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**2019  
Assessment Grass Roots**

**Headway A & B Property  
Thunder Bay Mining Division  
Northwestern Ontario**

**Headway A**

NTS 042E14

G. Plan - FULLERTON LAKE AREA

Claims

151284,170083,265437,133286,151286,226238,265438,319933,505090,505105,505113,505128  
,505970,505991,506008,133285,151285,153498,198842,285481,319934,322075,333910,33391  
1,505095,505103,505114,505115,505127

**Headway B**

NTS042E12 & 14

G. Plan - CASTLEWOOD LAKE AREA, FULLERTON LAKE AREA & LAPIERRE LAKE  
AREA

Claims

115379, 133344, 218962, 226241, 265440, 265441, 272839, 285484

**Prepared for  
Noronex Ltd.**

By Cathy Salo  
December 30, 2019

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## 1. INTRODUCTION

The Headway Property Castlewood Lake, Fullerton Lake, and Lapierre Lake Area, approximately 200km Northeast of Thunder Bay, Ontario, and 40km Northwest of Geraldton, in the Thunder Bay Mining Division.

The Headway Property lies within the Eastern Wabigoon Subprovince. The Headway Property area is broken into three separate claims blocks, Block A, B, and C. Block A lies within the Onaman Pluton while Block B/C are within the Onaman Assemblage (Ca. 2770-2780 Ma): The Onaman assemblage is limited in distribution, concentrated along the flank of the Onaman pluton. It is composed of low TiOs (<1%) tholeiitic basalt flows with trace element profiles analogous to a mix of ocean floor and primitive island arc affinities. The basaltic flows are massive to pillowed and interbedded with magnetite-chert, oxide iron formation, which characterises this assemblage. The sequence is overlain by Calc-alkalic, felsic metavolcanic unit of flow and pyroclastic rocks of the Elmhirst-Rickaby formation. The assemblage is the same age as the adjacent Onaman tonalite but was deposited during a period for which there is relatively little documented volcanic activity in the Superior Province of Ontario.

The work done on the property in the past has identified anomalous values of Au, Ag, Cu, Ni, Zn and Pt/Pd. The majority of historic work has been completed on the Headway "B" block, known historically as 'Final Lake', where two zones were identified. The Ryan 1&2 trenches west of Altitude Lake, discovered during a channel sampling program by Spruce Ridge Resources in 2001 and historic trenches south of Final Lake exposed anomalous Pt/Pd and Au values. Channel samples returned values between 0 to 0.13 g/t Au, 0.3 to 10.80 g/t Ag, 0.03 to 0.91 % Cu, 0.03 to 0.75 g/t Pt, and 0.10 to 2.65 g/t Pd. Sample 09RCB517 returned 0.11g/t Au, 0.76 g/t Ag, 0.16% Cu, 0.13% Ni, 0.75 g/t Pt, and 2.65g/t Pd. . More recent trenching by Sage Gold Inc has uncovered another zone of PGE mineralization on the Headway A block at the 'Main Trench'

Note that the "Technical Report on the Headway Property" prepared by: D. Cullen, P.Geo. and J. Garry Clark, P.Geo., Clark Exploration Consulting, January 16th, 2019 was utilized in the preparation of the assessment report. Sections which apply to that report have been used directly from the technical report along with some drawings. Updates and additions have been made to the written report and required drawings have been added.

## 2. PROPERTY DESCRIPTION AND LOCATION



Figure 1: Headway Ontario Location Map

The Headway Property in Castlewood Lake, Fullerton Lake, and Greta Lake Townships, approximately 200km Northeast of Thunder Bay, Ontario, and 40km Northwest of Geraldton, in the Thunder Bay Mining Division.

The Headway Property is broken into three claim blocks denoted by block A, B, and C (Figure 2). Claim block C is not covered in this report.

The Headway A property consists of 420 unpatented claims or 8695 hectares. . The approximate UTM co-ordinates for the centre of the property are 478,761E, 5,533,586.N (Datum NAD 83 UMT Zone 16); NTS 42 E / 14.

The Headway B property consists of 185 unpatented claims or 3837 hectares. . The approximate UTM co-ordinates for the centre of the property are 478,761E, 5,533,586.N (Datum NAD 83 UMT Zone 16); NTS 42 E / 13 &14. The claim dispositions are listed in Appendix I (Figure 1).

