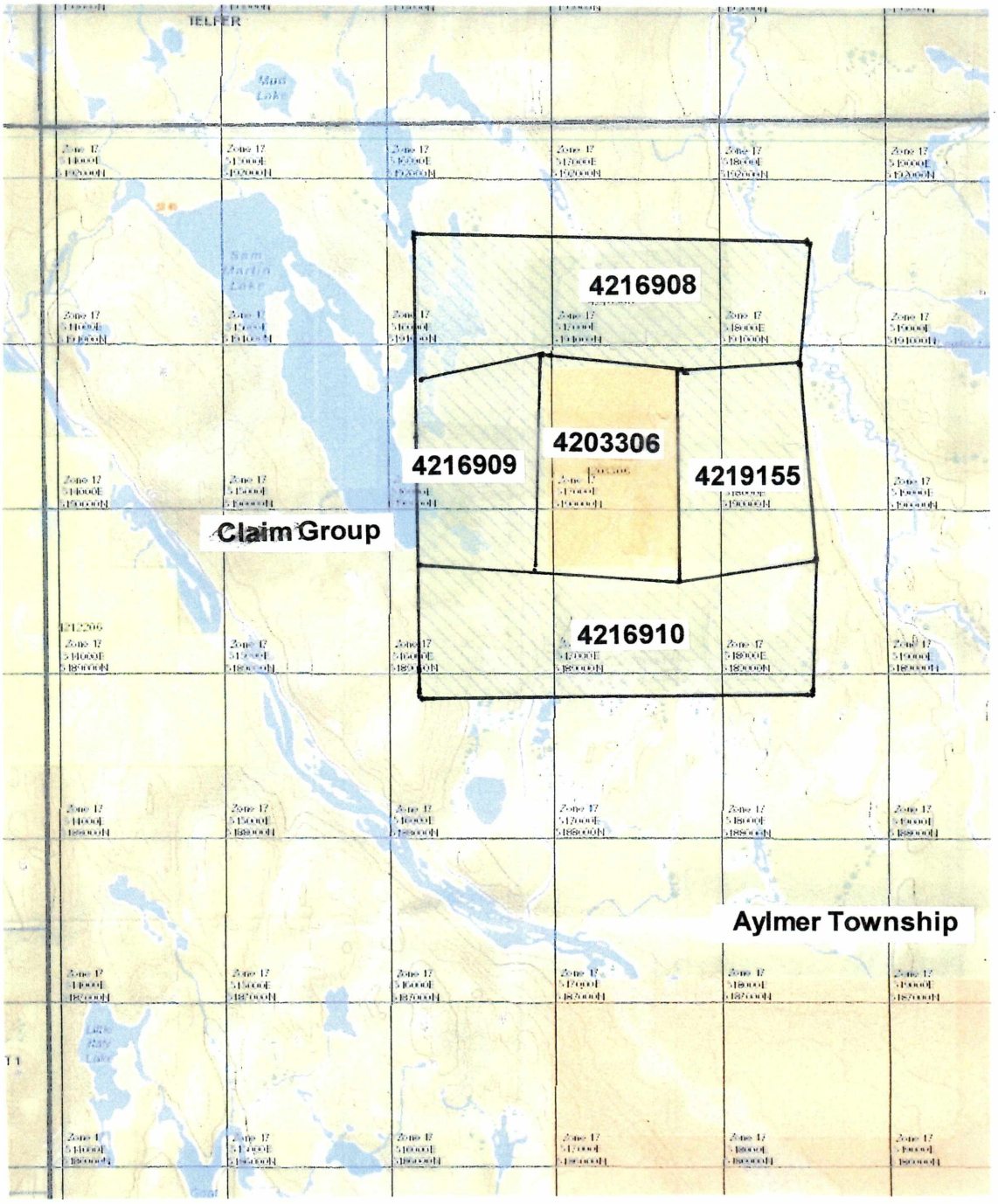


FIGURE 2

SHEPPARD PROPERTY
AYLMER TOWNSHIP

CLAIM MAP

NAD 83 Zone 17

Scale: 1:40 000 Sept. 2017

3. Accessibility, Climinate, Local Resources Infrastructure and Physiography

Access to the Property from Sudbury is north to Hanmer and then Capreol. From Capreol, highway 545 leads north approximately 10 kms to the Portelance Road and then in turn to the Poupore Road and the property as shown in Figure 1. From Hanmer the distance to the property by road is 63 kms.

The Sudbury area has a cold continental climate with an average annual precipitation in the order of 85 centimeters per year and with the annual temperature being in the range from +30 degrees C to -40 degrees C. Snow accumulations are generally present for a 5 month period between November and March with the occasional storm in early April. In general, the climate conditions permit exploration work to be carried out at all times during the year. In some cases, the winter season is more preferable for carrying out geophysical and drilling work in that it provides access to swampy areas.

The city of Sudbury approximately 80 kilometers south of the project by road, is a well established mining area and can provide all of the services and skilled personnel required for any type of exploration work and mining facilities that may be developed on the property.

The topographic relief of the property is in the order of 30 to 40 meters with the general elevation of the property being approximately 300 meters above mean sea level. For the most part, the property is forested with small areas being muskeg. Approximately 90% of the area is covered by glacial deposits and approximately 10% is considered to be bedrock exposures which generally occur in a north-south trend reflecting the general trend of the underlying structures.

The Wanapitei River flows south-southeast along the eastern edge of the property and Sam Martin Lake lies along the northwestern side.

4. History

In 1950 H. Barry discovered copper mineralization in the matrix of a breccia and across a width of 2 m. A chip sample taken in 1949 had assayed 2.07% Cu. Three drill holes for a combined length of 182.7 m were drilled in 1952. A 4.1 m intersection adjacent to the showing was estimated to run 0.5% Cu.

Kennco Exploration, in 1958, carried out airborne EM and Magnetic surveys, however, no bedrock conductors were identified. Three pits were excavated and 2 packsack diamond drill holes were put down. Scattered Pyrite and traces of Chalcopyrite were present in the first hole but no sulphides were identified in the second hole.

R.C. Dennie drilled a 61 m hole in 1964 with pyrite being reported in the core.

In 1965 L.L. Billoki carried out an IP survey following which, two drill holes for a total of 277 m were completed. Up to 10% pyrite and 2% chalcopyrite across 3 meters was intersected.

Kerr Addison Mines Limited completed ground VLF-EM and magnetometer surveys in 1979.

In 1991 Falconbridge flew a GEOTEM fixed – wing airborne EM survey that covered part of the current property. No apparent anomalies were identified.

Roger Poulin of Sudbury investigated the property area for possible decorative stone in 2002. No assays were reported.

F. Delabbio in 2008, 2009, 2010, and 2011 carried out mapping, trenching, sampling and prospecting in claim 4203306 and adjacent areas with copper values of 1.8% Cu and 0.25% Cu being reported. VLF and vertical loop ground EM surveys indicated the presence of possible conductors.

5. Regional Geology

The Sheppard property area lies within the Precambrian Shield of Northern Ontario, within the Southern Geological Province between the Superior Geological Province to the north and the Grenville Geological Province to the south.

In summary, three major lithological components are present in the Southern Province:

- An Archean basement made up of metavolcanics and metasedimentary rocks, granitoid intrusives and mafic intrusive rocks,
- Huronian metasedimentary rocks containing minor intercalated mafic volcanic rocks, overlie the Archean basement and,
- Post Huronian intrusive rocks including Nipissing diabase sills and post Nipissing diabase dykes and sills, small felsic intrusive bodies and lamprophyre dykes.

The major geological provinces and structures within the region are outlined in Table 2 and can be seen in Figure 3.

Table 2 – Table of Geological Formations – Sheppard Property Area

Period	Province or Complex	Dominant Lithology	Age - Ma
Mid-Proterozoic	Grenville	Viriable, highly metamorphosed	1200 - 1000
Mid-Proterozoic	Keweenawan	Mafic Volcanics	1225
Early Proterozoic	Sudbury Igneous Complex & Whitewater Sediments	Diorite	1850
Early Proterozoic	Nipissing Diabase	Gabbro and Diabase Intrusions	2115
Early Proterozoic	Huronian Supergroup	Clastic Sediments	2450 - 2115
Archean	Superior	Granite and Metavolcanics	>2500

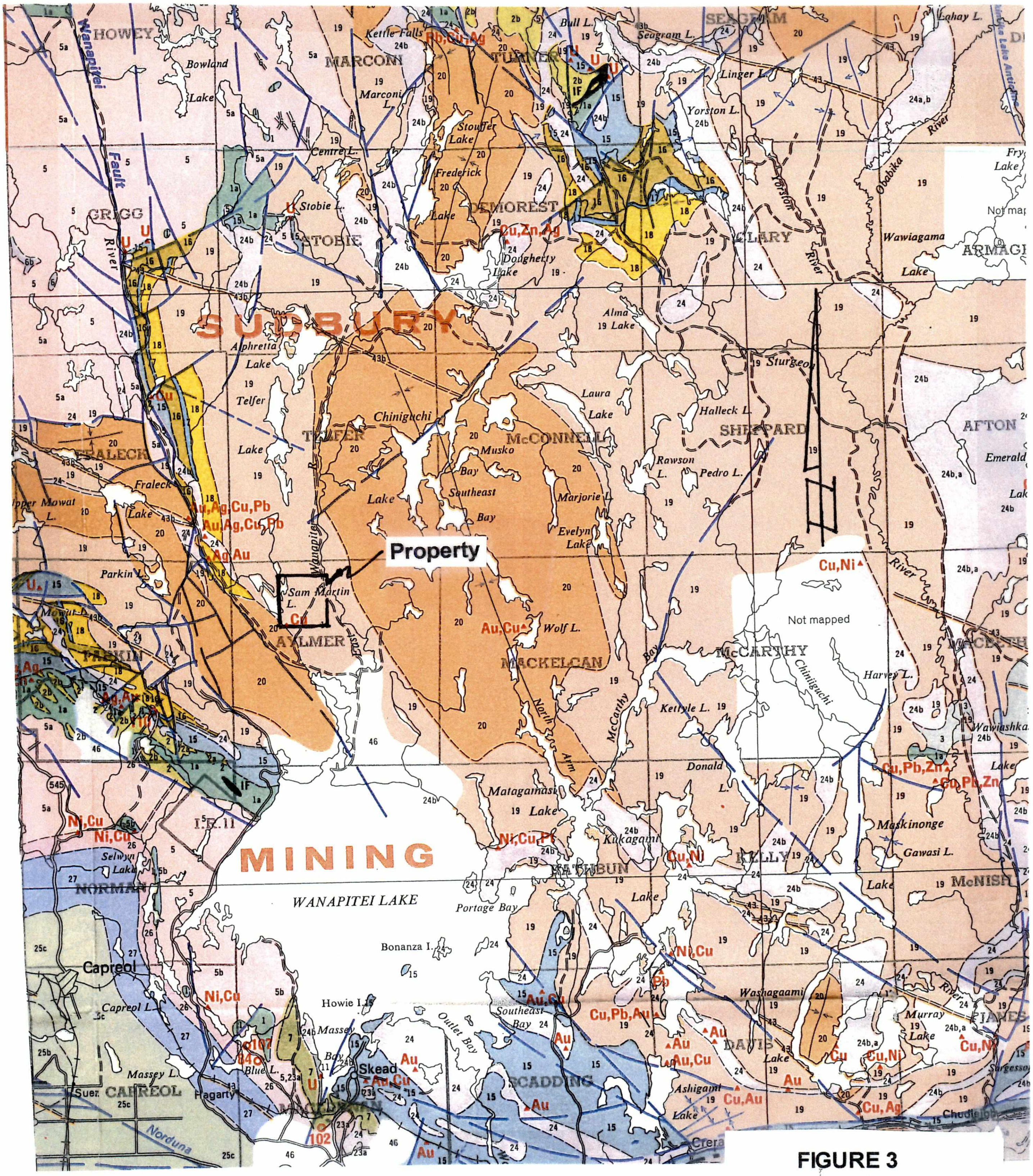


FIGURE 3

SHEPPARD PROPERTY
AYLMER TOWNSHIP

REGIONAL GEOLOGY

After OGS Map 2361

Scale: 1:250 000 Sept. 2017

LEGEND FOR FIGURE 3

HURONIAN SUPERGROUP[h]

