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Summary Report for 2020

Fieldwork program of the Vixen Property



Casummit Lake Area, Little Shabumeni Lake Area, Goodall, Dent, McNaughton &
Honeywell Townships

52N07 / 52N08 / 52N02

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A. PROGRAM OBJECTIVES & SUMMARY

This report documents a (13) day program of geological mapping, sampling and geophysical (rock and beep mat) work completed on the Vixen Property, which is comprised of three distinct claim blocks (North, West, and South) cumulatively referred to as Vixen Property situated in northwestern Ontario, Canada. All work was recorded in UTM NAD83 coordinate system Zone 15. Work was 100% funded by ALX Resources Corp. and carried out by Dahrouge Geological Consulting Ltd. Objectives of this program were as followed:

1. Evaluate existing Gold prospects on the property and identify and test prospects warranting further exploration.
2. Following up of a targets outlined by a Soil Gas Hydrocarbon (SGH) survey completed by the Company in 2019.
3. Map prospective areas including structural and lithological information to develop a geological framework.

The geological program mapping and evaluating confirmed the presence of Gold in historical showings and was successful in identifying new gold-bearing showings adding information to the current lithostructural model.

The 2020 field program was broken up into two Phases. Phase I fieldwork commenced on August 7th, 2020; however, was abruptly stopped after four (4) days on August 10th, 2020, due to a forest fire close to Red Lake which required the crew to evacuate the hotel. The field program (Phase II) was re-started on October 7th and concluded on October 11th, 2020. Exploration was conducted by helicopter, and eighteen traverses over historical showings and prospective areas dispersed between Vixen North, West and South. Care was taken to sample quartz veins, altered host rock, and unaltered host rock separately to identify the gold-bearing phase.

Geological mapping and prospecting were successful in relocating historic showings and trenches, confirming the presence of gold mineralization and discovering several new gold-bearing outcrops with up to 0.8 g/t Au.

B. INTRODUCTION

The three individual claim blocks Vixen North, Vixen West, and Vixen South claim blocks are located approximately 110 km, 80 km, and 90 km, respectively, east-northeast of Red Lake, Ontario and are

comprised of 201 contiguous mineral dispositions, totalling 40.60 km², 99 contiguous mineral dispositions totalling 20.02 km², and 199 contiguous mineral dispositions, respectively, totalling 40.10 km². Collectively, the Vixen Property includes 499 claims totalling 100.90 km² spread over three distinct claim blocks. The claims are 100% owned by ALX Resources Corp.

The Property is primarily underlain by interlayered horizons of mafic, intermediate, and to the south felsic metavolcanic rocks of Cycle II within the Uchi-Confederation Lakes greenstone belt. Based on historical exploration activities, the properties are considered prospective for orogenic gold, intrusion related Molybdenite and volcanogenic massive sulphide (VMS) hosted gold and base metals, which is already well-documented in the Red Lake area. This report details 2020 field work at the Vixen Property including revisiting historical work sites, prospecting, and soil geochemistry.

C. Location and Access

The distance and direction of the three Claim blocks is given relative to Red Lake, Vixen West approximately 80 km east-northeast, Vixen South 90 km east-northeast, and Vixen North 110 km northeast. Access to Vixen North, Vixen West, and the northeastern part of Vixen South are limited to float plane or helicopter, as there are no passible roads currently entering those areas. However, the southwestern part of Vixen South may be accessible by truck as it has been deforested by the logging industry. Crews accessed the Property in 2020 by AStar BA/B2 helicopter (Forest Helicopters Inc., Kenora) from the Red Lake airport. Dense forest vegetation hindered direct access, so landing zones were limited to bogs and river shores. Crews were then be picked up at the end of the day at a pre-determined location. The average travel time between Red Lake and the Property blocks is approximately 2 hours round-trip.

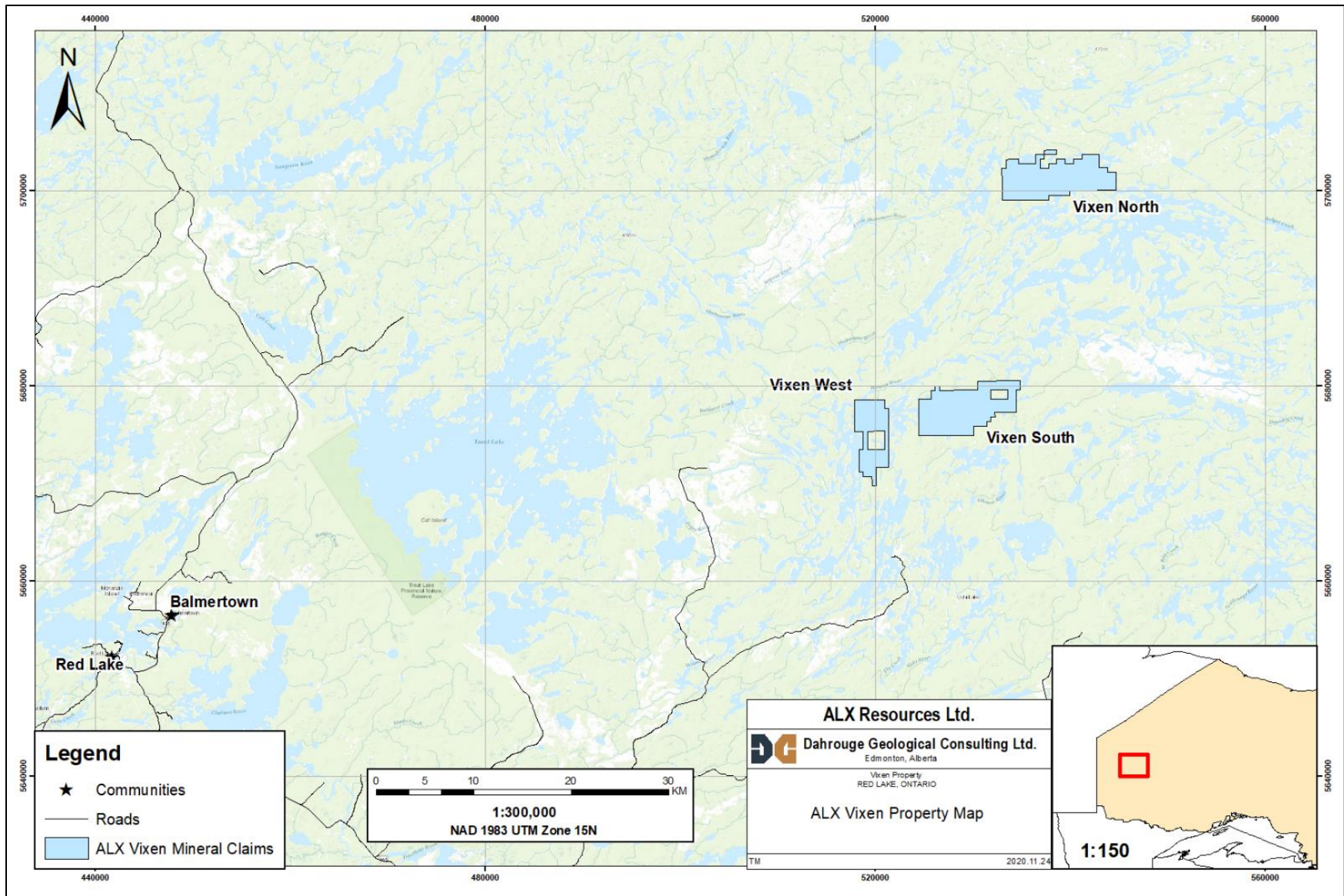


Figure 1. Location of the Vixen Property's three claim block

D. Claims and Land Status

As of the end of 2020 the Vixen Property consists of Vixen North, Vixen West and Vixen South which are comprised of 201 contiguous mineral dispositions, totalling 40.60 km², 99 contiguous mineral dispositions totalling 20.02 km², and 199 contiguous mineral dispositions, respectively, totalling 40.10 km². Collectively, the Vixen Property includes 499 claims totalling 100.90 km² spread over three distinct claim blocks. The claims are 100% owned by ALX Resources Corp. A list of the claims can be seen in Appendix 1 and maps of the claims are seen from figure 2 – 4.

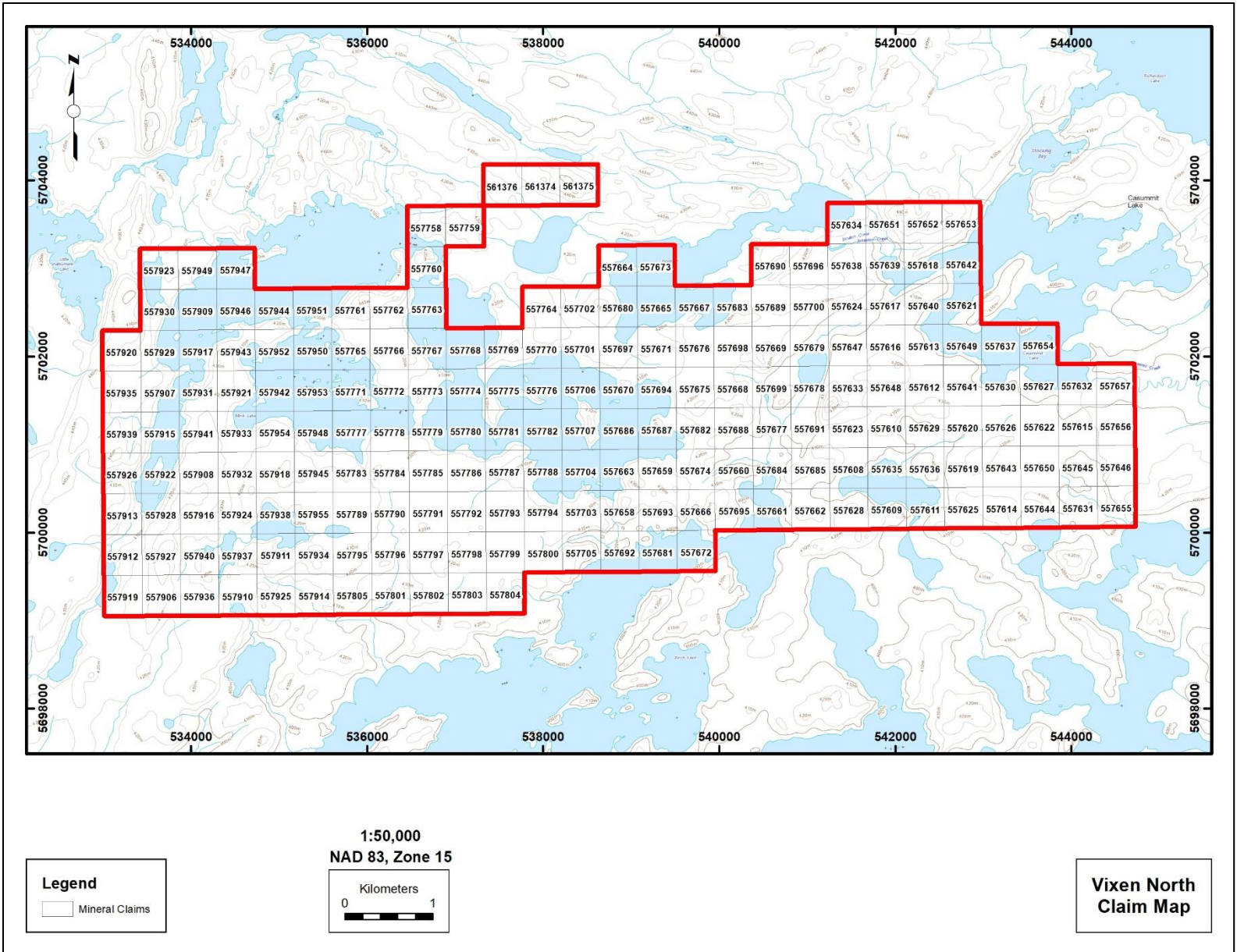


Figure 2. Vixen North Claims Map

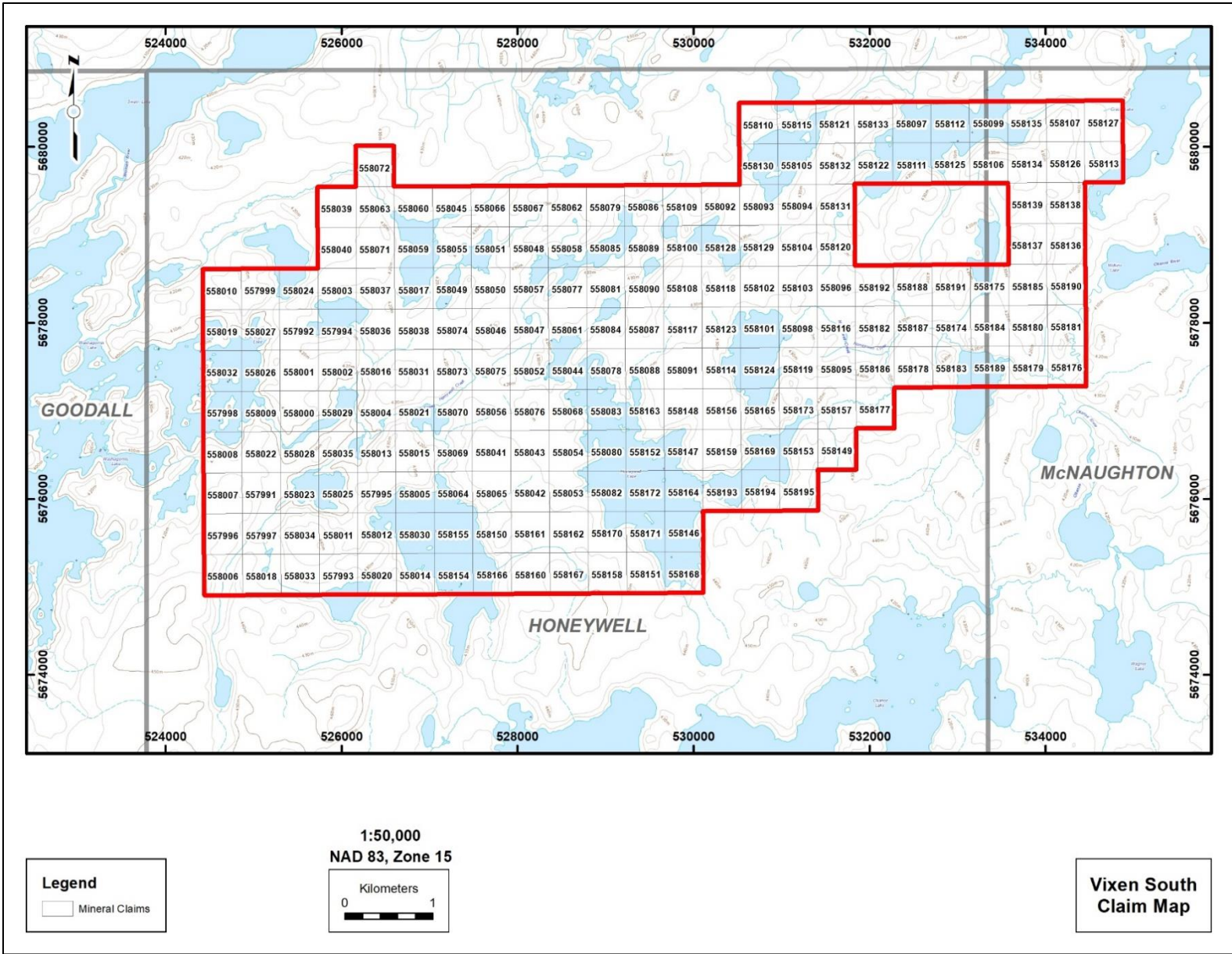


Figure 3. Vixen South Claims Map

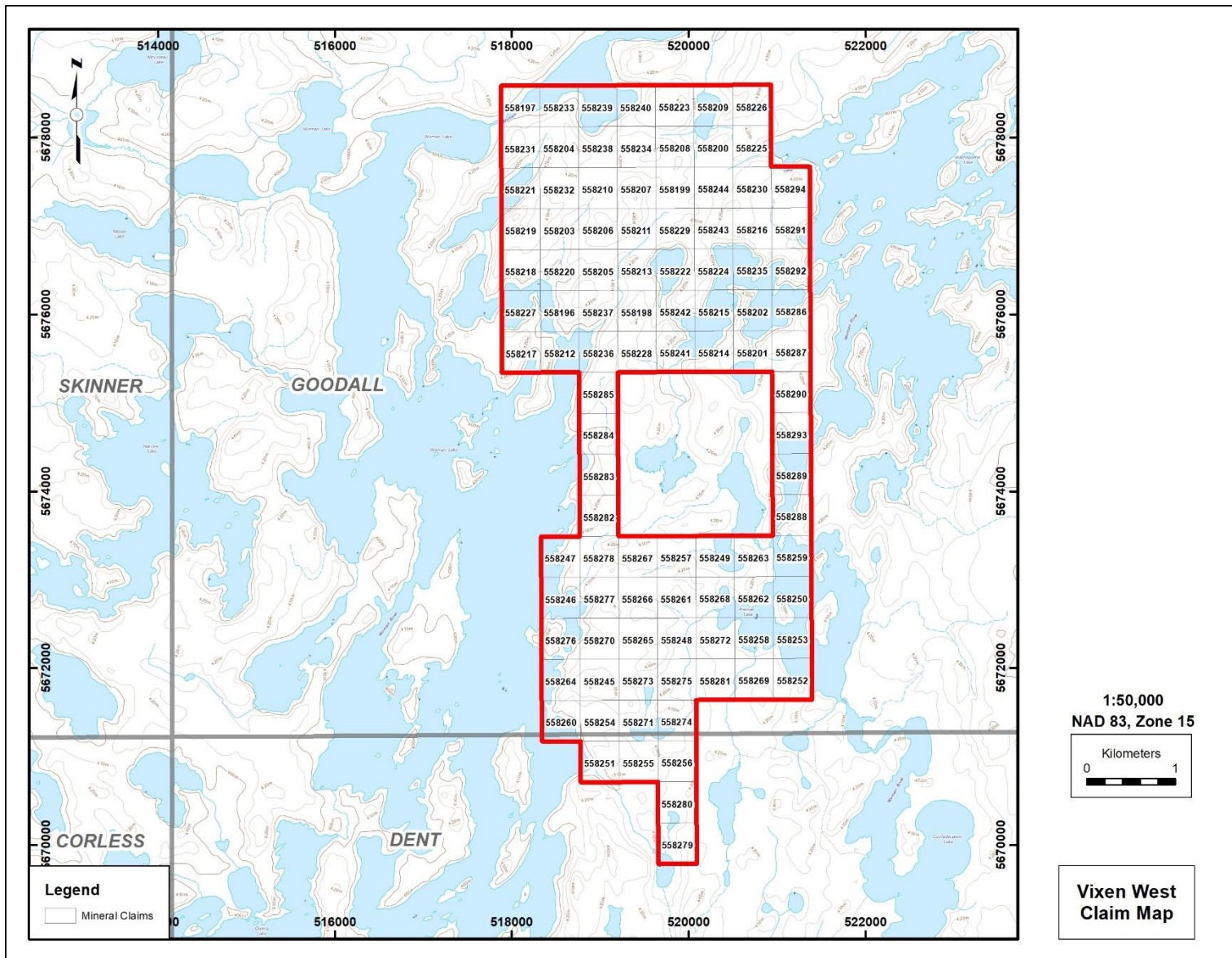


Figure 4. Vixen West Claims Map

E. HISTORY

E.1 Vixen North Property

1933 – ARV42 (Furse, Pt. V1, Page 35, Map No. 42d)

The report summarizes work done by an unknown developer south of Mink Lake (Figure 5). A quartz porphyry dike about 15 feet wide is described, with veins of quartz and small amounts of pyrite. Another vein of quartz is described as 3 to 10 feet wide, and contains variable amounts of siderite, pink calcite, pyrite and a trace of hematite. No results are summarized by the author of the report, though the quartz veining is intriguing and should be followed up.

1937 – Brengold – ARV46 (Horwood, Pt. VIII, Page 25-26, Map No. 46f)

Trenching of two pits and drilling of 3 drill holes are described in the summary report, located on the south shore of Casummit Lake (Figure 5). It notes that a quartz vein, up to 8 feet wide, and exposed up to 60 feet in strike. 5 samples were collected by the author of the report, *“indicated that the gold content was about 0.07 ounces per ton”. One sample assayed 0.278 ounces.”* The results of Brengold were known at the time, nor have since been recorded. The sampling of up to 0.278 oz/t converts to 9.53 g/t Au.

1949 – Floregold Red Lake Mines Ltd. – 52N08NW0062

Four holes (#7 to #10) were drilled on the eastern portion of the current Vixen North Property, west of Casummit Lake by Floregold Red Lake Mines Ltd. In 1949 (Figure 5). The precise location of the holes is not known, as the reference maps are not of good quality. The logs have recorded gold analysis in the form of “GOLD \$” of up to 4.20 over a width of 3 (ft?). Presuming a conversion of 1 troy ounce/ton = \$35, a reported value of \$4.20 could equate to 0.12 oz/ton, or 4.11 g/t (assuming a Troy Ounce/Short Ton to Grams/Tonne conversion of 34.2857). Several samples in the same hole were reported, and averaged around \$1 gold, which converts to approximately 1 g/t Au. At the time, these grades would not have interested explorer, as the target was higher grade free gold, as opposed to larger tonnage deposits. Given the rock type noted of altered quartz porphyry, this historical work area may represent a compelling target for an Archean porphyry style deposit.

1969 – Can-Fer Exploration Syndicate – 52N08NW0071

Regional geological mapping was completed in the western portions of the current Vixen North Property. Detailed work consisted of 14 trenches in the “main showing” area, also known as the Mink Lake Mo Prospect (Figure 5). No sample results are reported, but mineralization is noted as *“pyrite, pyrrhotite, magnetite and molybdenite. The pyrite is found disseminated throughout both intrusive and extrusive rocks near the contacts and as euhedral cubes in the quartz stringers of the showing area. The pyrrhotite and magnetite appear to be restricted to the andesite but they also occur near the contact. Molybdenite occurs in quartz stringers and in the aplitic feldspar porphyry of the showing area.”*

1981 – Noranda Exploration Co. Ltd. – 52N08NW0080

Work by Noranda in 1981 consisted of property-scale mapping on a line-cut grid, and 5 drill holes on the Mink Lake Mo prospect (Figure 5). The drilling followed up on the Can-Fer trenching and mapping of the molybdenite occurrence. The report notes *“The molybdenite mineralization is quite widespread over the southern end of the pluton. The percentage of the mineral although is very low. The manner of occurrence on surface was found to change little with depth. The drilling done on the property in August of 1981 showed an erratic distribution of molybdenite-bearing quartz veinlets and carbonate zones down to the 90 meter mark. The nature of the sulphides, the mode of occurrence, the distribution of the mineralization as seen in the core is no different to that seen on surface. The tonnage of molybdenite-bearing rock is quite high. The average grade for the rock is quite low and quite uneconomical at this time.”*

The report does not report any analytical work for molybdenum, so it is un-clear what the “average grade” is.

1987 – Burrows and Spooner (1987)

In their paper, published in Economic Geology, titled **Generation of a Magmatic H₂O-CO₂ Fluid Enriched in Mo, Au, and W within an Archean Sodic Granodiorite Stock, Mink Lake, Northwestern Ontario**, Burrows and Spooner collected 9 samples from the 1,000 by 350m wide zone of mineralization (Mink Lake Mo prospect, Figure 5) that returned an average of 586 ppm Mo, and 0.14 g/t Au. The results are somewhat variable, but the low-grade gold mineralization represents a potentially intriguing target for detailed follow-up work.

1987-1988 – Esso Minerals Canada – 52N08NW0037

Line-cutting, magnetic surveying, soil sampling, prospecting and property-scale mapping was conducted on the central portion of the Vixen North Property. Four (4) notable samples were collected on the

property from the Wet Boot, 12N and one un-named area on the shore of Joneston Lake (Table 1, Figure 5).

1992 – MNDM (Parker and Atkinson) – OFR5835

The authors of the summary report describe work done by Dickenson Mines Ltd. In 1972, consisting of trenching and sampling. The company reported 8 samples from two trenches. The highest value was 0.23 oz/ton (7.54 g/t Au) over 1.5 feet.

Additionally, the authors summarize work done on the Mink Lake Mo prospect, noting that gold values range between 0.04 and 0.15 oz/ton (1.37 and 5.14 g/t Au).

1994 – MNDM (Beakhouse) – OFR5881

The author of this report described the work done by Brengold, and sampled one of the trenches north of the previously mentioned area of trenching and drilling (Figure 5), and returned 1.07 oz/ton (36.7 g/t Au) within a thin quartz vein.

1996-1997 – Murgor Resources – 52N08NW2002

Work consisted of regional scale prospecting/sampling, line-cutting and magnetic surveying on the western side of the current Vixen Lake North Property. Three (3) notable samples were collected over the Dickenson, 12N and one un-named area north of the Mink Lake Mo prospect (Table 1, Figure 5).

2002 – Fronteer Development Group – 52N08NW2014

Airborne geophysics (GeoTEM), soil sampling, rock sampling and regional prospecting was completed in 2002. 8 samples returned interesting results over the Wet Boot, 12N, 15E, Dickenson and two un-named areas on the shore of Joneston Lake (Table 1, Figure 5)

E.2 Vixen South Property

1968 – Long Lac Mineral Explorations Ltd. – 52N08SE0056

An airborne radiometric and magnetic survey was completed on the eastern half of the Vixen Lake South Property in 1968.

1969 – Vanco Exploration Ltd. – 52N07SE877

Regional mapping and ground magnetic surveying was completed at the western portion of the Vixen South Property. Two areas of interest were identified. One, at the south shore of the un-named lake at the NW corner of the claim block (Figure 6), where 4 samples were collected (271 to 274), but no results were reported in time. The other area, at the western claim block boundary (Figure 6) denotes the location of historical trenching, presumably by prior operators, with no samples collected.

1973 – St. Joseph Explorations Ltd. – 52N07SE9876

Two holes are reported at the south shore of the un-named lake at the NW corner of the claim block (Figure 6), where 4 samples were collected by Vanco in 1969.

1968 – Long Lac Mineral Explorations Ltd. – 52N08SE0056

An airborne radiometric and magnetic survey was completed on the eastern half of the Vixen Lake South Property in 1968.

1976 – Ronda Copper Mines – 52N07SE0090

The report describes 5 drill holes, one of them (hole #5) is located on southern shore of Grace Lake, at the NW corner of the Vixen South Property (Figure 6). No significant results are reported.

1999 – GSC Regional Till Sampling – OF3038

The Vixen Lake South Property is covered by the reconnaissance till geochemical sampling of the Red Lake/ Confederation Lake areas. The pristine gold grains are plotted on (Figure 6). 4 samples were collected on the property, with between 6 and 9 pristine gold grains.

2003 – Teck – 52N07SE2005

The work program was designed to follow up on the regional GSC till sampling, and consisted of airborne magnetic surveying, geological mapping and sampling and a limited rock and till geochemical survey. The work identified several high priority follow up targets based on high counts of pristine gold in tills, that are reported to be *“equal to greater than the gold-in-till anomalies associated with both the Madsen and Howey-Hasaga gold deposit areas in the main Red Lake mining camp”*.

E.3 Vixen West Property

1981 – Minorex Ltd. – 52N02NE0015

The report describes geological mapping, with nothing noteworthy on the property. No noteworthy results resulted from the work.

1987-1988 – Western Pacific Energy Corp. & Golden Bay Mining Exploration Inc.

52N07SE0091, 52N07SE0092, 52N07SE9868

Work between 1987 and 1988 consisted of prospecting, mapping, line-cutting, geophysical (IP) surveying and diamond drilling on the northern half of the current Vixen Lake West Property (Figure 7). Three (3) holes were drilled on the property with no noteworthy results. One anomalous gold sample was collected on the property (Sample 25376) and returned 3607 ppb Au, but the check sample returned below detection limit of less than 5 ppb. The difference between the original result and the repeat could be from either contamination in the lab or a nugget effect. Either way, the area could be followed up in the field.

1999 – GSC Regional Till Sampling – OF3038

The Vixen Lake West Property is covered by the reconnaissance till geochemical sampling of the Red Lake/Confederation Lake areas. The pristine gold grains are plotted on (Figure 7). 5 samples were collected on the property, with between 0 and 1 pristine gold grains.

Table 1. Historical Sample Summary

Report	SPL_ID	Au (g/t)	Prospect Target	Rock Description
52N08NW0037	87JG-199	5.49	Wet Boot	
52N08NW0037	87JG-121	0.34	-	
52N08NW0037	32946	2.06	12N	
52N08NW0037	87JG-140	0.34	15E	
52N08NW2014	64968	1.74	Wet Boot	Iron Formation
52N08NW2014	64969	22.73	Wet Boot	Iron Formation (oxidized)
52N08NW2014	64972	5.88	Wet Boot	magnetite-pyrite
52N08NW2014	64852	0.77	-	quartz vein
52N08NW2014	64856	2.85	-	quartz vein
52N08NW2014	64973	0.15	15E	quartz vein
52N08NW2014	64979	13.97	12N	quartz vein
52N08NW2014	64984	1.29	Dickenson	quartz vein
OFR5835		7.54	Dickenson	quartz vein
OFR5881		36.7	Brengold	quartz vein
ARV46		9.53	Brengold	quartz vein
52N08NW2002	33406	7.72	Dickenson	quartz vein hosted in silicified rock
52N08NW2002	33403	1.03	-	quartz vein
52N08NW2002	33409	0.34	-	quartz vein
52N07SE0092	25376	3.61	-	

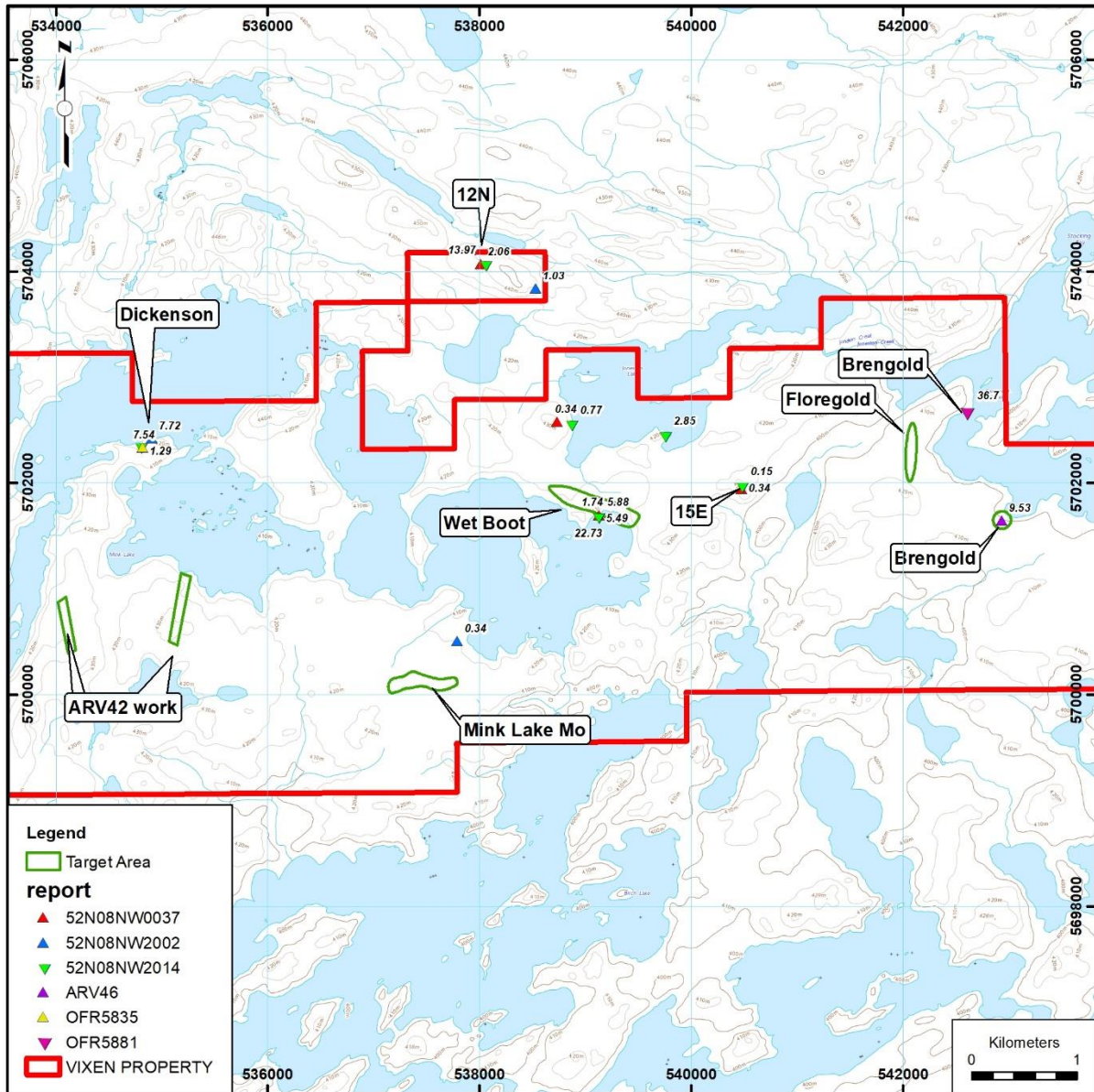


Figure 5. Historical Work Summary, Vixen North

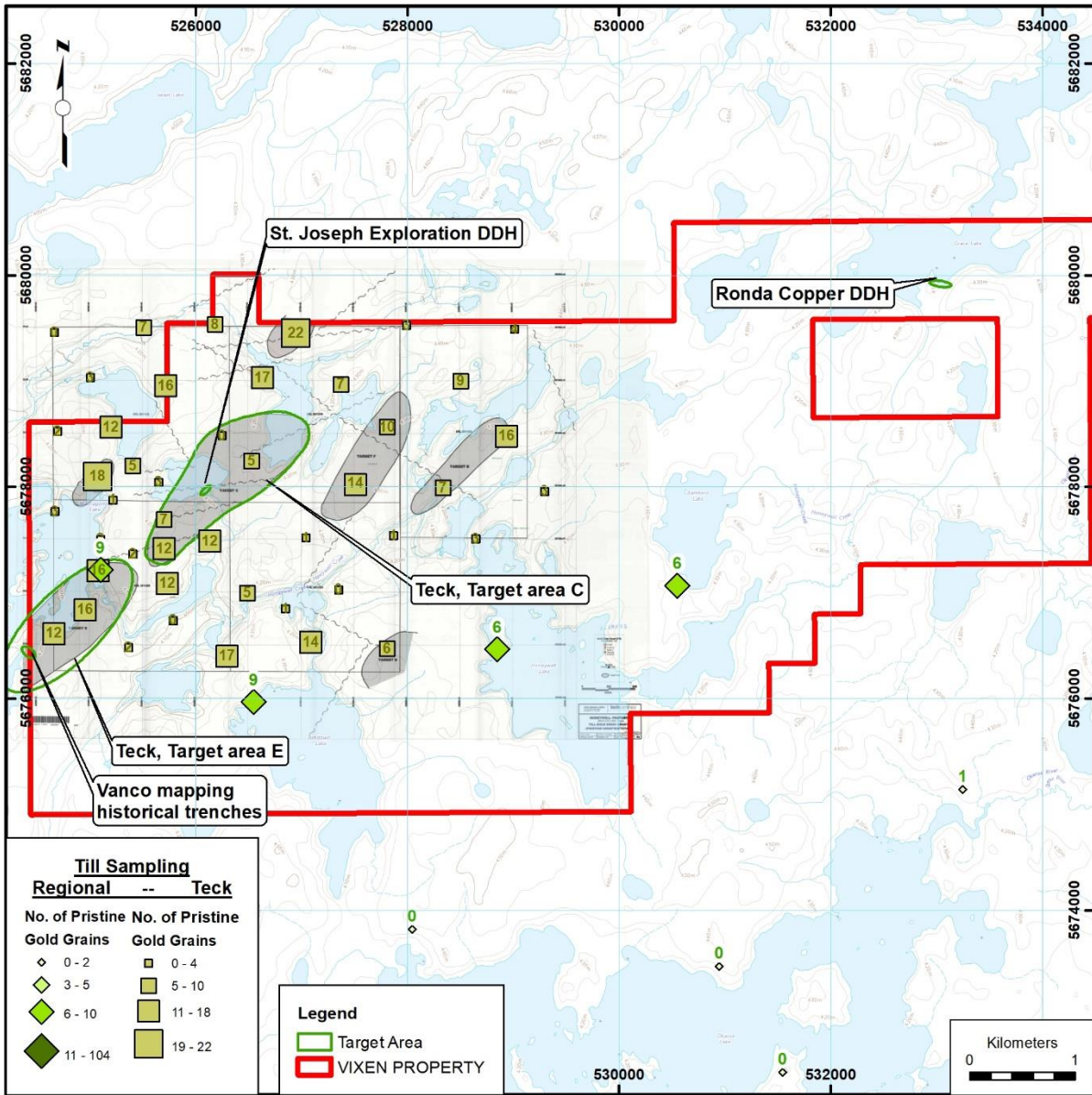


Figure 6. Historical Work Summary, Vixen North

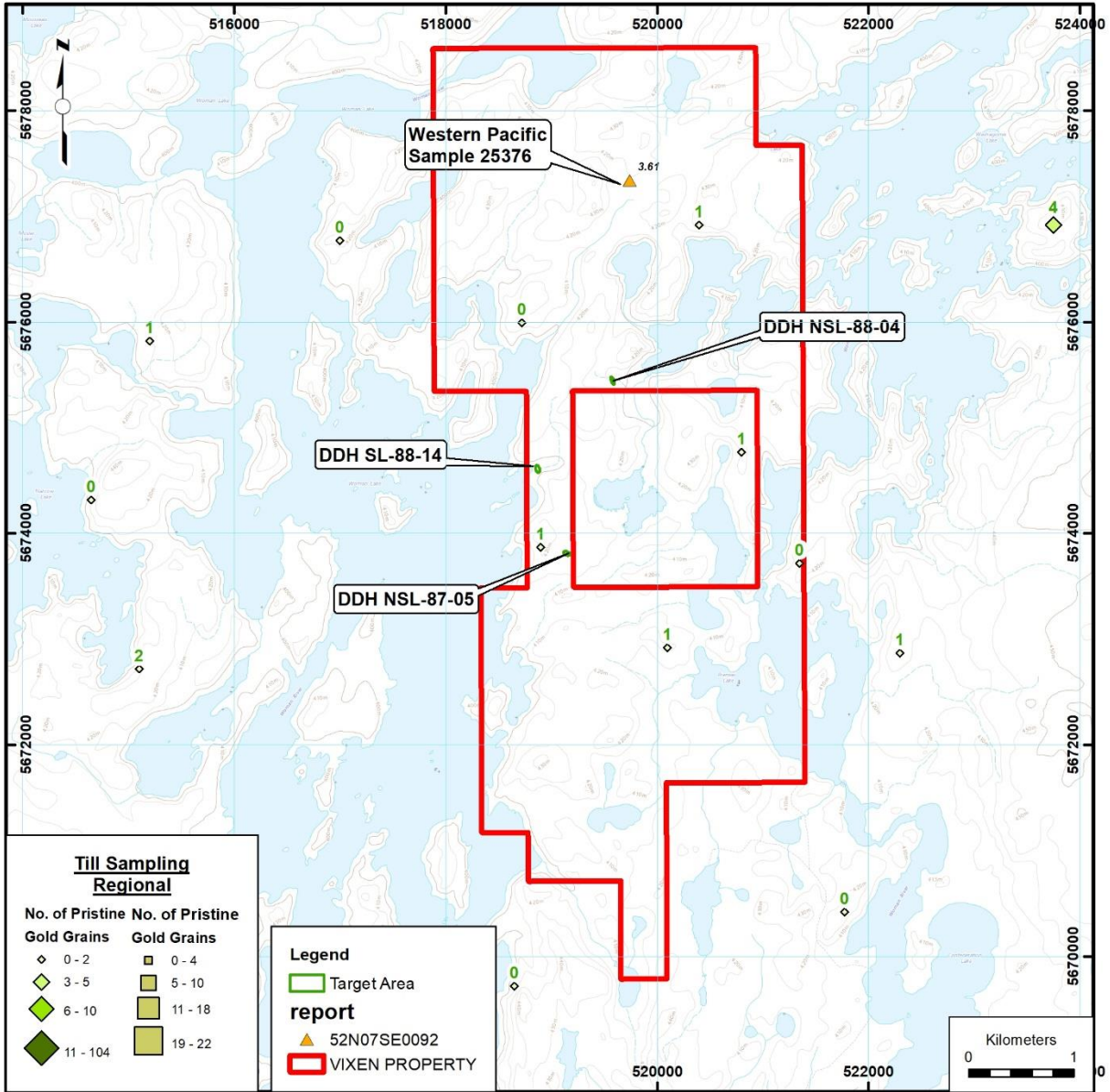


Figure 7 Historical Work Summary, Vixen West

F. PREVIOUS ALX WORK

F.1 2019 SGH Sampling

A two-person crew performed the SGH sampling program on the Vixen South Property. The crew averaged 40 samples per day for a total of 149 samples collected over 4 full field days. The sample grid consists of 50 m sample intervals in lines spaced 50 m apart. Time limitation resulted in a widening of the line spacing to 100 m in the lower priority north-eastern end of the grid.

