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**CANADIAN EXPLORATION SERVICES LTD**

**TIGER GOLD EXPLORATION  
CORPORATION**

**Q2154 - Harker Heritage Property - Area 6  
Physical Properties**

**C Jason Ploeger, P.Geo – February 13, 2017**

# Tiger Gold Exploration Corporation

## **Abstract**

CXS was contracted by Tiger Gold Exploration Corporation to measure the physical properties of rock samples collected during of prospecting campaign over the Harker Heritage – Area 6 which is in Elliot Township. The contract was to cut and measure the High Frequency, Magnetic Susceptibility and Conductivity of these samples.

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **Harker Heritage Property – Area 6.**

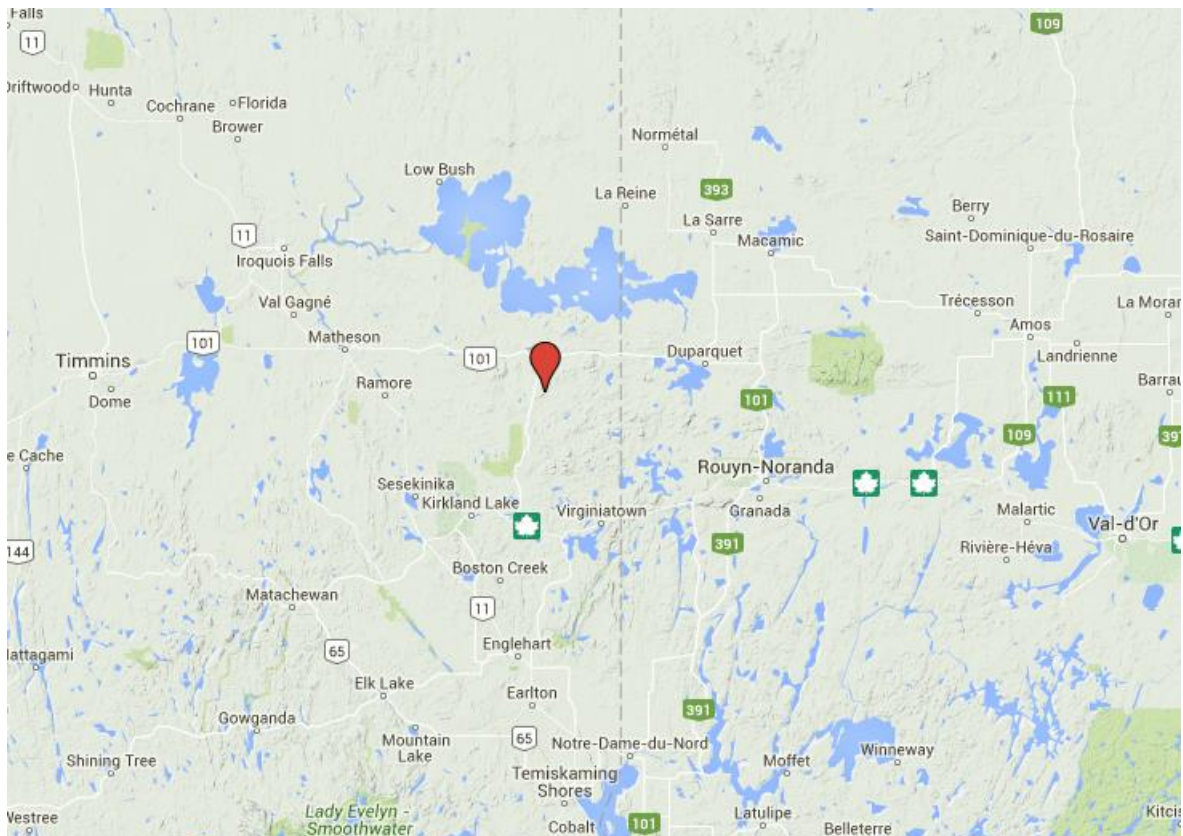
### 1.1 CLIENT

TIGER GOLD EXPLORATION CORPORATION,

103 Government Road.  
Kirkland Lake, Ontario  
P2N 1A9

### 1.2 LOCATION

The Harker Heritage Property is located approximately 50 km northeast of Kirkland Lake, Ontario. The property consists of 375 mining claims comprising of over 850 units spanning Clifford, Elliot, Harker, Holloway, Tannahill and Marriott Townships within the Larder Lake Mining Division.