COBALT GROUP

BAR RIVER FORMATION

22 — *22 Quartz sandstone, hematitic siltstone, and sandstone.*

GORDON LAKE FORMATION

21 — *21 Siltstone, argillite, sandstone.*

LORRAIN FORMATION

20 — *20 Quartz sandstone, micaceous and aluminous quartz sandstone, quartz-feldspar sandstone, and minor conglomerate, and siltstone.*

GOWGANDA FORMATION

19 — *19 Conglomerate, sandstone, siltstone, and argillite.*

QUIRKE LAKE GROUP

SERPENT FORMATION

18 — *18 Quartz-feldspar sandstone with minor siltstone, calcareous siltstone, and conglomerate.*

ESPANOLA FORMATION

17 — *17 Limestone, dolostone, siltstone, and sandstone.*

BRUCE FORMATION

16 — *16 Conglomerate with minor sandstone and siltstone.*

HOUGH LAKE GROUP

MISSISSAGI FORMATION

15 — *15 Quartz-feldspar sandstone with minor siltstone, argillite, and conglomerate.*

PECORS FORMATION

14 — *14 Siltstone, argillite, and greywacke with minor quartz-feldspar sandstone.*

RAMSAY LAKE FORMATION

13 — *13 Conglomerate with minor sandstone and siltstone.*

ELLIOT LAKE GROUP

McKIM FORMATION

12 — *12 Siltstone, greywacke, and argillite with minor quartz-feldspar sandstone.*

MATINENDA FORMATION

11 — *11 Quartz-feldspar sandstone with minor conglomerate and siltstone.*

VOLCANIC ROCKS[i]

SALMAY LAKE FORMATION

10 — *10 Mafic metavolcanics with minor intermediate and felsic metavolcanics, mafic intrusions and intercalated metasediments.*

COPPER CLIFF FORMATION

9 — *9 Felsic and intermediate metavolcanics with minor felsic intrusions and intercalated metasediments.*

STOBIE FORMATION

8 — *8 Mafic metavolcanics and intrusions with abundant intercalated metasediments including greywacke, siltstone, pyritic metasediments and quartz-feldspar sandstone.*

ELSIE MOUNTAIN FORMATION

7 — *7 Mafic metavolcanics and intrusions with minor intercalated metasediments and felsic pyroclastics and felsic intrusions.*

The Huronian metasedimentary rocks lie unconformably above the Archean basement. They are part of the Huronian Supergroup, portions of which extend across the region from Sault Ste. Marie in the west to the Cobalt area near the Quebec border in the east. The Huronian sediments are interpreted to have been deposited during a period of marine transgression from south to north, commencing with sandstones, conglomerates and argillites with local intercalated mafic volcanics followed by more mature clastic sediments and marine evaporates. The sediments are thought to have been deposited from the northwest towards the southeast, with the clastic material derived from gradual uplift of the foreland to the north. The unconformity with the basement rocks is sharply defined in some places and at others is represented by several meters of regolith.

The Huronian Supergroup has been divided into four groups, each containing several formations (Table 3).

Table 3 – Stratigraphy of the Huronian Supergroup – Sault Ste. Marie – Sudbury – Cobalt Region – Sheppard Property Area

Formation	Description
COBALT GROUP	
BAR RIVER FORMATION	Orthoquartzite, siltstone
GORDON RIVER FORMATION	Siltstone
LORRAIN FORMATION	Arkose, orthoquartzite
GOWGANDA FORMATION	Polymictic Conglomerate, quartzite, siltstone, argillite
QUIRKE LAKE GROUP	
SERPENT FORMATION	Orthoquartzite
ESPANOLA FORMATION	Greywacke, limestone
BRUCE FORMATION	Limestone, siltstone
HOUGH LAKE GROUP	
MISSISSAGI FORMATION	Orthoquartzite
PECORS FORMATION	Greywacke, argillite, quartzite
RAMSAY LAKE FORMATION	Polymictic conglomerate
ELLIOT LAKE GROUP	
MCKIM FORMATION	Greywacke, argillite, quartzite Polymictic conglomerate
MATINENDA FORMATION	Arkosic quartzite
LIVINGSTONE CREEK FORMATION	Fieldspathic quartzite and conglomerates

The primary intrusive event affecting the region was the intrusion of the Nipissing diabase sills and dykes which are dated at 2120 Ma. The sills and dykes were folded during the Penokean Orogency and metamorphosed to greenschist facies. The Nipissing diabase is primarily found as intrusions in the Huronian sediments, however, they also occur in the underlying Archean rocks.

The major structural event that deformed the Huronian sediments was the Penokean Orogeny, which affected the region between about 1850 Ma and 1750 Ma. The deformation caused by the Penokean Orogeny resulted in folding and thrust faulting of the Huronian sediments. The Murray fault system and Onaping fault systems are composed predominantly of strike-slip faults that were formed sometime after the Grenville Orogeny (post 1000 Ma).

6. Property Geology and Mineralization

The Gowganda Formation is the basal formation of the Cobalt Group and underlies the Sheppard Property. This formation is compsed of conglomerates, sandstones, quartzites, siltstones and argillites. Structurally, the property lies on the western limb of a syncline trending north - north west. A small Nipissing gabbro intrusive has been mapped in the central part of the property.

Alteration appears to be dominantly albitic (pink) with chloritization and carbonatization. The greywackes appear to be very fine grained, chloritized and albitized.

Mineralization in the central part of the property area consist of a number of showings mainly composed of coarse breccias with quartz and or carbonate as the matrix plus variable amounts of pyrites, cholcoprytes and in some cases bornite. A dark green-black chlorite accompanies some of the quartz veining and mineralization. Much of the pyrite occurs as coarse, disseminated cubes, some of which show up as cubic shaped cavities filled with limonite. In some of the showings, gold values are reported, associated with the copper mineralization.

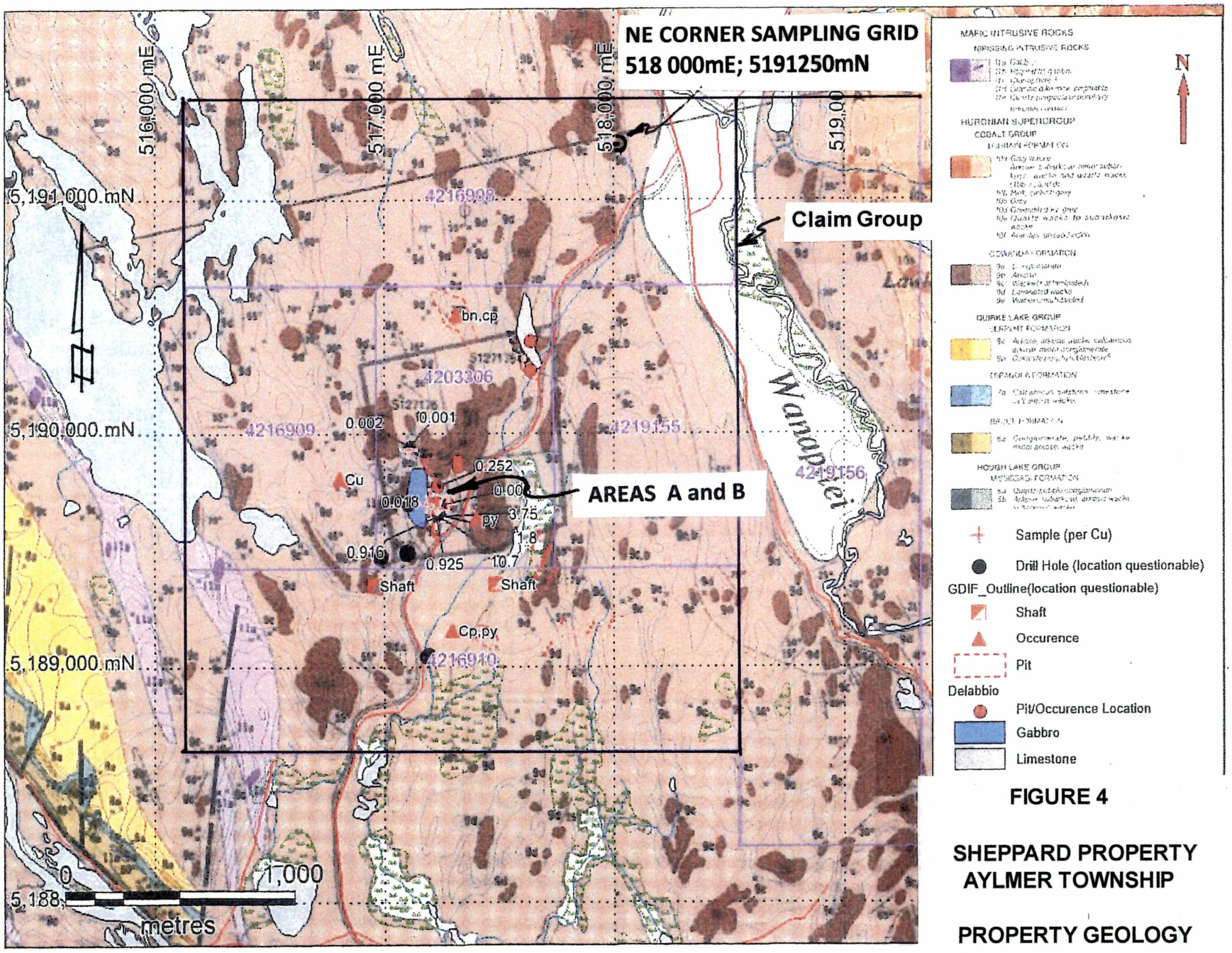


FIGURE 4

SHEPPARD PROPERTY
AYLMER TOWNSHIP

PROPERTY GEOLOGY

After Smith 2014

Scale: 1: 25000 Sept 2017

Some of the breccia bodies appear to be more or less "stratiform", however, others are crosscutting. One such body is approximately 50m long, north-south, and cross-cuts the greywacke bedding trending 330 degrees / 30 degrees NE

On a property in Scadding township to the southeast, similar mineralization shows a crude zoning of hydrothermal alteration in breccia near gold mineralization. The pattern of alteration from proximal to distal includes:

- Green chloritic breccia with quartz + ankerite + sulphide stringers and/or matrix material.
- Pink albitic + hematitic breccia with coarse dolomite + quartz stringers and/or matrix material.