The interpretation report by Actlabs outlines an area that is circled in the dashed yellow line as having a rating of 4.0 on a scale of 6.0, indicating that “there is a good chance that mineralization may be present”. The report concludes that, “a rating of 4.0 or more is an indication that this SGH Nano-Geochemistry predicts that the zone(s) described may warrant more work or more consideration”.

The SGH results are plotted in relation to the regional GSC (OF3038) and property-scale (52N07SE2005) till sampling by Teck in 2003. The SGH results suggest that additional SGH sampling should be completed to the south of the grid area (Figure 8). The southern and western edges of the survey grid have the highest results. The regional property-scale sampling does not indicate a clear source for the gold grains, so detailed surveying such as SGH or other geochemistry will be necessary.

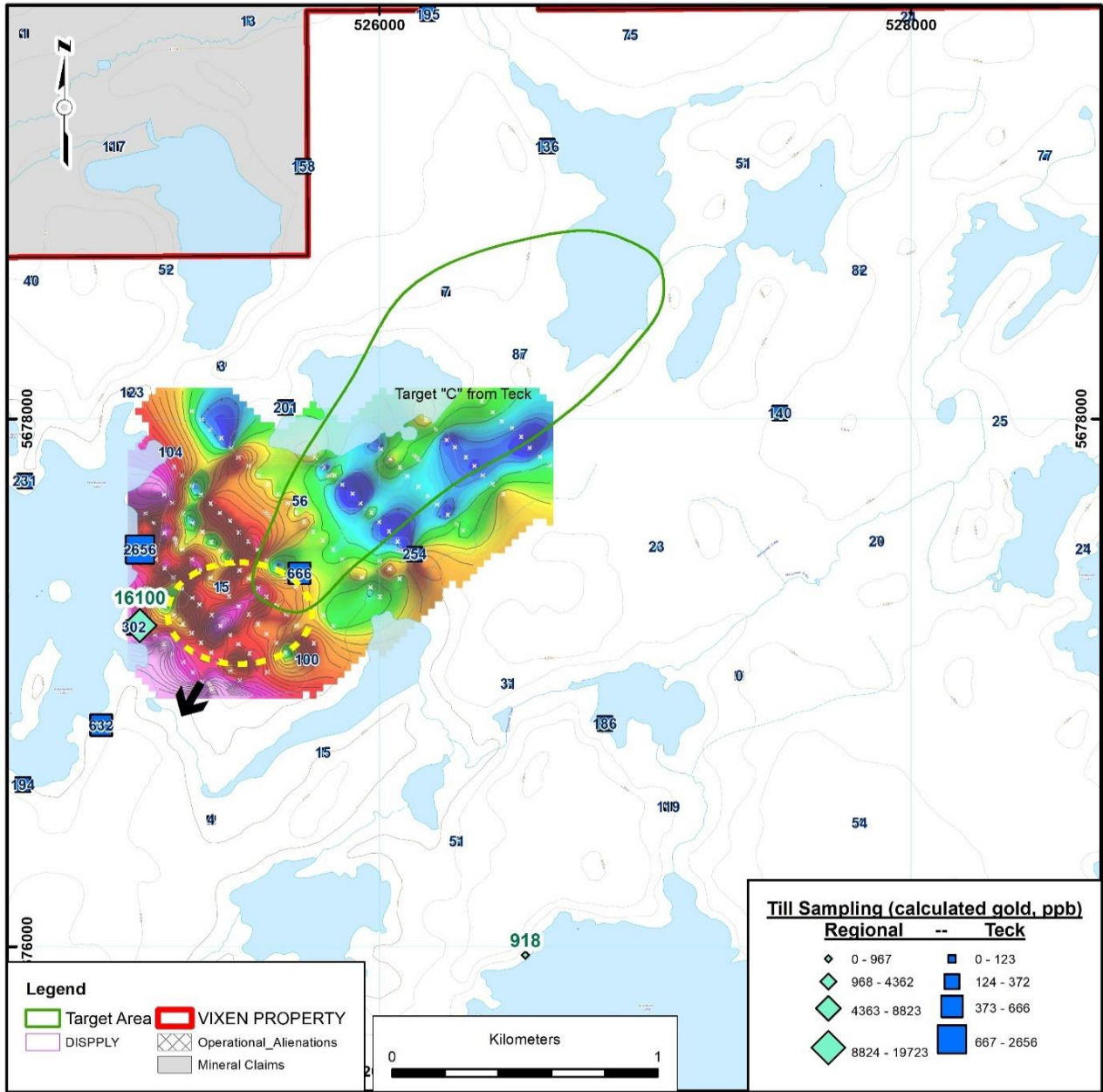


Figure 8: Compilation of SGH results with other data

G. GEOLOGICAL SETTING

G.1 Regional Geology

The property lies in the northern extremity of the Birch-Confederation Lakes metavolcanic-metasedimentary belt within the Uchi sub province of the Superior Province in the Archean Canadian Shield. Burrows and Spooner (1987) published a summary of the regional geology of this belt, and the following description is condensed from this publication. This belt is subdivided into three cycles, each beginning with tholeiitic pillowed basalt and andesite flows overlain by calc-alkaline andesitic and rhyolitic pyroclastics and capped by thin units of iron formation and marble. The lower cycle (Cycle I) consists of mafic and locally ultramafic rocks with lesser felsic volcanic rocks and intraformational sedimentary rocks. Cycle I have been interpreted as a platform sequence. Felsic volcanic rocks and sediments increase in abundance upwards through Cycle II and III. Cycle II was deposited during early caldera development and Cycle III development from resurgent volcanism. Cycle III is felsic dominated including hypabyssal felsic intrusions and the South Bay VMS deposit. Thurston et al. (1981) placed the mafic-felsic flows with intercalated metasediments of the Mink-Casummit-Birch Lake area within cycle II of the three volcanic cycles defined by Thurston (1978) in the Uchi-Confederation Lakes greenstone belt (Figure 9).

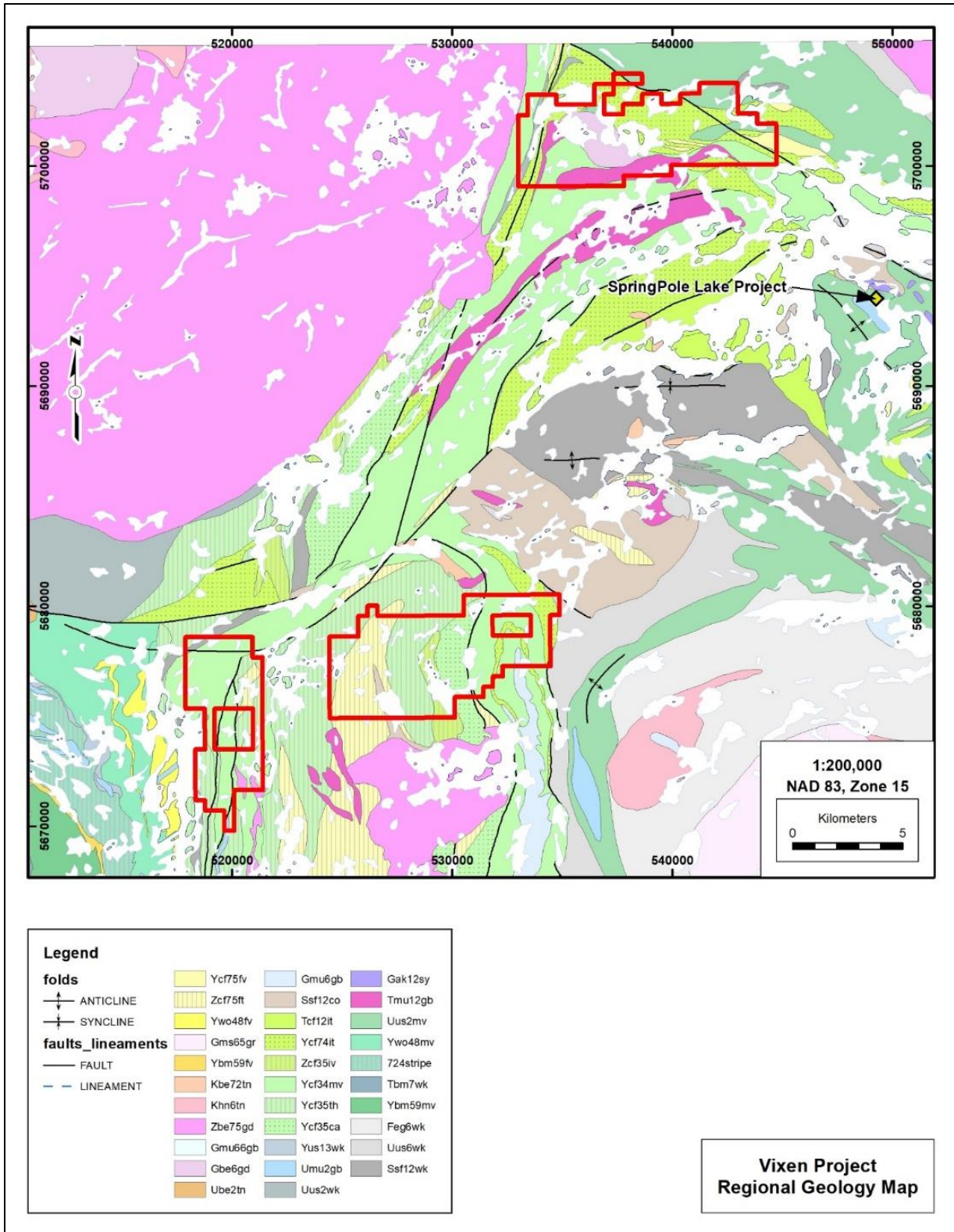


Figure 9. Regional Geology

G.2 Property Geology

The Vixen North property is underlain by interlayered horizons of mafic, intermediate, and to the south felsic metavolcanic rocks ranging up to several hundred meters in thickness. In the western margin of the property several hundred-meter-thick, clastic metasediments are wedged between mafic and intermediate metavolcanic. Thinner layers of iron-formation are deposited between mafic volcanic flows. At the Vixen North claim blocks the dominant fabric is northwest, with exception of the very western margin where the fabric changed to approximately north-northeast indicating a larger scale antiform with fold hinge a few km north of the property claims. A relatively small (1.5 X 3.25 km) unmetamorphosed, postductile deformation porphyritic intrusion characteristic of many in the Archean rocks intruded near Mink Lake. It was emplaced discordantly since it cuts across stratigraphy, which is near vertical (Burrows and Spooner, 1987). It is associated with minor MoS₂ mineralization.

Vixen South and Vixen West are approximately 30 km southwest of Vixen North and therefore more centered in the Birch-Confederation Lakes metavolcanic-metasedimentary belt.

H. Mineralization

H.1 Quartz Veins

Gold-bearing quartz veins at the Vixen North and Vixen South property contain 1-2% sulphides, pyrite being the most common, chalcopyrite, galena and arsenopyrite are less abundant. The wallrock of quartz veins is commonly silicified and 2-10% pyrite alteration halos up to several decimeters into the wallrock are common. Minor chalcopyrite and galena have been observed, chalcopyrite being a more consistent indicator of gold mineralization. No visible gold was identified during the 2020 field work.

H.2 Pyrite-Magnetite

At Vixen North one showing (Vulpin) hosts gold in a magnetite-pyrite-rich shearzone crosscut by a gold-bearing quartz vein. Up to 30% euhedral magnetite and 10-20% euhedral pyrite cubes up to 0.5 cm are host to some of the highest gold grades on the property. Similar magnetite-rich horizons in close local proximity do not have pyrite and did not return anomalous gold grades indicating that iron was there prior to the gold deposition and served as a chemical trap when gold rich fluids intersected the magnetite rich layer.

H.3 Siderite/ankerite alteration

This was only found close to the Mink Lake intrusion. Orange-brown siderite alteration in quartz veins of intermediate intrusive rocks is associated with the quartz veins. 1-5% sulfides typically occur within the alteration halo, but rarely in the veins themselves as well. This style is associated with low grade Molybdenite (MoS₂) mineralization, historical low grade Au assays were not confirmed during the 2020 prospecting.

I. 2020 PROSPECTING SUMMARY

The 2020 field program was initiated On August 5th, 2020, a pair of two-person field crews mobilized to Red Lake, Ontario for Phase I surface exploration which came to halt after a close by forest fire led to the evacuation of Red Lake and the subsequent demobilization of the crews from the field. Therefore, Phase II started with the mobilization on the October 5th, 2020, of a field crew of two and another field crew of two on the 6th of October. Work hours during field days were typically 10 h; a combined total of 13 separate working days were performed during 2020. **Table 2** outlines the personnel dedicated to the project.

Table 2. 2020 Staff

Name	Title	Dates
Phase I		
Darren Smith	Senior Geologist	07-10 August 2020
Patrik Schmidt	Project Geologist / Field Manager	
Deon Dicks	Field Hand	
Jordan Pearson	Junior Geologist	
Noah Van Camp	Junior Geologist	
Phase II		
Darren Smith	Senior Geologist	07-11 October 2020
Patrik Schmidt	Project Geologist / Field Manager	
Rowan Wollenberg	Junior Geologist	
Paul Mickelsen	Junior Geologist	
Noah Van Camp	Junior Geologist	

Handheld Garmin GPSMap 64s was used to aid navigation, record waypoint and track information. Structural measurements were taken with a Brunton Geological compass or similar, other equipment used included Estwing mash hammers, chisels, scribes, hand lenses (10x and 20x). A total of 261 grab samples were taken over the course of the multiple field programs based on mineralization, alteration or for litho-geochemistry. Samples were described in the field, photographed, and sealed in a polyethylene bag.

Samples were submitted to Activation Laboratories in Thunder Bay, Ontario for analysis. Assay samples were analysed by 50 g fire assay with and atomic absorption (“AA”) finish, assay samples were also submitted for ultra-trace analysis with a 4 acid near total digestion and an ICP-OES finish which provided 36 trace and major element analyses. Complete sample results are given in APPENDIX 2, selected Au-assay highlights from the program are summarized in **Table 3**.

Beep Mat, model BM8(Li-Ion) was rented from GDD Instrumentation for A small one day ground program on the North Vixen Property. The Beep Mat is an electromagnetic prospecting instrument that consists of a sleigh shaped short probe and a receiving unit (reference thing). The Beep Mat is adapted to search for outcrops and/or boulders containing conductive and/or magnetic minerals. The method of survey is EM/MAG ground survey, as the Beep Mat detects the magnetic susceptibility and relative EM conductivity. The Beep Mat takes continuous readings, 10 per second, as you pull its behind you on the sleigh. There were no corrections applied to the data. Through the reading acquired from the Beep Mat, it was observed that the gold mineralization at the Vulpin Zone is associated with a magnetite-rich shearzone. There was also an extension of the magnetite enrichment that was detected using the Beep Mat, that extended the already exposed approximately 10-metre-long zone.

The primary objective of the objectives of the 2020 Phase I program was to investigate target points delineated in 2019 and not visited that year due to time limitations, follow up on new discoveries from the 2019 program such as the Vulpin Zone (formerly known as Wet Boot Showing), Magnetite-Fluorite North Showing, and the Casummit Lake North Showing, and to investigate targets delineated by the 2019 SGH survey as well as government till sample program on Vixen South and Vixen West. Phase II extended the Phase I evaluation of these targets utilizing Beep Mat units to test the extend of the Vulpin Zone mineralization, and to determine if the gold-bearing horizon is detectable with these ground EM tools. In addition, Phase II followed-up on positive results from the Echo Zone, and the Dickenson Trenches.

Table 3: Significant (>1g/t) Au assays from grab samples (2020)

Sample ID	Easting	Northing	Showing	Au (g/t)	Cu (ppm)	Comments
75927	539120.1	5701691	Vulpin	2.05	40	Magnetite-bearing
75951	539114	5701693	Vulpin	8.41	84	Basalt hosted iron formation or secondary alteration, approx. 30% magnetite, 10% pyrite
75963	540490	5701926	Echo	1.5	11	
75968	534805.3	5702380	Dickenson	5	4160	From former trench/micro mining operation
146176	539113.1	5701697	Vulpin	7.21	63	Host is metabasalt, sample from a mag-rich zone (IF?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary contemporary with quartz
146177	539112.9	5701691	Vulpin	6.12		Host is metabasalt, sample from a mag-rich zone (IF?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary contemporary with quartz
146178	539121.9	5701688	Vulpin	1.7	70	Host is metabasalt, sample from a mag-rich zone (IF?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary contemporary with quartz
146181	539108.2	5701690	Vulpin	3.7		Host is metabasalt, sample from a mag-rich zone (IF?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary contemporary with quartz
146183	540517.6	5702031	Echo	2.05		quartz vein folded, multiple veins present, some sulfides and maybe VG, however tiny spec which could also be oxidized pyrite
146197	534816.5	5702376	Dickenson	17.7	7310	vein has multiple thin wallrock bands (inclusions) indicating multiple reopening events
146198	534808.9	5702374	Dickenson	3.8	1840	vein has multiple thin wallrock bands (inclusions) indicating multiple reopening events
146199	534810.1	5702376	Dickenson	2.3	211	vein has multiple thin wallrock bands (inclusions) indicating multiple reopening events
146202	539116.4	5701686	Vulpin	1.36	26	1mm pyrite and 2mm oxidised pyrite in 0.5mm euhedral magnetite groundmass. May have been displaced from the vein by previous trenching.
146265	540083.7	5700855	MF North (NEW)	1.14	22	Strong Fe-ox. Quartz is dark grey and massive. Minor (1-2%) pyrite. Up to 20-25% disseminated pyrite near veins.

I.1 Vixen North

A total of six (6) days over Phases I and II were allocated to prospect and revisit historical and prospective areas identified in 2019, and to evaluate previously un-prospected ground in the western part of the claim

block. Six (6) historical target areas were visited during the program (Figure 11). Approximate coordinates for each of the named showings are listed in **Table 4**. An overview of the regional geology, target locations, and the location of anomalous gold-bearing samples over 1 g/t Au is illustrated in Figure 11.

Table 4: Approximate UTM coordinates (NAD83) of targets

Easting	Northing	Zone	Target
539120	5701691	15	Vulpin Zone (formerly known as Wet Boot)
534816	5702376	15	Dickenson Trenches
542648	5702863	15	Casummit Lake North
540481	5701975	15	Echo Zone
540177	5700620	15	Magnetite-Fluorite Main Showing
540084	5700855	15	Magnetite-Fluorite North Showing
538057	5704062	15	12N
534138	5700560	15	Hatch-Mink
537082	5700086	15	Mink Lake Mo

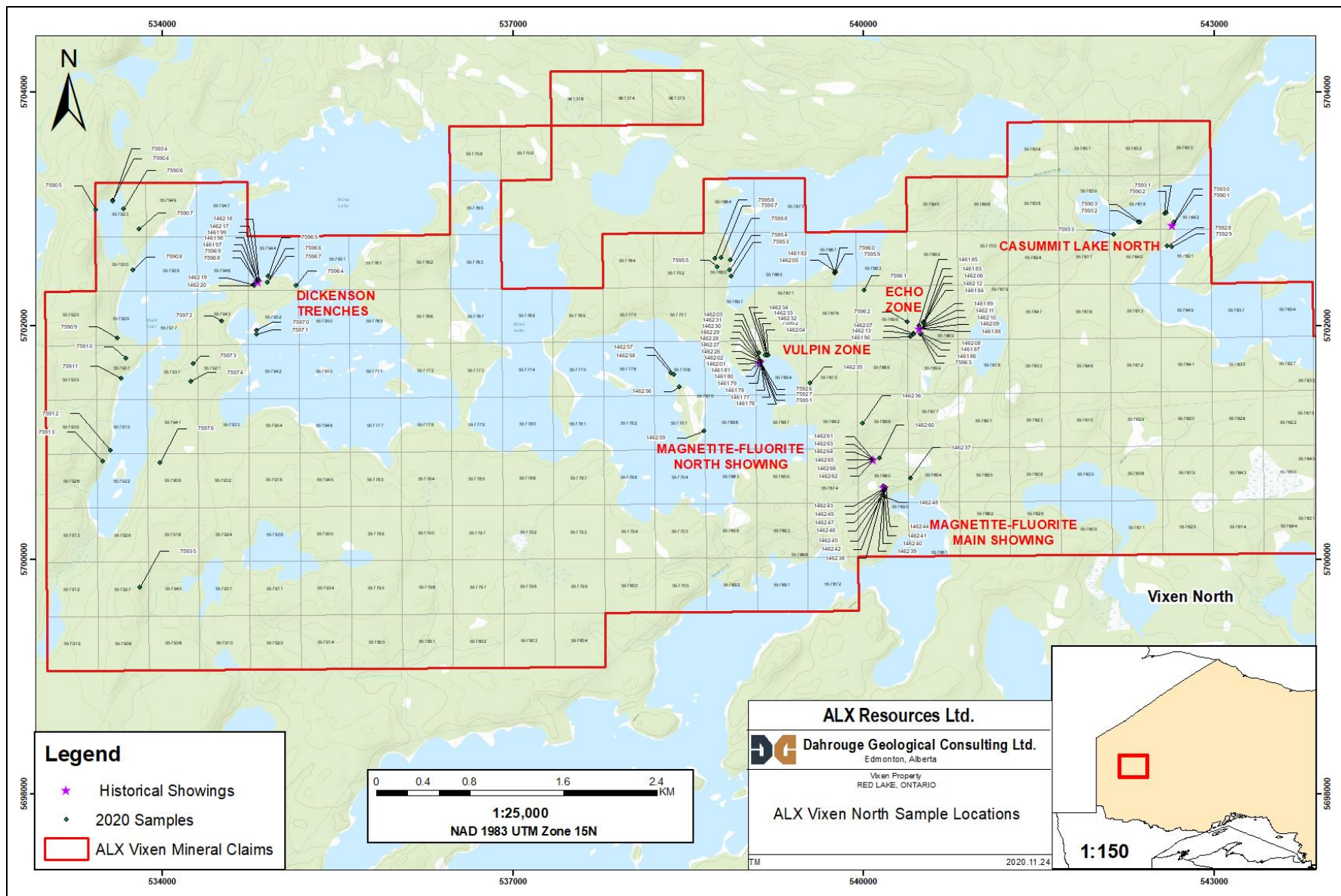


Figure 10. 2020 Sample Locations Vixen North

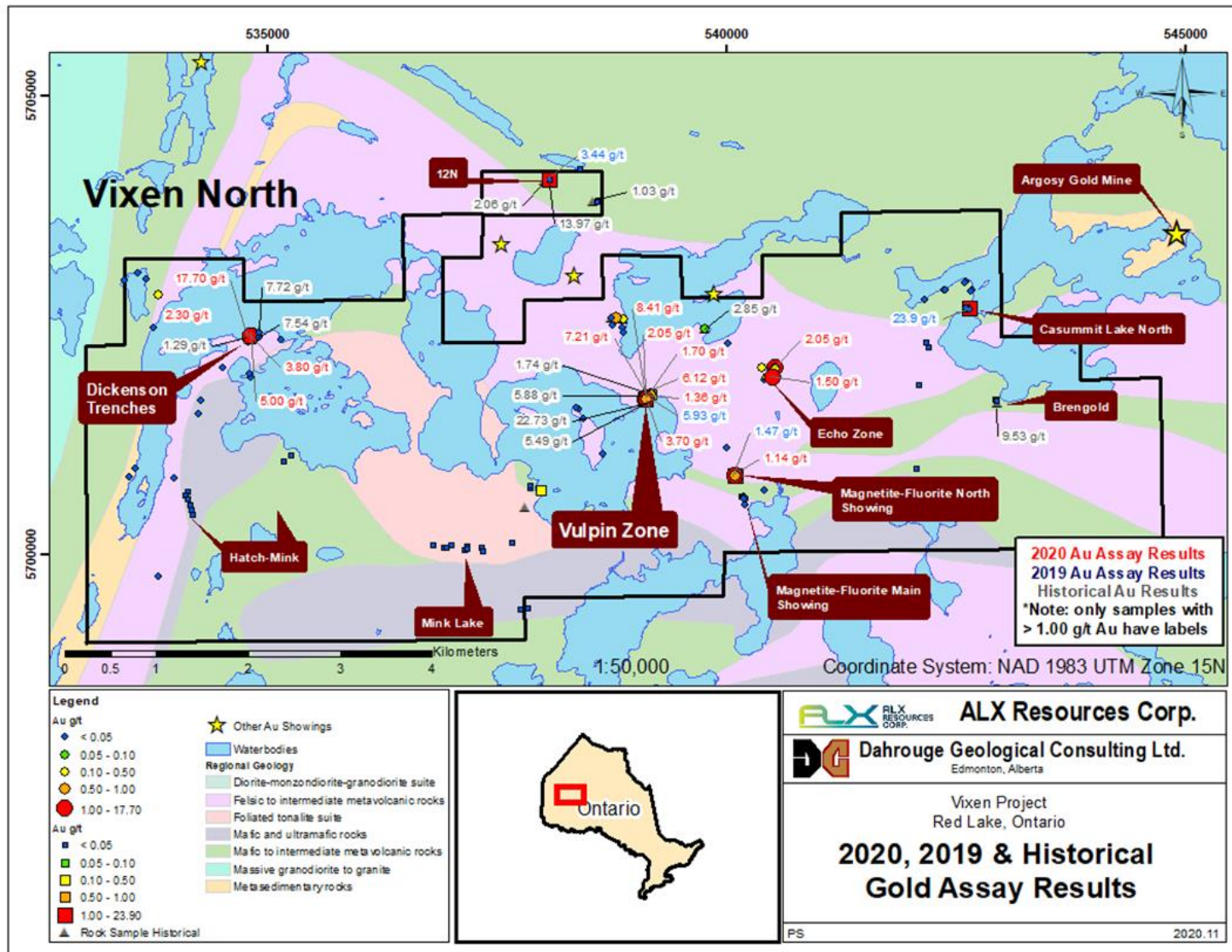


Figure 11. General geology and sample location summary for Vixen North

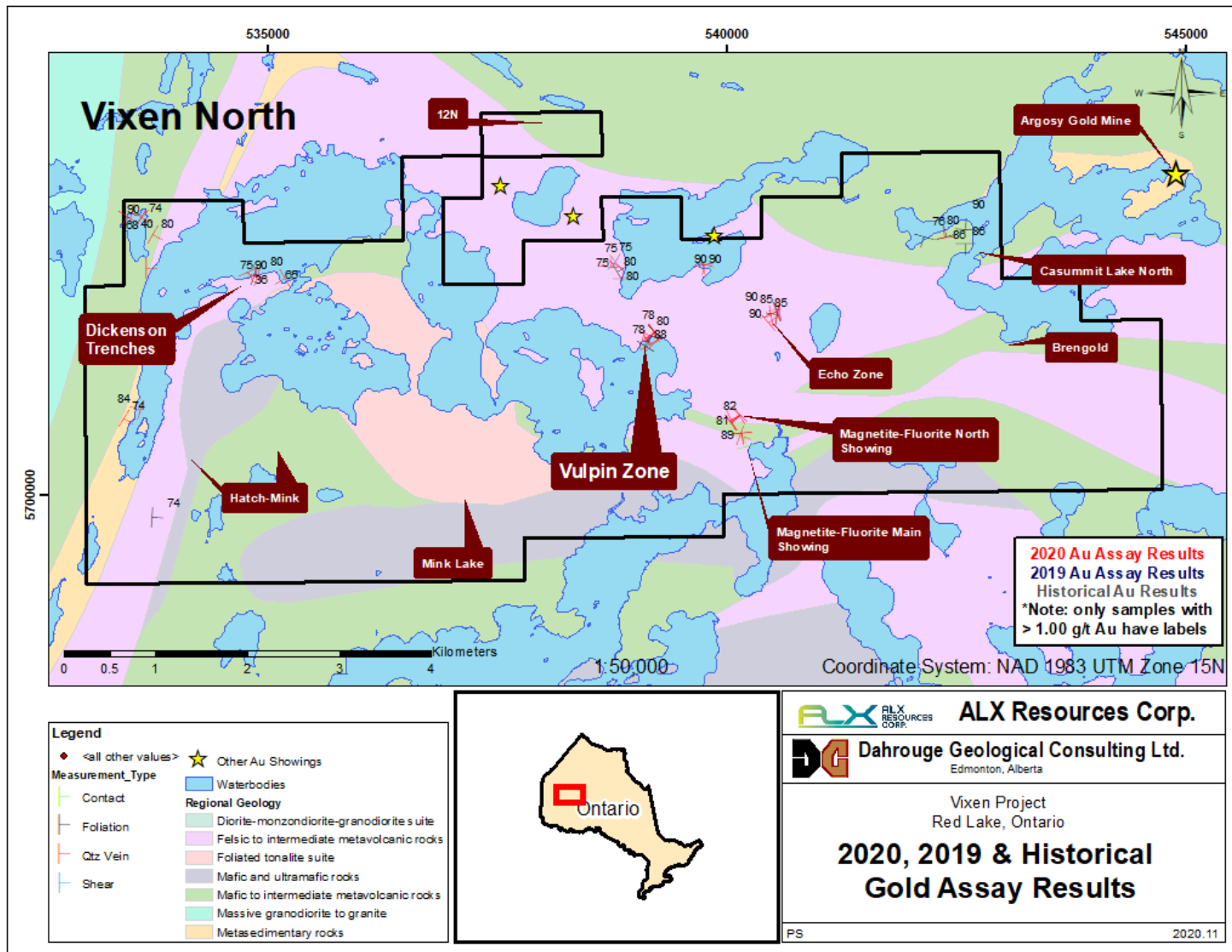


Figure 12. 2020 General geology and Structural Measurements for Vixen North.

I.1.1 Vulpin Zone

During Phase I and Phase II exploration, both teams spent 0.5 and 2 days respectively at the Vulpin Zone. A total of 21 samples were collected from the zone. A total of 19 returned gold values above the lower detection limit (5 ppb), and of those samples, **seven (7) assayed above 1 g/t Au to a maximum of 8.41 g/t Au**. **Table 5** lists all 2020 sample gold assays from the Vulpin Zone. There are two different gold mineralized rock types present at the Vulpin Zone. The first is located close to the lakeshore where there is an outcrop exposure (Figure 13) of meta-basalt hosting an approximately seven (7) cm wide quartz vein ($240^{\circ}/32^{\circ}$) with up to 5% euhedral pyrite (highest gold assay is sample 75926 at 0.89 g/t Au). At the contact to the quartz vein the meta-basalt contains up to 20 % disseminated, euhedral pyrite (highest gold assay is sample 75927 at **2.05 g/t Au**). The second style occurs in a historical trench and below a windfall (Figure 14), exposing strongly foliated and strongly weathered/rusty magnetite-rich rocks (Figure 14) containing abundant pyrite and minor quartz (highest gold assay is sample 75951 at **8.41 g/t Au and 32.1% Fe**). The exposure of this mineralization has an orientation of $302^{\circ}/80^{\circ}$ and pinches out towards the northeast and disappears under the lake towards the southwest. There are no indications that these different styles are the product of separate mineralization events; however, at this stage it should be assumed they are the result of different chemical ability to react with a gold-bearing fluid. This hypothesis is based on the observation that at the contact there is no obvious crosscutting relationship and lenses of unmineralized magnetite-rich rocks are observed elsewhere along the same total magnetic high trend which underlays the Vulpin Zone (Figure 15). Origin of those magnetite lenses could be suboceanic exhalates. Additionally, during Phase II, Beep Mat units were utilized to explore the extent of the gold mineralization. Six roughly NE-SW oriented grid lines were walked for approximately total of 4 line-kilometers recording high frequency (HFR) and low frequency response (LFR) readings every 20 m. Results for HFR are presented in Figure 16.

Another sample (75952) was collected approximately 150 m northeast of the main Vulpin Zone from a 10 cm wide quartz vein ($140^{\circ}/80^{\circ}$) crosscutting meta-basalt and assayed 0.27 g/t Au. The sample displays a similar mineralization style to the main Vulpin Zone Showing where the pyrite is most abundant at the periphery of the quartz vein. This occurrence highlights the potential of multiple veins formed by Au-bearing fluids in this area.

Table 5: 2020 Assay Results from the Vulpin Zone

Sample ID	Easting	Northing	Au (ppb)
75926	539117	5701690	889
75927	539120	5701691	2050
75951	539114	5701693	8410
146176	539113	5701697	7210
146177	539113	5701691	6120
146178	539122	5701688	1700
146179	539121	5701690	741
146180	539122	5701695	62
146181	539108	5701690	3700
146201	539117	5701688	34
146202	539116	5701686	1360
146203	539107	5701769	< 5
146204	539188	5701752	< 5
146226	539123	5701696	11
146227	539123	5701696	317
146228	539124	5701691	318
146229	539124	5701691	143
146230	539126	5701693	41
146231	539126	5701693	296
146232	539173	5701753	77
146233	539173	5701753	11



Figure 13. Outcrop of samples 75926 (quartz-vein) and 75927 (pyrite-rich host rock)



Figure 14. Windfall exposing magnetite-pyrite-rich iron formation. Right: Sample 75951, composed of euhedral magnetite and pyrite in distinct layers

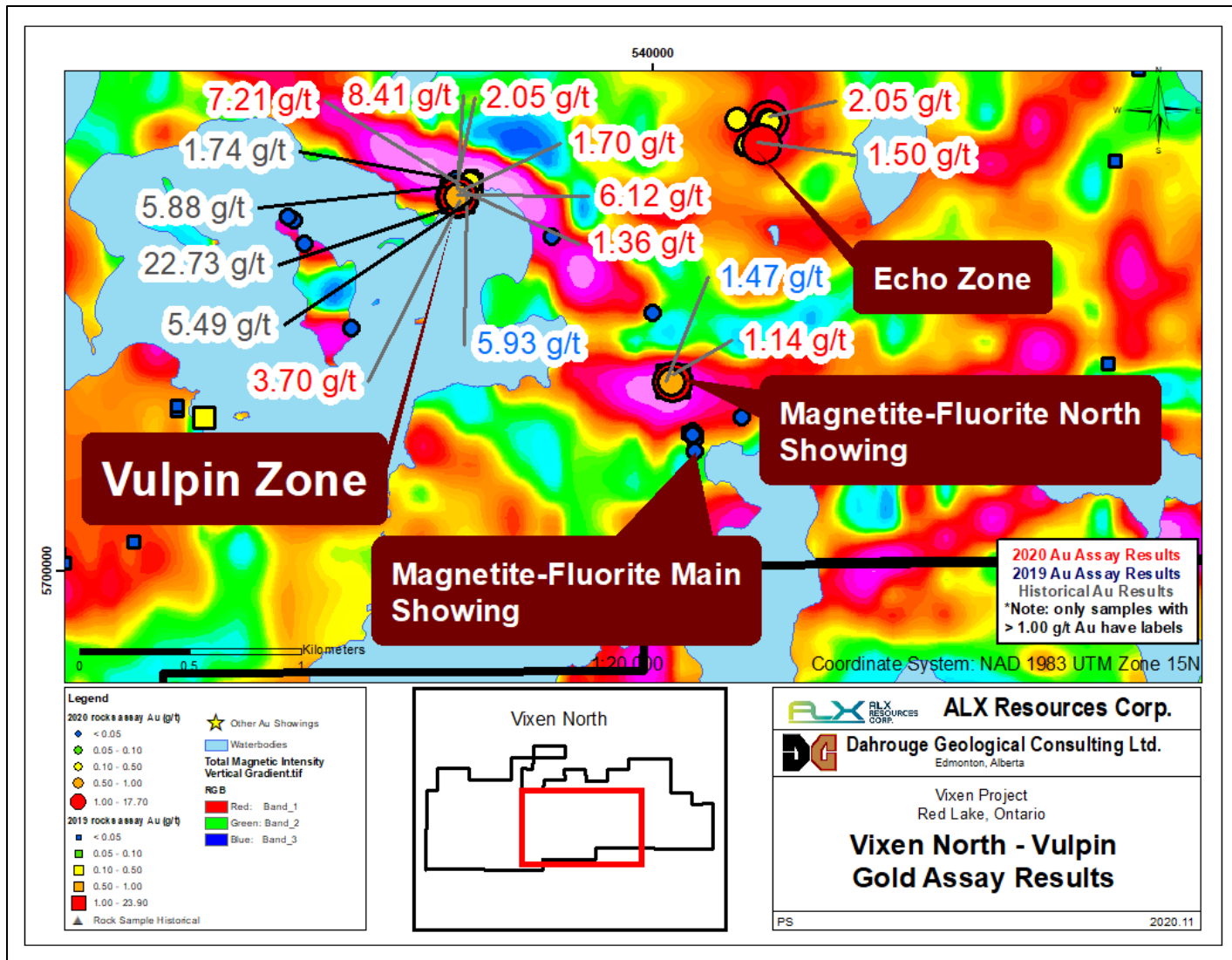


Figure 15: NW-SE Au-assay results over magnetic high (first vertical derivative) trend at the Vulpin Zone and the Magnetite-Fluorite Showing.

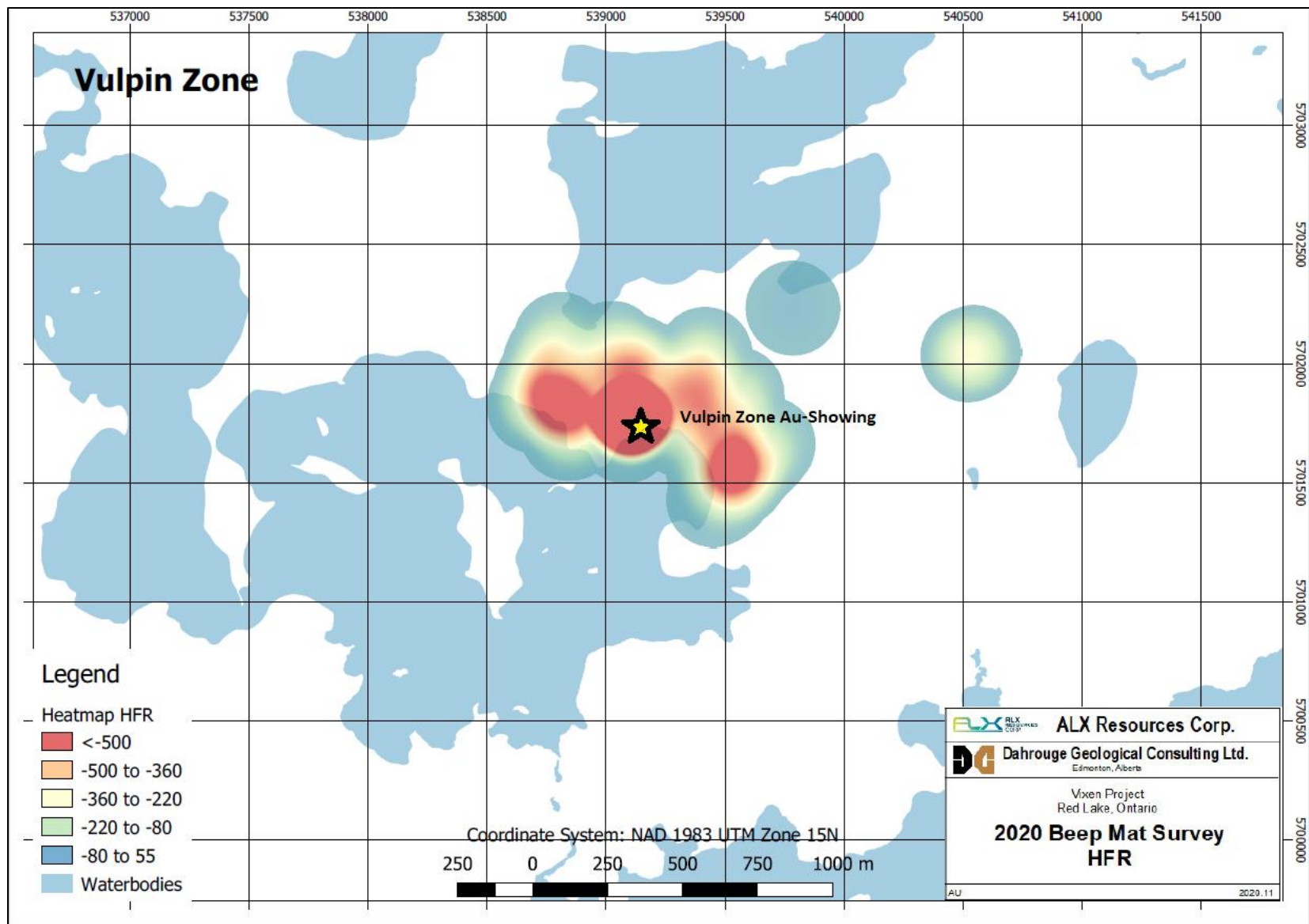


Figure 16. Beep Mat high frequency response (HFR) heat map. Warm colours indicate more magnetite present.