**Figure 1: Location of the Harker Heritage Property**

### **1.3 ACCESS**

Access to the property was attained with a 4x4 truck via highway 672 and highway 101. Numerous forestry access roads and trails were travelled by ATV to access the various parts of the property.

Area 6 is located within Elliot Township. Access to this area was directly off of highway 672 approximately 36.5 kilometers north of its intersection with highway 66. From here an ATV was used to access the survey region.

### **1.4 SURVEY AREA**

The traversed lines were established using a GPS in conjunction with the execution of the survey. The survey area was for reconnaissance and therefore randomly generated in the field based on topography and vegetation.

### **1.5 REGIONAL GEOLOGY**

The property is hosted in the Archean aged Blake River Group of the Abitibi sub province. Volcanic rocks of the area are classified chemically as tholeiitic and calc-alkaline. They include a wide spectrum of rock types ranging from basalts to rhyolites. Intrusive rocks include gabbros, diorites and feldspar porphyries with scattered rare diabase dykes. Mapping in the region has identified several east west trending fold axis that lead to the repetition of units in a north south direction.

### **1.6 PREVIOUS WORK**

From 1985 to present the holders of the claims within this area have cut many grids and performed many magnetic and VLF surveys over this area of the property.

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**2. SURVEY WORK UNDERTAKEN****2.1 SURVEY LOG**

<b>Date</b>	<b>Description</b>
November 18, 2015	Collected Sample 06059
	Collected Sample 06060
	Collected Sample 06061
	Collected Sample 06062
	Collected Sample 06063
	Collected Sample 06064
	Collected Sample 06065
	Collected Sample 06066
February 18, 2016	Cut sample and test physical properties.

***Table 1: Survey Log***

**2.2 PERSONNEL**

Bill Bonney of Kirkland Lake, Ontario performed the prospecting traverse and collected GPS waypoint data and rock samples.

C Jason Ploeger of Larder Lake, Ontario cut the samples and performed the physical property readings.

**2.3 SURVEY SPECIFICATIONS**

The rock samples were collected on a previously reported prospecting campaign. These samples were cut and the physical property measurements were taken using a GDD MPP-EM2.

