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**Assessment Report  
On the  
Horne Project  
Thunder Bay South Mining Division  
Northwestern Ontario**  
NTS MAP SHEETS 52A/05 AND 52A/12

**Prepared for  
5042078 Ontario Inc  
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Clark Exploration and Consulting Inc.  
December 10, 2021

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## 1.0 SUMMARY

The Horne property is situated in the Horne township within NTS map sheets 52A/05 and 52A/12 in the Thunder Bay South Mining Division. The Property is located 45km west of Thunder Bay, Ontario and can be easily accessed along main roads. The Horne Property is comprised of 9 boundary cell claims and 37 single cell claims, totalling 984 hectares. The total work requirement for the claims is \$16,600 annually.

The Horne Property area is underlain by Neoproterozoic rocks of the Superior Province and by Paleoproterozoic rocks of the Southern Province (Berger, 1993 and Berger and Rogers, 1994). The property is situated within the Shebandowan Greenstone Belt, a component of the Wawa Subprovince of the Superior Province (Bajc, 1999). The Shebandowan Greenstone Belt is fault-bounded to the north by metasedimentary and felsic intrusive rocks of the Quetico Subprovince and is overlain to the south by Paleoproterozoic metasedimentary rocks of the Animikie Group also known as the Gunflint and Rove Formations (Bajc, 1999). The Neoproterozoic rocks of the Shebandowan Greenstone Belt are composed mainly of ultramafic, mafic, intermediate and felsic metavolcanic rocks. The supracrustal rocks are divided into two assemblages: the Greenwater and Shebandowan assemblages described in the work of Carter (1985 and 1986) and Williams et al (1991) (Berger, 1993 and Berger and Rogers, 1994). The entirety of Horne Township is underlain by Archean rocks which are composed primarily of a metavolcanic sequence or a Keewatin-type sequence (Carter, 1990).

Greenwater assemblage of volcanic and associated metasediments are of interest. The rock types found within the property boundary include; mafic, ultramafic, intermediate metavolcanic, coarse clastic metasedimentary rocks, dacitic and andesitic flows, tuffs and breccias, felsic to intermediate metavolcanics, alkaline metavolcanic rocks, and metasedimentary rocks comprised of: conglomerate, arkose, arenite, wacke, sandstone, siltstone, and graphitic argillite. There is a fault running northwest – southeast through the property and there are two iron occurrences within the property boundary. Portions of the property are also underlain by mafic intrusive rocks (Bajc, 1999).

Clark Exploration was contracted by 5042078 Ontario Inc. to carry out a prospecting and sampling program over 6 days on the days of September 29th-30th, October 4th-6th and 14th, 2021. A total of 24 grab samples were collected from the property and sent for gold and multi element analysis at Activation Laboratories (Actlabs) in Thunder Bay, Ontario. A maximum value of 40 ppb gold was returned from sample B181362. The highest Cu and Ni concentrations reported were 217 ppm Cu from sample B181372, and 1730 ppm Ni from sample B181368.

## 2.0 INTRODUCTION

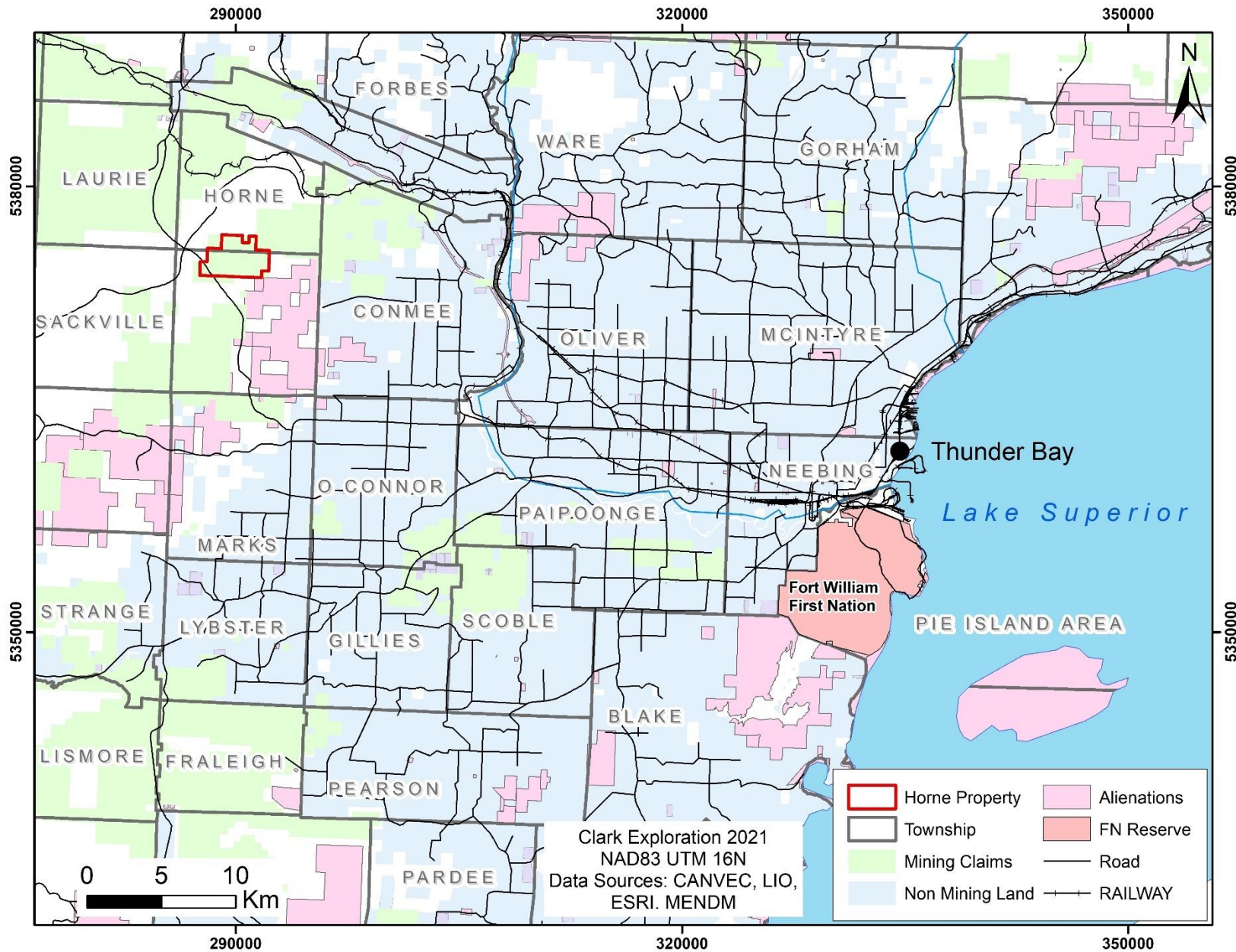
The Horne property is situated in the Horne township within NTS map sheets 52A/05 and 52A/12 in the Thunder Bay South Mining Division. The Property is located 45km west of Thunder Bay, Ontario and can be easily accessed along main roads (Figure 1). The Horne Property is comprised of 9 boundary cell claims and 37 single cell claims, totalling 984 hectares. The claims are shown in Figure 2 and are listed in Table 1. The total work requirement for the claims is \$16,600 annually.

From Thunder Bay, the property can be reached by travelling west on Highway 11/17 and then west on Highway 590 which is just past the town of Kakabeka Falls, Ontario. Follow Highway 590 for approximately 12 kilometres to the Adrian Lake Road. The property can be directly accessed via Adrian Lake Road.

The Horne Property area is underlain by Neoproterozoic rocks of the Superior Province and by Paleoproterozoic rocks of the Southern Province (Berger, 1993 and Berger and Rogers, 1994). The property is situated within the Shebandowan Greenstone Belt, a component of the Wawa Subprovince of the Superior Province (Bajc, 1999). The Shebandowan Greenstone Belt is fault-bounded to the north by metasedimentary and felsic intrusive rocks of the Quetico Subprovince and is overlain to the south by Paleoproterozoic metasedimentary rocks of the Animikie Group also known as the Gunflint and Rove Formations (Bajc, 1999). The Neoproterozoic rocks of the Shebandowan Greenstone Belt are composed mainly of ultramafic, mafic, intermediate and felsic metavolcanic rocks. The supracrustal rocks are divided into two assemblages: the Greenwater and Shebandowan assemblages described in the work of Carter (1985 and 1986) and Williams et al (1991) (Berger, 1993 and Berger and Rogers, 1994). The entirety of Horne Township is underlain by Archean rocks which are composed primarily of a metavolcanic sequence or a Keewatin-type sequence (Carter, 1990).