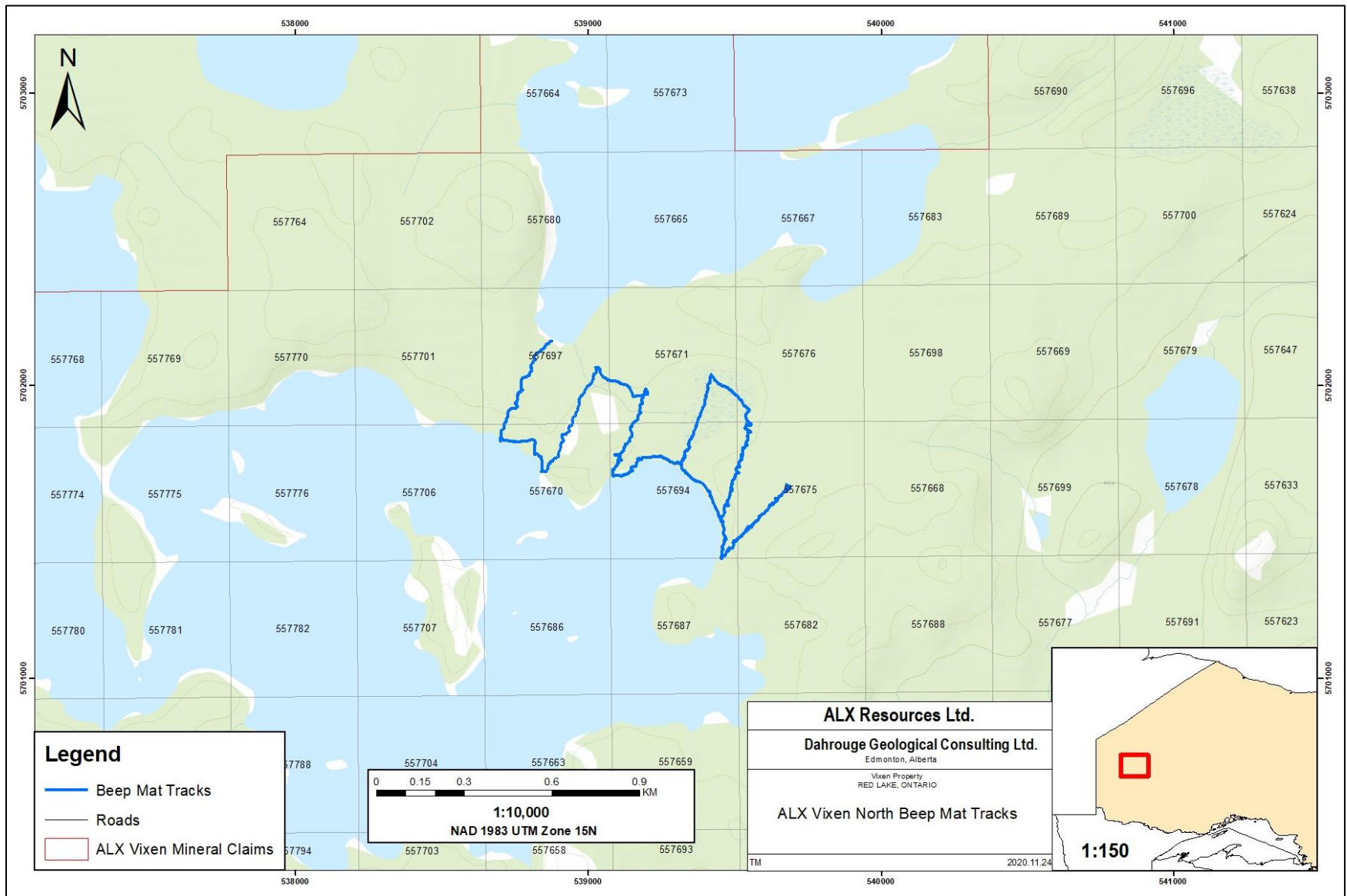


Figure 17. Beep Mat Traversed Location

I.1.2 Magnetite-Fluorite Main Showing

The Magnetite-Fluorite Main Showing is located between the northwestern shore of Birch Lake and the southeastern end of Mink Lake and was visited by one team for one day during the 2020 program. A total of 12 samples were collected, four (4) returned gold values above the lower detection limit (5 ppb); however, all of them were below 50 ppb. The rock exposed in outcrop is rhyolite with several mm to cm quartz-fluorite-feldspar veins with variable amounts of pyrite (

Figure 18). Magnetite is present in the hostrock but does not exceed 5%.

Figure 18. Left: Sample 146244, rhyolite with quartz-feldspar-pyrite vein. Right: 146245, quartz-feldspar-



fluorite-pyrite vein

I.1.3 Magnetite-Fluorite North Showing

The airborne geophysical survey flown in 1992 at a 200 m spacing shows an underlying NW-SE trending total magnetic high array at the Vulpin Zone (Figure 31), which could have an extension at the Magnetite-Fluorite North showing that delivered 1.47 g/t gold in sample 295565 from 2019 and was followed up in Phase II collecting a total of seven samples, results are listed in **Table 6**. The samples were taken around

10 m from the 2019 sample location, from newly discovered shear zone with stacked quartz veins within gossanous amphibolite host rock exposed at a small ridge by pulling back moss cover (Figure 20). Six samples returned anomalous gold assays over the lower detection limit. Three samples were around 1 g/t gold, all of these are from the amphibolite host rock containing various amounts of pyrite while the quartz vein samples returned lower gold values of 74 and 342 ppb Au. The samples were not particularly enriched in magnetite which shows the general gold enrichment in the geophysical magnetic high terrains. The strike and dip of the quartz swarm was measured to be 323°/80°.

Table 6. 2020 Magnetite-Fluorite North assay results

Sample ID	Easting	Northing	Au (ppb)
146260	540138	5700871	< 5
146261	540086	5700856	935
146262	540085	5700856	74
146263	540085	5700856	342
146264	540085	5700856	496
146265	540084	5700855	1140
146266	540080	5700854	923

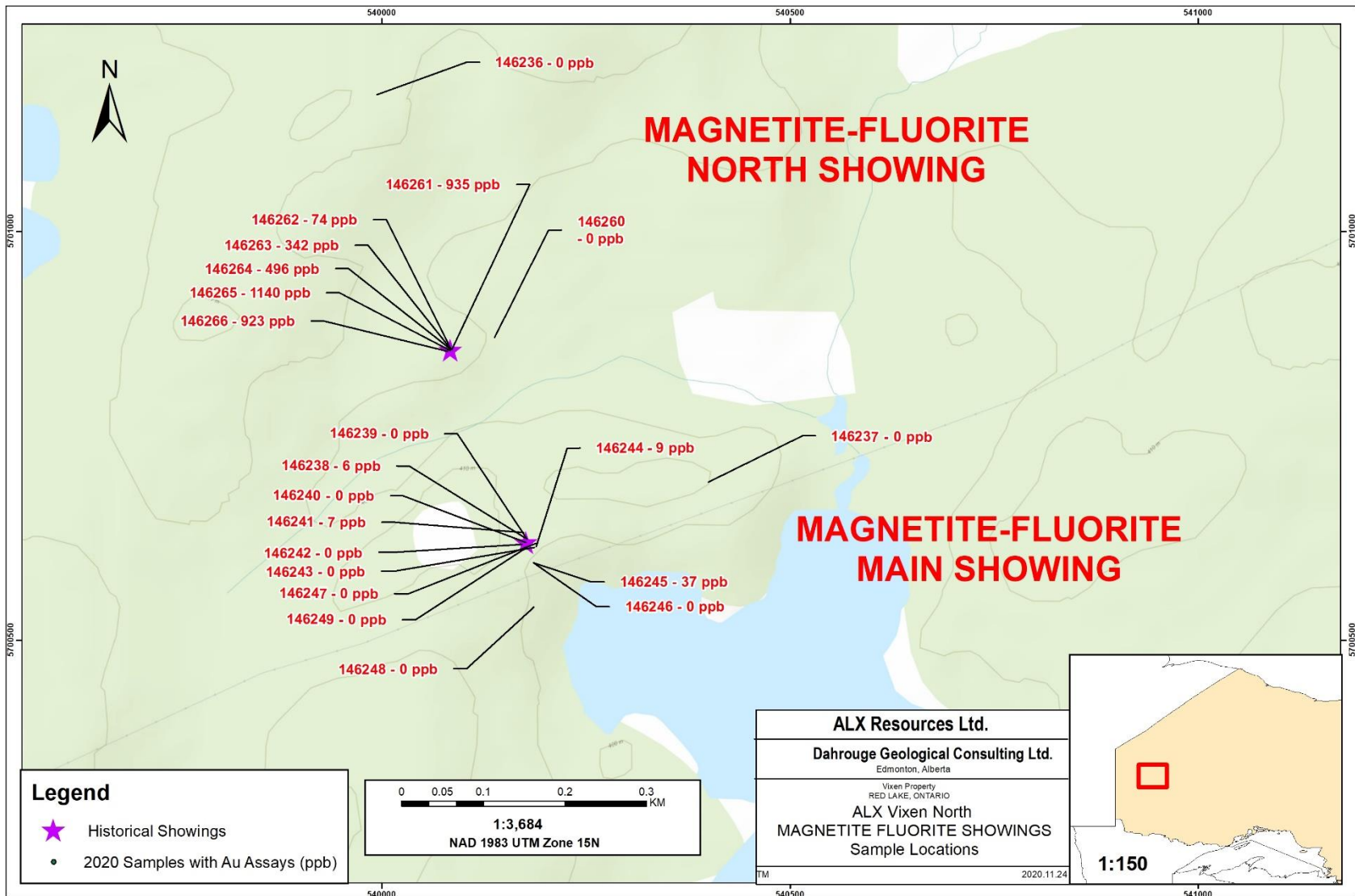


Figure 19. Vixen North "Magnetite-Fluorite North/Main Showings" Sample locations with Au ppb assay results



Figure 20: Outcrop from the newly discovered Magnetite-Fluorite North Showing. Quartz vein swarm crosscutting amphibolite.

I.1.4 Dickenson Trenches

A total of eight (8) trenches were located at the historical Dickenson Mines Ltd. (in 1972) worksite (Figure 21), which is more than the five (5) trenches noted in the assessment report (52N08NW2014) prepared for Fronteer Development Group Inc. It is unclear if new trenches were excavated since the initial stripping or just not located at the time of the assessment report. The trenches are elongated in a NW-SE direction over approximately 120 m and stacked parallel at a bearing of approximately 65°. While most trenches are around 3-5 m long and 1 m wide, the main trench at the northeast end of the set of trenches is L-shaped, approximately 3 m wide, 8 m long, and 2 m deep, and has 1 shallower northeast trending side arm. (Figure 23). Five samples were collected from a muck/ore pile beside the main trench that had several 40 x 30 x 20 cm blocks of quartz vein and host rock material stacked beside it (Figure 24). All

trenches are overgrown and buried in debris; however, outcrop was found at the edge of the main trench and 3 samples were collected. The quartz vein also outcrops in the fourth trench towards the SW, which is approximately 60 m from the main trench – one (1) sample was collected. Historical reports describe a 20 cm (~8 inch) vein trending 065°, dipping 75° north which correlates well with the trend of the trenches. The samples collected from the pile are of quartz vein material with schlieren and clasts of wallrock inclusions within the vein, hosting and estimated 3-5% chalcopyrite (Figure 25, left) which assayed as high as **17.70 g/t Au**. Sample 75969 (Figure 25, right) is from a different piece of the same pile apart from the wallrock inclusions, had trace amounts of pyrite but no visible chalcopyrite. This sample assayed **0.95 g/t Au** suggesting that the higher-grade gold mineralization is associated with the event that carried Cu. Several smaller quartz veins (approximately 1 cm) are found at the shoreline towards the northwest, trending parallel and perpendicular to the main quartz vein. No samples were collected. Assay results from this area are presented in Table 7:

Table 7. 2020 Dickenson Trenches assay results

Sample ID	Easting	Northing	Au (ppb)
146217	534824	5702383	212
146218	534822	5702389	141
146219	534779	5702349	315
146220	534783	5702345	718

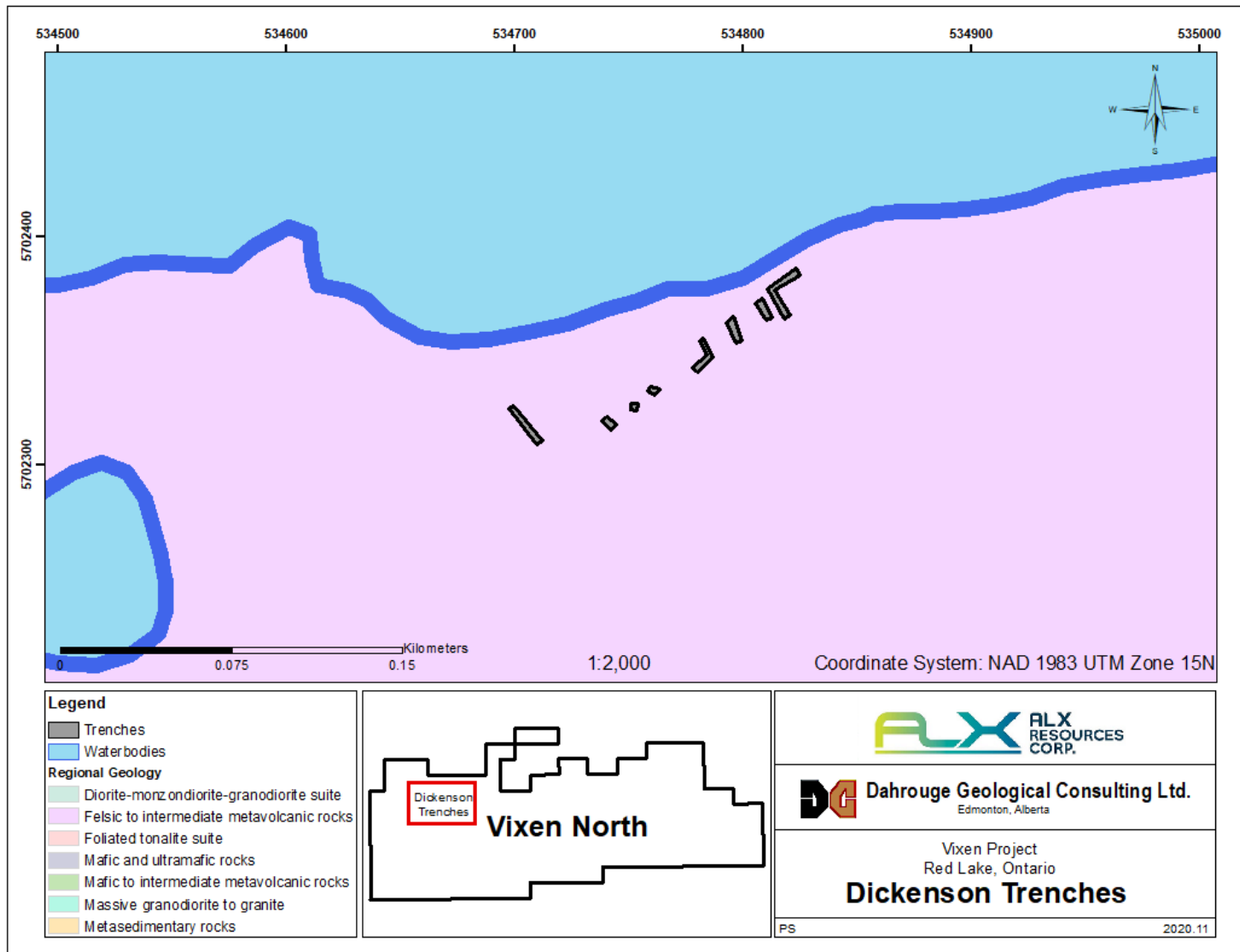


Figure 21: Location of the historical Dickenson Trenches on the Vixen North claim block

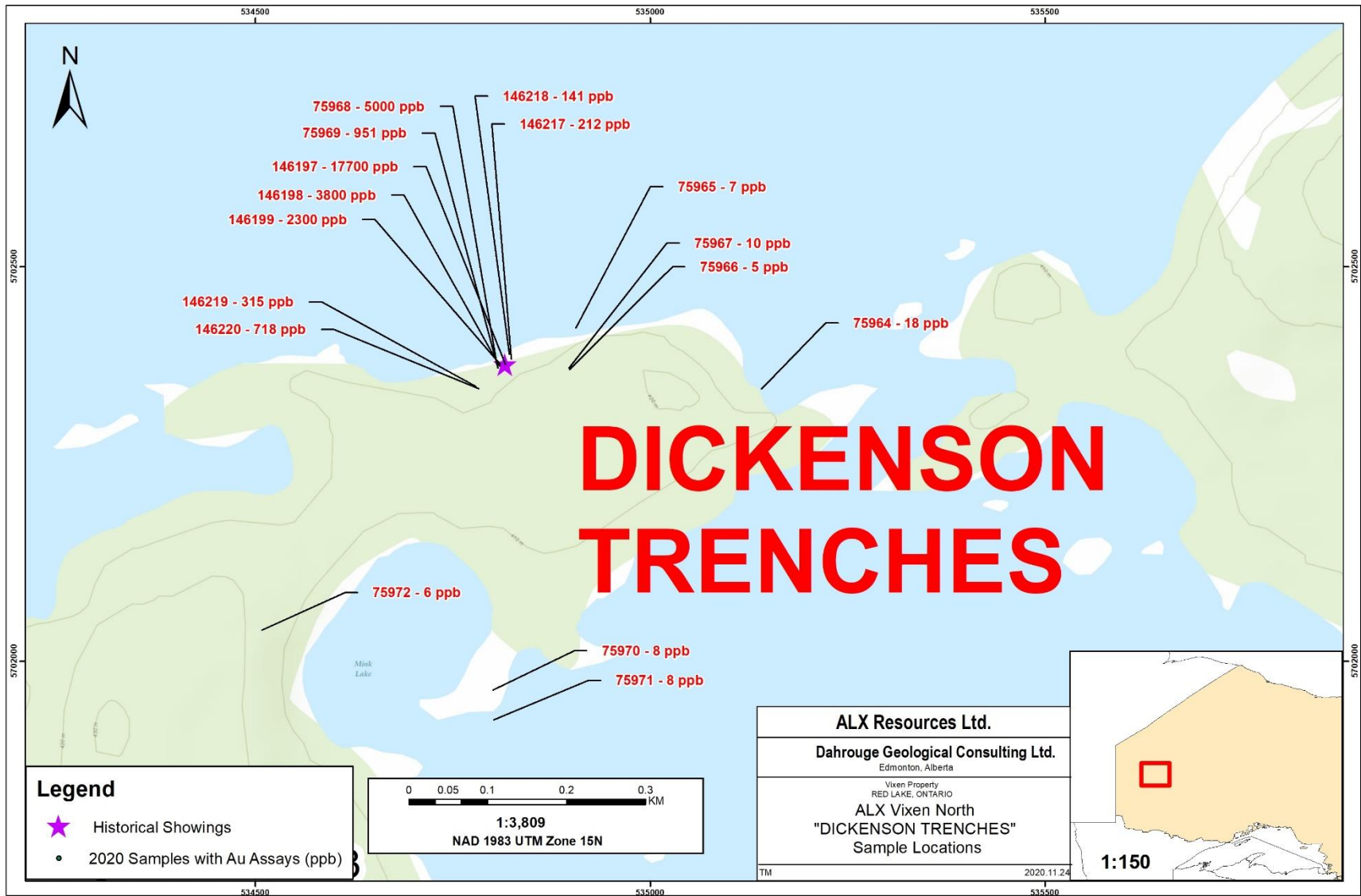


Figure 22. Vixen North "Dickenson Trenches" Sample locations with Au ppb assay results



Figure 23: Roughly 2 m deep trench which is overgrown and filled with debris



Figure 24: Pile of quartz vein material stacked beside trench



Figure 25: (Left) Sample 75968 with wallrock schlieren/clasts and approximately 5% chalcopyrite; (Right) Sample 75969 with wallrock schlieren and trace amounts of pyrite

I.1.5 Casummit Lake North

One crew revisited the Casummit Lake North Trenches during Phase I. Two samples were collected of foliated/sheared metabasalt which was exposed in one of the trenches; however, only a peak gold value of 40 ppb was returned. The samples could not reproduce the 2019 results which delivered 23.9 g/t Au in sample 295548. The absence of quartz in the 2020 samples, which was described to be abundant in the 2019 samples suggests that the gold-bearing lithology was not located, an attempt to revisit the site in Phase II was unsuccessful due to strong wind which prohibited the helicopter from landing close enough

to reach the target. Nine (9) total samples were collected in the wider area of which only two returned gold assays above the lower detection limit (**Table 8**).

Table 8: 2020 Casummit Lake North assay results

Sample ID	Easting	Northing	Au (ppb)
75901	542648	5702863	< 5
75902	542578	5702959	< 5
75903	542371	5702884	< 5
75928	542603	5702683	< 5
75929	542641	5702673	40
75930	542661	5702884	5
75931	542593	5702968	< 5
75932	542354	5702888	< 5
75933	542144	5702780	28

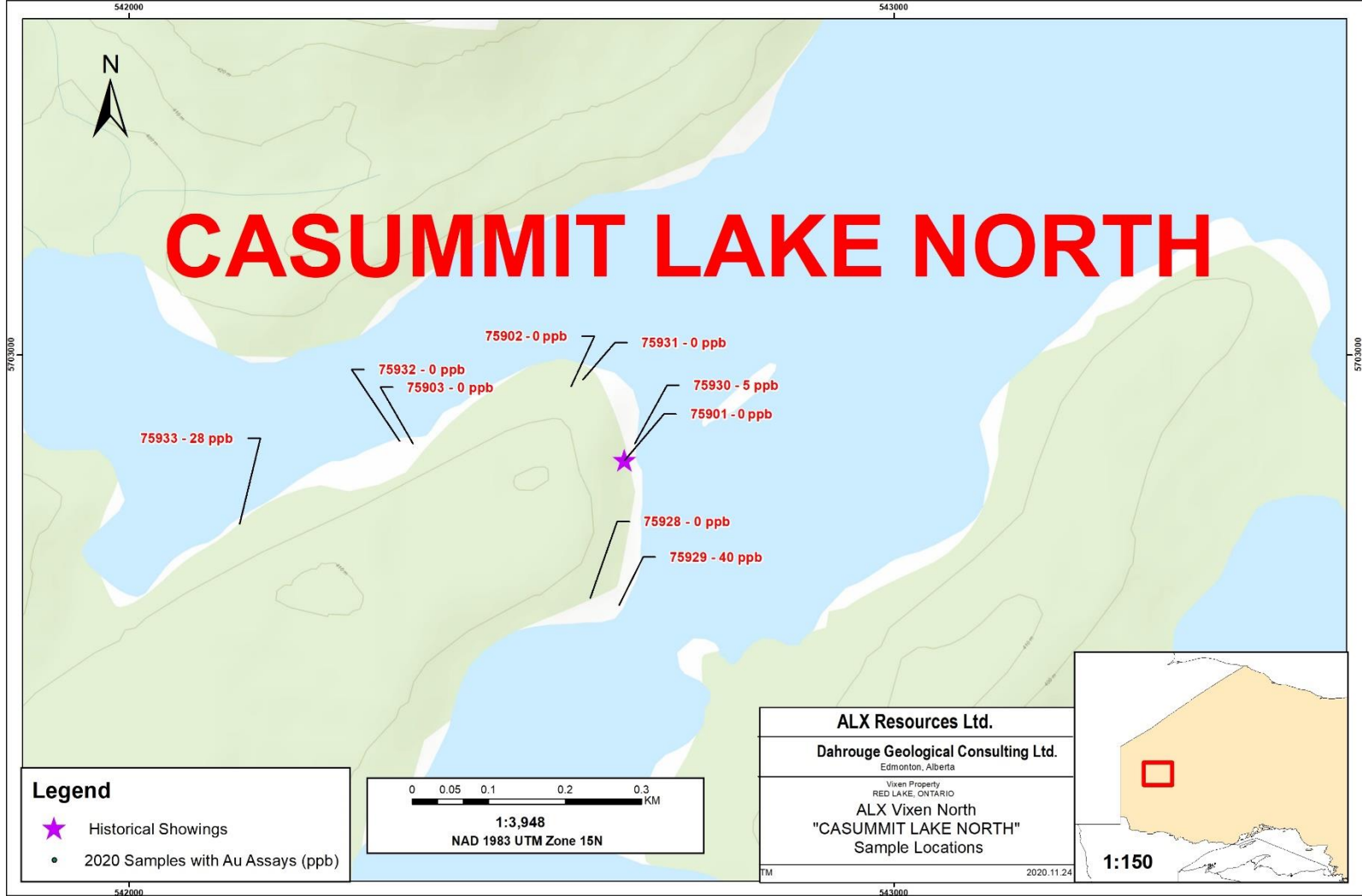


Figure 26. Vixen North "Cassumit Lake North" Sample locations with Au ppb assay results

I.1.6 Echo Zone

The Echo Zone was previously worked by Esso in 1987 and 1988. One field team spent 1.5 days prospecting in this area, during which 18 samples were collected (Figure 27). A total of 17 samples returned gold values above the lower detection limit. The highest assays returned 1.5 g/t Au and 2.1 g/t Au, with ten (10) results ranging between 100 and 400 ppb Au, and six below 100 ppb (**Table 9**). Three (3) of five (5) trenches excavated by Esso were located, exposing feldspar-porphyry intrusions locally with abundant magnetite which are crosscut by up to 1 m wide quartz veins. Veins are near vertical, striking 160°. Additionally, several quartz veins in outcrop up to 0.5 m wide were sampled. Magnetite-rich zones are present in outcrop and boulders but are not associated with significant gold mineralization (Sample 146185).

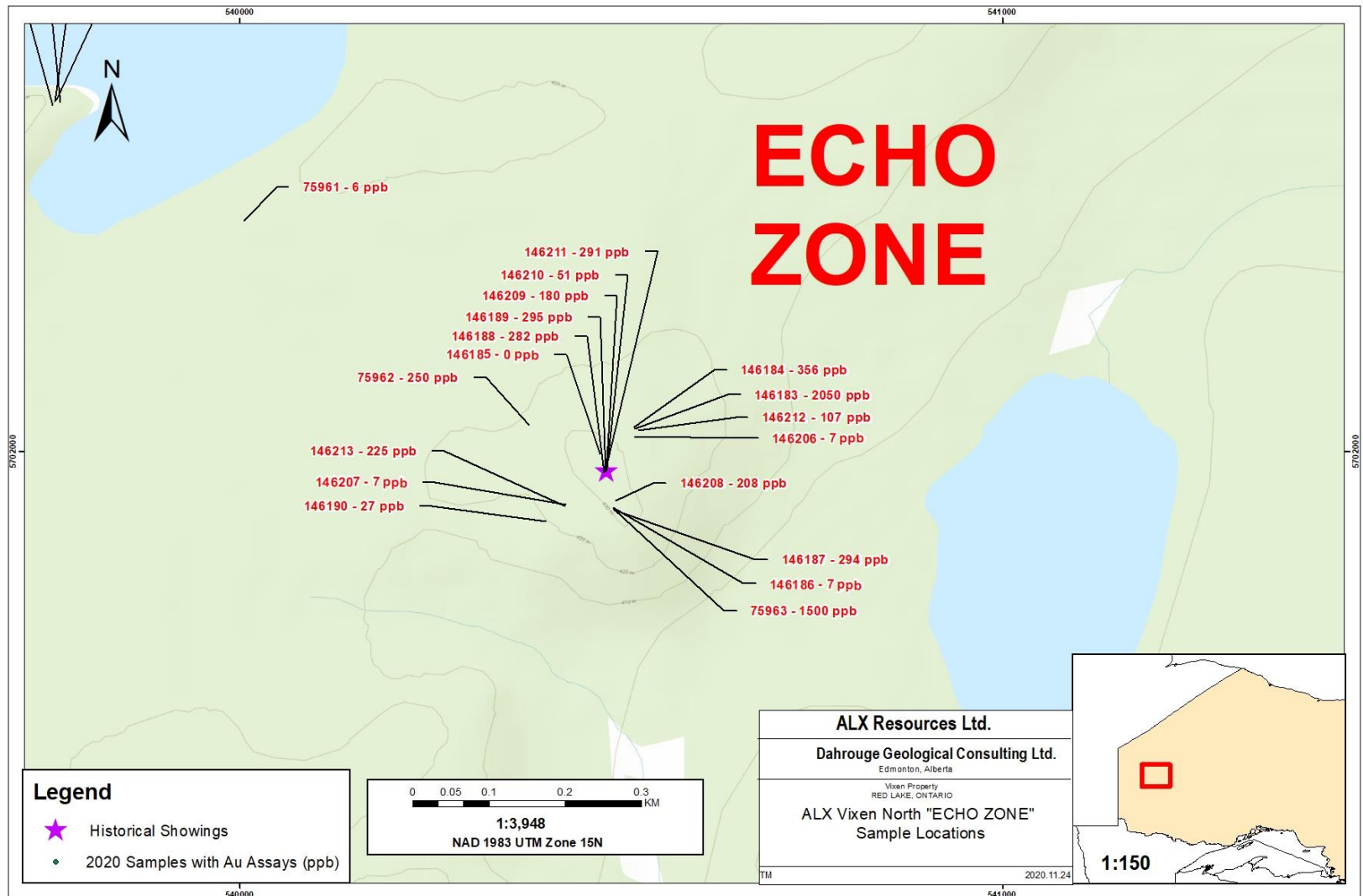


Figure 27. ECHO ZONE sample locations with Au ppb assay results

Table 9: 2020 Echo Zone assay results

Sample ID	Easting	Northing	Au (ppb)
75962	540380	5702036	250
75963	540490	5701926	1500
146183	540518	5702031	2050
146184	540517	5702033	356
146185	540473	5701997	< 5
146186	540490	5701927	7
146187	540491	5701924	294
146188	540478	5701973	282
146189	540479	5701974	295
146190	540402	5701909	27
146206	540518	5702021	7
146207	540427	5701931	7
146208	540492	5701936	208
146209	540481	5701975	180
146210	540482	5701980	51
146211	540481	5701980	291
146212	540523	5702028	107
146213	540426	5701929	225

1.2 Vixen South

Both crews spent two days over Phase I and II prospecting at Vixen South, which covered a highly prospective gold target delineated in 2019 by the SGH survey. Previously un-prospected ground east of the soil grid also became a target for gold based on the government till sample program, in addition to the prospective VMS targets in the eastern part of the claims. A total of 40 samples were collected (**Error! Reference source not found.**), comprised dominantly of felsic volcanic rocks located towards the west of the prospected area and mafic volcanic rocks towards the east. Ten (10) samples returned gold values above the lower detection limit (5 ppb) and two (2) greater than 100 ppb Au – sample 75988 (**0.17 g/t Au**) and 75991 (**0.15 g/t Au**). Both samples are of quartz veins/altered host rock from the western area of the claim block. While these results are subeconomic it highlights the presence of gold-bearing fluids.

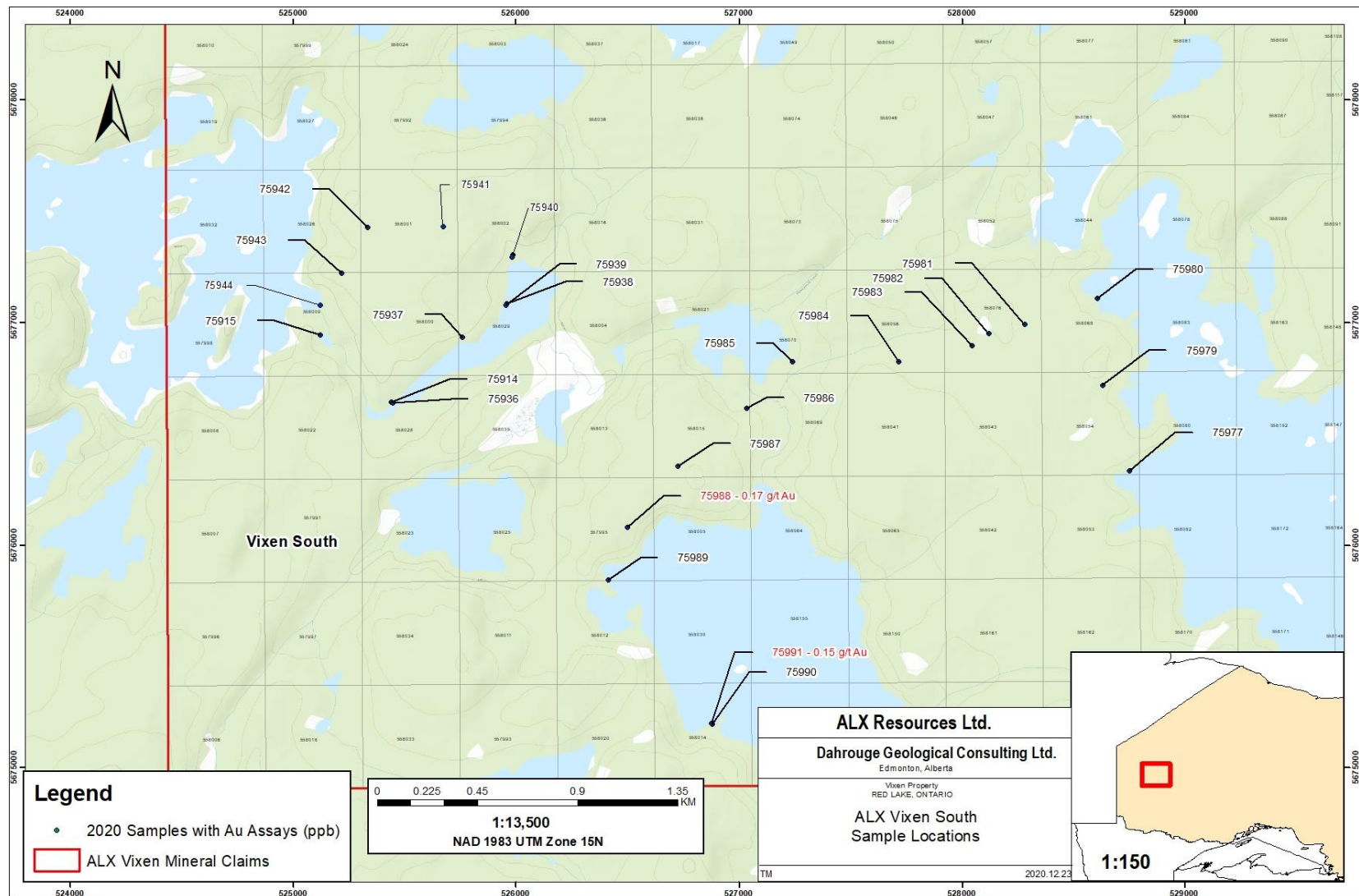


Figure 28. 2020 Sample Locations Vixen South, Western part of property

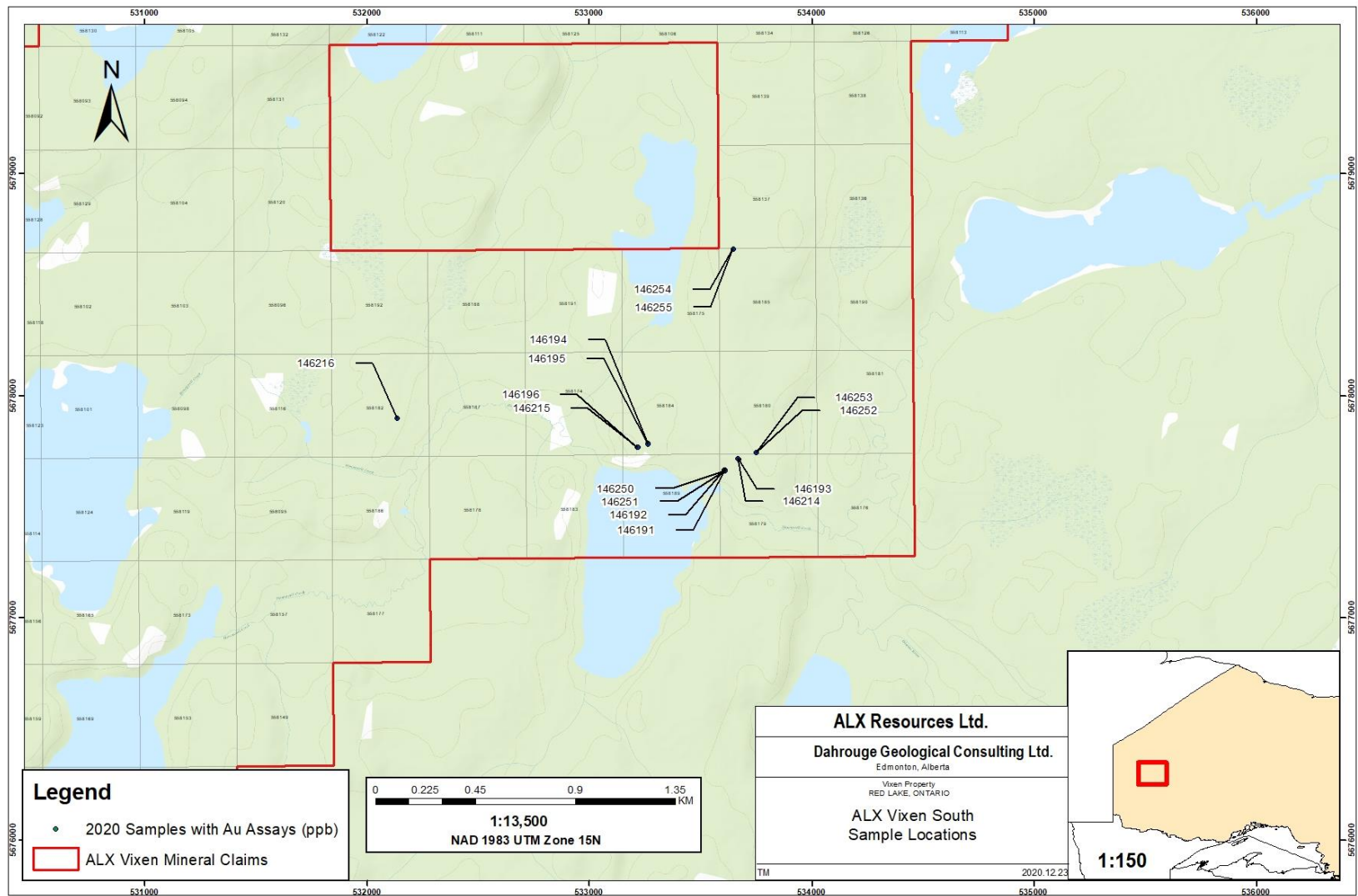


Figure 29. 2020 Sample Locations Vixen South, Eastern part of property

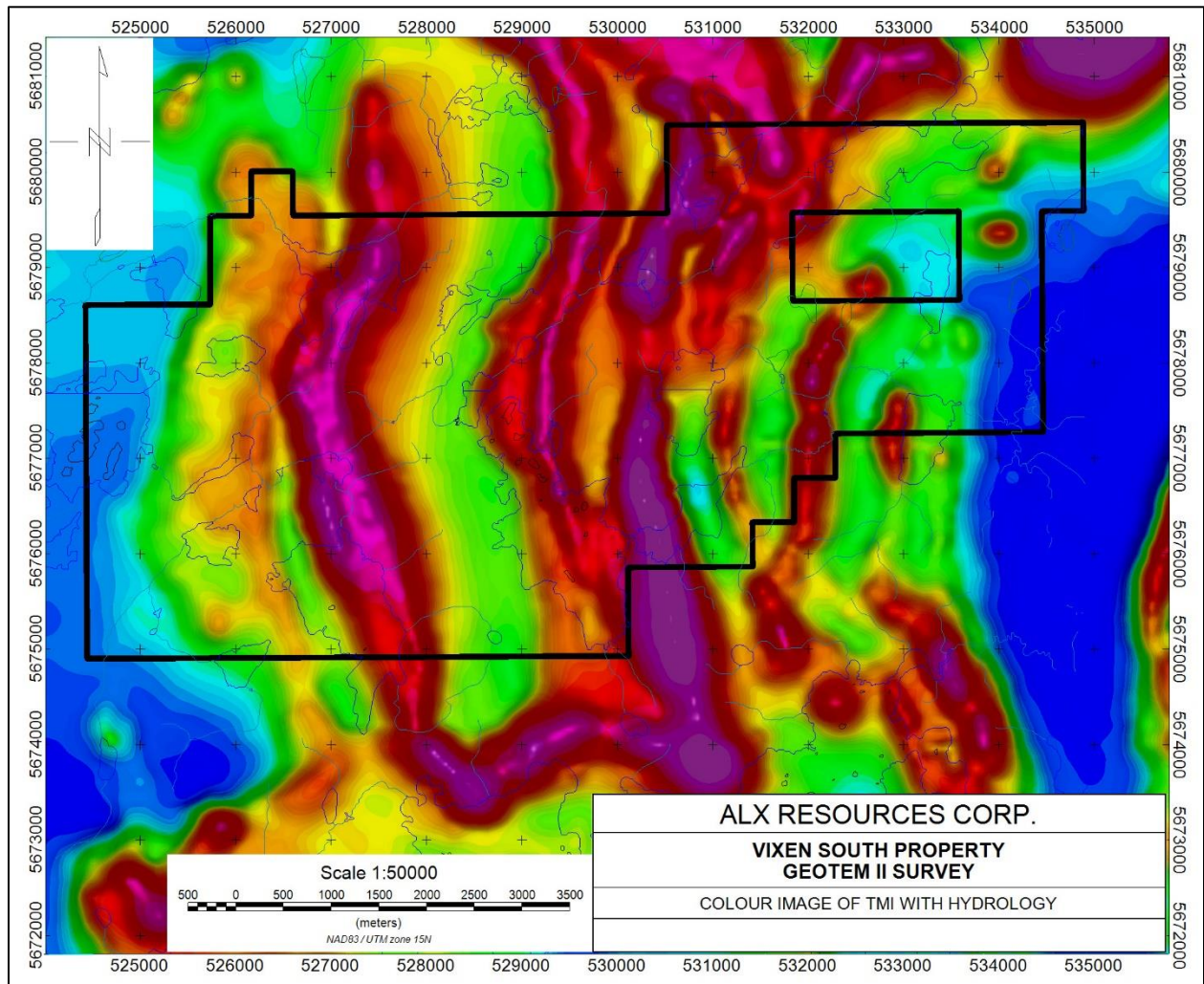


Figure 30: Total magnetic intensity map of Vixen South

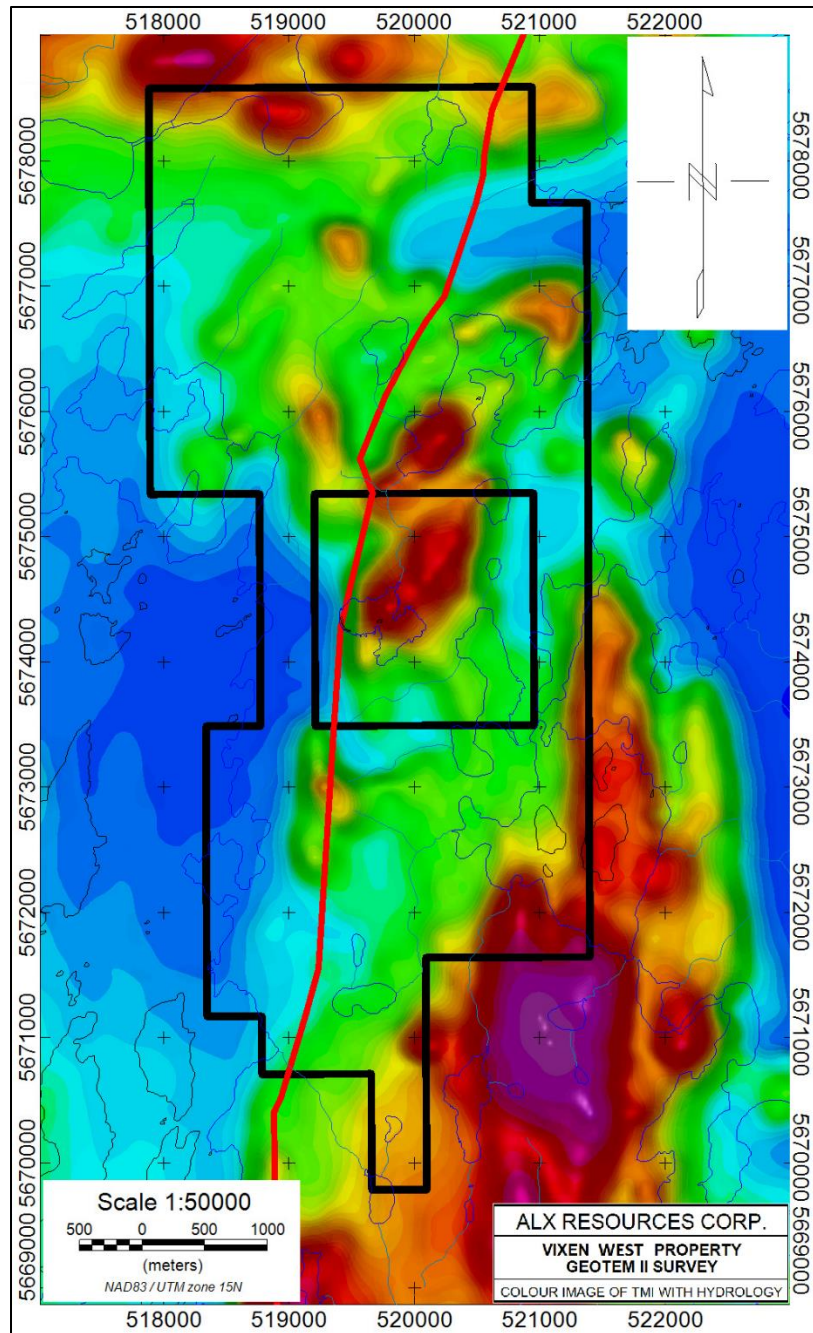


Figure 31: Total magnetic intensity map of Vixen West

1.3 Vixen West

Both crews spent one day of prospecting at Vixen West during Phase I and collected a total of 26 samples. No anomalous gold values over 0.1 g/t were returned (**Error! Reference source not found.**). Sample lithologies range from felsic volcanic to mafic volcanic rocks. The most promising target was a shear zone that historically assayed up to 3.6 g/t; however, this result from the same shearzone could not be reproduced. While results were poor, it should be highlighted that time to properly evaluate the claim block and not sufficient due to the abrupt end of the program and the proximity of gold showings in the center of the block which were not accessed, as well the two (2) anomalously high gold grains and their locatio