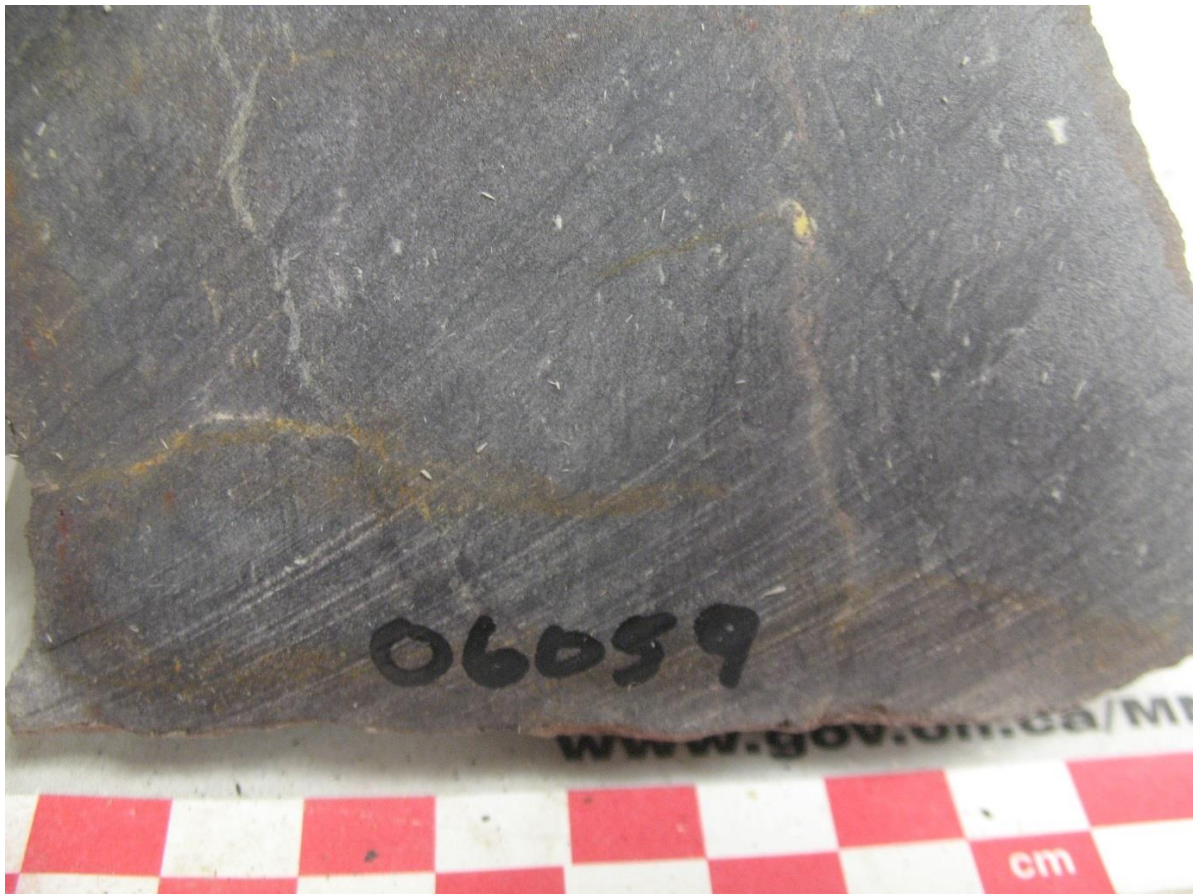
### 3. OVERVIEW OF SURVEY RESULTS

#### Sample 06059

NAD 83 - Zone 17N  
588609E 5364690N

High Frequency	0.0
Magnetic Susceptibility	0.0 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The vegetation is mixed at this location.



**Figure 2: Sample 06059**



**Sample 06060**

**NAD 83 - Zone 17N  
589469E 5365060N**

High Frequency	0.0
Magnetic Susceptibility	0.2 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

This outcrop was located within a clearcut.



**Figure 3: Sample 06060**

**Sample 06061**

**NAD 83 - Zone 17N**

**589832E 5365157N**

High Frequency	0.0
Magnetic Susceptibility	7.1 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

This outcrop was located within a clearcut.



**Figure 4: Sample 06061**

**Sample 06062**

**NAD 83 - Zone 17N**

**589516E 5365803N**

High Frequency	0.0
Magnetic Susceptibility	1.5 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The vegetation at this location is mainly composed of birch and spruce. This sample was collected from the face of a historic trench located at this location



**Figure 5: Sample 06062**

**Sample 06063**

**NAD 83 - Zone 17N**

**589995E 5363854N**

High Frequency	0.0
Magnetic Susceptibility	0.6 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The vegetation at this location is mainly composed of a mixture of birch and spruce



