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**Assessment Report  
On the  
Santa Maria Project  
Kenora Mining Division  
Northwestern Ontario**  
NTS MAP SHEET 52F08

**Prepared for  
Ashley Gold Corp.**

Prepared by  
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Clark Exploration Consulting Inc.  
November, 2022



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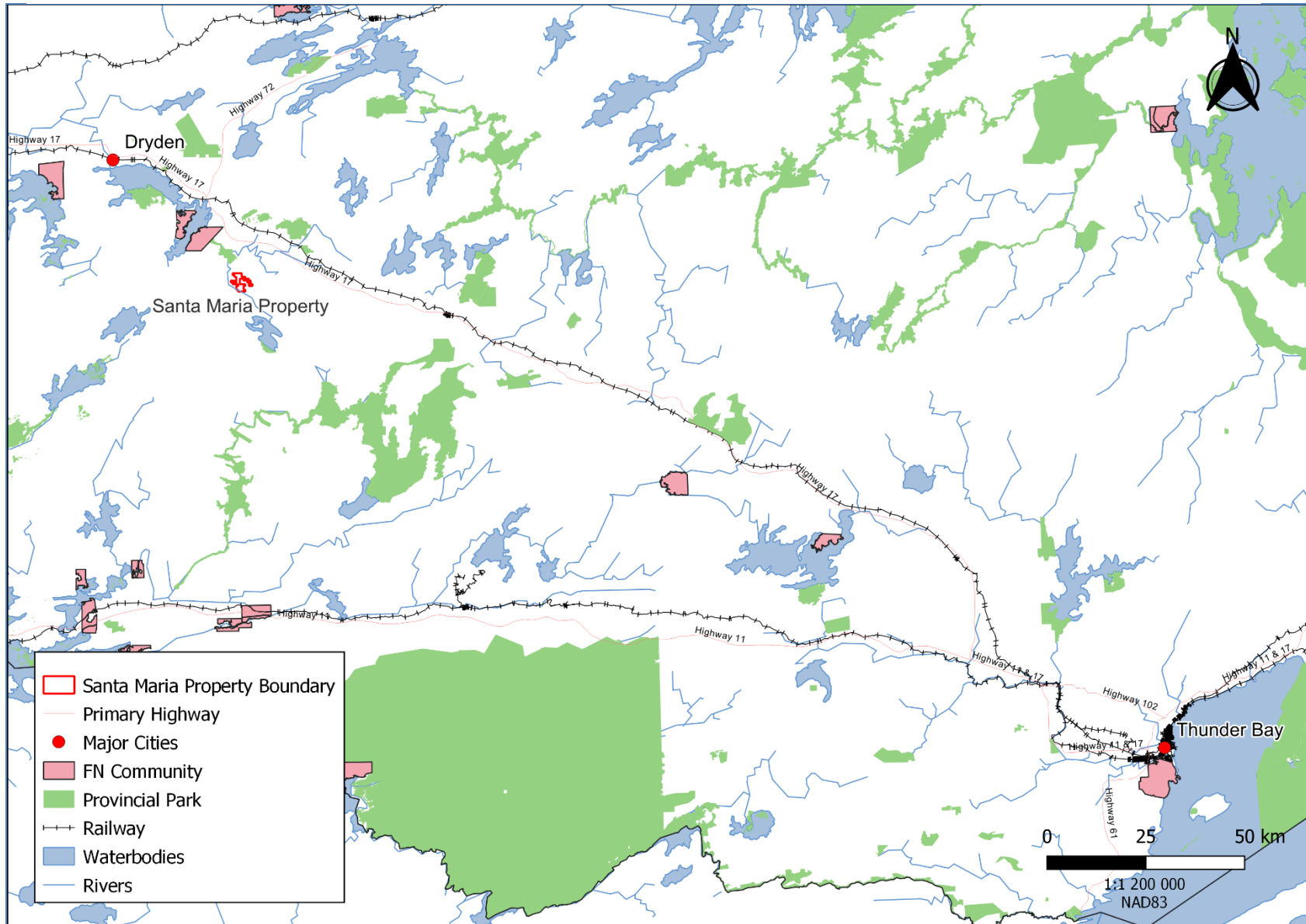
## 1.0 INTRODUCTION

The Santa Maria property is situated in the Tabor Lake Area and Kawashegamuk Lake Area townships within NTS map sheet 52F08 in the Kenora Mining Division. The Property is located 40 km south-east of Dryden, Ontario. The Santa Maria Property is comprised of 48 claims totalling 1007 hectares. The total work requirement for the claims is \$19,200 annually. Ashley Gold Corp. holds 100% ownership of the mining claims.

The Santa Maria property lies within the Eagle-Wabigoon-Manitou Lakes Greenstone Belt (EWMGB) which forms part of the Wabigoon Subprovince in Northwestern Ontario (Figures 3 and 4). The belt host many granitic batholiths which are thought to be derived from the same magmas as the belt volcanics. The largest batholith in the property area is the Revell Lake Granite batholith which lies roughly 5 km to the east of the Santa Maria

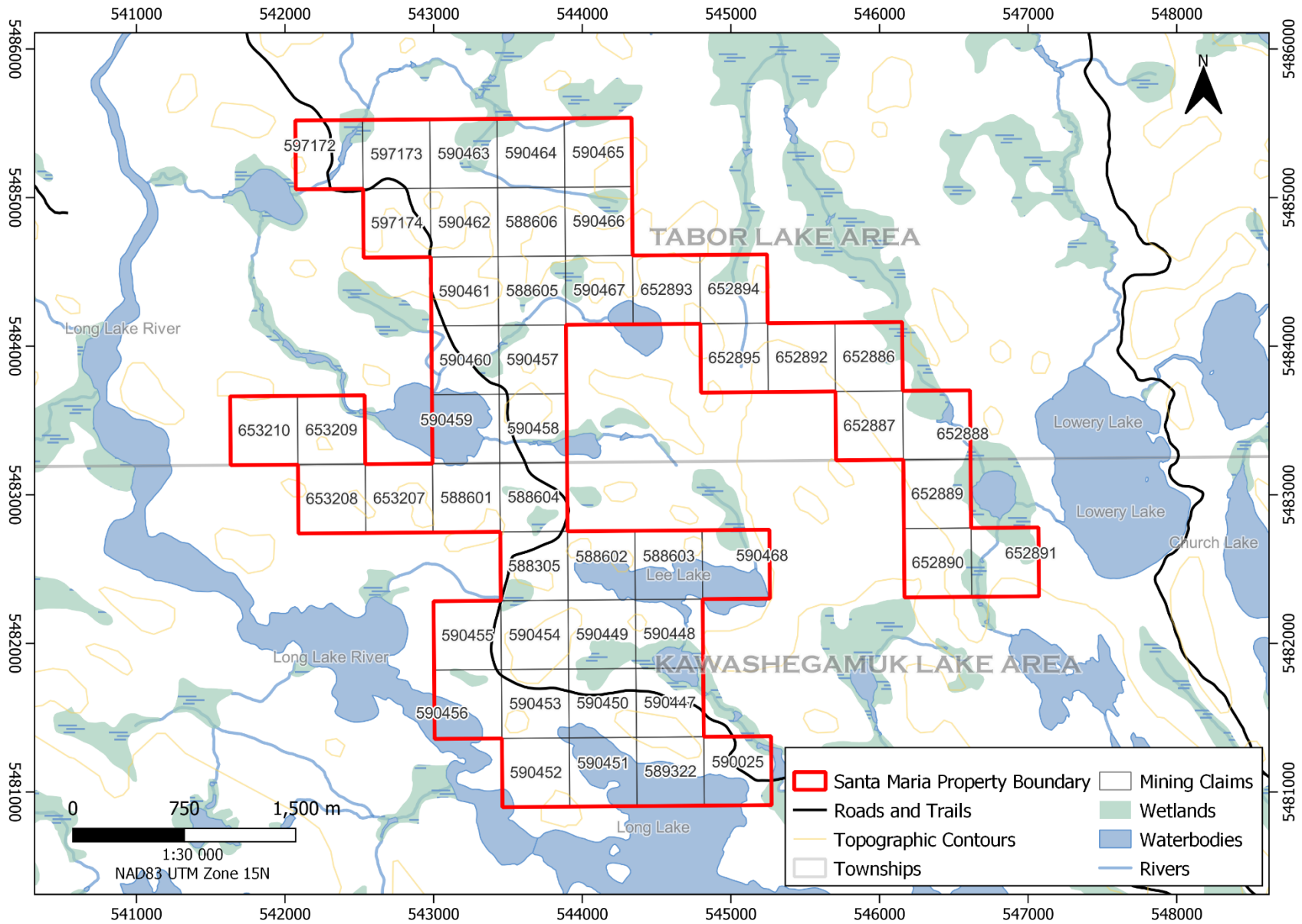
Clark Exploration and Consulting personnel carried out a prospecting program for Ashley Gold Corp. The program consisted of four field days spent on the property carried out from August 30th to Sept 2nd. A total of 30 grab samples were collected from the property and sent for multi-element analysis.

Figure 1: Santa Maria Property Location Map



Ashley Gold Corp.  
**Figure 2: Santa Maria Property Claim Map**

Santa Maria Property



## **2.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE & PHYSIOGRAPHY**

The following section is summarized from Newton & Wellstead, 2013.

The Santa Maria property is located approximately 260 km aerial distance northwest of Thunder Bay, Ontario. It is 40 km southeast of the town of Dryden and 56 km west of Ignace. Dryden and Ignace can be accessed from Thunder Bay by land via Trans-Canada Highway (Highway # 17) that leads northwest.

The property can be accessed by heading south on Sandy Point Road at Highway 17 near Borups Corner southeast of Dryden. This road passes the eastern outskirts of the property leading to the northern shores of Kawashegamuk Lake at Sandy Point Camp, a group of fishing/hunting lodges. At km 15.3 on the Sandy Point Road, an old access road runs in a northwesterly direction and leads directly to the property. An ATV or tracked Argo is required to access the property.

The climate is typical of Northern Ontario with average temperatures ranging from 2.6° to - 18.2°C in winter and from 4.4° to 18.5°C in summer. Average yearly rainfall is 535 mm and snowfall is 170 cm. Work can be carried out year round with very few exceptions, such as extreme cold temperatures and winter storms.

The property is close to Dryden, the second-largest city in the Kenora District of Northwestern Ontario. Dryden offers a strong economic base, with a large retail and service sector to serve residents and visitors. Situated midway between Winnipeg and Thunder Bay, Dryden is well connected to other cities, towns, and communities by the Trans-Canada Highway, CP Rail and the Dryden Regional Airport.

The Santa Maria Property lies within the boreal forest of Northern Ontario. The forest is managed by the Wabigoon Forest Unit (Dryden) and the timber rights are currently licensed to Domtar.

The terrain is typical of Northwestern Ontario, with relatively low, rounded ridges and minor ledges (2–30 m) separated by swampy valleys and small creeks. The overburden covered areas are a mixture of recent sand and gravel deposits and lacustrine clays. The elevation ranges from 375 m to 435 m averaging around 400 m above mean sea level.

The drainage system is generally mature with most small creeks and swamps draining southwards and westwards into the Kawashegamuk Lake and River system. There are many beaver dams in the area, resulting in flooding in parts of the Property. The Kawashegamuk River drains into the Wabigoon River which ultimately flows into the Winnipeg River System, Lake Winnipeg and onwards to the Arctic Ocean.