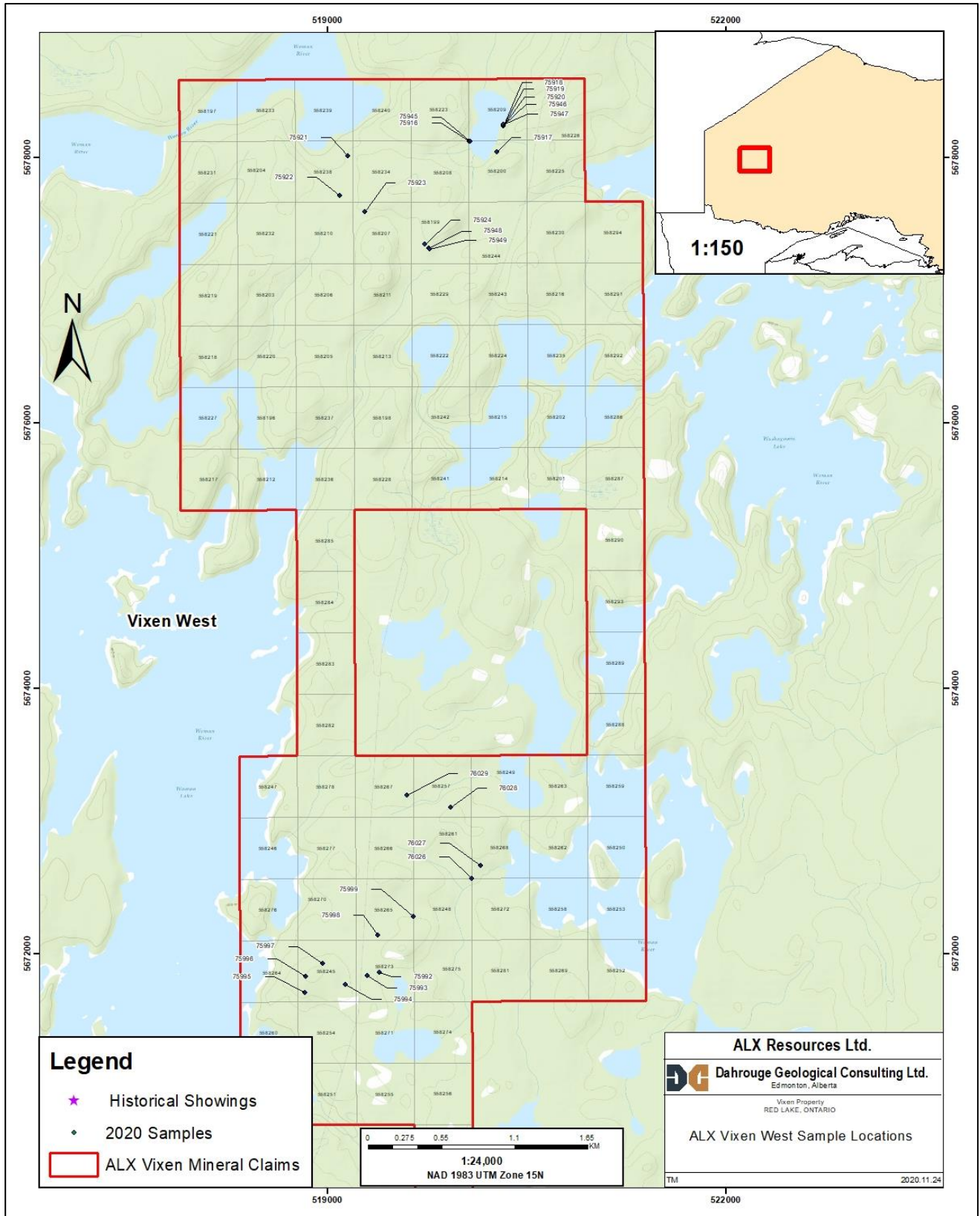


Figure 32. Sample locations Vixen West

J. SUMMARY AND RECOMMENDATIONS

J.1 Vixen North

Vixen North is considered to have strong potential for orogenic gold deposits. The Vulpin Zone and Dickenson Trenches are currently the most advanced high-grade gold showings at Vixen North. The full extent of these showings has not been determined and requires mechanical stripping of overburden and/or drill testing. The known extent of the magnetite-rich part of the Vulpin Zone is currently limited to an area of roughly 10 m x 1 m but open towards the lake (southeast). Gold-bearing mineralization might extend further than the magnetite-rich lithology towards the northwest. The Dickenson Trenches expose a quartz vein system of at least 60 m in length with the main vein up to 20 cm in width, and multiple sets of smaller veins parallel and perpendicular to it. If all trenches encountered quartz veining, the zone could extend to 120 m in length, but this was not confirmed during the 2020 field work as the more southwestern trenches were infilled and overgrown. Grab samples from the Echo Zone show consistently gold grades above the detection limit over a large area; however, they are dominantly below 500 ppb, which is currently considered subeconomic. The newly discovered Magnetite-Fluorite North Showing has high potential because it is open in all directions with promising grades and a favourable gold setting (shear zone). Very limited time has been spent to prospect the abundant subcrop in this area. Based on the structural measurement there could be a direct link between the Vulpin Zone and the Magnetite-Fluorite North showing (Figure 33). The Echo Zone and the Casummit Lake Showing have been worked extensively in the past and delivered decent values; however, the potential is limited because no major discovery was made in several historical trenches (up to 100 m in length at the Echo Zone) despite having important characteristics of orogenic gold deposits such as multiple sets of sulfide-bearing quartz veins. The main Magnetite-Fluorite Main Showing has the least potential, as only few of the samples indicated presence of gold.

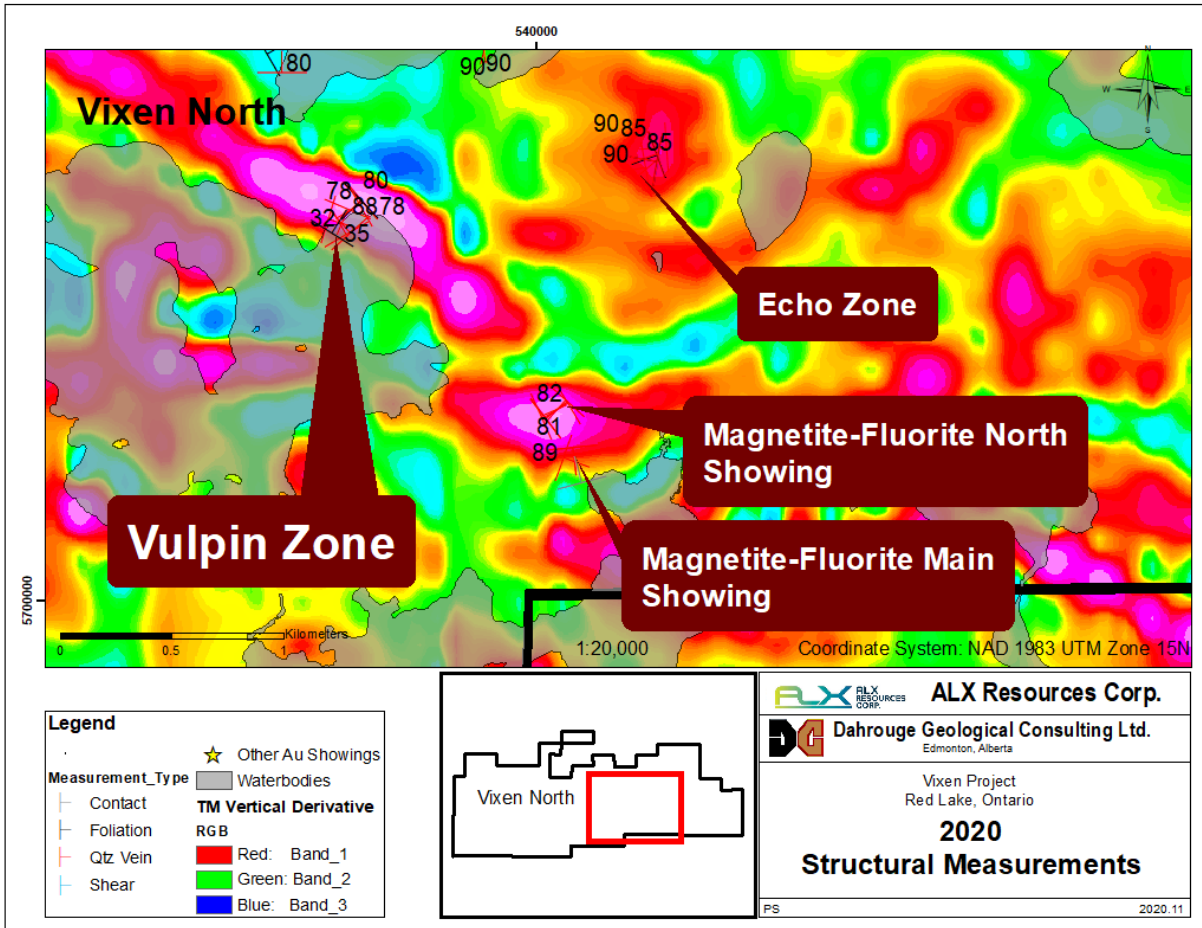


Figure 33: Structural measurements of Vulpin Zone, Magnetite Fluorite (Main and North) and Echo Zone

J.2 Vixen South and West

Vixen South and West are considered to have strong potential for orogenic gold and VMS style deposits. Encountered lithologies at Vixen South and Vixen West are predominantly mafic and felsic volcanic rocks indicating Vixen South and Vixen West provide the right bimodal geological environment to host VMS deposits. The South Bay Mine, located approximately 15 km southwest of the Vixen South Block and 10 km south of the Vixen West Block, produced historically ~50,000 t of Zn-Cu-(Ag) ore strengthening this hypothesis. While no immediate VMS-style mineralization was encountered, the fertility of the felsic volcanic rocks was evaluated based on a trace element discrimination (Figure 36) following the work of Leshar et al., (2011). In summary this research showed that felsic volcanic rocks can be divided into three categories based on their high-field strength element (HFSE) abundance, and REE chondrite normalized pattern. The first category “F1” represents volcanic rocks that have been derived from a deeper source

and are considered to have escaped significant high-level modification, accounting for their distinctive geochemical signatures and the lack of associated base-metal sulphide. In contrast “FII” and “FIII” felsic volcanic rocks are interpreted to have been derived from high-level magma chambers, accounting for their distinctive geochemical signatures and their association with massive base-metal sulphide mineralization. “FIII” rocks are more commonly associated with VMS deposits than “FII” rocks.

Galley (2003) showed that in more primitive, mafic volcanic rock-dominated extensional regimes, the composite intrusions have a tholeiitic composition and associated VMS deposits are Cu(-Au)-rich. The rifting of thicker arc crust, where partial crustal melting takes place at higher pressures, results in a more felsic-dominated, calc-alkalic character for the volcanic succession and the associated composite intrusions. The VMS deposits in these environments tend to be more Zn-Pb-Ag-rich. The rock samples from Vixen South and Vixen West plot along the tholeiitic trend (Figure 35) indicating any potentially occurring VMS deposit could be Cu(-Au)-rich. (Bailes & Galley, 2000) showed that most of the VMS deposits hosted in bimodal basalt–rhyolite sequences of the Flin-Flon belt are at the contact to or within the felsic component which makes them a higher priority target over the mafic volcanic sections. The Ontario Geological Survey Report R177 which includes Map 2404 indicates a Pb-Zn vein occurrence in the eastern part of the Vixen South property (Figure 34) and additionally highlights the potential of VMS deposits within the Vixen South Block. Unfortunately, the vein was not located during the one (1) day of prospecting in that area during Phase II.

It is recommended to spend more time prospecting at Vixen South as it appears highly prospective for orogenic gold and VMS deposits as discussed above.

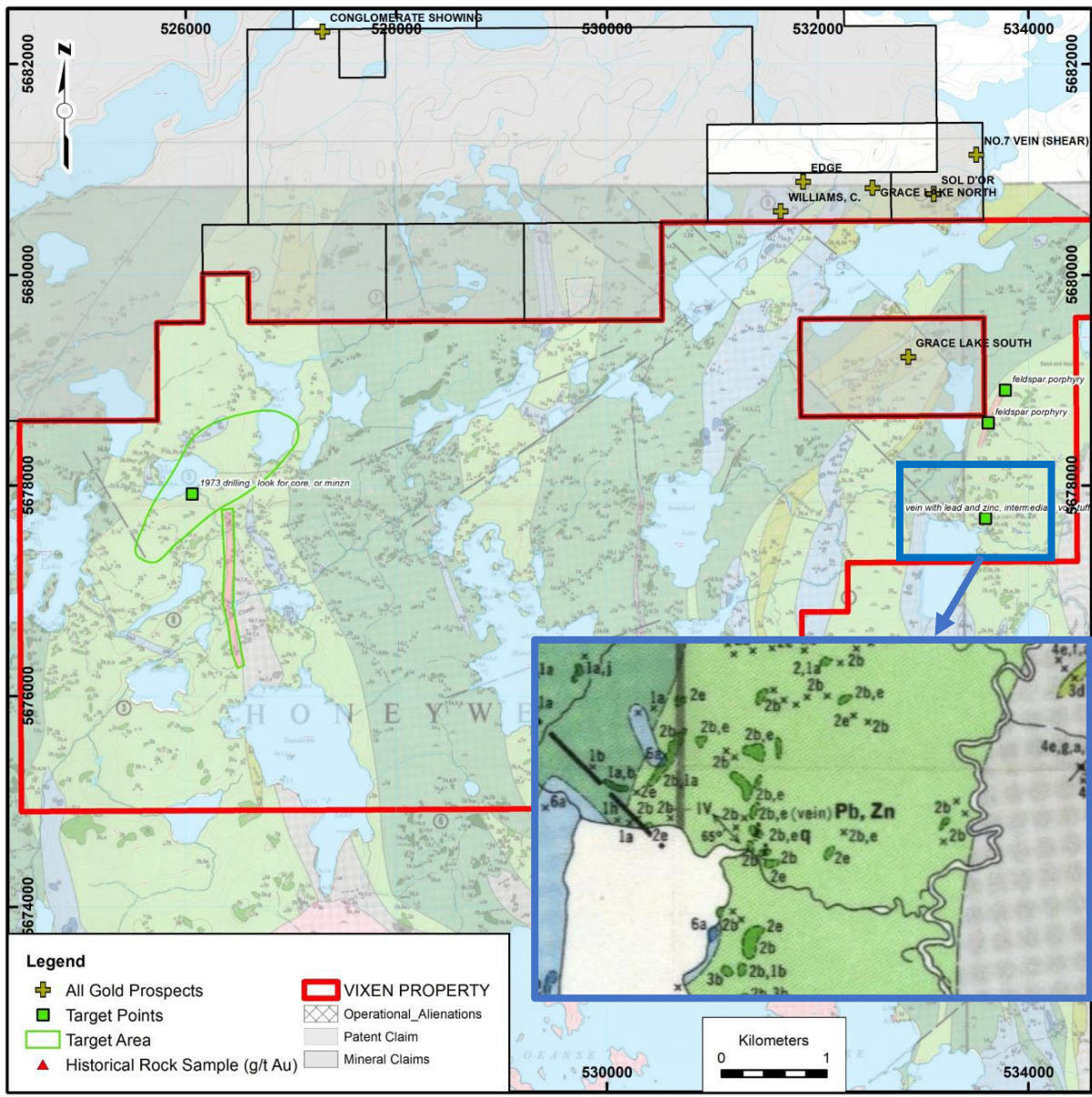


Figure 34: Mapped Zn (sphalerite?), Pb (galena?) vein at Vixen South

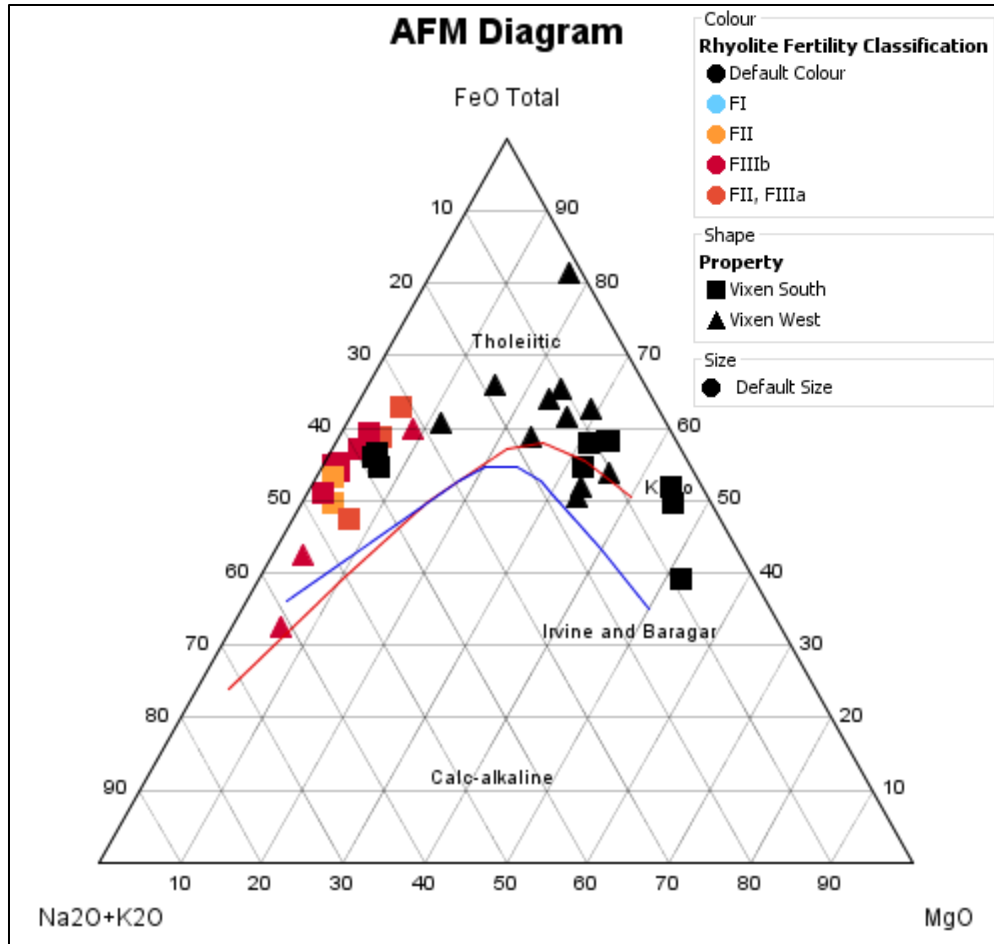


Figure 35: AFM Diagram of Vixen South and West samples

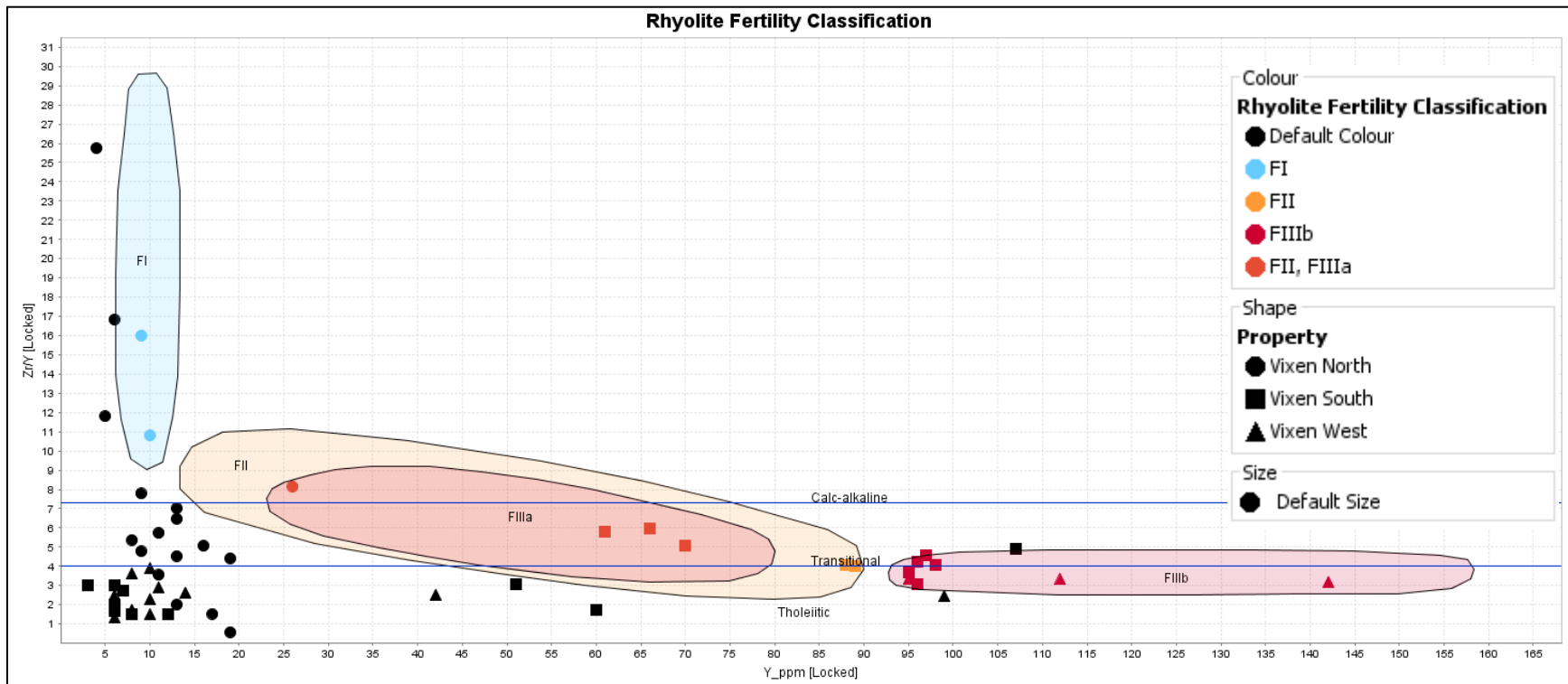


Figure 36: Rhyolite fertility classification after Lesher et al. 1986, datapoints are from Vixen North, Vixen South, and Vixen West. FIIIa and FIIIb fields indicate the highest VMS fertility.

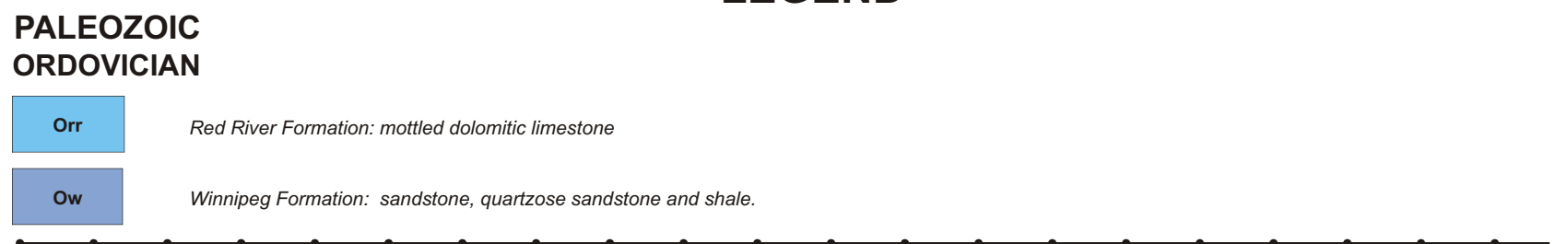
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Appendix 1
Claim Listing

TENURE_NUM	ISSUE_DATE	ANNIVERSARY	HOLDER	BLOCK
558209	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558210	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558212	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558213	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558214	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558215	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558216	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558217	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558218	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558219	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558220	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558221	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558222	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558223	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558224	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558225	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558226	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558227	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558228	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558238	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558229	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558230	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558231	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558232	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558233	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558234	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558235	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558236	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558237	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558240	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558239	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558241	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558242	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558243	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST
558244	2019-09-13	2021-09-13	(100) ALX RESOURCES CORP.	WEST



ARCHEAN (Unsubdivided 2500 - 4000 Ma)

Chs2g ^{[g]gr}	Granodiorite and quartz monzonite (qtz) massive to foliated and gneissic (gg). Banded granitoid orthogneiss (og). May include Mesoprocean plutonic rocks of the North Caribou Terrane.
Ube2n	Tonalite to granodiorite: medium-grained, variably foliated biotite, hornblende-biotite tonalite, and associated rocks; cataclastic adjacent to Longspedged Lake-Palawan Lake fault zone. May include Mesoprocean plutonic rocks of the North Caribou Terrane.
Uho2n	Tonalite to granodiorite: medium-grained, variably foliated hornblende- and biotite-hornblende, and associated rocks. May include Mesoprocean plutonic rocks of the North Caribou Terrane.
Chs2nq	Biotite tonalite and granodiorite: gneissic. May include Mesoprocean plutonic rocks of the North Caribou Terrane.
Chs2nkg	Hornblende tonalite, granodiorite, and quartz diorite (tr) massive to foliated; quartz diorite, Masawa Lake pluton dated at 2779 ± 35 Ma (U-Pb #20). Gneissic (tg). May include Mesoprocean plutonic rocks of the North Caribou Terrane.
Ums2nqgr	Gabbro (gb) intrusive rocks (various ages), includes gabbro and gabbroic anorthosite exposed in western (Trout Bay, Golden Arm) and eastern (Hoyles Bay, Berman Lake) Red Lake, includes plagioclase-phryic dyke cutting Ball assemblage, of Powers Lake with a 2705 ± 8 Ma (U-Pb) plateau age (U-Pb #66), is denoted on map as U-Pb symbol. Ultramafic intrusive rocks (of unknown age and affinity, includes pyroxenites and serpentines.
Usp2nqrl	Gabbro (gb) and diorite (di). May include Mesoprocean plutonic rocks of the North Caribou Terrane.
Ugc2g	Tonalite gneiss of unknown age and affinity.

SUPRACRUSTAL ROCKS OF UNKNOWN AFFINITY

Uus2co	Conglomerate: polymeric pebble and cobble conglomerate consisting of well-sorted volcanic and sedimentary clasts (80%) and granitic and/or intrusive clasts (20%), local graded bedding. Small casts and flame structures. Interbedded wacke.
Uus2mshk ^[m]	Fine siliciclastic rockschert (md), i.e., overlying Trout Bay and Ball assemblages in western Red Lake. Wacke (wk) wacke, felspathic wacke, near north-western Shabu Lake occurs with lesser quartzite and quartzose wacke, locally cut by gabbro, quartzose wacke may be interbedded with conglomerate, marble, calc-silicates rocks and chert-magnetite iron-formation; occurs as narrow screens with migmatitic texture locally, in structural domes at Longspedged and Sydney lakes. Metasedimentary migmatitic gneiss (sm).
Uus2t	Felsic volcanic rocks: dacite to rhyolite, predominantly tuff and lapilli tuff.
Uus2vnt	Epiclastic rocks (sv): wacke, volcanoclastic conglomerate, east of Paopago Lake pluton and central Birch Lake. Intermediate volcanic rocks (li): andesite to dacite, predominantly tuff and lapilli tuff (i.e., Slate Lake area) with lesser flows (i.e., Palawan Lake).
Uus2wtk ^[m]	Mafic volcanic rocks (mv): foliated, massive to pillowed basalt, amphibolite, and associated gabbroic rocks, locally plagioclase-phryic near Springpole and Palawan lakes; lesser associated intermediate to felsic flows, tuff and wacke near Dixie Lake. Amphibolite (am). Ultramafic rocks (m) of uncertain origin and unknown age, west of Red Lake.
Uus2my	Mylonite, phylonite and associated shear zone rocks of uncertain origin and affinity, Garner Lake area.

NEOARCHEAN (Unsubdivided 2500 - 2800 Ma)

Chs5gpl	Quartz monzonite to granodiorite: variably foliated hornblende-bearing quartz monzonite, granodiorite, granite, locally leucocratic and quartz and/or K-feldspar porphyritic.
Khs6grg ^[g]	Granite, granodiorite (gr): massive to weakly foliated, breasted, fine- to coarse-grained monzogranite ± quartz monzonite-tonalite and associated pegmatitic rocks, locally K-feldspar porphyritic. Quartz monzonite to granodiorite (qtz): variably foliated biotite quartz monzonite, granodiorite and granite, locally leucocratic and quartz and/or K-feldspar porphyritic; xenolithic south of Outback Lake.
Khs6gr ^[g] ^[g] ^[g]	Biotite granite to granodiorite (gr): massive to foliated. Biotite granodiorite and quartz monzonite (gg): gneissic.
Khs6grgpl	Hornblende granite to granodiorite (gr). Hornblende quartz monzonite and granodiorite (gpl).
Khs6tr ^[g] ^[g]	Tonalite to granodiorite (tr): massive to foliated, biotite-tonalite to quartz diorite;granodiorite: coarse-grained, granular, white to grey with 10-30% biotites hornblende. Tonalite to granodiorite (tg): gneissic.
Khs6tn	Tonalite to granodiorite: massive to foliated hornblende-tonalite to quartz diorite;granodiorite: coarse-grained, granular, white to grey with 10-30% hornblende biotite. In the Hammett Lake area tonalite contains megacrysts of K-feldspar and is cut by pink granite pegmatite dykes.
Usp6gb ^[d]	Gabbro (gb). Diorite (di)
Gms6gb	Gabbroic rocks: generally undated gabbroic rocks intrusive into Confederation assemblage, including fine-grained tholeiitic dykes and sills intrusive into the ca. 2732 Ma Sundown Lake metasedimentary assemblage; includes the Leg Lake mafic complex.

SUPRACRUSTAL ROCKS OF UNKNOWN AFFINITY

Uus6ek	Wacke: wacke, felspathic wacke with lesser associated argillite, siltstone and minor conglomerate; possibly unconformable on mafic volcanic rocks southeast of Birch Lake.
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NEOARCHEAN (Unsubdivided 2600-2700 Ma)

Gsk1td	Diorite, quartz diorite: hornblende and biotite-hornblende diorite, syenodiorite/quartz diorite with inclusions of English River metasedimentary rocks locally (i.e., Palawan pluton) and mafic volcanic rocks (i.e., eastern Bruce Lake pluton).
Ghs1tyr	Syenite: amphibole syenite of the Missou Bay pluton, south of Slate Lake, possibly part of the intermediate to mafic sanukitoid suite localized along the Uchi-English River interface.
Ghs1tygr ^[g] ^[m] ^[mz]	Granite, granodiorite (gr): massive to variably foliated with associated pegmatitic rocks, known to be post-volcanic and syn- to post-orogenic. Granodiorite, quartz monzonite (qtz): massive to variably foliated biotite-bearing with associated pegmatitic rocks, known to be post-volcanic and syn- to post-orogenic. Muscovite-bearing granite and granodiorite (gm). Monzonite-monzonitic syenite (ms).
Ghs1tyg	Biotite granodiorite and quartz monzonite: gneissic.
Ghs1tygrl	Hornblende granite to granodiorite (gr). Granodiorite and quartz monzonite (gpl).
Khs1mngir	Muscovite-bearing granite to granodiorite (gm). Biotite granite to granodiorite (gr): massive to foliated.
Chs1tygrl	Hornblende granite to granodiorite (gr). Granodiorite and quartz monzonite (gpl).
Ghs1ts ^[g] ^[g]	Tonalite, granodiorite (tr): massive to variably foliated biotite/hornblende tonalite to granodiorite, commonly xenolithic or containing biotite schlieren; locally leucocratic (tr/mgthitic (Tr-S)); intrudes English River metasedimentary assemblage (i.e., 2.7 Ga); with associated diorite and quartz diorite phacoliths (Birch Lake batholith); cataclastic within the Sydney Lake fault zone. Tonalite and granodiorite (tg): gneissic.
Chs1tsn ^[g] ^[g]	Tonalite and granodiorite (tr): massive to foliated. Tonalite and granodiorite (tg): gneissic.
Usp1tyb	Gabbro, pyroxenite, peridotite

NEOARCHEAN (Subdivided 2600-2700 Ma)

Khs2gr	Biotite granite to granodiorite
Gbs2tr	Biotite granite to granodiorite: massive to foliated. Black Lake granite, dated at 2663 ± 7 Ma (U-Pb #23).
Khs2qgm	Muscovite-bearing granite to granodiorite.
Gms5gr ^[g] ^[g]	Parakomelon granite to granodiorite (gr): homogeneous diatexite with >75% 95% medium-grained to pegmatitic granitoid mobilizate, typically garnet and muscovite bearing, locally apatite and tourmaline bearing (i.e. southeast of Jubilee Lake). Commonly contains inclusions and rails of inhomogeneous diatexite; cataclastic within the Sydney Lake fault zone. Inhomogeneous diatexite (gd): 70 to 80% medium-grained to pegmatitic granitoid mobilizate, typically garnet and muscovite bearing, commonly contains inclusions and rails of metastable; cataclastic within the Sydney Lake fault zone; granitic leucosome of Churchill Lake batholith. South-east of the map area at Aldermyr Lake, dated at ca. <2700 Ma with a metamorphic age of 2691± 2 Ma (Corti+ et al., 1995).
Chs6gd	Granodiorite and quartz monzonite pluton dated at Winnipeg Lake at 2696 ±3±2 Ma (U-Pb #41)
Ghs6gpl	Granodiorite/monzonite: massive to weakly foliated, relatively unaltered and unrecrystallized biotite granitoid/monzogranite/quartz monzonite, commonly with megacrysts of K-feldspar and cut by pink granite pegmatite dykes; includes the main phase of the 2697 ± 2 Ma Cat Island pluton (U-Pb #93) at Ranger Lake; a granodiorite from Hammett Peak, Lake batholith, dated at 2691 ± 2 Ma (U-Pb #47). Also includes post-or granodiorite dyke from Crese Zone near Starbuck-Orois, dated at 2696 ± 2 Ma (U-Pb #82), and is denoted on map by U-Pb symbol.
Ghs6gd	Granodiorite/monzogranite-diorite: massive to weakly foliated, relatively unaltered and unrecrystallized hornblende/biotite granodiorite/quartz monzonite, commonly with megacrysts of K-feldspar and commonly cut by pink granite pegmatite dykes; includes the 2699 ± 1 Ma marginal phase of the Cat Lake (U-Pb #94) at Walsh Lake.
Gsk6d	Diorite: diorite-quartz diorite-trochilite and associated pegmatite with elevated Mg and Cr consistent with sanukitoid affinity; mafic satellite phase of the 2698 Ma Bluffy Lake batholith (U-Pb #104).
Gms6gb	Gabbro: coarse-grained, magnetite-bearing gabbro, west of Woman Lake, intrudes Trout batholith and Confederation assemblage, dated at ca. 2699 Ma (U-Pb #103).
Gms6gk ^[g] ^[m] ^[mz]	Diorite dyke cutting 2739 Ma Confederation assemblage, Madson headframe. Contains inherited zircons 2.85 and 2.83 Ga and is dated at 2699 ± 4 Ma (U-Pb internally) (U-Pb #66). Unit is denoted on map as U-Pb symbol.

NEOARCHEAN (Unsubdivided 2700-2800 Ma)

Gsk1zgd	Monzonite-quartz monzonite-granodiorite of sanukitoid affinity where in monzodiorite (minor) ± hornblende- and biotite-phryic with high Mg#, Ni, Co, Ba, and Sr, and is enriched in LREE; granodiorite is moderately foliated and locally charged with felsic xenolites; includes monzodiorite and granodiorite of the Fawcettian Lake stork, near Madson and Prings Pluton.
The2gr	Granodiorite: variably foliated biotite to granodiorite/quartz monzonite and associated pegmatitic rocks, known to be post-volcanic and syn- to post-orogenic. Potassic monzogranite, Hammett Lake pluton, dated south of Hammett Lake at (U-Pb internally) at 2717 ± 2 Ma (U-Pb #60)
The2zgr	Granodiorite: variably foliated hornblende-bearing granodiorite-tonalite of the Berens River arc plutonic complex.
Khs1tyr	Springpole Lake Alkaline Volcanic Complex: carbonate breccia dyke consisting of trachyte porphyry and trachyte breccia, syenite, minor fluorine-bearing tonalite, and associated minette dykes. Preliminary age of ca. 2734 ±23.9± 19 Ma (Baron, 1996).
The2zn	Tonalite: massive to weakly foliated biotite-tonalite to trondhjemite/andesite gneiss and/or intruding <2.745 Ga Confederation assemblage.
Khs1zgd	Hornblende granite to granodiorite
Msp1zgr	Quartz feldspar porphyry
Msp1z6	Diorite, quartz diorite
Oms1z6b ^[m] ^[mz] ^[mz]	Gabbro

NEOARCHEAN (Subdivided 2700-2800 Ma)

Gsk6tnz	Quartz monzonite-granodiorite: massive to weakly foliated amphibole-bearing quartz monzonite-granodiorite/quartz diorite/tonalite, locally biotite porphyritic with elevated Mn, Al and enriched LREE; reflects main ca. 2700 Ma phase of the Ottawa Lake stock (U-Pb #16); see also Gsk1Zgd.
Gbs6tr	Granite-granodiorite-monzogranite-diorite: massive to weakly foliated, relatively unaltered and unrecrystallized biotite granite to granodiorite/monzogranite/quartz monzonite, commonly with K-feldspar megacrysts and cut by pink granite pegmatite dykes. Includes main phase of the 2704 Ma Kitla-Band Batholith (U-Pb #58).
Gbs6trd ^[g] ^[g] ^[g]	Granodiorite dyke, Wilmer West Intrusion, cuts Bruce Channel intermediate volcanics, dated at 2701 ± 1.5 Ma (U-Pb #78).
Wanipigow River complex (Late Phase) 2703 - 2705 Ma	
Khs6trn	Biotite granite to granodiorite. Granite dated at Job Lake at 2703 ± 2 Ma (U-Pb #46).
Khs6trn	Biotite tonalite and granodiorite: massive to foliated. Tonalite dated at Sabourin Lake at 2705 ± 4 Ma (U-Pb #45).

