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Assessment Report

Amukun Property Thunder Bay Mining Division Northwestern Ontario

Deeds Lake Area (G. 0029), Summit Lake Area (G. 0136, Sollas Lake Area (G. 0403), Willet Lake Area (G. 0156) & Gzowski Lake Area (G. 0182)

Claims

517482, 507013, 507015, 517568, 517493, 517061, 517049, 507019, 517497,
517486, 507027, 517523, 517502, 517105

**Prepared for
Noronex Ltd.**

By
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1. Summary

Clark Exploration Consulting of Thunder Bay, Ontario was contracted by Noronex Ltd, to prepare a Technical Report for Noronex Ltd. This report was edited and minor additions made to conform to the requirements for an assessment report.

The Amukun Property in the Willet Lake Area and Gzowski Township, approximately 245km Northeast of Thunder Bay, Ontario, and 70km north of Geraldton, in the Thunder Bay Mining Division. The approximate UTM coordinates for the centre of the property are 455794E, 5575135N (Datum NAD83 UTM Zone 16N), NTS 42E / 05. The property consists of 492 unpatented claims or 10,142 Hectares.

The Marshall Lake Deposit, located 6km north, is a Joint Venture between Copper Lake Resources and Rainy Mountain Royalty Corp. has an historic non 43-101 compliant drill indicated reserve of 2.21 Mt averaging 1.22% Cu, 4.20% Zn, 2.45 ounces Ag per ton and 0.012 ounces Au per ton (*Canadian and American Mines Handbook, 2005 - 2006, p.289*).

Tashota Deposit ~3km south of the property, also known as the Paulpic Prospect, was reported to contain an historic non 43-101 compliant 200,000 tonnes averaging 0.231 oz Au per ton (*Canadian Mines Handbook, 1984-85*)

Noronex considers the tonnage and grade estimates above as historical estimates. The historical estimates do not use categories that conform to current CIM Definition Standards on Mineral Resources and Mineral Reserves as outlined in National Instrument 43-101, Standards of Disclosure for Mineral Projects ("NI 43-101") and have not been redefined to conform to current CIM Definition Standards. They were prepared in the 1980s prior to the adoption and implementation of NI 43-101. A qualified person has not done sufficient work to classify the historical estimates as current mineral resources and Noronex is not treating the historical estimates as current mineral resources. More work, including, but not limited to, drilling, will be required to conform the estimates to current CIM Definition Standards. Investors are cautioned that the historical estimates do not mean or imply that economic deposits exist on the Property. Noronex has not undertaken any independent investigation of the historical estimates nor has it independently analyzed the results of the previous exploration work in order to verify the accuracy of the information. STM believes that the historical estimates are relevant to continuing exploration on the

Property.

The BAM gold deposit is located on the Junior Lake Property owned by Landore Resources, 13km West northwest of the property, with a 43-101 compliant resource estimate of 28.8 Mt @ 1.03g/t Au for 951,000 oz Au (Fitzpatrick, B., 2019: Preliminary Economic Assessment for the BAM Gold Project, Junior Lake Property. Prepared by Cube Resources for Landore Resources Canada Inc.)

The Amukun Property is located within the east-northeast trending Wabigoon Metavolcanic Belt of the Superior Province and ~60km north of the east-trending Geraldton Metavolcanic-Metasedimentary Belt. Like most of the rocks in the surrounding region, the rocks of the Willet Lake area have been severely deformed and altered by regional and local tectonic events of Early Precambrian age. The property is composed of rocks of the Willet and Marshall assemblages. The property is bound to the west by the Robinson Pluton and to the east by the Deeds pluton.

The work completed on the property in the past has identified the presence of anomalous values of Au, Cu, Ni, and Zn mineralization. Much of the historic work has been focused north of Willet Lake and south east of Dwight Lake. Much of the historic sampling performed by Amukun in 1979 and 1992 was focused east of Hull Lake. Sampling highlights from 1979 include sample A2020 returning 0.55% Ni, sample A2024-2 returning 1.5% Cr and 0.13% Ni. Follow up sampling performed by H. Wood in 1991 returned one sample 17887 with 1.25% Cu.

Noronex conducted a sampling program during a site visit in 2018, collecting samples west of Dorsey Lake which returned anomalous base metals (Cu up to 0.5%) and anomalous gold values up to 242ppb Au.

The Property has undergone extensive logging since the last major work program was carried out, it is recommended that the first thing that should be done is to thoroughly examine the cut-over areas to see if the logging and subsequent scarifying has uncovered any outcrop to ground truth magnetic anomalies. It is expected these will consist of either iron formation hosted within the metasediments or mafic-ultra mafic bodies. New areas of bedrock exposure should be thoroughly mapped, prospected and any mineralization sampled.

This should be followed up with mechanical stripping, trenching, and channel sampling. The new logging roads will allow for easier access to more locations around the Property.

2. Introduction

Clark Exploration Consulting of Thunder Bay, Ontario was contracted by Noronex Ltd., to review historic data for the Amukun Property (the "Property"), identify its merits, propose an appropriate exploration program and budget for Gold, Cu-NiPGE exploration on the property.

The work completed on the property in the past has identified areas of gold, copper, nickel, and zinc mineralization. The property lies in a favourable sedimentary greenstone belt between the Robinson and Deeds Plutons (Figure 3).

3. Property Description and Location

The Amukun Property in the Willet Lake Area and Gzowski Township, approximately 245 km Northeast of Thunder Bay, Ontario, and 70km north of Geraldton, in the Thunder Bay Mining Division. The approximate UTM coordinates for the centre of the property are 455794E, 5575135N (Datum NAD83 UTM Zone 16N) within NTS 42E / 05. The property consists of 381 unpatented claims or 10,142 Hectares, the claim dispositions are listed in Appendix 1.

The Ontario Mining Act requires Exploration Permit or Plans for exploration on Crown Lands. The permit and plans are obtained from the Ministry. The processing periods are 50 days for a permit and 30 days for a plan while the documents are reviewed by Ministry and presented to the Aboriginal communities whose traditional lands will be impacted by the work. The authors recommend the company discuss the recommended exploration with the Ministry to determine the plan and/or permit required as well as the Aboriginal communities to consult. The government of Ontario requires expenditures of \$400 per year per cell for claims, prior to expiry, to keep the claims in good standing for the following year. The report must be submitted by the expiry date.

No mineral resources, reserves or mine existing prior to the mineralization described in this report are known by the author to occur on the Property.

4. Accessibility, Climate, Local Resources, Infrastructure and Physiography

The Property lies approximately 245 km Northeast of Thunder Bay and 90 km Northwest of the town of Geraldton, Ontario (see Figure 1). Access if the property

can be gained by way of an all-weather gravel road (Kinghorn) from Highway 11, which is located approximately 7 km east of Jellicoe. There is also a network of logging roads that provide access to the majority of the property. The Amukun property is connected by road to the CN rail line which lies 6 km south of the property along the Kinghorn Road.

The property lies within the central plateau section of the Boreal Forest Region. Topography in the area has moderate relief, with elevations ranging from 320 meters above sea level at the lakes, to 380 meters above sea level on some of the cliffs in the area. There are a few high hills with excellent exposure and vegetation consisting of poplar, birch, black spruce and jack pine. Low valleys dominated by cedar swamp, tamarack and black spruce typify other areas (Bennett and Middleton, 2009). Generally, lower lying areas have poor outcrop exposure.

Temperatures range from highs of 35 °C in summer to lows of -50 °C in winter, with snow cover between November and May. The best season for exploration is between June and October, although in lake covered or swampy areas exploration activities such as geophysical surveys and diamond drilling might best be conducted after winter freeze up.

The municipality of Greenstone, population 4,636, is located along Trans-Canada Highway 11, 70 km southeast of the property. The local population includes skilled tradesmen and experienced labourers. All necessary supplies are available in Thunder Bay, with basic supplies being available locally. Water is abundant in the area of the claims.

There are no known environmental liabilities associated with the Property. The Property is subject to the guidelines and policies of and legislation administered by MENDM, Ontario Ministry of Natural Resources and Federal Department of Fisheries and Oceans regarding surface exploration, stream crossings, and work being carried out near rivers and bodies of water, drilling and sludge disposal, drill casings, capping of holes, storage of core, trenching, road construction, waste and garbage disposal.



Figure 1 Property Location

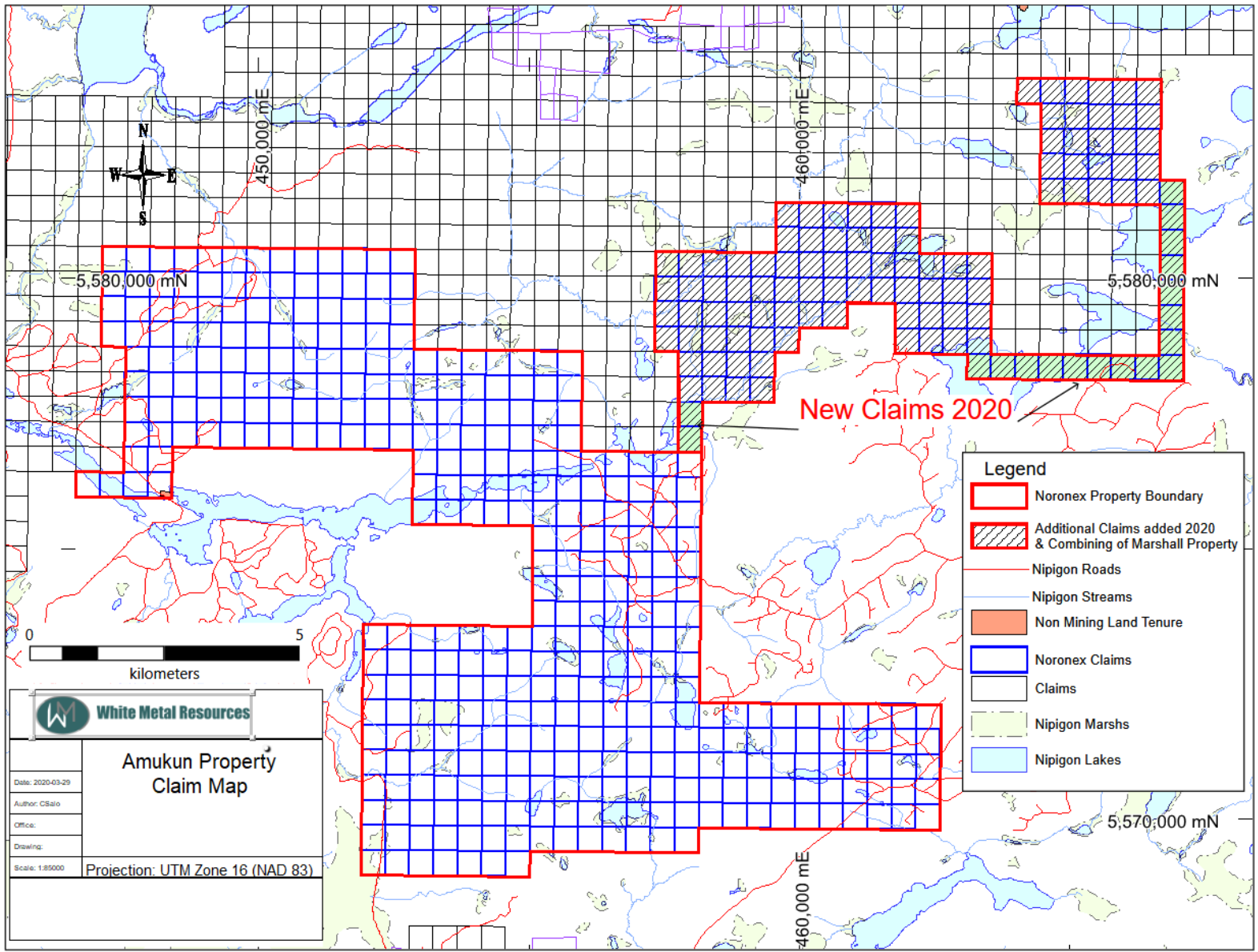


Figure 2 Claim Map

5. History

- 1955: Two (2) diamond drill holes totalling 625 ft (190.5m) on the Willet Lake Group in the Tashota Area located north of Willet Lake. Drill holes logged by R.J. Graham and no assays reported. (AFRI 42L05SE0022)
- 1955: Delmico Mines Limited performed electromagnetic and magnetometer surveys over the property as well as drilling twenty-five (25) drill holes totaling 11,342 ft (3457m). The initial holes proved that there was no mineralogical change laterally of the sulphide zones across the property. Typical assay results of the sulphide sections are as follows Copper 0.03%, Nickel – Nil, Gold- Nil, Silver- Nil. No assay certificates included. (AFRI 42L05SE0017)
- 1955: Geo-scientific Prospectors Limited conducted an Electrical Resistivity Survey on their Gripp Lake Property located north of Willet Lake. The author N. Keevil concluded there is very little variation in resistivity over the property and nothing suggests important concentration of sulphides. (AFRI 42L05SE0021)
- 1955: Alator Corporation performed an Electrical Resistivity Survey on the Gripp Lake Property north of Willet Lake. The survey was indicated two eastwest trending area of low resistivity. (AFRI 42L05SE0020)
- 1955: Baycourse Mines Limited Toronto Lake Property is one and a half miles north of Toronto Lake. The report summarises the property as a prospective area due to the discovery of copper showings about six miles to the northeast by Teck-Hughes organization. (AFRI 42L05SE0023)
- 1959: Sumac Exploration Services Ltd. Conducted a diamond drilling program totaling one (1) drill hole 251.4 ft (76.7m). Drill logs are included but no assays reported. (AFRI 42L05SE0051)
- 1959: Sumac Exploration Services Ltd. Conducted a diamond drilling program, drilling wo (2) holes totalling 374 ft (114m). Drill logs are included but no assays reported. (AFRI 42L04NE0470)
- 1969: Noranda Exploration conducted an Electromagnetic and Magnetometer survey on their Toronto Lake Property, located at the eastern end of Toronto Lake. A number of EM crossovers were found on the property, but only four or five of particular interest. The defined anomalies trend Northwest-south east lying on the west and east side of the southeastern end of Toronto Lake. (AFRI 42L05SW0021)

- 1978: Amax Minerals Exploration conducted an Aeromagnetic Survey on their Willet Group. The area of the survey is between Dwight and Gzowski Lake. The strongest anomalies defined in the survey were interpreted as structurally disturbed, weak iron formation. (AFRI 42L05SE0012)
- 1978: Amax Minerals Exploration conducted an airborne EM and geological mapping program on their Willet-1 property. Of the three conductors of interest, one is associated with an exhalative/sedimentary unit, a second with pyritiferous tuffs and the third is drift and swamp cover. (AFRI 42L05SE8229 p52-65)
- 1979: Amukun, S.E; Geology of the Willet Lake Area, OGS report 183. Amukun sampling of serpentinized peridotite east of Hull Lake confirmed the presence of Cr and Ni in the area. Sample A2020 returned 0.55% Ni, and sample A2024-2 returned 1.5% Cr, and 0.13% Ni.
- 1980: Amax Mineral Exploration conducted a diamond drilling program, drilling one (1) hole totalling 236 ft (72m). Drill logs included but no assays provided. (AFRI 42L05SE0014)
- 1980: Amax Potash Limited (Gzowski-1 property) conducted a diamond drill program, drilling three (3) holes totalling 1699 ft (518.2m). Drill logs included but no assays reported. Locations uncertain but in Gzowski Township. (AFRI 42L05SE0050)
- 1981: Sherritt Gordon Mines Limited conducted an electromagnetic survey on their Tashota Property and identified three conductors on the property. The survey grid was improperly laid out and a resurvey was recommended. (AFRI 42L05SE00006)
- 1987: Tashogan Minerals Ltd. Conducted a mapping and geochemical sampling program collecting 1354 humus samples across the North and South claims blocks (north and south of Tashota Lake). Rock chip samples returned values up to 9680 ppb Au near old working, however areas apart from the old workings with values >10 ppb outlined areas that require further follow up with silicate iron formation noted near all of the sample sites. (AFRI 42L05SE00006)
- 1990: Granges Inc conducted a geological mapping, beepmat prospecting and geochemical survey on their Willet Lake claim group taking 299 rock samples and 37 soil samples. One anomalous Cu value of 720 ppm was obtained from the south east corner of the property (claim 1090858) and

- the best zinc value of 1170 ppm was obtained from sulphide facies Iron formation, on claim group north of the eastern end of Willet Lake. (AFRI 42L05NE0004)
- 1990: G. Gorzynski, H. E. Ewen, Prospecting Report on the Toronto Lake Project where they collected 40 chip and grab samples with the highest assay of 133 ppb Au, and twenty-two (22) soil samples with the highest assay returning 16 ppb Au. Samples were taken near the eastern end of Toronto Lake. (AFRI 42L5SE0001 p.1-19)
- 1991: R.A. Knappett; Prospecting report on the Willet lake property. Sample WIL90-3 returned 0.26% Ni, Sample WIL-90-5 returned 0.09% Cu. Eighty-eight humus sample were collected returning modest nickel anomalies up to 47ppm in close association with the ultramafic sill. (AFRI 42L05SE0003)
- 1992: Amukun Summary Report for Willet Lake Area which included prospecting, rock sampling, geological mapping and a VLF EM survey. In total eleven (11) grab sample were collected and analyzed. Sample 17887 returned assay values of 1.25% Cu, 0.01% Ni, 25ppb Au and <15 and 10 ppb Pt/Pb respectively. (AFRI 42L05SE0010)
- 1994: A. Douglas, G. Binkley; Prospecting report on the Douglas Property. conducted a Beep Mat survey with no assay or values reported. Property is located at the northeastern end of Gzowski Lake. (AFRI 42L06SW0008)
- 2005: C. Lance; Prospecting report on the Dorsey property. A total of four (4) samples were taken with one sample returning 132ppb Au and 16ppm Cu. (AFRI 20000000244).
- 2007: East West Resources conducted a VTEM survey on the Marshall Lake Property located to the North of Noronex's Amukun Property. A number of anomalies were identified on the southern side of Marshall lake that warranted ground follow up. (AFRI 20000002836)
- 2009: East West Resources drilled twenty (20) diamond drill holes totaling 2,913.88 m. the Marshall Gabbro no economic values of Cu or PGE's were reported. (AFRI 200000004033)
- 2011: Montero International SA conducted a Magnetic and VLF-Electromagnetic survey over their 'Checkley-Rentz' option which is south of the Amukun Property. The surveys defined numerous magnetic anomalies consistent

with magnetic iron formation and possibly a mafic intrusion, occurring as broad magnetic anomaly.

6. GEOLOGICAL SETTING AND MINERALIZATION

6.1 Regional Geology

Summarized from S. Amukun 1992

The property is located within the east-northeast trending Wabigoon Metavolcanic Belt of the Superior Province and ~60 km north of the east-trending Geraldton Metavolcanic-Metasedimentary Belt. Like most of the rocks in the surrounding country, the rocks of the Willet Lake area have been severely deformed and altered by regional and local tectonic events of Early Precambrian age. The property is composed of rocks of the Willet and Marshall assemblages. The property is bound to the west by the Robinson Pluton and to the east by the Deeds pluton.

Eastern Wabigoon Subprovince

Willet (tholeiitic) ca. 2740Ma (Stott 2002)

“The Willet assemblage appears to be the dominant assemblage in the greenstone belt. It is composed of massive to pillowed tholeiitic basalt with TiO_2 <1.5% and trace elements geochemical characteristics consistent with either a backarc basin (developed between the Marshall and Elmhirst-Rickaby continental margin arc assemblages) or a mix of ocean floor and lesser primitive island arc affinities. The assemblage contains rare interbeds of dacitic tuff or resedimented tuff. A 2738 Ma dacitic tuff bed, comparable in age to the Marshall assemblage, is interlayered with pillowed basalt on Willet Lake. This implies that the northern part of the Willet assemblage might have developed in a backarc setting contiguous with the Marshall and older Toronto and Tashota assemblages. Rare magnetite-chert, oxide iron formation occurs as high magnetic anomalies on aeromagnetic maps. Iron formation is interlayered with basalt flows between Humbolt Bay on Lake Nipigon and Oboshkegan Township.”

Marshall assemblage ca. 2739Ma (Stott 2002 map)

“The Marshall assemblage is composed of a thick sequence of calc-alkaline dacite lavas and pyroclastic deposits that wrap around the synvolcanic Summit pluton (Stott and Straub 1999). The assemblage can be subdivided into several

separate sequences of flows and tuffaceous units. The lower half of the assemblage, east of the Summit pluton, is composed of very thickly bedded tuff with minor lapilli-tuff beds. In many areas these deformed, biotite-altered and recrystallized rocks are difficult to distinguish from subvolcanic porphyry intrusions of high level cryptodomes. Most of the strata on eastern Marshall Lake are composed of massive to auto-brecciated dacite flows and intrusions with intervening tuffaceous sequences that define a north-striking, openly folded stratification. The Albert-Gledhill metasedimentary assemblage separates the main volcanic centre from a flow and dome complex, in eastern Marshall Lake, composed of dacitic flows and amphibole-garnet-bearing autobreccia. The trace element geochemistry and neodymium isotopic characteristics of this assemblage are consistent with a calc-alkalic, continental margin arc constructed in Mesoproterozoic crust.”