**Table 1: Santa Maria Property Claims**

Claim ID	Type	Anniversary	Holder	Township	Work Required
653210	Single Cell Mining Claim	2023-04-26	(100) Ashley Gold Corp.	Tabor Lake Area	400
653209	Single Cell Mining Claim	2023-04-26	(100) Ashley Gold Corp.	Tabor Lake Area	400
653208	Single Cell Mining Claim	2023-04-26	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
653207	Single Cell Mining Claim	2023-04-26	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
652895	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
652894	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
652893	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
652892	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
652891	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
652890	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
652889	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
652888	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
652887	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
652886	Single Cell Mining Claim	2023-04-22	(100) Ashley Gold Corp.	Tabor Lake Area	400
597174	Single Cell Mining Claim	2022-07-02	(100) Ashley Gold Corp.	Tabor Lake Area	400
597173	Single Cell Mining Claim	2022-07-02	(100) Ashley Gold Corp.	Tabor Lake Area	400
597172	Single Cell Mining Claim	2022-07-02	(100) Ashley Gold Corp.	Tabor Lake Area	400
590468	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590467	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590466	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590465	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590464	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590463	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590462	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590461	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590460	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590459	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590458	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590457	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Tabor Lake Area	400
590456	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590455	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590454	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590453	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590452	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590451	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590450	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590449	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590448	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590447	Single Cell Mining Claim	2022-05-19	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
590025	Single Cell Mining Claim	2022-05-17	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
589322	Single Cell Mining Claim	2022-05-17	(100) Ashley Gold Corp.	Kawashegamuk Lake Area	400
588606	Single Cell Mining Claim	2022-05-15	(100) Ashley Gold Corp.	Tabor Lake Area	400



588605	Single Cell Mining Claim	2022-05-15	(100) Ashley Gold Corp.	Tabor Lake Area	400
588604	Single Cell Mining Claim	2022-05-15	(100) Ashley Gold Corp.	Kawashagamuk Lake Area	400
588603	Single Cell Mining Claim	2022-05-15	(100) Ashley Gold Corp.	Kawashagamuk Lake Area	400
588602	Single Cell Mining Claim	2022-05-15	(100) Ashley Gold Corp.	Kawashagamuk Lake Area	400
588601	Single Cell Mining Claim	2022-05-15	(100) Ashley Gold Corp.	Kawashagamuk Lake Area	400
588305	Single Cell Mining Claim	2022-05-14	(100) Ashley Gold Corp.	Kawashagamuk Lake Area	400

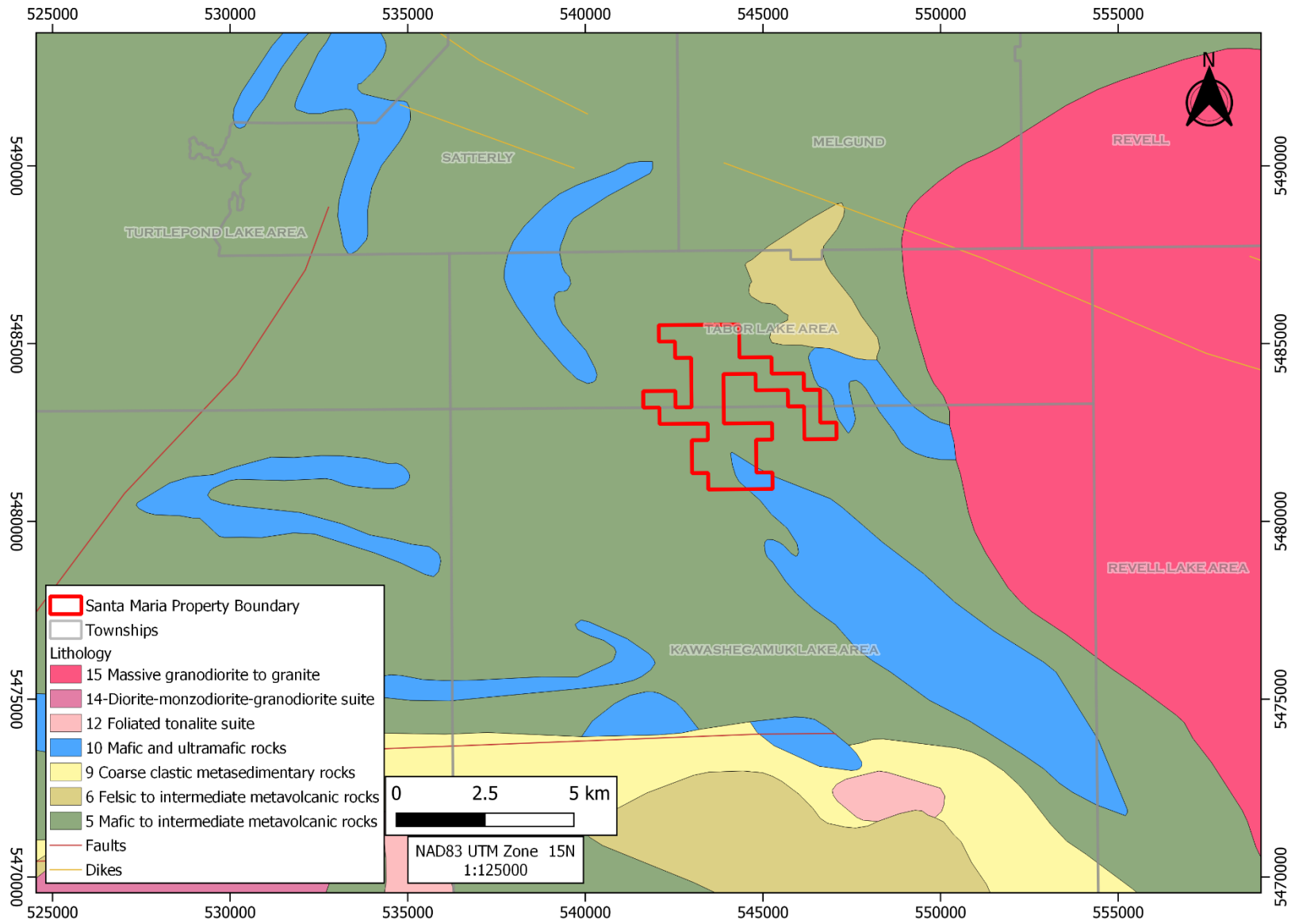
### 3.0 REGIONAL GEOLOGY

Regional Geology summarized from Newton & Wellstead, 2013.

The Santa Maria property lies within the Eagle-Wabigoon-Manitou Lakes Greenstone Belt (EWMGB) which forms part of the Wabigoon Subprovince in Northwestern Ontario (Figures 3 and 4). The belt is peppered with granitic batholiths which are thought to be derived from the same magmas as the belt volcanics. The largest batholith in the property area is the Revell Lake Granite batholith which lies roughly 5 km to the east of the Santa Maria Property.

The greenstone belts are primarily volcanic (ultramafic to felsic) with minor clastic and chemical sediment. All units have been metamorphosed, deformed and intruded locally by syntectonic and post tectonic plutons and intrusions of ultramafic to felsic geochemistry.

Figure 3: Santa Maria Property Regional Geology



#### 4.0 LOCAL AND PROPERTY GEOLOGY

Local and Property Geology summarized from Sears, 2009.

The Eagle-Wabigoon-Manitou Greenstone Belt (EWMGB) is aligned roughly north-south, and is approximately 80 km long and 40 km wide. It is bounded by the Atikwa Batholith on the west, the Basket Lake and Revel Batholiths on the east and the Irene-Eltrut Lakes Batholith on the south. The northern boundary contacts the Winnipeg River Sub province.

The EWMGB is made from several lower sequences of tholeiitic to calc-alkaline ultramafic, mafic and felsic volcanic rocks which form the Lower Wabigoon, Pincher Lake and Kawashegamuk Lake Groups, and overlying sequences of mainly tholeiitic mafic volcanic rocks referred to as upper Wabigoon, Eagle Lake and Boyer Lake Groups. The mainly mafic Wapageisi Group occupies the southern part of the greenstone belt separated from the remainder by the east-west trending Stormy Lake/Manitou Lakes Group of sedimentary and calc-alkaline felsic to intermediate volcanic rocks.

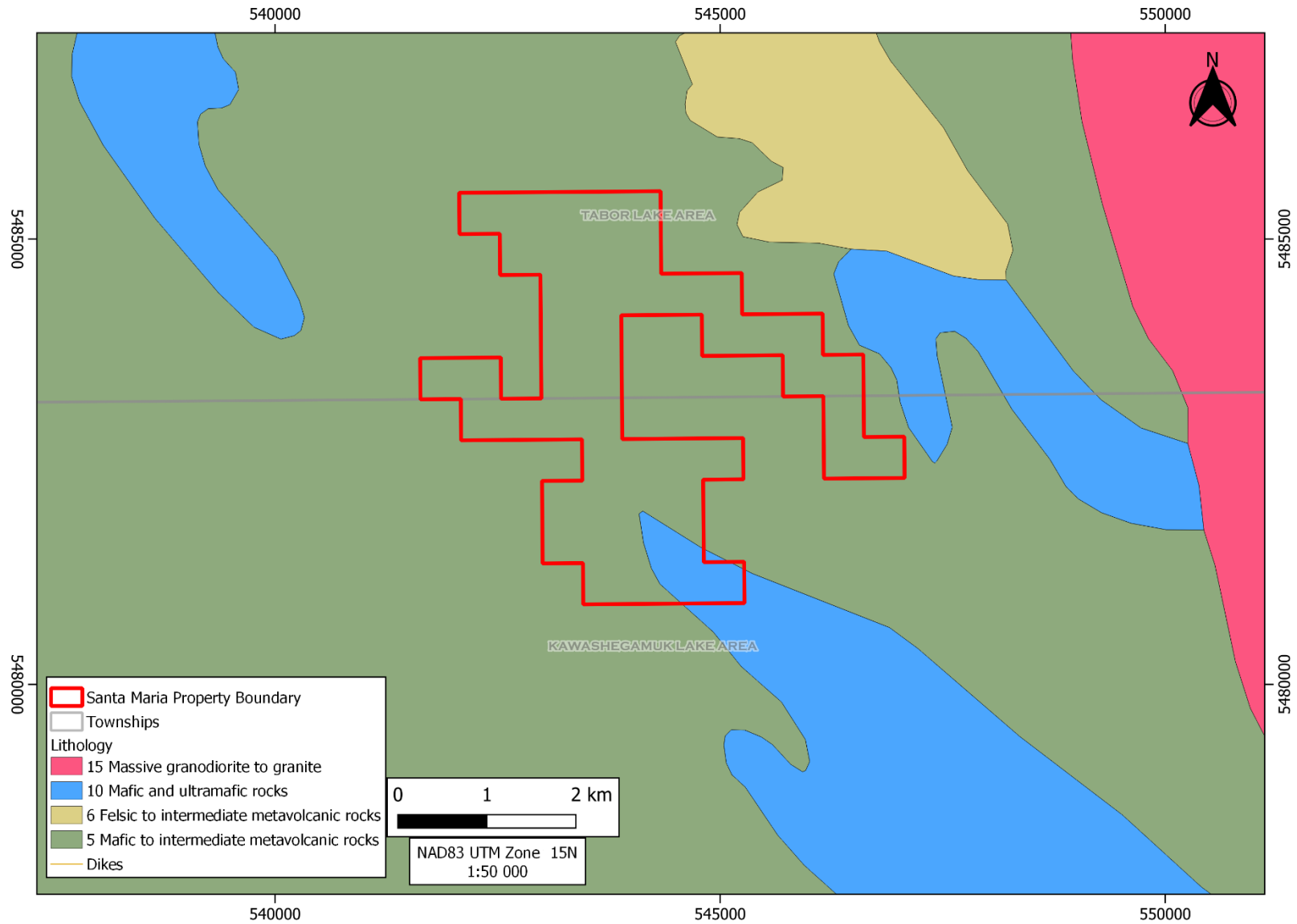
Several large regional faults cut the belt including the northeast trending Manitou Straits Fault Zone, the east-west trending Mosher Bay-Washeibemaga Lake Fault Zone, the east west trending Wabigoon Fault and the northwest trending Kawashegamuk Lake Fault Zone. The latter passes along the edge of the Santa Maria Property.

The Revell Batholith, which forms the eastern boundary of the Kawashegamuk group volcanic rocks in this area, is located approximately 5 km east of the Santa Maria Property.

Most of the Santa Maria Property is underlain by calc-alkaline metavolcanics of the Archean aged Kawashegamuk Lake Group (Figures 3 and 4) which form a lower mafic sequence and an upper intermediate-felsic sequence. These units have been intruded by dykes and small bodies of hypabyssal felsic rocks. The volcanics and the intrusives have been elongated and folded along an east-west axis (the Tabor Lake anticline).

A very strong northwest trending fault/shear structure passes along the southwest boundary of the claim group. The axis of this structure follows Kawashegamuk Lake (also referred to as Long Lake) several gabbroic intrusive bodies are located along or proximal to the Kawashegamuk Lake structure. This shear hosts a zone of intense carbonate alteration that affects the mafic intrusive and volcanic rocks as well as the younger quartz and quartz feldspar porphyry bodies in the area. Outcrops of porphyry exist along the strike of this zone (off the claims) as well as in a wide swath in the northeast corner of the property area.

Figure 4: Santa Maria Property Geology



## 5.0 EXPLORATION HISTORY

Exploration History Summarized from Newton & Wellstead, 2013

Various individuals and companies have acquired or examined portions of the claim group commencing around 1900. The property size and shape has changed over its 100 year period and some of the summarized history below details work done on portions of the property that are no longer part of the Santa Maria property.