SEDIMENTARY ASSEMBLAGES ca 2700 - 2715 Ma

Fsg6m ^[m] ^[mz]	Metasedimentary migmatite (sm): garnet-biotite-feldspar-quartz greiss, generally metabasite with 10-70% interbedded granitoid mobilizate. Fine-grained clastic rocks and aluminosilicate (nl): biotite-quartz-plagioclase wacke (<10% granitic mobilizate) and associated chert-magnetite tonalite.
Fsg6t	Chert-magnetite iron formation: banded, thinly bedded to thickly laminated chert-magnetite iron formation. Bruce Lake, where related chert-magnetite iron formation has been tectonically thickened, resulting in minable reserves (past-producing Gifflin Mine).
Fsg6c ^[g] ^[g]	Confederation: polymeric pebble conglomerate <i>e.g.</i> , near Madson (Red Lake) where fragmental rocks historically considered correlative with the Au-bearing Austin tuff contain detritus dated at 2.99 Ga, 2.92 Ga, 2.85 Ga, 2.45 Ga, 2.72 Ga with youngest detrital zircons at 2700 ± 6 Ma indicating late-orogenic (molassic) deposition (U-Pb #67).
Manigotagan assemblage ca. 2700 Ma (estimated age)	ENGLISH RIVER SUBPROVINCE
Fsg1z6a ^[m] ^[mz]	Litic arenite (al): Avial-alkali, possible strike-slip basin affinity. Paragneiss and derived migmatitic gneiss (m): marne with organic affinity. Migmatitic gneiss increases southwesterly from gneissic to middle aluminian-amphibole facies, and are believed to be less metamorphosed equivalents to the English River assemblage of the B&O km wide English River metamorphic domain.

Edmunds assemblage < ca. 2703 Ma	RICE-GARNER-BEE LAKES BELT
Fsg1z6b ^[m] ^[mz] ^[mz]	Madstone and siltstone (md). Gneynawake (wk): metasedanite southwest shore of Gem Lake dated at < 2711 ± 2 Ma (U-Pb #33). Derived migmatitic gneiss (sm) Rocks grade from gneissic in the north to middle aluminian-amphibole facies in the south, may be less metamorphosed equivalent of the Manigotagan assemblage. Conglomerate and metasedanite (co): Granodiorite boulder in Kangaroo Lake Formation dated south of Eagle Lake at 2703 ± 2 Ma (U-Pb #62) and metasedanite, dated west of Gem Lake at < 2705 ± 2 Ma (U-Pb #31).
San Antonio assemblage < 2705 Ma	RICE-GARNER-BEE LAKES BELT
Fsg1z6a	Massive 1700 m-thick, coarse quartz arenite with local lenses and beds of conglomerate, unconformably overlies Bidou volcanic assemblage and a felsic pluton that is believed to be synchronous with Bidou volcanism and is the same age as the Ross River pluton. The conglomerate contains a wide variety of sub-rounded to well-sorted clasts of mafic and felsic rocks similar to those of the Bidou assemblage as well as plutonic dikes, vein quartz, rare bedded arenite clasts and fragments of similar composition to clasts. Locally, basal conglomerate contains cobbles of regolithic material. Sandstone west of Rice Lake has a maximum depositional age of 2705 ± 5 Ma (U-Pb #18).

Hole River assemblage < ca. 2707 Ma	LAKE WINNIPEG BELT
Fhs3tcs	Arenite and arkose, with well-preserved graded bedding, pebble lags, scours and trough cross-bedding suggesting deposition in a subaerial fluvial environment. Arkose dated southeast of Black Island, Lake Winnipeg, has a maximum depositional age of ca. 2707 ± 24 Ma (U-Pb #7).
Siderock assemblage < 2709 Ma	WALLACE LAKE BELT

Plumeyic conglomerate and wacke, with clasts of intermediate to felsic volcanic rocks; includes minor sandstone. Typically strongly foliated and deformed, cut by the Winnipeg Lake fault to the south, and has a fault and folded contact with Big Island basalt to the north. Possibly equivalent to the San Antonio assemblage of comparable age. Sandstone dated at Siderock Lake has a maximum depositional age of 2709 ± 5 Ma (U-Pb #93).

LEGEND

Ghs6gpl	Granodiorite-quartz monzonite: weakly foliated, equigranular to porphyritic biotite granodiorite-quartz monzonite, intrudes deformed and locally mineralized strata, includes the ca. 2712 Ma L&S River Lake granodiorite (U-Pb #109) and Shabumen Lake stock (U-Pb #116) in the Birch-Uchi belt, and a 2714 ± 4 Ma quartz-feldspar porphyry (U-Pb #91) that cuts gold mineralization at the Red Lake (formerly A. White) mine.
Gbs7tr	Tonalite to granodiorite: massive to foliated. Granodiorite dated at Eagle Lake at 2720 ± 5 Ma (U-Pb #43). Unit is denoted on map as U-Pb symbol.
Mhs3zn	Granodiorite to quartz diorite and tonalite of the Ross River pluton, includes tonalite dyke cutting Bidou assemblage, 1 km east of Ross Lake pluton dated at 2728 ± 8 Ma (U-Pb #26); dyke is denoted on U-Pb symbol on map.
Msp3zgr	Gumar felsipgar porphyry cutting Bidou tholeiite, east of Stormy Lake, Manitoba dated at 2731 ± 13 Ma(U-Pb #34). Unit is denoted on map as U-Pb symbol.
St. Joseph plutonic suite: synchronous with regional - scale D2 strain (2717 - 2725 Ma)	
Gbs7gd	Granodiorite: variably foliated and recrystallized biotite granodiorite/monzogranite/quartz monzonite, commonly with megacrysts of K-feldspar; cut by pink granite pegmatite dykes and locally by NW-trending metabasaltic dykes (not shown); includes the central 2718 ± 1.1 Ma phase of the Dome stock (U-Pb #75), and may include an intrusion in Slate Bay (Red Lake).
Khs7tgrgd	Hornblende granodiorite to quartz monzonite (gr): variably foliated and recrystallized biotite granodiorite/monzogranite quartz monzonite with minor dioritic marginal phases, including the 2720 ±3/2 Ma McKenzie Island stock (U-Pb #75) and 2720 ±7±5 Ma Azim granodiorite (U-Pb #83); locally with muscovite megacrysts (i.g. near Olive Lake dated at 2722 ± 2 Ma, U-Pb #40). Granodiorite (gd): Granodiorite, foliated, medium- to coarse-grained biotite-hornblende granodiorite and biotite-hornblende quartz monzonite of the 2724 ± 1 ±8.1± 5 Ma Marston Lake batholith (U-Pb #177); commonly monzonite megacrysts; local inclusions of amphibolite.
Khs1z6d	Diorite: variably foliated and recrystallized diorite; includes local argillite- and hornblende-bearing mafic border phases to the ca. 2.72 Ga Dome and McKenzie Island stocks.
Khs7zn	Tonalite: fine- to medium-grained, equigranular, variably foliated, altered, and Au-mineralized tonalite of the 2725 ± 2.5 Ma Horsehoes Island stock (U-Pb #124).

SUPRACRUSTAL ROCKS ca 2718 - 2730 Ma	RICE-GARNER-BEE LAKE GREENSTONE BELT
Gem and Bee assemblages ca. 2718 - 2722 Ma	Felsic volcanic rocks, mainly volcanoclastic. Felsic volcanic breccia, north shore Gem Lake (Manitoba) dated at 2722 ± 2 Ma (U-Pb #38). Anderson Formation felsic tuff, north shore Dixie Lake (Ontario) dated at ca. 2718 ±3/2 Ma (U-Pb #49). Late phases may locally be covered with parts of the Kangaroo Lake Formation wacke (Edmunds assemblage).
Mgm12a ^[m] ^[mz]	Calc-alkaline basaltic andesite and andesite (ca) and tholeiitic basalt and basaltic andesite (th).
St. Joseph assemblage (Springpole Lake) ca. 2723 Ma	BIRCH-UCHI GREENSTONE BELT
Ksp1tr	Porphyritic tuff: porphyritic lapilli tuff dated at ca. 2723 Ma (U-Pb #125). Unit is denoted on map as U-Pb symbol.
Uus1z6t	Intermediate pyroclastic rocks: dacitic tuff horizons in central Springpole Lake.

Guano Island assemblage < ca. 2728 Ma	LAKE WINNIPEG BELT
Mgm12a ^[m] ^[mz]	Three hundred metre wide lens of arkose and conglomerate, separating the Lewis-Stone and Black Island sequences, east of Black Island. Lens is highly deformed with poorly exposed contacts. Detrital zircon provides maximum depositional age of 2728 ± 13 Ma (U-Pb #6), a cluster of 3 Ga detrital apatite points to a North Caribou terrane source region. Unit is denoted by U-Pb symbol on map.

Black Island assemblage ca. 2723 - 2730 Ma	LAKE WINNIPEG BELT
Drumming Point calc-alkaline sequence	
Mbs12ca ^[m] ^[mz]	Calc-alkaline basaltic andesite to andesite (ca): 350-1100 m thick unit of aphyric to plagioclase-phryic, mainly pillowed flows. Intermediate volcanoclastics (sv): up to 100 m of felsitic wacke and cryptic chert nodules; sequence flows upward to mafic zone.

Grey Point tholeiitic basaltic sequence	
Mbs13mv	Rhyolite tuff-breccia and bedded volcanoclastic rocks. Unit 80 - 120 m thick of bedded intermediate volcanoclastic rocks: dominated by plagioclase-phryic rocks, locally with siliceous sandy-siltstone rocks and netrolitic intercalation to felsic volcanic conglomerate, as well as rare rhyolite breccia and pillowed plagioclase-phryic basaltic andesite flows.
Ohs3mv	Basalt and basaltic andesite flows: Upper 700 - 1200 m consists of massive porphyritic basalt and basaltic andesite flows, with rare spiniferites, and local <3 m thick interflow chert units. Also includes rare plagioclase megacrystic and syenitic gneissocratic flows. Thick flows are locally coarse grained.
Mbs12ns	Tholeiitic basalt: Basal 1000 m consists of thick pillowed, aphyric, non-vesicular, basalt and basaltic andesite, commonly with interflow hydroclastic domes; rare thermal contraction cracks and radial pipe vesicles. Grey Point tholeiitic basalt, north of Black Island, dated at 2723 ± 6 Ma (U-Pb #3).

Big Island assemblage age assumed ca. 2725 Ma (not dated)	WALLACE LAKE BELT
Plsg1z6t	Tholeiitic basalt, interflowed gabbro sills; in tectonic contact with Wallace assemblage (>2921 Ma & <2999 Ma) and Siderock assemblage (<2709 Ma).

PLUTONIC ROCKS ca. 2718 - 2737 Ma	
Graves plutonic suite 2730 - 2735 Ma	
Kms72tr	Diorite to quartz diorite: diorites/quartz diorite, gabbro, syenodiorite, commonly plagioclase porphyritic; includes the 2729 ± 1.5 Ma Red Crest stock, south of Hammett Lake, (denoted on map as U-Pb symbol #59) and marginal phases to the Douglas Lake pluton.
Khs7zgr ^[m] ^[mz]	Granite-granodiorite (gr): variably foliated, equigranular medium-grained to K-feldspar megacrystic biotite and less commonly hornblende-bearing granite and granodiorite/quartz monzonite, including the 2734 ±3/2 Ma Hammett Lake batholith (U-Pb #74); calc-alkaline andesite (ca): calc-alkaline andesite; tonalite (tr): foliated to pressure-biotite-bearing tonalite/stronfyllite, including the 2734 ± 2 Ma Douglas Lake pluton (U-Pb #45); calc-alkaline gneiss.
Wanipigow River complex (Early Phase) ca. 2731 - 2737 Ma	
Khs34tn	Biotite tonalite and granodiorite: massive to foliated. Tonalite dated at Wallace Lake at 2731 ± 10 Ma (U-Pb #30) and at Okouwin Lake at 2737 ± 10 Ma (U-Pb #37).
Khs34tn	Hornblende tonalite and granodiorite. Tonalite dated at Donald Lake at 2736 ±3/2 Ma (U-Pb #44).
Khs34g	Felsic dyke cutting tholeiitic basalt of Trout Bay, dated south of Trout Bay at ca. 2736 Ma (U-Pb #51). Denoted on map as U-Pb symbol.

SUPRACRUSTAL ROCKS ca. 2730 - 2740 Ma	RICE-GARNER-BEE LAKE GREENSTONE BELT
Mbs5assemblage ca. 2730 Ma	Felsic-intermediate volcanic rocks (li) and felsic tuff (tr): Hair Island rhyolite tuff, Rice Lake dated at 2729 ± 3 Ma (U-Pb #19) and the Narrans dace, south of Stormy Lake, dated at 2731 ± 3 Ma (U-Pb #82). Intermediate volcanoclastic rocks (li) and calc-alkaline basaltic andesite and andesite.
Ohd12av	Mafic, intermediate and felsic volcanoclastic sedimentary rocks: well bedded.
Mbd12ca	Calc-alkaline basaltic andesite and andesite
Nbd12th	Tholeiitic basalt-- characterized by low vesicle content and minor epidote alteration.

Sundown Lake assemblage ca. < 2732 Ma	BIRCH-UCHI BELT
Ssf12ca ^[m] ^[mz]	Conglomerate (co): massive to poorly-bedded polymeric conglomerate containing pebbles to boulder-size clasts of volcanic and chemical sedimentary rocks, porphyritic and vein quartzite, locally with inclusions of wacke-siltstone. Wacke (wk): thickly laminated to medium-bedded, medium sand size siltic wacke with scours, graded bedding, and ripple cross laminations; minor conglomeratic beds; wacks, north shore of Woman Lake, deposited at ca. <2732 Ma (U-Pb #12); cut by fine-grained basaltic dykes.
Gross assemblage ca. 2732 Ma	RED LAKE BELT
Ksp73tr	Intermediate pyroclastic rocks: intermediate to felsic calc-alkaline pyroclastic rocks including: tuff to grey weathering tuff and biotite- and plagioclase-phryic lapilli tuff. Tuff dated south of Little Vermilion Lake at 2732.8 ± 4.1 Ma (U-Pb #69).
Ksp74gr	Quartz-feldspar porphyry dyke cutting Balmer assemblage, dated at surface, Campbell Mine at ca. 2732 Ma (U-Pb #69).

Huston assemblage > ca. 2733 Ma	RED LAKE BELT
Fhs34kac	Wacke, siltstone, argillite (wk): well-bedded, graded turbiditic wacke, siltstone/argillite, with marlscherts/sulphides and associated skarn, e.g. adjacent to plutons. Conglomerate (co): polymeric conglomerate with inclusions to well-sorted volcanic, plutonic and sedimentary clasts that locally show evidence of intense hydro-thermal alteration, likely prior to recrystallization and metamorphism, possibly syngenic with respect to D1 in the Red Lake belt at ca. 2740 - 2735 Ma. Conglomerate east of Red Lake deposited at ca. 2746 Ma (U-Pb #64) at Madson Power Line locality, and denoted on map as U-Pb symbol, and at ca. 2743 Ma (U-Pb#65) at Balmer cemetery locality.

PLUTONIC AND HYPABYSSAL ROCKS ca. 2740 - 2757 Ma	
Confederation plutonic suite 2740 - 2750 Ma	
Tcf1zpr	Porphyritic rocks: light-weathering, feldspar- and quartz-(± blue quartz) porphyritic, intrusiv/hypabyssal rocks with 20-30% phenocrysts, interpreted to be sub-volcanic to the Confederation assemblage.
Ycf75gr	Porphyritic rocks: light-weathering, feldspar- and quartz-(± blue quartz) porphyritic, intrusiv/hypabyssal rocks with 20-30% phenocrysts; includes the 2742 ±3/2 Ma Brewitt (Balmer Lake) porphyry (U-Pb #92).
Zhs1z6d	Diorite-quartz diorite rocks: with <i>Fill-type REE profiles</i> (high and flat) such as the Swan Lake stock, likely subvolcanic to the <i>Fill-type Agnew</i> sequence in the Birch-Uchi belt, and the <i>tholeiitic Howards</i> , diorite, likely subvolcanic to the ca. 2.74 Ga Heyson sequence, Red Lake belt.
Zhs7gpl	Granodioritic porphyry, granophyic granosilite to quartz-feldspar gabbro intrusions associated with basaltic to rhyolitic flows and pyroclastic rocks of the Confederation assemblage (2740-2750 Ma). Includes the 2744 ±3/2 Ma granophyic granodiorite of the Fournaux Lake stock, east of Confederation Lake (U-Pb #116) and the South Bay porphyry intrusion with associated Cu-Zn-Ag mineralization.
Tms1z6b	Gabbroic rocks: gabbro/gabbroic anorthosite rocks intruding into, and possibly related to, the Confederation assemblage.

Dyke rocks 2749 - 2757 Ma	RED LAKE BELT
Gbs7gr	East Lake granite. Dyke dated cutting shear zone, southern tip of English Lake, 2749 ± 2 Ma (U-Pb #9). Unit denoted on map as U-Pb symbol.
Ycf6	

Sample_ID	Easting	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
75901	542,648	5,702,863	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	1
75902	542,578	5,702,959	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	tr
75903	542,371	5,702,884	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	tr
75904	533,576	5,703,071	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	1
75905	533,430	5,702,993	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	tr
75906	533,665	5,703,001	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	2
75907	533,797	5,702,831	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	5
75908	533,748	5,702,478	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75909	533,612	5,701,897	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	1
75910	533,686	5,701,722	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75911	533,645	5,701,551	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	tr
75912	533,554	5,700,936	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75913	533,485	5,700,842	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75914	525,441	5,676,642	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	tr
75915	525,120	5,676,947	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	1
75916	520,068	5,678,120	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	
75917	520,278	5,678,040	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	Tr
75918	520,322	5,678,236	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	
75919	520,322	5,678,236	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	1
75920	520,322	5,678,236	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	1
75921	519,151	5,678,014	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	tr
75922	519,091	5,677,714	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Seds	0
75923	519,280	5,677,593	Vixen West	(PHASE I) 2020 Summer		Boulder	Grab	Intermediate Volcanics	2
75924	519,736	5,677,348	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	tr
75926	539,117	5,701,690	Vixen North	(PHASE I) 2020 Summer	Vulpin	Outcrop	Grab	Quartz Vein	5
75927	539,120	5,701,691	Vixen North	(PHASE I) 2020 Summer	Vulpin	Outcrop	Grab	Meta-Basalt	20
75928	542,603	5,702,683	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	0
75929	542,641	5,702,673	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	10
75930	542,661	5,702,884	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	1
75931	542,593	5,702,968	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	2
75932	542,354	5,702,888	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Quartz Vein	0
75933	542,144	5,702,780	Vixen North	(PHASE I) 2020 Summer	Casummit	Outcrop	Grab	Meta-Basalt	2
75934	533,574	5,703,066	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	5
75935	533,803	5,699,764	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75936	525,446	5,676,642	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	1

Sample_ID	Easting	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
75937	525,758	5,676,934	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75938	525,958	5,677,084	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75939	525,953	5,677,079	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75940	525,982	5,677,296	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	Tr
75941	525,672	5,677,431	Vixen South	(PHASE I) 2020 Summer		Boulder	Grab	Meta-Basalt	0
75942	525,334	5,677,428	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75943	525,217	5,677,225	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75944	525,122	5,677,078	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75945	520,073	5,678,123	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	Tr
75946	520,325	5,678,245	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75947	520,327	5,678,250	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75948	519,764	5,677,316	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75949	519,772	5,677,307	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75951	539,114	5,701,693	Vixen North	(PHASE I) 2020 Summer	Vulpin	Boulder	Grab	Iron formation	10
75952	539,172	5,701,751	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	05-Jan
75953	538,865	5,702,422	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75954	538,855	5,702,477	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Intermediate Tuff	05-Jan
75955	538,745	5,702,504	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Conglomerate	Tr
75956	538,730	5,702,576	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75957	538,782	5,702,580	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	05-Jan
75958	538,863	5,702,562	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz-Calcite Vein	05-Jan
75959	539,755	5,702,455	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75960	539,756	5,702,453	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75961	540,005	5,702,303	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	0
75962	540,380	5,702,036	Vixen North	(PHASE I) 2020 Summer	Echo	Outcrop	Grab	Meta-Basalt	0
75963	540,490	5,701,926	Vixen North	(PHASE I) 2020 Summer	Echo	Outcrop	Grab	Quartz Vein	0
75964	535,141	5,702,345	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75965	534,906	5,702,423	Vixen North	(PHASE I) 2020 Summer		Boulder	Grab	Quartz Vein	0
75966	534,898	5,702,369	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	0
75967	534,897	5,702,372	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	5
75968	534,805	5,702,380	Vixen North	(PHASE I) 2020 Summer	Dickenson	Muck Pile	Grab	Quartz Vein	05-Jan
75969	534,807	5,702,372	Vixen North	(PHASE I) 2020 Summer	Dickenson	Muck Pile	Grab	Quartz Vein	05-Jan
75970	534,801	5,701,964	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Pyroxynite	05-Jan
75971	534,802	5,701,926	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Pyroxynite	05-Jan
75972	534,508	5,702,040	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Gabbro	0
75973	534,261	5,701,678	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Iron formation	5
75974	534,239	5,701,527	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Gabbro	05-Jan
75976	533,978	5,700,829	Vixen North	(PHASE I) 2020 Summer		Outcrop	Grab	Iron formation	0

Sample_ID	Eastings	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
75977	528,753	5,676,335	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Metased or felsic volcanic	0
75979	528,631	5,676,720	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Gabbro	0
75980	528,608	5,677,111	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Feldspar porphyry (Trachyte?)	0
75981	528,281	5,676,994	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Rhyolite	0
75982	528,120	5,676,953	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Felsic volcanic	0
75983	528,047	5,676,898	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Felsic volcanic	0
75984	527,716	5,676,826	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Felsic volcanic	05-Jan
75985	527,240	5,676,825	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Felsic volcanic	05-Jan
75986	527,034	5,676,616	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	Tr
75987	526,725	5,676,355	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Conglomerate	05-Jan
75988	526,500	5,676,083	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Metased or felsic volcanic	03-Feb
75989	526,414	5,675,845	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	03-Feb
75990	526,879	5,675,198	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Quartz Vein	Tr
75991	526,878	5,675,200	Vixen South	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt?	10
75992	519,392	5,671,861	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metased	05-Jan
75993	519,301	5,671,836	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metased	Tr
75994	519,134	5,671,769	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	05-Jan
75995	518,833	5,671,708	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	05-Jan
75996	518,837	5,671,827	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	Tr
75997	518,964	5,671,926	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metased	0
75998	519,380	5,672,142	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Meta-Basalt	05-Jan
75999	519,646	5,672,279	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metased	Tr
76026	520,088	5,672,569	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metavolcanic	0
76027	520,153	5,672,661	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Qtz-Fsp porphyry	0
76028	519,930	5,673,103	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metased or metabasalt	Tr
76029	519,599	5,673,196	Vixen West	(PHASE I) 2020 Summer		Outcrop	Grab	Metased	Tr
146176	539,113	5,701,697	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Boulder	Grab	Iron formation	30
146177	539,113	5,701,691	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Iron formation	30
146178	539,122	5,701,688	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Boulder	Grab	Iron formation	30
146179	539,121	5,701,690	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Iron formation	30
146180	539,122	5,701,695	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Iron formation	30
146181	539,108	5,701,690	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Chip	Iron formation	20
146182	539,758	5,702,460	Vixen North	(PHASE 2) 2020 Fall		Outcrop	Grab	Quartz Vein	
146183	540,518	5,702,031	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Quartz Vein	

Sample_ID	Easting	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
146184	540,517	5,702,033	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Quartz Vein	
146185	540,473	5,701,997	Vixen North	(PHASE 2) 2020 Fall	Echo	Boulder	Grab	Iron formation	0
146186	540,490	5,701,927	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Quartz Vein	0
146187	540,491	5,701,924	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Feldspar porphyry	5
146188	540,478	5,701,973	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Feldspar porphyry	5
146189	540,479	5,701,974	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Quartz Vein	5
146190	540,402	5,701,909	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Quartz Vein	05-Jan
146191	533,609	5,677,667	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Quartz Vein	0
146192	533,607	5,677,665	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Meta-basalt	1-2
146193	533,671	5,677,712	Vixen South	(PHASE 2) 2020 Fall		Boulder	Grab	Granite or Sandstone	10-May
146194	533,262	5,677,785	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Quartz Vein	
146195	533,265	5,677,783	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Meta-basalt	1
146196	533,214	5,677,769	Vixen South	(PHASE 2) 2020 Fall		Boulder	Grab	Iron formation	0
146197	534,816	5,702,376	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Boulder	Grab	Quartz Vein	10-May
146198	534,809	5,702,374	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Boulder	Grab	Quartz Vein	10-May
146199	534,810	5,702,376	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Boulder	Grab	Quartz Vein	10-May
146201	539,117	5,701,688	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Boulder	Grab	Quartz Vein	0.5
146202	539,116	5,701,686	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Boulder	Grab	Magnetite vein	1
146203	539,107	5,701,769	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Meta-basalt	0
146204	539,188	5,701,752	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Meta-basalt	0
146205	539,759	5,702,461	Vixen North	(PHASE 2) 2020 Fall		Outcrop	Grab	Quartz Vein	0
146206	540,518	5,702,021	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Chip	Quartz Vein	0
146207	540,427	5,701,931	Vixen North	(PHASE 2) 2020 Fall	Echo	Boulder	Grab	Quartz Vein	0
146208	540,492	5,701,936	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Chip	Quartz Vein	1
146209	540,481	5,701,975	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Feldspar porphyry	2
146210	540,482	5,701,980	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Quartz Vein	0
146211	540,481	5,701,980	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Feldspar porphyry	1
146212	540,523	5,702,028	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Feldspar porphyry	1
146213	540,426	5,701,929	Vixen North	(PHASE 2) 2020 Fall	Echo	Outcrop	Grab	Feldspar porphyry	1
146214	533,667	5,677,717	Vixen South	(PHASE 2) 2020 Fall			Composite	Clay	
146215	533,217	5,677,767	Vixen South	(PHASE 2) 2020 Fall		Boulder	Grab	Meta-basalt	1

Sample_ID	Easting	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
146216	532,135	5,677,900	Vixen South	(PHASE 2) 2020 Fall		Boulder	Grab	Meta-basalt	3
146217	534,824	5,702,383	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Outcrop	Grab	Quartz Vein	10
146218	534,822	5,702,389	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Outcrop	Grab	Meta-basalt	5
146219	534,779	5,702,349	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Boulder	Grab	Quartz Vein	3
146220	534,783	5,702,345	Vixen North	(PHASE 2) 2020 Fall	Dickenson	Boulder	Grab	Meta-basalt	3
146226	539,123	5,701,696	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Quartz Vein	tr
146227	539,123	5,701,696	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Meta Basalt	10
146228	539,124	5,701,691	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Quartz Vein	tr
146229	539,124	5,701,691	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Meta Basalt	2
146230	539,126	5,701,693	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Quartz Vein	1
146231	539,126	5,701,693	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Meta Basalt	1
146232	539,173	5,701,753	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Quartz Vein	tr
146233	539,173	5,701,753	Vixen North	(PHASE 2) 2020 Fall	Vulpin	Outcrop	Grab	Meta Basalt	1
146234	539,161	5,701,747	Vixen North	(PHASE 2) 2020 Fall		Outcrop	Grab	Quartz Vein	tr
146235	539,541	5,701,508	Vixen North	(PHASE 2) 2020 Fall		Outcrop	Grab	Meta Basalt	0
146236	539,994	5,701,168	Vixen North	(PHASE 2) 2020 Fall		Outcrop	Grab	Meta Basalt	tr
146237	540,400	5,700,693	Vixen North	(PHASE 2) 2020 Fall		Outcrop	Grab	Meta Basalt	0
146238	540,178	5,700,624	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Rhyolite	tr
146239	540,178	5,700,624	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Rhyolite	tr
146240	540,177	5,700,620	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Rhyolite	3
146241	540,174	5,700,632	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Rhyolite	tr

Sample_ID	Easting	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
146242	540,172	5,700,617	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Meta Basalt	tr
146243	540,187	5,700,614	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Pegmatite	tr
146244	540,189	5,700,614	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Pegmatite	3
146245	540,186	5,700,595	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Rhyolite	tr
146246	540,186	5,700,595	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Meta Basalt	0
146247	540,189	5,700,619	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Meta Basalt	tr
146248	540,186	5,700,541	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Rhyolite	1
146249	540,176	5,700,613	Vixen North	(PHASE 2) 2020 Fall	MF	Outcrop	Grab	Meta Basalt	1
146250	533,609	5,677,662	Vixen South	(PHASE 2) 2020 Fall	Zinc Lead Vein	Outcrop	Grab	Quartz Vein	0
146251	533,609	5,677,662	Vixen South	(PHASE 2) 2020 Fall	Zinc Lead Vein	Outcrop	Grab	Meta Basalt	tr
146252	533,749	5,677,746	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Pegmatite	0
146253	533,749	5,677,746	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Meta Basalt	0
146254	533,646	5,678,659	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Quartz Vein	0
146255	533,646	5,678,659	Vixen South	(PHASE 2) 2020 Fall		Outcrop	Grab	Porphyritic Feldspar Granite	0
146256	538,427	5,701,478	Vixen North	(PHASE 2) 2020 Fall	Island	Sediment	Grab	Clay	
146257	538,376	5,701,583	Vixen North	(PHASE 2) 2020 Fall	Island	Outcrop	Grab	Pyroxenite	0
146258	538,351	5,701,599	Vixen North	(PHASE 2) 2020 Fall	Island	Outcrop	Grab	Pyroxenite	3
146259	538,638	5,701,099	Vixen North	(PHASE 2) 2020 Fall	Island	Outcrop	Grab	Meta Basalt	3
146260	540,138	5,700,871	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Gabbro	0
146261	540,086	5,700,856	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Gabbro	2
146262	540,085	5,700,856	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Gabbro	3
146263	540,085	5,700,856	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Quartz Vein	3
146264	540,085	5,700,856	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Gabbro	5

Sample_ID	Easting	Northing	Property	Program	Target	Sample_Source	Sample_Type	Rock_Type_Field	Percent Sulphides (%)
146265	540,084	5,700,855	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Gabbro	2
146266	540,080	5,700,854	Vixen North	(PHASE 2) 2020 Fall	MF North	Outcrop	Grab	Gabbro	10

Sample_ID	Minerals	Comments
75901	Disseminated Pyrite	No noticeable foliation or shearing
75902	Trace Sulphides	2cm wide qtz vein; Thick moss cover therefore no measurement
75903	Trace Sulphides	carbonate and qtz stringers
75904	Pyrite concentrated around margin of vein	Vein hosted in metabasalt with strong foliation 030/74
75905	Pyrite concentrated around margin of vein	Veins are folded
75906	Pyrite concentrated around margin of vein	Sample was under uprooted tree with strong foliation
75907	Vein	Pyrite mineralization extends into the wall rock 10cm; Banding of Quartz and dark material (Host rock?)
75908	No Visible Sulphides	Veins were pinching out with a lense shape and were convoluted
75909	Disseminated Pyrite	No dip obtainable
75910	No Visible Sulphides	Vein is folded; Foliation 349/72
75911	Pyrite	Not able to obtain dip
75912	No Visible Sulphides	Strong deformation causing quartz veins to pinch out and form lenses; Possible
75913	No Visible Sulphides	Observed minor 1mm plagioclase laths; Foliation has the same orientation as qtz vein
75914	Disseminated Pyrite and Arsenopyrite (?) along vein edge	Swarm of quartz carbonate veins
75915	Local clusters and disseminated pyrite and Arsenopyrite (?) in quartz carbonate vein swarm	Due to cover no good surfaces to accurately determine dip and trend is also a rough estimate; Possible Arsenopyrite
75916		
75917	Trace Pyrite and Chalcopyrite	
75918		
75919	Sulphides had weathered out but left cubic impression in rock - Pyrite; Supergene copper minerals present suggesting copper sulphides	Shear and foliation have the same orientation
75920	Sulphides primarily around margins	Outcrop has abundant veining averaging 5-10cm
75921	py, po (?)	Outcrop is rounded therefore structure measurements are rough estimates
75922	No Visible Sulphides	Quartz eye/lense pervasive texture with chlorite wrapping around. Qtz eyes elongated with a 079 azimuth. Eyes appear lineated and vertically oriented. Vein swarm present
75923	Cpy, py, po (?)	Rock is strongly magnetic and must contain magnetite. Could not dig deep enough beneath tree to find outcrop.
75924	py	Sample found in area proximate to historical 3.61g/t sample. Abundant micro-fractures. Nearby outcrop had vesicular metabasalt
75926	Disseminated Course Euhedral Pyrite 1-5mm	
75927	Disseminated Course Pyrite (Metabasalt Contacting Vein)	Magnetite-bearing
75928	No Visible Sulphides	Unable to get veining measurements due to lichen and moss covering OC
75929	Locally Disseminated Pyrite	Historic Trench
75930	Veinlets of Pyrite Along Foliation	Hematite-bearing
75931	Disseminated Course-Grained Pyrite	
75932	No Visible Sulphides	Vein along foliation of 282/80
75933	Localized blebs of Pyrite	Foliation highly variable
75934	Disseminated Pyrite and Arsenopyrite (?) along vein edge	Same vein as sample 75904
75935	No Visible Sulphides	
75936	Disseminated Pyrite	

Sample_ID	Minerals	Comments
75937	No Visible Sulphides	Moss covered outcrop
75938	No Visible Sulphides	35cm thick vein; metabasalt host rock
75939	No Visible Sulphides	35cm thick vein; fine amphibole/pyroxene(?) and potassic feldspar within vein; contains brecciated meta-basalt wall rock
75940	Disseminated Medium-Grained Pyrite	Cm-scale qtz veins with variable orientation
75941	No Visible Sulphides	Scarce outcrop in the area; an uprooted tree exposed till mixed with angular meta-
75942	No Visible Sulphides	Scarce outcrop in the area; moss covered
75943	No Visible Sulphides	Quartz veining is massive and very fine. Scarce outcrop in the area; moss covered
75944	No Visible Sulphides	
75945	Tr Arsenopyrite within vein	
75946	No Visible Sulphides	Old flagging tape at this exact location (likely a historical sampling location)
75947	No Visible Sulphides	Quartz veining has varying orientations, OSFT (open space filling textures) and is dominantly euhedral and coarse
75948	No Visible Sulphides	Structure measurement is rough; sample taken near historic 3.61 g/t sample; smaller 2-5cm veins adjacent to main vein in wall rock
75949	No Visible Sulphides	Meta-Basalt wall rock adjacent to quartz vein (Sample 75948)
75951	Magnetite, Pyrite	Basalt hosted iron formation or secondary alteration, approx. 30% magnetite, 10%
75952	Pyrite	
75953	No Visible Sulphides	Folded vein, second limb is 140/70
75954	Pyrite	Might be breccated
75955	Pyrite	Potential shearzone, up to 10 cm angular clasts including felsic intrusive rocks
75956	No Visible Sulphides	10 m exposed, approximately 5-8 cm wide. Might extend further
75957	Pyrite	Sulphides at contact to host rock, previously sampled in 2002 with 64966 sample ID
75958	Pyrite	4 cm wide vein
75959	No Visible Sulphides	20 cm wide vein, wallrock sample 75960
75960	No Visible Sulphides	
75961	No Visible Sulphides	small moss covered ridge in area with no other OC
75962	No Visible Sulphides	
75963	No Visible Sulphides	
75964	No Visible Sulphides	Several veins
75965	No Visible Sulphides	Rusty staining indicates former presence of sulphides
75966	No Visible Sulphides	Sulphides in adjacent host rock (sample 75967)
75967	Pyrite	Host to qtz vein in 75966
75968	Chalcopyrite, pyrite	From former trench/micro mining operation
75969	Pyrite	From former trench/micro mining operation
75970	Pyrrhotite	Stringers of po
75971	Pyrrhotite	Stringers of po
75972	No Visible Sulphides	
75973	Pyrite	
75974	Pyrite	
75976	No Visible Sulphides	very dense

Sample_ID	Minerals	Comments
75977	No Visible Sulphides	breaks easily
75979	No Visible Sulphides	
75980	No Visible Sulphides	
75981	No Visible Sulphides	quartz phenocrystals or vug filling
75982	No Visible Sulphides	
75983	No Visible Sulphides	
75984	Chalcopyrite, pyrite	2 quartz veins
75985	Chalcopyrite, pyrite	2 quartz veins
75986	Pyrite	
75987	Pyrite	Up to 15 cm granite clasts, groundmass mudstone?
75988	Pyrite	1 mm euhedral pyrite cubes
75989	Pyrite	
75990	Pyrite	Sulphides close to wallrock clasts
75991	Pyrite	disseminated pyrite
75992	Pyrite	easy to break
75993	Pyrite	Greywacke?
75994	Pyrrhotite	disseminated po
75995	Pyrrhotite, pyrite	
75996	Pyrrhotite, pyrite	
75997	No Visible Sulphides	
75998	Pyrrhotite, pyrite	
75999	Pyrite	easy to break
76026	No Visible Sulphides	vugs filled with qtz+cal
76027	No Visible Sulphides	
76028	Pyrite	
76029	Pyrite	
146176	Pyrite, magnetite, quartz	Host is metabasalt, the sample is from a magnetite-rich zone (smoker?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary
146177	Pyrite, magnetite, quartz	Host is metabasalt, the sample is from a magnetite-rich zone (smoker?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary
146178	Pyrite, magnetite, quartz	Host is metabasalt, the sample is from a magnetite-rich zone (smoker?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary
146179	Pyrite, magnetite, quartz	Host is metabasalt, the sample is from a magnetite-rich zone (smoker?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary
146180	Pyrite, magnetite, quartz	Host is metabasalt, the sample is from a magnetite-rich zone (smoker?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary
146181	Pyrite, magnetite, quartz	Host is metabasalt, the sample is from a magnetite-rich zone (smoker?) which is at this spot coincident with shear/fault zone with quartz vein. Pyrite seems secondary
146182	Quartz	
146183	Quartz	qtz vein folded, multiple veins present, some sulfides and maybe VG, however tiny spec which could also be oxidized pyrite

Sample_ID	Minerals	Comments
146184	Quartz	qtz vein folded, multiple veins present, some sulfides
146185	Magnetite	30% mafic groundmass and 70% magnetite, boulder 2x1x1 m, some quartz veinlets
146186	Quartz	Wallrock is 146187
146187	Fsp, pyrite, f.g. groundmass	Wallrock of sample 146186
146188	Fsp, pyrite, f.g. groundmass	Wallrock of sample 146188, 280/85 dipdirection/dip of foliation and vein
146189	Quartz, pyrite	Wallrock is 146189, 280/85 dipdirection/dip of foliation and vein
146190	Quartz, pyrite	From historic trench, direction of vein uncertain as trench is partially filled in
146191	Quartz	several smaller veins (up to 10 cm) are parallel, wallrock sample is 146192
146192		Qtz vein is 146191, trace sulfides
146193	Quartz, pyrite	Boulder found in hole over conductor indicated by beep mat, either weathered granite or sandstone with sulfides.
146194	Quartz	Shallow dipping, some unknown silvery (hematite?) mineral, wallrock sample is 146194
146195	Quartz, pyrite	Wallrock to quartz vein 146194
146196	Magnetite	Beep mat indicated -1200 mag, boulder thoroughly weathered
146197	Quartz, cpy, py	vein has multiple thin wallrock bands (inclusions) indicating multiple reopening events
146198	Quartz, cpy, py	vein has multiple thin wallrock bands (inclusions) indicating multiple reopening events
146199	Quartz, cpy, py	vein has multiple thin wallrock bands (inclusions) indicating multiple reopening events
146201	Pyrite, quartz	Weakly magnetic, pyrite is disseminated in silicified meta-basalt, veins/breccia 30% of sample, chlorite? in core of one vein
146202	Pyrite, magnetite	1mm pyrite and 2mm oxidised pyrite in 0.5mm euhedral magnetite groundmass. May have been displaced from the vein by previous trenching.
146203	Chlorite	Aphanitic chloritized meta-basalt taken from large cliff outcrop.
146204	Chlorite, magnetite	Aphanitic chloritized meta-basalt. Magnetic.
146205	Quartz	Iron oxide at contacts to meta-basalt. Vein varies from 10cm to 60cm, this is from
146206	Quartz	Continuous >10m, 5-20cm wide. Iron oxide staining. Meta-basalt is very bleached.
146207	Quartz	Next to 80s ESSO trench.
146208	Quartz, pyrite	Sample contains vein and host, vein is continuous >10m, host is magnetic and chloritised, pyrite is oxidised and disseminated in host, no sulphides in vein, vein is iron
146209	Pyrite, chlorite, quartz	Feldspar porphyry with disseminated pyrite proximal to massive white quartz vein (146210), cut by 1mm iron oxide stained quartz veins.
146210	Quartz	40-50cm wide, multiple veins cutting chloritised feldspar porphyry. Sulphides are mostly disseminated within the host (146209, 146211).
146211	Pyrite, chlorite	Feldspar porphyry with disseminated pyrite proximal to massive white quartz vein
146212	Pyrite, chlorite	Feldspar porphyry proximal to massive white quartz vein (146207)
146213	Pyrite, chlorite, quartz	Feldspar porphyry with network of 1-10cm quartz veins. Pyrite is disseminated in host rock. Quartz veins have iron oxide selvages (not stain).
146214		Clay with 130HFR, -123MAG measured with BeepMat from 140cm deep hole. Hole abandoned due to water infiltration and collapse. At surface, BeepMat indicated 15HFR, -18MAG. Change in values indicates closing in on a conductor.
146215	Pyrite, magnetite	Sheared, weakly magnetic meta-basalt with very fine grained pyrite mostly along shear