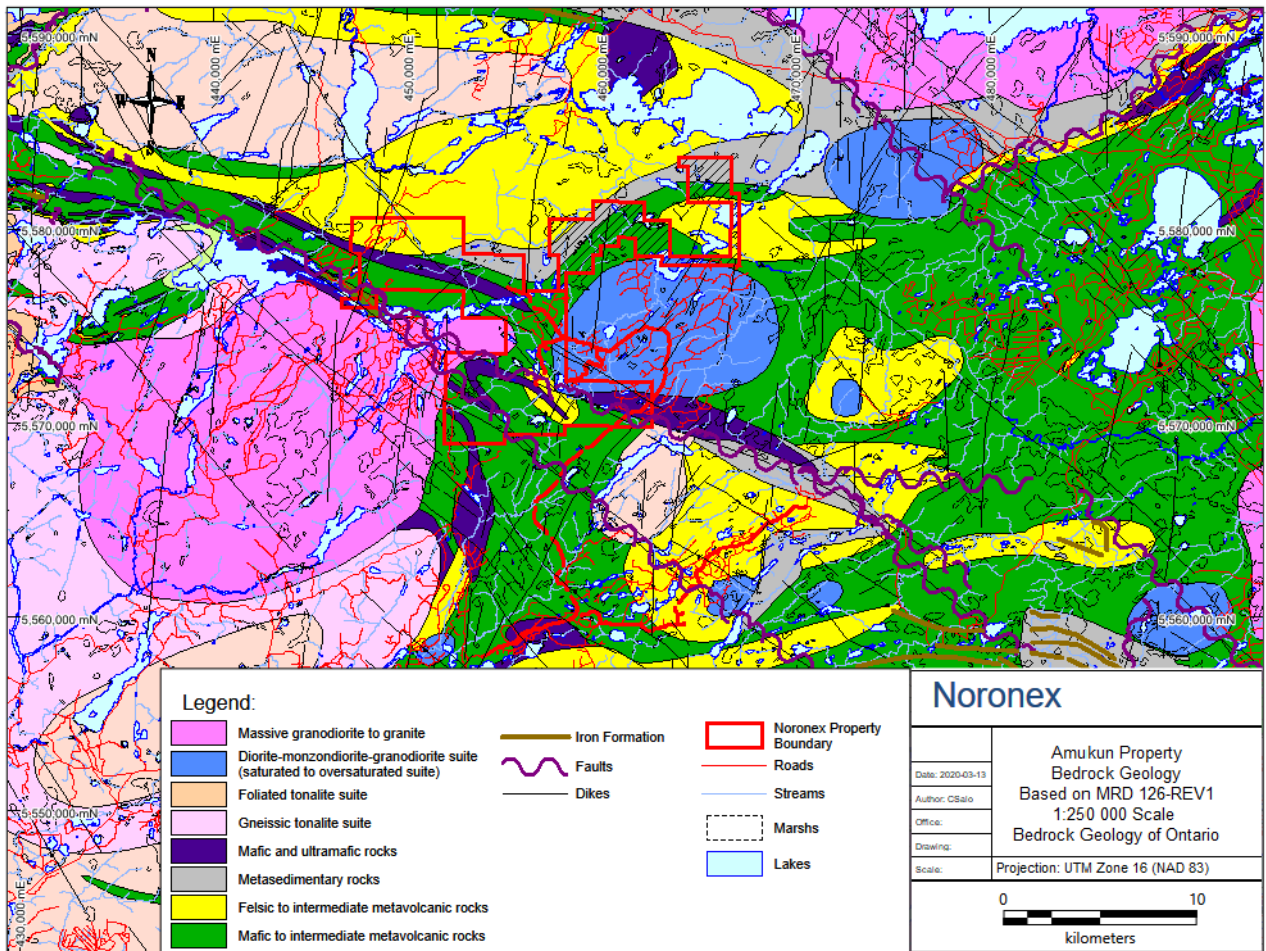


Figure 3 Bedrock Geology, 1:250,000

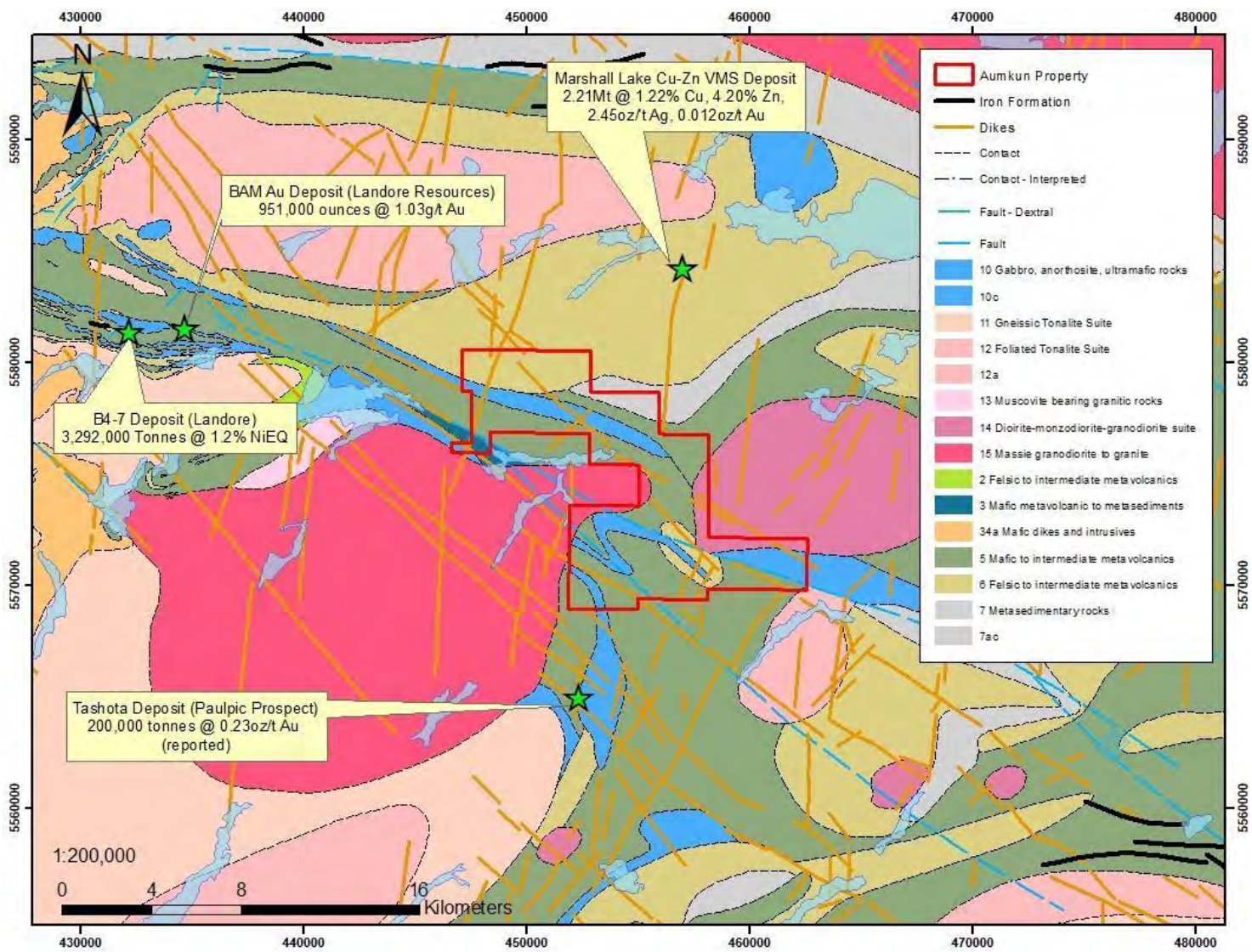


Figure 4 Regional Geology

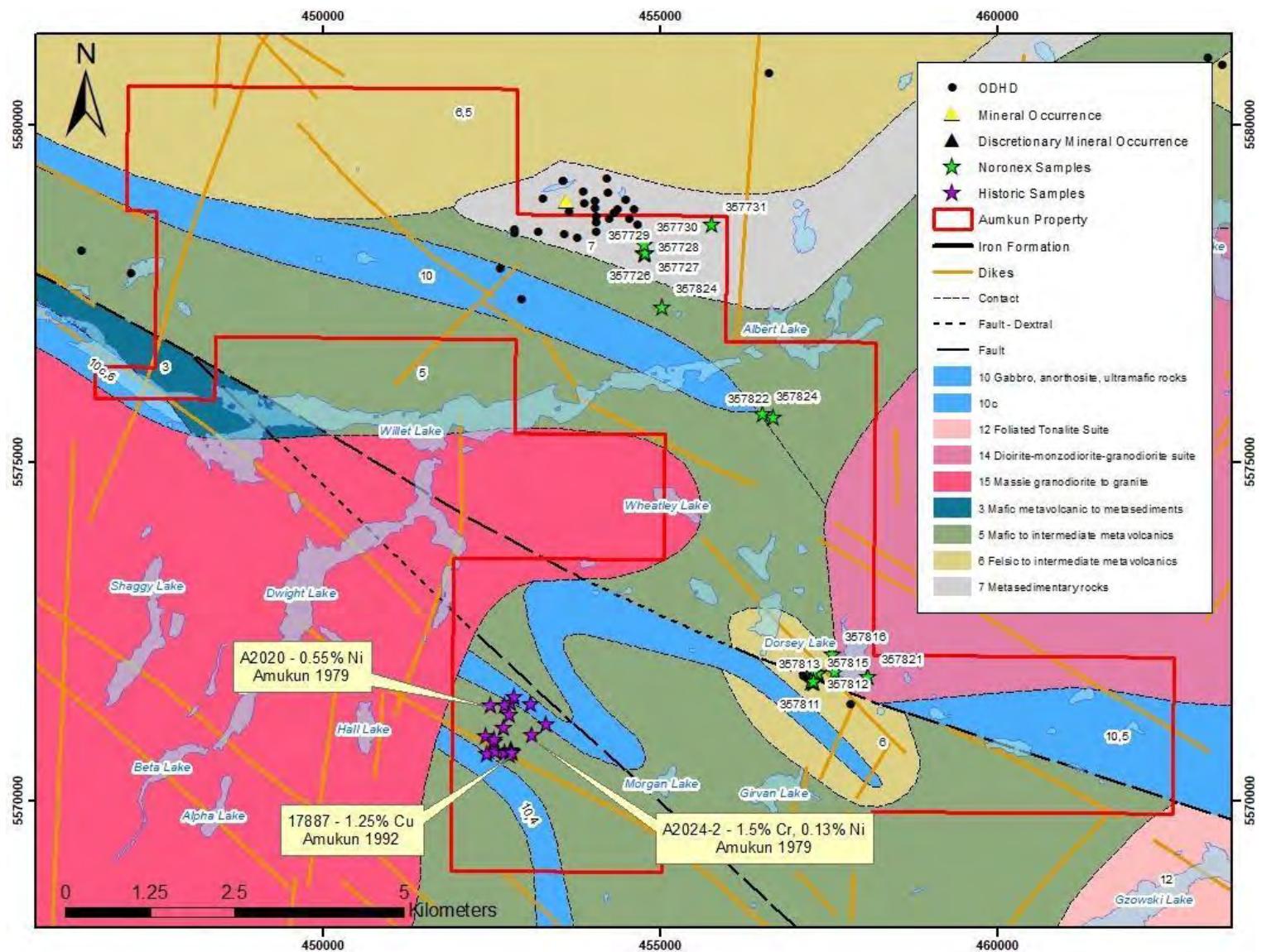


Figure 5 Property Compilation

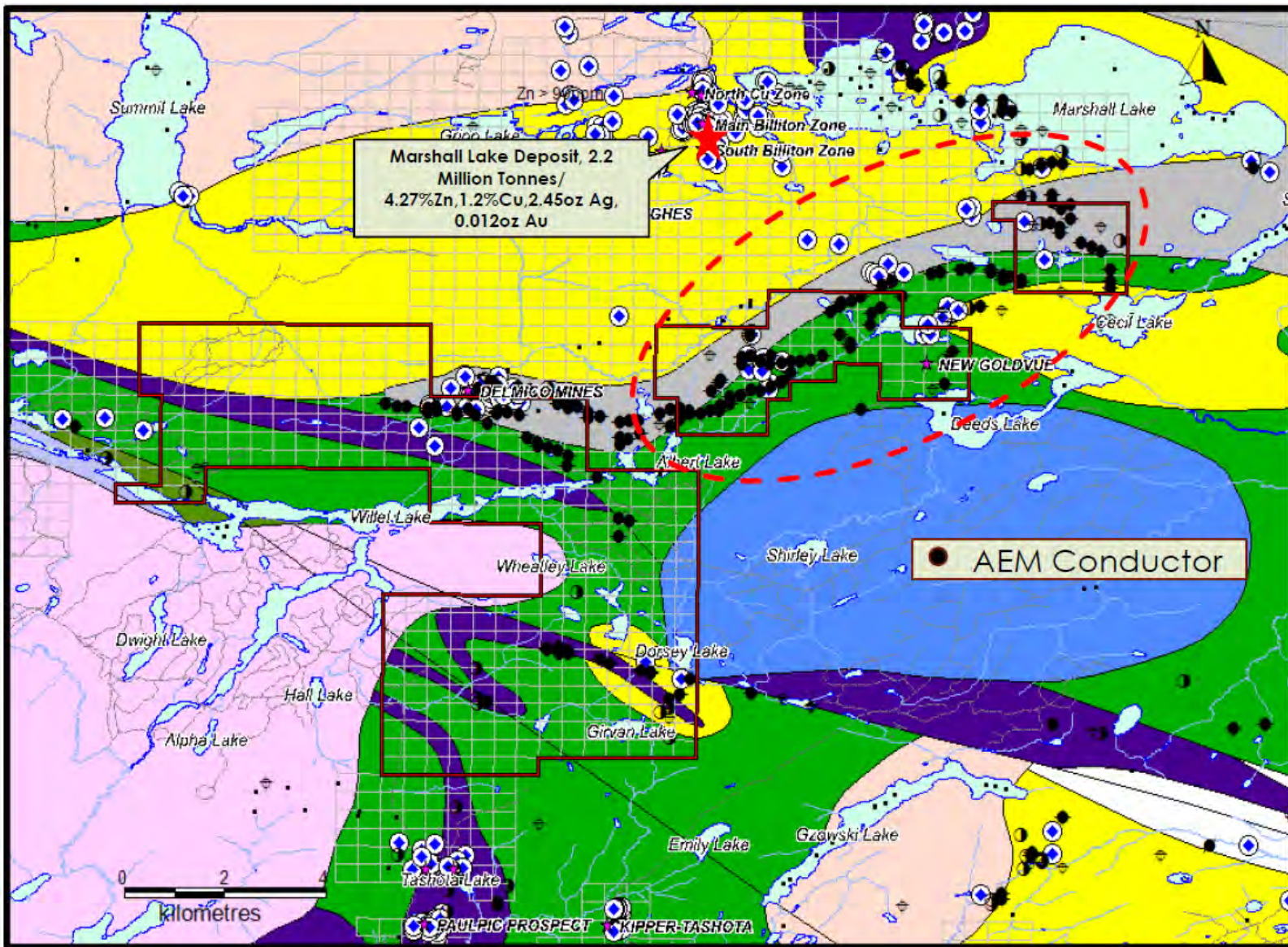


Figure 6 Property Compilation North East

6.2 Property Geology

The Property is dominantly underlain by rocks trending east southeast and dipping steeply north of the Willet Lake assemblage which is composed of massive to pillowed flows of tholeiitic basalt, typically fine grained and nonvecsicular; locally with calcite-filled fractures in Oboshkegan and diffuse iron carbonate-silica alteration with quartz-gold veins west of Gzowski pluton, with interlayered oxide facies magnetite-chert iron formation with tholiitic basalt. This has been intruded by fine to medium grained gabbro to leucogabbro interpreted as syn-volcanic sills and small intrusions within the basaltic flows of the Willet assemblage. The property is bound to the north by the lower Marshall lake assemblage which is composed of a thick sequence of calc-alkaline dacite lavas and pyroclastic deposits that wrap around the syn-volcanic Summit pluton (Stott and Straub 1999). Dacite tuff to local lapilli tuff and tuff breccia with widespread syn-volcanic hydrothermal alteration locally concentrated near massive sulphide deposits southwest of Marshall lake. Individual tuffaceous units are distinguishable west of Marshall Lake with oxide facies magnetite-chert iron formation west of Deeds pluton.

The mafic volcanic rocks of the Willet assemblage consist mainly of pillowed and massive basalt flows. These rocks are typically grey weathering and dark grey to green-black on fresh surface. Pillowed flows predominate over massive flows. The pillowed flows range from highly deformed to only lightly stretched. The thick mafic volcanic flows are frequently separated by sections of fragmental rocks, layered andesite tuff, and iron formation. The tuffaceous and fragmental rocks commonly flank iron formations.

6.3 Mineralization - Deposit Types

The deposit type that Noronex will be targeting is Magmatic Cu-Ni-PGE deposit, as defined by Eckstrand et al (2007).

“Magmatic deposits containing exploitable quantities of nickel, copper, and platinum group elements (PGE) are associated with variable quantities of localized sulphide concentrations in mafic and ultramafic rocks. Ni-Cu deposits, nickel being the main economic commodity, are associated with high concentration of sulphides, and the host bodies are classified based on the nature of the confining magmatic environment: (1) meteorite-impact, (2) rift and continental flood basalt, (3) komatiitic, and (4) other related magmatic mafic/ultramafic bodies. Platinum group element deposits are confined with mafic/ultramafic bodies, but are associated with low quantities of sulphides. Reef-type or stratiform PGE deposits form in large, well-layered mafic/ultramafic intrusion, whereas magmatic breccia-type deposits occur in stock-like or layered

bodies. Magmatic PGE deposits and Ni-Cu sulphide deposits are the source of essentially all of the world's platinum group elements.

Magmatic Ni-Cu-PGE deposits are consistently found in association with mafic and/or ultramafic magmatic bodies, but these parent bodies occur in diverse geological settings. Their ages are predominantly Archean and Paleoproterozoic.

Economic Platinum Group Element deposits are extremely rare. Two districts, Bushveld and Noril'sk-Talnakh, supply the majority of the world's PGE, although Noril'sk-Talnakh has not been considered primarily a PGE deposit (Cawthorn, 1999; Cawthorn et al., 2002). Stillwater (Zientek et al., 2002) is the only other significant PGE producer of this type. Lac de Iles (Hinchey and Lavigne, 2005), small by comparison, is Canada's only producer of this type of deposit.

An obvious feature of the few economic PGE deposits in the world is the large size of their host intrusions. An apparent exception is the smaller Lac des Iles intrusion, but it is just one of a number of comagmatic plutons in the area, which together constitute a significant magma system. Mafic magmas have very low contents of PGE. Despite the high R factor of PGE (e.g., the high partition coefficients of PGE), the sulphide has apparently equilibrated with large proportions of magma to form economic PGE deposits. Another feature shared by most known examples is the small amount of sulphide (less than 3%) with which the PGE are associated. The sparsely disseminated sulphide is mainly chalcopyrite, but also includes pentlandite and pyrrhotite. The PGE minerals occur in very minute quantities that have apparently exsolved from the iron and base metal sulphides during cooling (Cabri, 2002). They include a host of known as well as unnamed minerals. Pentlandite is the only common sulphide mineral that contains a significant amount of any PGE, in this case Pd. The small amount of sulphide appears because the only S involved is the original mantle S, with little or no addition from the intruded wall rocks. Because the solubility of S in mafic magmas is quite low, the amount of sulphide produced when the magma reaches saturation is very small, resulting in small, sparsely dispersed sulphides. This is in distinct contrast with Ni-Cu sulphide deposits in which the ore consists of rich concentrations of sulphide. Two distinct modes of PGE deposits are (1) the reef type, and (2) the magmatic breccia type. Of the two, only the reef type has proved to be a major producer." Eckstrand et al (2007)

7. Exploration

Noronex crews visited the Amukun property in the 2018 field season and collected 38 grab samples from various locations on the property (maps 1A, 1B&1C).

Sampling confirmed the presence of anomalous gold, and copper/zinc mineralization on the southern portion of the property with grab samples.

Table 1 Sample Descriptions with Assays

Sample	Desc	easting	Northing	Zone	elevation	Au		Ag		Cu		Zn		Au		Pd		Pt	
						ppb	FA-AA	ppm	AR-ICP	ppm	AR-ICP	ppm	AR-ICP	ppb	FA-ICP	ppb	FA-ICP	ppb	FA-ICP
357726	Same as 727 further to south by 2 meters	454785	5578104	16U	1083.163	7	<0.2	5	5										
357727	Old mine site massive py breccia	454785	5578108	16U	1091.555	<5	0.2	14	13										
357728	Same as 727 9 m to south	454782.2	5578098	16U	1091.555	10	0.2	7	29										
357729	Same as 728 only more po	454790.5	5578105	16U	1085.787	13	0.3	8	24										
357730	Old pit IF massive sulfides py po	454771	5578232	16U	1092.52	16	0.5	7	35										
357734	Magnetit IF Large blast area	458416.5	5578895	16U	1106.503	11	0.3	<1	8										
357736	Near con garnet alteration up to 1%po	463238.6	5579685	16U	1116.011	<5	<0.2	5	17										
357737	Felsic IF Garnet alter oc 5%po py	463313.5	5579746	16U	1123.77	<5	<0.2	12	41										
357738	Mix of felsic and IF near con garnet alter oc	463312.3	5579746	16U	1115.81	<5	<0.2	6	26										
357745	IF Massive po old trench	461281.8	5579774	16U	1078.205	17	0.4	43	96										
357746	IF Mag & po oc	460936.1	5580144	16U	1098.153	8	0.7	5	33										
357747	Otz vein and other sulfide	461004.5	5580260	16U	1086.749	<5	<0.2	2	3										
357748	Rusty felsic gamet alt 1% po	460879.8	5580506	16U	1084.649	<5	<0.2	15	16										
357749	SIF OC 20%po	460873.1	5580658	16U	1087.789	7	0.2	3	33										
357750	IF Massive sul 30% po oc	460901.4	5580766	16U	1078.875	<5	0.6	21	226										
357801	Banded mafic qtz flooded tr py	457604.9	5571901	16U	1179.741	14	<0.2	22	38										
357802	Same as 803	457345.6	5571882	16U	1169.544	81	<0.2	4	11										
357803	Sil IF 15%PY 1M wide ca L	457353.8	5571885	16U	1177.192	188	<0.2	7	17										
357804	Sheared IF Sil 5%py 1meter wide	457352.8	5571883	16U	1172.943	52	<0.2	10	16										
357805	Massive po IF 3m wide	457274.5	5571905	16U	1174.049	242	0.5	22	10										
357806	Banded IF stringes ofpy	457270.5	5571909	16U	1182.602	91	<0.2	3	5										
357807	Same as 808	457274.5	5571905	16U	1173.95	11	<0.2	8	8										
357807	Rusty IF Qtz 15% py	457275.7	5571907	16U	1180.981	80	<0.2	9	9										
357809	Sulfide band 20% py in IF ?	457257.2	5571767	16U	1230.141	<5	<0.2	35	19										
357810	Massive po in old trench oc	457244.8	5571768	16U	1232.503	7	0.4	54	75										
357811	Brecciated if stringer py oc	457243.4	5571761	16U	1232.323	7	0.4	45	250										
357812	Massive po in IF OC Old trech	457288.9	5571757	16U	1223.301	<5	0.3	74	42										
357813	Semi massive py in old trench blast rock	457287.8	5571752	16U	1214.403	11	<0.2	53	40										
357815	Sil certy 5% PY OC	457290.5	5571771	16U	1205.436	<5	<0.2	78	33										
357816	Sil mafic 10%py tr cpy subctop boulder	457564	5572160	16U	1177.234	<5	1.5	5210	98										
357817	Massive po py camp sample	458098.2	5571832	16U	1139.288		0.3	108	336										
357818	Camp sample sil ser sch 10 %cubic py	458095.9	5571834	16U	1140.207	> 5000	0.8	55	32										8.55
357819	Camp sample cpy 10% back mineral zinc ?	458098.5	5571833	16U	1138.888		> 100	> 10000	> 10000										
357820	Sil felsic 4% cpy bourmite camp sample	458100.3	5571829	16U	1146.66	193	50.3	> 10000	304										
357821	Sil intrusive	458099.6	5571832	16U	1136.408	<5	1.1	478	183										
357822	Old tr sil fel gar alter 10%po 2m wide	456690.7	5575677	16U	1169.078	<5	0.4	105	55										
357824	Large IF OC ON ROAD 30% PO	455040.9	5577309	16U	1152.779	<5	0.2	28	23										
357825	SIF 10%PO	456534.3	5575721	16U	1206.818	6	0.2	36	143										

Samples were taken by Noronex employees with a sample tag placed in the bag and then the bag sealed. Samples were taken from the field directly to Actlabs Thunder Bay for analysis. Samples submitted underwent Fire Assay, ICP, and Aqua Regia ICP. Values that exceed upper limit were re-assayed by fire assay gravimetric. Analytical results are presented in Appendix IV.

8. Interpretation and Conclusions

Previous work on the property has confirmed the presence of anomalous precious metals and base metals across the Amukun Property which is continued within the mafic rocks of the willet lake assemblage and associated snyvolcanic intrusions.

Noronex has confirmed the presence of anomalous gold and base metals within the mafic/ultramafic bodies and iron formation present on the Amukun Property. Further follow up of magnetic anomalies in the areas between the Deeds and Robinson plutons is warranted given the encouraging results from Noronex's recent sampling. Efforts should be made to re-sample and confirm historic showings east of the Robinson Pluton with prospective areas undergoing stripping and trenching along strike and a phase of channel sampling being undertaken.

9. Recommendations

Noronex has confirmed the presence of anomalous base metals west of Dorsey Lake on the Amukun Property. The area east of Dwight Lake remains underexplored within the folded mafic-ultramafic rocks that were originally sampled by Amukun in 1979, 1991, and 1992. This area warrants further prospecting, mapping, and sampling of any mineralization to confirm the presence of PGE within these units.

The Property has undergone continued logging since the last work was performed, it is recommended that thorough prospecting, mapping and sampling program of the cut-over areas, New exposures of bedrock exposure should be thoroughly mapped, prospected and any mineralization sampled to determine the potential of the areas. The new logging roads will allow for easier and quicker access to more locations on the Property.

10. References

Note: Notations listed in the references below in the format “AFRI 52N02NW0044” refer to assessment files archived with the Ontario Ministry of Northern Development and Mines on the MNDM website (www.geologyontario.mndm.gov.on.ca/).