The property is for the most part covered with a coarse glacial till with the depth of overburden ranging from a few centimeters over outcrop areas to several meters within the large swampy area. In the area outcrop ridges trending north-south are the dominant topographic feature. Small north-south valleys lie between the ridges and contain swampy type vegetation and in some cases running water.

7. Background

There is a broad regional structural zone in the order of 14 to 15 kms wide that extends from the Grenville Front, northwest from Dana, Janes, Davis and Scadding townships and that then turns to trend more north-north westly through the eastern part of Wanapitei Lake and the area to the east of the lake. From here the zone continues through the eastern part of Fraleck and Aylmer townships. The western limit of the structural zone is the upper Wanapitei Fault which follows the Wanapitei River. The Sheppard Property lies approximately 1 km east of this major fault in Aylmer township. (Figure 3 and after OGS Map 2361)

Gates (1991) in Open File Report 5771, Sudbury Mineral Occurrence Study, describes in the order of 30 mineral showings or occurrences that for the most part lie within the indicated structural zone and of these, in the order of 25 are charactered by soda metasomatism as expressed by albitization. The associated mineralization varies from quartz veins with pyrite and chalcopyrite to breccia bodies mineralized with quartz, pyrite and chalcopyrite. Also, arsenopyrite is not uncommon.

Iron carbonate alteration and silicifraction are usually present and all zones appear to be structurally controlled. The Sheppard property in Aylmer township is not described by Gates (1991), however, it falls within the indicated structural zone and shows the same features of soda metasomatism etc. as for the majority of the occurrences described in OFR 5771.

A paper given by Martinsson (2011), at the Iron Oxide Copper Gold (IOCG) Workshop in Antatagasta, Chile in 2011, provides a review of IOCG deposits in the northern part of the Fennoscandia Shield and of particular interest are the "Au-type IOCG Deposits" described as having the following typical features;

-Albite, sericite, carbonate, biotite, quartz and tourmaline alteration.

-Au, Co, Cu, As, Ni, Bi, Te, Mo, Zn, U metal association and one deposit, Suurikuusikko with 18.2 Mt @ 5.1 ppm Au is structurally controlled and mineralization occurs in brecciated and albite – carbonate altered schist and mafic volcanic rocks with disseminated sulphides. The gold is hosted in arsenopyrite (71%) and pyrite (22%). It is considered that the Fennoscandian IOCG – Type gold deposits, those described by Gates (1991) and the Sheppard mineralization are all of the same type, ie. Au-type, IOCG deposits.

8. Work Done

Over a 3 day period, the 11th, 13th and 18th of July 2017, an area measuring approximately 1000 m north-south by 1000 m east-west was geologically mapped and sampled so as to better define the geological and litho geochemical characteristics of this area which is approximately the southern half of claim 4203306. Of particular interest, because of their relevance to the Au-type IOCG model, were the breccias, structure, mineralization and types and extent of alteration. As well, the nature and attitude of the underlying greywackes of the Gowganda formation were recorded. A total of 27 sites were visited with 23 being mapped and 18 rock samples were collected and sent to ALS Minerals for gold and multielement analysis.

The results obtained are presented in Map 1, Figures 5 to 9 inclusive and in the following section.

The mapping and sampling were carried out by the writer assisted by Tom Sheppard who holds the claims.

9. Results

In Map 1, the 3 areas mapped and sampled are indicated. Site 1 is in the northeast corner of Map 1 at 518050 m E, 5191100 m N, Area A containing 4 sites is centered at 517650 m E, 5190650 m N and Area B is centered at 517300 m E, 5190100 m N and hosts the remaining 18 sites. For all sites, on Map 1, a summary of the mapped geology is presented as well as the number of the sample from that site. Figures 5 and 6 also show the geological features of Area A as well as the analytical results. Figures 7, 8 and 9 show the same information for Area B. Table 4 lists all the samples, their site location and the analytical results for the 18 samples for arsenic, gold and copper.

At Site 1, the underlying greywacke shows little alternation, contains 1% +/- disseminated pyrite and the arsenic, gold and copper values are quite low.

In Area A there are 4 sites with the greywacke trending southeast and dipping to the east. There are breccia zones, weak albite alteration, minor disseminated pyrite and some green malachite staining. Arsenic values are in the 2-3 ppm range, gold values are in the 0.001 to 0.010 ppm range and copper values are in the 4 to 45 ppm range.

Area B is an elongated zone trending approximately north-northwest and hosts the remaining mapping and sample sites (Map 1, Figures 7, 8 and 9). The greywackes generally trend southeast to south-southeast and dip moderately to the northeast and east. At sites 14 and 15 the bedding is highly contorted in association with the emplacement of a zone of breccia with a grey quartz matrix and containing disseminated euhedral pyrite (Sites 25, 26, 27 and 17).

Immediately adjacent to the west of Sites 25, 26 and 27, in the northwest corner of Area B, is a cliff along the eastern side of a very sharp, deep valley in the order of 25 m deep. This valley trends 350 degrees and is interpreted to represent a fault zone which would be one of a number of faults with the same trend in the general area (Figure 3). Most of the Sites in Area B lie to the east of this structure and fall within a zone, parallel to the fault, approximately 150 m wide and 400 m north-northwest and from Table 4 it can be seen that the better arsenic, gold and copper values are generally within the zone.

Table 4 – Samples, Locations and Values

Sample No.	Site	Analytical Vales in ppm			Area
		Arsenic	Gold	Copper	
W107101	1	2	0.002	40	-
W107102	2	3	0.010	4	A
W107103	2	<2	0.001	45	A
W107104	3	2	0.001	4	A
W107105	4	2	0.004	34	A
W107106	6	2	0.001	1	B
W107107	6	311	0.026	7	B
W107108	8	8	0.003	9	B
W107109	9	60	0.003	8	B
W107110	14	148	0.002	1	B
W107111	14	304	0.011	1	B
W107112	15	4	0.001	31	B
W107113	17	38	0.001	1	B
W107114	18	<2	<0.001	2	B
W107115	20	66	0.006	5	B
W107116	20	114	1.540	4	B
W107117	22	7	0.024	1.64%	B
W107118	27	<2	<0.001	19	B

***For Site Locations see Map 1 and Figures 5, 6, 7, 8 and 9**

5190600 mN

LEGEND

- ⊙ 21 — Mapping and sampling sites
- 30 — Greywacke; strike and dip of bedding
- 30 — Joint; strike and dip
- 60 — Shear/fracture Zone; strike and dip
- Interpreted major fault
- Breccia
- Road
- W107109 – Sample #

517600 mE

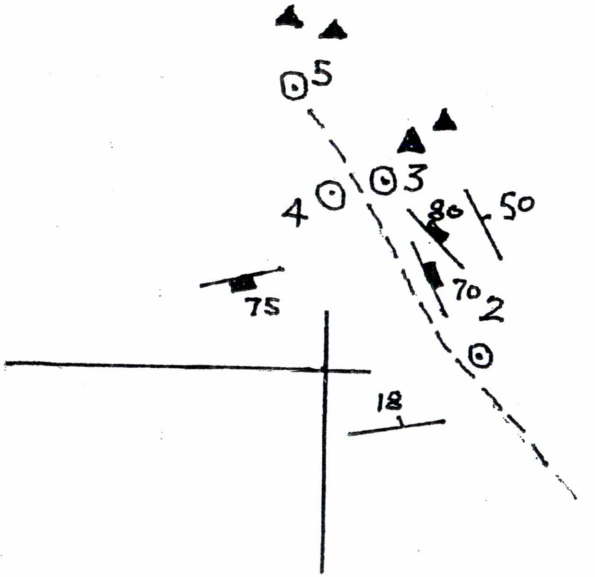
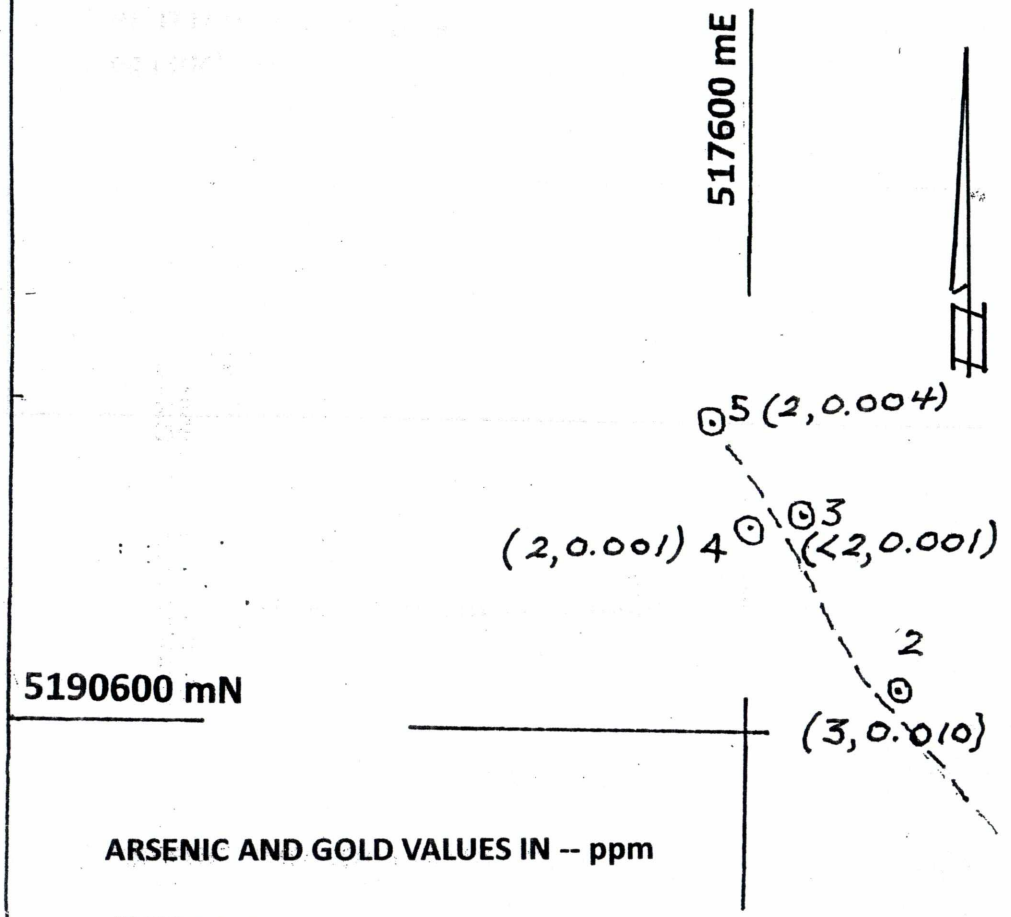