Sample_ID	Minerals	Comments
146216	Pyrite, magnetite	Very magnetic meta-basalt with 1-3% pyrite 1mm. Magnetite is very fine grained. Nearby point has -1500HFR, -1300MAG indicating very magnetic potential target.
146217	Chalcopyrite, pyrite, quartz, chlorite	Meta-basalt with 1-5cm wide quartz-chlorite veins and 0.5cm chlorite veins. Veins have 10% sulphides (1-3cm by 1cm clots of massive 90% pyrite and 10% chalcopyrite), with green copper oxides around sulphide clots. Disseminated pyrite in host rock 3%. Outcrop in old Dickenson trench. This sample has more qtz vein and
146218	Chalcopyrite, pyrite, quartz, chlorite	Meta-basalt with 1-5cm wide quartz-chlorite veins and 0.5cm chlorite veins. Veins have 5% sulphides (1cm clots of 90% pyrite and 10% chalcopyrite). Disseminated 1mm pyrite in host rock 3% mostly along chlorite veins. Outcrop in old Dickinson trench. Less qtz vein and more host rock than 146217.
146219	Pyrite, quartz	Meta-basalt with 7-20cm wide qtz veins, pyrite disseminated in host rock and concentrated at vein margins, 3mm at margins and 0.1mm in host. This sample is mostly vein, 146220 is mostly host. Boulder from old Dickinson trench.
146220	Pyrite, quartz	Meta-basalt with 7-20cm wide qtz veins, pyrite disseminated in host rock and concentrated at vein margins, 3mm at margins and 0.1mm in host. This sample is mostly host, 146219 is mostly vein. Boulder from old Dickinson trench.
146226	Quartz, pyrite, tourmaline?	Weak Ep and Fe oxidation (local). Vein wavy, sheared and foliated. Minor host fragments in vein. Vein cuts weakly cuts foliation.
146227	Chlorite, amphibole, pyrite	Chlorite alt pervasive mod-strong. Wall rock sample of 146226. OC very hard, flat.
146228	Quartz, pyrite	Same vein as sample 146226. Vein folded, sampled at boudin. Trending 017°, dip
146229	Chlorite, amphibole, pyrite, magnetite	Chlorite alt pervasive mod-strong. Wall rock sample of 146228. 1mm pyrite cubes sometimes appearing fresh, other times rusty. Sulphides visible 20cm from vein
146230	Quartz, pyrite	Same vein as sample 146226. Fe-ox lining fractures. Pyrite trace but coarse (<2%?). Vein steeply dipping in system?
146231	Chlorite, amphibole, plagioclase, quartz, pyrite	Chlorite alt pervasive mod-strong. Some pyrite casts. Wallrock sample of 146230. Hard to take sample due to OC flatness and hardness.
146232	Quartz, pyrite	Same sample station as 75952, taking vein and wallrock this time. Wallrock banded
146233	Chlorite, amphibole, plagioclase, pyrite	Chlorite alt pervasive mod-strong. Wallrock sample of 146232. 1mm pyrite cubes
146234	Chlorite, amphibole, plagioclase, quartz, magnetite, pyrite	70m from Vulpin showing. Pervasively-strongly CHL altered. Magnetite vfg (not visible). -695 HFR; -695 MAG. Mix of vein and metabasalt.
146235	Chlorite, amphibole, plagioclase, quartz, magnetite	CHL pervasive, strong. Had to dig to sample, likely OC but not certain. Found on MAG
146236	Chlorite, amphibole, plagioclase, quartz, magnetite, pyrite	Localized MAG high along fracture. Pervasively strong CHL altered. HFR -630; MAG -540. Trace amounts of magnetite. Located over quartz veinlet? Quartz found
146237	Chlorite, amphibole, plagioclase, quartz, magnetite	MAG high OC.
146238	Quartz, feldspar, fluorite, pyrite, magnetite	Hematite alt along fractures? Tr disseminated pyrite in rhyolite and veins. Localized fluorite in quartz veins; occurs as blebs and stringers; fg dark purple-black. Very soft black stringers; unidentifiable minerals.
146239	Quartz, feldspar, fluorite, pyrite, magnetite	Weak hemaite/potassic alteration. Trace disseminated pyrite in quartz veins and rhyolite, fluorite associated with veins (dark purple-black).
146240	Quartz, feldspar, fluorite, pyrite, magnetite	Cubes of dark purple fluorite (few mm). Hematite alt mod-strong.
146241	Quartz, feldspar, fluorite, pyrite	localized pervasive hematite alteration

Sample_ID	Minerals	Comments
146242	Chlorite, mafics, pyrite, quartz	Mod-strong Hem alteration along fractures, vein is folded. Mix of phyllite meta-basalt and quartz vein in sample.
146243	Quartz, kspar, pyrite, unidentifiable black mineral	Strong potassic alteration, likely pegmatitic. Strong local hematite alteration along fractures. OC is brecciated by pegmatitic veins. Local open space fill. Quartz vein is shallowly dipping, trending 318. Likely representing the real MF showing?
146244	Quartz, kspar, pyrite, unidentifiable black mineral, rhyolite host rock	Locally vuggy, OC is brecciated by 1-20 cm quartz veins. Disseminated pyrite in vein and host rhyolite. Potassic altered rhyolite clasts in vein. Rhyolite vfg. Same OC as 146243, 1.5 m north. Mix of veins and wallrock.
146245	Quartz, feldspar, pyrite, fluorite, magnetite	Fluorite localized in quartz veins, trace disseminated pyrite in veins and rhyolite host, 1-2% magnetite. Contact of meta-basalt phyllite found at contact.
146246	Chlorite, mafics, pyrite, quartz	Strong chlorite alteration. Same OC as 146245.
146247	Chlorite, mafics, magnetite, quartz	metabasalt near contact with veined rhyolite
146248	Quartz, feldspar, fluorite, pyrite	No/trace potassic/hematite alteration lining fractures. Fluorite is localized within veinlets. Pyrite is cg, 5% in vein and 5% in rhyolite.
146249	Chlorite, mafics, pyrite, quartz, magnetite.	Pyrite restricted to mm scale quartz veinlets. Chlorite alteration pervasive, strong.
146250	Quartz	Thick vein but variable. Cross cutting foliation.
146251	Chlorite, mafics, quartz, pyrite	wallrock of sample 146250. Strong pervasive CHL alt.
146252	Quartz, unidentifiable black mineral, calcite	Possible vcg quartz vein. Black mineral non-magnetic, scratches black, 90° cleavage, relatively hard. Local calcite (effervescence)
146253	Chlorite, mafics, quartz	Wallrock of sample 146252. Pervasive strong CHL alteration. Location may have been historically sampled, potentially has pit with excavated PEGM material.
146254	Quartz	Nearly all quartz, no alteration, no sulphides, not a conductor.
146255	Kspar, quartz, granitic groundmass	Wallrock sample of 146254. No sulphides, potassic alt likely focused adjacent to veins, boundary not observed? Quartz vein very rubbly.
146256	Clay	Sample taken at 60cm depth. HFR 107; MAG -46 at 60cm depth. HFR and MAG increasing with depth. No rock found
146257	Pyroxene, serpentine, feldspar, magnetite	Very magnetic. Serpentine alteration pervasive, may also have chlorite alteration.
146258	Pyroxene, serpentine, feldspar, magnetite, chlorite, pyrrhotite, pyrite	CHL alteration pervasive, very magnetic. OC found at island shore.
146259	pyroxene, feldspar, magnetite, pyrite, quartz	Pyrite cubes up 3mm. May be same mineralogy as rest of OC on Island, just sheared? Qtz vein steeply dipping, cutting across foliation. Pervasive strong CHL alteration. Pyrite disseminated near vein. May be silicified.
146260	pyroxene, magnetite, feldspar	Strongly magnetitic, no visible alteration/sulphides.
146261	Chlorite, pyroxene, feldspar, pyrite	Weak Fe-ox vein/fracture related, 1-2mm quartz veinlets. Mg pyrite cubes in veinlets, some disseminated pyrite in wallrock. 5% of sample is vein material.
146262	Quartz, limonite, pyroxene, feldspar	Pyrite in vein and in wallrock; pyrite is fg-mg, sometimes occurring as cubes. Sample is from gossanous material in OC, 10cm wide over the strongest Fe-ox. Non-magnetitic.
146263	Quartz, pyrite, some wallrock (Sample 146264) in sample.	Many cm scale quartz veins in OC, up to maximum 5cm thickness. Pyrite up to 20% at vein edge, lesser throughout sample. Fe-ox very intense throughout.
146264	Pyroxene, feldspar, quartz, pyrite	Fracture related Fe-ox, localized and strong limonite alteration. 5% mg-cg disseminated pyrite cubes. <5% quartz vein in sample. Wallrock of 146264

Sample_ID	Minerals	Comments
146265	Pyroxene, quartz, feldspar, pyrite, limonite	Strong Fe-ox. Quartz is dark grey and massive. Minor (1-2%) pyrite. Up to 20-25% disseminated pyrite near veins.
146266	Pyroxene, feldspar, quartz, pyrite	Silica flooding near vein, up to 10cm on either side of quartz vein. Moderate CHL alteration, up to 15% disseminated pyrite cubes adjacent to vein in silicification zone. Two quartz veins intersect at this sample location.

Sample_ID	Au_ppb	Au_ppm	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	Hg_ppm	K_pct	Mg_pct
75901	0	0	0.4	7.46	7	155	1	4	5.71	0	45	9	102	12.5	22	6	0.69	2.27
75902	0	0	0	6.9	0	119	0	0	9.26	0	34	62	88	6.71	15	1	0.54	1.81
75903	0	0	0	7.49	0	171	0	0	6.6	0	39	32	64	8.96	16	3	0.67	2.9
75904	0	0	0	0.27	0	15	0	0	0.41	0	2	9	4	0.79	0	0	0.03	0.15
75905	0	0	0	2.85	0	67	0	0	1.73	0	14	76	34	2.47	7	0	0.2	1.47
75906	5	0.01	1.3	2.94	4	80	0	4	1.95	0	19	83	43	3.81	9	0	0.28	0.74
75907	212	0.21	0.8	2.59	11	69	0	0	2.35	0	26	63	108	5.03	9	0	0.11	0.91
75908	0	0	0	5.77	3	267	0	0	2.32	0	19	100	38	5.13	14	0	1.02	1.07
75909	0	0	0	6.96	4	81	0	3	6.19	0	45	59	60	11.7	16	4	0.5	3.25
75910	0	0	0	0.6	0	68	0	0	0.18	0	1	8	19	0.76	2	0	0.1	0.06
75911	0	0	0.3	4.94	8	615	0	0	2.62	0	22	153	29	4.3	12	0	1.35	2.59
75912	0	0	0.5	4.6	5	449	1	0	1.12	0	17	65	39	4.92	21	0	0.91	0.91
75913	0	0	0.9	7.25	0	851	1	0	1.52	0	11	36	29	4.12	19	2	1.36	0.45
75914	9	0.01	0.5	6.51	674	109	3	0	1.55	0	3	9	7	5.4	28	0	0.46	0.1
75915	0	0	0.9	5.64	23	253	2	0	0.75	0	0	16	39	4.62	32	0	1.38	0.31
75916	8	0.01	0	7.3	8	101	0	0	11.4	0	33	50	94	4.37	15	0	0.42	1.37
75917	0	0	0.7	2.62	4	17	0	0	3.5	0	8	48	21	2.17	10	0	0.05	0.57
75918	0	0	0	7.42	20	12	0	4	5.74	0.5	55	214	109	10.8	17	3	0.03	3.04
75919	27	0.03	0.3	6.89	3	24	0	7	4.69	0.7	35	183	307	16.6	22	2	0.04	2.7
75920	0	0	0	2.87	16	16	0	5	6.02	0	17	58	83	2.86	6	0	0.05	0.93
75921	17	0.02	0.5	8.82	15	85	1	2	6.47	0	49	137	50	8	15	3	0.11	1.47
75922	0	0	0.6	6.11	0	211	1	0	2.14	0	16	15	21	6.37	24	1	0.7	0.94
75923	6	0.01	0.3	6.79	6	135	0	4	7.34	1.3	35	11	77	11.8	19	7	0.28	1.26
75924	0	0	0	3.71	7	87	2	0	3.6	0	9	15	7	3.19	12	0	0.35	0.69
75926	889	0.89	0	0.44	0	14	0	5	6.8	0	3	31	7	2.64	0	0	0.08	0.22
75927	2050	2.05	0.9	2.13	19	8	0	0	11.1	0	24	18	40	11.3	9	3	0.04	1.04
75928	0	0	0	2.44	7	153	0	0	10.9	0	16	154	48	3.38	7	0	0.4	1.76
75929	40	0.04	0.7	6.38	10	41	0	0	4.54	0.5	42	70	138	10.5	16	3	0.1	3.18
75930	5	0.01	0	7.07	0	111	1	5	3.99	0	41	5	109	12.2	20	6	0.41	2.29
75931	0	0	0	7.2	3	40	0	3	8.82	0	46	106	164	9.09	16	7	0.14	2.14
75932	0	0	0	3.34	0	63	0	0	3.17	0	28	51	19	5.61	10	0	0.29	1.68
75933	28	0.03	0.4	8.71	25	97	0	2	7.74	0	54	159	193	10.8	17	6	0.36	4.29
75934	15	0.02	0.4	5.8	5	99	0	2	4.38	0.6	30	26	34	9.3	16	2	0.24	1.72
75935	0	0	0.4	8.06	0	303	0	0	2.87	0	31	223	71	4.98	17	0	0.99	3.59
75936	0	0	0.8	6.22	4	313	2	0	1.25	0	3	5	6	5.3	30	1	1.39	0.25

Sample_ID	Au_ppb	Au_ppm	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	Hg_ppm	K_pct	Mg_pct
75937	0	0	0.8	6.5	0	124	1	0	2.75	0	3	5	9	5.39	30	0	0.6	0.24
75938	0	0	0	3.09	28	164	1	0	2.37	0	15	46	4	3.77	12	3	0.95	0.93
75939	0	0	0	4.36	44	182	0	2	3.32	0	24	58	3	5.53	20	0	0.91	1.64
75940	0	0	0	4.57	7	346	2	6	1.15	0	2	6	4	3.1	26	0	2	0.31
75941	0	0	0.7	5.99	0	150	1	0	0.54	0	10	7	39	4.33	22	0	0.39	0.27
75942	0	0	0.7	6.63	0	115	2	0	1.29	0	4	7	3	5.14	28	0	0.38	0.17
75943	0	0	0.7	6.68	13	158	1	0	2.64	0	2	27	6	5.02	30	0	0.55	0.13
75944	0	0	0.8	6.53	0	121	1	0	2.12	0	2	3	4	4.88	26	0	0.56	0.15
75945	0	0	0	7.8	4	73	0	0	7.92	0	47	106	108	6.76	11	2	0.16	3.34
75946	0	0	0	1.54	0	8	0	0	1.8	0	6	32	2	1.32	1	0	0.02	0.66
75947	0	0	0	7.21	3	14	0	0	4.59	0	34	158	13	7	9	1	0.04	3.6
75948	0	0	0	0.39	0	07	0	0	0.24	0	4	39	5	1.18	0	0	0.01	0.26
75949	0	0	0.3	9.28	17	92	0	4	6.63	0	56	95	102	9.39	13	4	0.23	4.85
75951	8410	8.41	1.5	2.63	29	9	0	8	1.14	0	45	30	84	32.1	16	4	0	2.49
75952	271	0.27	0.4	0.49	8	28	0	0	0.74	0	6	10	21	1.47	2	0	0.07	0.36
75953	23	0.02	1.5	0.43	3	175	0	0	0.72	0	2	6	8	0.78	1	0	0.2	0.16
75954	45	0.05	0.3	6.63	13	319	0	0	2.98	0	11	49	15	2.21	17	2	1.09	0.26
75955	0	0	0.4	7.76	10	324	0	0	4.28	0	24	111	50	5.02	17	5	0.76	1.96
75956	28	0.03	0	0.91	4	174	0	0	0.44	0	3	21	14	0.71	2	0	0.51	0.14
75957	543	0.54	0	0.7	5	77	0	0	0.15	0	3	10	65	0.7	2	0	0.32	0.19
75958	288	0.29	0.4	6.67	0	464	0	0	1.77	0.3	11	36	57	2.24	15	0	1.68	0.79
75959	104	0.1	0	0.17	0	14	0	0	0.78	0	0	8	7	0.39	0	0	0.05	0.02
75960	45	0.05	0.5	7.04	20	739	0	0	1.21	0	17	56	27	2.4	20	0	2.07	0.94
75961	6	0.01	0.6	6.63	8	332	0	0	4.12	0.4	57	217	48	9.29	13	2	0.53	3.53
75962	250	0.25	0.6	8.02	0	> 1000	1	0	1.17	0	8	8	44	2.37	21	0	1.66	0.37
75963	1500	1.5	0.6	1.45	0	261	0	0	0.23	0	1	9	11	0.71	4	0	0.64	0.11
75964	18	0.02	0.5	4.77	4	308	0	0	2.65	0	18	117	61	3.55	10	0	0.45	1.54
75965	7	0.01	1	7.3	0	394	0	0	2.25	0	14	72	29	2.82	14	0	0.77	1.41
75966	5	0.01	0	0.66	0	59	0	0	0.3	0	2	42	6	0.73	2	0	0.11	0.14
75967	10	0.01	0.6	8.72	0	500	0	0	2.88	0	25	159	70	5.94	23	0	1.48	2.25
75968	5000	5	10.6	0.77	7	78	0	0	0.21	0.5	9	77	4160	2	2	2	0.24	0.23
75969	951	0.95	0.3	1.32	5	50	0	0	0.94	0	6	58	7	1.43	3	0	0.21	0.41
75970	8	0.01	0.7	5.21	0	104	0	0	4.95	0.6	74	324	97	9.86	12	5	0.58	5.01
75971	8	0.01	0.7	6.66	0	131	0	0	5.84	0.3	71	310	91	10.4	12	8	1.11	7.35
75972	6	0.01	0.4	9.06	4	80	0	4	3.99	0.3	58	186	52	9.21	14	3	0.21	5.38
75973	6	0.01	0	5.9	0	69	0	2	5.27	0	59	8	26	12.6	20	5	0.45	3.38
75974	0	0	0	7.45	5	38	0	3	6.87	0	42	149	21	10.1	15	5	0.19	3.81
75976	0	0	0.4	9.21	0	264	0	0	5.07	0	36	80	62	7.5	18	0	0.71	2.99

Sample_ID	Au_ppb	Au_ppm	Ag_ppm	Al_pct	As_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_pct	Ga_ppm	Hg_ppm	K_pct	Mg_pct
146242	0	0																
146243	0	0																
146244	9	0.01	2.1	5.08	7	65	2	0	0.06	0	3	7	33	1.45	15	0	1.31	0.19
146245	37	0.04																
146246	0	0																
146247	0	0																
146248	0	0																
146249	0	0																
146250	0	0																
146251	0	0																
146252	0	0																
146253	0	0																
146254	0	0																
146255	0	0																
146256	9	0.01	0.4	5.63	0	491	0	0	8.74	0	9	41	23	2.59	13	0	1.53	2.05
146257	0	0																
146258	0	0																
146259	9	0.01	0.3	6.69	9	149	0	3	1.47	0.5	36	12	42	11.5	20	2	0.33	2.03
146260	0	0																
146261	935	0.94																
146262	74	0.07	0.5	6.48	14	336	1	0	0.89	0	10	6	12	4.85	21	2	1.17	0.28
146263	342	0.34	0.6	2.97	15	117	0	0	1.67	0	8	4	12	3.01	6	0	0.44	0.14
146264	496	0.5	0.8	6.3	51	250	0	0	2.71	0.5	9	4	26	5.03	16	1	1.26	0.4

Sample_ID	Li_ppm	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_pct	Pb_ppm	Sb_ppm	S_pct	Sc_ppm	Sr_ppm	Te_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm
75901	14	1650	0	1.18	20	0.173	0	0	0.11	25	525	0	0.27	0	0	45	0	39
75902	12	1220	0	1.7	58	0.029	0	0	0.1	29	151	0	0.23	0	0	140	0	15
75903	17	1020	0	2.14	41	0.092	0	0	0.06	20	253	0	0.09	0	0	37	0	21
75904	1	411	4	0.12	3	0.01	0	0	0.13	0	14	0	0.06	0	0	8	0	2
75905	5	558	0	1.64	37	0.012	0	0	0.13	12	38	4	0.15	0	0	69	0	5
75906	7	604	3	1.6	35	0.005	33	0	0.98	9	47	4	0.15	0	0	53	0	7
75907	5	953	3	2.42	24	0.02	18	0	1.86	10	111	8	0.33	0	0	64	8	6
75908	20	867	0	0.29	64	0.035	7	0	0.32	13	258	0	0.24	0	0	82	0	19
75909	9	1650	0	1.74	50	0.096	0	0	0.06	37	144	2	0.36	0	0	122	0	37
75910	2	119	1	0.28	3	0.006	4	0	0	0	47	0	0.02	0	0	6	0	1
75911	25	816	0	1.57	36	0.092	0	0	0.06	16	249	7	0.25	0	0	101	0	11
75912	22	1090	1	1.95	44	0.062	5	0	0.1	8	190	0	0.36	0	0	77	0	26
75913	18	594	0	3.21	20	0.054	19	0	0.04	7	940	0	0.25	0	0	77	0	9
75914	8	1470	3	3.69	2	0.023	0	0	0.04	8	88	0	0.23	0	0	3	6	96
75915	12	901	2	1.46	1	0.023	0	0	0.01	7	30	0	0.24	0	0	3	0	70
75916	8	922	0	0.87	119	0.013	0	0	0.02	17	195	5	0.2	0	0	112	0	6
75917	4	412	0	0.21	25	0.008	5	5	0.04	6	401	0	0.08	0	0	93	0	3
75918	12	2090	0	2.01	177	0.02	0	0	0.44	26	88	8	0.41	0	0	205	0	10
75919	11	2570	1	0.25	120	0.018	8	0	0.53	25	153	7	0.39	0	0	191	6	10
75920	6	896	1	0.95	58	0.008	0	0	0.03	8	44	5	0.11	0	0	63	0	3
75921	6	3780	0	2.04	160	0.024	0	0	0.11	26	860	0	0.33	0	0	160	0	8
75922	9	1140	0	2.14	13	0.051	0	0	0.02	15	298	0	0.19	0	0	45	0	99
75923	2	2900	2	1.98	19	0.093	0	0	0.12	30	168	5	0.44	0	0	104	0	34
75924	7	798	0	0.05	21	0.028	4	0	0.02	10	321	0	0.24	0	0	46	0	43
75926	2	1020	9	0.02	17	0.04	4	0	1.47	0	245	0	0.02	0	0	16	0	6
75927	10	2240	12	0	145	0.052	10	0	3.93	8	336	4	0.07	0	0	51	7	8
75928	11	1030	0	0.41	18	0.095	0	0	0.03	11	90	4	0.21	0	0	82	0	9
75929	21	1350	0	1.76	66	0.127	84	0	0.43	19	124	0	0.45	0	0	104	0	27
75930	21	1310	0	1.39	13	0.169	0	0	0.06	26	243	6	0.17	0	0	29	0	43
75931	13	1590	0	1.44	65	0.035	0	0	0.18	33	148	0	0.13	0	0	104	0	19
75932	12	733	0	0.28	79	0.037	0	0	0.07	7	165	4	0.22	0	0	60	0	9
75933	16	1350	0	0.97	117	0.034	0	0	0.22	38	284	6	0.56	0	0	267	0	17
75934	13	2470	0	2.61	23	0.112	24	0	0.75	24	128	5	0.31	17	0	52	0	32
75935	19	745	0	3	157	0.092	0	0	0	16	345	0	0.26	0	0	82	0	9
75936	11	1180	3	2.26	3	0.024	0	0	0.02	8	93	0	0.24	0	0	2	0	96

Sample_ID	Li_ppm	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_pct	Pb_ppm	Sb_ppm	S_pct	Sc_ppm	Sr_ppm	Te_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm
75937	9	903	2	2.69	2	0.024	0	0	0	8	232	0	0.23	0	0	0	0	95
75938	15	775	0	0.48	30	0.075	0	0	0	7	73	8	0.23	0	0	27	0	10
75939	22	796	0	1.64	48	0.098	0	0	0	7	161	9	0.62	0	0	92	16	9
75940	9	650	1	0.28	2	0.01	0	0	0	6	28	0	0.15	0	0	15	6	51
75941	10	514	2	3.5	3	0.029	0	0	0.02	10	66	3	0.24	0	0	41	0	88
75942	13	1180	2	3.61	0	0.028	0	0	0	9	92	0	0.24	0	0	2	0	98
75943	8	1100	0	3.25	1	0.026	0	0	0	9	112	0	0.24	23	0	2	0	95
75944	12	1280	2	3.4	1	0.023	0	0	0	8	128	0	0.22	0	0	0	0	89
75945	9	1270	0	1.7	156	0.018	0	0	0.04	23	155	0	0.29	0	0	138	0	8
75946	5	272	0	0.66	29	0.008	0	0	0	0	16	0	0.06	0	0	30	0	2
75947	19	1080	0	2.09	152	0.016	0	0	0	18	85	0	0.22	0	0	133	0	6
75948	2	210	5	0.08	9	0.002	0	0	0	0	4	0	0.01	0	0	8	0	0
75949	22	1210	0	1.54	141	0.028	0	0	0.02	26	202	2	0.37	0	0	159	0	10
75951	5	2110	4	0	482	0.005	31	0	3.57	0	25	7	0.06	0	0	88	29	5
75952	2	181	4	0.03	9	0.004	0	0	0.39	0	41	0	0.03	0	0	25	0	0
75953	1	344	2	0.03	3	0.005	5	0	0.1	0	40	0	0.01	0	0	11	0	1
75954	3	383	3	3.74	36	0.053	0	0	0.63	6	306	2	0.24	0	10	46	0	5
75955	14	910	0	3.27	56	0.134	4	0	0.02	13	488	0	0.2	0	0	64	0	13
75956	1	145	1	0.03	11	0.011	7	0	0.05	0	25	0	0.06	0	0	15	0	1
75957	2	120	2	0.03	6	0.005	7	0	0.15	0	27	0	0.03	0	0	10	0	0
75958	4	414	0	3.05	28	0.053	4	0	0.07	5	280	5	0.17	10	0	40	0	5
75959	0	139	0	0.08	1	0.001	5	0	0	0	134	0	0	0	0	2	0	0
75960	8	439	0	2.1	53	0.037	0	0	0.12	6	169	0	0.22	0	0	62	10	4
75961	15	1090	0	2.41	253	0.146	0	0	0	21	425	3	0.6	0	0	185	0	16
75962	7	467	0	3.16	10	0.073	12	0	0.04	0	242	4	0.22	0	0	47	0	6
75963	2	142	0	0.36	3	0.008	60	0	0	0	54	0	0.04	0	0	12	0	1
75964	12	808	8	1.56	54	0.05	0	0	0.3	8	408	2	0.21	0	0	56	0	6
75965	22	542	0	3.62	60	0.058	6	0	0.03	8	1080	0	0.2	0	0	53	0	8
75966	2	134	3	0.23	10	0.007	0	0	0.01	0	40	0	0.04	0	0	12	0	1
75967	27	817	0	2.86	110	0.078	0	0	0.35	15	403	0	0.38	0	0	117	0	10
75968	5	151	28	0.09	22	0.007	17	0	0.89	0	16	3	0.05	0	0	16	0	0
75969	6	286	24	0.55	17	0.022	0	0	0.23	0	54	0	0.05	0	0	13	6	2
75970	10	977	53	2.12	286	0.094	0	0	1.25	13	252	6	0.78	0	0	163	0	13
75971	20	1180	206	1.09	356	0.052	0	0	0.73	16	195	2	0.56	0	0	135	6	13
75972	26	1060	0	3.19	226	0.047	0	0	0.05	15	415	0	0.52	0	0	126	0	11
75973	9	1420	0	2.56	6	0.023	5	0	0.27	31	196	6	0.53	0	0	205	0	13
75974	6	1220	0	2.63	70	0.03	0	0	0	28	476	0	0.23	6	0	136	0	13
75976	12	971	0	2.81	68	0.126	0	0	0.01	24	561	4	0.43	0	0	169	0	15

Sample_ID	Li_ppm	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm	P_pct	Pb_ppm	Sb_ppm	S_pct	Sc_ppm	Sr_ppm	Te_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm
146242																		
146243																		
146244	10	138	1	2.45	5	0.009	10	0	0.38	0	51	3	0.12	0	0	14	0	16
146245																		
146246																		
146247																		
146248																		
146249																		
146250																		
146251																		
146252																		
146253																		
146254																		
146255																		
146256	28	485	0	1.5	30	0.068	9	0	0.01	7	257	4	0.27	0	0	61	0	13
146257																		
146258																		
146259	14	1710	0	2.78	3	0.088	4	0	0.43	20	172	5	0.32	0	0	44	0	15
146260																		
146261																		
146262	9	1020	2	2.93	2	0.125	0	0	0.53	10	156	10	0.53	0	0	17	14	24
146263	2	607	4	1.68	3	0.059	9	0	1.15	4	124	7	0.27	0	0	16	22	12
146264	7	999	2	2.85	2	0.146	12	0	1.62	10	201	7	0.57	0	0	33	38	24

Sample_ID	Zn_ppm	Zr_ppm
75901	162	45
75902	71	22
75903	90	19
75904	10	6
75905	39	15
75906	28	18
75907	26	43
75908	76	84
75909	123	48
75910	16	10
75911	79	63
75912	129	212
75913	81	144
75914	128	297
75915	133	357
75916	38	15
75917	39	12
75918	181	15
75919	459	23
75920	59	7
75921	67	29
75922	125	244
75923	468	44
75924	44	56
75926	13	9
75927	63	43
75928	54	43
75929	150	72
75930	162	52
75931	102	11
75932	69	17
75933	93	26
75934	108	42
75935	89	70
75936	124	408

Sample_ID	Zn_ppm	Zr_ppm
75937	85	351
75938	45	15
75939	85	77
75940	112	156
75941	79	357
75942	116	399
75943	97	348
75944	137	358
75945	56	14
75946	20	0
75947	89	8
75948	12	0
75949	83	39
75951	165	59
75952	27	0
75953	10	0
75954	22	100
75955	84	91
75956	10	14
75957	15	10
75958	46	96
75959	7	0
75960	63	103
75961	110	81
75962	85	101
75963	30	17
75964	81	58
75965	60	98
75966	9	7
75967	91	108
75968	28	14
75969	16	13
75970	89	84
75971	76	59
75972	97	39
75973	69	16
75974	90	26
75976	95	55

Sample_ID	Zn_ppm	Zr_ppm
75977	56	10
75979	35	19
75980	45	12
75981	44	9
75982	75	18
75983	61	12
75984	68	18
75985	45	104
75986	172	446
75987	174	354
75988	70	392
75989	67	31
75990	14	43
75991	69	526
75992	150	106
75993	42	453
75994	90	55
75995	81	32
75996	112	37
75997	163	59
75998	112	25
75999	173	64
76026	134	41
76027	213	320
76028	142	57
76029	141	372
146176	91	41
146177		
146178	131	55
146179	143	71
146180		
146181		
146182		
146183		

Sample_ID	Zn_ppm	Zr_ppm
146184		
146185		
146186		
146187		
146188	58	121
146189	11	18
146190		
146191		
146192		
146193		
146194		
146195		
146196		
146197	40	26
146198	18	16
146199	40	46
146201		
146202	158	63
146203		
146204		
146205		
146206		
146207		
146208		
146209	53	127
146210	20	28
146211		
146212		
146213		
146214	42	132
146215		

Sample_ID	Zn_ppm	Zr_ppm
146216		
146217	68	77
146218	71	87
146219		
146220		
146226		
146227	129	32
146228		
146229		
146230		
146231		
146232		
146233		
146234		
146235		
146236		
146237		
146238		
146239		
146240		
146241		

Sample_ID	Zn_ppm	Zr_ppm
146242		
146243		
146244	37	661
146245		
146246		
146247		
146248		
146249		
146250		
146251		
146252		
146253		
146254		
146255		
146256	52	97
146257		
146258		
146259	154	31
146260		
146261		
146262	64	153
146263	54	80
146264	115	176

Sample_ID	Zn_ppm	Zr_ppm
146265	94	162
146266		

Appendix 7
Expense Summary

Date (Earliest)	Supplier	Project	Category	hours	Invoice No.	Invoice Total	Sub-type 1	Sub-type 2
29-Feb-20	Dahrouge Geological Consulting				15788	\$ 256.20		
	Neil McCallum	Vixen North, South & West		2			\$ 252.00	
		Vixen North	Reporting				\$	163.80
		Vixen South	Reporting				\$	50.40
		Vixen West	Reporting				\$	37.80
31-Jul-20	Dahrouge Geological Consulting				15788	\$ 2,764.39		
	Darren Smith	Vixen North, South & West		1			\$ 126.00	
		Vixen North	Reporting				\$	81.90
		Vixen South	Reporting				\$	25.20
		Vixen West	Reporting				\$	18.90
	Patrik Schmidt	Vixen North, South & West		19.75			\$ 1,659.00	
		Vixen North	Reporting				\$	1,078.35
		Vixen South	Reporting				\$	331.80
		Vixen West	Reporting				\$	248.85
	Jordan Pearson	Vixen North, South & West		12			\$ 743.40	
		Vixen North	Reporting				\$	483.21
		Vixen South	Reporting				\$	148.68
		Vixen West	Reporting				\$	111.51
	Noah Van Camp	Vixen North, South & West		1.75			\$ 108.41	
		Vixen North	Reporting				\$	70.47
		Vixen South	Reporting				\$	21.68
		Vixen West	Reporting				\$	16.26
	Jenel Kerr	Vixen North, South & West		1.25			\$ 52.50	
		Vixen North	Reporting				\$	34.13
		Vixen South	Reporting				\$	10.50
		Vixen West	Reporting				\$	7.88
01-Aug-20	Dahrouge Geological Consulting				15788	\$ 37,355.07		
	Darren Smith	Vixen North, South & West		6.75			\$ 850.50	
		Vixen North	Reporting				\$	552.83
		Vixen South	Reporting				\$	170.10
		Vixen West	Reporting				\$	127.58
	Patrik Schmidt	Vixen North, South & West		22			\$ 1,848.00	
		Vixen North	Reporting				\$	1,201.20
		Vixen South	Reporting				\$	369.60
		Vixen West	Reporting				\$	277.20
		Vixen North, South & West		40			\$ 3,360.00	
		Vixen North	Geological Mapping				\$	2,184.00
		Vixen South	Geological Mapping				\$	672.00
		Vixen West	Geological Mapping				\$	504.00
		Vixen North, South & West		40			\$ 3,360.00	
		Vixen North	Contractor Mob/Demob				\$	2,184.00
		Vixen South	Contractor Mob/Demob				\$	672.00
		Vixen West	Contractor Mob/Demob				\$	504.00

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Expense Summary

Deon Dicks	Vixen North, South & West		52	\$	3,221.40	
	Vixen North	Geological Mapping			\$	2,093.91
	Vixen South	Geological Mapping			\$	644.28
	Vixen West	Geological Mapping			\$	483.21
	Vixen North, South & West		40	\$	2,478.00	
	Vixen North	Contractor Mob/Demob			\$	1,610.70
	Vixen South	Contractor Mob/Demob			\$	495.60
	Vixen West	Contractor Mob/Demob			\$	371.70
Jordan Pearson	Vixen North, South & West		72	\$	4,460.40	
	Vixen North	Geological Mapping			\$	2,899.26
	Vixen South	Geological Mapping			\$	892.08
	Vixen West	Geological Mapping			\$	669.06
	Vixen North, South & West		20	\$	1,239.00	
	Vixen North	Contractor Mob/Demob			\$	805.35
	Vixen South	Contractor Mob/Demob			\$	247.80
	Vixen West	Contractor Mob/Demob			\$	185.85
Noah Van Camp	Vixen North, South & West		4.5	\$	278.78	
	Vixen North	Reporting			\$	181.20
	Vixen South	Reporting			\$	55.76
	Vixen West	Reporting			\$	41.82
	Vixen North, South & West		72	\$	4,460.40	
	Vixen North	Geological Mapping			\$	2,899.26
	Vixen South	Geological Mapping			\$	892.08
	Vixen West	Geological Mapping			\$	669.06
	Vixen North, South & West		20	\$	1,239.00	
	Vixen North	Contractor Mob/Demob			\$	805.35
Vixen South	Contractor Mob/Demob			\$	247.80	
	Vixen West	Contractor Mob/Demob			\$	185.85
Allyson Ullrich	Vixen North, South & West		2	\$	94.50	
	Vixen North	Reporting			\$	61.43
	Vixen South	Reporting			\$	18.90
	Vixen West	Reporting			\$	14.18
Jenel Kerr	Vixen North, South & West		4.75	\$	199.50	
	Vixen North	Reporting			\$	129.68
	Vixen South	Reporting			\$	39.90
	Vixen West	Reporting			\$	29.93

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Expense Summary

Accomodations (on project)	Vixen North, South & West			\$ 3,105.07	
	Vixen North	Accomodations			\$ 2,018.30
	Vixen South	Accomodations			\$ 621.01
	Vixen West	Accomodations			\$ 465.76
travel	Vixen North, South & West			\$ 4,331.85	
	Vixen North	Contractor Mob/Demob			\$ 2,815.70
	Vixen South	Contractor Mob/Demob			\$ 866.37
	Vixen West	Contractor Mob/Demob			\$ 649.78
Accoms (Travel)	Vixen North, South & West			\$ 473.20	
	Vixen North	Contractor Mob/Demob			\$ 307.58
	Vixen South	Contractor Mob/Demob			\$ 94.64
	Vixen West	Contractor Mob/Demob			\$ 70.98
Food	Vixen North, South & West			\$ 2,520.00	
	Vixen North	Food			\$ 1,638.00
	Vixen South	Food			\$ 504.00
	Vixen West	Food			\$ 378.00
Supplies	Vixen North, South & West			\$ 712.26	
	Vixen North	Supplies			\$ 462.97
	Vixen South	Supplies			\$ 142.45
	Vixen West	Supplies			\$ 106.84
Forest Heilicopters Inc	Vixen North, South & West			\$ 15,505.04	
	Vixen North	Geological Mapping			\$ 10,078.28
	Vixen South	Geological Mapping			\$ 3,101.01
	Vixen West	Geological Mapping			\$ 2,325.76
31-Oct-20 Dahrouge Geological Consulting	Vixen North, South & West		15788	\$ 41,879.32	
Darren Smith	Vixen North, South & West		1	\$ 126.00	
	Vixen North	Reporting			\$ 81.90
	Vixen South	Reporting			\$ 25.20
	Vixen West	Reporting			\$ 18.90
Neil McCallum	Vixen North, South & West		2.5	\$ 315.00	
	Vixen North	Reporting			\$ 204.75
	Vixen South	Reporting			\$ 63.00
	Vixen West	Reporting			\$ 47.25
Patrik Schmidt	Vixen North, South & West		99	\$ 8,316.00	
	Vixen North	Geological Mapping			\$ 4,864.86
	Vixen North	Geophysics			\$ 540.54
	Vixen South	Geological Mapping			\$ 1,663.20
	Vixen West	Geological Mapping			\$ 1,247.40
Patrik Schmidt	Vixen North, South & West		30	\$ 2,520.00	
	Vixen North	Contractor Mob/Demob			\$ 1,638.00
	Vixen South	Contractor Mob/Demob			\$ 504.00
	Vixen West	Contractor Mob/Demob			\$ 378.00

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Expense Summary

Paul Mickelsen	Vixen North, South & West		32	\$	1,982.40	
	Vixen North	Contractor Mob/Demob			\$	1,288.56
	Vixen South	Contractor Mob/Demob			\$	396.48
	Vixen West	Contractor Mob/Demob			\$	297.36
	Vixen North, South & West		50	\$	3,097.50	
	Vixen North	Geological Mapping			\$	2,013.38
	Vixen South	Geological Mapping			\$	619.50
	Vixen West	Geological Mapping			\$	464.63
Noah Van Camp	Vixen North, South & West		32	\$	1,982.40	
	Vixen North	Contractor Mob/Demob			\$	1,288.56
	Vixen South	Contractor Mob/Demob			\$	396.48
	Vixen West	Contractor Mob/Demob			\$	297.36
	Vixen North, South & West		50	\$	3,097.50	
	Vixen North	Geological Mapping			\$	1,610.70
	Vixen North	Geophysics			\$	402.68
	Vixen South	Geological Mapping			\$	619.50
	Vixen West	Geological Mapping			\$	464.63
Rowan Wollenberg	Vixen North, South & West		30	\$	1,858.50	
	Vixen North	Contractor Mob/Demob			\$	1,208.03
	Vixen South	Contractor Mob/Demob			\$	371.70
	Vixen West	Contractor Mob/Demob			\$	278.78
	Vixen North, South & West		50	\$	3,097.50	
	Vixen North	Geological Mapping			\$	2,013.38
	Vixen South	Geological Mapping			\$	619.50
	Vixen West	Geological Mapping			\$	464.63
Jenel Kerr	Vixen North, South & West		7.25	\$	304.50	
	Vixen North	Reporting			\$	197.93
	Vixen South	Reporting			\$	60.90
	Vixen West	Reporting			\$	45.68
Accomodations (on project)	Vixen North, South & West			\$	3,066.59	
	Vixen North	Accomodations			\$	1,993.28
	Vixen South	Accomodations			\$	613.32
	Vixen West	Accomodations			\$	459.99
Travel	Vixen North, South & West			\$	5,066.06	
	Vixen North	Contractor Mob/Demob			\$	3,292.94
	Vixen South	Contractor Mob/Demob			\$	1,013.21
	Vixen West	Contractor Mob/Demob			\$	759.91
Accoms (Travel)	Vixen North, South & West			\$	848.38	
	Vixen North	Contractor Mob/Demob			\$	551.45
	Vixen South	Contractor Mob/Demob			\$	169.68
	Vixen West	Contractor Mob/Demob			\$	127.26
Food	Vixen North, South & West			\$	2,240.00	
	Vixen North	Food			\$	1,456.00
	Vixen South	Food			\$	448.00
	Vixen West	Food			\$	336.00
Shipping of Supplies	Vixen North, South & West			\$	75.51	

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Expense Summary

Shipping of Samples	Vixen North	Shipping of Supplies		\$	49.08
	Vixen South	Shipping of Supplies		\$	15.10
	Vixen West	Shipping of Supplies		\$	11.33
	Vixen North, South & West			\$	71.21
Equipment Rental (Beep Mat)	Vixen North	Shipping of Samples		\$	46.29
	Vixen South	Shipping of Samples		\$	14.24
	Vixen West	Shipping of Samples		\$	10.68
	Vixen North, South & West			\$	3,135.00
Supplies	Vixen North	Geophysics		\$	3,135.00
	Vixen North, South & West			\$	166.07
	Vixen North	Supplies		\$	107.95
	Vixen South	Supplies		\$	33.21
	Vixen West	Supplies		\$	24.91
Forest Helicopters Inc	Vixen North, South & West			\$	21,574.72
	Vixen North	Geological Mapping		\$	11,218.85
	Vixen North	Geophysics		\$	2,804.71
	Vixen South	Geological Mapping		\$	4,314.94
	Vixen West	Geological Mapping		\$	3,236.21
30-Nov-20 Dahrouge Geological Consulting			15788	\$	1,565.57
Matt Carter	Vixen North, South & West		1	\$	94.50
	Vixen North	Reporting		\$	61.43
	Vixen South	Reporting		\$	18.90
	Vixen West	Reporting		\$	14.18
Patrik Schmidt	Vixen North, South & West		12	\$	1,008.00
	Vixen North	Reporting		\$	655.20
	Vixen South	Reporting		\$	201.60
	Vixen West	Reporting		\$	151.20
Rowan Wollenberg	Vixen North, South & West		2	\$	123.90
	Vixen North	Reporting		\$	80.54
	Vixen South	Reporting		\$	24.78
	Vixen West	Reporting		\$	18.59

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Allyson Ullrich	Vixen North, South & West		4.75	\$	224.44	
	Vixen North	Reporting			\$	145.88
	Vixen South	Reporting			\$	44.89
	Vixen West	Reporting			\$	33.67
31-Dec-20 Dahrouge Geological Consulting			15788	\$	3,808.35	
Darren Smith	Vixen North, South & West		1.5	\$	189.00	
	Vixen North	Reporting			\$	122.85
	Vixen South	Reporting			\$	37.80
	Vixen West	Reporting			\$	28.35
Patrik Schmidt	Vixen North, South & West		42	\$	3,528.00	
	Vixen North	Reporting			\$	2,293.20
	Vixen South	Reporting			\$	705.60
	Vixen West	Reporting			\$	529.20
					Complete Total	\$ 124,786.89

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Expense Summary

CLAIM BLOCK SUMMARY

Vixen North		
Contractor Mob/Demob	\$	17,796.21
Geological Mapping	\$	41,875.87
Geophysics	\$	6,882.93
Reporting	\$	7,881.85
Assays	\$	-
Food	\$	3,094.00
Accommodations	\$	4,011.58
Shipping of Supplies	\$	49.08
Shipping of Samples	\$	46.29
Equipment Rental	\$	-
Supplies	\$	570.91
TOTAL VIXEN NORTH		\$ 82,208.73

Vixen South		
Contractor Mob/Demob	\$	5,475.76
Geological Mapping	\$	14,038.09
Geochemistry	\$	-
Reporting	\$	2,425.19
Assays	\$	-
Food	\$	952.00
Accommodations	\$	1,234.33
Shipping of Supplies	\$	15.10
Shipping of Samples	\$	14.24
Equipment Rental	\$	-
Supplies	\$	175.67
TOTAL VIXEN SOUTH		\$ 24,330.38

Vixen West		
Contractor Mob/Demob	\$	4,106.82
Geological Mapping	\$	10,528.57
Geochemistry	\$	-
Reporting	\$	1,818.89
Assays	\$	-
Food	\$	714.00
Accommodations	\$	925.75
Shipping of Supplies	\$	11.33
Shipping of Samples	\$	10.68
Equipment Rental	\$	-
Supplies	\$	131.75
TOTAL VIXEN SOUTH		\$ 18,247.78

TOTAL PROJECT	\$ 124,786.89
----------------------	----------------------



Report No.: A20-09337-Au
Report Date: 15-Aug-20
Date Submitted: 13-Aug-20
Your Reference:

ALX Resources Corp
103-10183 112 St,
Edmonton Alberta T5K 1M1 Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

20 Rock samples were submitted for analysis.

Table with 3 columns: Analytical package requested, Description, and Testing Date. Rows include 1A2B-50-Tbay, 1F2-Tbay, and Weight Report in Kg-Tbay.