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**Appendix 1
Claim List**

Tenure No.	Title Type	Issue Date	Anniversary	Holder
507010	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507011	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507012	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507013	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507014	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507015	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507016	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507017	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507018	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507019	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507020	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507021	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507022	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507023	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507024	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507025	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507026	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
507027	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511636	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511637	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511638	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511639	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
511640	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511641	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511642	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511643	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511644	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511645	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511646	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511647	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511648	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511649	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511650	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511651	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511652	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511653	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511654	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511655	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511656	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511657	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511658	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511659	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511660	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511661	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
511662	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511663	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511664	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511665	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511666	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511667	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511668	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511669	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511670	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511671	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511672	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511673	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511674	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511675	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511676	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511677	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511678	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511679	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511680	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511681	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511682	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited
511683	Single Cell Mining Claim	20180410	20200410	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
516915	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516916	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516917	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516918	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516919	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516920	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516921	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516922	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516923	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516924	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516925	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516926	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516927	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516928	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516929	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516930	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516931	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516932	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516933	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516934	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516935	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516936	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
516937	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516938	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516939	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516940	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516941	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516942	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516943	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516944	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516945	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516946	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516947	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516948	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
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516950	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516951	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516952	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516953	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516954	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516955	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516956	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516957	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516958	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
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516960	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516961	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516962	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516963	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516964	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516968	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516969	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516970	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516971	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516972	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516973	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516974	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516975	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516976	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516977	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516978	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516979	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516980	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516981	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516982	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
516983	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
516984	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517038	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517039	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517040	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517041	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517042	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517043	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517044	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517045	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517046	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517047	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517048	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517049	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517050	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517051	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517052	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517053	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517054	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517055	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517056	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517057	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517058	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517059	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517060	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517061	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517062	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517063	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517064	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517065	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517066	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517067	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517068	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517069	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517070	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517071	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517072	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517073	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517074	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517075	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517076	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517077	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517078	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517079	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517080	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517081	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517082	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517083	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517084	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517085	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517086	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517087	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517088	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517089	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517090	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517091	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517092	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517093	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517094	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517095	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517096	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517097	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517098	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517099	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517100	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517101	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517102	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517103	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517104	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517105	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517106	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517107	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517108	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517109	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517110	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517111	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517112	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517113	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517114	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517115	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517116	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517117	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517118	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517119	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517120	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517121	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517122	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517123	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517124	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517125	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517126	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517127	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517128	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517129	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517130	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517131	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517132	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517133	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517134	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517135	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517136	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517137	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517138	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517139	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517140	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517141	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517142	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517143	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517144	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517145	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517146	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517147	Single Cell Mining Claim	20180416	20200416	(100) Noronex Limited
517262	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517263	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517264	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517265	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517266	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517267	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517268	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517269	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517270	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517271	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517272	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517273	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517274	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517275	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517276	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517277	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517278	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517279	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517280	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517281	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517282	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517283	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517284	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517285	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517286	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517287	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517288	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517289	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517290	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517291	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517292	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517293	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517294	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517295	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517296	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517297	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517298	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517299	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517300	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517313	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517314	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517315	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517316	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517317	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517318	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517319	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517320	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517321	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517322	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517323	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517324	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517325	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517326	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517327	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517328	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517329	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517330	Single Cell Mining Claim	20180418	20200418	(100) Noronex Limited
517479	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517480	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517481	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517482	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517483	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517484	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517485	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517486	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517487	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517488	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517489	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517490	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517491	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517492	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517493	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517494	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517495	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517496	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517497	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517498	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517499	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517500	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517501	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517502	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517503	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517504	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517505	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517506	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517507	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517508	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517516	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517517	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517518	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517519	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517520	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517521	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517522	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517523	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517524	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517525	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517526	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517527	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517528	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517529	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517530	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517531	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517532	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517533	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517534	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517535	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517536	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517537	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517538	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517539	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517540	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517541	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517542	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517543	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517544	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517545	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517546	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517547	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517548	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517549	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517550	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517551	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517552	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517553	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517554	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517555	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517556	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517557	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517558	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517559	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
517560	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517561	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517562	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517563	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517564	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517565	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517566	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517567	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517568	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517569	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517570	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517571	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517572	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517573	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517574	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517575	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517576	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517577	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517578	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517579	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517580	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited
517581	Single Cell Mining Claim	20180419	20200419	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
518485	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518486	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518487	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518488	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518489	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518490	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518491	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518492	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518493	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518494	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518495	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518496	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518497	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518498	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518499	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518500	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518501	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518502	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518503	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518504	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518505	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518506	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited

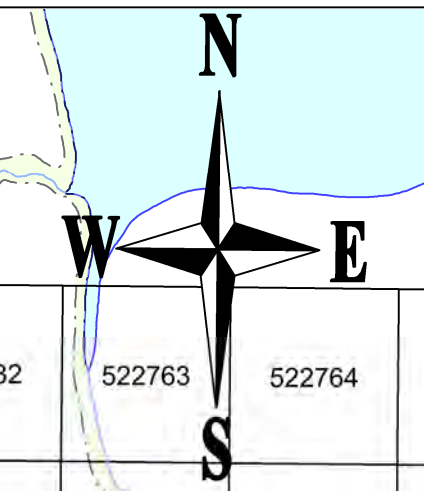
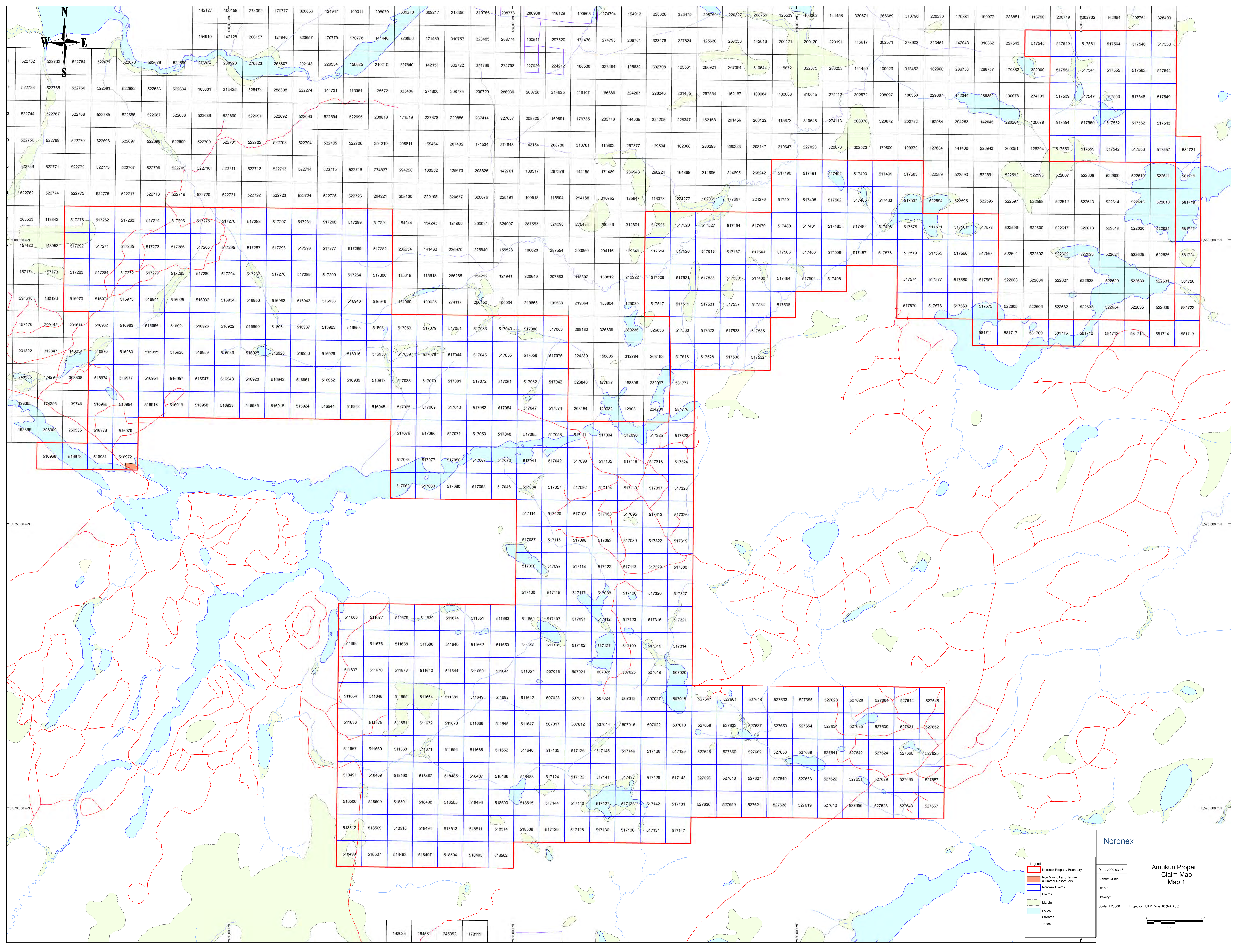
Tenure No.	Title Type	Issue Date	Anniversary	Holder
518507	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518508	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518509	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518510	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518511	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518512	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518513	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518514	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
518515	Single Cell Mining Claim	20180424	20200424	(100) Noronex Limited
527618	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527619	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527620	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527621	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527622	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527623	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527624	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527625	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527626	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527627	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527628	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527629	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527630	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
527631	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527632	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527633	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527634	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527635	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527636	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527637	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527638	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527639	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527640	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527641	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527642	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527643	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527644	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527645	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527646	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527647	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527648	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527649	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527650	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527651	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527652	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
527653	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527654	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527655	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527656	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527657	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527658	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527659	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527660	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527661	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527662	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527663	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527664	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527665	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527666	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
527667	Single Cell Mining Claim	20180819	20200819	(100) Noronex Limited
581709	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581710	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581711	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581712	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581713	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581714	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581715	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited

Tenure No.	Title Type	Issue Date	Anniversary	Holder
581716	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581717	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581718	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581719	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581720	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581721	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581722	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581723	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581724	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581776	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited
581777	Single Cell Mining Claim	20200311	20220311	(100) Noronex Limited

**Appendix II
Claim Map**



- Legend:**
- Noronex Property Boundary
 - Non Mining Land Tenure (Summer Resort Loc)
 - Noronex Claims
 - Claims
 - Marshes
 - Lakes
 - Streams
 - Roads

Noronex

Date: 2020-03-13
 Author: CSalo
 Office:
 Drawing:
 Scale: 1:20000 Projection: UTM Zone 16 (NAD 83)

**Amukun Prope
Claim Map
Map 1**

0 2.5
kilometers

192033	164581	245352	178111
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**Appendix III
Personnel**

Contractors/Personnel	Name	Description
Gary Clark Exploration	Gary Clark	Report used as main source for writing of the assessment report
Mick Stares	Mick Stares	Compilation of data, create Maps, determine targets and exploration program, Prospecting
Hickman Prospecting	Cliff Hickman	Propecting
Bob Heilman	Bob Heilman	Propecting
Salo Geoscience	Cathy Salo	GIS, report
Paul Nielsen	PaulNielsen	GIS, Maps

Appendix IV
Assay Certificates



Date Submitted: 20-Jul-18
Invoice No.: A18-09492
Invoice Date: 30-Aug-18
Your Reference: Noronex-Geraldton

Stares Contracting
684 Squier St.
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

104 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)
Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)
Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A18-09492**

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

Notes:

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

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

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized and somewhat cursive, with a horizontal line drawn underneath it.

Emmanuel Esemé , Ph.D.
Quality Control

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

Results

Activation Laboratories Ltd.

Report: A18-09492

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
357681	9	< 0.2	< 0.5	21	1140	< 1	15	4	21	0.72	24	< 10	14	< 0.5	< 2	2.44	14	3	11.0	< 10	2	0.08	< 10
357682	28	0.2	< 0.5	12	47	< 1	5	18	< 2	0.05	16	< 10	< 10	< 0.5	3	0.03	2	3	2.96	< 10	< 1	0.02	< 10
357683	< 5	< 0.2	< 0.5	104	199	< 1	10	15	23	1.97	< 2	< 10	34	0.7	3	0.08	15	5	3.13	< 10	< 1	0.25	22
357684	< 5	< 0.2	< 0.5	221	667	< 1	14	< 2	48	2.22	< 2	< 10	< 10	< 0.5	< 2	2.42	27	3	6.36	10	3	0.10	< 10
357685	< 5	0.2	< 0.5	185	736	< 1	178	< 2	9	2.15	< 2	< 10	40	< 0.5	< 2	0.31	65	134	8.14	< 10	2	0.52	< 10
357686	5	0.3	< 0.5	232	803	< 1	198	< 2	5	1.99	< 2	< 10	34	< 0.5	< 2	0.26	69	113	7.84	< 10	< 1	0.38	< 10
357687	6	0.2	< 0.5	201	1100	< 1	151	< 2	5	1.30	< 2	< 10	29	< 0.5	< 2	0.07	96	150	15.1	< 10	< 1	0.36	< 10
357688	15	0.3	< 0.5	500	1500	< 1	184	4	62	3.74	7	< 10	26	< 0.5	3	0.60	117	124	12.4	10	2	0.23	< 10
357689	5	< 0.2	< 0.5	37	362	< 1	11	< 2	23	0.22	4	< 10	12	< 0.5	4	0.30	9	5	5.55	< 10	< 1	0.04	< 10
357690	< 5	< 0.2	< 0.5	17	409	< 1	2	2	10	0.03	< 2	< 10	11	< 0.5	< 2	0.03	< 1	3	8.12	< 10	< 1	0.03	< 10
357691	< 5	< 0.2	< 0.5	30	314	< 1	5	2	20	0.05	4	< 10	25	< 0.5	3	0.30	< 1	2	14.6	< 10	2	0.04	< 10
357692	23	0.8	< 0.5	224	311	< 1	77	5	31	0.66	6	< 10	< 10	< 0.5	3	0.08	23	53	27.4	< 10	< 1	0.02	< 10
357693	< 5	< 0.2	< 0.5	103	265	< 1	22	< 2	29	0.25	4	< 10	< 10	< 0.5	< 2	0.05	6	11	8.92	< 10	< 1	0.01	< 10
357694	18	0.5	< 0.5	423	722	< 1	270	3	69	2.37	12	< 10	< 10	< 0.5	2	0.10	189	106	20.5	< 10	< 1	0.33	< 10
357695	< 5	0.2	0.7	192	1020	< 1	129	< 2	63	2.92	2	< 10	34	< 0.5	< 2	0.10	15	136	12.9	< 10	2	0.53	< 10
357696	< 5	0.4	< 0.5	637	1720	< 1	96	< 2	3	1.25	< 2	< 10	46	< 0.5	< 2	0.08	41	203	16.3	< 10	< 1	0.23	< 10
357697	< 5	0.9	< 0.5	499	786	< 1	96	< 2	13	0.42	4	< 10	< 10	< 0.5	2	0.42	103	10	24.6	< 10	< 1	< 0.01	< 10
357698	< 5	0.4	< 0.5	392	2290	3	158	< 2	5	0.97	9	< 10	< 10	< 0.5	< 2	4.03	15	32	19.9	< 10	< 1	< 0.01	< 10
357699	45	8.1	< 0.5	3230	141	< 1	447	3	15	0.02	4	< 10	< 10	< 0.5	6	0.08	1300	< 1	> 30.0	< 10	< 1	< 0.01	< 10
357700		53.3	3.1	> 10000	332	3	181	< 2	244	0.77	< 2	< 10	< 10	< 0.5	7	0.84	511	49	24.1	< 10	2	0.15	< 10
357701		> 100	14.5	> 10000	122	< 1	135	< 2	813	0.03	< 2	< 10	< 10	< 0.5	< 2	0.06	425	< 1	> 30.0	< 10	2	< 0.01	< 10
357702	13	2.8	< 0.5	341	129	3	514	8	40	0.46	26	< 10	< 10	< 0.5	< 2	0.76	166	149	20.8	< 10	< 1	< 0.01	< 10
357703	9	2.6	1.7	60	78	5	39	87	130	0.64	38	< 10	16	< 0.5	< 2	0.86	16	260	2.86	< 10	< 1	0.06	< 10
357704	7	0.9	< 0.5	26	27	< 1	32	12	28	0.13	56	< 10	< 10	< 0.5	< 2	0.13	52	7	19.7	< 10	< 1	0.02	< 10
357705	6	0.9	1.1	62	45	3	80	26	191	0.57	76	< 10	< 10	< 0.5	< 2	0.45	61	20	18.2	< 10	< 1	0.08	< 10
357706	< 5	0.6	< 0.5	2	31	< 1	43	11	12	0.22	81	< 10	< 10	< 0.5	< 2	0.25	48	16	19.1	< 10	< 1	0.02	< 10
357707	< 5	0.7	< 0.5	9	36	< 1	50	15	38	0.30	89	< 10	< 10	< 0.5	2	0.32	41	8	19.2	< 10	< 1	0.03	< 10
357708	19	1.4	< 0.5	17	36	3	46	149	11	0.26	95	< 10	< 10	< 0.5	2	1.48	59	21	16.4	< 10	< 1	0.02	< 10
357709	17	10.0	4.8	249	173	< 1	115	2060	440	1.95	20	< 10	< 10	< 0.5	< 2	3.52	6	62	4.75	< 10	< 1	< 0.01	< 10
357710	5	0.9	0.5	27	49	4	31	38	48	0.30	50	< 10	< 10	< 0.5	< 2	1.48	67	14	10.2	< 10	2	0.02	< 10
357711	10	2.5	0.8	17	54	7	8	302	33	0.11	66	< 10	15	< 0.5	< 2	0.22	28	15	8.40	< 10	2	0.14	< 10
357712	13	2.2	< 0.5	126	51	4	19	20	34	0.29	45	< 10	38	< 0.5	< 2	0.26	2	94	4.26	< 10	< 1	0.13	< 10
357713	6	0.9	1.0	76	127	< 1	91	11	286	1.30	87	< 10	< 10	< 0.5	< 2	0.48	53	19	19.3	< 10	< 1	0.06	< 10
357714	6	2.4	< 0.5	372	459	3	276	9	378	3.43	19	18	11	0.7	< 2	1.96	29	719	10.7	10	1	0.26	< 10
357715	17	1.8	8.4	84	186	3	83	309	534	0.83	51	< 10	10	< 0.5	< 2	0.75	84	96	11.9	< 10	2	0.34	< 10
357716	8	2.4	1.8	535	675	1	139	123	414	5.33	15	15	22	0.6	2	2.35	64	166	9.62	20	< 1	1.18	< 10
357717		12.2	2.6	> 10000	1490	< 1	44	7	138	0.86	< 2	< 10	12	< 0.5	< 2	7.22	48	357	6.77	< 10	< 1	0.08	< 10
357718		43.1	7.0	> 10000	188	< 1	78	4	379	0.03	< 2	< 10	< 10	< 0.5	< 2	0.77	162	3	8.02	< 10	2	< 0.01	< 10
357719		1.8	0.7	1700	169	1	204	9	17	2.07	< 2	< 10	18	< 0.5	< 2	1.84	46	524	9.39	< 10	2	0.27	< 10
357720		8.7	< 0.5	> 10000	455	13	6730	5	62	2.71	10	< 10	13	< 0.5	4	0.82	443	2090	12.9	< 10	3	0.08	< 10
357721		1.1	< 0.5	4120	545	1	1360	4	38	2.80	< 2	< 10	17	< 0.5	< 2	2.49	98	1220	5.48	< 10	< 1	0.17	< 10
357723		9.0	7.0	> 10000	556	< 1	1920	1200	3220	2.52	2	< 10	29	< 0.5	< 2	2.35	126	783	6.74	< 10	< 1	0.16	< 10

Results

Activation Laboratories Ltd.

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
357724		0.7	< 0.5	870	357	2	168	131	84	2.60	< 2	< 10	< 10	< 0.5	< 2	2.31	114	23	10.7	10	1	< 0.01	< 10
357725		1.0	< 0.5	1230	110	2	234	32	43	1.50	< 2	< 10	10	< 0.5	< 2	0.77	38	830	6.18	< 10	< 1	0.32	< 10
357726	7	< 0.2	< 0.5	5	29	< 1	5	3	5	0.01	322	< 10	< 10	< 0.5	< 2	0.02	62	6	23.8	< 10	1	< 0.01	< 10
357727	< 5	0.2	< 0.5	14	707	1	7	2	13	0.08	206	< 10	< 10	< 0.5	< 2	0.57	70	6	24.5	< 10	< 1	0.02	< 10
357728	10	0.2	< 0.5	7	536	< 1	29	4	29	0.12	241	< 10	< 10	< 0.5	5	0.29	29	18	24.6	< 10	< 1	0.01	< 10
357729	13	0.3	< 0.5	8	952	< 1	36	2	24	0.05	257	< 10	< 10	< 0.5	5	0.14	86	2	29.3	< 10	< 1	< 0.01	< 10
357730	16	0.5	< 0.5	7	3670	< 1	62	< 2	35	0.18	6	< 10	< 10	< 0.5	5	0.58	34	4	> 30.0	< 10	< 1	< 0.01	< 10
357731	< 5	0.2	< 0.5	12	4920	< 1	5	< 2	6	0.72	2	< 10	35	< 0.5	< 2	2.14	4	6	13.2	< 10	< 1	0.05	11
357732	< 5	< 0.2	< 0.5	15	1530	< 1	187	< 2	59	1.96	3	< 10	14	< 0.5	< 2	0.53	16	368	8.83	< 10	2	0.09	< 10
357733	< 5	0.4	< 0.5	14	820	< 1	34	< 2	31	0.04	23	< 10	< 10	< 0.5	6	0.05	73	2	29.9	< 10	< 1	< 0.01	< 10
357734	11	0.3	< 0.5	< 1	1230	< 1	11	< 2	8	0.24	< 2	< 10	11	< 0.5	8	0.09	< 1	2	> 30.0	< 10	< 1	< 0.01	< 10
357735	< 5	< 0.2	< 0.5	14	876	1	13	< 2	70	1.33	4	< 10	39	< 0.5	< 2	0.34	6	28	4.34	< 10	< 1	0.22	< 10
357736	< 5	< 0.2	< 0.5	5	1280	1	15	< 2	17	3.07	3	< 10	32	< 0.5	< 2	1.14	8	15	14.1	10	< 1	0.08	13
357737	< 5	< 0.2	< 0.5	12	1390	22	11	< 2	41	3.43	4	< 10	39	< 0.5	< 2	1.12	5	14	12.4	< 10	1	0.08	12
357738	< 5	< 0.2	< 0.5	6	1180	27	15	< 2	26	2.64	9	< 10	14	< 0.5	< 2	1.47	5	20	12.4	< 10	3	0.08	12
357739	< 5	< 0.2	< 0.5	46	1570	1	14	< 2	43	1.66	3	< 10	37	< 0.5	< 2	0.95	14	11	7.97	< 10	3	0.19	< 10
357740	6	0.3	< 0.5	149	824	< 1	31	3	34	0.10	< 2	< 10	< 10	< 0.5	2	0.19	19	5	12.0	< 10	< 1	0.01	< 10
357741	< 5	0.3	< 0.5	31	1890	< 1	17	< 2	15	0.68	< 2	< 10	18	< 0.5	< 2	0.59	11	8	12.2	< 10	2	0.15	16
357742	< 5	< 0.2	< 0.5	3	2290	< 1	5	< 2	20	0.30	5	< 10	19	< 0.5	4	0.37	1	5	21.3	< 10	< 1	0.01	< 10
357743	13	0.8	< 0.5	136	1110	5	52	3	8	0.27	4	< 10	< 10	< 0.5	3	0.22	33	4	18.5	< 10	< 1	< 0.01	< 10
357744		0.3	< 0.5	45	1810	2	17	< 2	31	0.28	3	< 10	< 10	< 0.5	< 2	0.52	11	6	13.4	< 10	3	0.02	< 10
357745	17	0.4	< 0.5	43	4120	2	106	10	96	1.16	83	< 10	< 10	< 0.5	3	0.34	46	18	21.5	< 10	< 1	0.04	< 10
357746	8	0.7	< 0.5	5	9210	< 1	118	< 2	33	0.09	2	< 10	< 10	< 0.5	3	2.18	30	1	> 30.0	< 10	< 1	< 0.01	< 10
357747	< 5	< 0.2	< 0.5	2	350	1	8	< 2	3	0.07	< 2	< 10	< 10	< 0.5	< 2	0.04	7	13	3.86	< 10	< 1	0.03	< 10
357748	< 5	< 0.2	< 0.5	15	1400	1	59	2	16	2.45	< 2	< 10	25	0.8	< 2	1.39	25	25	7.71	< 10	< 1	0.08	16
357749	7	0.2	< 0.5	3	4780	< 1	36	3	33	0.14	5	< 10	< 10	< 0.5	5	0.43	3	31	28.3	< 10	< 1	< 0.01	< 10
357750	< 5	0.6	< 0.5	21	5530	< 1	93	< 2	226	0.52	< 2	< 10	< 10	< 0.5	6	0.12	28	3	> 30.0	< 10	< 1	< 0.01	< 10
357751	< 5	< 0.2	< 0.5	< 1	2100	< 1	15	4	16	0.17	125	< 10	12	< 0.5	5	0.39	40	4	20.7	< 10	< 1	0.02	< 10
357752	16	0.2	< 0.5	< 1	259	< 1	21	3	25	0.44	389	< 10	< 10	< 0.5	7	0.04	32	9	27.4	< 10	1	0.03	< 10
357753	7	< 0.2	< 0.5	< 1	1290	3	16	4	10	0.24	156	< 10	< 10	< 0.5	5	0.04	49	9	24.1	< 10	< 1	0.03	< 10
357754	< 5	< 0.2	< 0.5	6	1120	1	17	2	53	0.18	221	< 10	< 10	< 0.5	5	0.21	44	5	21.8	< 10	< 1	< 0.01	< 10
357755	< 5	< 0.2	< 0.5	17	2110	< 1	39	3	17	0.08	13	< 10	< 10	< 0.5	5	0.02	6	1	> 30.0	< 10	< 1	< 0.01	< 10
357756	< 5	0.2	< 0.5	23	2250	< 1	20	4	22	0.33	69	< 10	< 10	< 0.5	< 2	1.20	29	3	15.3	< 10	< 1	0.06	< 10
357801	14	< 0.2	< 0.5	22	1750	2	13	< 2	38	3.05	2	< 10	< 10	< 0.5	< 2	2.25	6	28	6.05	20	1	0.02	< 10
357802	81	< 0.2	< 0.5	4	1140	3	8	5	11	0.09	21	< 10	< 10	< 0.5	3	0.24	34	27	17.1	< 10	1	< 0.01	< 10
357803	188	< 0.2	< 0.5	7	1540	2	11	5	17	0.10	29	< 10	< 10	< 0.5	2	0.13	11	16	14.6	< 10	< 1	< 0.01	< 10
357804	52	< 0.2	< 0.5	10	1710	3	7	4	16	0.12	15	< 10	< 10	< 0.5	< 2	0.10	3	30	7.73	< 10	< 1	< 0.01	< 10
357805	242	0.5	< 0.5	22	1300	1	28	7	10	0.40	102	< 10	< 10	< 0.5	2	0.20	50	9	24.3	< 10	< 1	0.16	< 10
357806	91	< 0.2	< 0.5	3	1410	3	16	4	5	0.47	76	< 10	< 10	< 0.5	3	0.07	22	22	13.2	< 10	1	0.09	< 10
357807	11	< 0.2	< 0.5	8	454	57	9	2	8	0.11	43	< 10	11	< 0.5	< 2	0.22	2	25	6.22	< 10	1	0.07	10
357808	80	< 0.2	< 0.5	9	517	3	8	7	9	0.16	27	< 10	15	< 0.5	< 2	0.30	3	13	8.64	< 10	1	0.22	30
357809	< 5	< 0.2	< 0.5	35	1150	2	16	4	19	1.02	13	< 10	13	< 0.5	< 2	0.07	20	11	6.13	< 10	< 1	0.28	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
357810		0.4	< 0.5	54	692	2	49	22	75	1.66	336	< 10	< 10	< 0.5	< 2	0.28	12	32	17.1	< 10	< 1	0.17	< 10
357811	7	0.4	0.9	45	1030	2	42	9	250	1.78	373	< 10	25	< 0.5	2	0.33	13	73	15.3	< 10	< 1	0.17	11
357812	< 5	0.3	< 0.5	74	911	< 1	38	< 2	42	0.78	14	< 10	17	< 0.5	< 2	0.15	11	18	15.9	< 10	< 1	0.10	< 10
357813	11	< 0.2	< 0.5	53	968	1	53	5	40	1.11	46	< 10	15	< 0.5	< 2	0.13	40	32	10.5	< 10	< 1	0.11	< 10
357814	5	< 0.2	0.6	47	823	3	42	4	52	0.86	30	< 10	16	< 0.5	< 2	0.11	34	20	12.3	< 10	2	0.09	< 10
357815	< 5	< 0.2	< 0.5	78	1010	3	35	6	33	1.03	73	< 10	13	< 0.5	< 2	0.67	13	104	8.14	< 10	1	0.06	12
357816	< 5	1.5	< 0.5	5210	1580	2	21	19	98	3.00	2	< 10	20	< 0.5	3	1.08	11	31	8.33	10	< 1	0.06	< 10
357817		0.3	1.0	108	2990	1	39	9	336	1.15	378	< 10	20	< 0.5	3	0.32	48	30	18.2	< 10	< 1	0.10	< 10
357818	> 5000	0.8	< 0.5	55	1160	< 1	27	2	32	0.77	> 10000	< 10	37	< 0.5	< 2	5.16	38	6	7.22	< 10	< 1	0.26	< 10
357819		> 100	439	> 10000	580	< 1	12	2780	> 10000	1.27	201	< 10	15	< 0.5	170	0.46	122	8	10.5	< 10	3	0.12	< 10
357820	193	50.3	1.4	> 10000	492	< 1	12	10	304	1.16	48	< 10	29	< 0.5	< 2	0.10	14	14	6.54	< 10	2	0.41	< 10
357821	< 5	1.1	0.7	478	349	< 1	7	9	183	2.51	19	< 10	47	< 0.5	< 2	1.49	3	18	1.78	< 10	< 1	0.22	17
357822	< 5	0.4	0.7	105	5410	< 1	17	< 2	55	2.31	6	< 10	25	< 0.5	< 2	1.39	11	10	11.7	< 10	2	0.11	< 10
357823	< 5	0.6	< 0.5	97	1740	< 1	55	< 2	36	0.11	7	< 10	< 10	< 0.5	5	0.24	16	3	> 30.0	< 10	< 1	< 0.01	< 10
357824	< 5	0.2	< 0.5	28	348	< 1	41	< 2	23	0.12	17	< 10	< 10	< 0.5	7	0.01	5	2	> 30.0	< 10	< 1	< 0.01	< 10
357825	6	0.2	0.7	36	2510	3	19	6	143	2.30	151	< 10	27	< 0.5	< 2	0.20	13	140	11.9	10	< 1	0.09	< 10
357901		< 0.2	< 0.5	102	1380	< 1	150	< 2	47	4.15	2	< 10	39	< 0.5	< 2	0.36	34	183	14.2	10	< 1	0.54	< 10
357902		0.3	< 0.5	196	921	< 1	157	3	74	3.22	8	< 10	18	< 0.5	< 2	0.20	66	170	14.8	< 10	< 1	0.54	< 10
357903	27	< 0.2	< 0.5	111	2480	< 1	35	8	26	0.21	9	< 10	< 10	1.8	< 2	4.12	< 1	14	12.6	< 10	3	0.01	< 10
357904	14	0.3	< 0.5	159	491	< 1	58	33	28	0.39	14	< 10	< 10	< 0.5	< 2	0.13	3	44	16.2	< 10	< 1	0.02	< 10