1900–1901

Long Lake Gold Mining Company completed 2 shafts, 28 feet (8.5 m) and 20 feet (6.1 m) and planned a test stamp mill on the zone referred to as the Santa Maria Shaft Zone.

1939

Sylvanite Gold Mines Limited completed a brief assessment of the property; one sample collected from Santa Maria Shaft area assayed 6.1 g/t Au.

1964

Resident Geologists Report of a “high grade” quartz vein found by N. McKinnon in the early 1900s. This occurrence is referred to as the Lee Lake occurrence although it is on Long Lake (Kawashgamuk Lake).

1964

W. L. Olsen is reported to have held claims but no relevant assessment work has been located.

1980

Sulpetro completed a geological mapping program on the adjacent Tabor Lake Mine Property. The southern part of this property now lies within the United Reef Santa Maria Claim Group.

1981

Falconbridge Copper Limited completed magnetometer and VLF-EM surveys over the western part of the Santa Maria Property.

1984

Labrador Exploration Limited completed a ground magnetometer (Fluxgate) survey over a 33 claim property that included the Santa Maria Shaft Zone; they are also reported to have completed 1 diamond drill hole in the area of Shaft #1 of the Santa Maria Zone, but neither drill logs nor assays were located.

1988-1989

A. Glatz completed prospecting and sampling as well as bulldozer stripping in the winter in the area of the Santa Maria Shafts Zone.

1990

A. Kozowy completed blasting and sampling on the Lee Lake (Matson) occurrence, grab samples as high as 26.7 g/t Au.

2009

As part of data verification in the preparation of a NI 43-101 Technical Report for United Reef Limited, Seymour Sears of Sears, Barry and Associates Ltd visited the property for the purpose of confirming the presence of gold mineralization and to determine the potential for hosting economic gold mineralization. Six rock samples were collected within the vicinity of the Santa Maria Shaft Zone with sample descriptions and assay results shown in Table 2.

Sample Number	UTM East	UTM North	Type/Width	Description	Au (ppb)
M752001	543554	5482637	Chip /0.6m Shaft wall	95% quartz, 2% sulphides (pyrite, galena, chalcopyrite), 3% carbonate	3410
M752002	543554	5482638	Chip /0.6m Shaft wall	48% quartz, 50% carbonate, 2% pyrite, trace chalcopyrite	1120
M752003	543554	5482649	Chip /0.6m Shaft wall	80% feldspar/qtz porphyry, 15% carbonate, 3% quartz, 2% pyrite	12
M752004	543403	5482674	Chip /0.8m old channel	20% quartz, 75% carbonate, 3% sericite, 2% sulphides (pyrite, chalcopyrite)	351
M752005	543405	5482668	Composite waste pile	95% quartz, 2% sulphides (pyrite, galena, chalcopyrite), 3% carbonate	1860
M752006	543541	5482580	Composite 2 x 2 meters	95% carbonate, 4% quartz, 1% sulphides (pyrite, chalcopyrite)	80

2012

Black Widow Resources conducted an airborne EM and magnetic survey over the Santa Maria property. The magnetic data show strong NW-trending striations corresponding to the subvertical metavolcano-sedimentary units of the Eagle-Wabigoon-Manitou belt. An outstanding high in the magnetic derivative data is located in the vicinity of the two Santa Maria shafts within approximately 100 m to the northwest of Shaft 2.

An initial site visit to the Santa Maria property was made by Black Widow and the Brian Newton, P. Geo in August 2012. The Santa Maria shaft was visited and eight samples were taken from both shaft areas plus an old trench that lies close to Shaft #2.

There were some samples with elevated Au values (293, 199 pbb). This sampling did not generate values comparable to those produced historically favourably with earlier purported results by other samplers.

## **6.0 2022 PROSPECTING PROGRAM**

Clark Exploration and Consulting personnel carried out a prospecting program for Ashley Gold on the Santa Maria Property located in the Tabor Lake Area and Kawashegamuk Lake Area townships in the Kenora Mining Division. The program consisted of four field days spent on the property carried out from August 30<sup>th</sup> to Sept 2<sup>nd</sup>. A total of 30 grab samples were collected from the property and sent for multi-element analysis. Prospecting tracks can be seen in Figure 5, grab sample locations in Figure 6 and 7.

The crew spent half of a day prospecting and assessing access to the property via boat on Long Lake and using ATVs along Camp 33 road. This access dictated the scope of work completed during the rest of the program.

The majority of work performed focused around historic occurrence on the property. One day was spent traversing the southern extent of the property and immediately around the Lee Lake South occurrence (claim 590025). The other historic occurrence visited was Shaft 2, located in the central portion of the property (claim 588305).

Grab sample descriptions can be found in Appendix I. Highest gold values found were 14.3 ppm in grab sample E6096208 and 11.1 ppm in sample E6096222.