REPORT A20-09337-Au

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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.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Received Weight
Unit Symbol	ppb	Kg
Lower Limit	5	
Method Code	FA-AA	none
75906	5	1.07
75907	212	1.58
75915	< 5	1.70
75918	< 5	1.46
75919	27	1.12
75920	< 5	1.78
75926	889	0.849
75927	2050	1.19
75938	< 5	1.15
75948	< 5	1.20
75951	8410	0.882
75954	45	1.08
75968	5000	1.18
75969	951	1.15
75973	6	1.10
75984	< 5	1.06
75985	12	0.828
75987	< 5	0.359
75990	47	1.18
75991	149	0.970

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 238 (Fire Assay) Meas	3070
OREAS 238 (Fire Assay) Cert	3030
Oreas E1336 (Fire Assay) Meas	506
Oreas E1336 (Fire Assay) Cert	510
75938 Orig	5
75938 Dup	< 5
75990 Orig	48
75990 Dup	46
Method Blank	< 5
Method Blank	< 5



Report No.: A20-09337-TD
Report Date: 20-Aug-20
Date Submitted: 13-Aug-20
Your Reference:

ALX Resources Corp
103-10183 112 St,
Edmonton Alberta T5K 1M1 Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

20 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1F2-Tbay | QOP Total (Total Digestion ICPOES) | 2020-08-19 22:48:49

REPORT A20-09337-TD

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:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-09337

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
75906	1.3	2.94	4	80	< 1	4	1.95	< 0.3	19	83	43	3.81	9	< 1	0.28	0.74	7	604	3	1.60	35	0.005	33
75907	0.8	2.59	11	69	< 1	< 2	2.35	< 0.3	26	63	108	5.03	9	< 1	0.11	0.91	5	953	3	2.42	24	0.020	18
75915	0.9	5.64	23	253	2	< 2	0.75	< 0.3	< 1	16	39	4.62	32	< 1	1.38	0.31	12	901	2	1.46	1	0.023	< 3
75918	< 0.3	7.42	20	12	< 1	4	5.74	0.5	55	214	109	10.8	17	3	0.03	3.04	12	2090	< 1	2.01	177	0.020	< 3
75919	0.3	6.89	3	24	< 1	7	4.69	0.7	35	183	307	16.6	22	2	0.04	2.70	11	2570	1	0.25	120	0.018	8
75920	< 0.3	2.87	16	16	< 1	5	6.02	< 0.3	17	58	83	2.86	6	< 1	0.05	0.93	6	896	1	0.95	58	0.008	< 3
75926	< 0.3	0.44	< 3	14	< 1	5	6.80	< 0.3	3	31	7	2.64	< 1	< 1	0.08	0.22	2	1020	9	0.02	17	0.040	4
75927	0.9	2.13	19	8	< 1	< 2	11.1	< 0.3	24	18	40	11.3	9	3	0.04	1.04	10	2240	12	< 0.01	145	0.052	10
75938	< 0.3	3.09	28	164	1	< 2	2.37	< 0.3	15	46	4	3.77	12	3	0.95	0.93	15	775	< 1	0.48	30	0.075	< 3
75948	< 0.3	0.39	< 3	< 7	< 1	< 2	0.24	< 0.3	4	39	5	1.18	< 1	< 1	0.01	0.26	2	210	5	0.08	9	0.002	< 3
75951	1.5	2.63	29	9	< 1	8	1.14	< 0.3	45	30	84	32.1	16	4	< 0.01	2.49	5	2110	4	< 0.01	482	0.005	31
75954	0.3	6.63	13	319	< 1	< 2	2.98	< 0.3	11	49	15	2.21	17	2	1.09	0.26	3	383	3	3.74	36	0.053	< 3
75968	10.6	0.77	7	78	< 1	< 2	0.21	0.5	9	77	4160	2.00	2	2	0.24	0.23	5	151	28	0.09	22	0.007	17
75969	0.3	1.32	5	50	< 1	< 2	0.94	< 0.3	6	58	7	1.43	3	< 1	0.21	0.41	6	286	24	0.55	17	0.022	< 3
75973	< 0.3	5.90	< 3	69	< 1	2	5.27	< 0.3	59	8	26	12.6	20	5	0.45	3.38	9	1420	< 1	2.56	6	0.023	5
75984	< 0.3	7.89	6	26	< 1	3	8.23	< 0.3	48	96	322	7.30	16	< 1	0.12	3.35	12	1450	< 1	1.58	167	0.021	< 3
75985	0.7	3.95	10	149	< 1	3	0.88	< 0.3	3	17	8	4.51	17	< 1	0.70	0.35	10	623	4	2.34	1	0.051	11
75987	1.2	6.16	11	322	2	< 2	0.44	< 0.3	19	22	44	6.68	25	< 1	1.03	0.47	12	986	2	2.25	20	0.038	9
75990	< 0.3	0.69	< 3	32	< 1	< 2	0.07	< 0.3	< 1	33	5	1.23	3	< 1	0.09	0.07	5	204	3	0.34	< 1	0.006	6
75991	1.5	5.39	< 3	262	2	< 2	0.50	< 0.3	8	24	16	5.33	25	< 1	1.09	0.43	21	614	3	2.40	4	0.024	< 3

Analyte Symbol	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
Lower Limit	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
75906	< 5	0.98	9	47	4	0.15	< 5	< 10	53	< 5	7	28	18
75907	< 5	1.86	10	111	8	0.33	< 5	< 10	64	8	6	26	43
75915	< 5	0.01	7	30	< 2	0.24	< 5	< 10	3	< 5	70	133	357
75918	< 5	0.44	26	88	8	0.41	< 5	< 10	205	< 5	10	181	15
75919	< 5	0.53	25	153	7	0.39	< 5	< 10	191	6	10	459	23
75920	< 5	0.03	8	44	5	0.11	< 5	< 10	63	< 5	3	59	7
75926	< 5	1.47	< 4	245	< 2	0.02	< 5	< 10	16	< 5	6	13	9
75927	< 5	3.93	8	336	4	0.07	< 5	< 10	51	7	8	63	43
75938	< 5	< 0.01	7	73	8	0.23	< 5	< 10	27	< 5	10	45	15
75948	< 5	< 0.01	< 4	4	< 2	0.01	< 5	< 10	8	< 5	< 1	12	< 5
75951	< 5	3.57	< 4	25	7	0.06	< 5	< 10	88	29	5	165	59
75954	< 5	0.63	6	306	2	0.24	< 5	10	46	< 5	5	22	100
75968	< 5	0.89	< 4	16	3	0.05	< 5	< 10	16	< 5	< 1	28	14
75969	< 5	0.23	< 4	54	< 2	0.05	< 5	< 10	13	6	2	16	13
75973	< 5	0.27	31	196	6	0.53	< 5	< 10	205	< 5	13	69	16
75984	< 5	0.12	27	174	5	0.30	< 5	< 10	126	< 5	12	68	18
75985	< 5	0.40	10	80	6	0.31	< 5	< 10	12	< 5	60	45	104
75987	< 5	1.02	11	168	2	0.39	< 5	< 10	27	< 5	61	174	354
75990	< 5	0.04	< 4	18	< 2	0.04	< 5	< 10	4	< 5	10	14	43
75991	< 5	0.63	7	125	5	0.24	< 5	< 10	24	< 5	107	69	526

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas		8.13	< 3	501	2		1.06		19	52	34	4.95	24	< 1	1.46	1.04	35	916		1.45	37	0.059	21
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
Oreas 72a (4 Acid Digest) Meas			7						151	160	322	9.48									6590		
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63									6930.000		
Oreas 72a (4 Acid Digest) Meas			5						163	141	356	9.57									7310		
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63									6930.000		
OREAS 98 (4 Acid) Meas	42.1					80			123		> 10000												298
OREAS 98 (4 Acid) Cert	45.1					97.2			121		148000.0												345
OREAS 98 (4 Acid) Meas	42.7					35			130		> 10000												314
OREAS 98 (4 Acid) Cert	45.1					97.2			121		148000.0												345
DNC-1a Meas				83			7.46		57	174	99	7.10	13				5			1.39	255		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
OREAS 904 (4 ACID) Meas	0.9	6.41	93	175	8	< 2	0.05		97	46	6140	6.90	19		2.61	0.59	16	456	2	0.03	44	0.100	10
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	40.1	0.0980	10.6
SBC-1 Meas			22	667	3	3		< 0.3	22	67	33		28				163		2		88		30
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
OREAS 96 (4 Acid) Meas	11.1					< 2			51		> 10000												94
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.6					< 2			52		> 10000												97
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 923 (4 Acid) Meas	1.8	7.02	6	354	2	16	0.48	< 0.3	24	65	4330	6.41	21		1.92	1.74	30	969	< 1	0.31	37	0.062	77
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	35.8	0.0630	83.0
OREAS 621 (4 Acid) Meas	68.3	6.17	62		1	7	2.03	276	30	26	3700	3.74	26		1.73	0.52	14	479	13	1.25	33	0.035	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	69.7	6.61	63		1	3	2.07	284	31	33	3760	3.86	26		1.34	0.53	14	507	14	1.27	30	0.036	> 5000
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	26.2	0.0359	13600
75991 Orig	1.5	5.36	< 3	263	2	< 2	0.50	< 0.3	8	24	16	5.32	25	< 1	1.08	0.43	21	617	3	2.41	4	0.023	< 3
75991 Dup	1.5	5.41	3	262	2	< 2	0.50	< 0.3	8	25	16	5.33	25	< 1	1.09	0.43	20	610	3	2.39	4	0.024	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	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	
Lower Limit	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	
SDC-1 Meas	< 5		15	179		0.22	< 5	< 10	52	< 5		102	47	
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00	
Oreas 72a (4 Acid Digest) Meas		1.62												
Oreas 72a (4 Acid Digest) Cert		1.74												
Oreas 72a (4 Acid Digest) Meas		1.84												
Oreas 72a (4 Acid Digest) Cert		1.74												
OREAS 98 (4 Acid) Meas	11	14.2										1260		
OREAS 98 (4 Acid) Cert	20.1	15.5										1360		
OREAS 98 (4 Acid) Meas	8	15.7										1290		
OREAS 98 (4 Acid) Cert	20.1	15.5										1360		
DNC-1a Meas	< 5		29	132		0.26			128			15	62	31
DNC-1a Cert	0.96		31	144		0.29			148			18.0	70	38.0
OREAS 904 (4 ACID) Meas	< 5	0.06	11	29			< 5	< 10	78	< 5	34	27	169	
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171	
SBC-1 Meas	< 5		19	179		0.44	< 5	< 10	195	< 5	30	193	99	
SBC-1 Cert	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	< 5	4.12											429	
OREAS 96 (4 Acid) Cert	5.09	4.19											457	
OREAS 96 (4 Acid) Meas	< 5	4.20											441	
OREAS 96 (4 Acid) Cert	5.09	4.19											457	
OREAS 923 (4 Acid) Meas	< 5	0.67	12	43		0.40	< 5	< 10	86	8	26	338	117	
OREAS 923 (4 Acid) Cert	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	17	4.37	6	68		0.18	< 5	< 10	31	5	11	> 10000	151	
OREAS 621 (4 Acid) Cert	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	21	4.54	7	74		0.18	< 5	< 10	31	8	13	> 10000	160	
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168	
75991 Orig	< 5	0.63	7	124	4	0.24	< 5	< 10	24	< 5	103	70	527	
75991 Dup	< 5	0.63	7	125	7	0.24	< 5	< 10	24	< 5	110	69	524	
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5	



Report No.: A20-09348-Au
Report Date: 04-Sep-20
Date Submitted: 13-Aug-20
Your Reference:

ALX Resources Corp
103-10183 112 St,
Edmonton Alberta T5K 1M1 Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

Table with 3 columns: The following analytical package(s) were requested, Testing Date, and details of packages and weights.

REPORT A20-09348-Au

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Received Weight
Unit Symbol	ppb	Kg
Lower Limit	5	
Method Code	FA-AA	none
75901	< 5	1.19
75902	< 5	1.48
75903	< 5	0.811
75904	< 5	1.14
75905	< 5	0.955
75908	< 5	1.27
75909	< 5	0.950
75910	< 5	1.18
75911	< 5	0.371
75912	< 5	0.772
75913	< 5	1.57
75914	9	1.17
75916	8	1.19
75917	< 5	0.529
75921	17	0.907
75922	< 5	1.46
75923	6	1.13
75924	< 5	0.654
75925	< 5	0.269
75928	< 5	1.60
75929	40	0.937
75930	5	0.934
75931	< 5	1.40
75932	< 5	0.649
75933	28	0.899
75934	15	0.565
75935	< 5	1.45
75936	< 5	1.11
75937	< 5	1.40
75939	< 5	1.51
75940	< 5	0.509
75941	< 5	1.10
75942	< 5	1.47
75943	< 5	1.06
75944	< 5	1.02
75945	< 5	1.01
75946	< 5	1.02
75947	< 5	1.42
75949	< 5	1.04
75950	< 5	0.274
75952	271	0.547
75953	23	0.858
75955	< 5	0.909
75956	28	0.651
75957	543	0.967
75958	288	1.03
75959	104	0.664
75960	45	0.956
75961	6	0.601

Analyte Symbol	Au	Received Weight
Unit Symbol	ppb	Kg
Lower Limit	5	
Method Code	FA-AA	none
75962	250	0.933
75963	1500	1.14
75964	18	0.432
75965	7	0.851
75966	5	0.567
75967	10	0.641
75970	8	1.14
75971	8	1.14
75972	6	0.704
75974	< 5	0.963
75975	5	0.266
75976	< 5	1.02
75977	7	0.840
75978	< 5	0.277
75979	7	0.914
75980	< 5	0.691
75981	8	0.721
75982	< 5	0.707
75983	11	1.03
75986	< 5	1.01
75988	165	0.704
75989	< 5	0.738
75992	< 5	0.635
75993	< 5	1.32
75994	< 5	0.898
75995	< 5	1.14
75996	< 5	0.628
75997	< 5	0.839
75998	< 5	0.662
75999	< 5	1.20
76000	< 5	0.263
76026	< 5	0.957
76027	< 5	0.612
76028	< 5	0.772
76029	< 5	0.881

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 238 (Fire Assay) Meas	3120
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3090
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3140
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3100
OREAS 238 (Fire Assay) Cert	3030
OREAS 238 (Fire Assay) Meas	3160
OREAS 238 (Fire Assay) Cert	3030
Oreas E1336 (Fire Assay) Meas	511
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	525
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	525
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	509
Oreas E1336 (Fire Assay) Cert	510
Oreas E1336 (Fire Assay) Meas	520
Oreas E1336 (Fire Assay) Cert	510
75911 Orig	< 5
75911 Dup	< 5
75925 Orig	< 5
75925 Dup	< 5
75931 Orig	< 5
75931 Dup	5
75956 Orig	25
75956 Dup	31
75962 Orig	250
75962 Split PREP DUP	310
75963 Orig	1580
75963 Dup	1420
75965 Orig	5
75965 Dup	8
75971 Orig	9

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
75971 Dup	7
75998 Orig	< 5
75998 Dup	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	< 5
Method Blank	6
Method Blank	< 5
Method Blank	< 5



Report No.: A20-09348-TD
Report Date: 09-Sep-20
Date Submitted: 13-Aug-20
Your Reference:

ALX Resources Corp
103-10183 112 St,
Edmonton Alberta T5K 1M1 Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1F2-Tbay | QOP Total (Total Digestion ICPOES) | 2020-08-28 18:04:48

REPORT A20-09348-TD

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:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-09348

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
75901	0.4	7.46	7	155	1	4	5.71	< 0.3	45	9	102	12.5	22	6	0.69	2.27	14	1650	< 1	1.18	20	0.173	< 3
75902	< 0.3	6.90	< 3	119	< 1	< 2	9.26	< 0.3	34	62	88	6.71	15	1	0.54	1.81	12	1220	< 1	1.70	58	0.029	< 3
75903	< 0.3	7.49	< 3	171	< 1	< 2	6.60	< 0.3	39	32	64	8.96	16	3	0.67	2.90	17	1020	< 1	2.14	41	0.092	< 3
75904	< 0.3	0.27	< 3	15	< 1	< 2	0.41	< 0.3	2	9	4	0.79	< 1	< 1	0.03	0.15	1	411	4	0.12	3	0.010	< 3
75905	< 0.3	2.85	< 3	67	< 1	< 2	1.73	< 0.3	14	76	34	2.47	7	< 1	0.20	1.47	5	558	< 1	1.64	37	0.012	< 3
75908	< 0.3	5.77	3	267	< 1	< 2	2.32	< 0.3	19	100	38	5.13	14	< 1	1.02	1.07	20	867	< 1	0.29	64	0.035	7
75909	< 0.3	6.96	4	81	< 1	3	6.19	< 0.3	45	59	60	11.7	16	4	0.50	3.25	9	1650	< 1	1.74	50	0.096	< 3
75910	< 0.3	0.60	< 3	68	< 1	< 2	0.18	< 0.3	1	8	19	0.76	2	< 1	0.10	0.06	2	119	1	0.28	3	0.006	4
75911	0.3	4.94	8	615	< 1	< 2	2.62	< 0.3	22	153	29	4.30	12	< 1	1.35	2.59	25	816	< 1	1.57	36	0.092	< 3
75912	0.5	4.60	5	449	1	< 2	1.12	< 0.3	17	65	39	4.92	21	< 1	0.91	0.91	22	1090	1	1.95	44	0.062	5
75913	0.9	7.25	< 3	851	1	< 2	1.52	< 0.3	11	36	29	4.12	19	2	1.36	0.45	18	594	< 1	3.21	20	0.054	19
75914	0.5	6.51	674	109	3	< 2	1.55	< 0.3	3	9	7	5.40	28	< 1	0.46	0.10	8	1470	3	3.69	2	0.023	< 3
75916	< 0.3	7.30	8	101	< 1	< 2	11.4	< 0.3	33	50	94	4.37	15	< 1	0.42	1.37	8	922	< 1	0.87	119	0.013	< 3
75917	0.7	2.62	4	17	< 1	< 2	3.50	< 0.3	8	48	21	2.17	10	< 1	0.05	0.57	4	412	< 1	0.21	25	0.008	5
75921	0.5	8.82	15	85	1	2	6.47	< 0.3	49	137	50	8.00	15	3	0.11	1.47	6	3780	< 1	2.04	160	0.024	< 3
75922	0.6	6.11	< 3	211	1	< 2	2.14	< 0.3	16	15	21	6.37	24	1	0.70	0.94	9	1140	< 1	2.14	13	0.051	< 3
75923	0.3	6.79	6	135	< 1	4	7.34	1.3	35	11	77	11.8	19	7	0.28	1.26	2	2900	2	1.98	19	0.093	< 3
75924	< 0.3	3.71	7	87	2	< 2	3.60	< 0.3	9	15	7	3.19	12	< 1	0.35	0.69	7	798	< 1	0.05	21	0.028	4
75925	< 0.3	0.09	< 3	< 7	< 1	< 2	0.04	< 0.3	< 1	7	6	0.36	< 1	< 1	0.02	0.02	2	66	< 1	0.03	2	< 0.001	< 3
75928	< 0.3	2.44	7	153	< 1	< 2	10.9	< 0.3	16	154	48	3.38	7	< 1	0.40	1.76	11	1030	< 1	0.41	18	0.095	< 3
75929	0.7	6.38	10	41	< 1	< 2	4.54	0.5	42	70	138	10.5	16	3	0.10	3.18	21	1350	< 1	1.76	66	0.127	84
75930	< 0.3	7.07	< 3	111	1	5	3.99	< 0.3	41	5	109	12.2	20	6	0.41	2.29	21	1310	< 1	1.39	13	0.169	< 3
75931	< 0.3	7.20	3	40	< 1	3	8.82	< 0.3	46	106	164	9.09	16	7	0.14	2.14	13	1590	< 1	1.44	65	0.035	< 3
75932	< 0.3	3.34	< 3	63	< 1	< 2	3.17	< 0.3	28	51	19	5.61	10	< 1	0.29	1.68	12	733	< 1	0.28	79	0.037	< 3
75933	0.4	8.71	25	97	< 1	2	7.74	< 0.3	54	159	193	10.8	17	6	0.36	4.29	16	1350	< 1	0.97	117	0.034	< 3
75934	0.4	5.80	5	99	< 1	2	4.38	0.6	30	26	34	9.30	16	2	0.24	1.72	13	2470	< 1	2.61	23	0.112	24
75935	0.4	8.06	< 3	303	< 1	< 2	2.87	< 0.3	31	223	71	4.98	17	< 1	0.99	3.59	19	745	< 1	3.00	157	0.092	< 3
75936	0.8	6.22	4	313	2	< 2	1.25	< 0.3	3	5	6	5.30	30	1	1.39	0.25	11	1180	3	2.26	3	0.024	< 3
75937	0.8	6.50	< 3	124	1	< 2	2.75	< 0.3	3	5	9	5.39	30	< 1	0.60	0.24	9	903	2	2.69	2	0.024	< 3
75939	< 0.3	4.36	44	182	< 1	2	3.32	< 0.3	24	58	3	5.53	20	< 1	0.91	1.64	22	796	< 1	1.64	48	0.098	< 3
75940	< 0.3	4.57	7	346	2	6	1.15	< 0.3	2	6	4	3.10	26	< 1	2.00	0.31	9	650	1	0.28	2	0.010	< 3
75941	0.7	5.99	< 3	150	1	< 2	0.54	< 0.3	10	7	39	4.33	22	< 1	0.39	0.27	10	514	2	3.50	3	0.029	< 3
75942	0.7	6.63	< 3	115	2	< 2	1.29	< 0.3	4	7	3	5.14	28	< 1	0.38	0.17	13	1180	2	3.61	< 1	0.028	< 3
75943	0.7	6.68	13	158	1	< 2	2.64	< 0.3	2	27	6	5.02	30	< 1	0.55	0.13	8	1100	< 1	3.25	1	0.026	< 3
75944	0.8	6.53	< 3	121	1	< 2	2.12	< 0.3	2	3	4	4.88	26	< 1	0.56	0.15	12	1280	2	3.40	1	0.023	< 3
75945	< 0.3	7.80	4	73	< 1	< 2	7.92	< 0.3	47	106	108	6.76	11	2	0.16	3.34	9	1270	< 1	1.70	156	0.018	< 3
75946	< 0.3	1.54	< 3	8	< 1	< 2	1.80	< 0.3	6	32	2	1.32	1	< 1	0.02	0.66	5	272	< 1	0.66	29	0.008	< 3
75947	< 0.3	7.21	3	14	< 1	< 2	4.59	< 0.3	34	158	13	7.00	9	1	0.04	3.60	19	1080	< 1	2.09	152	0.016	< 3
75949	0.3	9.28	17	92	< 1	4	6.63	< 0.3	56	95	102	9.39	13	4	0.23	4.85	22	1210	< 1	1.54	141	0.028	< 3
75950	< 0.3	0.17	< 3	17	< 1	< 2	0.05	< 0.3	< 1	10	28	0.32	< 1	< 1	0.06	0.03	5	62	< 1	0.06	2	0.001	< 3
75952	0.4	0.49	8	28	< 1	< 2	0.74	< 0.3	6	10	21	1.47	2	< 1	0.07	0.36	2	181	4	0.03	9	0.004	< 3
75953	1.5	0.43	3	175	< 1	< 2	0.72	< 0.3	2	6	8	0.78	1	< 1	0.20	0.16	1	344	2	0.03	3	0.005	5
75955	0.4	7.76	10	324	< 1	< 2	4.28	< 0.3	24	111	50	5.02	17	5	0.76	1.96	14	910	< 1	3.27	56	0.134	4
75956	< 0.3	0.91	4	174	< 1	< 2	0.44	< 0.3	3	21	14	0.71	2	< 1	0.51	0.14	1	145	1	0.03	11	0.011	7
75957	< 0.3	0.70	5	77	< 1	< 2	0.15	< 0.3	3	10	65	0.70	2	< 1	0.32	0.19	2	120	2	0.03	6	0.005	7
75958	0.4	6.67	< 3	464	< 1	< 2	1.77	0.3	11	36	57	2.24	15	< 1	1.68	0.79	4	414	< 1	3.05	28	0.053	4
75959	< 0.3	0.17	< 3	14	< 1	< 2	0.78	< 0.3	< 1	8	7	0.39	< 1	< 1	0.05	0.02	< 1	139	< 1	0.08	1	0.001	5
75960	0.5	7.04	20	739	< 1	< 2	1.21	< 0.3	17	56	27	2.40	20	< 1	2.07	0.94	8	439	< 1	2.10	53	0.037	< 3
75961	0.6	6.63	8	332	< 1	< 2	4.12	0.4	57	217	48	9.29	13	2	0.53	3.53	15	1090	< 1	2.41	253	0.146	< 3
75962	0.6	8.02	< 3	> 1000	1	< 2	1.17	< 0.3	8	8	44	2.37	21	< 1	1.66	0.37	7	467	< 1	3.16	10	0.073	12
75963	0.6	1.45	< 3	261	< 1	< 2	0.23	< 0.3	1	9	11	0.71	4	< 1	0.64	0.11	2	142	< 1	0.36	3	0.008	60

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
75964	0.5	4.77	4	308	< 1	< 2	2.65	< 0.3	18	117	61	3.55	10	< 1	0.45	1.54	12	808	8	1.56	54	0.050	< 3
75965	1.0	7.30	< 3	394	< 1	< 2	2.25	< 0.3	14	72	29	2.82	14	< 1	0.77	1.41	22	542	< 1	3.62	60	0.058	6
75966	< 0.3	0.66	< 3	59	< 1	< 2	0.30	< 0.3	2	42	6	0.73	2	< 1	0.11	0.14	2	134	3	0.23	10	0.007	< 3
75967	0.6	8.72	< 3	500	< 1	< 2	2.88	< 0.3	25	159	70	5.94	23	< 1	1.48	2.25	27	817	< 1	2.86	110	0.078	< 3
75970	0.7	5.21	< 3	104	< 1	< 2	4.95	0.6	74	324	97	9.86	12	5	0.58	5.01	10	977	53	2.12	286	0.094	< 3
75971	0.7	6.66	< 3	131	< 1	< 2	5.84	0.3	71	310	91	10.4	12	8	1.11	7.35	20	1180	206	1.09	356	0.052	< 3
75972	0.4	9.06	4	80	< 1	4	3.99	0.3	58	186	52	9.21	14	3	0.21	5.38	26	1060	< 1	3.19	226	0.047	< 3
75974	< 0.3	7.45	5	38	< 1	3	6.87	< 0.3	42	149	21	10.1	15	5	0.19	3.81	6	1220	< 1	2.63	70	0.030	< 3
75975	< 0.3	0.03	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	35	< 1	0.19	< 1	< 1	< 0.01	< 0.01	4	38	3	0.01	< 1	< 0.001	< 3
75976	0.4	9.21	< 3	264	< 1	< 2	5.07	< 0.3	36	80	62	7.50	18	< 1	0.71	2.99	12	971	< 1	2.81	68	0.126	< 3
75977	< 0.3	9.25	9	27	< 1	3	7.12	0.5	59	178	101	7.04	12	< 1	0.08	2.94	18	1110	< 1	1.20	262	0.015	< 3
75978	< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	32	< 1	0.20	< 1	< 1	< 0.01	< 0.01	3	40	3	< 0.01	< 1	< 0.001	< 3
75979	< 0.3	9.08	< 3	24	< 1	2	10.8	< 0.3	39	150	129	5.65	13	< 1	0.10	4.04	5	915	< 1	0.42	214	0.015	< 3
75980	< 0.3	11.0	14	79	< 1	3	7.76	< 0.3	46	168	71	5.94	12	< 1	0.30	6.10	17	918	< 1	1.03	182	0.010	< 3
75981	< 0.3	3.57	16	15	< 1	< 2	8.10	0.7	51	174	66	5.50	11	1	0.02	2.46	10	1070	< 1	0.72	228	0.012	< 3
75982	< 0.3	6.22	11	27	< 1	< 2	8.68	< 0.3	55	103	107	7.75	16	< 1	0.07	3.45	8	1390	< 1	1.00	241	0.021	4
75983	< 0.3	8.55	< 3	42	< 1	3	8.04	0.6	55	208	89	7.58	14	6	0.12	5.01	24	1220	< 1	0.43	251	0.014	< 3
75986	1.0	5.23	< 3	292	2	< 2	0.99	< 0.3	< 1	10	13	3.69	27	< 1	1.51	0.11	5	941	3	1.88	2	0.003	4
75988	1.1	5.48	9	126	1	< 2	0.75	< 0.3	2	13	15	3.88	18	1	0.84	0.44	8	529	3	2.81	3	0.045	< 3
75989	< 0.3	4.57	11	74	2	< 2	10.2	< 0.3	29	68	30	6.72	20	1	0.50	2.81	34	1640	< 1	0.95	88	0.020	< 3
75992	0.4	6.93	10	47	< 1	5	3.23	< 0.3	37	6	114	12.5	24	< 1	0.22	3.55	18	2180	< 1	1.73	15	0.098	< 3
75993	1.0	6.00	6	772	3	< 2	0.78	< 0.3	3	22	14	2.28	25	< 1	1.42	0.32	7	335	6	2.82	3	0.017	< 3
75994	< 0.3	7.08	9	106	< 1	3	7.89	< 0.3	43	25	115	10.7	27	< 1	0.26	2.15	3	1860	< 1	1.82	35	0.068	< 3
75995	< 0.3	6.16	8	50	< 1	< 2	8.55	< 0.3	50	169	178	10.2	17	< 1	0.20	3.66	14	1420	< 1	1.10	107	0.027	< 3
75996	< 0.3	6.91	15	109	< 1	8	6.35	< 0.3	59	232	155	11.4	18	< 1	0.34	3.82	16	1790	< 1	1.77	120	0.033	< 3
75997	< 0.3	6.53	5	117	< 1	2	3.93	< 0.3	21	4	41	11.2	26	< 1	0.36	1.23	6	1880	< 1	2.03	4	0.151	< 3
75998	< 0.3	6.15	3	122	< 1	4	4.63	0.4	33	8	84	9.04	18	< 1	0.39	1.69	4	1680	< 1	2.91	22	0.071	< 3
75999	0.4	6.61	< 3	45	< 1	8	4.02	< 0.3	25	7	32	12.7	25	< 1	0.42	1.50	10	2300	< 1	2.16	5	0.151	< 3
76000	< 0.3	0.09	< 3	< 7	< 1	< 2	0.05	< 0.3	< 1	27	2	0.41	< 1	< 1	< 0.01	0.02	1	61	3	0.02	1	< 0.001	< 3
76026	< 0.3	6.39	7	45	< 1	4	6.77	< 0.3	42	12	90	11.3	19	< 1	0.30	2.11	9	2110	< 1	1.69	29	0.058	< 3
76027	0.7	5.20	< 3	865	2	< 2	1.09	< 0.3	2	8	7	3.25	23	< 1	2.45	0.22	9	768	2	1.74	2	0.021	< 3
76028	< 0.3	6.55	< 3	82	< 1	< 2	4.58	< 0.3	43	15	88	12.2	20	1	0.22	2.13	10	1830	< 1	2.30	31	0.063	< 3
76029	0.8	6.29	< 3	98	2	3	1.73	< 0.3	9	9	15	6.72	28	< 1	0.25	0.74	4	1090	1	3.15	1	0.053	< 3

Analyte Symbol	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
Lower Limit	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
75901	< 5	0.11	25	525	< 2	0.27	< 5	< 10	45	< 5	39	162	45
75902	< 5	0.10	29	151	< 2	0.23	< 5	< 10	140	< 5	15	71	22
75903	< 5	0.06	20	253	< 2	0.09	< 5	< 10	37	< 5	21	90	19
75904	< 5	0.13	< 4	14	< 2	0.06	< 5	< 10	8	< 5	2	10	6
75905	< 5	0.13	12	38	4	0.15	< 5	< 10	69	< 5	5	39	15
75908	< 5	0.32	13	258	< 2	0.24	< 5	< 10	82	< 5	19	76	84
75909	< 5	0.06	37	144	2	0.36	< 5	< 10	122	< 5	37	123	48
75910	< 5	< 0.01	< 4	47	< 2	0.02	< 5	< 10	6	< 5	1	16	10
75911	< 5	0.06	16	249	7	0.25	< 5	< 10	101	< 5	11	79	63
75912	< 5	0.10	8	190	< 2	0.36	< 5	< 10	77	< 5	26	129	212
75913	< 5	0.04	7	940	< 2	0.25	< 5	< 10	77	< 5	9	81	144
75914	< 5	0.04	8	88	< 2	0.23	< 5	< 10	3	6	96	128	297
75916	< 5	0.02	17	195	5	0.20	< 5	< 10	112	< 5	6	38	15
75917	5	0.04	6	401	< 2	0.08	< 5	< 10	93	< 5	3	39	12
75921	< 5	0.11	26	860	< 2	0.33	< 5	< 10	160	< 5	8	67	29
75922	< 5	0.02	15	298	< 2	0.19	< 5	< 10	45	< 5	99	125	244
75923	< 5	0.12	30	168	5	0.44	< 5	< 10	104	< 5	34	468	44
75924	< 5	0.02	10	321	< 2	0.24	< 5	< 10	46	< 5	43	44	56
75925	< 5	< 0.01	< 4	5	< 2	< 0.01	< 5	< 10	2	< 5	< 1	8	< 5
75928	< 5	0.03	11	90	4	0.21	< 5	< 10	82	< 5	9	54	43
75929	< 5	0.43	19	124	< 2	0.45	< 5	< 10	104	< 5	27	150	72
75930	< 5	0.06	26	243	6	0.17	< 5	< 10	29	< 5	43	162	52
75931	< 5	0.18	33	148	< 2	0.13	< 5	< 10	104	< 5	19	102	11
75932	< 5	0.07	7	165	4	0.22	< 5	< 10	60	< 5	9	69	17
75933	< 5	0.22	38	284	6	0.56	< 5	< 10	267	< 5	17	93	26
75934	< 5	0.75	24	128	5	0.31	17	< 10	52	< 5	32	108	42
75935	< 5	< 0.01	16	345	< 2	0.26	< 5	< 10	82	< 5	9	89	70
75936	< 5	0.02	8	93	< 2	0.24	< 5	< 10	2	< 5	96	124	408
75937	< 5	< 0.01	8	232	< 2	0.23	< 5	< 10	< 2	< 5	95	85	351
75939	< 5	< 0.01	7	161	9	0.62	< 5	< 10	92	16	9	85	77
75940	< 5	< 0.01	6	28	< 2	0.15	< 5	< 10	15	6	51	112	156
75941	< 5	0.02	10	66	3	0.24	< 5	< 10	41	< 5	88	79	357
75942	< 5	< 0.01	9	92	< 2	0.24	< 5	< 10	2	< 5	98	116	399
75943	< 5	< 0.01	9	112	< 2	0.24	23	< 10	2	< 5	95	97	348
75944	< 5	< 0.01	8	128	< 2	0.22	< 5	< 10	< 2	< 5	89	137	358
75945	< 5	0.04	23	155	< 2	0.29	< 5	< 10	138	< 5	8	56	14
75946	< 5	< 0.01	< 4	16	< 2	0.06	< 5	< 10	30	< 5	2	20	< 5
75947	< 5	< 0.01	18	85	< 2	0.22	< 5	< 10	133	< 5	6	89	8
75949	< 5	0.02	26	202	2	0.37	< 5	< 10	159	< 5	10	83	39
75950	< 5	< 0.01	< 4	7	< 2	< 0.01	< 5	< 10	3	< 5	< 1	14	< 5
75952	< 5	0.39	< 4	41	< 2	0.03	< 5	< 10	25	< 5	< 1	27	< 5
75953	< 5	0.10	< 4	40	< 2	0.01	< 5	< 10	11	< 5	1	10	< 5
75955	< 5	0.02	13	488	< 2	0.20	< 5	< 10	64	< 5	13	84	91
75956	< 5	0.05	< 4	25	< 2	0.06	< 5	< 10	15	< 5	1	10	14
75957	< 5	0.15	< 4	27	< 2	0.03	< 5	< 10	10	< 5	< 1	15	10
75958	< 5	0.07	5	280	5	0.17	10	< 10	40	< 5	5	46	96
75959	< 5	< 0.01	< 4	134	< 2	< 0.01	< 5	< 10	2	< 5	< 1	7	< 5
75960	< 5	0.12	6	169	< 2	0.22	< 5	< 10	62	10	4	63	103
75961	< 5	< 0.01	21	425	3	0.60	< 5	< 10	185	< 5	16	110	81
75962	< 5	0.04	< 4	242	4	0.22	< 5	< 10	47	< 5	6	85	101
75963	< 5	< 0.01	< 4	54	< 2	0.04	< 5	< 10	12	< 5	1	30	17