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA
357681	0.80	0.025	0.015	8.64	3	< 1	10	< 0.01	< 20	< 1	< 2	< 10	9	< 10	3	10				
357682	0.01	0.018	0.002	1.74	3	< 1	1	< 0.01	< 20	< 1	< 2	< 10	2	< 10	1	5				
357683	0.46	0.064	0.017	0.28	< 2	6	10	0.02	< 20	2	< 2	< 10	64	< 10	12	50				
357684	1.78	0.341	0.027	0.46	2	25	5	0.22	< 20	4	< 2	< 10	262	< 10	17	9				
357685	0.76	0.035	0.019	2.67	< 2	31	13	0.34	< 20	5	< 2	< 10	285	< 10	6	32				
357686	0.67	0.033	0.019	3.33	4	23	10	0.30	< 20	5	< 2	< 10	249	< 10	7	32				
357687	0.47	0.026	0.013	3.25	5	30	4	0.24	< 20	2	< 2	< 10	376	< 10	8	17				
357688	1.33	0.085	0.017	5.40	4	13	12	0.15	< 20	< 1	< 2	< 10	216	< 10	5	26				
357689	0.29	0.034	0.029	1.39	2	< 1	1	< 0.01	< 20	< 1	< 2	< 10	8	< 10	3	4				
357690	0.09	0.016	0.020	0.18	3	< 1	2	< 0.01	< 20	< 1	< 2	< 10	3	< 10	1	3				
357691	0.47	0.018	0.054	0.47	7	< 1	9	< 0.01	< 20	< 1	< 2	< 10	9	< 10	1	5				
357692	0.58	0.017	0.013	17.7	10	< 1	< 1	0.03	< 20	< 1	< 2	< 10	19	< 10	3	16				
357693	0.24	0.024	0.003	3.53	4	< 1	< 1	0.01	< 20	< 1	< 2	< 10	12	< 10	2	6				
357694	0.71	0.044	0.009	12.9	9	13	6	0.16	< 20	< 1	< 2	< 10	196	< 10	5	25				
357695	0.81	0.049	0.010	3.15	4	14	7	0.20	< 20	< 1	< 2	< 10	283	< 10	5	22				
357696	0.36	0.026	0.008	1.85	5	23	4	0.21	< 20	< 1	< 2	< 10	355	< 10	8	12				
357697	0.53	0.022	0.008	> 20.0	7	< 1	2	0.03	< 20	1	< 2	< 10	14	< 10	1	7				
357698	0.23	0.020	0.010	12.5	10	2	3	0.06	< 20	< 1	< 2	< 10	29	90	4	10				
357699	0.06	0.016	0.004	17.6	10	< 1	< 1	< 0.01	< 20	5	3	< 10	6	< 10	< 1	8				
357700	0.53	0.094	0.021	12.2	7	4	2	0.05	< 20	2	3	< 10	36	< 10	3	7	5610	< 5	< 5	
357701	0.04	0.013	0.029	10.9	7	< 1	< 1	< 0.01	< 20	5	3	< 10	11	< 10	< 1	7	1560	< 5	< 5	
357702	0.05	0.014	0.027	> 20.0	12	3	14	0.41	< 20	1	< 2	< 10	52	< 10	3	14				
357703	0.04	0.021	0.003	2.93	3	6	14	0.21	< 20	< 1	< 2	< 10	43	< 10	1	5				
357704	0.01	0.028	0.003	> 20.0	10	< 1	2	0.05	< 20	2	< 2	< 10	9	< 10	< 1	8				
357705	0.06	0.024	0.018	> 20.0	8	2	8	0.09	< 20	< 1	< 2	< 10	19	< 10	5	26				
357706	0.01	0.017	0.003	> 20.0	8	< 1	5	0.04	< 20	2	< 2	< 10	8	< 10	1	9				
357707	0.03	0.018	0.007	> 20.0	4	< 1	8	0.05	< 20	< 1	< 2	< 10	10	< 10	2	11				
357708	0.01	0.016	0.004	> 20.0	6	< 1	12	0.12	< 20	< 1	< 2	< 10	11	< 10	1	13				
357709	0.09	0.017	0.031	3.04	12	8	38	0.39	< 20	2	< 2	< 10	92	< 10	8	7				
357710	< 0.01	0.016	0.002	14.2	4	< 1	12	0.05	< 20	< 1	< 2	< 10	6	< 10	2	11				
357711	0.16	0.027	0.005	4.74	4	< 1	2	0.19	< 20	2	< 2	< 10	16	< 10	< 1	17				
357712	0.03	0.023	0.007	1.26	3	3	4	0.20	< 20	2	< 2	< 10	55	< 10	1	12				
357713	0.12	0.065	0.021	> 20.0	8	2	8	0.09	< 20	4	< 2	< 10	23	< 10	4	25				
357714	0.58	0.057	0.023	8.62	5	11	30	0.20	< 20	< 1	< 2	< 10	70	< 10	9	17				
357715	0.25	0.027	0.023	14.1	4	3	23	0.17	< 20	2	< 2	< 10	23	< 10	6	22				
357716	1.85	0.245	0.029	6.49	5	11	33	0.36	< 20	< 1	< 2	< 10	227	< 10	11	6				
357717	0.83	0.120	0.012	1.16	6	5	28	0.03	< 20	< 1	< 2	< 10	49	< 10	6	5	394	< 5	< 5	
357718	0.25	0.018	0.013	6.70	3	< 1	2	< 0.01	< 20	< 1	< 2	< 10	2	< 10	1	2	3880	< 5	< 5	
357719	0.54	0.067	0.081	6.11	6	8	18	0.05	< 20	7	< 2	< 10	51	< 10	5	4	20	74	37	
357720	2.83	0.129	0.013	7.34	12	3	5	0.07	< 20	17	< 2	< 10	62	< 10	2	5	224	3640	481	
357721	2.74	0.332	0.013	1.53	6	9	8	0.11	< 20	2	< 2	< 10	70	< 10	4	4	48	608	131	

Results

Activation Laboratories Ltd.

Report: A18-09492

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA
357723	2.65	0.236	0.012	2.82	5	10	12	0.06	< 20	2	< 2	< 10	59	< 10	3	4	69	1480	335	
357724	0.62	0.024	0.022	6.91	5	2	147	0.16	< 20	< 1	< 2	< 10	48	< 10	4	11	2	8	< 5	
357725	0.50	0.054	0.012	5.02	4	8	6	0.13	< 20	4	< 2	< 10	58	< 10	7	5	4	83	34	
357726	< 0.01	0.013	< 0.001	> 20.0	10	< 1	< 1	< 0.01	< 20	< 1	2	< 10	4	< 10	< 1	6				
357727	0.13	0.014	0.003	> 20.0	10	< 1	6	< 0.01	< 20	< 1	< 2	< 10	7	< 10	< 1	7				
357728	0.20	0.019	0.002	> 20.0	11	< 1	4	< 0.01	< 20	< 1	< 2	< 10	7	< 10	< 1	7				
357729	0.11	0.014	0.002	> 20.0	10	< 1	1	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	7				
357730	0.46	0.016	0.005	11.6	11	< 1	6	< 0.01	< 20	< 1	< 2	< 10	7	< 10	2	11				
357731	0.08	0.021	0.025	0.35	5	< 1	21	0.05	< 20	< 1	< 2	< 10	30	< 10	11	15				
357732	2.65	0.049	0.039	5.41	4	4	6	0.02	< 20	< 1	< 2	< 10	35	< 10	3	23				
357733	0.03	0.014	0.002	> 20.0	12	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	7				
357734	0.27	0.014	0.007	1.98	9	< 1	2	< 0.01	< 20	< 1	< 2	< 10	10	< 10	3	10				
357735	0.41	0.097	0.049	0.73	< 2	6	6	0.13	< 20	1	< 2	< 10	55	< 10	5	39				
357736	1.10	0.107	0.039	0.73	4	4	31	0.09	< 20	< 1	< 2	< 10	43	< 10	7	17				
357737	0.92	0.083	0.038	2.56	3	4	32	0.09	< 20	< 1	< 2	< 10	33	< 10	8	13				
357738	0.80	0.118	0.038	2.64	3	4	75	0.08	< 20	< 1	< 2	< 10	39	< 10	9	24				
357739	0.77	0.156	0.026	2.17	2	6	12	0.19	< 20	< 1	< 2	< 10	68	< 10	8	6				
357740	0.10	0.023	0.013	8.38	5	< 1	2	< 0.01	< 20	2	< 2	< 10	4	< 10	2	4				
357741	0.21	0.084	0.027	4.69	5	2	5	0.07	< 20	2	< 2	< 10	12	< 10	9	10				
357742	0.19	0.038	0.006	1.21	8	< 1	12	0.02	< 20	< 1	< 2	< 10	11	< 10	5	7				
357743	0.12	0.023	0.014	18.5	7	< 1	2	< 0.01	< 20	< 1	< 2	< 10	5	< 10	2	7				
357744	0.27	0.052	0.011	6.66	3	< 1	6	0.02	< 20	< 1	< 2	< 10	12	< 10	6	5	14	< 5	< 5	
357745	0.79	0.022	0.014	15.2	11	3	4	0.04	< 20	< 1	< 2	< 10	21	< 10	3	20				
357746	1.37	0.015	0.002	11.4	10	3	26	< 0.01	< 20	< 1	< 2	< 10	12	< 10	6	9				
357747	0.17	0.017	0.002	1.83	< 2	< 1	2	< 0.01	< 20	< 1	< 2	< 10	2	< 10	< 1	2				
357748	0.58	0.204	0.101	1.89	2	4	71	0.07	< 20	< 1	< 2	< 10	33	501	12	14				
357749	0.12	0.013	0.006	12.7	10	< 1	2	< 0.01	< 20	< 1	< 2	< 10	20	< 10	7	9				
357750	0.56	0.012	0.005	12.3	12	< 1	3	0.02	< 20	< 1	< 2	< 10	10	< 10	2	17				
357751	0.29	0.017	0.003	> 20.0	6	< 1	5	< 0.01	< 20	< 1	< 2	< 10	5	< 10	1	9				
357752	0.35	0.022	0.007	> 20.0	11	< 1	4	< 0.01	< 20	< 1	4	< 10	9	< 10	< 1	15				
357753	0.16	0.014	0.004	18.9	10	< 1	2	< 0.01	< 20	< 1	< 2	< 10	9	< 10	1	9				
357754	0.13	0.014	0.003	> 20.0	8	< 1	3	< 0.01	< 20	< 1	< 2	< 10	7	< 10	< 1	8				
357755	0.07	0.014	0.003	> 20.0	11	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	6	< 10	< 1	8				
357756	0.40	0.025	0.009	14.4	7	1	13	0.01	< 20	< 1	< 2	< 10	10	< 10	2	11				
357801	0.69	0.017	0.023	0.67	2	2	530	0.08	< 20	< 1	< 2	< 10	41	< 10	3	13				
357802	0.06	0.015	0.004	13.2	7	< 1	9	< 0.01	< 20	< 1	< 2	< 10	8	28	2	6				
357803	0.05	0.014	0.003	13.1	5	< 1	5	< 0.01	< 20	< 1	< 2	< 10	6	103	3	5				
357804	0.05	0.015	0.003	5.23	3	< 1	4	< 0.01	< 20	< 1	< 2	< 10	5	14	3	4				
357805	0.35	0.026	0.005	> 20.0	10	< 1	3	0.01	< 20	< 1	< 2	< 10	10	< 10	2	8				
357806	0.24	0.019	0.005	13.2	4	< 1	2	0.02	< 20	< 1	< 2	< 10	9	< 10	3	8				
357807	0.25	0.026	0.022	1.54	2	< 1	8	0.01	< 20	< 1	< 2	< 10	19	< 10	2	9				
357808	0.33	0.030	0.022	3.49	3	< 1	9	0.01	< 20	< 1	< 2	< 10	21	< 10	4	7				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA
357809	0.50	0.077	0.028	4.49	< 2	2	8	0.04	< 20	1	< 2	< 10	13	< 10	4	26				
357810	1.15	0.044	0.021	13.8	8	3	8	0.02	< 20	< 1	< 2	< 10	28	< 10	5	37	14	< 5	< 5	
357811	1.03	0.045	0.043	5.46	7	4	8	0.11	< 20	< 1	< 2	< 10	35	< 10	5	36				
357812	0.53	0.066	0.021	6.95	5	3	3	0.08	< 20	< 1	< 2	< 10	29	< 10	4	23				
357813	0.79	0.063	0.021	8.86	3	4	4	0.08	< 20	< 1	< 2	< 10	27	< 10	4	28				
357814	0.66	0.048	0.018	8.83	7	4	3	0.05	< 20	1	< 2	< 10	29	< 10	4	22				
357815	1.07	0.074	0.064	4.48	4	5	7	0.13	< 20	< 1	< 2	< 10	58	< 10	5	17				
357816	1.10	0.025	0.019	1.83	3	2	138	0.07	< 20	< 1	< 2	< 10	59	< 10	3	11				
357817	1.07	0.037	0.020	15.5	7	2	8	< 0.01	< 20	2	< 2	< 10	18	< 10	3	30	6	< 5	< 5	
357818	1.70	0.091	0.031	2.36	8	10	69	< 0.01	< 20	1	< 2	< 10	33	< 10	3	10				8.55
357819	0.55	0.035	0.025	10.7	6	1	6	0.02	< 20	5	< 2	< 10	13	11	1	7	451	< 5	< 5	
357820	0.46	0.045	0.034	4.43	2	2	4	0.08	< 20	2	< 2	< 10	17	< 10	2	29				
357821	0.78	0.331	0.044	0.26	< 2	3	59	0.07	< 20	< 1	< 2	< 10	26	< 10	5	24				
357822	0.44	0.057	0.031	3.30	3	2	6	0.07	< 20	< 1	< 2	< 10	20	< 10	5	8				
357823	0.13	0.013	0.004	15.3	8	< 1	2	< 0.01	< 20	< 1	< 2	< 10	8	< 10	1	9				
357824	0.05	0.011	0.004	19.6	9	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	8	< 10	1	8				
357825	1.57	0.064	0.035	3.78	7	8	17	0.15	< 20	< 1	< 2	< 10	63	< 10	4	46				
357901	1.72	0.073	0.020	2.19	6	27	7	0.21	< 20	< 1	< 2	< 10	299	< 10	6	20	5	11	8	
357902	1.05	0.056	0.014	6.08	5	16	8	0.20	< 20	< 1	< 2	< 10	237	< 10	5	26	9	13	12	
357903	1.55	0.018	0.034	5.29	5	< 1	22	< 0.01	< 20	< 1	< 2	< 10	6	< 10	7	7				
357904	0.21	0.016	0.021	13.3	7	3	2	< 0.01	< 20	< 1	< 2	< 10	17	< 10	3	7				