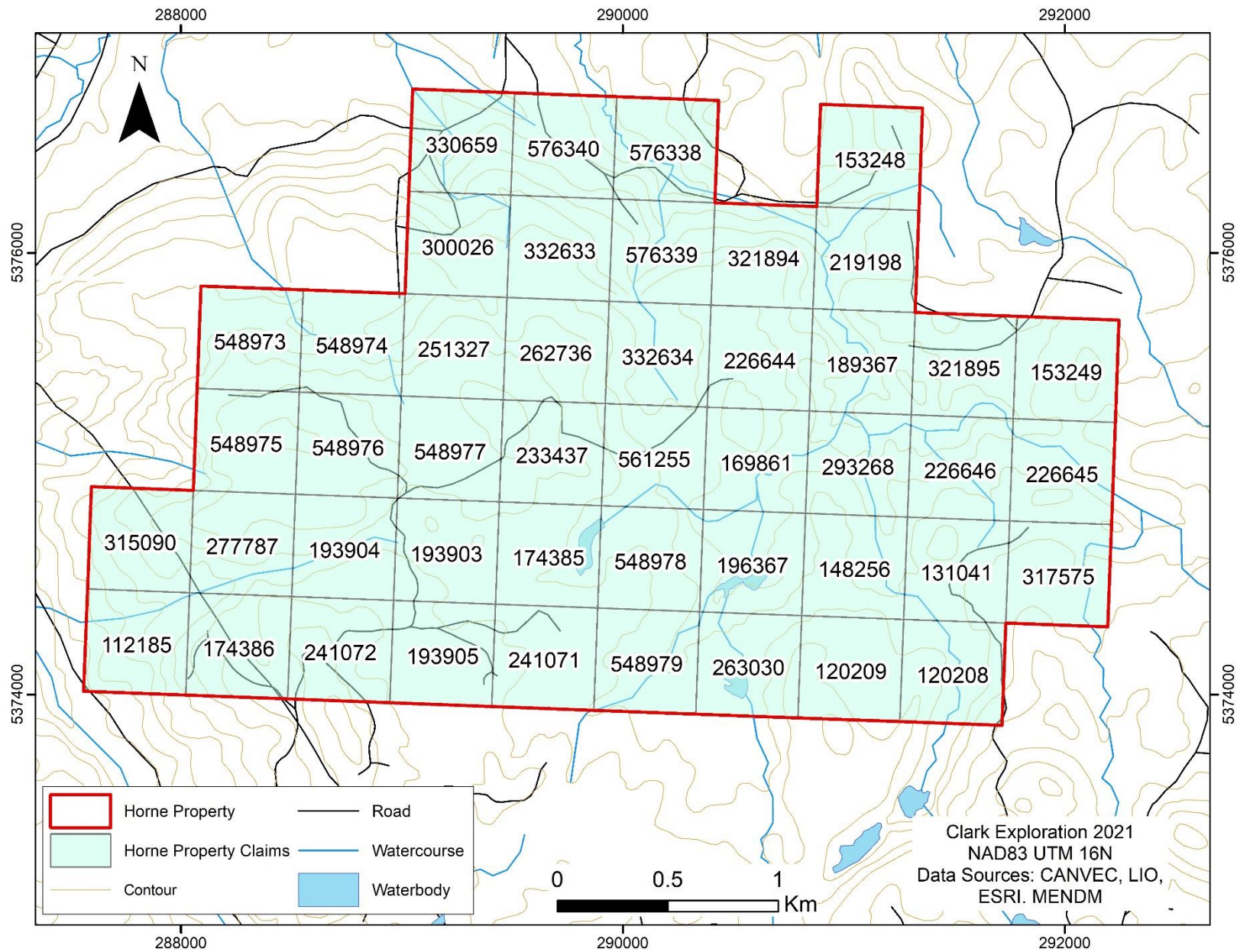
Greenwater assemblage of volcanic and associated metasediments are of interest. The rock types found within the property boundary include mafic, ultramafic, intermediate metavolcanic, coarse clastic metasedimentary rocks, dacitic and andesitic flows, tuffs and breccias, felsic to intermediate metavolcanics, alkaline metavolcanic rocks, and metasedimentary rocks comprised of conglomerate, arkose, arenite, wacke, sandstone, siltstone, and graphitic argillite. There is a fault running northwest – southeast through the property and there are two iron occurrences within the property boundary. Portions of the property are also underlain by mafic intrusive rocks (Bajc, 1999).

Figure 1: Horne Property Location Map



5042078 Ontario Inc.  
**Figure 2: Horne Property Claim Map**

Horne Property



### **3.0 LOCATION AND ACCESS**

The Horne Project is located approximately 45 km west of Thunder Bay Ontario, within NTS map sheets 52A/05 and 52A/12 in the Horne Township within the Thunder Bay South Mining Division of Ontario. The property is located approximately 45 kilometres west of the city of Thunder Bay, Ontario (Figure 1). The city of Thunder Bay has a population of 110,000 and provides support services, equipment, and skilled labour for both the minerals exploration and mining industry. Rail, national highway, port and international airport services are also available out of Thunder Bay.

From Thunder Bay, the property can be reached by travelling west on Highway 11/17 and then west on Highway 590 which is just past the town of Kakabeka Falls, Ontario. Follow Highway 590 for approximately 12 kilometres to the Adrian Lake Road. The property can be directly accessed via Adrian Lake Road. Alternatively, the property can be accessed via Boreal Timber Road off Highway 590 past the turn off for Adrian Lake Road. Road access throughout the property is good.



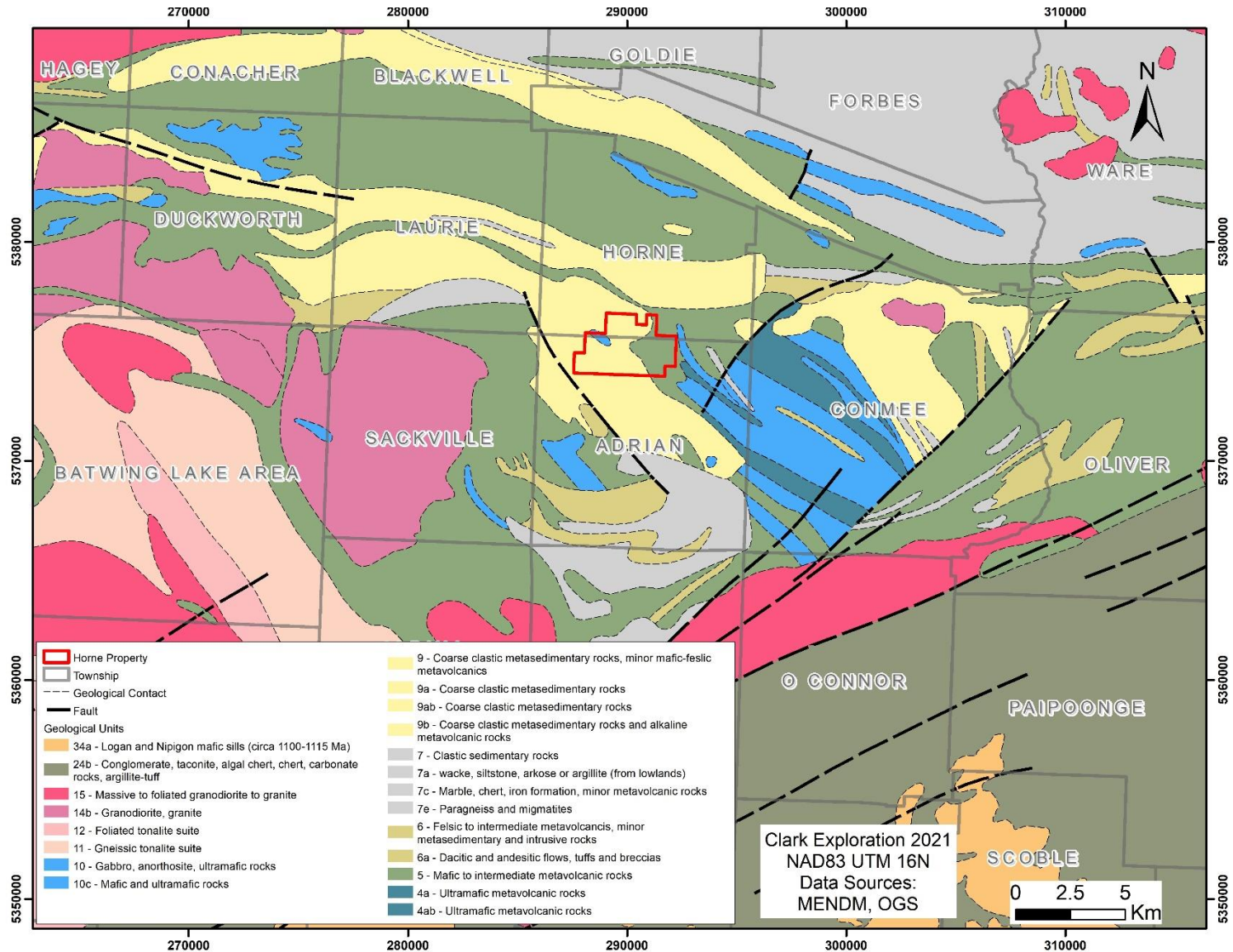
**Table 1: Horne Property Claims**

Claim Number	Claim Type	Anniversary	Holder	Township	Work required
548978	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
548979	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
548973	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
548974	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
548975	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
548976	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
548977	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
112185	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
120208	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
120209	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
131041	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
148256	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
153248	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	HORNE	\$200
153249	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
169861	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
174385	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
174386	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
576338	Single Cell Mining Claim	2022-02-11	(100) 5042078 Ontario Inc.	HORNE	\$400
576339	Single Cell Mining Claim	2022-02-11	(100) 5042078 Ontario Inc.	HORNE	\$400
189367	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
193903	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
193904	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
193905	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
196367	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
561255	Single Cell Mining Claim	2022-10-06	(100) 5042078 Ontario Inc.	ADRIAN	\$400
219198	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	HORNE	\$400
576340	Single Cell Mining Claim	2022-02-11	(100) 5042078 Ontario Inc.	HORNE	\$400
226644	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
226645	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
226646	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
233437	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	ADRIAN	\$400
241071	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
241072	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
251327	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
262736	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
263030	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
277787	Boundary Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$200
293268	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
300026	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	HORNE	\$400
317575	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
315090	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN	\$400
321894	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	HORNE	\$400
321895	Single Cell Mining Claim	2022-04-27	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
332633	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	HORNE	\$400
332634	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	ADRIAN, HORNE	\$400
330659	Single Cell Mining Claim	2022-02-08	(100) 5042078 Ontario Inc.	HORNE	\$400

#### 4.0 REGIONAL GEOLOGY

The Horne Property area is underlain by Neoproterozoic rocks of the Superior Province and by Paleoproterozoic rocks of the Southern Province which form the Canadian Shield (Berger, 1993 and Berger and Rogers, 1994). The geology of the Horne Property area is shown in Figure 3. The property is situated within the Shebandowan Greenstone Belt, a component of the Wawa Subprovince of the Superior Province (Bajc, 1999). The Shebandowan Greenstone Belt is fault-bounded to the north by metasedimentary and felsic intrusive rocks of the Quetico Subprovince and is overlain to the south by Paleoproterozoic metasedimentary rocks of the Animikie Group also known as the Gunflint and Rove Formations (Bajc, 1999). The Neoproterozoic rocks of the Shebandowan Greenstone Belt are composed mainly of ultramafic, mafic, intermediate and felsic metavolcanic rocks. Related intrusive rocks include: periodotite, gabbro, feldspar, quartz feldspar porphyries, and clastic and chemical metasedimentary rocks (Berger, 1993 and Berger and Rogers, 1994). The supracrustal rocks are divided into two assemblages based on morphology, composition, structure and metamorphism which correlate with the Greenwater and Shebandowan assemblages described in the work of Carter (1985 and 1986) and Williams et al (1991) (Berger, 1993 and Berger and Rogers, 1994). The entirety of Horne Township is underlain by Archean rocks which are composed primarily of a metavolcanic sequence or a Keewatin-type sequence (Carter, 1990)