Analyte Symbol	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
Lower Limit	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
75964	< 5	0.30	8	408	2	0.21	< 5	< 10	56	< 5	6	81	58
75965	< 5	0.03	8	1080	< 2	0.20	< 5	< 10	53	< 5	8	60	98
75966	< 5	0.01	< 4	40	< 2	0.04	< 5	< 10	12	< 5	1	9	7
75967	< 5	0.35	15	403	< 2	0.38	< 5	< 10	117	< 5	10	91	108
75970	< 5	1.25	13	252	6	0.78	< 5	< 10	163	< 5	13	89	84
75971	< 5	0.73	16	195	2	0.56	< 5	< 10	135	6	13	76	59
75972	< 5	0.05	15	415	< 2	0.52	< 5	< 10	126	< 5	11	97	39
75974	< 5	< 0.01	28	476	< 2	0.23	6	< 10	136	< 5	13	90	26
75975	< 5	< 0.01	< 4	1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	1	< 5
75976	< 5	0.01	24	561	4	0.43	< 5	< 10	169	< 5	15	95	55
75977	< 5	0.02	21	163	3	0.25	5	< 10	135	< 5	6	56	10
75978	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
75979	< 5	0.02	18	105	< 2	0.22	< 5	< 10	116	< 5	7	35	19
75980	< 5	< 0.01	21	144	3	0.18	< 5	< 10	123	< 5	6	45	12
75981	< 5	0.02	7	139	< 2	0.27	< 5	< 10	138	< 5	3	44	9
75982	< 5	< 0.01	14	234	< 2	0.37	8	< 10	164	< 5	6	75	18
75983	< 5	< 0.01	24	175	3	0.28	< 5	< 10	158	< 5	8	61	12
75986	< 5	0.03	4	76	< 2	0.23	< 5	< 10	3	< 5	97	172	446
75988	< 5	0.91	11	66	4	0.30	< 5	< 10	3	< 5	66	70	392
75989	< 5	0.11	21	202	12	0.29	< 5	< 10	54	9	26	67	31
75992	< 5	0.24	33	52	11	0.95	< 5	< 10	259	< 5	42	150	106
75993	< 5	0.08	< 4	95	3	0.23	< 5	< 10	10	< 5	142	42	453
75994	< 5	0.71	29	207	2	0.52	< 5	< 10	179	< 5	29	90	55
75995	< 5	0.18	25	230	< 2	0.56	< 5	< 10	259	< 5	11	81	32
75996	< 5	0.36	30	124	4	0.71	< 5	< 10	318	< 5	14	112	37
75997	< 5	0.03	29	183	14	0.12	< 5	< 10	6	< 5	62	163	59
75998	< 5	0.14	33	88	3	0.10	< 5	< 10	75	< 5	38	112	25
75999	< 5	0.10	33	135	3	0.23	< 5	< 10	18	< 5	53	173	64
76000	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	2	< 5	< 1	2	< 5
76026	< 5	0.05	30	140	< 2	0.25	< 5	< 10	120	< 5	33	134	41
76027	< 5	0.05	6	66	< 2	0.16	< 5	< 10	7	< 5	95	213	320
76028	< 5	0.12	31	110	< 2	0.40	< 5	< 10	158	< 5	32	142	57
76029	< 5	0.03	12	70	3	0.33	< 5	< 10	28	< 5	112	141	372

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas		8.45	< 3	532	3		1.11		19	43	31	5.16	24	< 1	1.59	1.07	40	925		1.50	37	0.059	20
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		8.03	< 3	513	2		1.07		18	44	30	4.92	20	< 1	1.44	1.02	38	912		1.42	34	0.056	19
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		8.61	< 3	582	3		1.09		18	54	31	4.92	23	< 1	1.55	1.04	39	903		1.52	36	0.057	20
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		8.78	7	554	3		1.11		20	54	29	4.91	22	< 1	2.17	1.05	39	954		1.46	38	0.061	22
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		7.07	< 3	503	2		0.92		19	57	29	4.62	22	< 1	1.46	0.97	37	950		1.38	37	0.059	23
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		8.40	4	630	2		1.02		19	49	29	4.91	20	1	1.55	1.01	33	871		1.55	34	0.056	19
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
Oreas 72a (4 Acid Digest) Meas			< 3						150	148	330	9.83										6230	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			6						148	189	322	9.83										6390	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			3						146	153	310	9.74										6260	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			8						156	167	324	9.87										6560	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			9						152	217	319	9.77										6630	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			5						150	160	325	9.80										6410	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
OREAS 98 (4 Acid) Meas	44.7					6			124		> 10000												307
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.8					22			120		> 10000												297
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	44.0					< 2			123		> 10000												305
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.1					18			125		> 10000												317
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	41.8					103			123		> 10000												282
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.9					95			124		> 10000												289

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Acid) Meas																							
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800 0.0												345
DNC-1a Meas				82			7.98		56	175	107	7.66	12				5			1.43	252		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				80			7.85		55	193	103	7.41	12				5			1.39	250		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				92			7.94		56	221	101	7.40	12				5			1.47	257		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				87			8.12		58	169	106	7.44	11				5			1.42	265		5
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				84			7.87		56	211	99	7.10	11				5			1.35	256		5
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				97			7.59		59	164	105	7.47	12				4			1.50	252		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
OREAS 904 (4 ACID) Meas	0.6	6.37	87	168	8	< 2	0.05		94	54	6330	7.04	17		2.45	0.58	17	451	2	0.04	48	0.099	13
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.4	6.28	72	162	8	< 2	0.05		94	45	6260	6.92	16		2.37	0.58	17	433	3	0.03	46	0.089	9
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.5	6.70	86	162	8	5	0.05		95	53	6190	6.93	18		2.16	0.58	18	449	4	0.04	42	0.096	13
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.6	6.72	88	182	8	< 2	0.05		99	56	6330	6.93	15		2.31	0.59	18	453	4	0.03	46	0.097	17
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.5	6.62	93	174	8	4	0.05		98	54	6200	6.81	16		2.44	0.59	18	461	3	0.04	49	0.096	17
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.7	6.46	98	192	7	3	0.04		92	57	5980	6.61	15		1.65	0.57	15	473	2	0.04	43	0.098	9
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	40.1	0.0980	10.6
SBC-1 Meas			30	489	3	< 2		0.4	23	72	33						166		3		83		25
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0						163		2		83		35.0
SBC-1 Meas			20	512	3	< 2		0.4	23	63	32						167		2		88		24
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0						163		2		83		35.0
SBC-1 Meas			19	642	3	2		0.5	24	81	31						166		2		85		29
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0						163		2		83		35.0
SBC-1 Meas			29	789	2	< 2		0.4	26	88	34						164		2		85		26
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0						163		2		83		35.0
OREAS 96 (4 Acid) Meas	11.8					8			52		> 10000												90
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.0					23			50		> 10000												89
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Meas	11.7					< 2			51		> 10000												93
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.0					4			53		> 10000												96
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.3					11			54		> 10000												92
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.8					10			55		> 10000												93
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 923 (4 Acid) Meas	1.6	7.23	9	351	2	14	0.48	0.4	23	67	4500	6.69	19		1.61	1.73	33	974	1	0.30	37	0.065	81
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	2.2	7.31	8	352	2	26	0.49	0.5	24	70	4540	6.81	18		1.87	1.78	34	996	< 1	0.31	37	0.064	82
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.7	7.63	7	380	2	13	0.48	< 0.3	23	71	4430	6.69	21		1.74	1.77	35	1010	< 1	0.32	36	0.063	90
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.7	7.57	6	348	2	19	0.49	0.4	25	74	4340	6.55	20		1.66	1.76	34	1010	< 1	0.30	38	0.065	80
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.7	7.70	10	441	2	22	0.47	0.4	27	74	4420	6.57	18		1.95	1.75	30	971	< 1	0.33	37	0.064	85
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	35.8	0.0630	83.0
OREAS 621 (4 Acid) Meas	69.6	6.62	68		1	< 2	2.14	295	31	27	3870	3.92	24		0.95	0.53	16	523	14	1.30	29	0.038	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	69.2	6.61	61		2	< 2	2.06	281	30	32	3760	3.82	24		0.52	0.52	16	501	13	1.35	27	0.035	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	70.1	6.54	56		2	4	2.09	285	31	34	3680	3.78	25		1.17	0.52	16	511	13	1.34	31	0.035	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	70.3	6.98	65		2	5	2.16	296	32	43	3770	3.79	25		1.69	0.54	16	529	14	1.28	32	0.037	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	69.0	6.53	65		1	5	2.02	291	31	46	3620	3.83	24		0.68	0.52	14	533	12	1.38	33	0.037	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	70.4	6.76	75		1	8	2.11	291	32	32	3600	3.86	26		0.91	0.52	13	517	13	1.39	33	0.036	> 5000

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
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	26.2	0.0359	13600
75901 Orig	0.4	7.45	6	155	1	5	5.62	< 0.3	45	11	101	12.5	22	5	0.69	2.29	14	1660	< 1	1.18	20	0.171	< 3
75901 Dup	0.4	7.47	7	154	1	3	5.80	< 0.3	45	7	102	12.5	22	7	0.70	2.25	14	1650	< 1	1.18	20	0.175	< 3
75916 Orig	< 0.3	7.34	7	102	< 1	< 2	11.4	< 0.3	34	50	92	4.39	15	< 1	0.43	1.38	8	923	< 1	0.88	120	0.013	6
75916 Dup	< 0.3	7.26	9	100	< 1	< 2	11.4	< 0.3	33	51	96	4.35	15	1	0.41	1.36	8	920	< 1	0.86	118	0.013	< 3
75935 Orig	0.4	8.09	< 3	304	< 1	< 2	2.87	< 0.3	31	223	70	4.99	16	< 1	0.99	3.59	19	742	< 1	3.01	157	0.091	< 3
75935 Dup	0.4	8.03	< 3	303	< 1	< 2	2.88	< 0.3	31	223	71	4.98	18	1	0.98	3.59	19	748	< 1	3.00	158	0.092	< 3
75962 Orig	0.6	8.02	< 3	> 1000	1	< 2	1.17	< 0.3	8	8	44	2.37	21	< 1	1.66	0.37	7	467	< 1	3.16	10	0.073	12
75962 Split PREP DUP	0.7	8.24	4	> 1000	1	< 2	1.05	< 0.3	8	16	34	2.50	23	< 1	2.33	0.36	7	493	< 1	3.22	11	0.074	8
75963 Orig	0.7	1.44	< 3	260	< 1	< 2	0.23	< 0.3	1	14	13	0.70	4	< 1	0.64	0.11	2	142	< 1	0.36	2	0.007	60
75963 Dup	0.6	1.47	< 3	262	< 1	< 2	0.23	< 0.3	1	5	9	0.72	4	< 1	0.65	0.11	2	142	< 1	0.36	3	0.008	61
75980 Orig	< 0.3	11.2	11	80	< 1	4	7.81	< 0.3	45	154	70	5.99	12	< 1	0.30	6.15	17	925	< 1	1.04	183	0.010	< 3
75980 Dup	0.4	10.9	18	79	< 1	3	7.71	< 0.3	47	183	71	5.89	12	4	0.30	6.06	16	911	< 1	1.02	180	0.011	< 3
75995 Orig	0.3	6.73	8	52	< 1	< 2	8.72	< 0.3	51	146	183	10.4	18	< 1	0.22	3.79	15	1430	< 1	1.13	109	0.026	< 3
75995 Dup	< 0.3	5.59	7	49	< 1	3	8.37	< 0.3	50	192	174	9.94	17	< 1	0.19	3.53	14	1410	< 1	1.08	105	0.028	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	1	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	1	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	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
Lower Limit	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
SDC-1 Meas	< 5		16	174		0.14	< 5	< 10	45	< 5		109	31
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		16	167		0.15	< 5	< 10	43	< 5		103	42
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		16	179		0.19	< 5	< 10	53	< 5		109	42
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		16	177		0.24	< 5	< 10	57	< 5		108	45
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		13	159		0.37	< 5	< 10	72	< 5		104	50
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		15	184		0.18	< 5	< 10	50	< 5		103	38
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
Oreas 72a (4 Acid Digest) Meas		1.63											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.66											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.61											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.64											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.63											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.62											
Oreas 72a (4 Acid Digest) Cert		1.74											
OREAS 98 (4 Acid) Meas	< 5	16.6										1370	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	< 5	16.4										1320	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	< 5	16.4										1340	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	< 5	15.9										1340	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	6	15.7										1290	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	< 5	15.9										1300	

Analyte Symbol	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
Lower Limit	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
Acid) Meas													
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
DNC-1a Meas	< 5		29	127		0.27			130		15	65	30
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		29	125		0.26			128		15	63	30
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		31	133		0.27			138		15	65	31
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		30	132		0.28			137		15	64	31
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		28	127		0.27			132		15	63	31
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		29	135		0.27			138		14	62	30
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
OREAS 904 (4 ACID) Meas	< 5	0.06	12	28			< 5	< 10	68	< 5	38	30	108
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	12	27			< 5	< 10	58	< 5	38	28	21
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	12	29			< 5	< 10	82	< 5	37	28	79
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	12	29			< 5	< 10	79	< 5	38	27	76
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	12	28			< 5	< 10	81	< 5	38	28	59
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	12	30			< 5	< 10	84	< 5	34	27	154
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas	< 5		18	168		0.49	< 5	< 10	202	6	28	203	97
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		17	163		0.44	< 5	< 10	197	< 5	27	190	91
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		19	174		0.48	< 5	< 10	202	6	30	193	100
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		19	186		0.50	< 5	< 10	214	< 5	26	189	102
SBC-1 Cert	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	< 5	4.30											464
OREAS 96 (4 Acid) Cert	5.09	4.19											457
OREAS 96 (4 Acid) Meas	< 5	4.30											449
OREAS 96 (4 Acid) Cert	5.09	4.19											457

Analyte Symbol	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
Lower Limit	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
OREAS 96 (4 Acid) Meas	< 5	4.23										456	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.24										455	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.21										450	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.33										457	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	< 5	0.70	13	40		0.41	< 5	< 10	88	9	27	350	117
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.69	13	42		0.41	< 5	< 10	88	10	28	365	123
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.71	13	44		0.42	< 5	< 10	93	11	27	365	124
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.67	13	42		0.42	< 5	< 10	90	8	27	352	124
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.69	13	46		0.41	< 5	< 10	95	13	25	356	119
OREAS 923 (4 Acid) Cert	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	19	4.56	6	73		0.19	< 5	< 10	32	< 5	12	> 10000	154
OREAS 621 (4 Acid) Cert	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	16	4.55	6	73		0.18	< 5	< 10	34	< 5	11	> 10000	150
OREAS 621 (4 Acid) Cert	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	17	4.56	6	76		0.19	< 5	< 10	34	6	11	> 10000	149
OREAS 621 (4 Acid) Cert	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	14	4.63	6	75		0.19	< 5	< 10	33	< 5	12	> 10000	158
OREAS 621 (4 Acid) Cert	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	14	4.50	6	78		0.19	8	< 10	35	< 5	10	> 10000	153
OREAS 621 (4 Acid) Cert	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	17	4.55	6	83		0.19	20	< 10	35	< 5	11	> 10000	154

Analyte Symbol	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
Lower Limit	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
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
75901 Orig	< 5	0.11	24	513	< 2	0.23	< 5	< 10	43	< 5	38	157	38
75901 Dup	< 5	0.11	25	537	2	0.31	< 5	< 10	47	< 5	39	167	52
75916 Orig	< 5	0.02	17	195	4	0.20	< 5	< 10	112	< 5	6	38	15
75916 Dup	< 5	0.02	17	195	7	0.19	< 5	< 10	112	< 5	6	38	15
75935 Orig	< 5	< 0.01	16	344	< 2	0.23	< 5	< 10	77	< 5	9	87	67
75935 Dup	< 5	0.01	16	345	2	0.28	< 5	< 10	87	< 5	9	90	72
75962 Orig	< 5	0.04	< 4	242	4	0.22	< 5	< 10	47	< 5	6	85	101
75962 Split PREP DUP	< 5	0.03	< 4	241	< 2	0.25	< 5	< 10	54	8	6	95	146
75963 Orig	< 5	< 0.01	< 4	54	< 2	0.04	< 5	< 10	13	< 5	1	30	16
75963 Dup	< 5	< 0.01	< 4	55	< 2	0.04	< 5	< 10	11	< 5	1	30	19
75980 Orig	< 5	< 0.01	22	145	3	0.19	< 5	< 10	125	< 5	6	44	12
75980 Dup	< 5	< 0.01	21	142	3	0.18	< 5	< 10	120	< 5	6	46	11
75995 Orig	< 5	0.18	27	235	< 2	0.48	< 5	< 10	242	< 5	12	82	30
75995 Dup	< 5	0.18	23	226	12	0.65	< 5	< 10	276	< 5	10	79	34
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5



Report No.: A20-12814-Au
 Report Date: 21-Oct-20
 Date Submitted: 16-Oct-20
 Your Reference: Vixen

ALX Resources Corp
 103-10183 112 St
 Edmonton Alberta T5K 1M1
 Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

20 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2B-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2020-10-19 10:34:53
1A3-50-Tbay	QOP AA-Au (Au - Fire Assay Gravimetric)	2020-10-20 21:43:25

REPORT **A20-12814-Au**

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

CERTIFIED BY:

Emmanuel Esemé , Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
 TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
146176	7210	
146178	1700	
146179	741	
146188	282	
146189	295	
146197	> 10000	17.7
146198	3800	
146199	2300	
146202	1360	
146209	180	
146210	51	
146217	212	
146218	141	
146227	317	
146244	9	
146259	9	
146262	74	
146263	342	
146264	496	
146265	1140	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
OREAS 229b (Fire Assay) Meas		12.3
OREAS 229b (Fire Assay) Cert		11.9
OREAS 238 (Fire Assay) Meas	3180	
OREAS 238 (Fire Assay) Cert	3030	
OREAS 257b (Fire Assay) Meas		14.5
OREAS 257b (Fire Assay) Cert		14.2
Oreas E1336 (Fire Assay) Meas	518	
Oreas E1336 (Fire Assay) Cert	510	
146197 Orig		16.6
146197 Dup		18.7
146202 Orig	1340	
146202 Dup	1380	
146264 Orig	468	
146264 Dup	524	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02



Report No.: A20-12814-TD
Report Date: 30-Oct-20
Date Submitted: 16-Oct-20
Your Reference: Vixen

ALX Resources Corp
103-10183 112 St
Edmonton Alberta T5K 1M1
Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

20 Rock samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1F2-Tbay | QOP Total (Total Digestion ICPOES) | 2020-10-28 19:23:25

REPORT A20-12814-TD

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:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-12814

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
146176	1.3	1.38	33	10	< 1	3	5.95	1.1	44	8	63	28.8	6	< 1	0.02	2.68	3	4200	1	0.03	430	0.003	< 3
146178	0.6	2.63	50	14	< 1	< 2	2.67	0.5	56	25	70	20.0	10	3	0.01	1.73	9	2360	1	0.02	581	0.029	6
146179	0.6	2.88	37	8	< 1	< 2	3.41	0.6	48	11	37	23.6	9	< 1	< 0.01	1.90	10	2640	3	< 0.01	497	0.026	6
146188	0.7	8.37	4	823	1	< 2	1.11	< 0.3	7	6	28	2.53	20	< 1	1.84	0.44	8	418	8	3.45	17	0.085	12
146189	0.4	1.32	4	112	< 1	< 2	0.70	< 0.3	3	4	2	0.83	2	< 1	0.31	0.07	2	205	5	0.57	5	0.022	49
146197	14.4	1.91	6	203	< 1	< 2	0.38	0.8	9	46	7310	2.16	6	< 1	0.56	0.45	12	171	25	0.36	38	0.023	114
146198	4.3	1.06	3	122	< 1	< 2	0.34	< 0.3	5	28	1840	1.10	3	< 1	0.36	0.25	6	129	19	0.15	21	0.009	13
146199	1.7	4.15	14	367	< 1	< 2	0.42	< 0.3	19	145	211	2.66	11	< 1	1.18	0.79	19	224	17	0.99	60	0.043	9
146202	0.6	3.06	12	10	< 1	3	1.98	0.6	43	15	26	23.6	12	< 1	< 0.01	2.24	8	2120	2	0.01	570	0.032	5
146209	0.6	8.28	6	853	1	< 2	0.92	< 0.3	6	9	17	2.03	20	< 1	2.19	0.37	8	304	< 1	3.59	10	0.083	5
146210	< 0.3	1.83	5	177	< 1	< 2	0.78	< 0.3	2	13	6	0.79	4	< 1	0.48	0.07	2	252	8	0.79	3	0.020	19
146217	3.1	6.55	3	508	< 1	< 2	0.98	0.3	21	134	2310	3.67	16	< 1	1.06	1.20	33	327	1	1.39	90	0.071	7
146218	1.4	7.17	6	592	< 1	< 2	0.90	< 0.3	25	169	790	3.89	18	< 1	1.39	1.34	37	306	1	1.65	98	0.071	< 3
146227	0.4	8.34	< 3	309	< 1	3	3.80	0.5	51	112	79	10.3	21	2	2.00	1.71	25	1090	< 1	1.21	117	0.072	< 3
146244	2.1	5.08	7	65	2	< 2	0.06	< 0.3	3	7	33	1.45	15	< 1	1.31	0.19	10	138	1	2.45	5	0.009	10
146259	0.3	6.69	9	149	< 1	3	1.47	0.5	36	12	42	11.5	20	2	0.33	2.03	14	1710	< 1	2.78	3	0.088	4
146262	0.5	6.48	14	336	1	< 2	0.89	< 0.3	10	6	12	4.85	21	2	1.17	0.28	9	1020	2	2.93	2	0.125	< 3
146263	0.6	2.97	15	117	< 1	< 2	1.67	< 0.3	8	4	12	3.01	6	< 1	0.44	0.14	2	607	4	1.68	3	0.059	9
146264	0.8	6.30	51	250	< 1	< 2	2.71	0.5	9	4	26	5.03	16	1	1.26	0.40	7	999	2	2.85	2	0.146	12
146265	0.8	5.87	17	113	< 1	< 2	2.05	< 0.3	12	2	22	6.77	19	2	1.00	0.66	11	964	7	2.40	3	0.242	6

Analyte Symbol	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
Lower Limit	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
146176	< 5	7.72	< 4	189	6	0.03	< 5	< 10	75	13	5	91	41
146178	< 5	1.54	14	63	12	0.07	< 5	< 10	114	45	7	131	55
146179	< 5	0.72	< 4	62	7	0.10	< 5	< 10	58	7	7	143	71
146188	< 5	0.32	< 4	282	3	0.23	< 5	< 10	41	7	7	58	121
146189	< 5	0.13	< 4	104	< 2	0.04	< 5	< 10	7	< 5	2	11	18
146197	6	1.01	< 4	39	3	0.10	< 5	< 10	31	600	2	40	26
146198	< 5	0.40	< 4	18	< 2	0.06	< 5	< 10	18	7	1	18	16
146199	< 5	0.73	7	60	5	0.17	< 5	< 10	61	16	3	40	46
146202	< 5	0.57	< 4	60	6	0.10	< 5	< 10	75	52	7	158	63
146209	< 5	0.17	< 4	300	5	0.22	< 5	< 10	39	9	7	53	127
146210	< 5	0.05	< 4	159	< 2	0.05	< 5	< 10	9	< 5	2	20	28
146217	< 5	0.51	13	100	3	0.30	< 5	< 10	106	9	5	68	77
146218	< 5	0.52	14	113	3	0.33	< 5	< 10	121	10	5	71	87
146227	< 5	1.37	20	110	6	0.46	< 5	< 10	117	< 5	8	129	32
146244	< 5	0.38	< 4	51	3	0.12	< 5	< 10	14	< 5	16	37	661
146259	< 5	0.43	20	172	5	0.32	< 5	< 10	44	< 5	15	154	31
146262	< 5	0.53	10	156	10	0.53	< 5	< 10	17	14	24	64	153
146263	< 5	1.15	4	124	7	0.27	< 5	< 10	16	22	12	54	80
146264	< 5	1.62	10	201	7	0.57	< 5	< 10	33	38	24	115	176
146265	< 5	2.03	10	171	8	0.61	< 5	< 10	31	45	23	94	162

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas		8.24	< 3	608	2		1.08		18	37	28	4.46	22	2	2.06	0.99	34	870		1.42	39	0.057	23
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		8.26	< 3	560	2		1.05		18	36	29	4.83	23	< 1	2.35	0.99	37	847		1.48	35	0.057	22
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		7.68	< 3	541	2		1.00		17	39	27	4.60	21	< 1	2.29	0.94	35	835		1.43	35	0.053	20
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
Oreas 72a (4 Acid Digest) Meas			< 3						156	156	336	9.06										7040	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.00	
Oreas 72a (4 Acid Digest) Meas			< 3						155	135	338	9.22										6940	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.00	
Oreas 72a (4 Acid Digest) Meas			< 3						150	145	327	9.97										6420	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.00	
OREAS 98 (4 Acid) Meas	41.2					< 2			116		> 10000												283
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.3					< 2			118		> 10000												289
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.9					< 2			120		> 10000												312
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
DNC-1a Meas				92			7.36		53	119	98	6.64	12				5			1.34	252		5
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				88			7.83		56	127	102	7.57	15				5			1.49	258		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				85			7.43		54	168	98	7.23	16				5			1.45	246		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
OREAS 904 (4 ACID) Meas	0.7	6.52	98	165	7	< 2	0.05		93	51	6110	6.33	16		1.78	0.56	16	461	2	0.03	47	0.101	11
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.4	6.51	76	177	7	< 2	0.05		92	46	6120	6.76	19		2.28	0.55	17	429	< 1	0.03	43	0.094	17
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.4	6.29	73	168	7	< 2	0.05		90	56	5980	6.54	16		2.21	0.53	16	396	< 1	0.03	45	0.089	12
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	40.1	0.0980	10.6
SBC-1 Meas			18	735	2	< 2		0.5	23	77	31		27				166		2		89		27
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
SBC-1 Meas			22	663	2	2		0.3	24	76	30		26				163		1		83		30
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
SBC-1 Meas			14	686	2	< 2		0.4	23	75	32		28				169		1		85		34
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
OREAS 96 (4 Acid) Meas	11.3					11			51		> 10000												90

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.8					< 2			52		> 10000												92
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.3					14			52		> 10000												95
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 923 (4 Acid) Meas	1.8	7.44	4	415	2	7	0.51	0.5	24	68	4270	6.18	19		2.39	1.72	30	996	< 1	0.30	40	0.066	79
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.5	7.18	< 3	370	2	7	0.47	0.4	24	58	4270	6.39	22		1.82	1.64	31	947	< 1	0.30	36	0.063	84
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.7	7.15	< 3	379	2	14	0.47	0.3	24	62	4410	6.49	20		2.24	1.67	32	955	< 1	0.32	37	0.063	77
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	35.8	0.0630	83.0
OREAS 621 (4 Acid) Meas	70.5	6.37	63		1	< 2	2.14	275	31	29	3570	3.60	25		1.09	0.51	14	539	13	1.26	32	0.039	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	74.2	6.90	68		1	< 2	2.20	288	31	27	3730	3.80	26		2.09	0.53	14	523	14	1.30	31	0.040	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	71.5	6.76	60		1	< 2	2.11	294	31	27	3860	3.88	26		0.88	0.51	15	524	14	1.34	27	0.039	> 5000
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	26.2	0.0359	13600
146188 Orig	0.7	8.42	4	826	1	< 2	1.12	< 0.3	7	6	28	2.52	20	< 1	1.84	0.44	8	423	9	3.46	16	0.085	13
146188 Dup	0.7	8.32	4	820	1	< 2	1.10	< 0.3	7	6	27	2.53	20	< 1	1.83	0.44	8	414	8	3.44	17	0.085	12
146263 Orig	0.6	2.96	15	116	< 1	< 2	1.66	< 0.3	8	3	12	3.00	6	< 1	0.44	0.14	2	612	4	1.67	3	0.059	9
146263 Dup	0.5	2.98	16	118	< 1	< 2	1.68	< 0.3	8	4	12	3.02	6	< 1	0.44	0.15	2	602	3	1.68	3	0.059	9
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	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
Lower Limit	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
SDC-1 Meas	< 5		14	165		0.08	9	< 10	31	< 5		107	25
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		15	177		0.06	< 5	< 10	26	< 5		107	23
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		14	166		0.08	< 5	< 10	31	< 5		101	28
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
Oreas 72a (4 Acid Digest) Meas		1.71											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.70											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.58											
Oreas 72a (4 Acid Digest) Cert		1.74											
OREAS 98 (4 Acid) Meas	9	14.4										1280	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	7	14.9										1280	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	9	15.3										1380	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
DNC-1a Meas	< 5		27	122		0.26			127		14	62	31
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		28	137		0.28			137		14	67	31
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas	< 5		26	127		0.27			131		14	62	30
DNC-1a Cert	0.96		31	144		0.29			148		18.0	70	38.0
OREAS 904 (4 ACID) Meas	< 5	0.06	11	27			< 5	< 10	78	< 5	34	28	64
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	11	28			< 5	< 10	63	< 5	33	27	54
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.05	11	27			< 5	< 10	61	< 5	33	27	34
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas	< 5		17	166		0.49	< 5	< 10	203	< 5	30	196	109
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		17	171		0.48	< 5	< 10	200	< 5	27	191	102
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		17	173		0.47	< 5	< 10	203	< 5	27	197	102
SBC-1 Cert	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	< 5	4.21										448	

Analyte Symbol	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
Lower Limit	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
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.25										456	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.20										474	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	< 5	0.70	12	41		0.41	< 5	< 10	88	8	27	363	123
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.65	12	42		0.40	< 5	< 10	87	6	25	354	117
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.67	12	43		0.39	< 5	< 10	88	6	26	357	121
OREAS 923 (4 Acid) Cert	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	18	4.59	5	64		0.19	< 5	< 10	32	5	11	> 10000	156
OREAS 621 (4 Acid) Cert	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	21	4.76	7	69		0.19	6	< 10	33	6	13	> 10000	166
OREAS 621 (4 Acid) Cert	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	14	4.49	6	78		0.19	< 5	< 10	33	< 5	12	> 10000	161
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
146188 Orig	< 5	0.32	< 4	285	3	0.22	< 5	< 10	41	7	7	58	122
146188 Dup	< 5	0.32	< 4	280	3	0.23	< 5	< 10	41	8	7	57	120
146263 Orig	< 5	1.15	4	123	7	0.27	< 5	< 10	16	22	12	53	80
146263 Dup	< 5	1.15	4	124	8	0.27	< 5	< 10	16	22	12	55	81
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5



Report No.: A20-12815-Au
Report Date: 19-Oct-20
Date Submitted: 16-Oct-20
Your Reference: Vixen

ALX Resources Corp
103-10183 112 St
Edmonton Alberta T5K 1M1
Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

2 Soil samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1A2B-50-Tbay | QOP AA-Au (Au - Fire Assay AA) | 2020-10-19 10:34:53

REPORT A20-12815-Au

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

CERTIFIED BY:

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
146256	9
146214	5

Analyte Symbol	Au
Unit Symbol	ppb
Lower Limit	5
Method Code	FA-AA
OREAS 238 (Fire Assay) Meas	3180
OREAS 238 (Fire Assay) Cert	3030
Oreas E1336 (Fire Assay) Meas	518
Oreas E1336 (Fire Assay) Cert	510
Method Blank	< 5
Method Blank	< 5



Report No.: A20-12815-TD
Report Date: 30-Oct-20
Date Submitted: 16-Oct-20
Your Reference: Vixen

ALX Resources Corp
103-10183 112 St
Edmonton Alberta T5K 1M1
Canada

ATTN: Patrik Schmidt

CERTIFICATE OF ANALYSIS

2 Soil samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1F2-Tbay | QOP Total (Total Digestion ICPOES) | 2020-10-28 19:23:25

REPORT A20-12815-TD

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Handwritten signature of Emmanuel Eseme

Emmanuel Eseme, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A20-12815

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
146256	0.4	5.63	< 3	491	< 1	< 2	8.74	< 0.3	9	41	23	2.59	13	< 1	1.53	2.05	28	485	< 1	1.50	30	0.068	9
146214	0.6	6.73	< 3	531	< 1	2	4.62	< 0.3	10	40	17	2.52	15	< 1	1.47	1.60	17	509	< 1	2.16	29	0.082	10

Results

Activation Laboratories Ltd.

Report: A20-12815

Analyte Symbol	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
Lower Limit	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
146256	< 5	0.01	7	257	4	0.27	< 5	< 10	61	< 5	13	52	97
146214	< 5	< 0.01	9	349	6	0.29	< 5	< 10	62	< 5	13	42	132

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
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	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas		8.24	< 3	608	2		1.08		18	37	28	4.46	22	2	2.06	0.99	34	870		1.42	39	0.057	23
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		8.26	< 3	560	2		1.05		18	36	29	4.83	23	< 1	2.35	0.99	37	847		1.48	35	0.057	22
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
SDC-1 Meas		7.68	< 3	541	2		1.00		17	39	27	4.60	21	< 1	2.29	0.94	35	835		1.43	35	0.053	20
SDC-1 Cert		8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0	0.0690	25.00
Oreas 72a (4 Acid Digest) Meas			< 3						156	156	336	9.06										7040	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			< 3						155	135	338	9.22										6940	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
Oreas 72a (4 Acid Digest) Meas			< 3						150	145	327	9.97										6420	
Oreas 72a (4 Acid Digest) Cert			14.7						157	228	316	9.63										6930.000	
OREAS 98 (4 Acid) Meas	41.2					< 2			116		> 10000												283
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.3					< 2			118		> 10000												289
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
OREAS 98 (4 Acid) Meas	42.9					< 2			120		> 10000												312
OREAS 98 (4 Acid) Cert	45.1					97.2			121		14800.0												345
DNC-1a Meas				92			7.36		53	119	98	6.64	12				5			1.34	252		5
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				88			7.83		56	127	102	7.57	15				5			1.49	258		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
DNC-1a Meas				85			7.43		54	168	98	7.23	16				5			1.45	246		< 3
DNC-1a Cert				118			8.21		57	270	100	6.97	15				5.2			1.40	247		6.3
OREAS 904 (4 ACID) Meas	0.7	6.52	98	165	7	< 2	0.05		93	51	6110	6.33	16		1.78	0.56	16	461	2	0.03	47	0.101	11
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.4	6.51	76	177	7	< 2	0.05		92	46	6120	6.76	19		2.28	0.55	17	429	< 1	0.03	43	0.094	17
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	40.1	0.0980	10.6
OREAS 904 (4 ACID) Meas	0.4	6.29	73	168	7	< 2	0.05		90	56	5980	6.54	16		2.21	0.53	16	396	< 1	0.03	45	0.089	12
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	40.1	0.0980	10.6
SBC-1 Meas			18	735	2	< 2		0.5	23	77	31		27				166		2		89		27
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
SBC-1 Meas			22	663	2	2		0.3	24	76	30		26				163		1		83		30
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
SBC-1 Meas			14	686	2	< 2		0.4	23	75	32		28				169		1		85		34
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83		35.0
OREAS 96 (4 Acid) Meas	11.3					11			51		> 10000												90

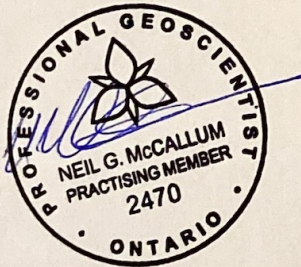
Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm
Lower Limit	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.8					< 2			52		> 10000												92
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 96 (4 Acid) Meas	11.3					14			52		> 10000												95
OREAS 96 (4 Acid) Cert	11.5					26.3			49.9		39300												101
OREAS 923 (4 Acid) Meas	1.8	7.44	4	415	2	7	0.51	0.5	24	68	4270	6.18	19		2.39	1.72	30	996	< 1	0.30	40	0.066	79
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.5	7.18	< 3	370	2	7	0.47	0.4	24	58	4270	6.39	22		1.82	1.64	31	947	< 1	0.30	36	0.063	84
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	35.8	0.0630	83.0
OREAS 923 (4 Acid) Meas	1.7	7.15	< 3	379	2	14	0.47	0.3	24	62	4410	6.49	20		2.24	1.67	32	955	< 1	0.32	37	0.063	77
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	35.8	0.0630	83.0
OREAS 621 (4 Acid) Meas	70.5	6.37	63		1	< 2	2.14	275	31	29	3570	3.60	25		1.09	0.51	14	539	13	1.26	32	0.039	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	74.2	6.90	68		1	< 2	2.20	288	31	27	3730	3.80	26		2.09	0.53	14	523	14	1.30	31	0.040	> 5000
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	26.2	0.0359	13600
OREAS 621 (4 Acid) Meas	71.5	6.76	60		1	< 2	2.11	294	31	27	3860	3.88	26		0.88	0.51	15	524	14	1.34	27	0.039	> 5000
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	26.2	0.0359	13600
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3
Method Blank	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3

Analyte Symbol	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
Lower Limit	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
SDC-1 Meas	< 5		14	165		0.08	9	< 10	31	< 5		107	25
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		15	177		0.06	< 5	< 10	26	< 5		107	23
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 5		14	166		0.08	< 5	< 10	31	< 5		101	28
SDC-1 Cert	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
Oreas 72a (4 Acid Digest) Meas		1.71											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.70											
Oreas 72a (4 Acid Digest) Cert		1.74											
Oreas 72a (4 Acid Digest) Meas		1.58											
Oreas 72a (4 Acid Digest) Cert		1.74											
OREAS 98 (4 Acid) Meas	9	14.4										1280	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	7	14.9										1280	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas	9	15.3										1380	
OREAS 98 (4 Acid) Cert	20.1	15.5										1360	
DNC-1a Meas	< 5		27	122		0.26			127			14	62
DNC-1a Cert	0.96		31	144		0.29			148			18.0	70
DNC-1a Meas	< 5		28	137		0.28			137			14	67
DNC-1a Cert	0.96		31	144		0.29			148			18.0	70
DNC-1a Meas	< 5		26	127		0.27			131			14	62
DNC-1a Cert	0.96		31	144		0.29			148			18.0	70
OREAS 904 (4 ACID) Meas	< 5	0.06	11	27			< 5	< 10	78	< 5	34	28	64
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.06	11	28			< 5	< 10	63	< 5	33	27	54
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	< 5	0.05	11	27			< 5	< 10	61	< 5	33	27	34
OREAS 904 (4 ACID) Cert	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas	< 5		17	166		0.49	< 5	< 10	203	< 5	30	196	109
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		17	171		0.48	< 5	< 10	200	< 5	27	191	102
SBC-1 Cert	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas	< 5		17	173		0.47	< 5	< 10	203	< 5	27	197	102
SBC-1 Cert	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	< 5	4.21										448	

Analyte Symbol	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
Lower Limit	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
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.25										456	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 96 (4 Acid) Meas	< 5	4.20										474	
OREAS 96 (4 Acid) Cert	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	< 5	0.70	12	41		0.41	< 5	< 10	88	8	27	363	123
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.65	12	42		0.40	< 5	< 10	87	6	25	354	117
OREAS 923 (4 Acid) Cert	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	< 5	0.67	12	43		0.39	< 5	< 10	88	6	26	357	121
OREAS 923 (4 Acid) Cert	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	18	4.59	5	64		0.19	< 5	< 10	32	5	11	> 10000	156
OREAS 621 (4 Acid) Cert	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	21	4.76	7	69		0.19	6	< 10	33	6	13	> 10000	166
OREAS 621 (4 Acid) Cert	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	14	4.49	6	78		0.19	< 5	< 10	33	< 5	12	> 10000	161
OREAS 621 (4 Acid) Cert	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5

I, Neil McCallum, of the City of Ottawa, Ontario, do certify that:

- 1) I am a graduate of the University of Alberta, where in 2004 I received a B.Sc. Specialization in Geology degree;
- 2) I have practiced my profession continuously for 17 years since my graduation;
- 3) The information presented herein is based on literature research, supervision and overall review of the work described herein;
- 4) I have no beneficial interest in the properties discussed in this report nor do I expect to receive any in the future.



Neil McCallum
December 28, 2021