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PK2 Meas																							
PK2 Cert																							
PK2 Meas																							
PK2 Cert																							
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6200	421	2	34	8	25	2.04	89		74	7.4	< 2	0.05	89	27	6.31	< 10		0.93	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6080	420	3	33	8	24	1.86	86		72	7.2	< 2	0.05	86	25	6.15	< 10		0.85	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6250	430	2	34	8	25	1.91	91		75	7.4	3	0.05	92	26	6.32	< 10		0.87	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 922 (AQUA REGIA) Meas		0.8	< 0.5	2230	729	< 1	34	57	263	2.94	5		80	0.8	6	0.44	19	49	5.17	< 10		0.49	39
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2250	725	< 1	33	57	260	2.89	5		79	0.8	5	0.43	20	47	5.28	< 10		0.47	40
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		1.1	< 0.5	2250	735	< 1	34	62	264	2.90	6		79	0.8	5	0.43	19	49	5.32	< 10		0.47	39
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.6	< 0.5	4250	813	< 1	33	74	335	2.92	5		67	0.7	20	0.44	21	45	5.82	< 10		0.42	36
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.7	0.6	4270	797	< 1	31	72	324	2.80	7		63	0.7	17	0.41	20	42	5.75	< 10		0.39	36
OREAS 923 (AQUA REGIA)		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																							
OREAS 923 (AQUA REGIA) Meas		1.5	< 0.5	4460	825	< 1	31	81	339	2.89	9		62	0.7	14	0.43	21	44	5.92	< 10		0.39	36
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 216 (Fire Assay) Meas																							
OREAS 216 (Fire Assay) Cert																							
OREAS 229 (Fire Assay) Meas																							
OREAS 229 (Fire Assay) Cert																							
OREAS 217 (Fire Assay) Meas	328																						
OREAS 217 (Fire Assay) Cert	338																						
OREAS 217 (Fire Assay) Meas	335																						
OREAS 217 (Fire Assay) Cert	338																						
OREAS 217 (Fire Assay) Meas	330																						
OREAS 217 (Fire Assay) Cert	338																						
Oreas 621 (Aqua Regia) Meas		64.7	287	3580	497	14	29	> 5000	> 10000	1.79	70			0.6	< 2	1.64	29	35	3.34	10	3	0.37	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		65.2	280	3510	503	13	24	> 5000	> 10000	1.70	73			0.6	2	1.67	28	30	3.32	10	4	0.35	19
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		66.0	286	3580	504	13	24	> 5000	> 10000	1.75	73			0.6	5	1.68	29	30	3.35	10	4	0.35	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
OREAS 215 (Fire Assay) Meas	3580																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3530																						
OREAS 215 (Fire Assay) Cert	3540																						
OREAS 215 (Fire Assay) Meas	3510																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Assay) Meas																							
OREAS 215 (Fire Assay) Cert	3540																						
357690 Orig	< 5																						
357690 Dup	< 5																						
357702 Orig	10																						
357702 Dup	16																						
357705 Orig		0.9	1.2	62	45	2	77	24	193	0.57	76	< 10	< 10	< 0.5	< 2	0.45	60	20	18.2	< 10	1	0.08	< 10
357705 Dup		0.9	1.0	61	46	4	82	28	189	0.58	75	< 10	< 10	< 0.5	< 2	0.46	62	20	18.2	< 10	< 1	0.08	< 10
357710 Orig		0.9	0.5	28	49	4	31	39	47	0.30	50	< 10	< 10	< 0.5	< 2	1.49	68	14	10.3	< 10	3	0.03	< 10
357710 Dup		0.9	0.6	27	48	3	31	38	48	0.29	50	< 10	< 10	< 0.5	< 2	1.46	67	15	10.2	< 10	2	0.02	< 10
357712 Orig	14																						
357712 Dup	12																						
357728 Orig		0.3	< 0.5	9	536	< 1	27	4	28	0.12	235	< 10	< 10	< 0.5	5	0.29	26	18	23.1	< 10	< 1	0.01	< 10
357728 Dup		0.2	< 0.5	5	536	< 1	31	3	30	0.12	248	< 10	< 10	< 0.5	5	0.29	31	18	26.1	< 10	2	0.01	< 10
357731 Orig	< 5	0.2	< 0.5	12	4920	< 1	5	< 2	6	0.72	2	< 10	35	< 0.5	< 2	2.14	4	6	13.2	< 10	< 1	0.05	11
357731 Split PREP DUP	< 5	0.3	< 0.5	13	4940	< 1	9	3	5	0.73	< 2	< 10	36	< 0.5	< 2	2.18	4	6	13.1	< 10	2	0.05	11
357735 Orig	< 5																						
357735 Dup	< 5																						
357741 Orig		0.3	< 0.5	30	1900	< 1	19	< 2	15	0.68	< 2	< 10	17	< 0.5	< 2	0.59	11	8	12.2	< 10	1	0.15	15
357741 Dup		0.3	< 0.5	31	1880	< 1	14	< 2	16	0.68	< 2	< 10	19	< 0.5	< 2	0.59	11	8	12.1	< 10	2	0.16	16
357744 Orig																							
357744 Dup																							
357746 Orig	7																						
357746 Dup	8																						
357756 Orig	< 5																						
357756 Dup	< 5																						
357813 Orig		< 0.2	< 0.5	53	968	2	52	4	39	1.11	46	< 10	15	< 0.5	< 2	0.13	41	33	10.4	< 10	2	0.11	< 10
357813 Dup		< 0.2	< 0.5	53	969	1	54	6	40	1.12	47	< 10	15	< 0.5	< 2	0.13	39	30	10.5	< 10	< 1	0.11	< 10
357816 Orig	< 5																						
357816 Dup	< 5																						
357818 Orig																							
357818 Dup																							
357825 Orig	6	0.2	0.7	36	2510	3	19	6	143	2.30	151	< 10	27	< 0.5	< 2	0.20	13	140	11.9	10	< 1	0.09	< 10
357825 Split PREP DUP	5	0.2	0.6	35	2570	3	19	6	136	2.27	150	< 10	25	< 0.5	< 2	0.20	13	136	12.2	10	3	0.09	< 10
357825 Orig		0.2	0.6	37	2520	3	19	5	147	2.31	152	< 10	26	< 0.5	< 2	0.20	13	140	12.0	10	< 1	0.09	< 10
357825 Dup		0.2	0.9	34	2510	3	20	8	140	2.29	149	< 10	27	< 0.5	< 2	0.20	12	139	11.8	10	< 1	0.09	< 10
357904 Orig	13																						
357904 Dup	14																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	5	7	< 1	< 1	< 2	5	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA
PK2 Meas																	5080	5950	5000	
PK2 Cert																	4790	5918.0 00	4749.0 00	
PK2 Meas																	4860	5790	4740	
PK2 Cert																	4790	5918.0 00	4749.0 00	
OREAS 904 (Aqua Regia) Meas	0.22		0.098	0.04	3	5	19	< 20			< 2	< 10	34		19					
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2					
OREAS 904 (Aqua Regia) Meas	0.21		0.096	0.04	4	5	18	< 20			< 2	< 10	33		19					
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2					
OREAS 904 (Aqua Regia) Meas	0.21		0.099	0.05	4	5	19	< 20			< 2	< 10	34		19					
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5	7.56			0.150	5.20	21.7		17.2					
OREAS 922 (AQUA REGIA) Meas	1.37	0.035	0.063	0.36	3	4	16	< 20			< 2	< 10	38	< 10	22	17				
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0	14.5			0.14	1.98	29.4	1.12	16.0	22.3				
OREAS 922 (AQUA REGIA) Meas	1.37	0.033	0.064	0.37	< 2	4	16	< 20			< 2	< 10	38	< 10	22	32				
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0	14.5			0.14	1.98	29.4	1.12	16.0	22.3				
OREAS 922 (AQUA REGIA) Meas	1.37	0.035	0.065	0.38	3	4	16	< 20			< 2	< 10	38	< 10	22	33				
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0	14.5			0.14	1.98	29.4	1.12	16.0	22.3				
OREAS 923 (AQUA REGIA) Meas	1.45		0.060	0.67	3	4	14	< 20			< 2	< 10	37	< 10	20	28				
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6	14.3			0.12	1.80	30.6	1.96	14.3	22.5				
OREAS 923 (AQUA REGIA) Meas	1.43		0.060	0.65	3	4	14	< 20			< 2	< 10	35	< 10	19	36				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5				
OREAS 923 (AQUA REGIA) Meas	1.46		0.061	0.68	3	4	14		< 20		< 2	< 10	36	< 10	20	33				
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5				
OREAS 216 (Fire Assay) Meas																				6.58
OREAS 216 (Fire Assay) Cert																				6.66
OREAS 229 (Fire Assay) Meas																				12.0
OREAS 229 (Fire Assay) Cert																				12.1
OREAS 217 (Fire Assay) Meas																				
OREAS 217 (Fire Assay) Cert																				
OREAS 217 (Fire Assay) Meas																				
OREAS 217 (Fire Assay) Cert																				
OREAS 217 (Fire Assay) Meas																				
OREAS 217 (Fire Assay) Cert																				
Oreas 621 (Aqua Regia) Meas	0.45	0.191	0.033	4.45	119	3	18		< 20		< 2	< 10	13	< 10	8	73				
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0				
Oreas 621 (Aqua Regia) Meas	0.45	0.174	0.034	4.47	123	2	17		< 20		< 2	< 10	13	< 10	8	65				
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0				
Oreas 621 (Aqua Regia) Meas	0.45	0.181	0.034	4.53	125	2	18		< 20		< 2	< 10	13	< 10	8	66				
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0				
OREAS 215 (Fire Assay) Meas																				
OREAS 215 (Fire Assay) Cert																				
OREAS 215 (Fire Assay) Meas																				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA
OREAS 215 (Fire Assay) Cert																				
OREAS 215 (Fire Assay) Meas																				
OREAS 215 (Fire Assay) Cert																				
357690 Orig																				
357690 Dup																				
357702 Orig																				
357702 Dup																				
357705 Orig	0.06	0.023	0.018	> 20.0	8	2	8	0.09	< 20	< 1	< 2	< 10	19	< 10	5	25				
357705 Dup	0.06	0.025	0.018	> 20.0	8	2	8	0.10	< 20	< 1	< 2	< 10	19	< 10	5	26				
357710 Orig	< 0.01	0.015	0.002	14.1	5	< 1	12	0.05	< 20	< 1	< 2	< 10	6	< 10	2	11				
357710 Dup	< 0.01	0.017	0.002	14.3	3	< 1	12	0.05	< 20	< 1	< 2	< 10	6	< 10	2	11				
357712 Orig																				
357712 Dup																				
357728 Orig	0.20	0.019	0.002	> 20.0	11	< 1	4	< 0.01	< 20	< 1	< 2	< 10	7	< 10	< 1	7				
357728 Dup	0.20	0.019	0.002	> 20.0	11	< 1	4	< 0.01	< 20	< 1	< 2	< 10	6	< 10	< 1	7				
357731 Orig	0.08	0.021	0.025	0.35	5	< 1	21	0.05	< 20	< 1	< 2	< 10	30	< 10	11	15				
357731 Split PREP DUP	0.08	0.021	0.025	0.42	5	< 1	22	0.05	< 20	3	< 2	< 10	30	< 10	11	15				
357735 Orig																				
357735 Dup																				
357741 Orig	0.21	0.083	0.026	5.05	5	2	5	0.07	< 20	1	< 2	< 10	13	< 10	9	11				
357741 Dup	0.22	0.085	0.027	4.34	6	2	5	0.07	< 20	3	< 2	< 10	12	< 10	9	10				
357744 Orig																	14	< 5	< 5	
357744 Dup																	14	< 5	< 5	
357746 Orig																				
357746 Dup																				
357756 Orig																				
357756 Dup																				
357813 Orig	0.79	0.064	0.021	8.97	3	4	4	0.08	< 20	< 1	< 2	< 10	27	< 10	4	28				
357813 Dup	0.79	0.063	0.021	8.75	3	4	4	0.08	< 20	< 1	< 2	< 10	27	< 10	4	28				
357816 Orig																				
357816 Dup																				
357818 Orig																				8.53
357818 Dup																				8.56
357825 Orig	1.57	0.064	0.035	3.78	7	8	17	0.15	< 20	< 1	< 2	< 10	63	< 10	4	46				
357825 Split PREP DUP	1.54	0.065	0.034	3.79	6	8	16	0.15	< 20	< 1	< 2	< 10	63	< 10	4	46				
357825 Orig	1.58	0.064	0.035	3.79	7	8	16	0.15	< 20	< 1	< 2	< 10	63	< 10	4	46				
357825 Dup	1.56	0.064	0.034	3.77	7	8	17	0.15	< 20	< 1	< 2	< 10	63	< 10	4	45				
357904 Orig																				

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Au	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	g/tonne	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5	0.03	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-ICP	FA-ICP	FA-ICP	FA- GRA	
357904 Dup																					
Method Blank																					
Method Blank																					
Method Blank																					
Method Blank																					
Method Blank																					
Method Blank																		< 2	< 5	< 5	
Method Blank	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	0.016	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1					
Method Blank																					< 0.03



Date Submitted: 20-Jul-18
Invoice No.: A18-09492 (i)
Invoice Date: 10-Sep-18
Your Reference: Noronex-Geraldton

Stares Contracting
684 Squier St.
Thunder Bay ON P7B 4A8
Canada

ATTN: Mick Stares

CERTIFICATE OF ANALYSIS

104 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1C-OES-Tbay Fire Assay ICPOES (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A18-09492 (i)**

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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:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva". The signature is written in a cursive style and is positioned above a horizontal line.

Elitsa Hrischeva, Ph.D.
Quality Control

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Analyte Symbol	Ag	Cu	Zn
Unit Symbol	ppm	%	%
Lower Limit	3	0.001	0.001
Method Code	ICP-OES	ICP-OES	ICP-OES
357683			
357685			
357687			
357700		5.08	
357701	145	12.4	
357717		1.11	
357718		4.23	
357720		2.29	
357723		1.05	
357819	286	6.65	11.8
357820		5.72	

Analyte Symbol	Ag	Cu	Zn
Unit Symbol	ppm	%	%
Lower Limit	3	0.001	0.001
Method Code	ICP-OES	ICP-OES	ICP-OES
CZN-3 Meas	43	0.685	51.1
CZN-3 Cert	45	0.685	50.9
MP-1b Meas	50	3.10	16.9
MP-1b Cert	47	3.07	16.7
CCU-1d Meas	121	23.9	2.55
CCU-1d Cert	120.7	23.93	2.63
CPB-2 Meas		0.127	6.20
CPB-2 Cert		0.1213	6.04
PTC-1b Meas	50	7.86	0.219
PTC-1b Cert	53	7.97	0.2083
Method Blank	< 3	< 0.001	0.001

Appendix V
Assay Lab Methods – Brochure

Sample Preparation Packages

To obtain meaningful analytical results, it is imperative that sample collection and preparation be done properly. Actlabs can advise on sampling protocol for your field program if requested. Once the samples arrive in the laboratory, Actlabs will ensure that they are prepared properly. As a routine practice with rock and core, the entire sample is crushed to a nominal -2 mm, mechanically split to obtain a representative sample and then pulverized to at least 95% -105 microns (μm). All of our steel mills are now mild steel and do not introduce Cr or Ni contamination. Quality of crushing and pulverization is routinely checked as part of our quality assurance program. Samples submitted in an unorganized fashion will be subject to a sorting surcharge and may substantially slow turnaround time. Providing an accurate detailed sample list by e-mail will also aid in improving turnaround time and for Quality Control purposes.

Rock, Core and Drill Cuttings

Code RX1	Crush (< 7 kg) up to 80% passing 2 mm, riffle split (250 g) and pulverize (mild steel) to 95% passing 105 μm included cleaner sand	\$11.50
Code RX1-ORE	Crush up to 90% passing 2 mm	add \$2.10
Code RX1+500	500 grams pulverized	add \$1.25
Code RX1+800	800 grams pulverized	add \$2.25
Code RX1+1000	1000 grams pulverized	add \$2.75
Code RX1-SD	Crush (< 7 kg) up to 80% passing 2 mm, rotary split (250 g) and pulverized (mild steel) to 95% passing 105 μm	\$10.75
Code RX1-SD-ORE	Crush up to 90% passing 2 mm	add \$2.10
Code RX3	Oversize charge per kilogram for crushing	\$1.25
Code RX4	Pulverization only (mild steel) (coarse pulp or crushed rock) (< 800 g)	\$7.25
Code RX5	Pulverize ceramic (100 g)	\$18.75
Code RX6	Hand pulverize small samples (agate mortar & pestle) (<5g)	\$18.75
Code RX7	Crush and split (< 5 kg)	\$5.50
Code RX8	Sample prep only surcharge, no analyses	\$4.75
Code RX9	Compositing (per composite) dry weight	\$2.75
Code RX10	Weight (kg) as received	\$2.25
Code RX11	Checking quality of pulps or rejects prepared by other labs and issuing report	\$10.00
Code RX12	Ball Mill preparation	on request
Code RX13	Rod Mill preparation	on request
Code RX14	Core cutting	on request
Code RX15	Special Preparation/Hour	\$68.25
Code RX16	Specific Gravity on Core	\$17.00
Code RX16-W	Specific Gravity (WAX) on friable samples	\$22.75
Code RX17	Specific Gravity on the pulp	\$17.00
Code RX17-GP	Specific Gravity on the pulp by gas pycnometer	\$22.75

Note: Larger sample sizes than listed above can be pulverized at additional cost.

Soils, Stream and Lake Bottom Sediments, and Heavy Minerals

Code S1	Drying (60°C) and sieving (-177 μm) save all portions	\$4.25
Code S1 DIS	Drying (60°C) and sieving (-177 μm), discard oversize	\$3.75
Code S1-230	Drying (60°C) and sieving (-63 μm), save oversize	\$5.75
Code S1-230 DIS	Drying (60°C) and sieving (-63 μm), discard oversize	\$5.50
Code S2	Lake bottom sediment preparation crush & sieve (-177 μm)	\$9.00
Code S3	Alternate size fractions and bracket sieving, add	\$2.75
Code S4	Selective Extractions or SGH drying (40°C) & sieving (-177 μm)	\$4.75
Code S5	Wet or damp samples submitted in plastic bags, add	\$2.10
Code S6	Separating -2 micron material	\$28.25
Code S7mi	Methylene iodide heavy mineral separation specific gravity can be customized (100 grams)	\$73.75
Code S7w	Sodium polytungstate heavy mineral separation specific gravity can be customized (100 grams)	\$73.75
Code S8	Sieve analysis (4 sieve sizes) coarser than 53 μm	\$40.00
Code S9	Particle size analysis (laser)	\$102.00

Our Sample Preparation pricing is all-inclusive including: sorting, drying, labeling, new reject bags, using cleaner sand between each sample and crushing samples up to 7 kg (for RX1 and RX1-SD).



Riffle Splitting



Sample Pulverizers

Gold and Silver Analyses

Gold and Silver Analyses - Geochem

Code	Method	Sample Weight (g)	Metric Range	Price
1A1	Au Fire Assay - INAA	30	1 - 20,000 ppb	\$20.50
1A2 *	Au Fire Assay - AA	30	5 - 5,000 ppb	\$17.00
1A2-50 *	Au Fire Assay - AA	50	5 - 5,000 ppb	\$19.50
1A2-ICP	Au Fire Assay - ICP-OES	30	2 - 30,000 ppb	\$18.00
1A2-ICP-50	Au Fire Assay - ICP-OES	50	2 - 30,000 ppb	\$20.25
1A2-ICPMS	Au Fire Assay - ICP-MS	30	0.5 - 30,000 ppb	\$26.25
1A6	Au BLEG - ICP-MS	1,000	0.1 - 10,000 ppb	\$45.50
1A8	Au Aqua Regia - ICP-MS	30	0.2 - 2,000 ppb	\$18.00
1E-Ag	Ag Aqua Regia - ICP-OES	0.5	0.2 - 100 ppm	\$6.75



Gold and Silver Analyses - Assay

Code	Method	Sample Weight (g)	Metric Range	Price
1A3-30	Au Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT	\$22.75
1A3-50	Au Fire Assay - Gravimetric	50	0.02 - 10,000 g/mT	\$24.00
1A3-Ag (Au,Ag)	Au, Ag Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT (Au) 3 - 10,000 g/mT (Ag)	\$26.25
1A4 **	Au Fire Assay - Metallic Screen	500	0.03 g/mT	\$79.50
1A4-1000 **	Au Fire Assay - Metallic Screen	1,000	0.03 g/mT	\$90.75
8-Ag	Ag Fire Assay - Gravimetric	30	3 - 10,000 g/mT	\$24.25

When submitting samples for Au and Ag analysis, or Au, Pt Pd and Rh analysis, please try to ensure you send two-times the listed weight.

Gold, Platinum, Palladium and Rhodium

Code	Method	Sample Weight (g)	Range (ppb)				Price
			Au	Pt	Pd	Rh	
1C-Exploration	Fire Assay - ICP-MS	30	2 - 30,000	1 - 30,000	1 - 30,000	\$22.75	
1C-EXP 2	Fire Assay - ICP-MS	30	1 - 30,000	0.5 - 30,000	0.5 - 30,000	\$25.00	
1C-research	Fire Assay - ICP-MS	30	1 - 30,000	0.1 - 30,000	0.1 - 30,000	\$36.25	
1C-Rhodium	Fire Assay - ICP-MS	30	-	-	-	5 - 10,000	\$34.25
1C-OES	Fire Assay - ICP-OES	30	2 - 30,000	5 - 30,000	5 - 30,000	\$19.50	
8 Au Pt Pd	Fire Assay - ICP-OES	30	0.001 - 1000 g/mT	0.001 - 1000 g/mT	0.001 - 1000 g/mT	\$51.25	

Platinum Group Elements

Code	Method	Sample Weight (g)	Range (ppb)								Price
			Os	Ir	Ru	Rh	Pt	Pd	Au	Re	
1B1	NiS Fire Assay - INAA	25	2	0.1	5	0.2	5 [†]	2	0.5	5	1-2 samples \$363.25 3+ samples \$181.75
1B2	NiS Fire Assay - ICP-MS	50	-	1	1	1	1	1	1	1	1-2 samples \$363.25 3+ samples \$181.75

Organic Sample Surcharge - \$1.25/sample for Fire Assay packages

Notes:

Use of 50 gram sample for fire assay may not provide optimum recovery.

For proper fire assay fusion, Actlabs may reduce the sample weights to 15 g or smaller at its discretion.

* Detection limit can be extended to 10,000 ppb if required. Please specify when required.

** A representative 500 gram or 1000 gram (or customized) sample split is sieved at 150 µm, with assays performed on the entire +150 µm fraction and two splits of the -150 µm fraction. It is important not to overpulverize the sample too finely, as tests have shown gold will plate out on the mill and be lost. When assays have been completed on the coarse and fine portions of the bulk sample, a final assay is calculated based on the weight of each fraction.

† Detection limits for Pt are increased with high Au/Pt ratios and limits for other elements will be affected by abnormally high Au, Sb and Cu content.

Samples with high Au can be reanalyzed by Code 1C exploration or research. Zn concentrates are not amenable to the nickel sulphide fire assay. Au results by Code 1B1 or 1B2 can be low by nickel sulphide fire assay. For accurate Au values, please request Code 1C-exploration.

Trace Element Geochemistry & Digestion Specific Assays

Aqua Regia "Partial" Digestion

This leach uses a combination of concentrated hydrochloric and nitric acids to leach sulphides, some oxides and some silicates. Mineral phases which are hardly (if at all) attacked include barite, zircon, monazite, sphene, chromite, gahnite, garnet, ilmenite, rutile and cassiterite. The balance of silicates and oxides are only slightly to moderately attacked, depending on the degree of alteration. Generally, but not always, most base metals and gold are usually dissolved.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.

NOTE: For Code Ultratrace 1, Code Ultratrace 2 and Code UT-1M, Au is semi-quantitative due to the small sample size.

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Assays

Package	Code 8 - AR ICP-OES	Code 8 - AR ICP-MS
Ag	3 ppm	-
As	-	0.0004 - 1 %
Bi	-	0.0001 - 1 %
Cd	0.003 %	-
Co	0.003 %	0.0001 - 1 %
Cs	-	0.0001 - 1 %
Cu	0.001 %	0.0001 - 1 %
Fe	0.003 %	-
Ga	-	0.0001 - 1 %
Ge	-	0.0001 - 1 %
Hg	0.001 %	-
In	-	0.0001 - 1 %
Li	-	0.0001 - 1 %
Mo	-	0.0001 - 1 %
Ni	0.003 %	0.0001 - 1 %
Pb	0.003 %	0.0001 - 1 %
Re	-	0.0001 - 1 %
Se	-	0.0001 - 1 %
Sn	-	0.0003 - 1 %
Te	-	0.0001 - 1 %
Th	-	0.0001 - 1 %
Tl	-	0.0001 - 1 %
U	-	0.0001 - 1 %
W	-	0.0001 - 1 %
Zn	0.001 %	0.0001 - 1 %
One Element	\$13.25	\$17.00
Each Additional Element	\$2.25	\$2.25
All Elements	\$19.00	\$22.75

Package	ICP-OES		ICP-MS		ICP-OES + ICP-MS
	1E	1E3	UT-1M	Ultratrace 1	Ultratrace 2
Ag	0.2 - 100 ppm	0.2 - 100 ppm	0.1 - 100 ppm	0.002 - 100 ppm	0.002 - 100 ppm
Al	-	0.01 - 10 %	0.01 - 8 %	0.01 - 8 %	0.01 - 8 %
As	-	2 - 10,000 ppm	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Au	-	-	0.5 - 1,000 ppb	0.5 - 10,000 ppb	0.5 - 10,000 ppb
B	-	10 - 10,000 ppm	20 - 2,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm
Ba	-	10 - 10,000 ppm	1 - 10,000 ppm	0.5 - 6,000 ppm	0.5 - 6,000 ppm
Be	-	0.5 - 1,000 ppm	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Bi	-	2 - 10,000 ppm	0.1 - 2,000 ppm	0.02 - 2,000 ppm	0.02 - 2,000 ppm
Ca	-	0.01 - 10 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Cd	0.5 - 2,000 ppm	0.5 - 2,000 ppm	0.1 - 2,000 ppm	0.01 - 2,000 ppm	0.01 - 1,000 ppm
Ce	-	-	-	0.01 - 10,000 ppm	0.01 - 10,000 ppm
Co	-	1 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Cr	-	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Cs	-	-	-	0.02 - 500 ppm	0.02 - 500 ppm
Cu	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Er	-	-	-	0.1 - 1,000 ppm	0.1 ppm
Eu	-	-	-	0.1 - 100 ppm	0.1 ppm
Fe	-	0.01 - 30 %	0.01 - 30 %	0.01 - 30 %	0.01 - 30 %
Ga	-	10 - 10,000 ppm	1 - 1,000 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Gd	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Ge	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Hf	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Hg	1 - 10,000 ppm	1 - 10,000 ppm	0.01 - 50 ppm	10 - 10,000 ppb	10 - 10,000 ppb
Ho	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
In	-	-	-	0.02 - 500 ppm	0.02 - 500 ppm
K	-	0.01 - 10 %	0.01 - 5 %	0.01 - 5 %	0.01 - 5 %
La	-	10 - 10,000 ppm	1 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 1,000 ppm
Li	-	-	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Lu	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Mg	-	0.01 - 25 %	0.01 - 10 %	0.01 - 10 %	0.01 - 10 %
Mn	2 - 100,000 ppm	5 - 100,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Mo	2 - 10,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.01 - 10,000 ppm	0.01 - 10,000 ppm
Na	-	0.001 - 10 %	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %
Nb	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Nd	-	-	-	0.02 - 5,000 ppm	0.02 - 5,000 ppm
Ni	1 - 10,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
P	-	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %
Pb	2 - 5,000 ppm	2 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Pr	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Rb	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Re	-	-	-	0.001 - 100 ppm	0.001 - 100 ppm
S +	0.001 - 20 %	0.01 - 20 %	1 - 20 %	1 - 20 %	0.001 - 20 %
Sb	-	2 - 10,000 ppm	0.1 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Sc	-	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Se	-	-	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sm	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Sn	-	-	-	0.05 - 200 ppm	0.05 - 200 ppm
Sr	-	1 - 10,000 ppm	1 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Ta	-	-	-	0.05 - 50 ppm	0.05 - 50 ppm
Tb	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Te	-	1 - 500 ppm	0.2 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Th	-	20 - 10,000 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm
Ti	-	0.01 - 10 %	0.001 - 10 %	0.001 - 10 %	0.01 - 10 %
Tl	-	2 - 10,000 ppm	0.1 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Tm	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
U	-	10 - 10,000 ppm	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	-	1 - 10,000 ppm	2 - 1,000 ppm	1 - 1,000 ppm	1 - 1,000 ppm
W	-	10 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm
Y	-	1 - 1,000 ppm	-	0.01 - 500 ppm	0.01 - 500 ppm
Yb	-	-	-	0.1 - 200 ppm	0.1 - 200 ppm
Zn	1 - 10,000 ppm	2 - 10,000 ppm	1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Zr	-	1 - 10,000 ppm	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Price:	\$12.25	\$14.25	\$17.75	\$24.00	\$26.25

Extraction of each element by Aqua Regia Digestion is dependent on mineralogy + Sulphide sulphur and soluble sulphates are extracted

4-Acid "Near Total" Digestion

This acid attack is the most vigorous digestion used in geochemistry. It will employ hydrochloric, nitric, perchloric and hydrofluoric acids. Even with this digestion, certain minerals (barite, gahnite, chromite, cassiterite, etc.) may only be partially dissolved or stable in solution. Other minerals including zircon, sphene and magnetite may not be totally dissolved. Most other silicates will be dissolved, however some elements will be erratically volatilized, including As, Sb, Cr, U and Au.