Figure 5: Santa Maria Prospecting Tracks

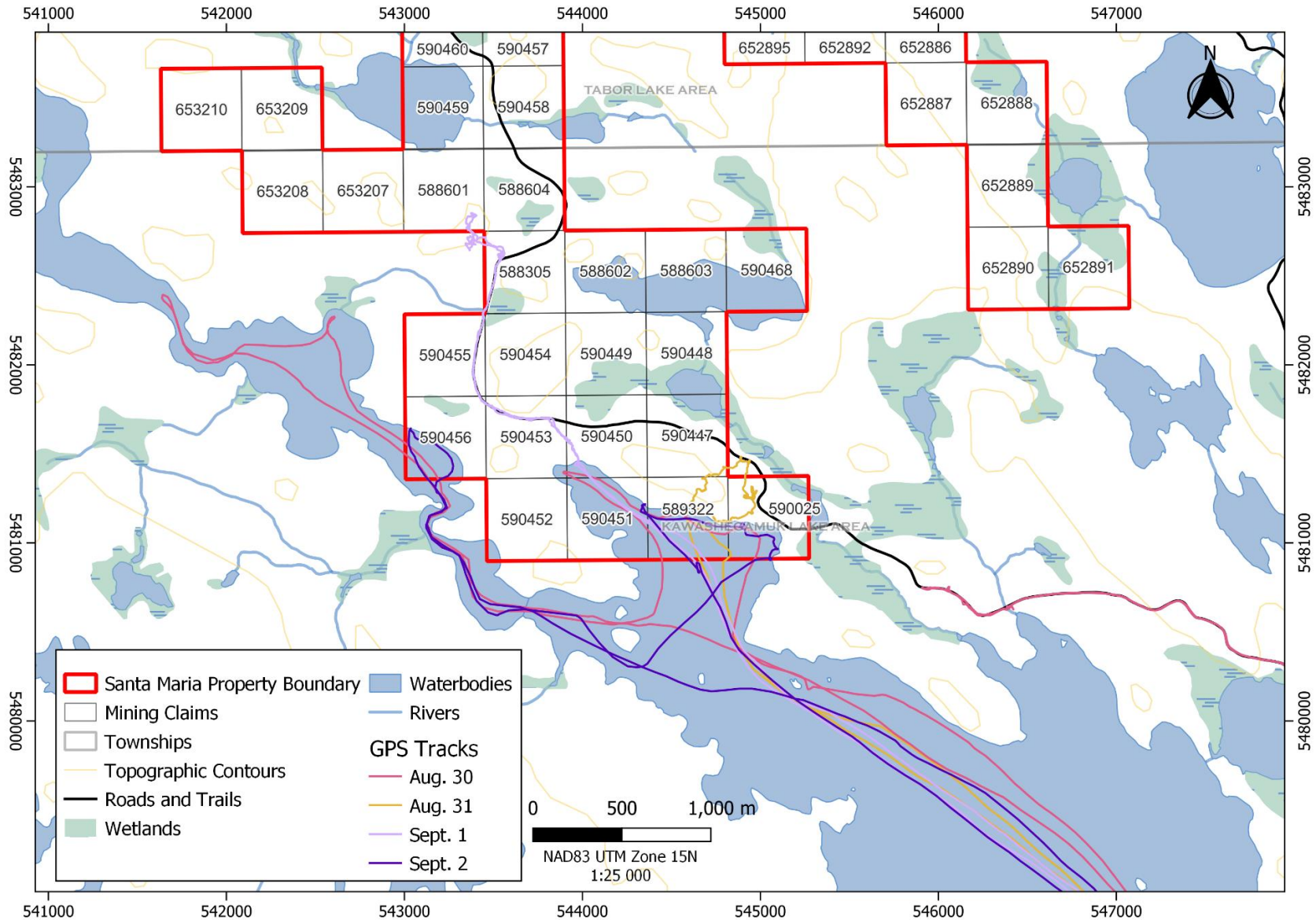




Figure 6: Grab Sample Locations South

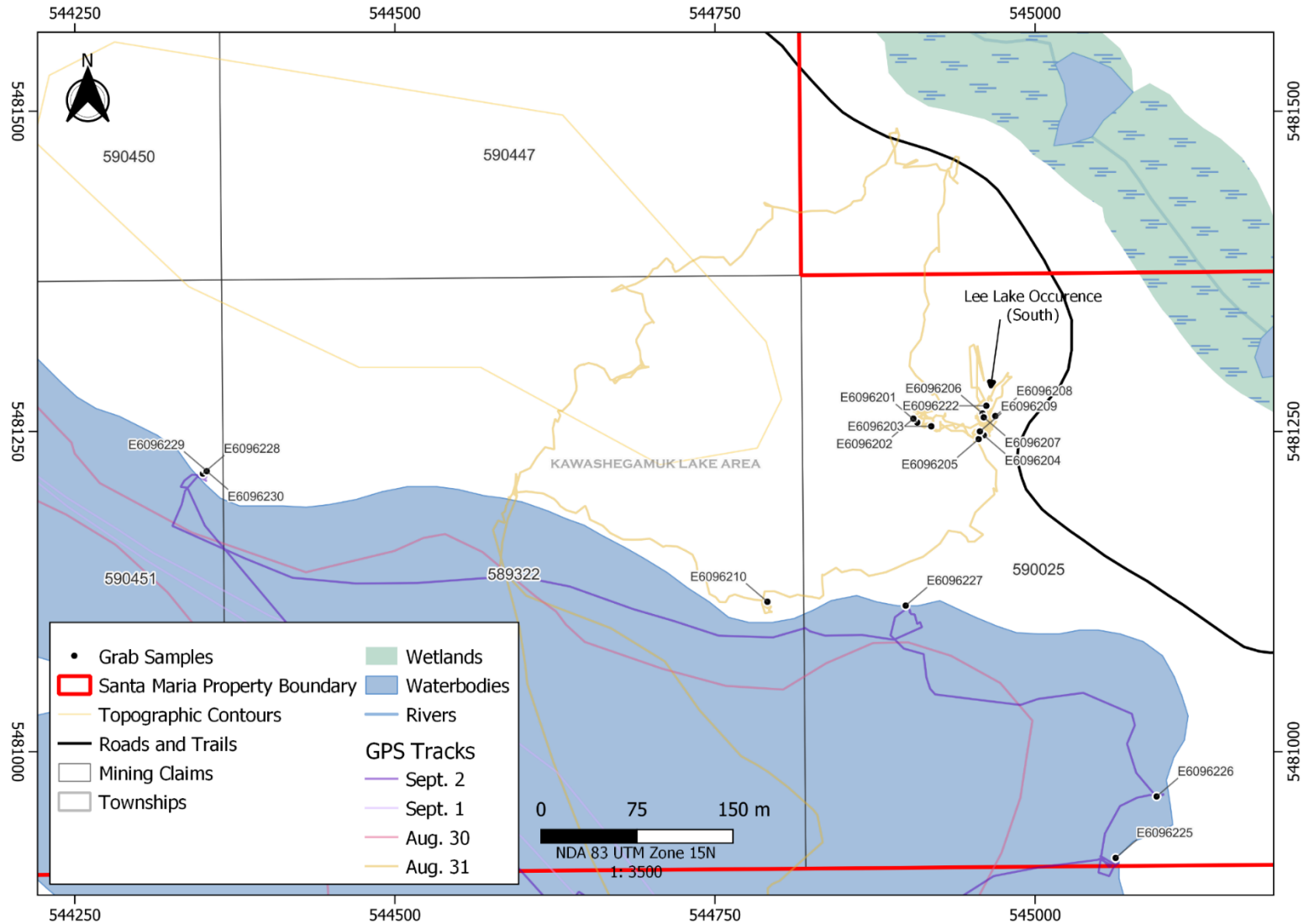
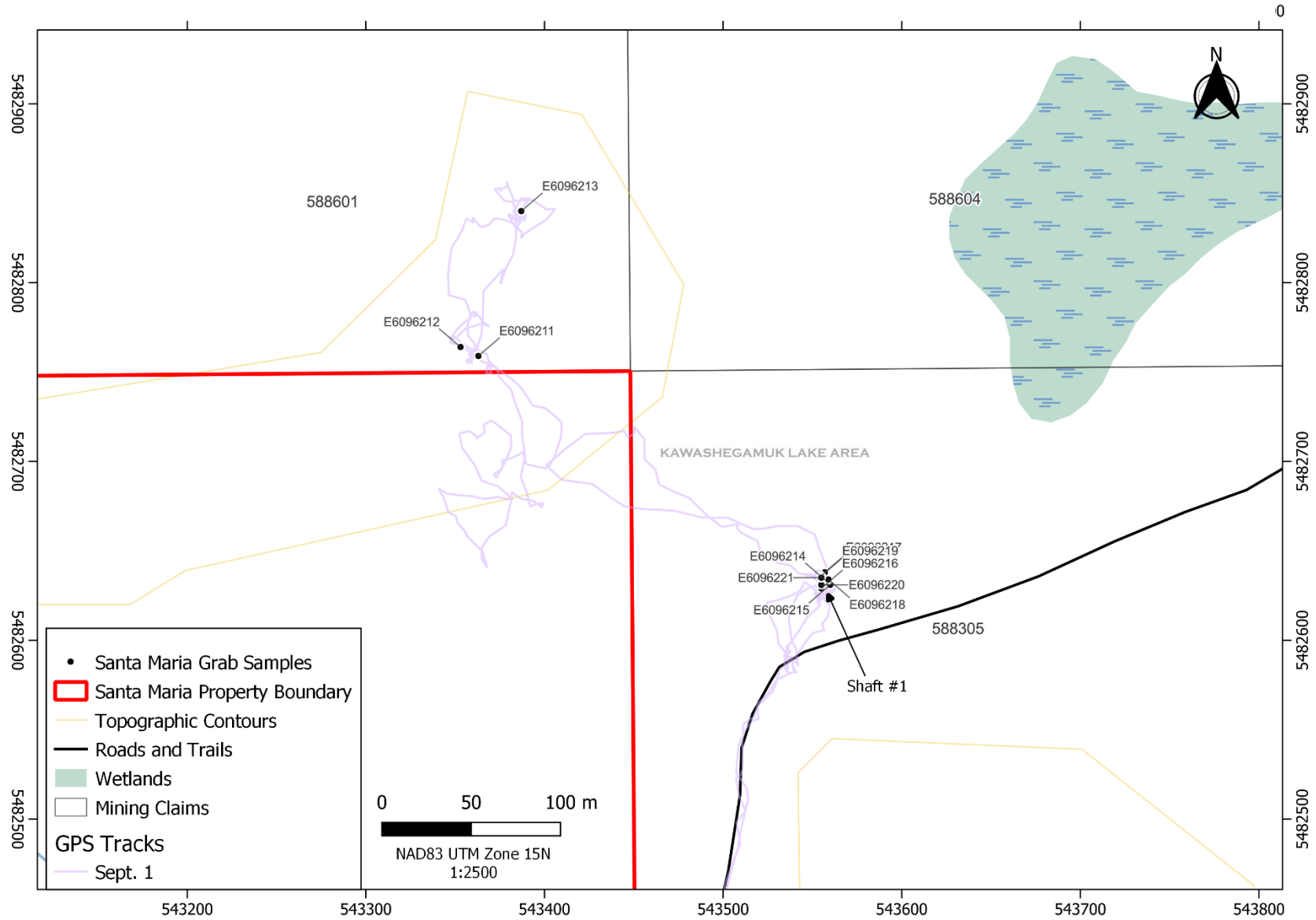


Figure 7: Grab Sample Locations North



## 7.0 SAMPLE PREPARATION, ANALYSIS AND SECURITY

Grab and channel samples were collected and placed in sample bags with appropriate sample tags and sealed with zip ties. All samples were delivered directly to the laboratory by Clark Exploration staff.

Analysis of the grab samples was conducted by AGAT Laboratories in Thunder Bay, Ontario. AGAT Laboratories is independent from Ashley Gold Corp.. The samples were transported to Thunder Bay and dropped off at the lab where prepared, crushed, pulverized and dried. All surface samples were analyzed using Au-AA24 (Au) and ME-ICP61 procedures. Where samples returned values greater than 3.0g/t Au, a gravimetric finish was applied (Au-GRA22).

### Au-AA24

Sample Decomposition: Fire Assay Fusion, Atomic Absorption Spectroscopy

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 ml dilute nitric acid in the microwave oven, 0.5ml concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4ml with de-mineralized water and analyzed by atomic absorption spectroscopy against matrix-matched standards.

### Au-GRA22

Sample Decomposition: Fire Assay Fusion, Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold.

### ICP-OES

Sample Decomposition: HNO<sub>3</sub> – HClO<sub>4</sub> – HF – HCl digestion, HCl Leach (4Acid)

A prepared sample (0.25g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analysed by ICP-AES spectrometry. Results are corrected for spectral interelement interferences.

AGAT's Quality System is accredited to international quality standards through the following organizations:

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

AGAT Laboratories is accredited and/or certified to the following standards:

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

## 8.0 INTREPRETATIONS AND CONCLUSIONS

### 8.1 Prospecting Access

The crew was successful in accessing the southern portion of the property using a boat on Long Lake. The southern portion of the property is the only area on the property that can be immediately accessed by boat. Crews attempted to access the south-east corner of the property using ATVs along Camp 33 road. Camp 33 road is a historic road that runs from the south-eastern corner of the property, all the way to the north-western corner of the property. This road was extremely overgrown with mature alders and thick undergrowth. Crews could not reach the south-eastern property boundary. However, this gravel and sand-based road was walked by the crew to access the Shaft 2 area. Portions of the Camp 33 road are washed out or flooded in areas where it passes swamps or crosses over small streams.

### 9.2 Prospecting Historic Occurrences

#### Lee Lake South Occurrence

Lee Lake South Occurrence consists of a 3x3 m blast pit on the side of an east-west ridge. This occurrence can be found roughly 50 m west of Camp 33 road and 150 m north of Long Lake within claim 590025. The pit appears to target a moderately altered and deformed volcanic unit with ankerite alteration intensifying near quartz veins. Veining observed in the pit wall measured 300/80° with a quartz-carbonate-tourmaline-chalcopyrite-chlorite-gold assemblage. Laminations (chlorite/tourmaline) are present within veins. Chalcopyrite blebs (up to 1%) and fine grained pyrite stringers are present near the vein margins (up to 3%). Visible gold fleck occurring with pyrite within vein (sample E6096222).

Blast rock consisted of the host volcanic unit and occasional pink-red felsic (possible Quartz-feldspar Porphyry). Quartz vein material was abundant in blast rock in both the volcanic and QFP lithologies. Some vein material appeared to be more than 20-30cm wide.

Quartz veining is also observed 50 m west of the pit along the ridge. These veins are more irregular with a 2-3 cm width measuring 275/70°. Considering orientation, assemblage and proximity, these veins are likely related to the veins observed within the pit.

The ridge which extends west of the Lee Lake South pit is geologically homogenous-made up almost exclusively of a mafic to intermediate volcanic unit displaying weak to moderate foliation trending E-W to slightly NE-SW. Pervasive chlorite alteration with moderate silica alteration observed to the far NW of the ridge.

Grab samples were collected from the blast rock and veins within the pit as well as the veins observed to the west. The highest gold values obtained were from the vein on the wall of the pit: 14.3 ppm in sample E6096208 and 11.1 ppm in sample E6096222 (visible gold sample). Grab sample locations with gold values displayed in Figures 8 and 9. Assay certificates displayed in Appendix II.

### Shaft 1

Shaft 1 is roughly 31 m north of Camp 33 road, roughly 100 m east of the western property boundary, within claim 588305. It was accessed by landing the boat on the northern shore of Long Lake and walking up the overgrown Camp 33 road.

Shaft 1 is more of a blast pit than a shaft- roughly 5m x 5 m wide and 4 m deep. The pit targets a 50-100 cm wide quartz-ankerite-sericite-galena-chalcopyrite vein, malachite is observed on weathered surfaces. Up to 5% galena is observed in samples with 1-3% pyrite along vein margins. The orientation of the main vein is 310/83°. Upper and lower contacts of the vein are extremely sheared. Shear material extends from 30 cm on the south side to roughly 3 m on the north side. There are also lenses/inclusions of sheared material within the main vein. Smaller centimeter scale veins within sheared material to the north were also observed- measuring 275/80°. These smaller veins have a similar assemblage to main vein without the abundant sulphides. Both the main and secondary veins are crystalline and appear to contain some albite. Highest values obtained from samples from Shaft 1 was 5.81 ppm Au and 6010 ppm Pb (sample E6096217). Grab sample locations with gold values displayed in Figures 8 and 9. Assay certificates displayed in Appendix II.

Geology seen in areas surrounding both Shaft 1 and Shaft 2 is homogeneous. Mafic to intermediate volcanics with no mineralization observed- rare quartz-carbonate stringer veins.