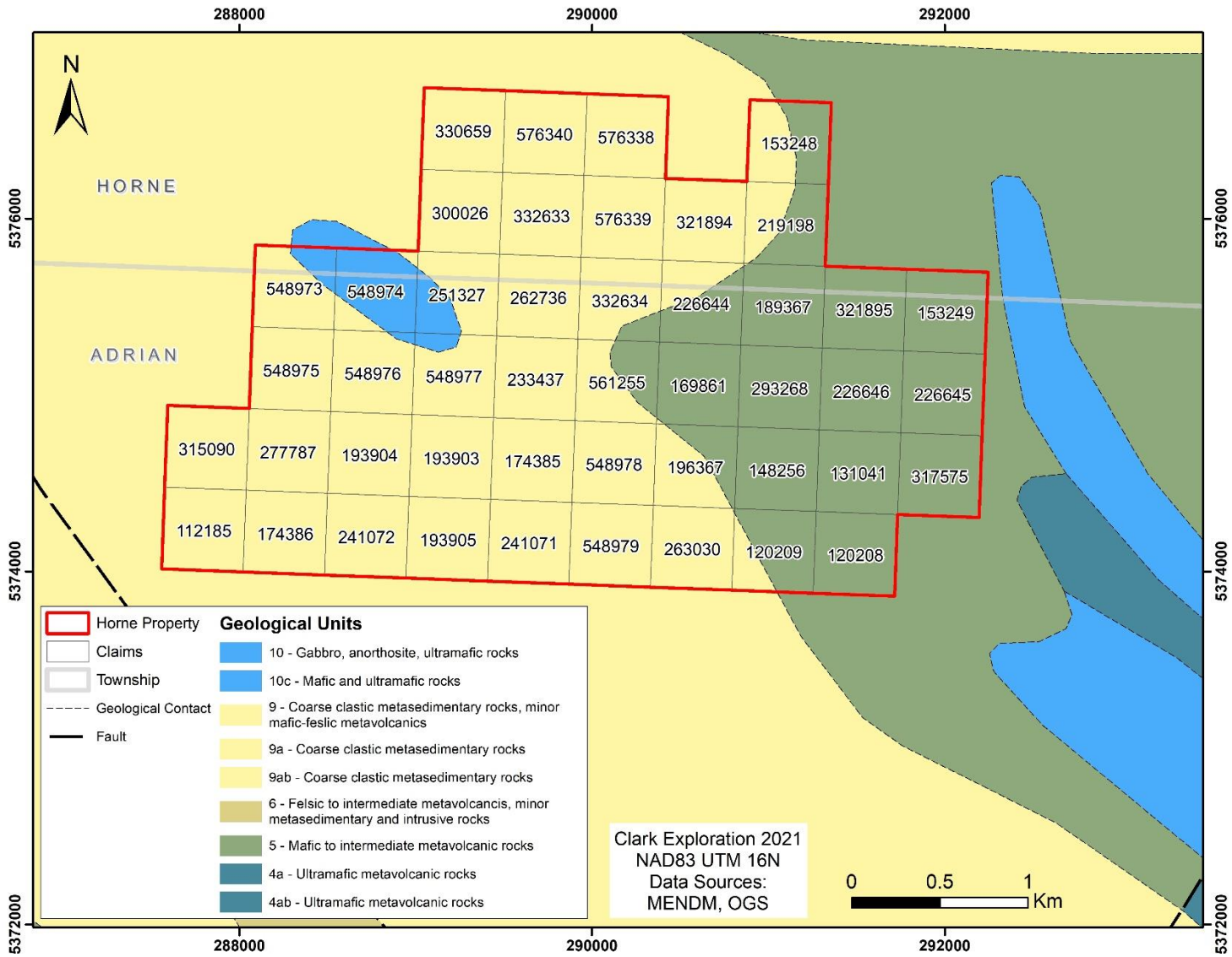
Figure 3: Horne Property Regional Geology



## 5.0 PROPERTY GEOLOGY

The Horne property is located within the Superior Province of the Canadian Shield and sits with the eastern portion of the Shebandowan Greenstone Belt (Berger, 1993 and Berger and Rogers, 1994). The property also covers portions of the Shebandowan and Greenwater assemblages which are primarily supracrustal rocks (Berger, 1993 and Berger and Rogers, 1994). The area of interest in this program lies within the Greenwater assemblage of volcanic and associated metasediments. The rock types found within the property boundary include mafic, ultramafic, intermediate metavolcanic, coarse clastic metasedimentary rocks, dacitic and andesitic flows, tuffs and breccias, felsic to intermediate metavolcanics, alkaline metavolcanic rocks, and metasedimentary rocks comprised of conglomerate, arkose, arenite, wacke, sandstone, siltstone, and graphitic argillite. There is a fault running northwest – southeast through the property and there are two iron occurrences within the property boundary. Portions of the property are also underlain by mafic intrusive rocks (Bajc, 1999). The property geology according to OGS records is shown in Figure 4.

Figure 4: Horne Property Geology



## 6.0 EXPLORATION HISTORY

This review of Exploration History was performed using a GIS based assessment work boundary layer and intersecting it with the current property boundary of the Horne project. It should be noted that this is not a complete review and a physical search of the assessment files should be performed to ensure it is complete (regarding filed assessment work). A summary of the exploration history is outlined in Table 2.

**Table 2: History of Work Done on the Horne Property**

AFRI FID	YEAR	PERFORM FOR	Work Performed	GO LINK
52A05NW0008	1967	Noranda Inc	Diamond Drilling Program consisting of 2 holes (121m)	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0008.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0008.html</a>
52A05NW0011	1967	Noranda Exploration Co	Electromagnetic and Magnetometer survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0011.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0011.html</a>
52A05NW0009	1967	Noranda Exploration Co	Diamond Drilling Program consisting of 1 hole totaling (107m)	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0009.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0009.html</a>
52A12SW0062	1971	Noranda Exploration Co	Electromagnetic and Magnetometer survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0062.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0062.html</a>
52A05NW0004	1977	Noranda Exploration Co	Electromagnetic and Magnetometer survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0004.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0004.html</a>
52A05NW0003	1978	Noranda Exploration Co	379 Soil Samples	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0003.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0003.html</a>
52A12SW0056	1988	Royex Gold Mining Corp	Linecutting (61 Miles), geological mapping, 592 soil samples, Ground Magnetometer and VLF-EM	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0056.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0056.html</a>
52A12SE0060	1988	Jet Mining Expl Inc	Airborne Magnetic and VLF-EM Survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SE0060.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SE0060.html</a>
52F04NE9650	1990	Mingold Resources Inc	Bulk Till sampling program	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52F04NE9650.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52F04NE9650.html</a>
52A05NW0030	1992	A Murdy, D Laderoute	Prospecting, Lithogeochemical sampling (29 soil samples), Ground magnetometer and Max-Min surveys	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0030.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW0030.html</a>
52A05NW8102	1992	A Murdy, D Laderoute	Ground magnetic and horizontal loop EM survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW8102.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A05NW8102.html</a>
52A12SW0006	1992	A Murdy, D Laderoute	Same report as 52A05NW0030	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0006.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0006.html</a>
52A12SW0044	1995	E Kukkee, Russell Kwiatkowski	17 Assays	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0044.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0044.html</a>
52A12SW0043	1997	Starcore Resc Ltd	VLF-EM survey 20.5 line kilometers	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0043.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW0043.html</a>
52A12SW2020	2000	Cassidy Gold Resc Inc	Prospecting	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW2020.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/52A12SW2020.html</a>
20000000033	2006	Kenneth Robert Kukkee	94 samples taken, trenching and stripping	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000000033.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000000033.html</a>
20000003029	2007	Sabina Silver Corp	Trenching and sampling completed in Adrian township	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000003029.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000003029.html</a>

AFRI FID	YEAR	PERFORM FOR	Work Performed	GO LINK
20000002921	2007	Sabina Silver Corp	Airborne VTEM survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000002921.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000002921.html</a>
20000006712	2010	Benton Resources Corp, Melvin Angus Stewart, Michael Robert Stares	4 Diamond Drill Holes totaling 812 meters. Assays up to 0.22% Ni over 30.5m including 0.4% over 6.0m.	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000006712.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000006712.html</a>
20000007399	2012	Greencastle Resources Ltd	4 Diamond Drill holes totaling 916 meters. Assays up to 3578ppm Zn and 613ppm Cu	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000007399.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000007399.html</a>
20000004010	2009	Kenneth Robert Kukkee	Prospecting, linecutting, and radiometric survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000004010.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000004010.html</a>
20000005522	2009	Benton Resources Corp, Melvin Angus Stewart, Michael Robert Stares	Trenching and ground geophysics	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000005522.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000005522.html</a>
20000007993	2013	Greencastle	Trenching and ground geophysics	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000007993.html">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/records/20000007993.html</a>
20000017981	2019	1401358 Ontario Inc.	Prospecting and VLF geophysical survey	<a href="http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/20000017981/20000017981_01.pdf">http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/20000017981/20000017981_01.pdf</a>



## 7.0 2021 PROSPECTING AND SAMPLING PROGRAM

Clark Exploration and Consulting personnel carried out a prospecting and sampling program for 5042078 Ontario Inc. on the Horne Property located in Adrian and Horne Township in the Thunder Bay Mining Division. The program consisted of 6 field days spent on the property and was carried out on the days of September 29<sup>th</sup>-30<sup>th</sup>, October 4<sup>th</sup>-6<sup>th</sup> and 14<sup>th</sup>, 2021. In total 24 grab samples were collected from the property and sent for gold analysis by fire assay and four acid digestion multi element analysis. The goal of the sample program was to locate historic unreported grab samples. Locations were estimated from historic maps that were generated. Samples 181353-181356 (4) samples were collected from the suspected outcrop where the historic grab sample was taken. Prospecting tracks and sample locations are shown in Figure 5 and 6, respectively.

Sample descriptions and assay results are presented in Appendix I. A maximum of 40 ppb gold was returned from sample B181362 and a maximum of 217 ppm Cu was returned from sample B181372. Sample B181368 returned 1730 ppm Ni from an ultramafic outcrop. Concentrations of Au, Cu, Ni and As returned from grab samples are shown in Figures 7-10.