Near-Total digestion **cannot** be used to obtain accurate determinations of REE, Ta, Nb, As, Sb, Sn, Hg, Cr, Au and U.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Assays

Package	Code 8 - 4 Acid ICP-OES	Code 8 - 4 Acid ICP-MS
Ag	3 ppm	1 - 10,000 ppm
Bi	-	0.0001 - 1 %
Cd	0.003 %	0.0001 - 1 %
Co	0.003 %	0.0001 - 1 %
Cu	0.001 %	0.0001 - 1 %
Li	0.01 %	-
Mo	0.003 %	0.0001 - 1 %
Ni	0.003 %	0.0001 - 1 %
Pb	0.003 %	0.0001 - 1 %
Se	-	0.0001 - 1 %
Sn	-	0.0001 - 1 %
Tl	-	0.0001 - 1 %
U	-	0.0001 - 1 %
Zn	0.001 %	0.0001 - 1 %
One Element	\$14.75	\$17.00
Each Additional Element	\$2.25	\$2.25
All Elements	\$20.50	\$22.75

Package	ICP-OES	ICP-MS		ICP-OES + ICP-MS	
	1F2	UT-4M	Ultratrace 4	Ultratrace 6	ME-MS61
Ag	0.3 - 100 ppm	0.1 - 100 ppm	0.05 - 100 ppm	0.05 - 100 ppm	0.01 - 100 ppm
Al	0.01 - 50 %	0.01 - 20 %	0.01 - 10 %	0.01 - 10 %	0.01 - 50 %
As	3 - 5,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.2 - 10,000 ppm
Au	-	100 - 2,000 ppb	-	-	-
B	-	-	20 - 6,000 ppm	-	-
Ba	7 - 1,000 ppm	1 - 10,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	10 - 10,000 ppm
Be	1 - 10,000 ppm	1 - 1,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.05 - 1,000 ppm
Bi	2 - 10,000 ppm	0.1 - 4,000 ppm	0.02 - 2,000 ppm	0.02 - 2,000 ppm	0.01 - 10,000 ppm
Ca	0.01 - 70 %	0.01 - 40 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Cd	0.3 - 2,000 ppm	0.1 - 4,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.02 - 1,000 ppm
Ce	-	1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.01 - 500 ppm
Co	1 - 10,000 ppm	0.2 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 10,000 ppm
Cr	1 - 10,000 ppm	1 - 10,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	1 - 10,000 ppm
Cs	-	0.1 - 10,000 ppm	0.05 - 100 ppm	0.05 - 100 ppm	0.05 - 500 ppm
Cu	1 - 10,000 ppm	0.1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Er	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
Eu	-	-	0.05 - 100 ppm	0.05 - 100 ppm	-
Fe	0.01 - 50 %	0.01 - 60 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Ga	1 - 10,000 ppm	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 10,000 ppm
Gd	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Ge	-	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 500 ppm
Hf	-	0.1 - 1,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 500 ppm
Hg	1	-	10 - 10,000 ppb	10 - 10,000 ppb	-
Ho	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
In	-	-	0.1 - 100 ppm	0.1 - 100 ppm	0.005 - 500 ppm
K	0.01 - 10 %	0.01 - 10 %	0.01 - 5 %	0.01 - 5 %	0.01 - 10 %
La	-	0.1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.5 - 10,000 ppm
Li	1 - 10,000 ppm	0.1 - 2,000 ppm	0.5 - 400 ppm	0.5 - 400 ppm	0.2 - 10,000 ppm
Lu	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Mg	0.01 - 50 %	0.01 - 30 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Mn	1 - 100,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	5 - 100,000 ppm
Mo	1 - 10,000 ppm	0.1 - 4,000 ppm	0.05 - 10,000 ppm	0.1 - 10,000 ppm	0.05 - 10,000 ppm
Na	0.01 - 10 %	0.001 - 10 %	0.01 - 3 %	0.01 - 3 %	0.01 - 10 %
Nb	-	0.1 - 2,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 500 ppm
Nd	-	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm	-
Ni	1 - 10,000 ppm	0.1 - 10,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm	0.2 - 10,000 ppm
P	0.001 - 10 %	0.001 - 5 %	-	0.001 - 10 %	10 - 10,000 ppm
Pb	3 - 5,000 ppm	0.1 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 10,000 ppm
Pr	-	-	0.1 - 5,000 ppm	0.1 - 1,000 ppm	-
Rb	-	0.1 - 2,000 ppm	0.2 - 500 ppm	0.2 - 500 ppm	0.1 - 10,000 ppm
Re	-	-	0.001 - 100 ppm	0.001 - 100 ppm	0.002 - 50 ppm
S +	0.01 - 20 %	1 - 10 %	-	0.01 - 20 %	0.01 - 10 %
Sb	5 - 10,000 ppm	0.1 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 10,000 ppm
Sc	4 - 10,000 ppm	1 - 200 ppm	-	1 - 5,000 ppm	0.1 - 10,000 ppm
Se	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	1 - 1,000 ppm
Sm	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Sn	-	0.1 - 2,000 ppm	1 - 200 ppm	1 - 200 ppm	0.2 - 500 ppm
Sr	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 1,000 ppm	0.2 - 10,000 ppm
Ta	-	0.1 - 2,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.05 - 100 ppm
Tb	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Te	2 - 10,000 ppm	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 500 ppm
Th	-	0.1 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.2 - 10,000 ppm
Ti	0.01 - 10 %	0.001 - 10 %	-	0.0005 - 10 %	0.005 - 10 %
Tl	5 - 10,000 ppm	0.05 - 10,000 ppm	0.05 - 500 ppm	0.05 - 500 ppm	0.02 - 10,000 ppm
Tm	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
U	10 - 10,000 ppm	0.1 - 4,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	2 - 10,000 ppm	4 - 10,000 ppm	1 - 10,000 ppm	1 - 1,000 ppm	1 - 10,000 ppm
W	5 - 10,000 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 10,000 ppm
Y	1 - 1,000 ppm	0.1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 500 ppm
Yb	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Zn	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	2 - 10,000 ppm
Zr	5 - 10,000 ppm	0.1 - 2,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	0.5 - 500 ppm
Price:	\$20.50	\$21.25	\$26.25	\$36.25	\$30.75

Extraction of each element by 4-Acid Digestion is dependent on mineralogy
+ Sulphide sulphur and soluble sulphates are extracted

Trace Element Geochemistry & Digestion Specific Assays

Peroxide "Total" Fusion

Peroxide Fusions: Sodium peroxide fusion will result in a total metal recovery. It is effective for the decomposition of sulphides and refractory minerals. For nickel sulphide deposits this is the preferred method. This method is not suitable if sodium is required. Code 8 4-Acid is recommended if sodium is required.



ICP-OES+ICP-MS	
Package	Ultratrace 7
Al	0.01 - 25 %
As	5 - 10,000 ppm
B	10 - 10,000 ppm
Ba	3 - 10,000 ppm
Be	3 - 5,000 ppm
Bi	2 - 5,000 ppm
Ca	0.01 - 40 %
Cd	2 - 5,000 ppm
Ce	0.8 - 5,000 ppm
Co	0.2 - 5,000 ppm
Cr	30 - 10,000 ppm
Cs	0.1 - 5,000 ppm
Cu	2 - 10,000 ppm
Dy	0.3 - 5,000 ppm
Er	0.1 - 5,000 ppm
Eu	0.1 - 1,000 ppm
Fe	0.05 - 30 %
Ga	0.2 - 5,000 ppm
Gd	0.1 - 5,000 ppm
Ge	0.7 - 5,000 ppm
Hf	10 - 5,000 ppm
Ho	0.2 - 1,000 ppm
In	0.2 - 1,000 ppm
K	0.1 - 25 %
La	0.4 - 10,000 ppm
Li	3 - 10,000 ppm
Mg	0.01 - 30 %
Mn	3 - 10,000 ppm
Mo	1 - 10,000 ppm
Nb	2.4 - 5,000 ppm
Nd	0.4 - 5,000 ppm
Ni	10 - 10,000 ppm
Pb	0.8 - 5,000 ppm
Pr	0.1 - 1,000 ppm
Rb	0.4 - 5,000 ppm
S +	0.01 - 25 %
Sb	2 - 5,000 ppm
Se	0.8 - 5,000 ppm
Si	0.01 - 30 %
Sm	0.1 - 1,000 ppm
Sn	0.5 - 10,000 ppm
Sr	3 - 10,000 ppm
Ta	0.2 - 10,000 ppm
Tb	0.1 - 1,000 ppm
Te	6 - 10,000 ppm
Th	0.1 - 1,000 ppm
Ti	0.01 - 25 %
Tl	0.1 - 1,000 ppm
Tm	0.1 - 1,000 ppm
U	0.1 - 10,000 ppm
V	5 - 10,000 ppm
W	0.7 - 5,000 ppm
Y	0.1 - 1,000 ppm
Yb	0.1 - 1,000 ppm
Zn	25 - 10,000 ppm
Price:	\$45.50

Assays

Package	ICP-OES	ICP-MS
	8-Peroxide ICP-OES	8-Peroxide ICPMS/ICP
Al	0.01 %	0.01 %
As	0.01 - 10 %	0.001 - 10 %
Be	0.001 %	0.001 %
Bi	-	0.001 %
Ca	0.01 %	0.01 %
Co	0.002 %	0.001 %
Cr	0.01 %	0.01 %
Cs	-	0.001 %
Cu	0.005 %	0.001 %
Fe	0.05 %	0.05 %
Ga	-	0.001 %
Ge	-	0.001 %
In	-	0.001 %
K	0.1 %	0.1 %
Li	0.01 %	0.001 %
Mg	0.01 %	0.01 %
Mn	0.01 %	0.01 %
Mo	-	0.001 %
Nb	-	0.001 %
Ni	0.005 %	0.001 %
Pb	0.01 %	0.001 %
Re	-	0.001 %
S	0.01 %	0.01 %
Sb	0.01 %	0.002 %
Se	-	0.001 %
Si	0.01 - 47 %	0.01 - 47 %
Sn	-	0.001 %
Ta	-	0.001 %
Te	-	0.001 %
Th	-	0.001 %
Ti	0.01 %	0.01 %
Tl	-	0.001 %
U	-	0.001 %
W	0.005 %	0.001 %
Zn	0.01 %	0.001 %
One Element	\$18.00	\$25.75
Each Additional Element	\$3.50	\$3.50
All Elements	\$28.25	\$36.25

Notes:

For concentrates, titration may be applicable. Please inquire.
For Code 8 - Peroxide ICP-OES - for As above 10%, analysis by INAA assay is recommended.

Hg add-on by cold vapour FIMS

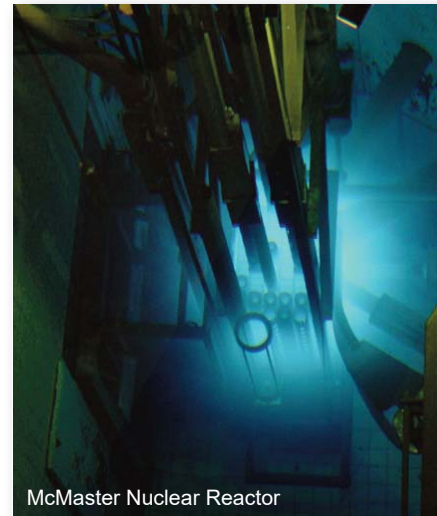
Code 1G (5 ppb)	add \$10.25
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Trace Element Geochemistry & Digestion Specific Assays

INAA

INAA							
1D		1D Enhanced		5B - Other Elements		5S - Short Lived Isotopes	
Ag	5 - 100,000 ppm	Ag	5 - 100,000 ppm	As	1 - 10,000 ppm	Al	1 - 100,000 ppm
As	2 - 10,000 ppm	As	0.5 - 10,000 ppm	Au	5 - 30,000 ppb	Br	5 - 10,000 ppm
Au	5 - 30,000 ppb	Au	2 - 30,000 ppb	Ba	100 - 100,000 ppm	Cl	100 - 100,000 ppm
Ba	100 - 500,000 ppm	Ba	50 - 500,000 ppm	Br	0.5 - 1,000 ppm	Cu	5 - 2,500 ppm
Br	1 - 1,000 ppm	Br	0.5 - 1,000 ppm	Ce	3 - 10,000 ppm	Dy	0.5 - 5,000 ppm
Ca	1 - 50 %	Ca	1 - 50 %	Co	0.5 - 10,000 ppm	Ga	5 - 10,000 ppm
Ce	3 - 10,000 ppm	Ce	3 - 10,000 ppm	Cr	1 - 100,000 ppm	I	0.5 - 5,000 ppm
Co	5 - 5,000 ppm	Co	1 - 5,000 ppm	Cs	0.5 - 10,000 ppm	In	0.1 - 5,000 ppm
Cr	10 - 100,000 ppm	Cr	5 - 100,000 ppm	Eu	0.2 - 2,000 ppm	Mg	0.05 - 50 %
Cs	2 - 10,000 ppm	Cs	1 - 10,000 ppm	Fe	0.01 - 75 %	Mn	0.1 - 10,000 ppm
Eu	0.2 - 2,000 ppm	Eu	0.2 - 2,000 ppm	Hf	0.5 - 500 ppm	Na	50 - 200,000 ppm
Fe	0.02 - 75 %	Fe	0.01 - 75 %	La	0.1 - 10,000 ppm	Re	1 - 5,000 ppm
Hf	1 - 500 ppm	Hf	1 - 500 ppm	Lu	0.05 - 1,000 ppm	Ti	50 - 100,000 ppm
Hg	1 - 1,000 ppm	Hg	1 - 1,000 ppm	Mo	2 - 10,000 ppm	V	0.1 - 10,000 ppm
Ir	5 - 10,000 ppb	Ir	5 - 10,000 ppb	Na	100 - 100,000 ppm	One Element	\$45.50
La	1 - 10,000 ppm	La	0.5 - 10,000 ppm	Nd	5 - 10,000 ppm	Each Additional	\$8.00
Lu	0.05 - 1,000 ppm	Lu	0.05 - 1,000 ppm	Rb	20 - 10,000 ppm	Element	
Mo	5 - 10,000 ppm	Mo	1 - 10,000 ppm	Sb	0.1 - 10,000 ppm		
Na	0.05 - 10 %	Na	0.01 - 10 %	Sc	0.1 - 200 ppm		
Nd	5 - 10,000 ppm	Nd	5 - 10,000 ppm	Se	2 - 10,000 ppm		
Ni	50 - 10,000 ppm	Ni	20 - 10,000 ppm	Sm	0.01 - 10,000 ppm		
Rb	30 - 10,000 ppm	Rb	15 - 10,000 ppm	Ta	0.5 - 10,000 ppm		
Sb	0.2 - 10,000 ppm	Sb	0.1 - 10,000 ppm	Th	0.2 - 10,000 ppm		
Sc	0.1 - 200 ppm	Sc	0.1 - 200 ppm	U	0.1 - 10,000 ppm		
Se	5 - 10,000 ppm	Se	3 - 10,000 ppm	W	2 - 10,000 ppm		
Sm	0.1 - 10,000 ppm	Sm	0.1 - 10,000 ppm	Yb	0.2 - 1,000 ppm		
Sn	0.05 - 10 %	Sn	0.02 - 10 %				
Sr	0.1 - 40 %	Sr	0.05 - 40 %	One Element	\$22.50		
Ta	1 - 10,000 ppm	Ta	0.5 - 10,000 ppm	Each Additional	\$2.75		
Tb	0.5 - 1,000 ppm	Tb	0.5 - 1,000 ppm	Element			
Th	0.5 - 10,000 ppm	Th	0.2 - 10,000 ppm				
U	0.5 - 10,000 ppm	U	0.5 - 10,000 ppm				
W	4 - 10,000 ppm	W	1 - 10,000 ppm				
Yb	0.2 - 1,000 ppm	Yb	0.2 - 1,000 ppm				
Zn	50 - 100,000 ppm	Zn	50 - 100,000 ppm				
Price:	\$24.00	Price:	\$27.25				

INAA: Instrumental Neutron Activation Analysis - Samples are encapsulated and irradiated in a nuclear reactor. After a suitable decay, samples are measured for the emitted gamma ray fingerprint. INAA is very good for Au, Co, As, Sb, W, Ta, U, Th, Cs, In, Re, Cl and lower levels of most LREE.



Pressed Pellet XRF

XRF	
4C1	
Ba	* 5 - 10,000 ppm
Co	** 5 - 1,000 ppm
Cr	** 5 - 10,000 ppm
Cu	** 5 - 2,500 ppm
Ga	* 5 - 10,000 ppm
Nb	* 1 - 10,000 ppm
Ni	** 4 - 4,000 ppm
Pb	** 5 - 1,000 ppm
Rb	* 2 - 10,000 ppm
Sn	5 - 10,000 ppm
Sr	* 2 - 10,000 ppm
V	** 5 - 10,000 ppm
Y	* 2 - 10,000 ppm
Zn	** 5 - 1,000 ppm
Zr	* 5 - 10,000 ppm
One Element	\$12.50
Each Additional Element	\$4.00
* lot	\$24.00
** lot	\$24.00



Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Trace Element Geochemistry & Digestion Specific Assays

Multi-Method Analyses

4-Acid "Near Total" Digestion + Total Determinations of Resistive Elements by INAA

Package	INAA+ICP-OES	INAA, ICP-OES, ICP-MS	INAA+ICP-MS
	1H	Ultratrace 3	Ultratrace 5
Ag	0.3 - 10,000 ppm	0.05 - 10,000 ppm	0.05 - 100,000 ppm
Al	0.01 -50 %	0.01 - 50 %	-
As	0.5 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 10,000 ppm
Au	2 - 30,000 ppb	2 - 30,000 ppb	2 - 30,000 ppb
Ba	50 - 500,000 ppm	1 - 100,000ppm	1 - 100,000 ppm
Be	1 - 10,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Bi	2 -10,000 ppm	0.02 - 10,000 ppm	0.02 - 2,000 ppm
Br	0.5 -5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Ca	0.01 - 70 %	0.01 - 70 %	0.01 - 50 %
Cd	0.3 - 2,000 ppm	0.1 - 2,000 ppm	0.1 - 1,000 ppm
Ce	3 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Co	1 - 5,000 ppm	1 - 5,000 ppm	0.1 - 5,000 ppm
Cr	2 - 100,000 ppm	1 - 10,000 ppm	1 - 100,000 ppm
Cs	1 - 10,000 ppm	0.05 - 5,000 ppm	0.05 - 5,000 ppm
Cu	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	0.1 - 5000 ppm	0.1 - 5000 ppm
Er	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Eu	0.2 - 10,000 ppm	0.05 - 1,000 ppm	0.05 - 100 ppm
Fe	0.01 - 70 %	0.01 - 70 %	0.01 - 50 %
Ga	-	0.1 - 500 ppm	0.1 - 500 ppm
Gd	-	0.1 - 500 ppm	0.1 - 5,000 ppm
Ge	-	0.1 - 500 ppm	0.1 - 500 ppm
Hf	1 -5,000 ppm	0.1 - 5,000 ppm	1 - 5,000 ppm
Hg	1 - 10,000 ppm	10 - 10,000 ppb	10 - 10,000 ppb
Ho	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
In	-	0.1 - 100 ppm	0.1 - 100 ppm
Ir	5 - 10,000 ppb	5 - 10,000 ppb	-
K	0.01 - 10 %	0.01 - 10 %	0.01 - 5 %
La	0.5 - 10,000 ppm	0.5 - 10,000 ppm	0.1 - 10,000 ppm
Li	1 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 400 ppm
Lu	0.05 - 10,000 ppm	0.1 - 100 ppm	0.1 - 100 ppm
Mg	0.01 - 50 %	0.01 - 50 %	0.01 - 10 %
Mn	1 - 100,000 ppm	1 - 100,000 ppm	1 - 10,000 ppm
Mo	1 - 10,000 ppm	0.2 - 10,000 ppm	0.05 - 10,000 ppm
Na	0.01 - 50 %	0.01 - 20 %	0.01 - 20 %
Nb	-	0.1 - 500 ppm	0.1 - 500 ppm
Nd	5 - 10,000 ppm	0.01 - 10,000 ppm	0.1 - 10,000 ppm
Ni	1 - 100,000 ppm	0.5 - 100,000 ppm	0.5 - 100,000 ppm
P	0.001 - 10 %	0.001 - 10 %	-
Pb	3 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Pr	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Rb	15 -10,000 ppm	0.2 - 5,000 ppm	0.2 - 5,000 ppm
Re	-	0.001 - 100 ppm	0.001 - 100 ppm
S +	0.01 - 20 %	0.01 - 20 %	-
Sb	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sc	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Se	3 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sm	0.1 - 10,000 ppm	0.1 - 100 ppm	0.1 - 100 ppm
Sn	0.02 - 20 %	1 - 200 ppm	1 - 200 ppm
Sr	1 - 10,000 ppm	0.2 - 1,000 ppm	0.2 - 1,000 ppm
Ta	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Tb	0.5 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 100 ppm
Te	-	0.02 - 500 ppm	0.1 - 500 ppm
Th	0.2 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Ti	0.01 - 10 %	0.01 - 10 %	-
Tl	-	0.05 - 500 ppm	0.05 - 500 ppm
Tm	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
U	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	2 - 10,000 ppm	2 - 10,000 ppm	1 - 1,000 ppm
W	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Y	1 - 1,000 ppm	0.01 - 10,000 ppm	0.1 - 10,000 ppm
Yb	0.2 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Zn	1 - 100,000 ppm	0.5 - 100,000 ppm	0.5 - 100,000 ppm
Zr	-	1 - 5,000 ppm	1 - 5,000 ppm
Price:	\$34.00	\$51.25	\$38.50

Aqua Regia "Partial" Digestion + Total Determinations of Resistive Elements by INAA

Geochemical Exploration for Epithermal Deposits

Package	INAA+ICP-OES	INAA, ICP-OES, ICP-MS
	Code 1EPI	Code 1EPI/MS
Ag	0.2 - 10,000 ppm	0.2 - 10,000 ppm
As	2 - 10,000 ppm	2 - 10,000 ppm
Au	5 - 30,000 ppb	5 - 30,000 ppb
Ba	50 - 100,000 ppm	100 - 100,000 ppm
Bi	-	0.1 - 1,000 ppm
Ca	-	0.01 - 50 %
Cd	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Cs	-	2 - 10,000 ppm
Cu	1 - 10,000 ppm	1 - 10,000 ppm
Fe	0.02 - 75%	0.02 - 75 %
Ga	-	1 - 10,000 ppm
Ge	-	0.1 - 1,000 ppm
Hg	1 - 10,000 ppm	0.01 - 1,000 ppm
K	-	0.01 - 20 %
Mn	2 - 20,000 ppm	2 - 20,000 ppm
Mo	2 - 10,000 ppm	2 - 10,000 ppm
Na	-	0.01 - 50 %
Ni	1 - 10,000 ppm	1 - 10,000 ppm
Pb	2 - 5,000 ppm	2 - 5,000 ppm
S +	0.001 - 20 %	0.001 - 20 %
Sb	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Se	-	0.1 - 1,000 ppm
Te	-	0.1 - 1,000 ppm
Tl	-	0.1 - 1,000 ppm
W	4 - 10,000 ppm	4 - 10,000 ppm
Zn	1 - 10,000 ppm	1 - 10,000 ppm
Price:	\$27.50	\$37.50

Extraction of each element by Aqua Regia is dependent on mineralogy

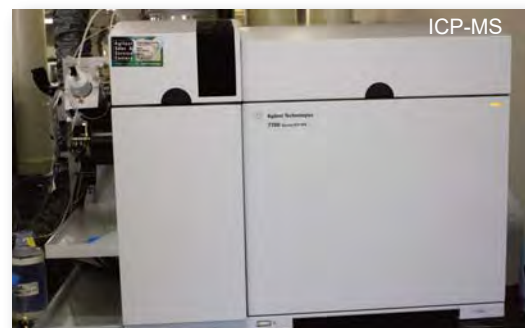
Bold elements are reported by INAA (total elements)

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

ICP-OES and ICP-MS analyses by 4-acid (hydrochloric, nitric, perchloric and hydrofluoric) digestion are "near total" digestions. INAA analysis yields total metals.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.



Extraction of each element by 4-Acid Digestion is dependent on mineralogy + Sulphide sulphur and soluble sulphates are extracted

Litho geochemistry and Whole Rock Analysis

Litho geochemistry

When submitting pulp material it must be 95% -74 µm or additional pulverization charges will apply.

The most aggressive fusion technique employs a lithium metaborate/tetraborate fusion. Fusion is performed by a robot at Actlabs, which provides a fast fusion of the highest quality in the industry. The resulting molten bead is rapidly digested in a weak nitric acid solution. The fusion ensures that the entire sample is dissolved. It is only with this attack that major oxides including SiO₂, refractory minerals (i.e. zircon, sphene, monazite, chromite, gahnite, etc.), REE and other high field strength elements are put into solution. High sulphide-bearing rocks may require different treatment but can still be adequately analyzed. Analysis is by ICP-OES and ICP-MS. Quality of data is exceptional and can be used for the most exacting applications. Values on replicates and standards are provided at no cost, as are REE chondrite plots. Eu determinations are semiquantitative in samples having extremely high Ba concentrations (> 5 %).

Mineralized Samples: Although intended primarily for unmineralized samples, mineralized samples can be analyzed. However, data may be semiquantitative for chalcophile elements (Ag, As, Bi, Co, Cu, Mo, Ni, Pb, Sb, Sn, W and Zn). For quantitative chalcophile data see **Quant** add-ons below.

Code 4B ICP-OES Whole Rock Package: Whole rock data which meets or exceeds quality of data by fusion XRF. 3 g required.

Code 4B2 Trace Element ICP-MS package: The trace element package by ICP-MS, Codes 4B2-STD or 4B2-RESEARCH, on the fusion solution provides research quality data whether using standard or research detection limits. 0.5 g required.

Research designation: indicates lower detection limits.

Code 4Litho and Code 4Lithoresearch: The 4B and 4B2 packages are combined. 5 g required.

Quant designation: For quantitative values of chalcophile elements a surcharge will apply. A minimum sample weight of 5 g is required.