FIGURE 5

SHEPPARD PROPERTY
AYLMER TOWNSHIP

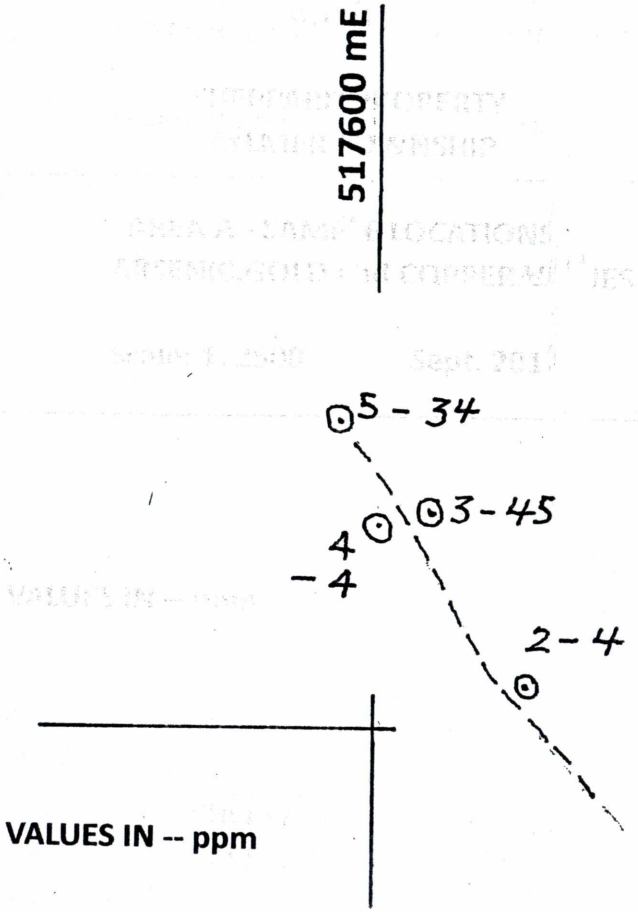
AREA A - GEOLOGICAL MAPPING

Scale: 1: 2500 Sept 2017



ARSENIC AND GOLD VALUES IN -- ppm

ARSENIC AND GOLD VALUES
PLOTTED AS; (Arsenic)(Gold)
eg (304) (0.011)



COPPER VALUES IN -- ppm

FIGURE 6

SHEPPARD PROPERTY
AYLMER TOWNSHIP

AREA A - SAMPLE LOCATIONS
ARSENIC,GOLD and COPPER VALUES

Scale: 1: 2500 Sept. 2017

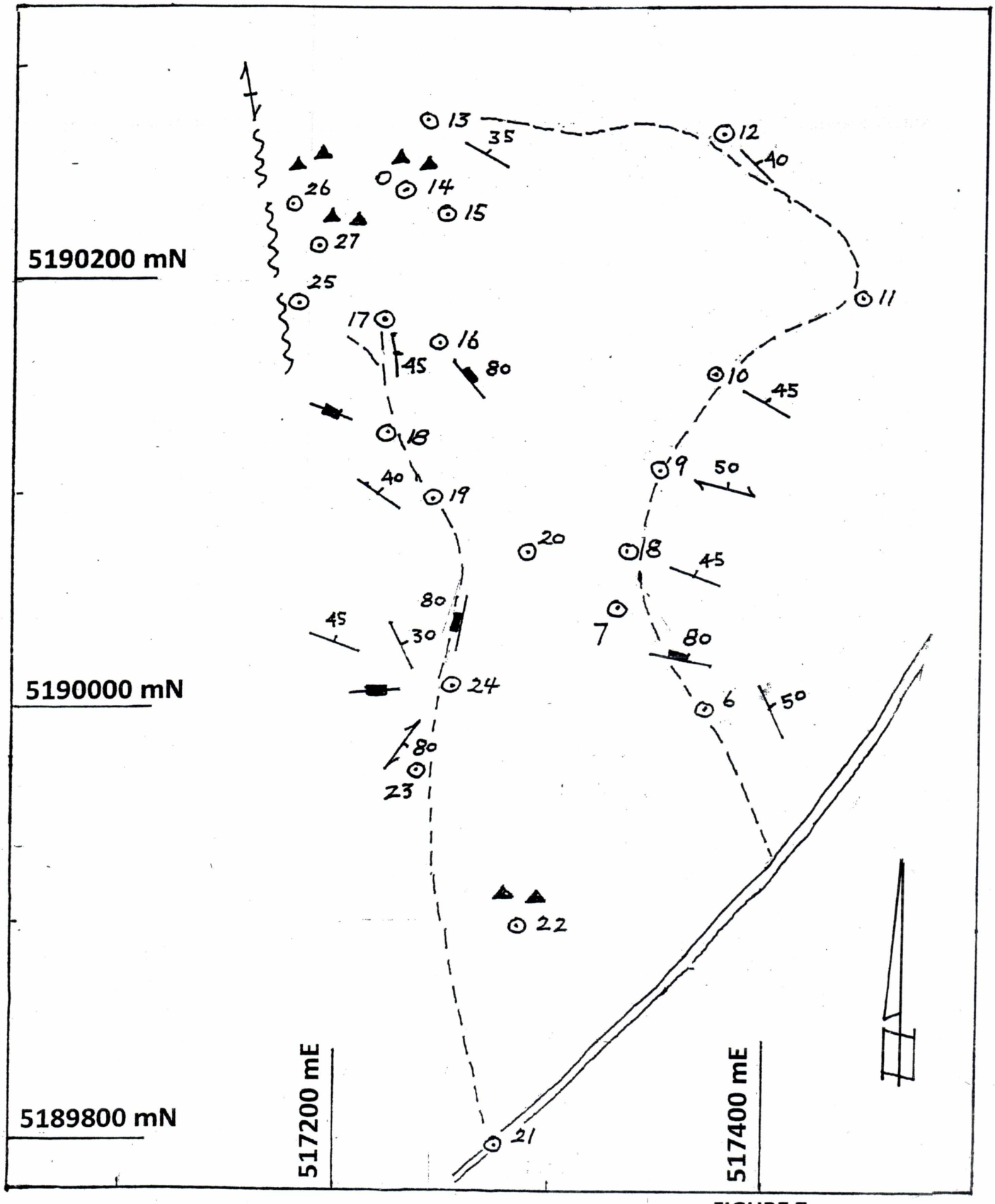


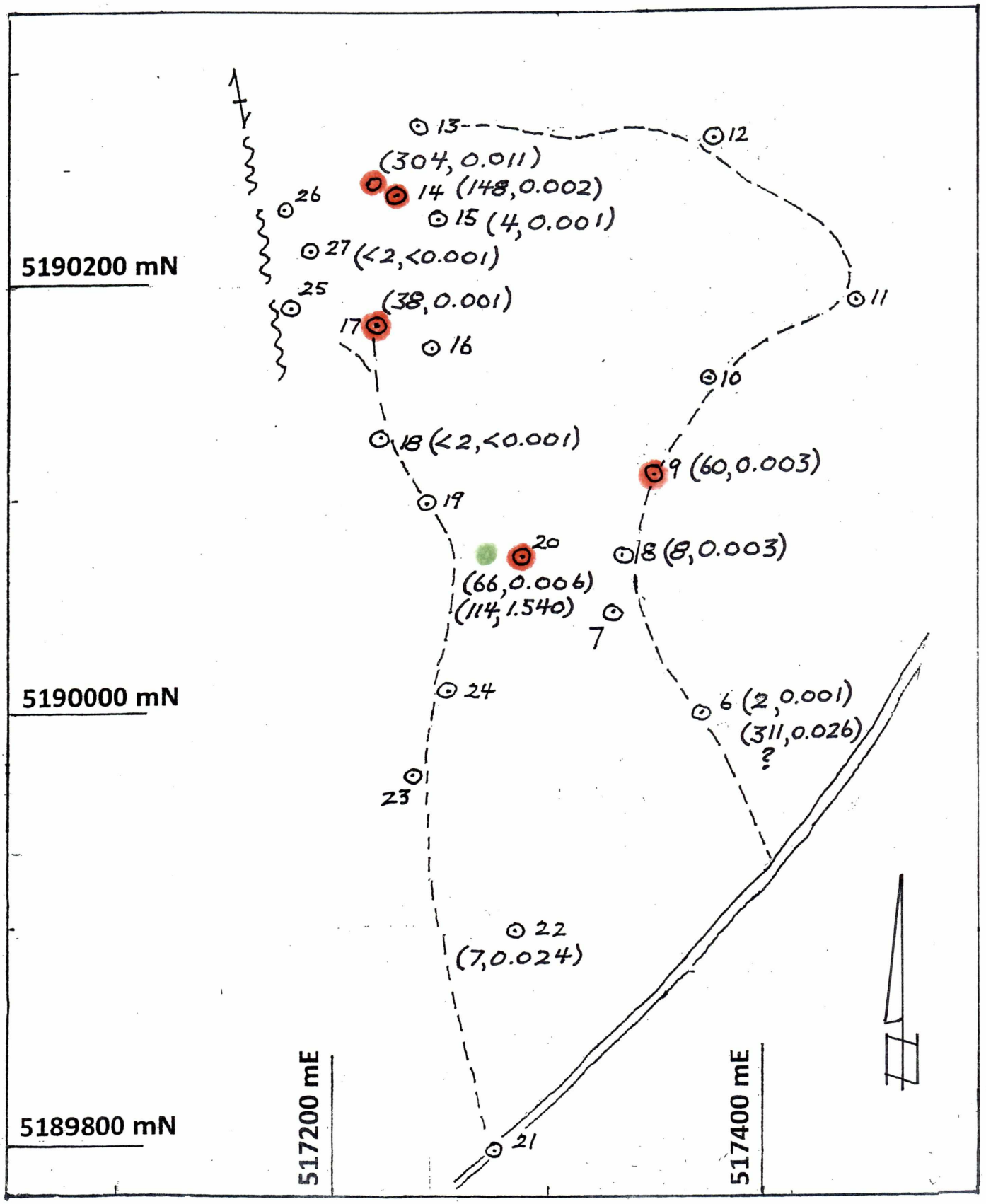
FIGURE 7

SEE FIGURE 5 FOR LEGEND

SHEPPARD PROPERTY
AYLMER TOWNSHIP

AREA B - GEOLOGICAL MAPPING

Scale: 1: 2500 Sept. 2017



ARSENIC AND GOLD VALUES
PLOTTED AS; (Arsenic)(Gold)
eg (304) (0.011)