Figure 5: Prospecting Tracks

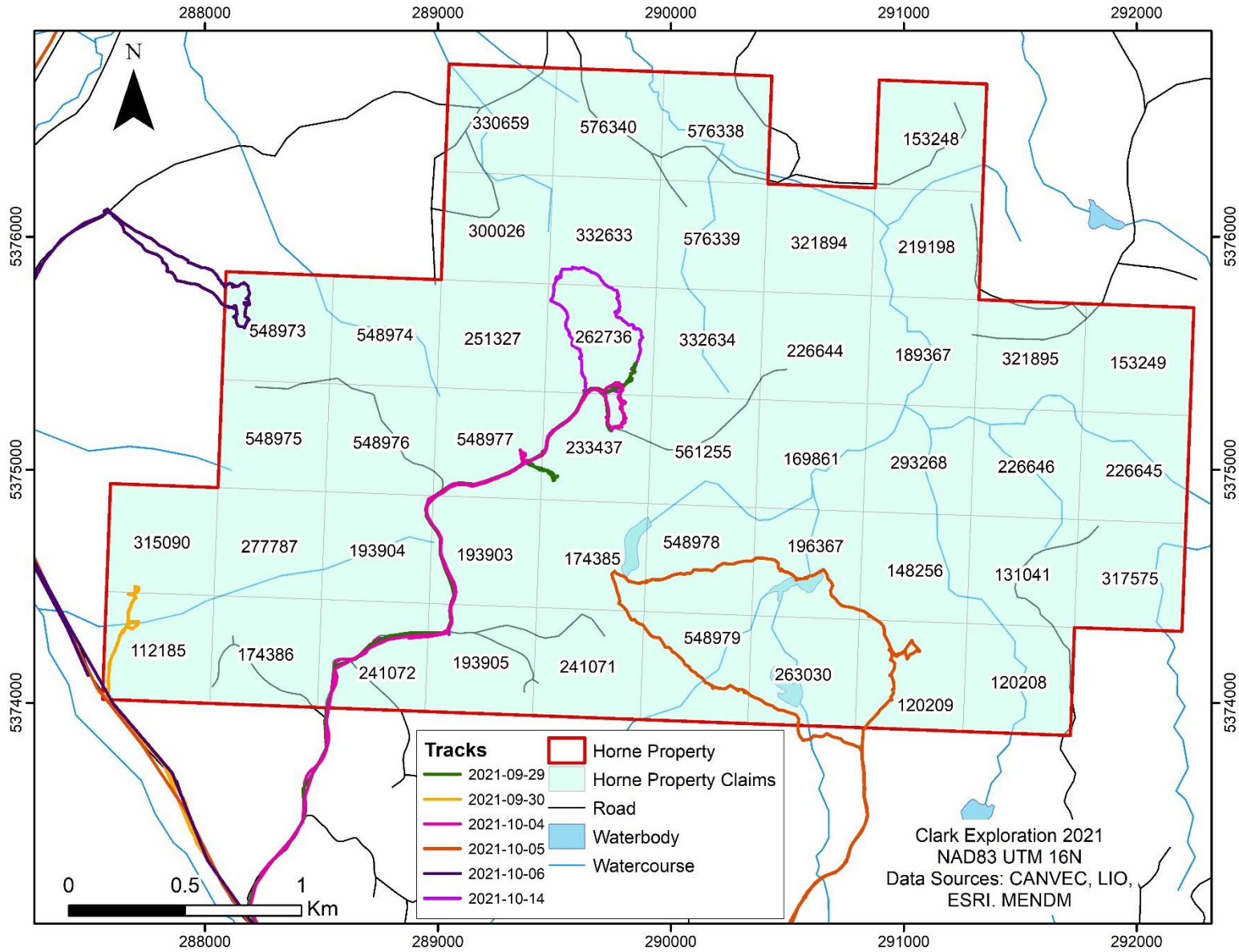


Figure 6: Grab sample Locations

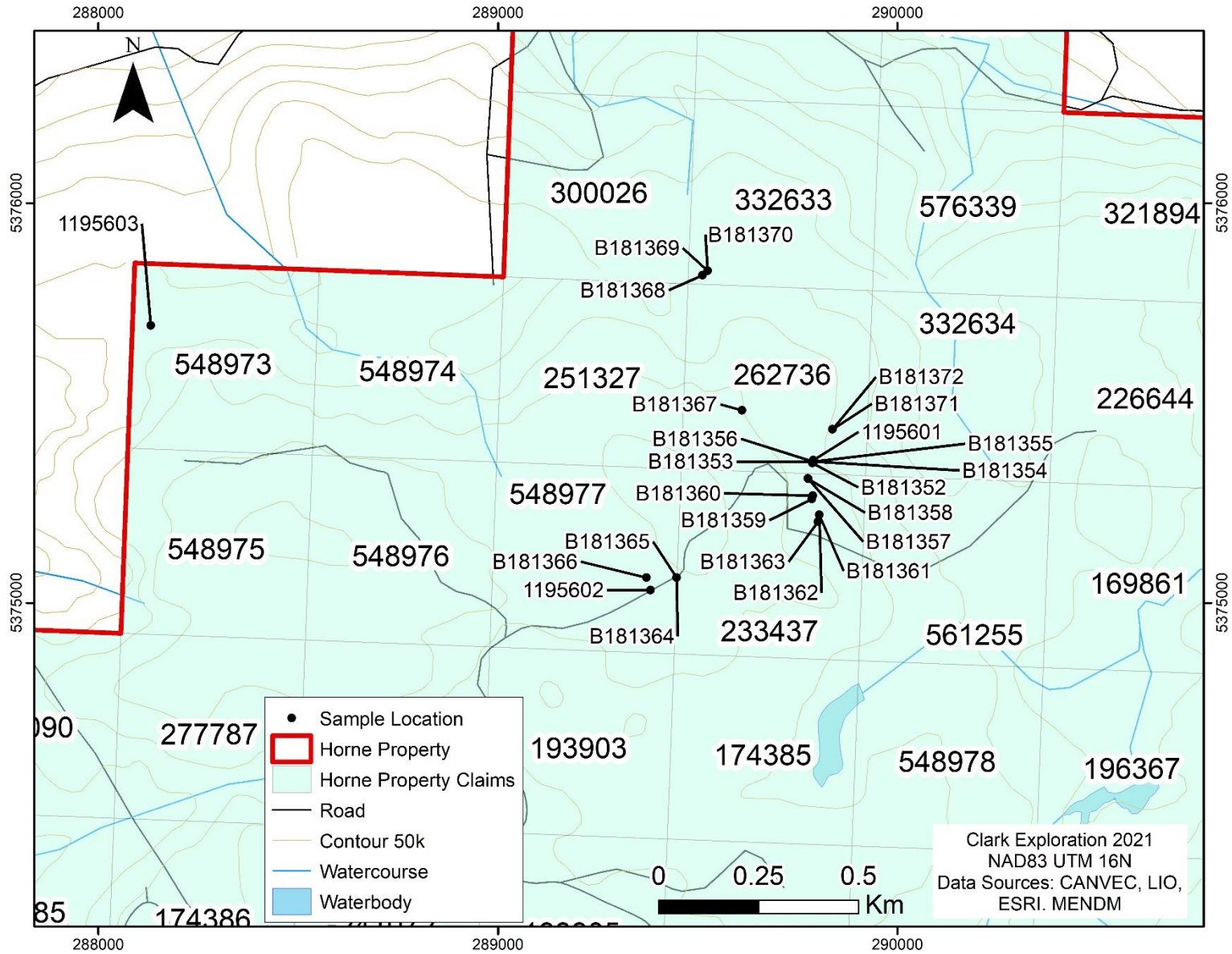


Figure 7: Grab sample Au Concentrations

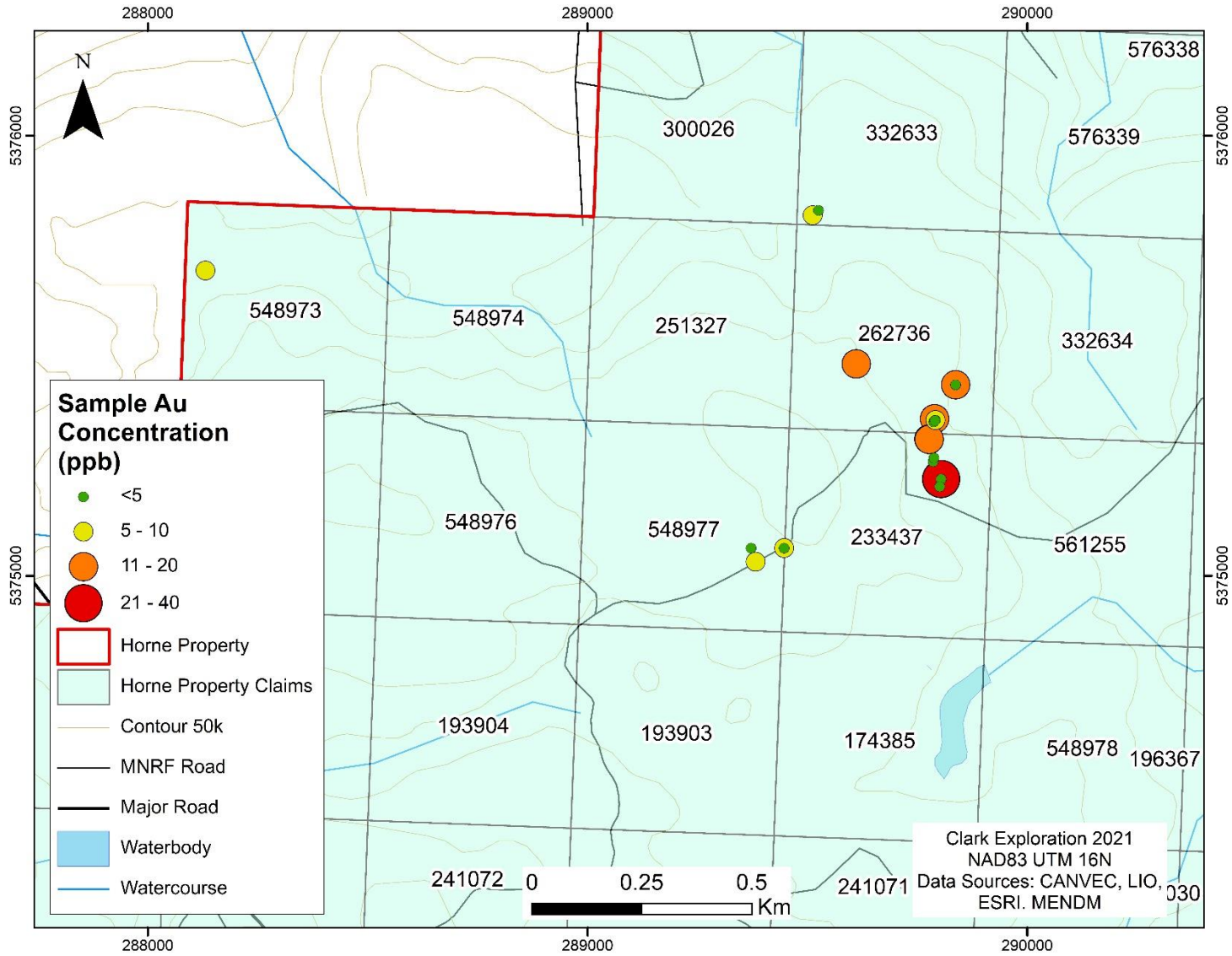


Figure 8: Grab sample As Concentration

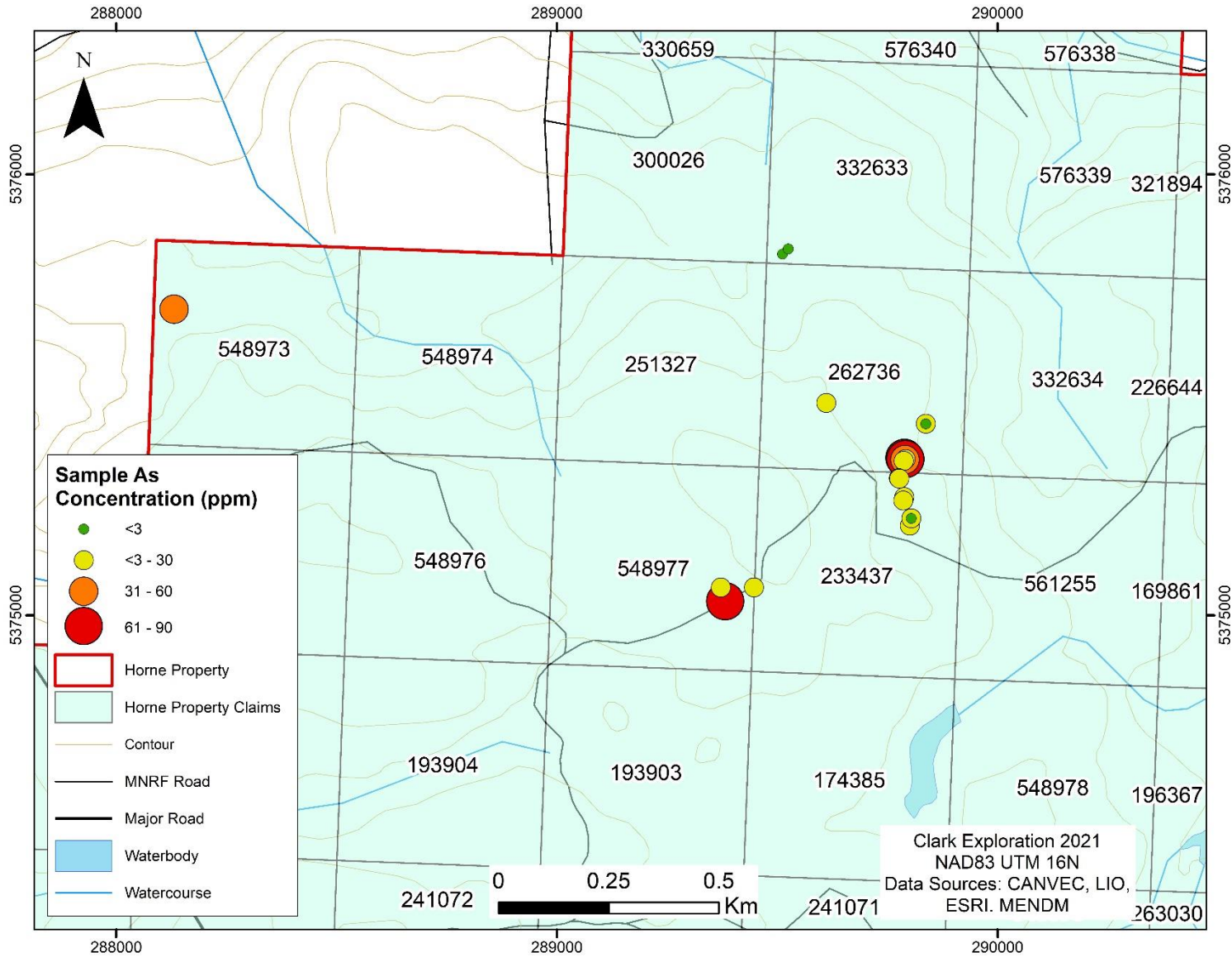


Figure 9: Grab sample Cu Concentration

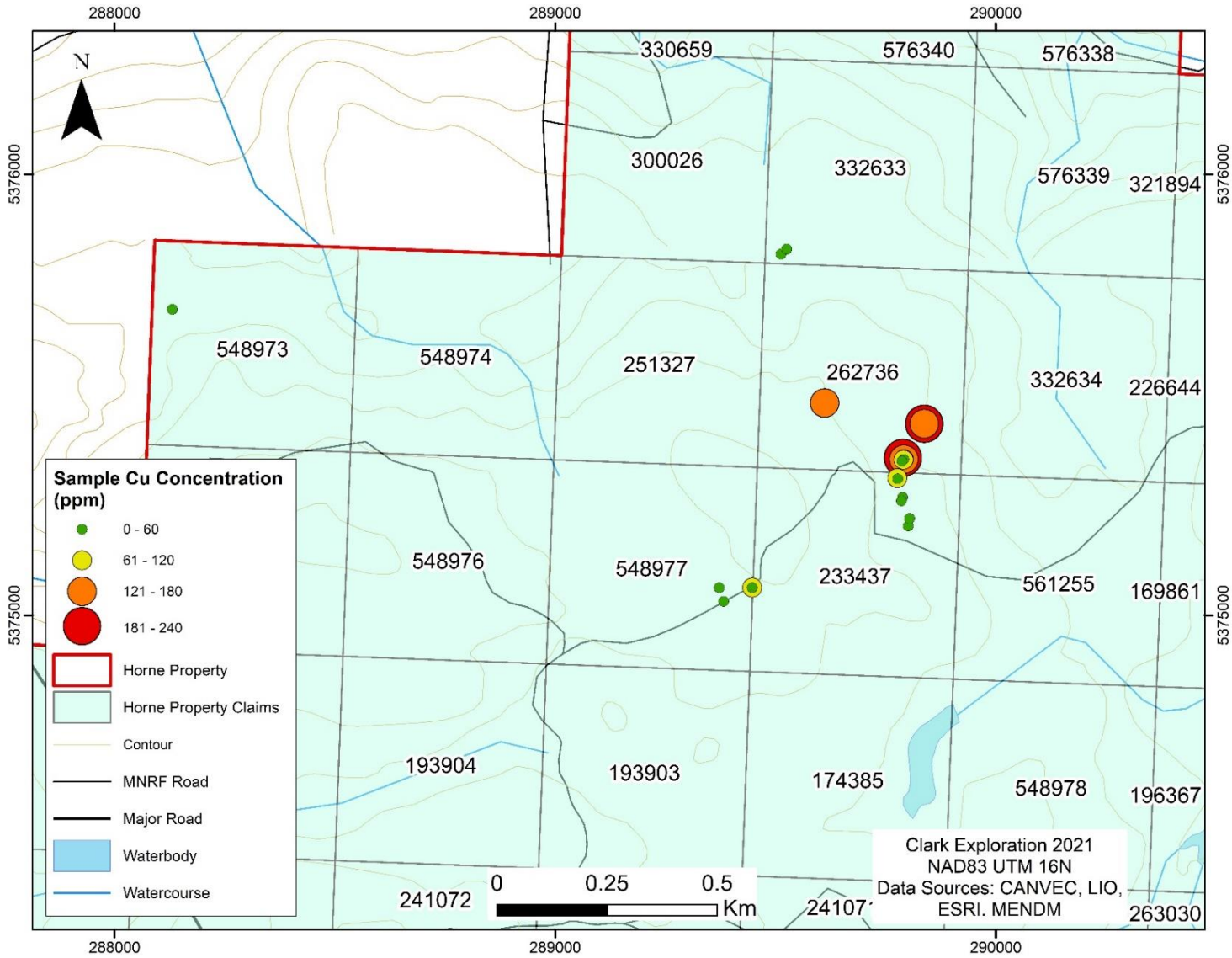