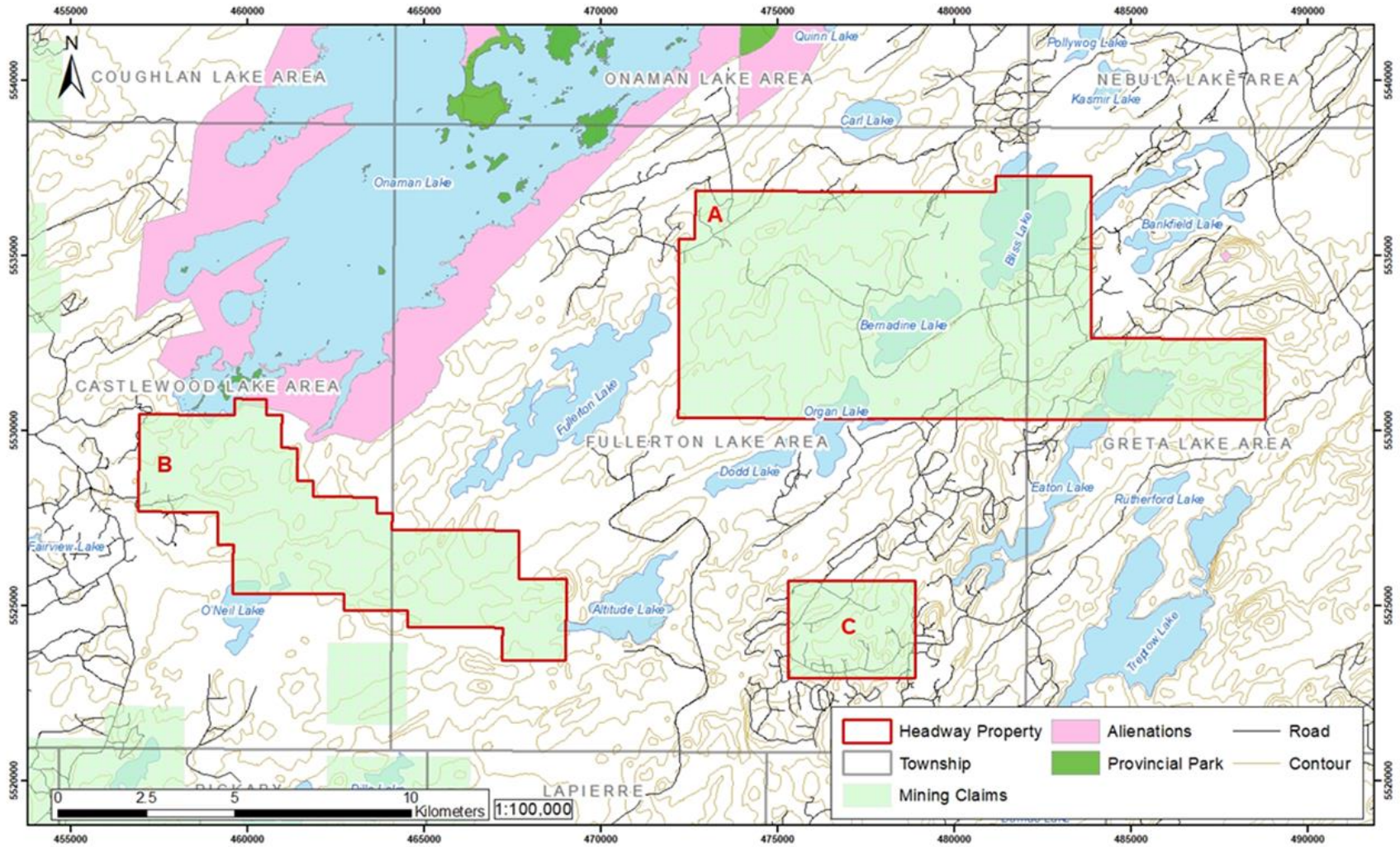


Figure 2 Headway Claim Blocks



### 3. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Property lies approximately 200 km Northeast of Thunder Bay and 40km Northwest of the town of Geraldton, Ontario (see Figure 1). Access to the Property can also be gained by way of logging roads for Geraldton by driving north on Greta Road for approximately 23km, then left (west) on Spade road for approximately 40km. These logging roads provide access directly to the Property.

Topography is generally gentle with relief varying no more than 20m across the property. Portions of the property have been clear-cut, with the remaining bush consisting of pine, spruce, birch, tamarack, poplar and alder/cedar swamp. Outcrop constitutes approximately 5% over the claims but can be as high as 20% in several clear-cut areas. Glacial deposits consist largely of glaciofluvial sands and gravel eskers.

The municipality of Greenstone, population 4,636, is located along Trans-Canada Highway 11, 40km 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.