ELEVATED ARSENIC VALUES

ELEVATED GOLD VALUES

FIGURE 8

SHEPPARD PROPERTY
AYLMER TOWNSHIP

ARSENIC (As) and GOLD (Au) VALUES IN ppm

Scale: 1: 2500 Sept. 2017

AREA B - SAMPLE LOCATIONS
ARSENIC and GOLD VALUES

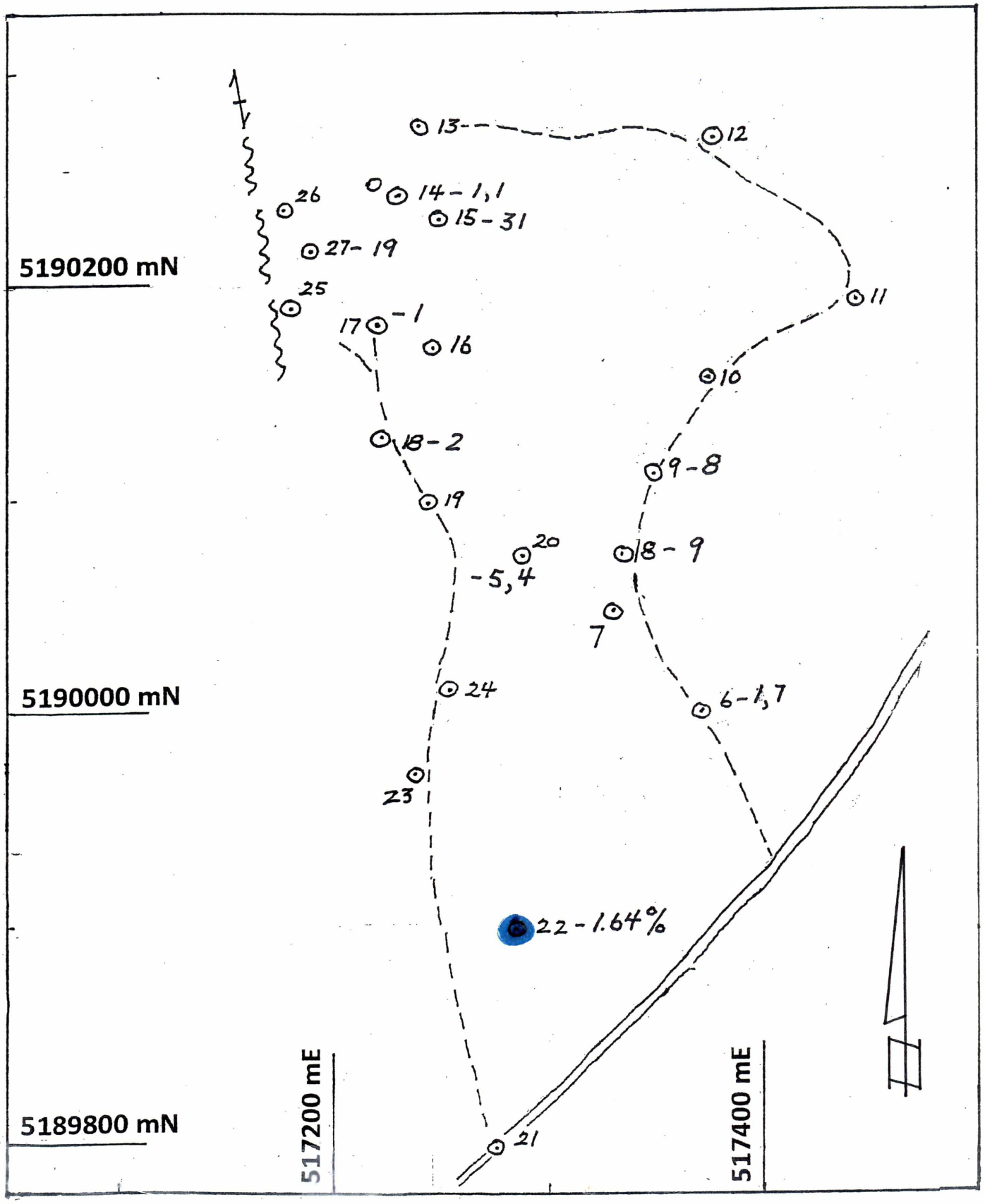


FIGURE 9

COPPER (Cu) VALUES IN ppm

ELEVATED COPPER VALUES

Scale: 1: 2500 Sept. 2017

SHEPPARD PROPERTY
AYLMER TOWNSHIP

AREA B - SAMPLE LOCATIONS
COPPER VALUES

10. Summary and Recommendation

In summary, it is considered that the mapping and sampling program has indicated a zone of potential gold-copper mineralization approximately 150 m wide and 400 m long and open to the north and south. The zone trends 350 degrees and lies on the eastern side of an interpreted regional fault with the same trend.

To further evaluate Area B for gold-copper mineralization of economic potential an Induced Polarization (IP) Survey is recommended. The mineralization currently exposed on surface may be the "top" or upward expression of larger zones of mineralization at depth. It is considered that an IP survey could detect mineralization of economic interest at depth.

11. Expenditures

The exploration expenditures for the sampling program and report are as follows:

1.	S. Winter: geological mapping and sampling: 3 days at $600/day	$1,800.00
2.	T. Sheppard: field assistant, 3 days at $300/man/day	900.00
3.	Sudbury to property and return @ 180 kms per day for 3 days $0.50/km	270.00
4.	ALS Minerals, 18 samples, gold and multielement analysis	752.87
5.	Report	1,000.00
	Subtotal:	$4,722.87
	GST @ 5% (BC)	35.85
	HST @ 13%	$516.10
	Total Expenditures:	**$5,274.82**
	meals	118.00
	Total	5393.00

L.D.S.Winter, BASc, MSc(App)

September 28, 2017

12. References

Dressler, B.O., 1980

Geology of the Wanapitei Lake Area, District of Sudbury, Ontario Geological Survey, Open File 5287

Gates, B.I., 1991

Sudbury Mineral Occurrence Study; Ontario Geological Survey, Open File Report 5771, 235 p.

Myer, W., 1995

Exploration Potential in the Sudbury Area; in Ontario Canada Explore the Opportunities, Mines and Minerals Division, Ontario Ministry of Northern Development and Mines, p. 16.

Schandl, E.S., Gorton, M.P. and Davis, D.W., 1994

Albitization of 1700 + 2 Ma in the Sudbury – Wanapitei Lake area, Ontario; implications for deep-seated alkali magmatism in the Southern Province; Can. J. Earth Sci., vol. 31, pp. 597-607

Smith, D., 2014

Site Visit, Delabbio Property, Aylmer Township, Ontario, Canada, 10 p., 3 Fig.

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CERTIFICATE OF AUTHOR

- I am currently an independent consulting geologist.
- I graduated with a degree in Mining Engineering (B.A.Sc) from the University of Toronto in 1957. In addition, obtained a Master of Science (Applied) (M.Sc. App.) from McGill University, Montreal, QC.
- I am a Member of the Geological Association of Canada, a Life Member of the Canadian Institute of Mining, a Life Member of the Prospectors and Developers Association of Canada
- I have worked as a geologist for over 50 years since my graduation from University.
- I am the author responsible for the preparation of the Report titled "Geological Mapping and Sampling Program, Sheppard Property, Aylmer Township, District of Sudbury, Ontario" and dated September 28, 2017.

Dated this 28th day of September, 2017

L.D.S. Winter,

APPENDIX 1

ALS MINERALS INVOICE AND SAMPLE ANALYTICAL RESULTS

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

To: **WINTERBOURNE EXPLORATIONS LTD.**
1849 ORIOLE DR
SUDBURY ON P3E 2W5

Finalized Date: 14-AUG-2017
This copy reported on
29-SEP-2017
Account: WINEXP

CERTIFICATE SD17156513

This report is for 18 Rock samples submitted to our lab in Sudbury, ON, Canada on 28-JUL-2017.

The following have access to data associated with this certificate:

TOM SHEPPARD	STEWART WINTER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
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
Cu-OG46	Ore Grade Cu - Aqua Regia	ICP-AES
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

To: **WINTERBOURNE EXPLORATIONS LTD.**
ATTN: STEWART WINTER
1849 ORIOLE DR
SUDBURY ON P3E 2W5

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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To: **WINTERBOURNE EXPLORATIONS LTD.**
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SUDBURY ON P3E 2W5

Finalized Date: 14-AUG-2017
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CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
W107101		1.20	<0.2	1.75	2	<10	200	<0.5	<2	0.27	<0.5	14	50	40	3.51	10
W107102		1.16	<0.2	0.90	3	<10	70	<0.5	<2	0.62	<0.5	15	40	4	2.75	<10
W107103		1.26	<0.2	0.55	<2	<10	30	<0.5	<2	5.07	<0.5	2	22	45	0.82	<10
W107104		1.49	<0.2	0.82	2	<10	60	<0.5	<2	0.19	<0.5	3	31	4	0.92	<10
W107105		1.19	<0.2	1.05	2	<10	40	<0.5	<2	0.43	<0.5	6	40	34	1.53	<10
W107106		1.25	<0.2	1.77	2	<10	60	<0.5	<2	0.30	<0.5	22	70	1	5.21	10
W107107		0.96	<0.2	0.18	311	<10	10	<0.5	<2	0.08	<0.5	497	7	7	10.95	<10
W107108		1.17	<0.2	0.32	8	<10	10	<0.5	<2	0.34	<0.5	34	44	9	1.99	<10
W107109		1.45	<0.2	0.18	60	<10	10	<0.5	<2	1.05	<0.5	66	13	8	2.87	<10
W107110		1.39	<0.2	0.18	148	<10	10	<0.5	<2	0.02	<0.5	215	12	1	2.28	<10
W107111		1.47	<0.2	0.15	304	<10	10	<0.5	<2	0.01	<0.5	469	8	1	3.52	<10
W107112		1.13	<0.2	0.66	4	<10	20	<0.5	<2	0.12	<0.5	24	59	31	2.15	<10
W107113		1.01	<0.2	0.10	38	<10	<10	<0.5	<2	2.40	<0.5	215	14	1	2.83	<10
W107114		1.02	<0.2	0.81	<2	<10	40	<0.5	<2	0.25	<0.5	7	45	2	2.83	<10
W107115		1.17	<0.2	0.14	66	<10	<10	<0.5	<2	0.65	<0.5	214	11	5	2.68	<10
W107116		1.08	<0.2	0.14	114	<10	<10	<0.5	<2	0.73	<0.5	377	11	4	4.16	<10
W107117		1.14	<0.2	0.37	7	<10	10	<0.5	4	1.09	<0.5	57	39	>10000	2.81	<10
W107118		1.08	<0.2	0.16	<2	<10	20	<0.5	<2	1.58	<0.5	6	15	19	1.08	<10