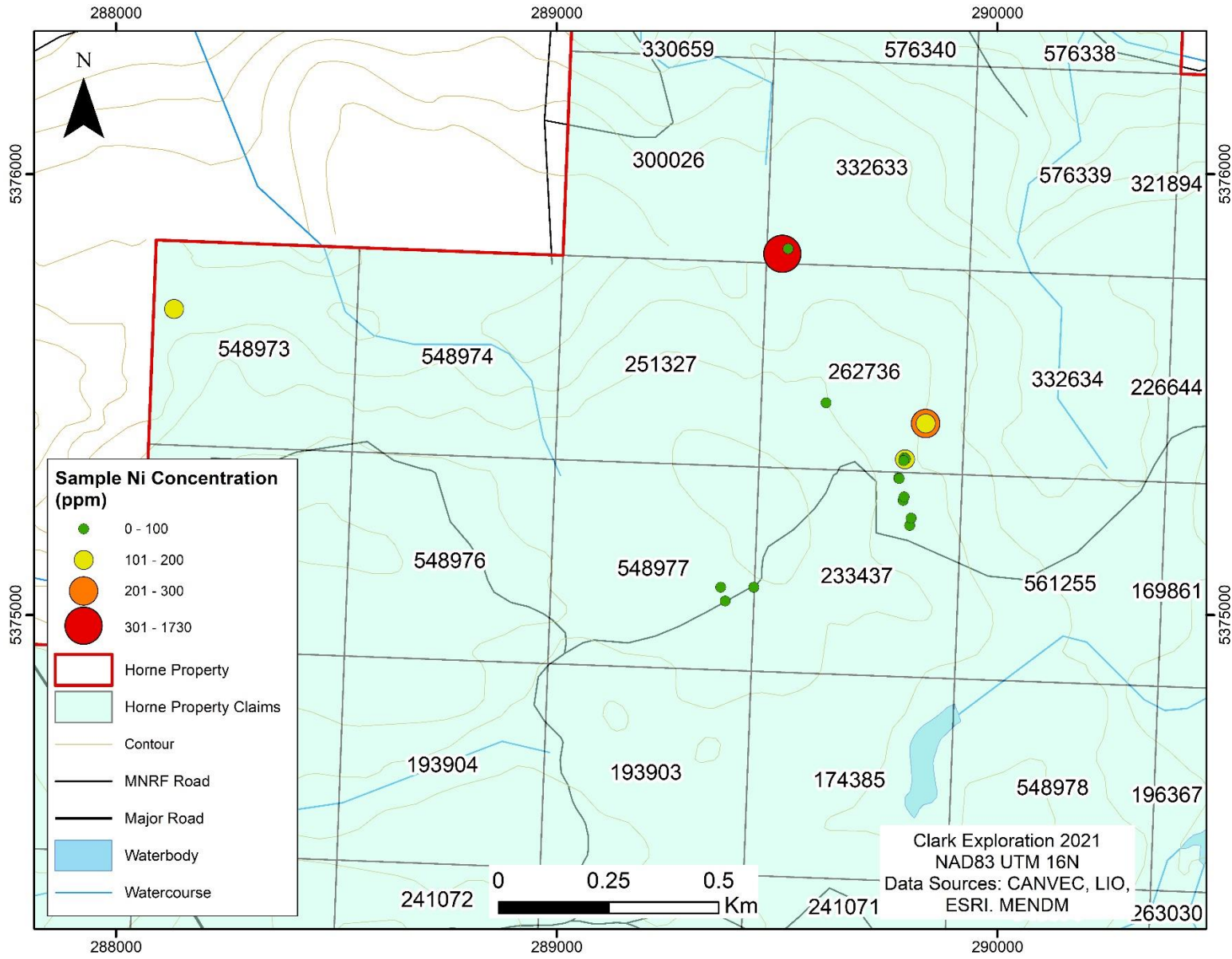


Figure 10: Grab sample Ni Concentration



## 8.0 SAMPLE PREPARATION, ANALYSIS AND SECURITY

Grab samples were collected and placed in sample bags with appropriate sample tags and sealed with tape or zip ties. All samples were delivered directly to the Activation Laboratories in Thunder Bay, ON by Clark Exploration staff.