Figure 8: Grab Sample Au Values: Shaft 1 Area

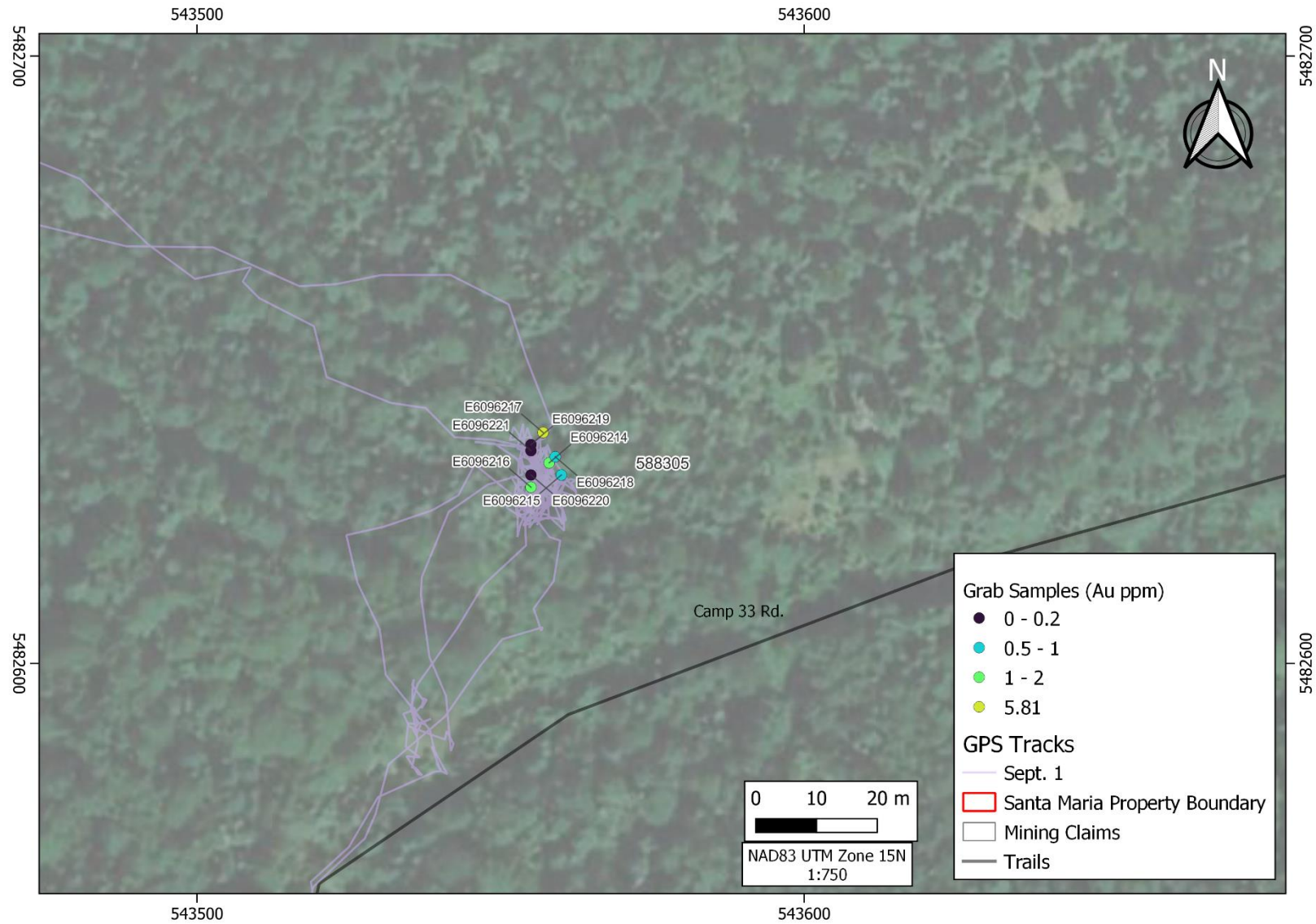
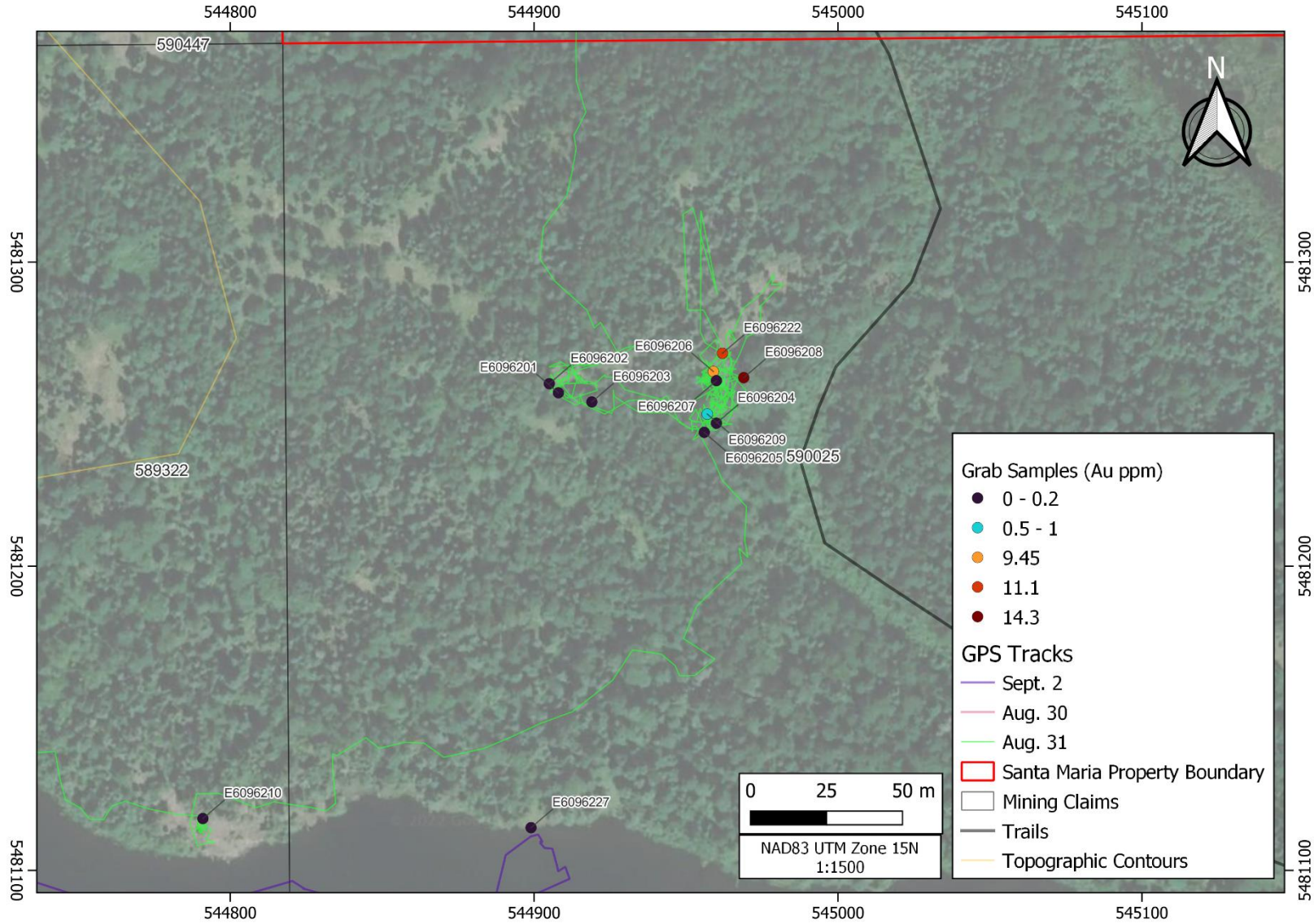


Figure 9: Grab Sample Au Values: Lee Lake South Occurrence Area





## 9.0 RECOMMENDATIONS

The 2022 field program was successful in locating two historic occurrences hosted within the Santa Maria property. Sampling at these historic occurrences yielded anomalous gold values- consistent with values reported in historic reports.

Prior to any future work being done, reclamation of the historic Camp 33 road should take place. One crew consisting of at least two members should clear brush and deadfall off this trail in order for it to be used for access during future programs.

Given the success of this past prospecting program, a three-phase exploration program is recommended. The first phase of the prescribed program should involve geological mapping across the entire property. Additional focus should be given to the areas around historic occurrences as well as any historic geophysical anomalies. Structural and geochemical data collected proximal to these historic occurrences should allow for possible correlation between the occurrences-in hopes of better understanding gold endowment and structural trends on a property scale. Given the size of the property, 30-40 days of mapping should be performed by one field crew made up of two members. This phase should have the goal of identifying targets/prospects for development in future phases of the program.

The second phase of the program should involve hand stripping and channel sampling at prospects developed during the mapping phase. Ideally, these prospects would have little to no overburden in order to be stripped without the use of heavy machinery. Stripping of prospects would allow for systematic sampling and structural data collection. The length of this phase of the program will be determined on the prospectiveness of targets generated in phase one.

The final phase of the proposed program is diamond drilling. A short diamond drill program (1,000 – 1,200 m) should focus on targets developed through the first two phases of the program. The most prospective targets should be drilled first at a 50 m vertical depth. Further drilling on any target should follow a systematic approach with 50 m space holes along strike of the structure. Core orientation instruments should be utilized during this process.

## **10.0 REFERENCES**

Sears, S.M., 2009: NI 43-101 Technical Report on the Santa Maria Property, Kenora Mining Division, Ontario, Canada for United Reef Limited.

Newton, B.H., Wellstead, M.P., 2013. Assessment Report on the Santa Maria Property Visit. AFRI ID: 20000008075

## 11.0 CERTIFICATE AND QUALIFICATIONS

Percy Clark  
941 Cobalt Crescent  
Thunder Bay, Ontario  
Canada, P7B 5Z4  
Telephone: 807-622-3284  
Email: percy@clarkexploration.com

### CERTIFICATE OF QUALIFIED PERSON

I, Percy Clark, P. Geo. (#304), 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 Bachelor of Science (Geology) from Acadia University, Wolfville, Nova Scotia in 2017.
3. "Assessment Report" refers to the report titled "Assessment Report On the Santa Maria Project Kenora Mining Division Northwestern Ontario", dated November 2022.
4. I am a registered Professional Geoscientist with the Association of Professional Geoscientists of Nova Scotia (#304).
5. I have worked as a Geologist since my graduation from university.
6. I am the author of this report and responsible for all sections 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 16<sup>th</sup> day of November 2022.

"Percy Clark"

---

Percy Clark, P. Geo.