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1849 ORIOLE DR
SUDBURY ON P3E 2W5

Finalized Date: 14-AUG-2017
Account: WINEXP

CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
W107101		<1	0.48	20	1.36	343	1	0.04	47	460	2	0.06	<2	4	15	<20
W107102		<1	0.27	20	0.59	245	1	0.01	47	690	2	0.04	<2	2	9	<20
W107103		<1	0.13	10	3.44	451	1	0.03	37	410	<2	0.01	<2	2	18	<20
W107104		<1	0.22	10	0.55	70	1	0.03	45	560	<2	0.01	<2	1	4	<20
W107105		<1	0.15	20	0.90	103	1	0.04	68	530	<2	0.01	<2	2	5	<20
W107106		<1	0.22	20	1.09	97	1	0.02	60	770	<2	0.01	<2	2	5	<20
W107107		<1	0.03	<10	0.02	48	1	0.09	174	420	4	>10.0	<2	4	3	<20
W107108		<1	0.03	<10	0.21	128	2	0.09	11	170	<2	0.12	<2	1	7	<20
W107109		<1	0.04	10	0.47	220	1	0.11	30	680	<2	1.43	<2	10	18	<20
W107110		<1	0.09	<10	<0.01	61	2	0.10	18	80	<2	1.02	<2	1	4	<20
W107111		<1	0.07	<10	<0.01	28	4	0.11	32	50	<2	2.48	<2	<1	4	<20
W107112		<1	0.07	10	0.40	231	1	0.08	25	360	<2	0.06	<2	4	6	<20
W107113		<1	0.01	<10	1.08	253	1	0.09	31	550	3	2.04	<2	11	21	<20
W107114		<1	0.26	30	0.39	149	<1	0.02	31	730	<2	0.01	<2	2	4	<20
W107115		<1	0.02	<10	0.26	80	7	0.11	64	580	<2	2.35	<2	3	7	<20
W107116		<1	0.01	<10	0.28	90	5	0.12	196	720	2	4.19	<2	6	9	<20
W107117		<1	0.04	10	0.21	148	1	0.08	23	520	5	1.83	<2	4	7	<20
W107118		<1	0.05	20	0.65	592	1	0.08	10	430	3	0.02	<2	4	28	<20

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CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Au-ICP21	CRU-QC	PUL-QC
	Analyte	Ti	Tl	U	V	W	Zn	Cu	Au	Pass2mm	Pass75um
	Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	%
	LOR	0.01	10	10	1	10	2	0.001	0.001	0.01	0.01
W107101		0.09	<10	<10	33	<10	23		0.002	88.1	98.3
W107102		<0.01	<10	<10	12	<10	2		0.010		
W107103		<0.01	<10	<10	9	<10	5		0.001		
W107104		<0.01	<10	<10	11	<10	5		0.001		
W107105		<0.01	<10	<10	15	<10	3		0.004		
W107106		0.01	<10	<10	28	<10	<2		0.001		
W107107		<0.01	<10	<10	7	<10	<2		0.026		
W107108		0.01	<10	<10	21	<10	4		0.003		
W107109		<0.01	<10	<10	15	<10	<2		0.003		
W107110		<0.01	<10	<10	3	<10	<2		0.002		
W107111		<0.01	<10	<10	3	<10	<2		0.011		
W107112		0.02	<10	<10	40	<10	2		0.001		
W107113		<0.01	<10	<10	4	<10	<2		0.001		
W107114		<0.01	<10	<10	16	<10	<2		<0.001		
W107115		<0.01	<10	<10	10	<10	<2		0.006		
W107116		<0.01	<10	<10	11	<10	2		1.540		
W107117		<0.01	<10	<10	17	<10	<2	1.640	0.024		
W107118		<0.01	<10	<10	9	<10	2		<0.001		

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CERTIFICATE OF ANALYSIS SD17156513

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	

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

Applies to Method:				
	Au-ICP21	Cu-OG46	ME-ICP41	ME-OG46

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The following have access to data associated with this certificate:

TOM SHEPPARD	STEWART WINTER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
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
Cu- OG46	Ore Grade Cu - Aqua Regia	ICP- AES
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

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QC CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method Analyte Units LOR	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1
STANDARDS																
CCU- 1e																
Target Range - Lower Bound																
Upper Bound																
CDN- PGMS28																
Target Range - Lower Bound																
Upper Bound																
GAu- 12a																
Target Range - Lower Bound																
Upper Bound																
GBM903- 13																
Target Range - Lower Bound																
Upper Bound																
GLG305- 1																
Target Range - Lower Bound																
Upper Bound																
GMO- 12																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.5	2.59	36	<10	440	0.7	<2	1.07	2.1	18	90	621	3.58	10	<1
Target Range - Lower Bound		3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10	<1
Upper Bound		5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30	2
OGGeo08		19.8	2.14	114	<10	60	0.7	10	0.88	17.8	96	80	8150	5.00	10	<1
Target Range - Lower Bound		18.0	2.05	105	<10	60	<0.5	6	0.82	16.2	86	75	7800	4.51	<10	<1
Upper Bound		22.4	2.53	133	30	110	1.8	15	1.02	21.0	108	93	8980	5.53	30	3
OREAS 602		>100	0.59	643	<10	20	<0.5	57	0.52	24.4	9	34	5010	1.96	<10	1
Target Range - Lower Bound		106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10	<1
Upper Bound		100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30	3
OREAS 604																
Target Range - Lower Bound																
Upper Bound																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS- 45b		0.3	3.93	4	<10	150	0.6	<2	0.29	<0.5	72	612	422	14.50	20	<1
Target Range - Lower Bound		<0.2	3.73	<2	<10	120	<0.5	<2	0.25	<0.5	65	599	417	13.60	<10	<1
Upper Bound		0.6	4.58	7	20	190	1.8	4	0.33	1.1	82	735	481	16.60	40	2
OxJ120																

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SUDBURY ON P3E 2W5

Finalized Date: 14- AUG- 2017
Account: WINEXP

QC CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	0.01
STANDARDS																
CCU- 1e																
Target Range - Lower Bound																
Upper Bound																
CDN- PGMS28																
Target Range - Lower Bound																
Upper Bound																
GAu- 12a																
Target Range - Lower Bound																
Upper Bound																
GBM903- 13																
Target Range - Lower Bound																
Upper Bound																
GLG305- 1																
Target Range - Lower Bound																
Upper Bound																
GMO- 12																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		1.25	30	1.15	414	13	0.33	694	1050	1055	0.32	3	7	81	20	0.38
Target Range - Lower Bound		1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20	0.33
Upper Bound		1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60	0.43
OGGeo08		1.02	30	0.95	371	854	0.28	8700	780	7010	2.72	22	6	62	20	0.31
Target Range - Lower Bound		0.94	<10	0.84	350	810	0.26	7760	700	6510	2.51	15	4	59	<20	0.27
Upper Bound		1.18	50	1.05	438	992	0.34	9480	880	7970	3.09	27	9	74	60	0.36
OREAS 602		0.08	10	0.10	204	4	0.03	61	240	818	2.00	60	1	47	<20	0.01
Target Range - Lower Bound		0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	46	<1	44	<20	<0.01
Upper Bound		0.12	30	0.13	247	7	0.05	68	280	944	2.23	68	3	56	40	0.03
OREAS 604																
Target Range - Lower Bound																
Upper Bound																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS- 45b		0.07	20	0.12	735	1	0.01	207	430	21	0.03	<2	39	17	<20	0.21
Target Range - Lower Bound		0.05	<10	0.09	727	<1	<0.01	188		16	<0.01	<2	37	14	<20	0.19
Upper Bound		0.09	40	0.15	899	3	0.04	232		26	0.06	4	47	20	50	0.25
OxJ120																

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Finalized Date: 14- AUG- 2017
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QC CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Cu- OG46 Cu % 0.001	Au- ICP21 Au ppm 0.001
STANDARDS								
CCU- 1e							22.4	
Target Range - Lower Bound							22.1	
Upper Bound							23.7	
CDN- PGMS28								0.204
Target Range - Lower Bound								0.180
Upper Bound								0.206
GAu- 12a								0.021
Target Range - Lower Bound								0.019
Upper Bound								0.023
GBM903- 13							2.85	
Target Range - Lower Bound							2.79	
Upper Bound							3.00	
GLG305- 1								0.103
Target Range - Lower Bound								0.094
Upper Bound								0.109
GMO- 12							0.014	
Target Range - Lower Bound								
Upper Bound								
MRGeo08		<10	<10	100	<10	782		
Target Range - Lower Bound		<10	<10	90	<10	708		
Upper Bound		20	30	112	20	870		
OGGeo08		<10	<10	78	<10	6800		
Target Range - Lower Bound		<10	<10	70	<10	6500		
Upper Bound		20	30	88	20	7950		
OREAS 602		<10	<10	10	<10	3930		
Target Range - Lower Bound		<10	<10	8	<10	3680		
Upper Bound		20	20	14	20	4500		
OREAS 604							2.13	
Target Range - Lower Bound								
Upper Bound								
OREAS 621							0.360	
Target Range - Lower Bound								
Upper Bound								
OREAS- 45b		<10	<10	203	<10	156		
Target Range - Lower Bound		<10	<10	198	<10	154		
Upper Bound		20	20	244	20	192		
OxJ120								2.38