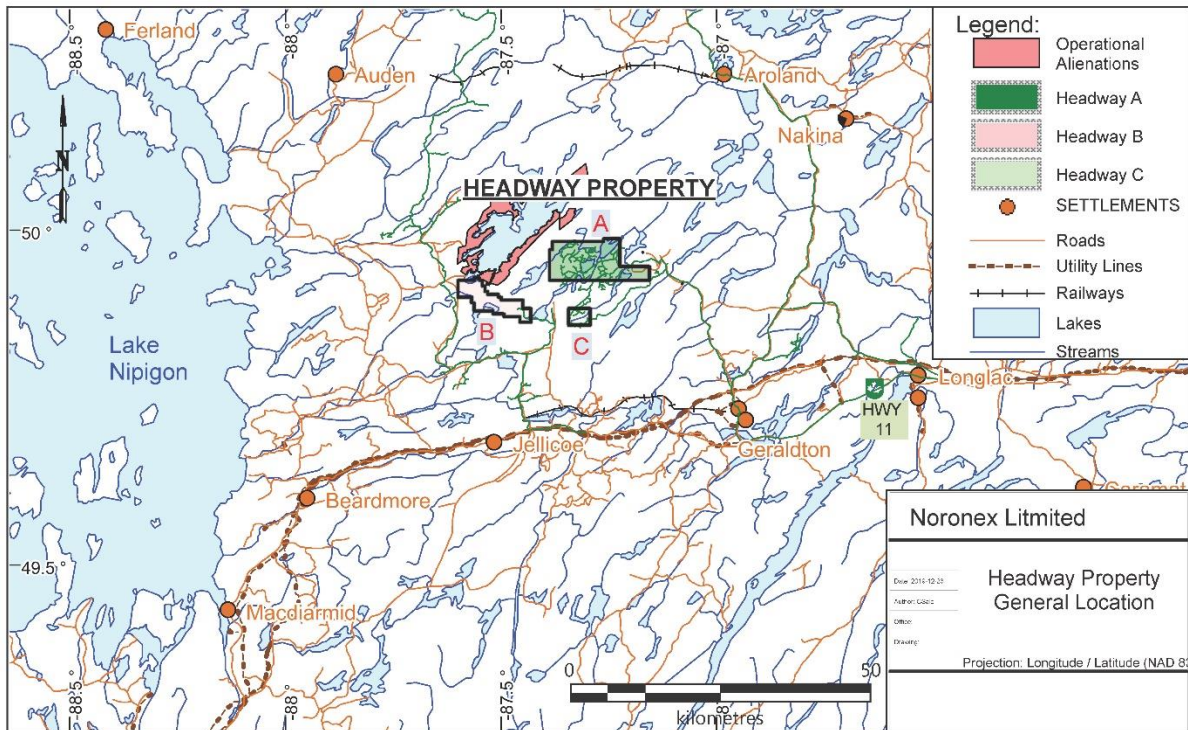


Figure 3: General Location

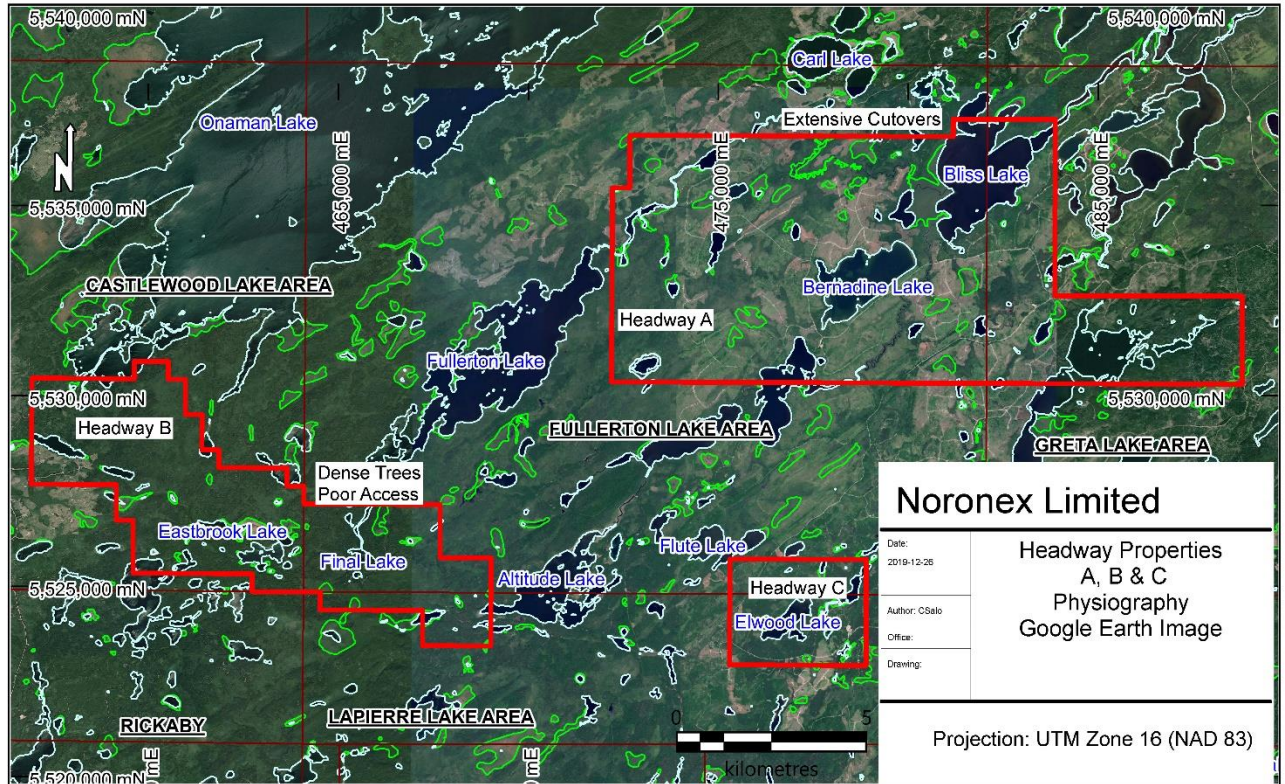


Figure 4: Physiography

#### 4. HISTORY

To date most previous work has been completed in Headway B. It should be assumed that the history of work is relating to the Headway B claim block unless explicitly stated.

1967: Noranda Exploration Co conducted a Magnetometer and Electromagnetic survey along a grid with lines cut at 400 ft intervals. These surveys indicated several narrow zones of high magnetic response. The overall trend indicated by these anomalies is approximately northwest-southeast.

1969: Canadian Nickel Co conducted a diamond drilling program consisting of two (2) drill holes totaling 345 ft (105m). No results were reported.

1970: Canadian Nickel Corp conducted a diamond drilling program consisting of 5 drill holes totaling 2499 ft (762m). No results reported.

1971: Hudson Bay Exploration & Dev Co Ltd conducted a diamond drilling program consisting of twelve (12) drill holes totaling 3530 ft (1076m) in the Castlewood Lake Township northeast of O'Neil Lake. No assays were reported in the drilling.

- 1972: Hudson Bay Exploration & Dev Co Ltd conducted two Electromagnetic surveys, one on Grid 'N' and the second on Grid 'M'. Grid 'N' comprised of 14 claims just west of Grasser Lake. The survey indicated a medium to strong conductive zone striking northwest-southeast across the claim group with the increased width of the conductor in place suggesting multiple parallel conductive bands. Changes in strike of the conductor suggest folding of the rock formations. Grid 'M' comprised 16 claims located around Eastbrook Lake. Results indicate a medium to strong conductive zone trending northwest-southeast across the property. The zone consists of three or more parallel conductive bands. Drilling a minimum of four (4) drill holes on each grid was suggested for follow up.
- 1972: Amax Exploration Inc conducted a diamond drilling program consisting of one (1) drill hole totaling 286 ft (87m). The drill hole is located at the southwestern end of Onaman Lake (Headway B). The suspected cause of the conductor was a graphitic horizon.
- 1973: Amax Exploration Inc drilling two (2) diamond drill holes in the Lapierre Lake area totaling 750 ft (229m). Drill holes were located west of Altitude Lake in the Headway B claim group. Both drill holes intersected zones of semi-massive pyrite-pyrrhotite stringers. No assays were reported.
- 1973: B.B.M. Investments Ltd. Conducted a diamond drilling program in the Fullerton Lake area consisting of two (2) drill holes totaling 274 ft (84m). Drill holes are located west of Final Lake. No assays were reported.
- 1973: Amax Exploration conducted a geological survey on four (4) claims called 'Onaman Group' and six (6) claims called the 'Altitude Group'. On the Onaman group geological mapping was carried out to ground truth AEM and ground EM conductors. The claims are located at the southern end of Onaman Lake. Due to amount of cover neither conductors could be explained through the survey.
- 1986: Hudson Bay Exploration & Dev Co conducted a VLF Electromagnetic Survey and Overburden sampling program of the 'Grasser Lake Claims' which consists of 42 claims southwest of Onaman Lake. A strong 800ft wide train of coarse gold particles crosses the west end of the grid and in a direction parallel to the regional ice flow direction originating up-ice of prominent pair of conductors previously considered a likely target.
- 1987: Hudson Bay Exploration & Dev Co conducted a stripping, channel sampling, and diamond drilling program on the 'Grasser Lake Claims' consisting of 42 claims southwest of Onaman Lake. Channel sampling of the conductive zone shows anomalous gold (165ppb over 34ft) in the vicinity of the main VLF electromagnetic conductor under and along the