**APPENDIX**

Appendix I – Sample Description

Appendix II - Assay Results

Appendix III - Field Notes

Sample Number	Station ID	Sample Number	UTM Easting	UTM Northing	Elevation	Date Sampled	Geologist	Type	Rock Type	Grain Size	Colour	Texture	Sulphides	Sulphide %	Sulphide Style	Alteration Intensity	Primary Alteration Mineral	Alteration Texture	Deformation	Description
E6096201	590025	E6096201	544908	5481257	387	2022-08-31	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Light Green-Grey	Schistose	Pyrite	0.2	Disseminated	Moderate	Silica	Patchy	Strong	Green - grey mafic volcanic altered with silica + spotty iron carb + serc. Quartz vein material 40% of sample, trace disseminated pyrite within host rock. Moderate foliation / schist texture
E6096202	590025	E6096202	544905	5481260	392	2022-08-31	Tommy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Light Green-Grey	Schistose		nil		Moderate	Ankerite	Fracture-Fill	Moderate	Moderate alteration along vein margins ank +sllc. No sulphides, schistose texture. Minor vugs within veins
E6096203	590025	E6096203	544919	5481254	393	2022-08-31	Percy Clark	Outcrop	Quartz Vein	Medium (1mm - 5mm)	White	Vuggy	Pyrite	0.2	Disseminated	Moderate	Ankerite	Vein Halo	Moderate	qtz vn sample on south side of ridge from semi irr qtz vn 275/70, ank alt on vn margins, rare py grains, mod def host IV
E6096204	Lee Lake South Pit	E6096204	544960	5481247	397	2022-08-31	Tommy Clark	Blast rock	Quartz Feldspar Porphyry	Medium (1mm - 5mm)	Pink	Porphyritic	Pyrite	2	Patchy	Moderate	Biotite	Fracture-Fill	Weak	Possible alp unit, heavily siliceous, biotite stringers with cubic pyrite.
E6096205	Lee Lake South Pit	E6096205	544956	5481244	398	2022-08-31	Tommy Clark	Blast rock	Quartz Vein	Fine (<1mm)	Light Grey	Sugary	Pyrite	2	Disseminated	Moderate	Sericite	Patchy	Moderate	blast rock sample, 80% vn material ser-ank-chl altered, 2% cubic py, biotite stringers lamonating vn
E6096206	Lee Lake South Pit	E6096206	544959	5481264	396	2022-08-31	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	White	Laminated	Pyrite	3	Blebbly	Moderate	Ankerite	Vein Halo	Moderate	5cm qtz-ank-chl-cpy vn ank alt occurring along margins
E6096206	Lee Lake South Pit	E6096206	544960	5481266	396	2022-08-31	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	White	Laminated	Chalcopyrite	0.5	Blebbly	Moderate	Ankerite	Vein Halo	Moderate	5cm qtz-ank-chl-cpy vn ank alt occurring along margins
E6096207	Lee Lake South Pit	E6096207	544960	5481261	398	2022-08-31	Percy Clark	Outcrop	Intermediate Volcanic	Fine (<1mm)	Drk Grey	Foliated	Pyrite	3	Disseminated	Moderate	Ankerite	Patchy	Moderate	altered IV, 3% py diss as 1-2mm blebs throughout, unit occs along margins of vn
E6096208	Lee Lake South Pit	E6096208	544969	5481262	397	2022-08-31	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	Grey	Sugary	Pyrite	3	Disseminated	Weak	Ankerite	Patchy	Weak	vn sample of 4cm qtz-chl-ank-py vn with vfg diss py grey-metallic, laminated vn, heabit rusted portions
E6096209	Lee Lake South Pit	E6096209	544957	5481250	398	2022-08-31	Percy Clark	Blast rock	Quartz Vein	Fine (<1mm)	White	Massive	Pyrite	1	Disseminated	Weak	Sericite	Patchy	Weak	blast rock sample 100% qtz-chl-bt-py, 1% cubic py
E6096210	589322	E6096210	544791	5481117	381	2022-08-31	Percy Clark	Outcrop	Quartz Vein	Medium (1mm - 5mm)	White	Massive		nil		Moderate	Chlorite	Patchy	Moderate	irr bull Qtz vn in mafic volc host, nil sulphides
E6096211	588601	E6096211	543363	5482759	404	2022-09-01	Tommy Clark	Outcrop	Intermediate - Mafic Volcanic	Fine (<1mm)	Light Grey	Sugary	Pyrite	0.2	Disseminated	Moderate	Sericite	Patchy	Weak	Grey int to mafic volcanic sample, 10% qtz carb vein material. Trace disseminated pyrite within host rock. Surficial ankerite + patchy sericite + patchy silica alt.
E6096212	588601	E6096212	543353	5482764	407	2022-09-01	Percy Clark	Outcrop	Intermediate - Mafic Volcanic	Fine (<1mm)	Red-Brown	Foliated	Pyrite	0.2	Patchy	Moderate	Ankerite	Fracture-Fill	Weak	Dark grey red brown colour, fracfill and surficial ank + patchy silica + patchy sericite. Trace cubic pyrite.
E6096213	588601	E6096213	543387	5482840	412	2022-09-01	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Green-Grey	Massive				Weak	Chlorite	Pervasive	Not Present	undeformed MV taken from top of ridge- no sulf seen, lapilli fragments make up 20% of rock
E6096214	Shaft 1	E6096214	543558	5482633	404	2022-09-01	Tommy Clark	Outcrop	Quartz Vein	Fine (<1mm)	White	Sugary	Chalcopyrite	0.5	Patchy	Moderate	Ankerite	Layered Infill	Weak	Vein material from vein near shaft 1. S310/D83. Layered ankerite + patchy moss green sericite alt. Trace patchy pyrite within vein material + patchy trace chalc.
E6096215	Shaft 1	E6096215	543560	5482631	401	2022-09-01	Tommy Clark	Float	Intermediate - Mafic Volcanic	Fine (<1mm)	Red-Brown	Massive	Pyrite	1	Disseminated	Strong	Ankerite	Pervasive	Moderate	Intermediate to mafic float with 40% vein material. Heavily altered with pervasive sericite + surficial / layered ankerite alt. 1% disseminated pyrite within host rock. Vein material has vugs and small black biotite stringers.
E6096216	Shaft 1	E6096216	543555	5482629	404	2022-09-01	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	Red-Brown	Sugary	Galena	3	Blebbly	Moderate	Ankerite	Patchy	Moderate	Qtz vein material, moderate shear + sugary texture. red-brown-white colour, moderate patchy ankerite + patchy carb + pervasive sericite. Patchy galena + 1% disseminated pyrite.
E6096217	Shaft 1	E6096217	543557	5482638	400	2022-09-01	Percy Clark	Outcrop	Quartz Vein	Medium (1mm - 5mm)	White	Sugary	Galena	5	Patchy	Moderate	Sericite	Fracture-Fill	Weak	qtz vein material, 5% patchy galena + py + cpy 0.5-1%. Main vein shaft 1
E6096218	Shaft 1	E6096218	543559	5482634	398	2022-09-01	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	White	Sugary	Pyrite	1	Vein Fill	Moderate	Ankerite	Vein Halo	Moderate	5cm qtz-ank vn with strong def and alt along contacts, ori differs slightly from main Shaft 1 vn, this vn occurs north of main vn, 275/80
E6096219	Shaft 1	E6096219	543555	5482636	401	2022-09-01	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Green	Schistose	nil	nil	nil	Moderate	Sericite	Pervasive	Strong	Wall rock from shaft, shear material with moderate to strong pervasive sericite + fracfill ankerite. Null sulphides
E6096220	Shaft 1	E6096220	543555	5482631	399	2022-09-01	Percy Clark	Subcrop	Quartz Vein	Fine (<1mm)	Red-Brown	Schistose	Pyrite	2	Patchy	Strong	Sericite	Patchy	Strong	Shaft 1 sample, collected from west side of pit, 50-50 vn and shear material, strong ank-ser alt and strong def
E6096221	Shaft 1	E6096221	543555	5482635	406	2022-09-01	Tommy Clark	Subcrop	Mafic Volcanic	Fine (<1mm)	Red-Brown	Sheared	nil	nil	nil	Strong	Ankerite	Pervasive	Intense	Intensely deformed wall rock, shear material, null sulphides, strong pervasive ankerite alt.
E6096222	Lee Lake South Pit	E6096222	544962	5481270	396	2022-08-31	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	White	Laminated	Chalcopyrite	0.5	Blebbly	Moderate	Ankerite	Vein Halo	Moderate	5cm qtz-ank-chl-cpy vn ank alt occurring along margins, Trace VG
E6096223	Long Lake Shore	E6096223	543033	5481642	411	2022-09-02	Tommy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Green-Grey	Massive	nil	nil	nil	Weak	Chlorite	Pervasive	Moderate	platy green mafic volcanic. Weak pervasive chlorite + weak patchy silica. Null sulphides
E6096224	Long Lake Shore	E6096224	543032	5481641	370	2022-09-02	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Light Green-Grey	Massive	nil	nil	nil	Weak	Ankerite	Pervasive	Moderate	Mafic volcanic with 40% qtz vein material. Surficial ankerite + patchy carb + patchy silica alt. Null sulphides. Vein has a vuggy texture
E6096225	Long Lake Shore	E6096225	545063	5480917	367	2022-09-02	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Drk Green	Schistose	nil	nil	nil	Moderate	Chlorite	Pervasive	Strong	Sheared mafic volcanic off shoreline. Null sulphides.
E6096226	Long Lake Shore	E6096226	545095	5480965	367	2022-09-02	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Light Green-Grey	Massive	nil	nil	nil	Moderate	Silica	Patchy	Moderate	Green grey mafic volcanic sample along shoreline, weak schistose texture, mostly massive with patchy silica
E6096227	Long Lake Shore	E6096227	544899	5481114	370	2022-09-02	Percy Clark	Outcrop	Quartz Vein	Fine (<1mm)	Light Green-Grey	Massive	Pyrite	1	Disseminated	Moderate	Sericite	Patchy	Weak	Quartz vein sample with 50% vein material, 50% mafic volcanic, 1% disseminated pyrite within host rock. Sericite + patchy sil alt
E6096228	Long Lake Shore	E6096228	544350	5481217	370	2022-09-02	Percy Clark	Outcrop	Quartz Vein	Medium (1mm - 5mm)	White	Sugary	Pyrite	0.2	Disseminated	Weak	Chlorite	Patchy	Moderate	Sugary, vuggy qtz vein sample with 30% mafic volcanic. trace disseminated pyrite within vugs.
E6096229	Long Lake Shore	E6096229	544352	5481220	381	2022-09-02	Percy Clark	Outcrop	Quartz Vein	Medium (1mm - 5mm)	White	Vuggy	nil	nil	nil	Weak	Calcite	Patchy	Weak	Quartz vein sample with 15% mafic volcanic. Slight vuggy texture, null sulphides.
E6096230	Long Lake Shore	E6096230	544353	5481219	372	2022-09-02	Percy Clark	Outcrop	Mafic Volcanic	Fine (<1mm)	Green-Grey	Massive	nil	nil	nil	Moderate	Ankerite	Patchy	Moderate	Mafic volcanic sample with 30% qtz vein material. Qtz is vuggy while mafic is massive. Pink-white hues in quartz. Null sulphides



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PROJECT:

AGAT WORK ORDER: 22B942156

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 04, 2022

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### (200-) Sample Login Weight

DATE SAMPLED: Sep 06, 2022      DATE RECEIVED: Sep 07, 2022      DATE REPORTED: Oct 04, 2022      SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.005
E6096201 (4280350)		2.953
E6096202 (4280351)		1.239
E6096203 (4280352)		2.460
E6096204 (4280353)		0.820
E6096205 (4280354)		1.480
E6096206 (4280355)		1.300
E6096207 (4280356)		1.320
E6096208 (4280357)		2.260
E6096209 (4280358)		1.890
E6096210 (4280359)		1.060
E6096211 (4280360)		1.360
E6096212 (4280361)		2.000
E6096213 (4280362)		1.440
E6096214 (4280363)		1.070
E6096215 (4280364)		1.200
E6096216 (4280365)		0.950
E6096217 (4280366)		1.830
E6096218 (4280367)		1.220
E6096219 (4280368)		1.390
E6096220 (4280369)		1.710
E6096221 (4280370)		1.330
E6096222 (4280371)		0.900
E6096223 (4280372)		1.080
E6096224 (4280373)		1.760
E6096225 (4280374)		2.100
E6096226 (4280375)		2.200
E6096227 (4280376)		1.450
E6096228 (4280377)		1.330
E6096229 (4280378)		2.500
E6096230 (4280379)		2.940

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(200-) Sample Login Weight

DATE SAMPLED: Sep 06, 2022

DATE RECEIVED: Sep 07, 2022

DATE REPORTED: Oct 04, 2022

SAMPLE TYPE: Rock

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 1046 Gorham St, Thunder Bay, ON (unless marked by \*)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:





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CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 06, 2022	DATE RECEIVED: Sep 07, 2022							DATE REPORTED: Oct 04, 2022					SAMPLE TYPE: Rock		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
E6096201 (4280350)	<0.5	3.91	1	172	<0.5	<1	1.37	<0.5	18	3.0	144	5.1	1.06	12	
E6096202 (4280351)	<0.5	5.08	2	263	0.8	<1	0.16	<0.5	24	4.0	153	5.8	1.40	15	
E6096203 (4280352)	<0.5	2.53	<1	125	<0.5	<1	0.79	<0.5	11	2.4	135	2.6	0.94	8	
E6096204 (4280353)	<0.5	8.06	9	761	1.6	<1	0.24	<0.5	70	6.3	124	8.5	2.17	25	
E6096205 (4280354)	<0.5	4.85	4	202	0.6	<1	0.58	<0.5	19	4.1	120	22.1	1.33	14	
E6096206 (4280355)	0.7	2.79	<1	157	0.5	<1	1.01	<0.5	13	3.4	122	114	0.82	9	
E6096207 (4280356)	<0.5	8.25	3	441	1.2	<1	0.96	<0.5	34	6.2	93.7	17.2	1.89	26	
E6096208 (4280357)	1.1	3.60	4	215	0.8	<1	0.92	<0.5	18	9.5	131	24.4	1.05	12	
E6096209 (4280358)	<0.5	1.42	1	61	<0.5	<1	1.21	<0.5	6	2.3	122	2.8	0.54	<5	
E6096210 (4280359)	<0.5	0.53	1	17	<0.5	<1	1.37	<0.5	<1	6.2	219	2.0	1.21	<5	
E6096211 (4280360)	<0.5	2.24	<1	10	0.8	<1	6.09	<0.5	12	73.0	1110	118	7.32	6	
E6096212 (4280361)	<0.5	2.15	2	20	0.7	<1	7.31	<0.5	11	55.3	777	119	6.30	<5	
E6096213 (4280362)	<0.5	7.57	<1	152	1.1	<1	4.37	<0.5	17	26.5	149	49.9	4.48	17	
E6096214 (4280363)	<0.5	0.41	<1	81	3.8	<1	2.39	<0.5	7	14.1	253	56.2	1.69	<5	
E6096215 (4280364)	<0.5	2.51	1	528	1.6	<1	8.10	<0.5	6	40.0	660	121	4.72	8	
E6096216 (4280365)	<0.5	2.95	3	751	1.3	<1	1.02	<0.5	6	7.1	163	56.1	1.26	6	
E6096217 (4280366)	1.8	0.90	3	6210	<0.5	<1	0.29	<0.5	1	2.7	131	319	0.66	<5	
E6096218 (4280367)	<0.5	1.84	<1	185	0.7	<1	1.94	<0.5	16	8.0	258	10.6	2.00	7	
E6096219 (4280368)	<0.5	4.07	<1	243	0.8	<1	8.48	<0.5	12	50.1	641	158	6.74	9	
E6096220 (4280369)	<0.5	4.17	5	481	1.8	<1	7.20	<0.5	11	12.7	212	4.6	4.20	14	
E6096221 (4280370)	<0.5	11.7	2	1830	4.9	<1	0.19	<0.5	34	31.9	216	57.3	5.95	39	
E6096222 (4280371)	0.7	1.94	<1	179	<0.5	<1	0.55	<0.5	9	4.4	116	52.7	1.03	8	
E6096223 (4280372)	<0.5	8.66	<1	177	0.8	<1	1.70	<0.5	28	26.5	128	48.3	6.20	23	
E6096224 (4280373)	<0.5	4.52	<1	154	<0.5	<1	1.69	<0.5	15	16.3	295	22.5	3.79	12	
E6096225 (4280374)	<0.5	8.32	2	270	0.7	<1	4.60	<0.5	21	17.9	116	46.9	4.84	19	
E6096226 (4280375)	<0.5	8.42	<1	382	0.9	<1	3.48	<0.5	23	28.1	94.0	51.0	5.85	19	
E6096227 (4280376)	<0.5	4.97	2	341	1.0	<1	4.80	<0.5	10	13.3	206	29.1	4.44	17	
E6096228 (4280377)	<0.5	4.44	1	29	<0.5	<1	0.50	<0.5	10	5.9	162	6.6	1.55	8	
E6096229 (4280378)	<0.5	1.88	4	21	<0.5	<1	0.38	<0.5	11	4.1	149	16.8	1.15	<5	
E6096230 (4280379)	<0.5	7.39	3	54	0.6	<1	1.19	<0.5	18	5.6	83.4	55.6	1.62	11	