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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10	1
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	1	<0.01	<10	<1
Target Range - Lower Bound		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1
Upper Bound		0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20	2
DUPLICATES																
ORIGINAL		0.4	0.78	978	<10	30	0.5	<2	0.94	<0.5	19	16	82	5.22	<10	<1
DUP		0.4	0.76	1005	<10	40	0.5	<2	1.00	<0.5	20	16	83	5.34	<10	<1
Target Range - Lower Bound		<0.2	0.72	940	<10	20	<0.5	<2	0.91	<0.5	18	14	79	5.01	<10	<1
Upper Bound		0.6	0.82	1045	20	50	1.0	4	1.03	1.0	21	18	86	5.55	20	2
ORIGINAL		0.3	2.00	<2	<10	380	<0.5	<2	0.95	<0.5	21	69	291	3.51	10	<1
DUP		0.3	2.02	<2	<10	390	<0.5	<2	0.95	<0.5	21	69	291	3.54	10	<1
Target Range - Lower Bound		<0.2	1.90	<2	<10	350	<0.5	<2	0.89	<0.5	19	65	280	3.34	<10	<1
Upper Bound		0.4	2.12	4	20	420	1.0	4	1.01	1.0	23	73	302	3.71	20	2
W107106																
DUP																
Target Range - Lower Bound																
Upper Bound																

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

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To: **WINTERBOURNE EXPLORATIONS LTD.**
1849 ORIOLE DR
SUDBURY ON P3E 2W5

Finalized Date: 14- AUG- 2017
Account: WINEXP

QC CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01
STANDARDS																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	0.01	<2	<1	<1	<20	<0.01
BLANK		<0.01	<10	<0.01	<5	<1	<0.01	1	<10	<2	<0.01	<2	<1	1	<20	<0.01
Target Range - Lower Bound		<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20	<0.01
Upper Bound		0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40	0.02
DUPLICATES																
ORIGINAL		0.13	30	0.06	86	4	0.01	56	2590	11	4.76	24	4	22	<20	<0.01
DUP		0.13	30	0.06	88	4	0.01	57	2660	11	4.93	25	4	24	<20	<0.01
Target Range - Lower Bound		0.11	20	0.05	78	3	<0.01	53	2480	8	4.59	21	3	21	<20	<0.01
Upper Bound		0.15	40	0.07	96	5	0.02	60	2770	14	5.10	28	5	25	40	0.02
ORIGINAL		1.01	20	1.23	394	1	0.11	101	710	7	0.13	<2	5	20	<20	0.24
DUP		1.02	20	1.24	399	1	0.11	101	710	8	0.13	<2	5	20	<20	0.24
Target Range - Lower Bound		0.95	<10	1.16	372	<1	0.09	95	660	5	0.11	<2	4	18	<20	0.22
Upper Bound		1.08	30	1.31	421	2	0.13	107	760	10	0.15	4	6	22	40	0.26
W107106																
DUP																
Target Range - Lower Bound																
Upper Bound																

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To: **WINTERBOURNE EXPLORATIONS LTD.**
1849 ORIOLE DR
SUDBURY ON P3E 2W5

QC CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Cu- OG46 Cu % 0.001	Au- ICP21 Au ppm 0.001
STANDARDS								
Target Range - Lower Bound								2.22
Upper Bound								2.51
PK2								4.95
Target Range - Lower Bound								4.50
Upper Bound								5.07
BLANKS								
BLANK								<0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002
BLANK							<0.001	
Target Range - Lower Bound							<0.001	
Upper Bound							0.002	
BLANK		<10	<10	<1	<10	<2		
BLANK		<10	<10	<1	<10	<2		
Target Range - Lower Bound		<10	<10	<1	<10	<2		
Upper Bound		20	20	2	20	4		
DUPLICATES								
ORIGINAL		<10	<10	31	10	51		
DUP		<10	<10	31	10	52		
Target Range - Lower Bound		<10	<10	28	<10	47		
Upper Bound		20	20	34	20	56		
ORIGINAL		<10	<10	68	<10	59		
DUP		<10	<10	69	<10	59		
Target Range - Lower Bound		<10	<10	64	<10	54		
Upper Bound		20	20	73	20	64		
W107106								0.001
DUP								0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002

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Account: WINEXP

QC CERTIFICATE OF ANALYSIS SD17156513

Sample Description	Method / Analyte / Units / LOR	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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

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Sample Description	Method / Analyte / Units / LOR	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20	ME- ICP41 Ti % 0.01
		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- ICP41 Tl ppm 10	ME- ICP41 U ppm 10	ME- ICP41 V ppm 1	ME- ICP41 W ppm 10	ME- ICP41 Zn ppm 2	Cu- OG46 Cu % 0.001	Au- ICP21 Au ppm 0.001
DUPLICATES								
ORIGINAL								0.001
DUP								<0.001
Target Range - Lower Bound								<0.001
Upper Bound								0.002
ORIGINAL								0.001
DUP								0.003
Target Range - Lower Bound								<0.001
Upper Bound								0.003

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SUDBURY ON P3E 2W5

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14- AUG- 2017
Account: WINEXP

QC CERTIFICATE OF ANALYSIS SD17156513

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351- B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

Applies to Method:	CRU- 31	CRU- QC	LOG- 22	PUL- 31
	PUL- QC	SPL- 21	WEI- 21	

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

Applies to Method:	Au- ICP21	Cu- OG46	ME- ICP41	ME- OG46

APPENDIX 2

IOCG DEPOSITS

SGA SHORTCOURSE, ANTOFAGASTA CHILE, SEPTEMBER 2011

Australian Government

Geoscience Australia

IOCG deposits:

Introduction, unifying features, and diversity

Roger Skirrow

roger.skirrow@ga.gov.au

SGA Shortcourse on IOCG deposits, Antofagasta, September 2011

GEOSCIENCE AUSTRALIA

SGA, Antofagasta conference workshop on IOCG deposits, 2011

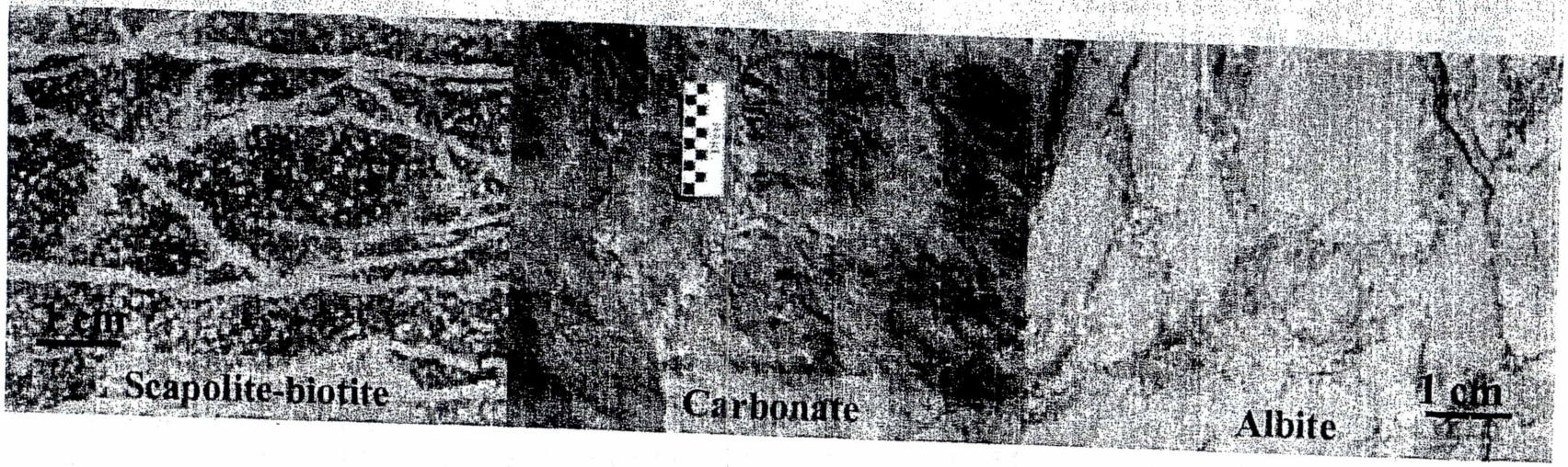
IOCG and related deposits in the northern part of the Fennoscandian Shield

Olof Martinsson

Luleå University of Technology

Ore related alteration

Au-type	Albite, sericite, carbonate, biotite, quartz, tourmaline
Cu-type	Albite, scapolite, carbonate, biotite, K-feldspar, sericite, tourmaline
Apatite iron ore	Albite, scapolite, amphibole, biotite, K-feldspar, sericite, quartz
Skarn Fe	Biotite, scapolite, amphibole, pyroxene, albite, garnet, epidote



	Metal association
Au-type	Au, Co, (As, Ni, U, Bi, Te, Mo, Zn, Cu)
Cu-type	Cu, Au, (Co, Mo, LREE, U, Ba)
Apatite iron ore	Fe, P, (LREE, Th, Cu, Co, Mo, Ba)
Skarn Fe	Fe, Cu, Au, (Co, Mn, LREE)
Typical-IOCG	*Cu, Au, U, (Fe, LREE, U, P, Ag, Co, Mo, Ba, As, Ni, W, Bi, Sn, Te*

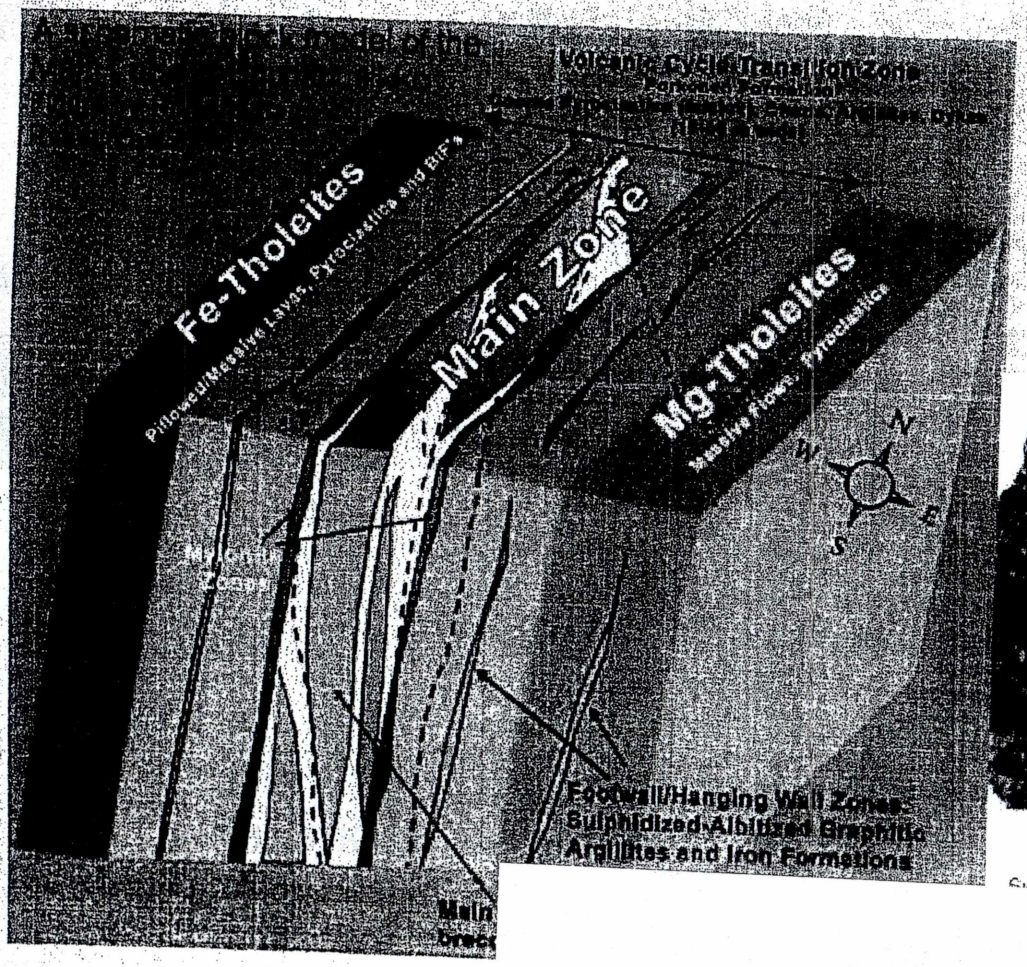
IOCG in the northern part of the Fennoscandian Shield