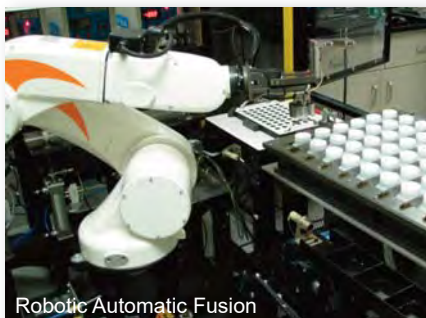
(+) Code 4B1: Optional elements by multiacid digestion. Please add 0.5 g.

(++) Code 4B-INAA: Optional elements are available by INAA. Please add 0.5 to 30 g depending on sample size you prefer to analyze for Au with this option.

All elements are in ppm except where noted. Prices per sample.

Add-ons:

4B1	\$11.00	surcharge
4B-INAA	\$19.75	surcharge
QUANT	\$21.25	surcharge



Robotic Automatic Fusion

	WRA-ICP 4B	Trace element 4B2-std	WRA+ICP 4Litho	Trace element 4B2 -research	WRA+Trace 4 Lithoresearch
Al ₂ O ₃	0.01%		0.01%		0.01%
CaO	0.01%		0.01%		0.01%
Fe ₂ O ₃	0.01%		0.01%		0.01%
K ₂ O	0.01%		0.01%		0.01%
MgO	0.01%		0.01%		0.01%
MnO	0.001%		0.001%		0.001%
Na ₂ O	0.01%		0.01%		0.01%
P ₂ O ₅	0.01%		0.01%		0.01%
SiO ₂	0.01%		0.01%		0.01%
TiO ₂	0.001%		0.001%		0.001%
LOI	0.01%		0.01%		0.01%
Ag	(0.3+)	0.5	0.5	0.5	0.5
As	(0.5++)	5 (0.5++)	5 (0.5++)	5 (0.5++)	5 (0.5++)
Au	(2 ppb++)	(2 ppb++)	(2 ppb++)	(2 ppb++)	(2 ppb++)
Ba	2	3	2	3	3
Be	1		1		1
Bi		0.4	0.4	0.1	0.1
Br	(0.5++)	(0.5++)	(0.5++)	(0.5++)	(0.5++)
Cd	(0.5+)	(0.5+)	(0.5+)	(0.5+)	(0.5+)
Co	(1++)	1	1	1	1
Cr	(5++)	20 (5++)	20 (5++)	20 (5++)	20 (5++)
Cs	(1++)	0.5	0.5	0.1	0.1
Cu	(1+)	10 (1+)	10 (1+)	10 (1+)	10 (1+)
Fe		(0.01%++)		(0.01%++)	
Ga		1	1	1	1
Ge		1	1	0.5	0.5
Hf	(1++)	0.2	0.2	0.1	0.1
In		0.2	0.2	0.1	0.1
Ir	(5 ppb++)	(5 ppb++)	(5 ppb++)	(5 ppb++)	(5 ppb++)
Mo	(5++)	2	2	2	2
Na		(0.01%++)		(0.01%++)	
Nb		1	1	0.2	0.2
Ni	(1+)	20 (1+)	20 (1+)	20 (1+)	20 (1+)
Pb	(5+)	5	5	5	5
Rb	(20++)	2	2	1	1
S	(100+)	(100+)	(100+)	(100+)	(100+)
Sb	(0.2++)	0.5 (0.2++)	0.5 (0.2++)	0.2	0.2
Sc	1	(0.1++)	1 (0.1++)	(0.1++)	1 (0.1++)
Se	(3++)	(3++)	(3++)	(3++)	(3++)
Sn		1	1	1	1
Sr	1	2	2	2	2
Ta	(0.5++)	0.1	0.1	0.01	0.01
Th	(0.2++)	0.1	0.1	0.05	0.05
Tl		0.1	0.1	0.05	0.05
U	(0.5++)	0.1	0.1	0.01	0.01
V	5	5	5	5	5
W	(1++)	1	1	0.5	0.5
Y	1	1	1	0.5	0.5
Zn	(1+)	30 (1+)	30 (1+)	30 (1+)	30 (1+)
Zr	2	5	2	1	1
La	(0.5++)	0.1	0.1	0.05	0.05
Ce	(3++)	0.1	0.1	0.05	0.05
Pr		0.05	0.05	0.01	0.01
Nd	(5++)	0.1	0.1	0.05	0.05
Sm	(0.1++)	0.1	0.1	0.01	0.01
Eu	(0.2++)	0.05	0.05	0.005	0.005
Gd		0.1	0.1	0.01	0.01
Tb	(0.5++)	0.1	0.1	0.01	0.01
Dy		0.1	0.1	0.01	0.01
Ho		0.1	0.1	0.01	0.01
Er		0.1	0.1	0.01	0.01
Tm		0.05	0.05	0.005	0.005
Yb	(0.2++)	0.1	0.1	0.01	0.01
Lu	(0.05++)	0.01	0.01	0.002	0.002
1 - 10 samples	\$43.00	\$62.50	\$88.50	\$102.00	\$125.00
11 + samples	\$36.25	\$56.75	\$73.75	\$85.00	\$102.00

Litho geochemistry and Whole Rock Analysis

When submitting pulp material it must be 95% -74 µm or additional pulverization charges will apply.

	INAA 4A-research	WRA-XRF 4C	Total IDENT 4E-expl.	Total IDENT 4E-research
Al ₂ O ₃		0.01%	0.01%	0.01%
CaO		0.01%	0.01%	0.01%
Cr ₂ O ₃		0.01%		
Co ₃ O ₄		0.005%		
CuO		0.005%		
Fe ₂ O ₃		0.01%	0.01%	0.01%
K ₂ O		0.01%	0.01%	0.01%
MgO		0.01%	0.01%	0.01%
MnO		0.001%	0.01%	0.01%
Na ₂ O		0.01%	0.01%	0.01%
NiO		0.003%		
P ₂ O ₅		0.01%	0.01%	0.01%
SiO ₂		0.01%	0.01%	0.01%
TiO ₂		0.01%	0.005%	0.005%
V ₂ O ₅		0.003%		
LOI		0.01%	0.01%	0.01%
Ag	2		0.5	0.5
As	1		2	1
Au	2 ppb		5 ppb	1 ppb
Ba	20		3	1
Be			1	1
Bi			2	2 (0.1 ††)
Br	0.5		1	0.5
Ca	0.2%			
Cd			0.5	0.5
Co	0.1		1	0.1
Cr	0.5		1	0.5
Cs	0.2		0.5	0.2 (0.1 ††)
Cu			1	1
Fe	0.01%			
Ga			(5 †)	(5 †) (1 ††)
Ge				(0.5 ††)
Hf	0.2		0.5	0.2 (0.1 ††)
In				(0.1 ††)
Ir	2 ppb		2	2
Mo	2		5	2
Na	0.001%			
Nb			(1 †)	(1 †) (0.2 ††)
Ni	50		1	1
Pb			(5 †)	(5 †)
Rb	10		20 (2 †)	10 (2 †) (1 ††)
S			0.001%	0.001%
Sb	0.1		0.2	0.1
Sc	0.01		0.1	0.01
Se	0.5		3	0.5
Sn			(5 †)	(5 †) (1 ††)
Sr	100		2	2
Ta	0.3		1	0.3 (0.01 ††)
Th	0.1		0.5	0.1 (0.05 ††)
Tl				(0.05 ††)
U	0.1		0.5	0.1 (0.01 ††)
V			5	5
W	1		3	1
Y			1	1
Zn	10		2	2
Zr			4	4 (1 ††)
La	0.05		0.5	0.05
Ce	1		3	1 (0.05 ††)
Pr	(0.01 †)			(0.01 ††)
Nd	1		5	1 (0.05 ††)
Sm	0.01		0.1	0.01
Eu	0.05		0.1	0.05 (0.005 ††)
Gd	(0.01 †)			(0.01 ††)
Tb	0.1		0.5	0.1 (0.01 ††)
Dy	(0.01 †)			(0.01 ††)
Ho	(0.01 †)			(0.01 ††)
Er	(0.01 †)			(0.01 ††)
Tm	(0.01 †)			(0.005 ††)
Yb	0.05		0.1	0.05 (0.01 ††)
Lu	0.01		0.05	0.01 (0.002 ††)
1 - 10 samples	\$78.25	\$45.50	\$62.50	\$136.25
11 + samples	\$73.75	\$38.50	\$56.75	\$125.00

Research designation: indicates lower detection limits.

Code 4A-research: Grades are determined by INAA. A minimum sample weight of 2 g is recommended. REE chondrite plots are provided at no charge.

Code 4A RES-MS: elements indicated by † are analyzed by fusion ICP-MS.

Code 4C: The tried and true fusion XRF whole rock package. Samples containing high barite or high sulphide (greater than 1%) should be analyzed with Code 4B. A minimum sample weight of 3 g is required. We reserve the right to change analytical method to Code 4B if required by the sample composition.

Code 4E: This package uses ICP and INAA technologies to completely characterize geological samples. This package is not suitable for analyzing concentrates or mill products. A minimum sample weight of 5 g is required.

Code 4E Options

• † **Code 4E-XRF** elements Ga, Pb, Sn, Nb and Rb are examined by Pressed Pellet XRF. This package can be added to Code 4E exploration or Code 4E research (please add 6 g of sample).

• †† **Code 4E ICP-MS** add-on option: can only be added to Code 4E research grade.

Code 4F: Other analyses associated with WRA (can be added to any Code 4 package). Add 1 gram for each option chosen (see below).

All elements are in ppm except where noted. Prices per sample.

Add-ons:

Code 4E-XRF	\$24.00	surcharge
Code 4E ICP-MS	\$39.50	surcharge

Carbon & Sulphur Analyses

4F - C-Total (0.01%) by IR	\$19.50
4F - C-Organic (0.02%) (non-carbonate carbon)	\$35.00
4F - C-Organic (0.5%) by IR (calc)	\$57.50
4F - C-Graphitic (0.05%) by IR	\$28.25
4F - C,S (0.01%) by IR	\$22.75
4F - S (0.01%) by IR	\$19.50
4F - Sulphide	\$26.25
4F - SO ₄ (0.3%) by IR	\$26.25
4F - CO ₂ (0.01%) by IR	\$19.50

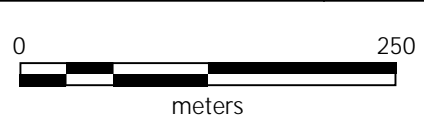
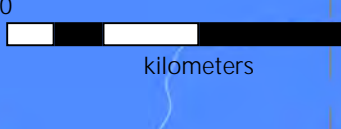
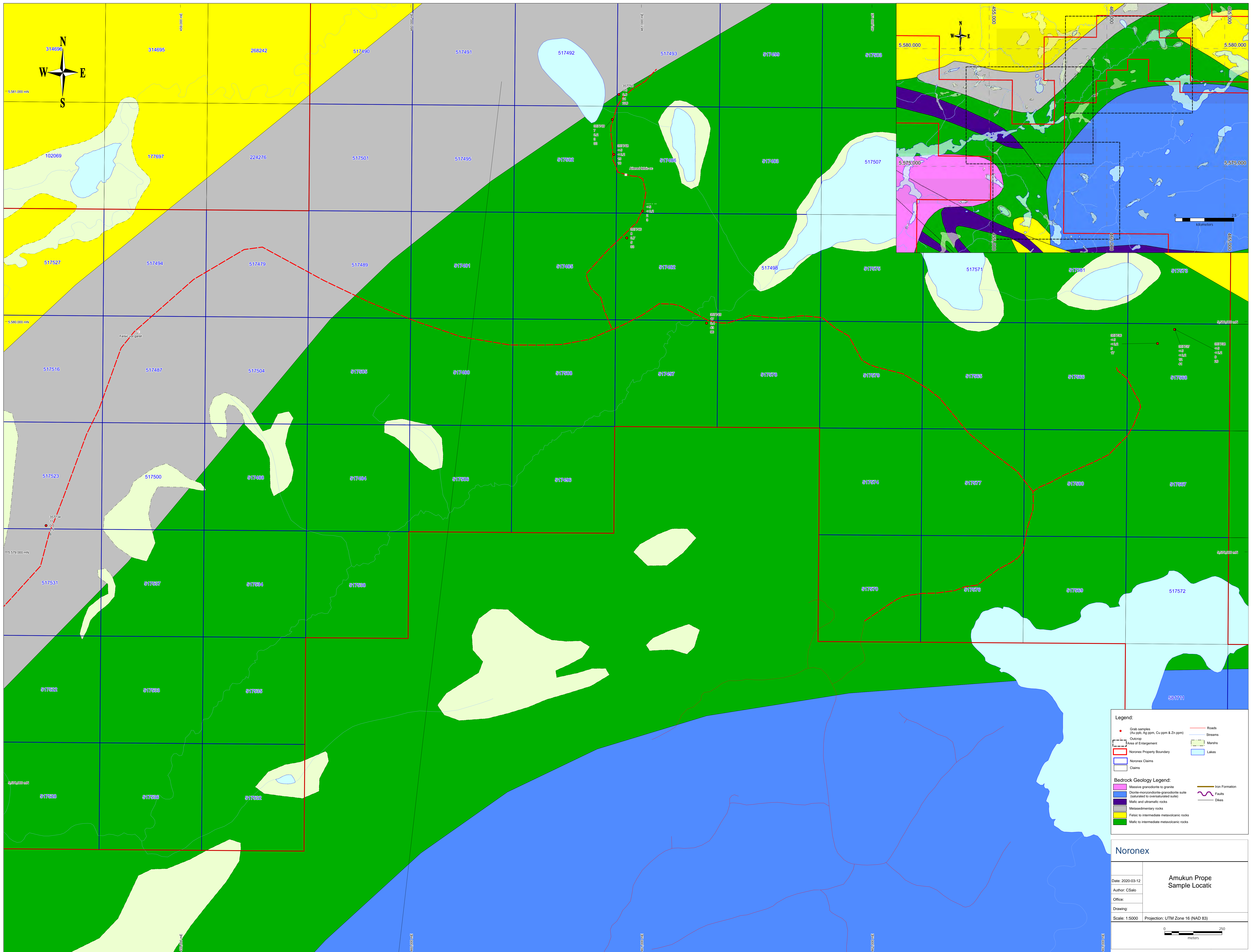
Code 5G - Carbon & Sulphur/Metallurgical Balance Package

Element	Detection Limit	Price: \$96.50/sample
C-Total	0.01%	
C-Graphitic	0.05%	
C-Organic	0.5%	
CO ₂	0.01%	
S	0.01%	
SO ₄	0.3%	

Miscellaneous Analyses

4F - Cl (0.01%) by INAA	\$28.25
4F - B (2 ppm) by PGNA	\$42.00
4F - B (0.5 ppm) by PGNA	\$52.50
4F - F (0.01%) by ISE	\$22.75
4F - N (Total)	\$45.75
4F - Hg by Cold Vapour FIMS	\$10.25
4F - FeO (0.1%) by Titration	\$19.50
4F - H ₂ O +/- (0.1%) IR or Gravimetric	\$26.25