- southwest shore of the southeast end of Grasser Lake with the strongest anomaly lying beneath the lake.
- 1988: Hudson Bay Exploration & Dev Co followed up the work completed in 1987 with a stripping and diamond drill program consisting of four (4) drill holes totaling 1140.7 ft (348m). The stripping of five (5) separate areas failed to intersect the conductive zone due to permitting restrictions. The first two holes near the south eastern end of Grasser Lake intersected zones of BIF and no gold values were obtained from either hole. The third and fourth drill holes further west along the shore of Grasser Lake intersected anomalous gold values (50ppb over 3ft) in sheared mafic rocks with quartz carbonate veining.
- 1990: L. Holt & T. Auger conducted a prospecting, trenching, and blasting program on the 'Final Lake' property. Sampling (7 grab samples, 10 trench samples) along the western shore of Final Lake returned anomalous Au (<0.03 oz/t), Cu (<0.04%), Ni, Pt/Pd values and locally Ag values up to 3.06 oz/ton. A gabbro grab sample from historic claim 907642 returned 0.044 oz/ton Pt and 0.026 oz/ton Pt, 0.003 oz/ton Pd. This claim was located east of Final Lake within new claim cell Id 285559.
- 1991: L. Holt & T. Auger conducted additional prospecting, trenching, and sampling in the 10 claims known as 'Final Lake', located at the southern end of Fullerton Lake. Prospecting in the western portion of the group returned anomalous to low values. Trenching was conducted in the southern portion of the claim group with eleven (11) trenches being completed. Channel Samples (15) returned anomalous values of Au(<0.09oz/t).
- 1999: L & M, Holt conducted a prospecting, trenching and stripping program on the 'Crooked Green Lake' property. No results were obtained for Pt/Pd but anomalous Au values (<617ppb) were obtained from other trenches. Sampling completed at Trench #6 located at the southern end of Fullerton Lake returned the highest values 38057ppb Au and 2746ppb Au.
- 2001: Spruce Ridge Resources conducted a stripping and trenching program on their 'Final Lake' project which consists of 22 claims, to follow up anomalous PGE values discovered by L. Holt. The project focused on the "East Pit", referred to in this report as "Ryan 1" zone. In total nine (9) trenches were completed with the most prospective values coming from Ryan 1 & 2 containing low Cu and Ni (up to 3610 ppm Cu and 25902 ppm Ni) with anomalous PGE's and Au. Ryan 1&2 trenches are located directly 1km west of Altitude Lake falling within claim 115379.
- 2002: Spruce Ridge Resources conducted line cutting, magnetic and VLF-EM surveys, and geological mapping on the 'Final Lake' Property. This was



- followed up by a program of stripping and trenching. The property comprised of 22 claims trending northwest from Altitude lake to Eastbrook Lake. The VLF-EM and magnetics survey were conducted on claims 124095 & 124096 located south east of Final Lake. Concluded that at least one, possibly two bodies of gabbro are on the property with numerous conductive zones that may be indicative of sulphide mineralization.
- 2008: Sage Gold Inc conducted helicopter-borne magnetic and Electromagnetic-VTEM surveys across 9 properties surrounding Onaman Lake. The 'Silhouette Lake' Property (Headway B) and Bernadine Lake property (Headway A). The Silhouette Lake block consisted of 14 claims. The majority of the conductors are within a belt of volcanic rocks that are described as "tholeiitic basalt and mafic volcanics: massive to pillowed flows, increasingly amphibolitic and schistose eastwards towards Onaman Lake; with iron formation".
- 2009: Sage Gold Inc (R., Therriault, 2009) completed a mapping, prospecting, stripping and channel sampling program on their Bernadine Lake property which consisted of 16 claims, this falls into the Headway A claim block. The program was successful in locating numerous outcrops that contained anomalous Pt, Pd, Cu, Ni, Co, Cr, Au, and Ag, as such future work recommended additional prospecting, stripping, and drilling programs pending results from the initial phases. Channel samples returned values between 0 to 0.13 g/t Au, 0.3 to 10.80 g/t Ag, 0.03 to 0.91 % Cu, 0.03 to 0.75 g/t Pt, and 0.10 to 2.65 g/t Pd. Sample 09RCB517 returned 0.11g/t Au, 0.76 g/t Ag, 0.16% Cu, 0.13% Ni, 0.75 g/t Pt, and 2.65g/t Pd.

## 5. GEOLOGICAL SETTING AND MINERALIZATION

### Regional Geology

Headway Block A; The follow description of the property geology is largely taken from Stott 2002. The regional geology is shown in Figure 5.

The Headway Block A claims are within the Onaman pluton which is comprised of tonalite to granodiorite gneiss: fine to medium grained, foliated to banded gneiss with late granite dikes and amphibole inclusions; east of Onaman Lake to Nakina and north of Longlac.