Analysis of the grab samples was conducted by Activation Laboratories (“Actlabs”) in Thunder Bay, Ontario. Actlabs is independent from 5042078 Ontario Inc. The samples were transported to Thunder Bay and dropped off at the lab where they were analyzed using a 30 g sample for fire assay fusion with AA (Atomic Absorption) finish (1A2-50). Additionally, 0.25 g portion of each sample was used for multi-element 4 acid near total digestion with an ICP finish (1F2).

Actlabs’ Quality System is accredited to international quality standards through the following organizations:

- Standards Council of Canada (SCC)
- Canadian Association for Laboratory Accreditation (CALA)

Actlabs is accredited and/or certified to the following standards:

- ISO/IEC 17025:2017
- ISO 9001:2015

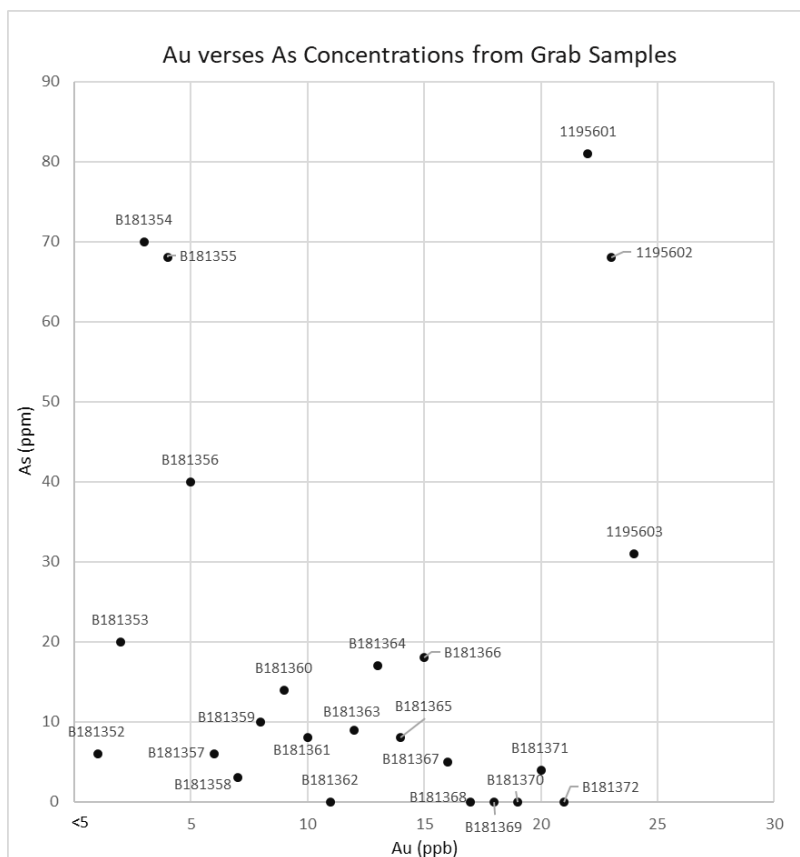


## 9.0 INTREPRETATIONS AND CONCLUSIONS

A total of 24 grab samples were collected and sent for assay at Activation Laboratories (Actlabs) in Thunder Bay, Ontario. A maximum of 40 ppb gold was returned from sample B181362 and a maximum of 217 ppm Cu was returned from sample B181372. Sample B181368 returned 1730 ppm Ni from an ultramafic outcrop. The goal of the sample program was to locate historic unreported grab samples. Locations were estimated from historic maps that were generated. Samples 181353-181356 (4) samples were collected from the suspected outcrop where the historic grab sample was taken. Thus, the area still warrants further follow up work to find the historic showing.

The scatter plot of Au verses As concentrations of grab samples presented in Figure 11 suggests that 2 samples (Sample 1195601 and 1195602) are slightly elevated in both As and Au concentrations. The lithology of the two samples is not consistent but both samples are reported to contain pyrite mineralization. Sample 1195601 is described as mafic volcanic with trace pyrite and Sample 1195602 is described as interbedded siltstone with 5% pyrite.

**Figure 11: Scatter plot of Au verses As Concentrations of Grab Samples**



## **10.0 RECOMMENDATIONS**

It is recommended that the area of samples 181353-181356 be stripped/washed to uncover further outcrop to the east to obtain further structural data and expose sheared areas. This area is the approximate contact between metasediments and mafic metavolcanics. Further mapping east of the sampling area is also warranted.

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## 12.0 CERTIFICATE AND QUALIFICATIONS

Brent Clark  
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Thunder Bay, Ontario  
Canada, P7B 5Z4  
Telephone: 807-622-3284, Fax: 807-622-4156  
Email: brent@clarkexploration.com

### CERTIFICATE OF QUALIFIED PERSON

I, Brent Clark, P. Geo. (#3188), do hereby certify that:

1. I am a consulting geologist with an office at 941 Cobalt Cres., Thunder Bay, Ontario.
2. I graduated with the degree of Honours Bachelor of Earth Science (Geology) from Carleton University, Ottawa, Ontario in 2014. I have worked on gold projects in Northwestern Ontario, and Australia.
3. "Assessment Report" refers to the report titled "Assessment Report on the Horne Property, Thunder Bay South Mining Division, Northwestern Ontario", dated December 10, 2021.
4. I am a registered Professional Geoscientist with the Association of Professional Geoscientists of Ontario (#3188).
5. I have worked as a Geologist since my graduation from university.
6. I am the author of this report and responsible for sections 9 and 10 of the Assessment Report.
7. As of the date of this certificate, and to the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to be disclosed to make the Assessment Report not misleading.

Dated this 10<sup>th</sup> day of December

"Brent Clark"

---

Brent Clark, P. Geo.

Jolee Stewart  
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Thunder Bay, Ontario  
Canada, P7B 5Z4  
Telephone: 807-629-9761, Fax: 807-622-4156  
Email: [jolee@clarkexploration.com](mailto:jolee@clarkexploration.com)

## CERTIFICATE OF QUALIFIED PERSON

I, Jolee Stewart G.I.T. (10879) hereby certify that:

1. I am a consulting geologist-in-training with an office at 941 Cobalt Crescent, Thunder Bay, Ontario.
2. I graduated with the degree of Honours Specialization in Geology - For Professional Registration from Western University, London, Ontario in 2019. I have worked on gold projects in Northwestern Ontario.
3. "Assessment Report" refers to the report titled "titled "Assessment Report on the Horne Property, Thunder Bay South Mining Division, Northwestern Ontario", dated December 10, 2021.
4. I am a registered as a Geologist-In-Training (G.I.T) with the Association of Professional Geoscientists of Ontario (108790).
5. I am the author of this report and responsible for all sections of the Assessment Report.
6. As of the date of this certificate, and to the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to be disclosed to make the Assessment Report not misleading.

Dated this 10<sup>th</sup> day of December 2021

"Jolee Stewart"

---

Jolee Stewart

**APPENDIX**

Appendix I – Sample Description and Assay Results

Appendix II – Assay Certificates



# **APPENDX I**

Sample ID	Northing (m)	Easting (m)	Date Collected	Rock Description	Au (ppb)	Ag (ppm)	As (ppm)	Cr (ppm)	Cu (ppm)	Ni (ppm)
B181352	5375350	289787	2021-10-04	Far left side of outcrop. ~20cm quartz/carb vein within sheared mafic volcanics. Milky white massive quartz vein with trace chlorite/biotite, Fe-Ox along fractures. Sample 70% Quartz vein, 30% wall-rock	< 5	< 0.3	6	48	6	25
B181353	5375354	289791	2021-10-04	Wallrock; medium grey-green, fine grained, sheared with chlorite slickenslides. Trace euhedral pyrite ~1mm. (80% wallrock, 20% vein material)	< 5	< 0.3	20	62	21	37
B181354	5375354	289791	2021-10-04	Location of histroci sample 15N9078 (possibly 5g/t sample?) Fe-Ox red-brown weathered surface, medium-dark grey-green, fg, massive, with quartz-carbonate veins/veinlets up to 4mm (several orientations),3% euhedral pyrite, disseminated/patches.	7	< 0.3	70	94	102	61
B181355	5375354	289791	2021-10-04	Location of histroci sample 15N9078 (possibly 5g/t sample?) Fe-Ox red-brown weathered surface, medium-dark grey-green, fg, massive, with quartz-carbonate veins/veinlets up to 4mm (several orientations),3% euhedral pyrite, disseminated/patches.	5	0.4	68	128	143	74
B181356	5375353	289790	2021-10-04	Red-brown weathered surface. Grey-green, fine grained, massive, mafic volcanic, sheared with quartz/carbonatte veins up to 5mm (multiple orientations). Trace disseminated pyrite.	< 5	< 0.3	40	631	67	123
B181357	5375311	289776	2021-10-04	Along old road. Weatherd; red-brown. Fresh; dark grey, fine grained, massive, metasediment. Stringers/disseminated pyrite/pyrrhotite 5%	12	0.7	6	30	107	33
B181358	5375310	289777	2021-10-04	Dark grey, sub-rounded to sub-angular quartz grains 1-2mm, aphanitic matrix, massive, carbonate alteration. 5% pyrite as very fine grained patches/blebs up to 1cm, generally along preferential orientation (bedding?)	12	0.5	3	27	43	29
B181359	5375260	289786	2021-10-04	Fine grained, dark grey, meta-sediment. Sub-angluar/sub-rounded qtz grains <2mm. Trace fine grained disseminated pyrite	< 5	0.5	10	47	26	31
B181360	5375268	289788	2021-10-04	Very fine grained, dark grey, euhederal pyrite 2% up to 1mm (orogenic?). Metasediment	< 5	0.6	14	23	29	15