**Figure 6: Sample 06063**

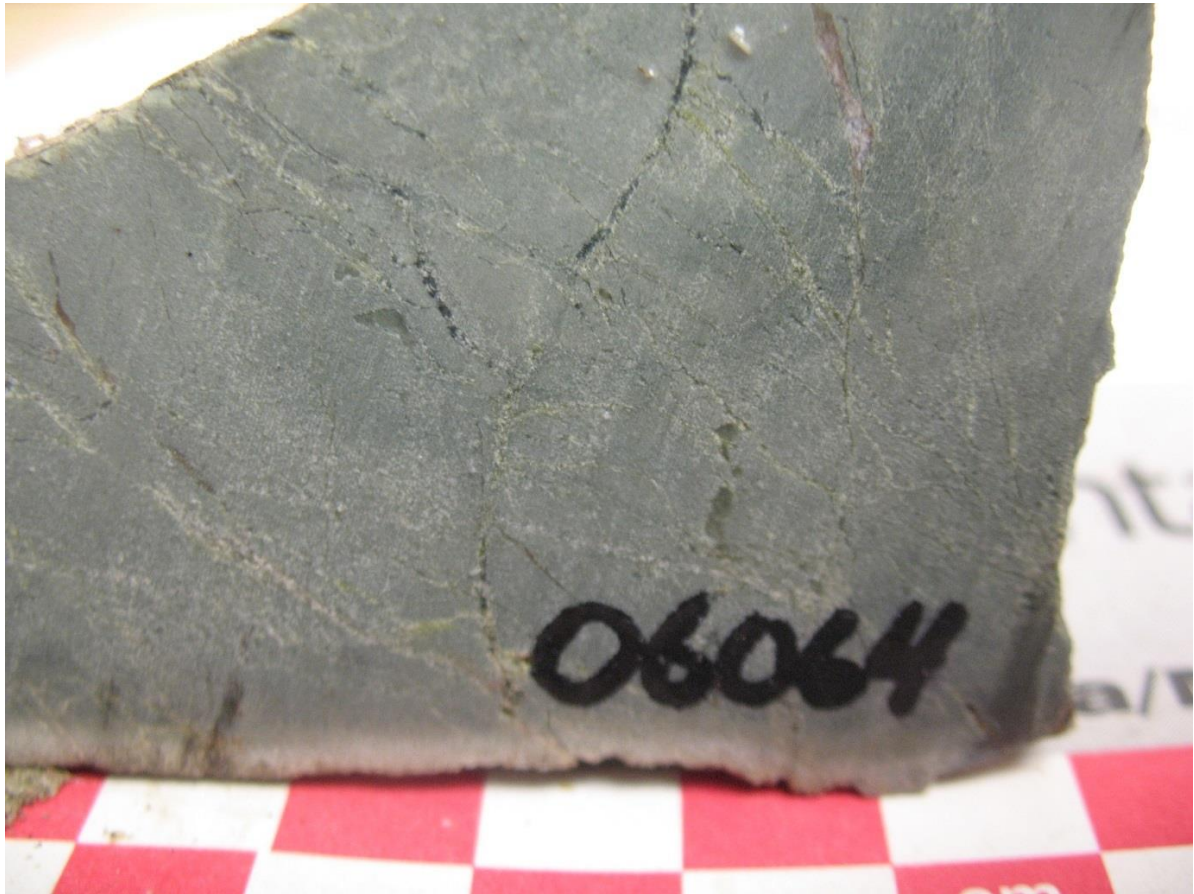
**Sample 06064**

**NAD 83 - Zone 17N**

**590169E 5363856N**

High Frequency	0.0
Magnetic Susceptibility	1.0 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The vegetation at this location is mainly composed of a mixture of poplar and spruce.



**Figure 7: Sample 06064**

**Sample 06065**

**NAD 83 - Zone 17N**

**590543E 5363991N**

High Frequency	0.0
Magnetic Susceptibility	0.5 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The vegetation at this location is mainly composed of a mixture of various trees.