### Headway Block B (Ryan's Area)

This claim block cover a 2km wide belt of mafic volcanics of the Onaman Assemblage, trending WNW-ESE, between a broad area of intermediate

volcanics to the south and granitic rocks of the Onaman Lake batholith to the north. A number of sill and boss-like intrusions of gabbro occur within the mafic volcanic belt. The Onaman Assemblage (Ca. 2770-2780 Ma): The Onaman assemblage is limited in distribution, concentrated along the flank of the Onaman pluton. It is composed of low TiOs (<1%) tholeiitic basalt flows with trace element profiles analogous to a mix of ocean floor and primitive island arc affinities. The basaltic flows are massive to pillowed and interbedded with magnetite-chert, oxide iron formation. The sequence is overlain by Calc-alkalic, felsic metavolcanic unit of flow and pyroclastic rocks of the Elmhirst-Rickaby formation. The assemblage is the same age as the adjacent Onaman tonalite but was deposited during a period for which there is relatively little documented volcanic activity in the Superior Province of Ontario.

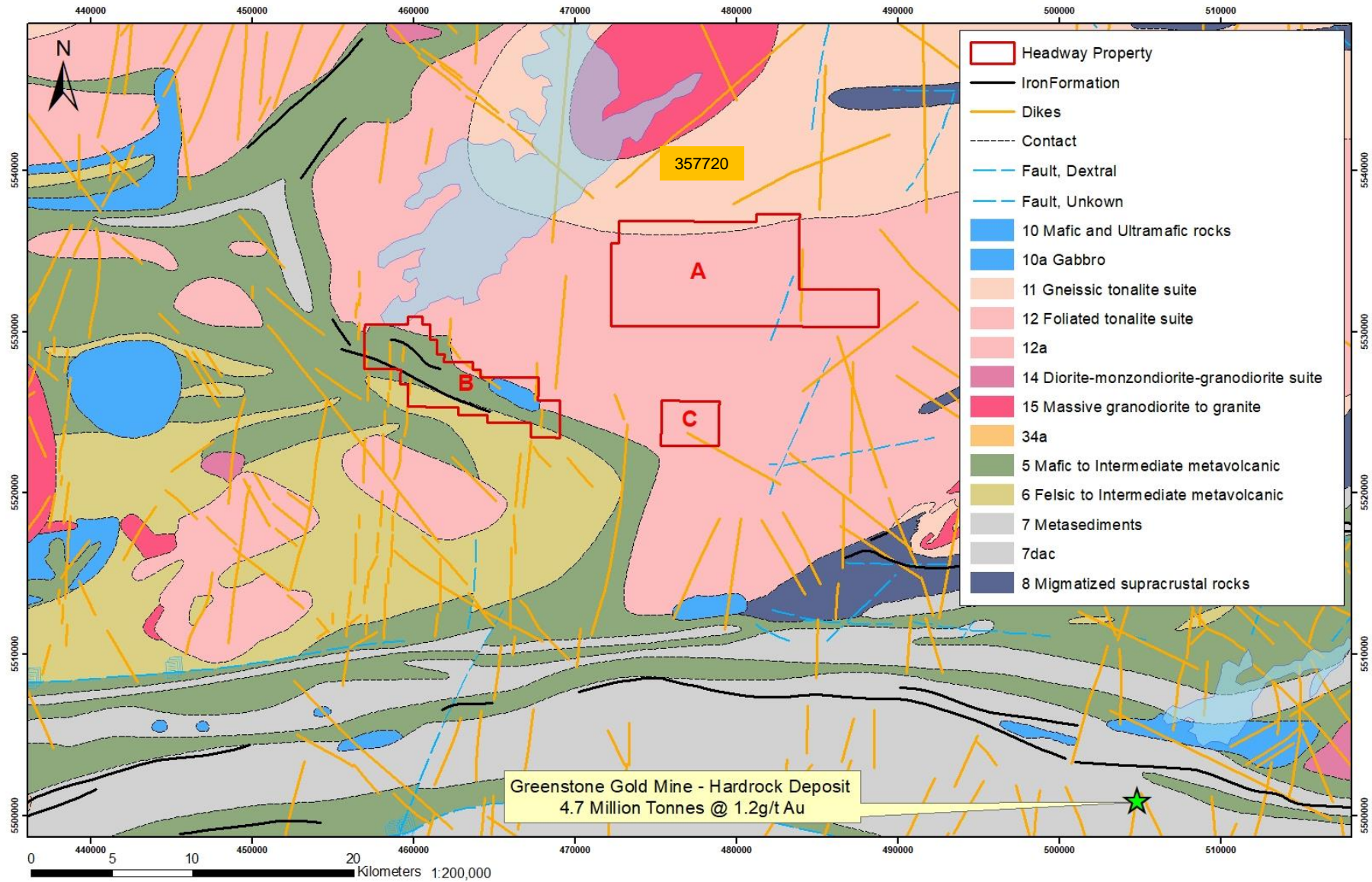


Figure 5: Regional Geology

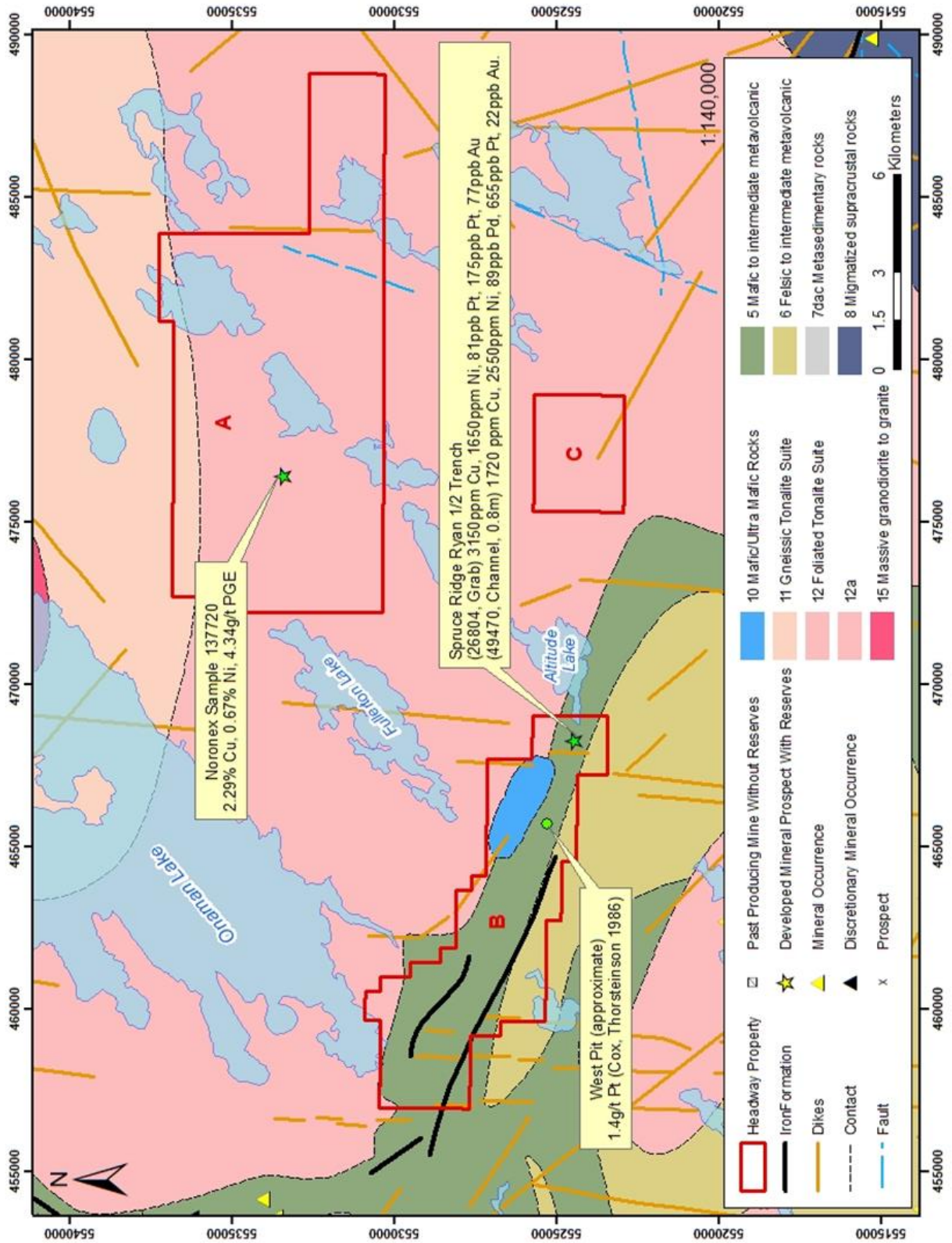


Figure 6 Compilation

## 6. PROPERTY GEOLOGY

Headway Block A; The following description of the property geology is largely taken from Therriault (2009). The property geology is shown in Figure 5.

The geology of the Headway Block A property is “homogenous in its heterogeneity”- a result of gneissification/migmatization processes, deformation, xenolith distribution and intrusion of multiple and texturally variable granites, pegmatites, aplites and mafic dykes. The vast majority of the property is underlain by biotite tonalite gneiss (Quartz-plagioclase-biotite +/- Kspar) which can vary significantly in texture and composition at the outcrop scale. Other early intrusive phases also appear to be present within the tonalite. It is possible these are melts derived from partial melting during the gneissification/migmatization processes that accompanied regional metamorphism. Consequently, the term biotite tonalite gneiss does not always apply; however, it has been used for simplicity given the heterogeneous nature of the early intrusive phase.