Sample ID	Northing (m)	Easting (m)	Date Collected	Rock Description	Au (ppb)	Ag (ppm)	As (ppm)	Cr (ppm)	Cu (ppm)	Ni (ppm)
B181361	5375220	289804	2021-10-04	Fine grained, dark grey, multiple quartz veins 1-4mm with similar orientation, minor cross-cutting veinlets. 2% disseminated fine grained pyrite.	< 5	< 0.3	8	55	21	8
B181362	5375220	289804	2021-10-04	20cm wide folded quartz vein, milky white with minor Fe-Ox staining and chlorite, silicified wall rock.	40	< 0.3	< 3	51	15	16
B181363	5375203	289801	2021-10-04	Rusty red-brown weather surface, fine grained, grey, massive, metasediment?	< 5	0.6	9	37	23	21
B181364	5375063	289447	2021-10-04	Fine grained, black-dark grey, semi-massive pyrite seam in fine grained mudstone. Contact with medium grained metasediment.	7	0.8	17	24	76	29
B181365	5375063	289447	2021-10-04	Fine grained, grey, massive metasediment with trace disseminated pyrite.	< 5	0.5	8	23	20	17
B181366	5375063	289372	2021-10-04	~1m outcrop, interbedded very fine grained black mudstone, with medium-fine grained medium grey siltstone. Beds are locally 'whisps' to laminations up to 1cm. 2% anhedral masses of pyrite up to 1mm.	< 5	0.3	18	39	18	19
B181367	5375482	289611	2021-10-14	Weathered; buff-tan, fresh; light-medium grey-green, meta-sediment, quartz carbonate vein ~2cm, trace disseminated pyrite	17	< 0.3	5	79	128	56
B181368	5375820	289512	2021-10-14	~3mx2m outcrop, magnetic, medium grained, olivine, pyroxene, pyroxenite(?). Locally chlorite rich shear zones (weathered), ~3cm wide, trace disseminated pyrite, carbonate alteration, chlorite slickensides	5	< 0.3	< 3	2180	22	1730
B181369	5375831	289525	2021-10-14	strong pervasive silicification, buff-tan weathered surface, fresh; light grey to cream, remnant bt(?), folded quartz vein with Fe-carbonate. Fold (282/60). Quartz vein / wallrock	< 5	< 0.3	< 3	47	4	13
B181370	5375831	289525	2021-10-14	Silicified wallrock	< 5	< 0.3	< 3	45	7	15
B181371	5375434	289837	2021-10-14	fine grained, mafic volcanic, semi-massive pyrite/chalcopyrite, shear plane with slickensides	< 5	< 0.3	4	172	127	121
B181372	5375434	289837	2021-10-14	black, fine grained, chert, 5% pyrite stringers and blebs	18	0.4	< 3	139	217	248
1195601	5375357	289789	2021-09-29	quartz/carbonate veins, 5% pyrite, mafic volcanic	14	< 0.3	81	23	192	47
1195602	5375032	289382	2021-09-29	interbedded siltstone, rusty, trace pyrite	8	0.4	68	488	56	97
1195603	5375694	288131	2021-10-06	trace pyrite, calcite, volcanics	6	0.5	31	42	28	142

## **APPENDX II**



Report No.: A21-19634
Report Date: 25-Nov-21
Date Submitted: 18-Oct-21
Your Reference: HORNE

Ken Kukkee
194 Raynard Road
Thunder Bay Ontario P7G 1K7
Canada

ATTN: Ken Kukkee

CERTIFICATE OF ANALYSIS

24 Rock samples were submitted for analysis.

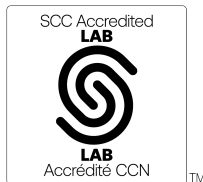
Table with 3 columns: Analytical package(s) requested, Testing Date, and details. Rows include 1A2-50-Tbay, 1C-OES-Tbay, and 1F2-Tbay.

REPORT A21-19634

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 673

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

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

## Results

## Activation Laboratories Ltd.

## Report: A21-19634

Analyte Symbol	Au	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
B181352	< 5				< 0.3	1.84	6	36	< 1	< 2	10.7	< 0.3	13	48	6	2.68	6	0.11	1.17	15	1120	< 1	0.27
B181353	< 5				< 0.3	3.52	20	87	< 1	< 2	12.6	< 0.3	21	62	21	3.92	9	0.26	1.79	21	1430	< 1	0.89
B181354	7				< 0.3	6.33	70	101	< 1	< 2	7.45	< 0.3	42	94	102	7.06	13	0.23	3.07	37	1970	< 1	2.09
B181355	5				0.4	7.61	68	64	< 1	< 2	3.93	0.3	54	128	143	8.96	16	0.14	4.04	42	1720	< 1	2.17
B181356	< 5				< 0.3	5.87	40	24	< 1	< 2	3.74	0.4	53	631	67	9.14	13	0.08	5.37	48	2080	< 1	0.32
B181357	12				0.7	5.91	6	117	1	< 2	1.18	0.3	23	30	107	10.3	14	0.63	1.21	24	1100	3	1.81
B181358	12				0.5	6.02	3	246	1	< 2	1.40	0.3	18	27	43	10.6	16	0.62	1.32	32	1440	2	1.31
B181359	< 5				0.5	8.21	10	426	2	< 2	0.24	< 0.3	10	47	26	6.68	21	2.91	1.12	21	324	< 1	1.89
B181360	< 5				0.6	7.18	14	519	1	< 2	0.11	< 0.3	7	23	29	4.09	20	2.75	0.84	16	53	2	2.20
B181361	< 5				< 0.3	0.49	8	15	< 1	< 2	0.20	< 0.3	3	55	21	3.22	2	0.09	0.13	1	226	3	< 0.01
B181362	40				< 0.3	0.73	< 3	573	8	< 2	0.13	< 0.3	3	51	15	2.65	2	0.22	0.17	4	142	9	0.09
B181363	< 5				0.6	5.58	9	463	1	< 2	0.25	< 0.3	7	37	23	3.70	22	1.17	0.76	16	81	2	4.06
B181364	7				0.8	4.84	17	137	< 1	< 2	0.31	< 0.3	18	24	76	9.07	15	0.77	0.66	17	341	1	1.21
B181365	< 5				0.5	7.71	8	506	< 1	< 2	2.73	< 0.3	8	23	20	3.13	19	1.76	0.41	12	544	2	2.80
B181366	< 5				0.3	8.01	18	696	< 1	< 2	0.97	< 0.3	4	39	18	2.42	22	1.99	0.92	27	202	2	1.87
B181367	17				< 0.3	6.37	5	42	< 1	< 2	7.69	< 0.3	41	79	128	7.04	17	0.06	3.23	11	1300	< 1	1.75
B181368	5	< 2	< 5	< 5	< 0.3	2.12	< 3	16	< 1	< 2	1.86	< 0.3	98	2180	22	7.19	3	0.05	17.4	13	1220	< 1	0.02
B181369	< 5				< 0.3	3.16	< 3	84	< 1	< 2	0.36	< 0.3	2	47	4	0.96	6	0.28	0.25	8	182	1	1.80
B181370	< 5				< 0.3	5.19	< 3	118	< 1	< 2	0.45	< 0.3	4	45	7	1.03	10	0.42	0.32	13	197	< 1	3.02
B181371	< 5				< 0.3	8.00	4	21	< 1	< 2	0.71	0.6	57	172	127	11.3	18	0.08	5.91	93	1770	< 1	0.69
B181372	18				0.4	4.97	< 3	55	< 1	< 2	0.67	1.5	66	139	217	8.79	12	0.19	3.52	59	1270	1	0.11
1195601	14				< 0.3	5.52	81	17	< 1	< 2	9.94	0.4	34	23	192	11.2	15	0.04	3.30	37	2610	< 1	0.74
1195602	8				0.4	6.29	68	122	< 1	< 2	0.21	0.3	39	488	56	11.7	14	0.57	3.68	53	1050	< 1	0.97
1195603	6				0.5	5.94	31	145	< 1	< 2	1.63	< 0.3	41	42	28	3.90	15	1.60	0.31	5	356	< 1	1.32

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
B181352	25	0.007	3	< 5	< 0.01	10	131	7	0.11	< 5	< 10	64	< 5	4	65	13
B181353	37	0.013	4	< 5	0.03	16	156	5	0.20	< 5	< 10	115	< 5	6	67	23
B181354	61	0.021	6	< 5	0.79	30	98	3	0.37	< 5	< 10	212	< 5	11	73	36
B181355	74	0.026	5	< 5	0.45	37	99	< 2	0.48	< 5	< 10	282	< 5	10	108	47
B181356	123	0.020	5	< 5	0.03	45	39	< 2	0.36	< 5	< 10	248	< 5	11	179	39
B181357	33	0.051	20	< 5	4.32	6	148	10	0.23	< 5	< 10	53	7	9	125	97
B181358	29	0.050	21	< 5	2.74	6	95	3	0.23	< 5	< 10	52	< 5	9	112	98
B181359	31	0.061	< 3	< 5	0.04	9	104	< 2	0.32	< 5	< 10	69	< 5	10	93	132
B181360	15	0.054	9	< 5	0.63	7	105	< 2	0.31	< 5	< 10	65	< 5	9	86	168
B181361	8	0.084	4	< 5	0.27	< 4	18	< 2	0.01	< 5	< 10	7	< 5	6	11	6
B181362	16	0.010	5	< 5	0.09	< 4	29	< 2	0.02	< 5	< 10	11	< 5	1	11	12
B181363	21	0.065	6	< 5	0.09	5	146	< 2	0.34	< 5	< 10	69	< 5	5	86	168
B181364	29	0.035	23	< 5	3.73	7	130	< 2	0.21	< 5	< 10	49	< 5	6	148	102
B181365	17	0.042	4	< 5	0.39	7	345	10	0.30	< 5	< 10	53	< 5	8	83	113
B181366	19	0.050	10	< 5	0.21	5	356	4	0.25	< 5	< 10	48	< 5	6	63	111
B181367	56	0.024	5	< 5	0.18	31	131	< 2	0.29	< 5	< 10	170	< 5	12	72	29
B181368	1730	0.008	7	< 5	0.08	14	34	< 2	0.12	< 5	< 10	86	< 5	4	70	13
B181369	13	0.026	< 3	< 5	< 0.01	< 4	60	< 2	0.12	< 5	< 10	26	< 5	4	18	38
B181370	15	0.027	< 3	< 5	< 0.01	5	85	< 2	0.14	< 5	< 10	31	< 5	6	27	36
B181371	121	0.031	5	< 5	0.53	44	40	< 2	0.55	< 5	< 10	309	< 5	18	257	60
B181372	248	0.016	8	< 5	1.60	28	15	< 2	0.32	< 5	< 10	185	6	11	512	42
1195601	47	0.025	8	< 5	1.85	23	88	< 2	0.35	< 5	< 10	170	< 5	17	157	43
1195602	97	0.038	13	< 5	4.11	28	113	3	0.38	< 5	< 10	192	< 5	7	113	60
1195603	142	0.111	7	< 5	2.26	12	122	< 2	0.44	< 5	< 10	98	< 5	13	36	152