**Figure 8: Sample 06065**

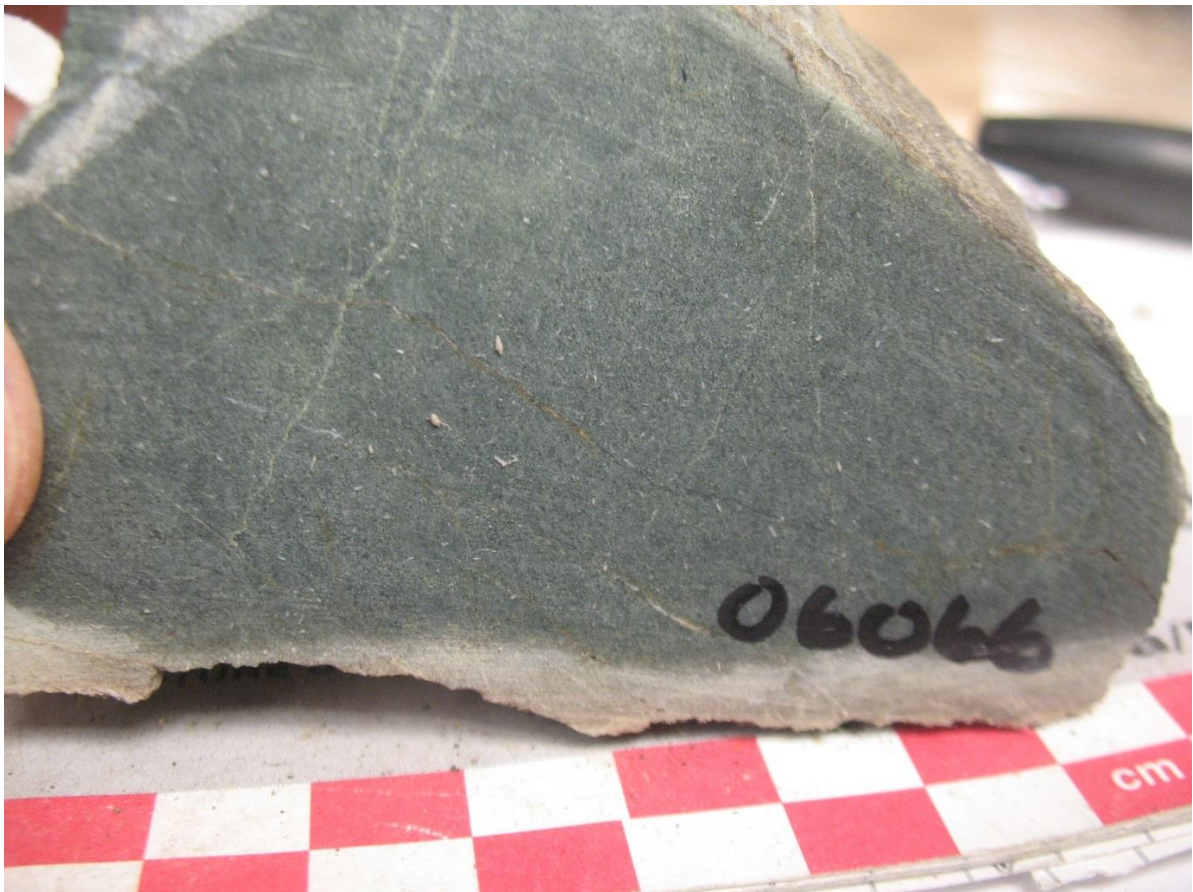
**Sample 06066**

**NAD 83 - Zone 17N**

**590828E 5363992N**

High Frequency	0.0
Magnetic Susceptibility	1.2 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

This sample was collected from an outcrop located in a stand of spruce .



**Figure 9: Sample 06066**

From this area eight samples had been previously collected. The physical properties measured indicate a weak response in high frequency, magnetic susceptibility and conductivity. This indicates that there should be little response in IP, magnetometer and EM surveys from these geological units that these samples represent.



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## APPENDIX A

### STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I am a Practising Member of the Association of Professional Geoscientists, with membership number 2172.
3. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.
4. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.
5. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.
6. I do not have nor expect an interest in the properties and securities of **Tiger Gold Exploration Corporation**.
7. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.



C. Jason Ploeger, P.Geo., B.Sc.  
Geophysical Manager  
Canadian Exploration Services Ltd.

Larder Lake, ON  
February 13, 2017

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**APPENDIX B****MPP-EM2**

Thanks to the MPP-EM2S+, users are now able to instantly confirm the properties of the sulphides contained in rock samples picked up at the surface or in old or new drilled cores.

The MPP-EM2S+ detects the magnetic susceptibility ( $10^{-6}$  SI) as well as the relative and absolute conductivity (MHOS/M) values of small and large objects such as drilling cores, field samples, floats, showings, etc.

The MPP-EM2S+ consists of a handy gun-shaped probe connected to a PDA reading unit. The MPP-EM2S+ probe measures simultaneously up to ten times per second the magnetic susceptibility ( $10^{-6}$  SI) and the relative and absolute conductivity (MHOS/M). Easy to use, one can scan drill cores, field samples, floats or showings

**Features**

- Provides real time feedback.