The biotite tonalite gneiss commonly contains xenoliths or rafts of ultramafic material that, from an outcrop perspective, can constitute anywhere from 0-100% of the rock, the ultramafic rafts are supracrustal, possibly of komatiitic origin. They have subsequently been recrystallized to a pyroxenite composed almost exclusively of coarse pyroxene crystals with lesser plagioclase and (alteration related) talc/serpentine and biotite/phlogopite. Magnetite-chromite bands are locally present. Less mafic xenoliths (gabbros and diorite) are also present throughout the property. Iron formation xenoliths have also been identified.

Crosscutting the early intrusive phase is a suite of granitoid, pegmatite and aplite dykes and plugs. Less common lithologies on the property include mafic dykes, diabase dykes and quartz veins.

The primary fabric on the property is the gneissosity within the biotite tonalite gneiss. In the central part of the property it is oriented approximately north-south while in the north it is more commonly east-west and northeast-southwest. Northwest fabric dominates in the southern part of the property. Change in the fabric's orientation are due to folding and fault block rotation. The main set of faults on the property trend northeast while mapped diabase dykes trend northwest.



Headway B/C; the following description of the property geology is largely taken from Jagodits (2009)

The block can be divided into three, northwest-southeast trending zones. Northeastern portion of the block is underlain by Onaman pluton rocks: “granodiorite to tonalite: medium to coarse grained, biotitic, locally quartz porphyritic”

There are two formations in the central portion of the block; the dominant formation is described as “tholeiitic basalt and mafic volcanic rocks: massive to pillowed flows, increasingly amphibolitic and schistose eastward towards Onaman Lake; with iron formation; oxide facies magnetite-chert interbedded with tholeiitic basalt. The second formation in the southeastern portion of the central block are described as Gabbroic rocks.