Analyte Symbol	Au	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	
Lower Limit	5	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
Oreas 72a (4 Acid) Meas							7						144	192	325	9.96								
Oreas 72a (4 Acid) Cert							14.7						157	228	316	9.63								
Oreas 72a (4 Acid) Meas							9						145	164	320	9.75								
Oreas 72a (4 Acid) Cert							14.7						157	228	316	9.63								
OREAS 98 (4 Acid) Meas					41.8					57			121		> 10000									
OREAS 98 (4 Acid) Cert					45.1					97.2			121		14800 0.0									
OREAS 98 (4 Acid) Meas					43.7					68			125		> 10000									
OREAS 98 (4 Acid) Cert					45.1					97.2			121		14800 0.0									
PK2 Meas		4830	5950	4870																				
PK2 Cert		4785	5918	4749																				
OREAS 904 (4 Acid) Meas					0.7	6.60	98	216	10	3	0.05		96	75	6140	7.01	18	2.31	0.60	17	457	2	0.04	
OREAS 904 (4 Acid) Cert					0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	
SBC-1 Meas							22	772	3	< 2		0.6	23	88	32		27			164		2		
SBC-1 Cert							25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0			163		2		
OREAS 96 (4 Acid) Meas					11.4					30			52		> 10000									
OREAS 96 (4 Acid) Cert					11.5					26.3			49.9		39300									
OREAS 96 (4 Acid) Meas					12.0					24			53		> 10000									
OREAS 96 (4 Acid) Cert					11.5					26.3			49.9		39300									
OREAS 923 (4 Acid) Meas					2.0	7.45	7	449	2	10	0.50	0.5	24	68	4200	6.55	19	2.29	1.75	32	1000	< 1	0.32	
OREAS 923 (4 Acid) Cert					1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3	2.51	1.69	31.4	950	0.930	0.324	
OREAS 621 (4 Acid) Meas					73.4	6.84	66		2	4	2.15	277	31	30	3740	3.96	26	2.38	0.54	15	545	14	1.30	
OREAS 621 (4 Acid) Cert					69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	
OREAS 621 (4 Acid) Meas					72.5	7.01	68		2	5	2.18	283	32	41	3810	4.00	27	1.18	0.55	15	539	14	1.31	
OREAS 621 (4 Acid) Cert					69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6	2.20	0.507	14.2	532	13.6	1.31	
CDN-PGMS-30 Meas		1780	1650	227																				
CDN-PGMS-30 Cert		1897.0 00	1660.0 00	223.000																				
Oreas 237 (Fire Assay) Meas	2230																							
Oreas 237 (Fire Assay) Cert	2210																							
Oreas 237 (Fire Assay) Meas	2210																							
Oreas 237 (Fire Assay) Cert	2210																							
Oreas E1336 (Fire Assay) Meas	518																							



Analyte Symbol	Au	Au	Pd	Pt	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%
Lower Limit	5	2	5	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01
Method Code	FA-AA	FA-ICP	FA-ICP	FA-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert	510																						
Oreas E1336 (Fire Assay) Meas	510																						
Oreas E1336 (Fire Assay) Cert	510																						
OREAS 681 (4 Acid) Meas					0.3	8.14		417	1	< 2	5.83		49	1460	269	7.97	17	1.45	5.25	13	1330	< 1	1.52
OREAS 681 (4 Acid) Cert					0.118	7.91		442	1.41	0.0980	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61
OREAS 247 (4 Acid) Meas					2.6	6.40	3060	537	3	< 2	0.92	< 0.3	13	88	43	3.46	17	1.58	1.32	35	413	< 1	0.51
OREAS 247 (4 Acid) Cert					2.16	6.08	3510	550	2.23	0.580	0.826	0.0650	12.0	97.0	42.2	3.32	16.3	2.45	1.22	31.8	360	1.76	0.499
B181356 Orig					< 0.3	5.93	43	25	< 1	< 2	3.79	0.4	54	649	68	9.26	14	0.08	5.44	49	2110	< 1	0.33
B181356 Dup					< 0.3	5.81	38	24	< 1	< 2	3.70	0.3	52	613	66	9.02	13	0.08	5.30	47	2050	< 1	0.32
B181359 Orig	< 5																						
B181359 Dup	< 5																						
B181368 Orig		< 2	< 5	< 5																			
B181368 Dup		4	< 5	< 5																			
B181370 Orig	< 5				< 0.3	5.01	< 3	115	< 1	< 2	0.44	< 0.3	4	42	7	0.99	10	0.40	0.31	12	186	1	2.95
B181370 Dup	< 5				< 0.3	5.36	3	121	< 1	< 2	0.45	< 0.3	4	48	7	1.07	10	0.43	0.34	13	208	< 1	3.09
1195602 Orig	8																						
1195602 Dup	8																						
1195603 Orig	6				0.5	5.94	31	145	< 1	< 2	1.63	< 0.3	41	42	28	3.90	15	1.60	0.31	5	356	< 1	1.32
1195603 Split PREP DUP	5				0.6	6.05	32	143	< 1	< 2	1.60	< 0.3	41	44	28	4.01	15	1.95	0.32	5	341	2	1.33
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		2	< 5	< 5																			
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	3	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	4	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01
Method Blank					< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	5	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 72a (4 Acid) Meas	6170				1.66											
Oreas 72a (4 Acid) Cert	6930.000				1.74											
Oreas 72a (4 Acid) Meas	6200				1.70											
Oreas 72a (4 Acid) Cert	6930.000				1.74											
OREAS 98 (4 Acid) Meas			286	7	15.3										1340	
OREAS 98 (4 Acid) Cert			345	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas			297	10	16.7										1370	
OREAS 98 (4 Acid) Cert			345	20.1	15.5										1360	
PK2 Meas																
PK2 Cert																
OREAS 904 (4 Acid) Meas	44	0.099	12	< 5	0.06	12	31			< 5	< 10	92	< 5	34	29	84
OREAS 904 (4 Acid) Cert	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas	83		32	< 5		18	185		0.51	< 5	< 10	230	< 5	28	195	114
SBC-1 Cert	83		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
OREAS 96 (4 Acid) Meas			94	< 5	4.23										457	
OREAS 96 (4 Acid) Cert			101	5.09	4.19										457	
OREAS 96 (4 Acid) Meas			94	< 5	4.39										468	
OREAS 96 (4 Acid) Cert			101	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	36	0.064	86	< 5	0.70	13	45		0.41	< 5	< 10	100	7	26	356	128
OREAS 923 (4 Acid) Cert	35.8	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 621 (4 Acid) Meas	31	0.039	> 5000	26	4.78	7	84		0.20	9	< 10	37	9	12	> 10000	178
OREAS 621 (4 Acid) Cert	26.2	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	30	0.039	> 5000	29	4.97	7	79		0.20	< 5	< 10	37	< 5	13	> 10000	181
OREAS 621 (4 Acid) Cert	26.2	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
CDN-PGMS-30 Meas																
CDN-PGMS-30 Cert																
Oreas 237 (Fire Assay) Meas																
Oreas 237 (Fire Assay) Cert																
Oreas 237 (Fire Assay) Meas																
Oreas 237 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																

Analyte Symbol	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas E1336 (Fire Assay) Cert																
Oreas E1336 (Fire Assay) Meas																
Oreas E1336 (Fire Assay) Cert																
OREAS 681 (4 Acid) Meas	462	0.140	11	< 5	0.10	26	457		0.57		< 10	256	< 5	16	82	65
OREAS 681 (4 Acid) Cert	503	0.141	10.2	0.240	0.109	27.7	478		0.588		1.44	253	1.09	17.5	88.0	58.0
OREAS 247 (4 Acid) Meas	50	0.046	30	412	0.73	12	106		0.37	< 5	< 10	73	< 5	17	91	142
OREAS 247 (4 Acid) Cert	45.9	0.0480	31.9	3300	0.714	11.4	96.0		0.390	0.800	2.53	82.0	7.88	13.1	86.0	125
B181356 Orig	123	0.021	4	< 5	0.03	45	40	< 2	0.40	< 5	< 10	257	< 5	11	183	40
B181356 Dup	122	0.020	6	< 5	0.03	44	39	< 2	0.33	< 5	< 10	239	< 5	11	174	38
B181359 Orig																
B181359 Dup																
B181368 Orig																
B181368 Dup																
B181370 Orig	15	0.025	< 3	< 5	< 0.01	5	82	< 2	0.13	< 5	< 10	28	< 5	6	27	28
B181370 Dup	16	0.028	< 3	< 5	< 0.01	5	88	< 2	0.15	< 5	< 10	33	< 5	6	27	44
1195602 Orig																
1195602 Dup																
1195603 Orig	142	0.111	7	< 5	2.26	12	122	< 2	0.44	< 5	< 10	98	< 5	13	36	152
1195603 Split PREP DUP	142	0.115	5	< 5	2.36	12	123	< 2	0.45	< 5	< 10	102	< 5	14	37	156
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	1	< 5
Method Blank	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5

## DAILY LOG – Horne 2021

2021-09-29

Scott Mortson & Ronan Leekam

- Travelled to the Horne Property to investigate historic showings on claims XXXX and XXX. Located both showings. Sample 1195601 (Showing #1) mafic volcanics, 5% pyrite with quartz carbonate veining. Sample 1195602 (Showing #2) rusty metasediments with 2% pyrite.

2021-09-30

Scott Mortson & Ronan Leekam

Travelled to property to investigate historic unrecorded showing on claim XXXX. Drove up old logging road, no outcrop found.

2021-10-04

Brent Clark (P.Geo), Scott Mortson, Ronan Leekam

Travelled back to showing #1 & 2 to conduct further sampling and investigate along strike. Showing #1; sheared mafic volcanics on side of old road. In total five (5) samples taken across outcrop. Shear zone appears to run ~NE/SW, intense chlorite alteration and locally 5% pyrite with multiple quartz carbonate veins/veinlets. Traversing south along old road numerous outcrops encountered with mafic volcanics near showing #1 in the north and pyritic metasediments in the south.

In total fifteen (15) grab samples collected.

2021-10-05

Scott Mortson & Ronan Leekam

Investigated access and prospecting on claims XXX, XXX.

Encountered trace pyrite in metasediments. Also and area of intense magnetics (BIF?).

2021-10-06

Scott Mortson & Ronan Leekam

Investigated road access at northern part of property and prospecting. Sample 1195603 taken (2% pyrite, calcite, felsic volcanics).

2021-10-14

Brent Clark & Ronan Leekam

Prospecting on claims XXX and XXX. Came across mostly meta-sediments, one outcrops of an ultramafic dyke with trace pyrite. North of the historic showing cam across a sheared outcrop with semi-massive sulphides.