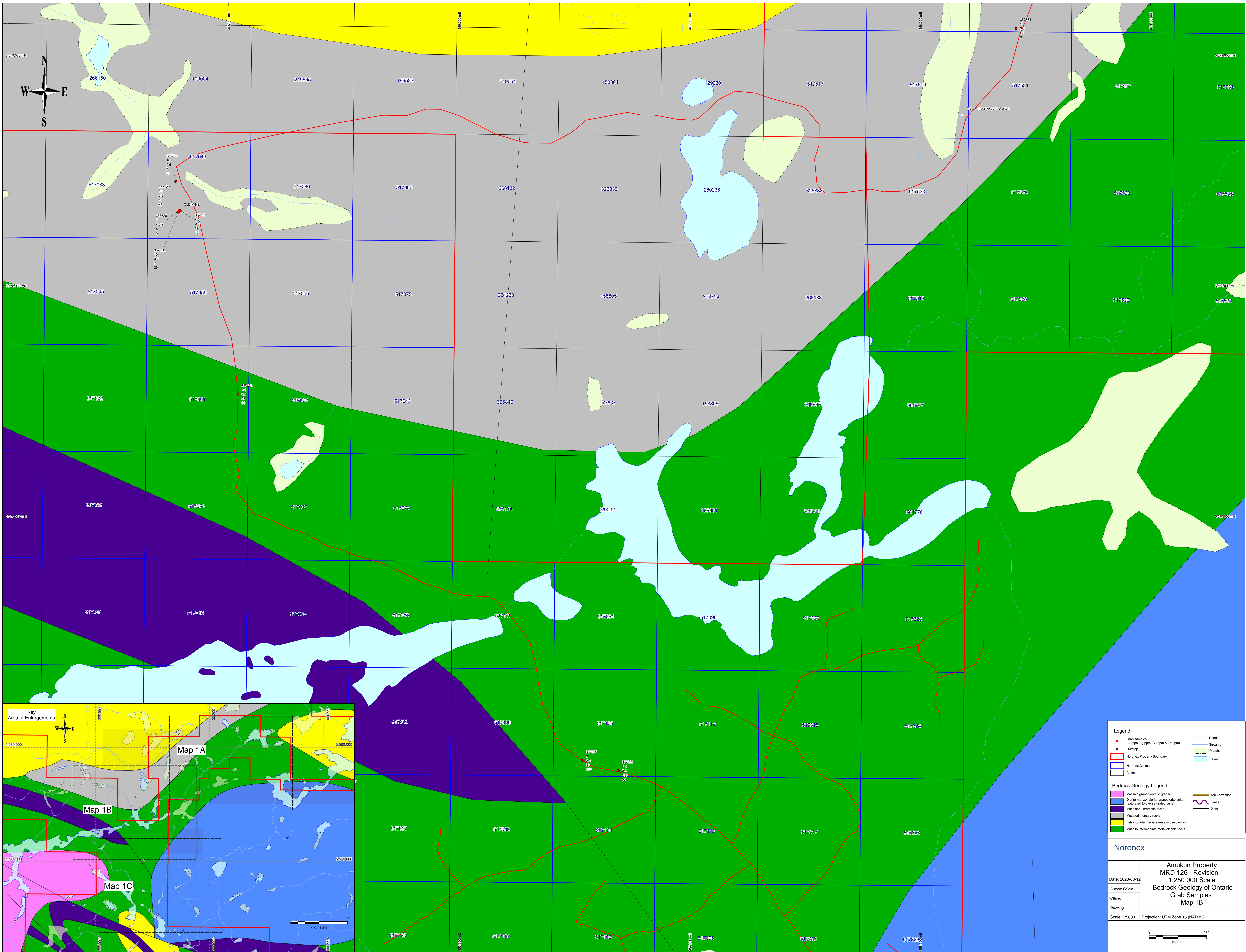
Appendix VI
Sample Maps

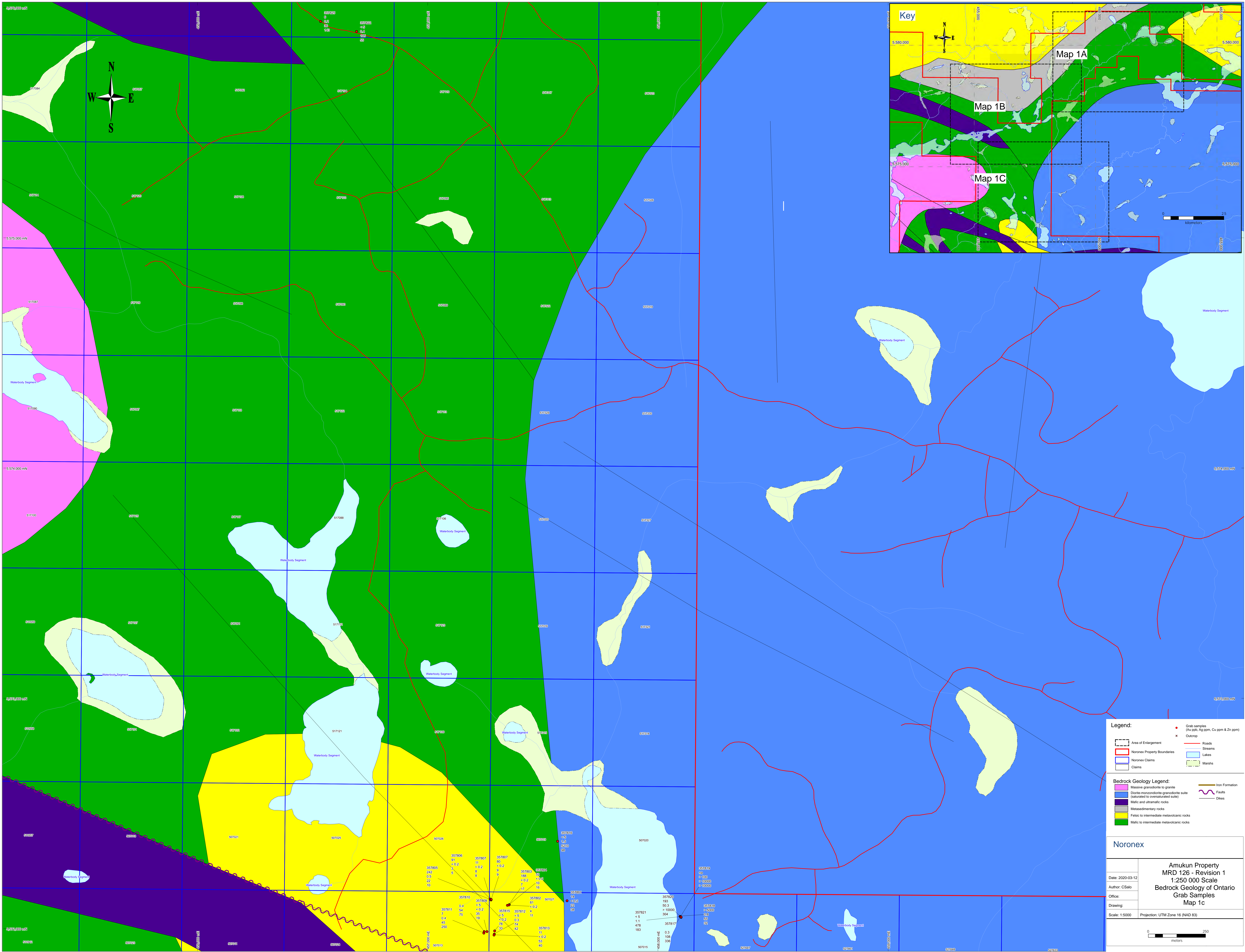


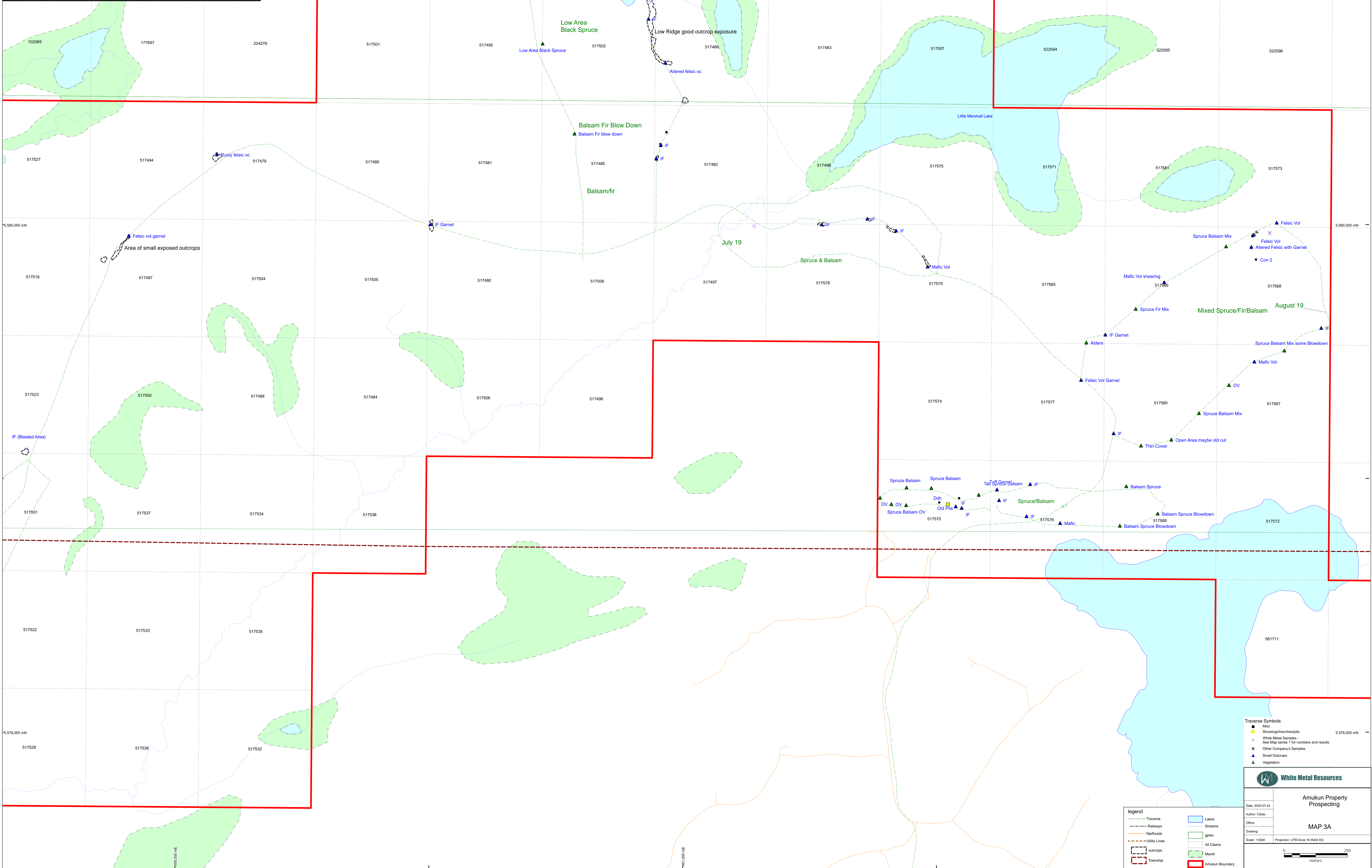
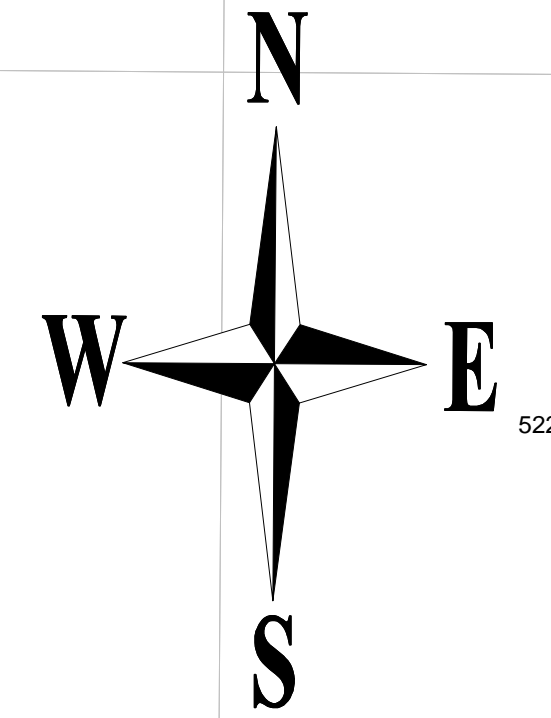
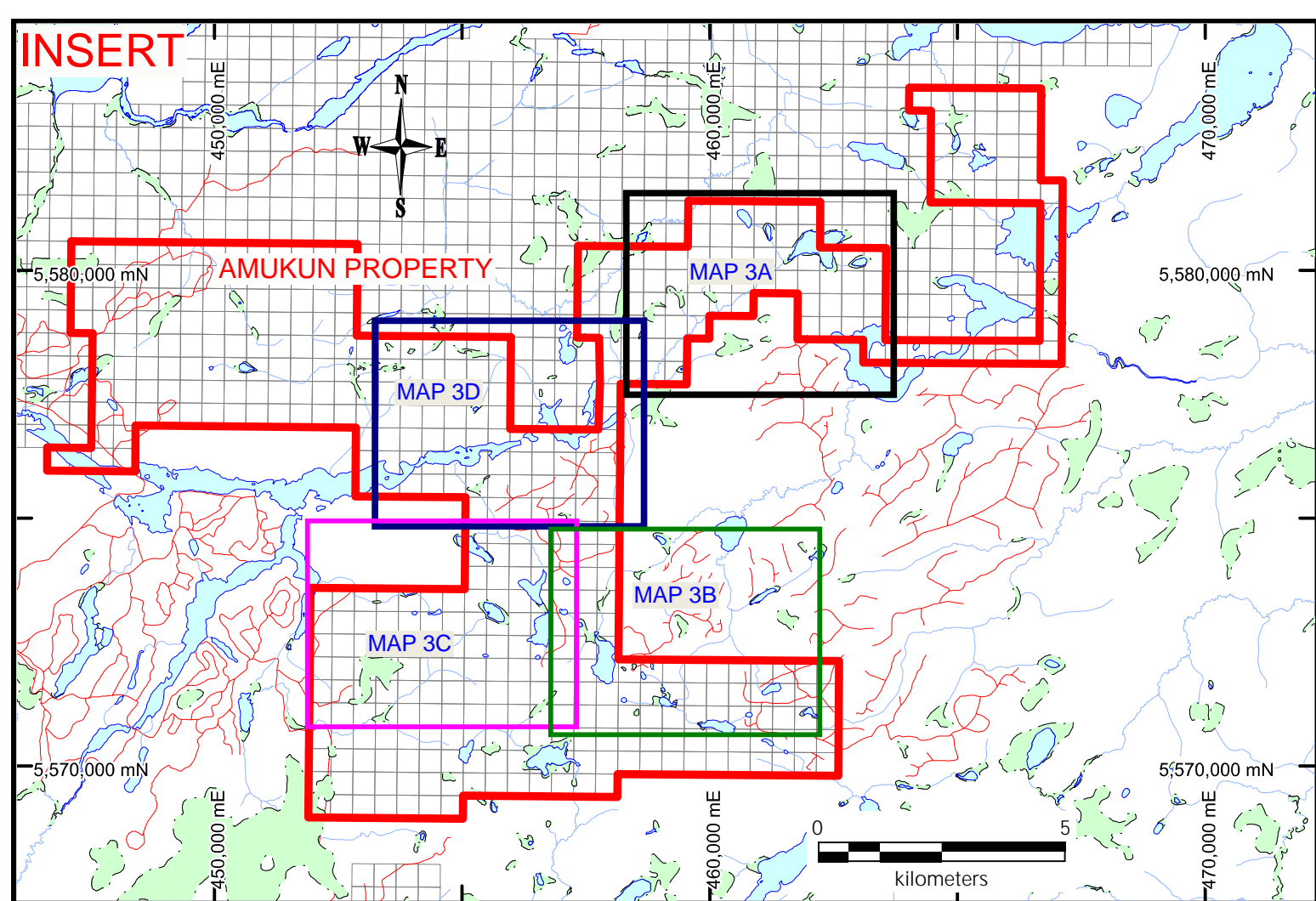
- Legend:**
- Grab samples (Au ppm, Ag ppm, Cu ppm & Zn ppm)
 - Outcrop
 - - - Area of Enlargement
 - ▭ Noronex Property Boundary
 - ▭ Noronex Claims
 - ▭ Claims
 - Roads
 - Streams
 - Marshes
 - Lakes
- Bedrock Geology Legend:**
- Massive granodiorite to granite
 - Diorite-monzonitoidite-granodiorite suite (saturated to oversaturated suite)
 - Mafic and ultramafic rocks
 - Metasedimentary rocks
 - Felsic to intermediate metavolcanic rocks
 - Mafic to intermediate metavolcanic rocks
 - Iron Formation
 - Faults
 - Dikes

Noronex

Date: 2020-03-12	Amkun Prope Sample Locatic
Author: CSalo	
Office:	
Drawing:	
Scale: 1:5000	Projection: UTM Zone 16 (NAD 83)







- Traverse Symbols
- Misc
 - Showings/trenches/pits
 - ☆ White Metal Samples - See Map series 1 for numbers and results
 - ✱ Other Company's Samples
 - ▲ Small Outcrops
 - ▲ Vegetation

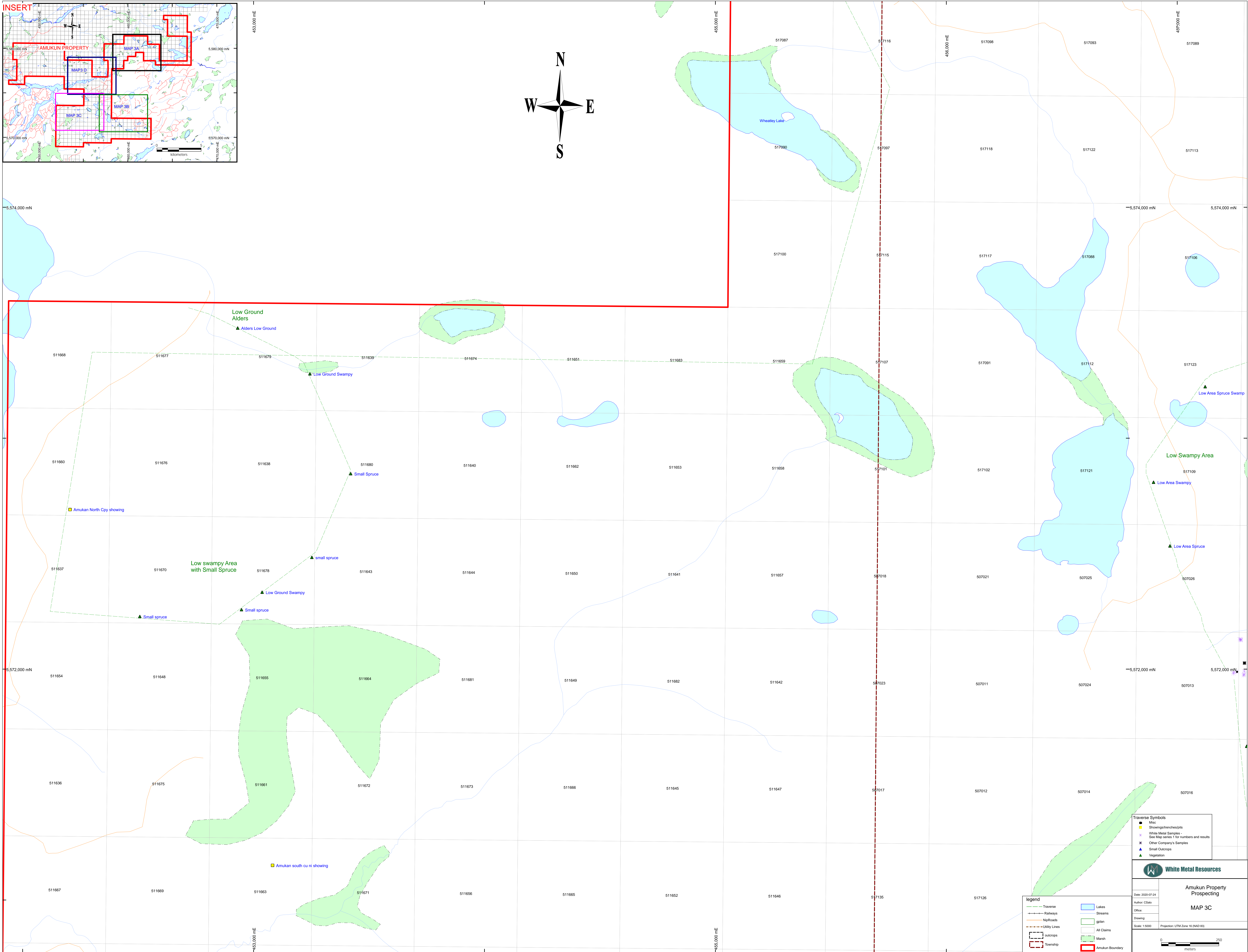
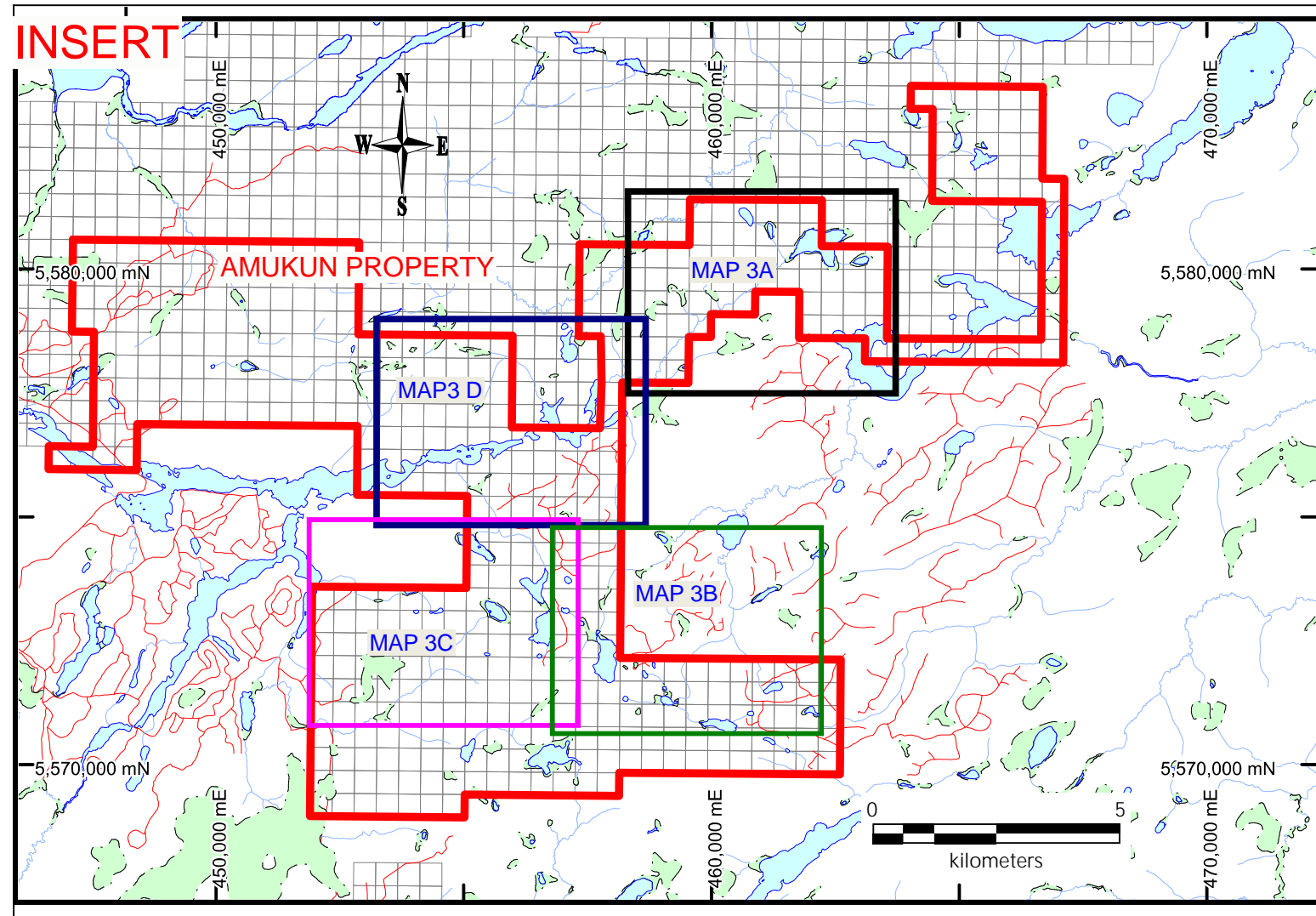
- Legend
- Traverse
 - Railways
 - Streams
 - Highways
 - Utility Lines
 - Outcrops
 - Township
 - Amukun Boundary
 - Lakes
 - gban
 - All Claims
 - Marsh

White Metal Resources

Amukun Property
Prospecting

MAP 3A

Date: 2020-07-24
 Author: CSolo
 Office:
 Drawing:
 Scale: 1:5000 Projection: UTM Zone 18 (NAD 83)



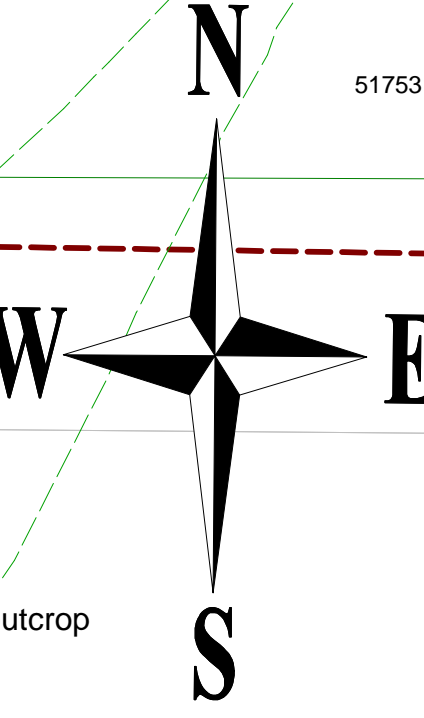
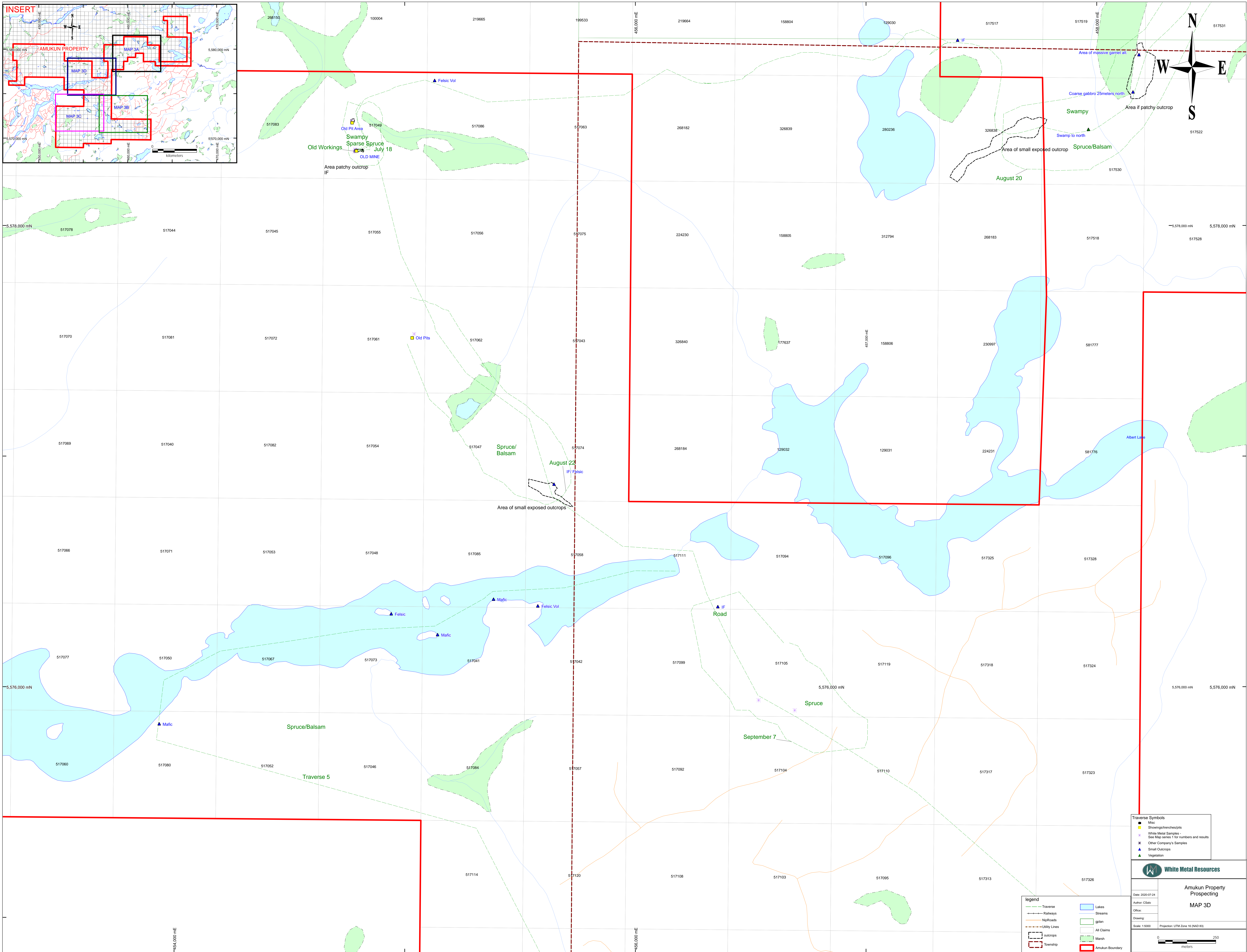
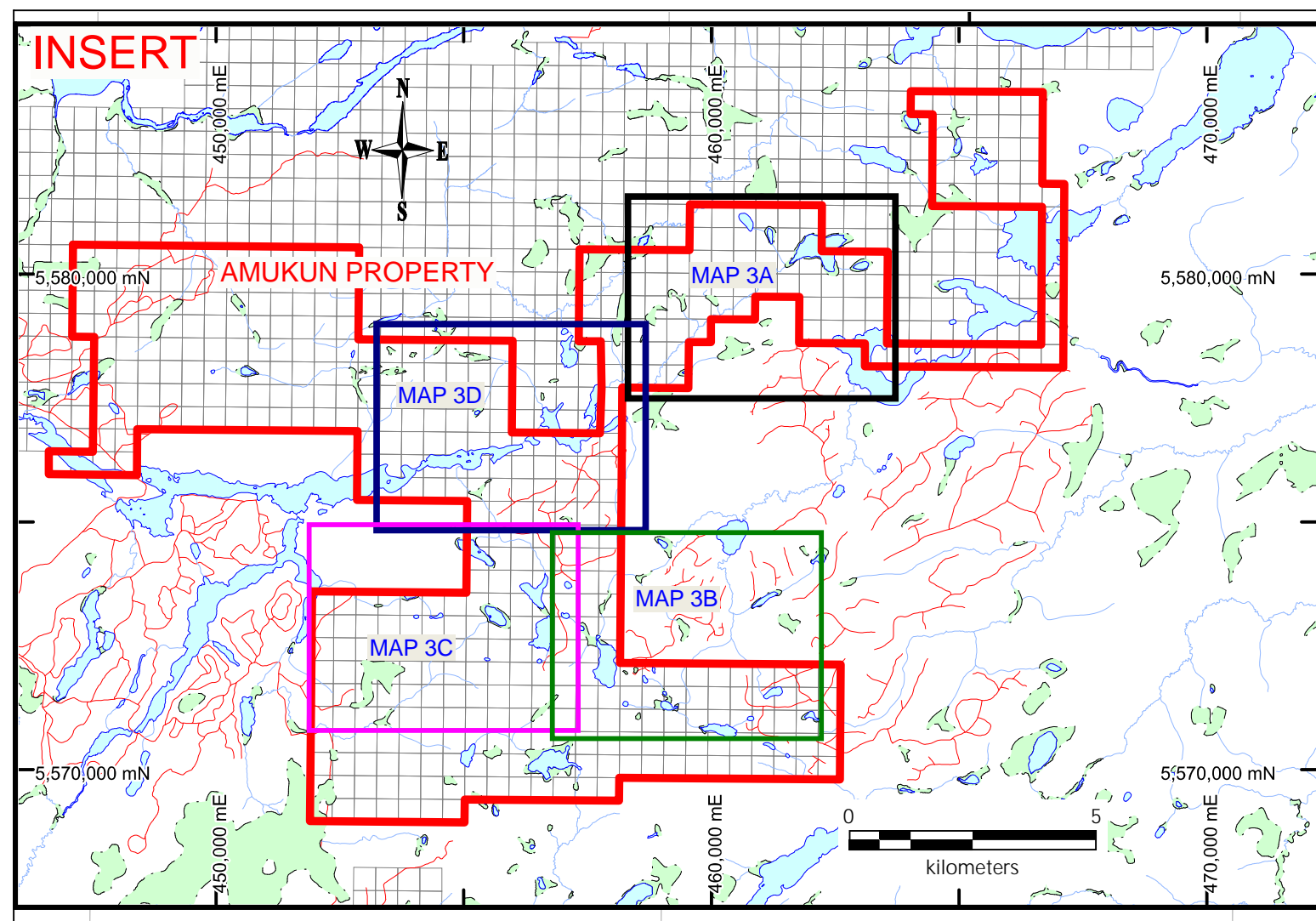
- Traverse Symbols**
- Mtc
 - Showings/trenches/pits
 - White Metal Samples
 - See Map series 1 for numbers and results
 - Other Company's Samples
 - ▲ Small Outcrops
 - ▲ Vegetation

White Metal Resources

Amukun Property
Prospecting
MAP 3C

Date: 2020-07-24
Author: C/Geo
Office:
Drawing:
Scale: 1:5000
Projection: UTM Zone 16 (NAD 83)

0 250
meters



White Metal Resources

Amukun Property
Prospecting
MAP 3D

Date: 2020-07-24
Author: C240
Office:
Drawing:
Scale: 1:5000
Projection: UTM Zone 16 (NAD 83)

0 250 meters

Legend

- Traverse
- Railways
- Roads
- Utility Lines
- Outcrops
- Township
- Lakes
- Streams
- golan
- All Claims
- Marsh
- Amukun Boundary

Traverse Symbols

- Misc
- Showings/trenches/pits
- White Metal Samples - See Map series 1 for numbers and results
- Other Company's Samples
- Small Outcrops
- Vegetation

12. CERTIFICATION OF QUALIFICATIONS

I, Cathy Salo, of 475 Francis St. East, Thunder Bay, Ontario, do hereby certify that:

1. I hold a Bachelor of Science Degree in Earth Science (1989) from Memorial University of Newfoundland, St. John's, Newfoundland and Labrador.
2. I have practiced my profession in Ontario since 1989 and have been employed directing by Ontario mining exploration companies for the last 17 years as the sole proprietary of Salo Geoscience Services.



Cathy Salo
Salo Geoscience Services
Date: March 15, 2020