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## Certificate of Analysis

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ATTENTION TO: Garry Clark

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 06, 2022	DATE RECEIVED: Sep 07, 2022					DATE REPORTED: Oct 04, 2022					SAMPLE TYPE: Rock				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.01	1	
E6096201 (4280350)	<1	0.62	9	3	0.23	228	2.4	1.88	8.3	245	3	17	<0.01	2	
E6096202 (4280351)	<1	0.95	12	3	0.32	182	2.1	2.07	10.7	370	1	22	<0.01	3	
E6096203 (4280352)	<1	0.43	5	2	0.13	121	3.3	1.00	8.0	160	2	11	<0.01	<1	
E6096204 (4280353)	<1	1.52	36	2	0.20	326	1.2	4.20	8.8	759	2	69	0.48	3	
E6096205 (4280354)	<1	0.71	9	2	0.18	168	2.6	2.31	10.0	209	<1	17	0.02	2	
E6096206 (4280355)	<1	0.53	6	1	0.09	104	2.1	1.04	7.4	135	9	13	0.04	2	
E6096207 (4280356)	<1	1.48	18	4	0.34	234	1.2	3.66	11.5	477	<1	33	<0.01	3	
E6096208 (4280357)	<1	0.70	9	1	0.12	99	2.7	1.23	10.0	162	23	17	0.17	1	
E6096209 (4280358)	<1	0.21	3	<1	0.06	95	2.1	0.68	5.7	78	<1	<10	0.03	<1	
E6096210 (4280359)	<1	<0.01	<2	2	0.47	272	2.8	0.02	16.2	18	<1	<10	<0.01	1	
E6096211 (4280360)	<1	<0.01	3	2	8.87	1100	<0.5	<0.01	796	208	<1	<10	<0.01	3	
E6096212 (4280361)	<1	<0.01	3	2	6.80	1830	<0.5	0.01	533	262	<1	<10	0.03	2	
E6096213 (4280362)	<1	0.83	6	20	1.95	923	<0.5	2.51	68.6	549	<1	13	<0.01	3	
E6096214 (4280363)	<1	0.15	3	<1	0.91	333	4.0	0.04	85.1	212	58	<10	0.16	1	
E6096215 (4280364)	<1	1.04	<2	2	3.17	949	3.2	0.14	326	84	24	<10	0.40	3	
E6096216 (4280365)	<1	1.01	2	2	0.18	177	38.3	0.25	22.0	453	912	<10	0.09	1	
E6096217 (4280366)	2	0.33	<2	<1	0.08	48	8.7	0.07	25.3	122	6010	<10	0.37	1	
E6096218 (4280367)	<1	0.68	7	2	0.19	424	3.6	0.13	36.9	419	126	16	0.04	1	
E6096219 (4280368)	<1	0.99	4	17	4.61	1420	<0.5	0.12	500	300	7	<10	0.01	3	
E6096220 (4280369)	<1	1.68	4	2	1.58	936	56.0	0.25	38.0	414	6	<10	0.02	3	
E6096221 (4280370)	<1	4.75	12	5	0.27	734	2.0	0.65	84.3	491	7	26	0.05	3	
E6096222 (4280371)	<1	0.55	4	<1	0.07	221	2.0	0.40	8.0	89	12	<10	0.05	2	
E6096223 (4280372)	<1	0.64	12	13	2.50	666	<0.5	2.86	73.4	501	<1	23	<0.01	5	
E6096224 (4280373)	<1	0.49	6	8	1.40	607	1.3	0.89	42.6	265	<1	11	<0.01	3	
E6096225 (4280374)	<1	0.92	9	17	2.38	745	<0.5	1.96	72.9	473	<1	17	0.14	5	
E6096226 (4280375)	<1	1.10	10	27	3.01	871	<0.5	1.75	66.5	523	<1	18	<0.01	6	
E6096227 (4280376)	<1	0.30	4	6	1.09	643	1.0	0.58	45.2	164	<1	<10	<0.01	3	
E6096228 (4280377)	<1	0.02	3	2	0.46	256	1.7	3.17	11.9	296	<1	10	<0.01	<1	
E6096229 (4280378)	<1	0.02	4	1	0.33	181	2.7	1.18	9.1	227	<1	11	<0.01	1	
E6096230 (4280379)	<1	0.04	8	2	0.43	270	0.9	5.52	8.0	521	<1	14	<0.01	2	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 06, 2022	DATE RECEIVED: Sep 07, 2022					DATE REPORTED: Oct 04, 2022					SAMPLE TYPE: Rock				
Analyte: Unit: RDL:	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	
Sample ID (AGAT ID)	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5	
E6096201 (4280350)	2	<10	<5	103	<10	<10	<5	0.05	<5	<5	18.2	<1	2	25.9	
E6096202 (4280351)	2	<10	<5	84	<10	<10	<5	0.11	<5	<5	26.1	<1	2	46.5	
E6096203 (4280352)	1	<10	<5	64	<10	<10	<5	0.05	<5	<5	13.8	<1	1	23.5	
E6096204 (4280353)	4	<10	<5	221	<10	<10	11	0.11	<5	<5	36.2	2	6	35.7	
E6096205 (4280354)	2	<10	<5	82	<10	<10	<5	0.07	<5	<5	22.9	<1	2	35.5	
E6096206 (4280355)	1	<10	<5	75	<10	<10	<5	0.05	<5	<5	16.9	<1	1	15.0	
E6096207 (4280356)	4	<10	<5	146	<10	<10	<5	0.12	<5	<5	37.6	<1	3	65.8	
E6096208 (4280357)	2	<10	<5	91	<10	<10	<5	0.08	<5	<5	23.0	<1	2	22.9	
E6096209 (4280358)	<1	<10	<5	54	<10	<10	<5	0.02	<5	<5	8.2	<1	2	9.2	
E6096210 (4280359)	<1	<10	<5	20	<10	<10	<5	<0.01	<5	<5	17.7	<1	<1	16.5	
E6096211 (4280360)	18	<10	<5	228	<10	<10	<5	0.12	<5	<5	129	<1	6	76.2	
E6096212 (4280361)	15	<10	<5	242	<10	<10	<5	0.14	<5	<5	121	2	5	71.8	
E6096213 (4280362)	20	<10	<5	74	<10	<10	<5	0.37	<5	<5	162	<1	13	64.7	
E6096214 (4280363)	3	<10	<5	55	<10	<10	<5	0.03	<5	<5	20.3	3	3	20.2	
E6096215 (4280364)	12	<10	<5	195	<10	<10	<5	0.10	<5	<5	94.6	3	6	68.1	
E6096216 (4280365)	3	<10	<5	50	<10	<10	<5	0.09	<5	<5	35.4	5	3	19.4	
E6096217 (4280366)	<1	15	<5	68	<10	<10	<5	0.02	<5	<5	25.3	1	<1	5.9	
E6096218 (4280367)	4	<10	<5	41	<10	<10	<5	0.06	<5	<5	54.4	2	4	27.7	
E6096219 (4280368)	18	<10	<5	168	<10	<10	<5	0.14	<5	<5	131	1	7	127	
E6096220 (4280369)	9	<10	<5	143	<10	<10	<5	0.11	<5	<5	76.7	4	5	61.0	
E6096221 (4280370)	21	<10	<5	89	<10	<10	<5	0.26	<5	<5	273	4	11	72.0	
E6096222 (4280371)	1	<10	<5	44	<10	<10	<5	0.04	<5	<5	16.8	<1	1	23.7	
E6096223 (4280372)	19	<10	<5	87	<10	<10	<5	0.19	<5	<5	175	<1	8	103	
E6096224 (4280373)	10	<10	<5	73	<10	<10	<5	0.06	<5	<5	97.9	<1	4	60.1	
E6096225 (4280374)	16	<10	<5	155	<10	<10	<5	0.18	<5	<5	122	<1	7	78.2	
E6096226 (4280375)	20	<10	<5	136	<10	<10	<5	0.18	<5	<5	177	<1	7	83.1	
E6096227 (4280376)	13	<10	<5	418	<10	<10	<5	0.32	<5	<5	156	<1	7	68.1	
E6096228 (4280377)	4	<10	<5	41	<10	<10	<5	0.12	<5	<5	42.5	<1	4	25.6	
E6096229 (4280378)	2	<10	<5	16	<10	<10	<5	0.04	<5	<5	23.6	<1	2	14.3	
E6096230 (4280379)	6	<10	<5	60	<10	<10	<5	0.15	<5	<5	43.3	<1	6	24.0	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 06, 2022      DATE RECEIVED: Sep 07, 2022      DATE REPORTED: Oct 04, 2022      SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
E6096201 (4280350)				60
E6096202 (4280351)				89
E6096203 (4280352)				42
E6096204 (4280353)				176
E6096205 (4280354)				73
E6096206 (4280355)				48
E6096207 (4280356)				127
E6096208 (4280357)				65
E6096209 (4280358)				20
E6096210 (4280359)				<5
E6096211 (4280360)				25
E6096212 (4280361)				33
E6096213 (4280362)				80
E6096214 (4280363)				17
E6096215 (4280364)				36
E6096216 (4280365)				27
E6096217 (4280366)				7
E6096218 (4280367)				21
E6096219 (4280368)				53
E6096220 (4280369)				44
E6096221 (4280370)				153
E6096222 (4280371)				29
E6096223 (4280372)				99
E6096224 (4280373)				49
E6096225 (4280374)				110
E6096226 (4280375)				92
E6096227 (4280376)				16
E6096228 (4280377)				62
E6096229 (4280378)				31
E6096230 (4280379)				116

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 06, 2022

DATE RECEIVED: Sep 07, 2022

DATE REPORTED: Oct 04, 2022

SAMPLE TYPE: Rock

Comments: RDL - Reported Detection Limit

4280350-4280379 As, Sb values may be low due to digestion losses.

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Sep 06, 2022	DATE RECEIVED: Sep 07, 2022	DATE REPORTED: Oct 04, 2022	SAMPLE TYPE: Rock
Analyte: Au	Unit: ppm	RDL: 0.002	
Sample ID (AGAT ID)			
E6096201 (4280350)	<0.002		
E6096202 (4280351)	<0.002		
E6096203 (4280352)	<0.002		
E6096204 (4280353)	0.078		
E6096205 (4280354)	0.064		
E6096206 (4280355)	8.62		
E6096207 (4280356)	0.004		
E6096208 (4280357)	>10.0		
E6096209 (4280358)	0.901		
E6096210 (4280359)	0.017		
E6096211 (4280360)	<0.002		
E6096212 (4280361)	0.010		
E6096213 (4280362)	<0.002		
E6096214 (4280363)	1.36		
E6096215 (4280364)	0.515		
E6096216 (4280365)	1.76		
E6096217 (4280366)	5.90		
E6096218 (4280367)	0.752		
E6096219 (4280368)	0.005		
E6096220 (4280369)	0.012		
E6096221 (4280370)	0.096		
E6096222 (4280371)	>10.0		
E6096223 (4280372)	<0.002		
E6096224 (4280373)	0.008		
E6096225 (4280374)	0.004		
E6096226 (4280375)	0.003		
E6096227 (4280376)	0.005		
E6096228 (4280377)	0.002		
E6096229 (4280378)	0.004		
E6096230 (4280379)	0.005		

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Sep 06, 2022

DATE RECEIVED: Sep 07, 2022

DATE REPORTED: Oct 04, 2022

SAMPLE TYPE: Rock

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 1046 Gorham St, Thunder Bay, ON (unless marked by \*)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

### (202-564) Fire Assay - Au Ore Grade, Gravimetric finish (50g charge)

DATE SAMPLED: Sep 06, 2022

DATE RECEIVED: Sep 07, 2022

DATE REPORTED: Oct 04, 2022

SAMPLE TYPE: Rock

Analyte:	Au-Grav
Unit:	g/t
RDL:	0.5
Sample ID (AGAT ID)	
E6096206 (4280355)	9.45
E6096208 (4280357)	14.3
E6096217 (4280366)	5.81
E6096222 (4280371)	11.1

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 1046 Gorham St, Thunder Bay, ON (unless marked by \*)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 06, 2022

DATE RECEIVED: Sep 07, 2022

DATE REPORTED: Oct 04, 2022

SAMPLE TYPE: Rock

Analyte: Crush-Pass  
%

Unit: %

Sample ID (AGAT ID) RDL: 0.01

E6096201 (4280350) 83.03

E6096218 (4280367) 83.82

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 1046 Gorham St, Thunder Bay, ON (unless marked by \*)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 22B942156

PROJECT:

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

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 06, 2022

DATE RECEIVED: Sep 07, 2022

DATE REPORTED: Oct 04, 2022

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte: Pul-Pass %	Unit: %	RDL: 0.01
E6096201 (4280350)			94
E6096202 (4280351)			94