The southern portion of the property is underlain by “calc-alkaline basalt to andesite” Stott (2002)

## **7. MINERALIZATION**

### Headway A

Taken from Therriault 2009

“Mineralization on the property identified to date consists of elevated Pt-Pd-Cu-Ni-Co-Cr-Au-Ag values within ultramafic rocks. The primary sulphides consist of pyrite, pyrrhotite, chalcopyrite and pentlandite (?). All sulphides are typically fine grained occurring as disseminations or clots interstitial to pyroxene grains. The sulphides rarely constitute more than 5% of the rock, but locally, can form up to 20%. There is a direct association between sulphide-bearing ultramafics and anomalous metal contents. Local examples of semi-massive magnetite +/- chromite have also been observed within the ultramafic unit. These samples typically contain elevated Cr and Co in addition to the other metals mentioned earlier.

The mineralized zones can be up to several metres wide and continuous along strike for several 10's of metres in the limits of the stripped areas. Mineralization is hosted exclusively within the skarned and recrystallized ultramafic enclaves and their immediate hybridized border with the intrusive. All mineralized zones discovered to date have a north-south trend – a result of xenolith reorientation during gneissification.

Pyrite and pyrrhotite are also found within quartz veins throughout the property, however, they are not associated with elevated PGE, base or precious metal values.”

### Headway B

L.Holt & T, Auger (1990) conducted a prospecting, trenching, and blasting program on the 'Final Lake' property. Sampling along the western shore of Final Lake returned

anomalous Au, Cu, Ni, Pt/Pd values and locally Ag values up to 3.06 oz/ton. A gabbro grab sample from historic claim 907642 returned 0.044 oz/ton Pt and 0.026 oz/ton Pt, 0.003 oz/ton Pd. This claim was located east of Final Lake within new claim 285559

Taken from Bowdidge 2003

“Several of the old drill holes in the area of the Final Lake property refer to minor concentrations of chalcopyrite. Noranda’s 1967 geophysical report makes specific reference as to surface showings of nickel in the area of Final Lake, but does not describe them. The only confirmed occurrences to date of magmatic-hosted nickel-copper-PGE mineralization on the property are those in the “East Pit” and “West Pit”

The 2001 stripping program on the East Pit area by Spruce Ridge Resources Ltd resulted in the discovery of two distinct types of mineralization: (a) disseminated chalcopyrite-pyrrhotite in gabbro with low Cu values up to 3600ppm and Ni values up to 2600ppm. Associated PGE contents are anomalous (from 30 to 81 ppb Pt, from 96 to 183 ppb Pd and from 39 to 90 ppb Au); (b) semi-massive to locally pyritic material in a chloritic altered zone near the gabbro-mafic volcanic contact with up to 0.36% Cu, up to 0.35% Ni, up to 117ppb Pt, up to 1227 ppb Pd and up to 0.10 g/t Au.”

#### Ryan 1&2 Trench

Stripping has exposed two mineralized zones, referred to as the Ryan 1 and Ryan 2. The Ryan 1 Zone is exposed at the north side of the stripped area. It is exposed for a length of 15m, and has a maximum exposed width of 1.5m. Its full width is not exposed because the bedrock surface slopes steeply down under deep overburden, and both ends disappear under heavy cover. The zone strikes about 110 AZ. The rock is highly weathered, soft, dark green, fine-to medium pyrite> pyrrhotite> chalcopyrite> pentlandite(?). Nine grab samples were collected and analysed with the following results:

Cu varied from 310 to 3660 ppm, Ni from 1360 to 3450 ppm, Pt from 10 to 108 ppb, Pd from 150 to 1227 ppb and Au from 10 to 100 ppb. Four channels were cut with a diamond saw. Channel 1 gave an average of 1261 ppm Cu, 1966 ppm Ni, 80 ppb Pt, 380 ppb Pd and 27 ppb Au over 1.8 m (average of two sets of samples from duplicate cuts). Channel 2 gave an average of 1583 ppm Cu, 1660 ppm Ni, 92 ppb Pt, 284 ppb Pd and 45 ppb Au over 1.8m. Channel 3 gave an average of 1708 ppm Cu, 1348 ppm Ni, 102 ppb Pt, 152 ppb Pd and 14 ppb Au over 1.2 m. Channel 4 gave 1580 ppm Cu, 1990 ppm Ni, 99 ppb Pt, 293 ppb Pd and 14 ppb Au over 1.0m.

South of the Ryan 1 Zone is an area of complex geology, with several different phases of gabbro and diabase forming irregular dykes and variably shaped masses showing mutually intrusive contacts. This passes southwards into the Ryan 2 mineralized zone, which consists of a coarse-grained gabbro containing up to 5% disseminated chalcopyrite-pyrrhotite. Six grab samples were collected and analysed: They gave from 1530 to 3610 ppm Cu, from 890 to 2590 ppm Ni, from 30 to 81 ppb Pt, from 96 to 183

ppb Pd and from 39 to 90 ppb Au. The Ryan 2 mineralization has the appearance of primary magmatic sulphide mineralization. It is exposed over an area of 30 m by 25 m and disappears under overburden to the south and west.

## 8. 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 l’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)

## 9. EXPLORATION

Noronex crews visited the Headway Property in 2018 and took grab samples from the trenches uncovered in 2009 by Sage Gold. These trenches fall on claims 265438, 265437, and 133286. In total seven (7) grab samples were taken, see table below for assay values. See map 2 for locations.

**Table 1: Assay Results**

Sample No	Cu ppm	Cu %	Ni ppm	Cr ppm	Au_ppb	Pd_ppb	Pt_ppb
357719	1700		204	524			
<b>357720</b>	<b>&gt; 10000</b>	<b>2.29</b>	<b>6730</b>	<b>2090</b>	<b>224</b>	<b>3640</b>	<b>481</b>
357721	4120		1360	1220	48	608	131
357722	> 10000	1.05	1920	783	69	1480	335
357723	870		168	23	2	8	< 5
357724	1230		234	830	4	83	34
357725	5		5	6	7		

Logging roads and trails to and on the property were GPSed. The existing overgrown trail on Headway B was cleared to get access to the Ryan Trench by Bob Heilman and Cliff Hickman during the middle of July 2018. From July 26 to July 30, 2018 Cliff Hickman collected grab samples from the Ryan Trench of gabbro with sulphides. See Map 4.