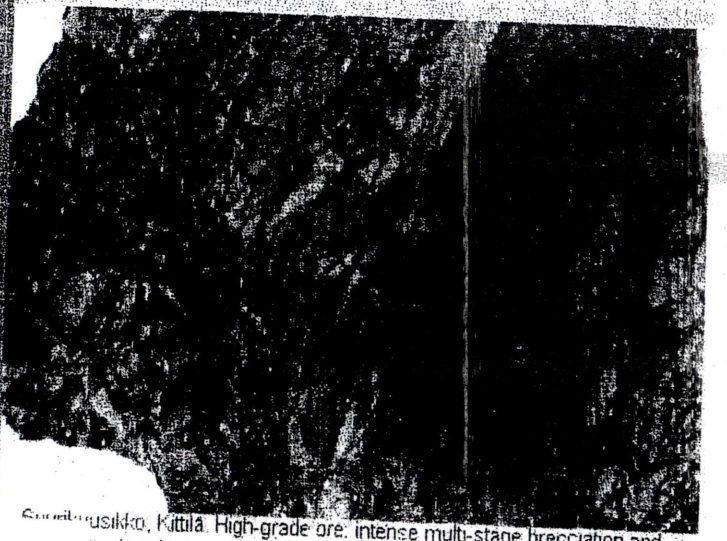
Suurikuusikko, 18.2Mt @ 5.1 ppm Au

Refracory gold: 71% in arsenopyrite, 22% in pyrite

Structurally controlled

Mineralization in brecciated and albite-carbonate altered graphite schist and mafic volcanic rocks with disseminated sulphides





Suurikuusikko, Kittilä. High-grade ore: intense multi-stage brecciation and], abundant arsenopyrite and pyrite. Host rock is a graphitic phyllite itic tuffite of intermediate primary composition. Field of view 6 cm. Photo Jari Väätäinen

517200 mE | 517400 mE | 517600 mE | 517800 mE | 518000 mE

5191000 mN

Site 1 Massive, vfg, med. grey, greywacke,+/_ 1% py W107101

Site 8 Outcrop west side of road, bedded(20 cm to 25 cm), vfg with pink albite alteration. W107108

Site 4 10m west of Site 3. Vfg, light grey bedded greywacke, W107105

Site 9 5 m wide zone of pink albite alt., diss. euhedral pyrite and up to 30 to 40% limonite after pyrite. W107109

Site 5 Bedded greywacke with breccia fragments in "beds" parallel to strike, iron carb. matrix to breccia plus pink albite alteration Very little pyrite

Site 10 Greywacke hosting a gossan, covered by a red-brown soil.

5190800 mN

Site 6 Outcrop, west side of road massive, vfg greywacke. W107106. Loose boulders and cobbles, 10 cm to 15 cm, pink, albite alt. and 20% cse diss. pyrite. W107107

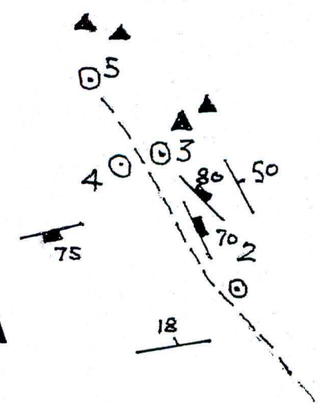
5190800 mN

Site 12 Greywacke with bedding on a 10 cm to 20 cm scale

Site 2 Bedded greywacke, 1 cm to 10 cm beds, vfg, med grey colour W107102 and W107101 from pile of breccia

LEGEND

- ⊙ 21 Mapping and sampling sites
- Greywacke; strike and dip of bedding
- Joint; strike and dip
- Shear/fracture Zone; strike and dip
- Interpreted major fault
- Breccia
- Road
- W107109 -- Sample #



AREA A

Site 3 Vfg, grey, greywacke, pink to brownish-pink aibite veining, angular breccia with albite alteration halos of fragments. malachite stain. W107104

5190600 mN

5190600 mN

Site 26 This is the NW corner of the quartz-breccia zone.and immediately adjacent to a very steep cliff and valley to the west and trending 350 . The quartz breccia contains 10 to 15% cubic pyrite / cubic casts after pyrite.

Site 13 Bedded greywacke with siltstone beds 30 cm to 40 cm thick

Site 20 Gold showing. Two samples were taken of pink to pink-brown altered greywacke carrying diss. pyrite W107115 and W107116

5190400 mN

Site 27 At south end of quartz breccia zone on edge of quarry area, just above Site 17. Fault zone is 20m to west. W107118

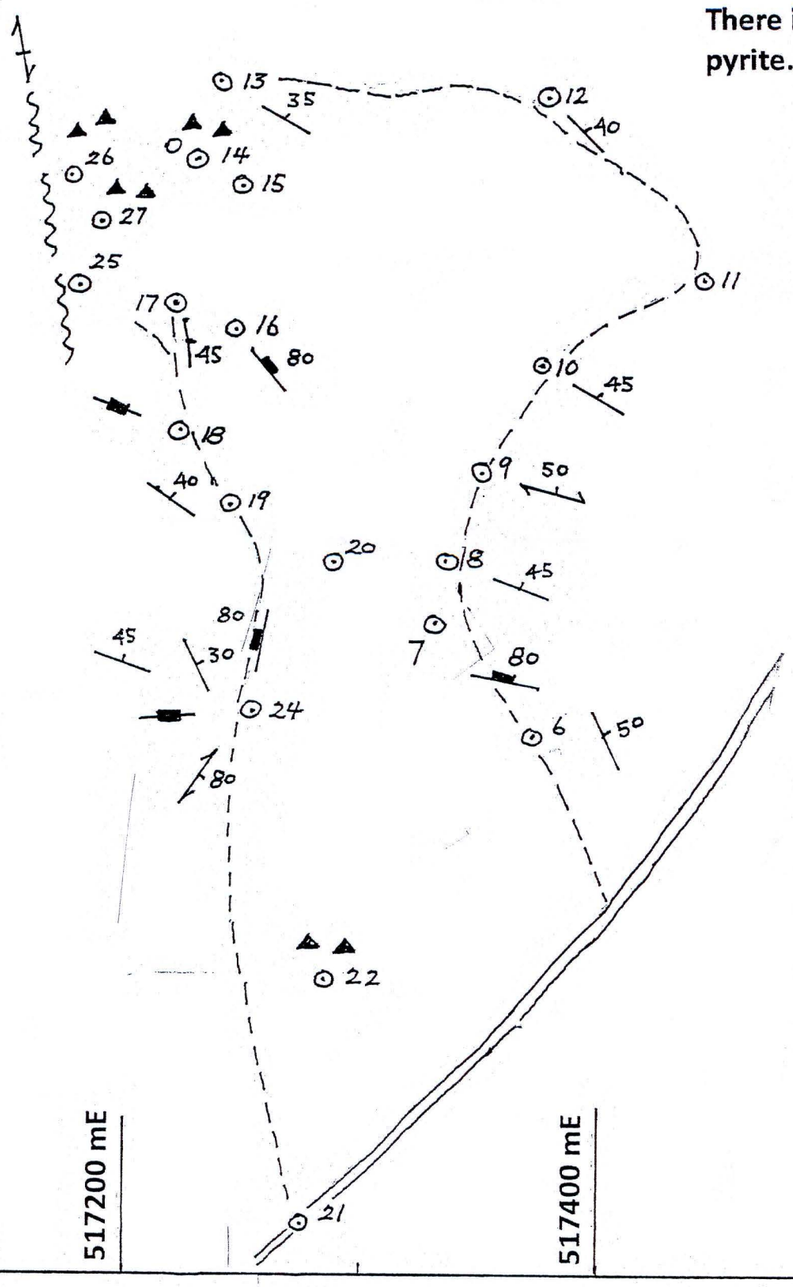
Site 14 Greywacke with highly contorted bedding and extensive breccias. Breccias with a grey quartz matrix and also cut by grey quartz veinlets. Cavities and "stringers" of limonite after pyrite. W107110

10 m to north is a second showing with pink, albite alt., quartz veining and euhedral pyrite and casts to 5%. There is considerable limonite after pyrite. W107111

Site 22 Original showing. Here there is a very finely bedded greywacke with albite/pink alt. cut by pink(albite?0 and quartz stringers and chalcopyrite and pyrite as diss. grains and blebs. W107117

5190400 mN

AREA B



Site 15 On the east edge of an outcrop ridge there is highly contorted bedding of a vfg,grey to light-grey, albite? altered, greywacke W107112

Site 16 Thinly bedded, greywacke with up to 10 cm thick siltstone beds.

Site 23 Blasted pit beside quarry road. Some old drill holes 50 m to west. Reported assay from pit of 12% Cu.

5190200 mN

Site 24 Finely bedded greywacke, fractured and mineralized on a 035 /80 E trend. Central zone of pink albite alt with quartz and diss. pyrite along fractures. Limonite plus vfg chlorite along fractures and contacts

Site 17 Rock pile from a small quarry pit. Quartz breccias, albite alteration, zones of euhedral, cubic, limonite-filled cavities after pyrite and some pyrite. (+/_ 20%) W107113

Site 18 Outcrop of vfg, grey, greywacke. W107114

Site 19 Quarry access road passes between 2 outcrops of greywacke with thin layers showing albite-iron carbonate alteration.

MAP 1
SHEPPARD PROPERTY
AYLMER TOWNSHIP
MAIN ZONE
GEOLOGICAL MAPPING

Scale: 1: 2500 Sept. 2017

5190000 mN

5189800 mN

517200 mE | 517400 mE | 517600 mE | 517800 mE