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 1046 Gorham St, Thunder Bay, ON (unless marked by \*)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	4280351	< 0.5	< 0.5	0.0%	4280365	< 0.5	< 0.5	0.0%	4280375	< 0.5	< 0.5	0.0%				
Al	4280351	5.08	4.94	2.8%	4280365	2.95	3.10	5.0%	4280375	8.42	8.54	1.4%				
As	4280351	2	2	0.0%	4280365	3	3	0.0%	4280375	< 1	1					
Ba	4280351	263	262	0.4%	4280365	751	790	5.1%	4280375	382	387	1.3%				
Be	4280351	0.8	0.8	0.0%	4280365	1.3	1.3	0.0%	4280375	0.9	0.9	0.0%				
Bi	4280351	< 1	< 1	0.0%	4280365	< 1	< 1	0.0%	4280375	< 1	< 1	0.0%				
Ca	4280351	0.16	0.16	0.0%	4280365	1.02	1.07	4.8%	4280375	3.48	3.43	1.4%				
Cd	4280351	< 0.5	< 0.5	0.0%	4280365	< 0.5	< 0.5	0.0%	4280375	< 0.5	< 0.5	0.0%				
Ce	4280351	24	22	8.7%	4280365	6	6	0.0%	4280375	23	24	4.3%				
Co	4280351	4.02	4.21	4.6%	4280365	7.1	7.1	0.0%	4280375	28.1	28.8	2.5%				
Cr	4280351	153	207		4280365	163	162	0.6%	4280375	94.0	110	15.7%				
Cu	4280351	5.82	5.97	2.5%	4280365	56.1	58.0	3.3%	4280375	51.0	55.5	8.5%				
Fe	4280351	1.40	1.44	2.8%	4280365	1.26	1.32	4.7%	4280375	5.85	5.82	0.5%				
Ga	4280351	15	15	0.0%	4280365	6	7	15.4%	4280375	19	20	5.1%				
In	4280351	< 1	< 1	0.0%	4280365	< 1	< 1	0.0%	4280375	< 1	< 1	0.0%				
K	4280351	0.947	0.923	2.6%	4280365	1.01	1.06	4.8%	4280375	1.10	1.10	0.0%				
La	4280351	12	10	18.2%	4280365	2	2	0.0%	4280375	10	10	0.0%				
Li	4280351	3	3	0.0%	4280365	2	2	0.0%	4280375	27	28	3.6%				
Mg	4280351	0.32	0.32	0.0%	4280365	0.180	0.188	4.3%	4280375	3.01	3.02	0.3%				
Mn	4280351	182	180	1.1%	4280365	177	185	4.4%	4280375	871	873	0.2%				
Mo	4280351	2.09	2.26	7.8%	4280365	38.3	39.8	3.8%	4280375	< 0.5	< 0.5	0.0%				
Na	4280351	2.07	2.04	1.5%	4280365	0.254	0.267	5.0%	4280375	1.75	1.79	2.3%				
Ni	4280351	10.7	11.5	7.2%	4280365	22.0	22.8	3.6%	4280375	66.5	66.9	0.6%				
P	4280351	370	378	2.1%	4280365	453	436	3.8%	4280375	523	515	1.5%				
Pb	4280351	1	1	0.0%	4280365	912	931	2.1%	4280375	< 1	< 1	0.0%				
Rb	4280351	22	19	14.6%	4280365	< 10	< 10	0.0%	4280375	18	21	15.4%				
S	4280351	< 0.01	< 0.01	0.0%	4280365	0.09	0.10	10.5%	4280375	< 0.01	< 0.01	0.0%				
Sb	4280351	3	2		4280365	1	< 1		4280375	6	3					
Sc	4280351	2	2	0.0%	4280365	3	3	0.0%	4280375	20	21	4.9%				
Se	4280351	< 10	< 10	0.0%	4280365	< 10	< 10	0.0%	4280375	< 10	< 10	0.0%				
Sn	4280351	< 5	< 5	0.0%	4280365	< 5	< 5	0.0%	4280375	< 5	< 5	0.0%				



CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

ATTENTION TO: Garry Clark

Sr	4280351	84	84	0.0%	4280365	50	53	5.8%	4280375	136	138	1.5%				
Ta	4280351	< 10	< 10	0.0%	4280365	< 10	< 10	0.0%	4280375	< 10	< 10	0.0%				
Te	4280351	< 10	< 10	0.0%	4280365	< 10	< 10	0.0%	4280375	< 10	< 10	0.0%				
Th	4280351	< 5	< 5	0.0%	4280365	< 5	< 5	0.0%	4280375	< 5	< 5	0.0%				
Ti	4280351	0.106	0.100	5.8%	4280365	0.09	0.09	0.0%	4280375	0.183	0.174	5.0%				
Tl	4280351	< 5	< 5	0.0%	4280365	< 5	< 5	0.0%	4280375	< 5	< 5	0.0%				
U	4280351	< 5	< 5	0.0%	4280365	< 5	< 5	0.0%	4280375	< 5	< 5	0.0%				
V	4280351	26.1	25.7	1.5%	4280365	35.4	36.4	2.8%	4280375	177	181	2.2%				
W	4280351	< 1	< 1	0.0%	4280365	5	6	18.2%	4280375	< 1	< 1	0.0%				
Y	4280351	2	2	0.0%	4280365	3	3	0.0%	4280375	7	8	13.3%				
Zn	4280351	46.5	45.9	1.3%	4280365	19.4	16.6	15.6%	4280375	83.1	81.4	2.1%				
Zr	4280351	89	86	3.4%	4280365	27	28	3.6%	4280375	92	95	3.2%				

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	4280351	<0.002	<0.002	0.0%	4280365	1.76	1.46	18.6%	4280375	0.003	0.003	16.9%				



CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

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**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.Till-2)				CRM #2 (ref.GTS-2a)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	8.47	8.29	98%		6.96	7.14	103%									
As	26	27	102%		124	122	98%									
Ba	540	526	97%		186	188	101%									
Be	4.0	3.9	99%													
Ca	0.907	0.852	94%		4.01	3.79	95%									
Ce	98	97	99%		24	22	92%									
Co	15	13	83%		22.1	20.1	91%									
Cr	60.3	59.3	98%													
Cu	150	149	100%		88.6	90.7	102%									
Fe	3.77	3.52	93%		7.56	6.92	92%									
K					2.021	2.152	107%									
La	44	42	95%													
Li	47	47	100%													
Mg	1.10	1.06	96%		2.412	2.428	101%									
Mn	780	731	94%		1510	1432	95%									
Mo	14	13	93%													
Na	1.624	1.702	105%		0.617	0.644	104%									
Ni	32	32	99%		77.1	71	92%									
P	750	737	98%		892	848	95%									
Pb	31	25	82%													
S					0.348	0.328	94%									
Sc	12	12	99%													
Sr	144	145	101%		92.8	87.5	94%									
Ti	0.53	0.46	86%													
V	77	80	104%													
Zn	130	122	94%		208	209	100%									

**(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)**

Parameter	CRM #1 (ref.GSP5H)				CRM #2 (ref.GS48)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	0.50	0.45			3.46	3.67										



## Method Summary

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

AGAT WORK ORDER: 22B942156

PROJECT:

ATTENTION TO: Garry Clark

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Al	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
As	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ba	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Be	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Bi	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ca	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cd	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ce	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Co	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cu	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Fe	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ga	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
In	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
K	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
La	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Li	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mg	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mo	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Na	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ni	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
P	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Pb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Rb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
S	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES



## Method Summary

CLIENT NAME: CLARK EXPLORATION CONSULTING INC.

AGAT WORK ORDER: 22B942156

PROJECT:

ATTENTION TO: Garry Clark

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sc	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Se	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ta	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Te	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Th	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ti	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Tl	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
U	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
V	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
W	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Y	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Au	MIN-12019	BUGBEE, E: A Textbook of Fire Assaying	AA
Au-Grav	MIN-12004	BUGBEE, E: A Textbook of Fire Assaying	GRAVIMETRIC
Crush-Pass %			BALANCE
Pul-Pass %			BALANCE

## **Santa Maria Field Notes**

Geo: Thomas Clark

Geo: Percy Clark

### **August 30<sup>th</sup> 2022**

Clear skies, windy, 25 deg.

Leave Clark office shortly after 8am- Arrive at Sandy Point Camp around 11am. Unpacked and took ATVs out to scout "Camp 33 Rd".

First 3km of Camp 33 Rd logging road quality (gravel, sand mix 1.5 lanes). Road purposely removed at first river crossing. ATV trail after that, severely overgrown with evidence of historic ATV tracks and chainsaw work (2-3 years?).

Took boat out up Long Lake- roughly 8.5km no favourable trails or portages seen. Docking spots picked out for mapping the next day. Water was rough due to wind. 4 foot swells with whitecaps.

Groceries in Dryden around 4pm- flat tire shortly after turning on to Sandy Point road (2km mark).

### **August 31<sup>st</sup> 2022**

Partly Cloudy, no wind, 25 deg

Took boat up to bay on south side of the property, landed boat near interpreted location of Lee Lake South Occurrence (LLSO). Hiked 500 m NW trying to locate LLSO. Hiked along large E-W trending ridge with sparse tree coverage. Area is predominantly old growth with a mix of mature conifers and deciduous trees. Mature cedar stands on north and south sides of ridge.

Camp 33 rd intersected multiple times on hike, trail is still recognizable and visible but overgrown with alders.

Ridge is geologically homogenous made up almost exclusively of a mafic to intermediate volcanic unit displaying weak to moderate foliation trending E-W to slightly NE-SW. Pervasive chlorite alteration with moderate silica alteration observed to the far NW of ridge.

Lee Lake South Pit located 140 m of the lake shore and 30 m west of the historic trail (Camp 33 rd). AMIS data was accurate, and pit occurred less than 10m from point.

Pit appears to target a moderately altered and deformed volcanic unit with ankerite alteration intensifying near quartz veins. Veins seen 50 m to the west of the pit but are more irregular than veins seen in the pit. Veins to the west seen more irregular with one regular vein measuring 275/70. 2-3 cm wide with weak ank halos along margins rare py.

Vein observed near top of pit measured 300/80 4-5 cm wide with laminations likely made up of tor/bt/chl. Cpy blebs seen in vein with fg py stingers along margins with host and along laminations. Visible gold flecks observed near margin of vein.

Pink-red felsic unit observed in blast rock as well, likely the QFP noted in historic reporting.



Blast rock samples collected from LL pit. Judging from blast rock, vein may have been as wide as 20-30 cm.

### **September 1<sup>st</sup> 2022**

Partly cloudy, 14-28 degrees, Temperature ended up being higher than forecasted (30-35 deg) light wind

Left camp before 8 am- plan was to visit Shaft 1.

Landed the boat on the east side of the bay and walked north over the ridge to meet up with Camp 33 rd. Traveled 1.2 km along Camp 33 road. Road was severely overgrown throughout but seemed to be built up with backfill. Road was washed out and impassable at the swamp 200 m south of the shaft 1 area. Was passed by walking precariously over beaver dam and bush-whacking west of the road. An old steel culvert was seen protruding from washed out road.

Shaft 1 is roughly 31 m north of Camp 33 road. It is more of a blast pit than a shaft (5 m wide x 4 m deep).

Pit targets 50-100 cm wide qtz-ank-ser-gal-cpy vn, malachite observed on weathered surfaces. 310/83. Upper and lower contacts of vein are extremely sheared. Shear material extends from 30 cm on south side to roughly 3 m on north side. There are also lenses of sheared material within main vein. Smaller veins within sheared material to the north trending 275/80. Vein has similar assemblage to main vein without abundant sulphides. Both the main and secondary veins are crystalline and appear to contain some albite.

Geology seen in areas surrounding both Shaft 1 is homogeneous. Mafic to intermediate volcanics with no mineralization observed- rare qtz-carb stringer veins.

### **September 2<sup>nd</sup> 2022**

Clear skies, 28-30 deg, no wind

Boat sampling in morning. Traveled to south-east of property. Bull moose crossing river. Sampled outcrop on claim 590456. Long Lake River doesn't intercept property anywhere else. Returned to bay on south end of the property and collected samples on shoreline. All samples from the day Mafic-intermediate volcanic unit with nil sulphides. Consistent with host rock seen on ridge earlier in the program. Samples displayed rare irregular qtz veins but likely not associated with orogenic event (no alteration, nil sulphides).

Packed up and left camp just after noon to head back to Thunder Bay.