- 
- Offers the possibility to use the probe either with Bluetooth (wireless) or a cable RS-232.
  - Logs cores properties & position in the PDA.
  - Saves time by logging both properties in one pass; the Mag susceptibility as well as the relative conductivity values displayed in real time.
  - Measures magnetic susceptibility with precision in all conditions. Detects conductors at all time.
  - Records and dumps data (almost infinite readings) in ASCII format: hole identification, depth, recorded values, date, time, etc.
  - Transfers data to a PC via USB.
  - Emits a modulated sound signal for conductors.
  - Calibrated at  $10^{-6}$  SI & MHOS/M.
  - Easy to use and inexpensive.
  - Possibility to supply the probe with 120-240V power supply
  - Possibility to clip the probe to your belt to free your hands

The operator can record data one reading at a time or in a continuous scanning mode (10 times/second) to make a profile. The recorded data from the PDA or PC are stored in ASCII file: hole identification, depth, recorded values, date, time, etc. Afterward, the ASCII format can be imported to a drafting software (Excel, Microstation, Autocad, etc). For example, the susceptibility and the conductivity can be plot along a DDH with the laboratories assays. A software designed by Instrumentation GDD helps the end user to draw quickly the profiles and interpret the geophysical properties using an Excel Macro.

### **Specifications**

- Three modes: manual, automatic and graphic.
- Sample rate: 10 times per second.
- Displayed rate: every 0.5 second.
- Manual sampling by pressing display.
- Auto sampling: 0.1 to 60 seconds range- continuous mode.
- Improved hardware to record data with special button on the latest MPP-EM2S+ probe

**APPENDIX B**

**GARMIN GPS MAP 62S**



<b>Physical &amp; Performance:</b>	
Unit dimensions, WxHxD:	2.4" x 6.3" x 1.4" (6.1 x 16.0 x 3.6 cm)
Display size, WxH:	1.43" x 2.15" (3.6 x 5.5 cm); 2.6" diag (6.6 cm)
Display resolution, WxH:	160 x 240 pixels
Display type:	transflective, 65-K color TFT
Weight:	9.2 oz (260.1 g) with batteries
Battery:	2 AA batteries (not included); NiMH or Lithium recommended
Battery life:	20 hours
Waterproof:	yes (IPX7)
Floats:	no
High-sensitivity re-	yes

ceiver:	
Interface:	high-speed USB and NMEA 0183 compatible

Maps & Memory:	
Basemap:	yes
Preloaded maps:	no
Ability to add maps:	yes
Built-in memory:	1.7 GB
Accepts data cards:	microSD™ card (not included)
Waypoints/favorites/locations:	2000
Routes:	200
Track log:	10,000 points, 200 saved tracks

Features & Benefits:	
Automatic routing (turn by turn routing on roads):	yes (with optional mapping for detailed roads)
Electronic compass:	yes (tilt-compensated, 3-axis)
Touchscreen:	no
Barometric altimeter:	yes
Camera:	no
<u>Geocaching-friendly:</u>	yes (paperless)
<u>Custom maps compatible:</u>	yes
Photo navigation (navigate to geotagged photos):	yes
Outdoor GPS games:	no

Hunt/fish calendar:	yes
Sun and moon information:	yes
Tide tables:	yes
Area calculation:	yes
Custom POIs (ability to add additional points of interest):	yes
Unit-to-unit transfer (shares data wirelessly with similar units):	yes
Picture viewer:	yes
Garmin Connect™ compatible (online community where you analyze, categorize and share data):	yes

- *Specifications obtained from [www.garmin.com](http://www.garmin.com)*

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**APPENDIX C**

**LIST OF MAPS (IN MAP POCKET)**

Physical Properties Plan Map (1:20000)

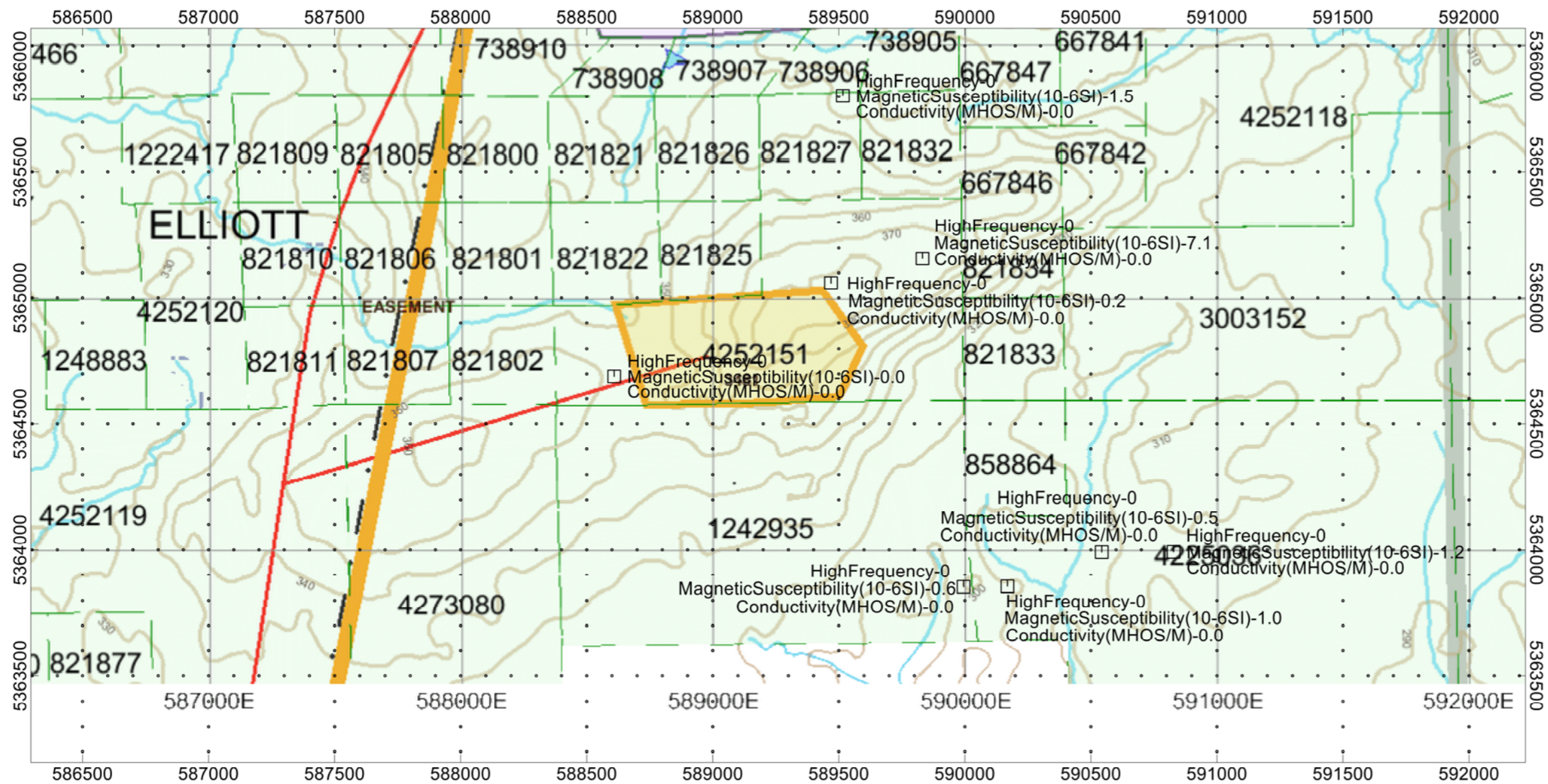
- 1) Q2154-Tiger-Harker Heritage-Area 6-PhysProp

**TOTAL MAPS = 1**

877.504.2345 | info@cxsltd.com | www.cxsltd.com



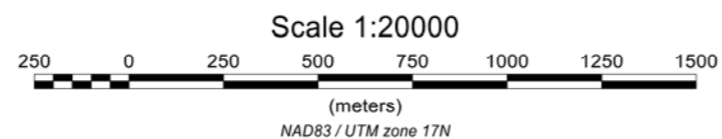




**TIGER GOLD  
EXPLORATION CORPORATION**

**HARKER HERITAGE PROPERTY  
Area 6  
Elliott Township, Ontario**

PHYSICAL PROPERTY PLAN MAP



Traversed By: Bill Bonney  
Processed by: C Jason Ploeger, B.Sc.  
Map Drawn By: C Jason Ploeger, B.Sc.  
February 2017



Drawing: TIGER-HARKER HERITAGE-AREA 6-PHYSPROP