When possible historical trenches and sampling were located on both Headway A and B and GPSed.

On the Headway A property prospecting was concentrated near the 2009 Sage trenches and showing (Sample 357720). Prospecting was carried out near these logging roads by Cliff Hickman and Bob Heilman in the months of May and July 2018. Additional prospecting occurred between these logging roads by Mick Stares during July 2018. See Map 2.

Bob Heilman from June 2 to June 5 did additional prospecting near the logging roads on the southwest part of Headway A to check out conductors. No outcrop was found.

## 10. INTERPRETATION AND CONCLUSIONS

Previous work on the property has confirmed the presence of anomalous precious and base metals across the Headway property which is contained within mafic to ultra-mafic rocks of the Onaman Assemblage.

The correlation between the magnetic domains outlined in Sage Golds 2009 Electromagnetic survey and Stott's geologic units is exemplary. The majority of the conductors are within the belt of volcanic rocks that are described as "tholeiitic basalt and mafic volcanic rocks: massive to pillowed flows, increasingly amphibolitic and schistose eastwards towards Onaman Lake; with iron formation". Conductors with direct correlation show the iron formations. Earlier exploration efforts in this belt encountered sulphides, including chalcopyrite and graphite. This falls within the Headway B block at the southern end on Onaman Lake.

Noronex has confirmed the presence of elevated PGE within the mafic/ultramafic bodies present on the Headway Property uncovered by Sage Gold in their 2009 program. From the airborne completed in 2009 there are numerous untested targets across the property. These targets should have a ground follow-up initially consisting of prospecting, mapping, and sampling of any mineralization. This should then be followed up with a phase of stripping, trenching, and channel sampling if prospective rocks are uncovered in the initial phase of prospecting.

The Property has undergone continued logging since the last work was performed, 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 new outcrop. New areas of bedrock exposure should be thoroughly mapped, prospected and any mineralization sampled. The new logging roads will allow for easier and quicker access to more locations on the Property.

## 11. 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/](http://www.geologyontario.mndm.gov.on.ca/)).

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## 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 practised 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: December 30, 2019

**Appendix A  
Claim List**

Noronex Claim Details

Tenure_num	Type	Status	Issue Date	Anniversary	Holder
115377	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
115379	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
115562	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
115563	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
115458	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
124921	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
124922	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
124904	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
124905	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
124906	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
124907	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
133285	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
133286	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
133288	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
133284	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
133344	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
133345	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
141404	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
141413	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
141414	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
141415	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151283	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151284	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151285	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151286	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151291	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151381	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151382	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
151383	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
153462	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
153498	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
153499	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
153575	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170083	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170084	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170085	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170086	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170087	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170088	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170150	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
170758	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
198842	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
198797	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
199405	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
199515	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
199525	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited



Noronex Claim Details

Tenure_num	Type	Status	Issue Date	Anniversary	Holder
199404	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
206802	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
206803	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
206836	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
207417	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
207537	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
207538	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
207548	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
207549	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
218921	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
218922	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
218923	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
219644	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
219645	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
219530	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
219531	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
218962	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
219534	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
219535	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226237	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226238	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226241	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226311	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226312	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226200	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226201	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226918	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226919	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
226925	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
265394	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
265395	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
265437	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
265438	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
265440	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
265441	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
266128	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
266129	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
266009	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
266010	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
266011	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
266013	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
272839	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
272840	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
272841	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
273434	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
273435	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited

Noronex Claim Details

Tenure_num	Type	Status	Issue Date	Anniversary	Holder
273436	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
272798	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285442	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285443	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285558	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285559	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285561	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285562	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285481	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285482	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
285484	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286195	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286196	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286197	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286205	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286206	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286214	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
286215	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303314	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303315	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303316	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303317	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303353	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303931	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
303932	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
304036	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
304037	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
304052	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320027	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320030	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320031	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320032	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320620	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320621	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
320627	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
319933	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
319934	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
322778	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
322787	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
322074	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
322075	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
321529	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
322154	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
333909	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
333910	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited
333911	Single Cell Mining Claim	Active	20180410	20200103	(100) Noronex Limited

























Noronex Claim Details

Tenure_num	Type	Status	Issue Date	Anniversary	Holder
533633	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited
533634	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited
533635	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited
533636	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited
533637	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited
533638	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited
533639	Single Cell Mining Claim	Active	20181019	20201019	(100) Noronex Limited

**Appendix B**  
**Sample Descriptions with Assays**

Appendix B  
Sample Descriptions with Assays

Sample No.	Description	Easting	Northing	Elevation	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt	Cu		
		Nad 83/Zone 16	Nad 83/Zone 16		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	ppb	
357719	Old 1m chan mafic ultra IF Intermix	476837.97	5534037.52	1137.55	43.1	7	>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	0.25	0.018	0.013	6.7	3	<1	2	<0.01	<20	<1	<2	<10	2	<10	1	2	3880	<5	<5			
357720	Old channel cut 4%po 1%cpy ultra Mafic	476826.78	5534272.94	1150.41	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	0.54	0.067	0.081	6.11	6	8	18	0.05	<20	7	<2	<10	51	<10	5	4	20	74	37	2.29		
357721	Old number 5603 10cm chip 5%po 2% cpy old channel	476667.13	5534142.21	1150.41	8.7	<0.5	>10000	455	13	6730	5	62	2.71	10	<10	13	<0.5	<2	0.82	443	2090	12.9	<10	3	0.08	<10	2.83	0.129	0.013	7.34	12	3	5	0.07	<20	17	<2	<10	62	<10	2	5	224	3640	481			
357722	Old channel cut 4%po 1%cpy ultra	476669.50	5534141.31	1148.47	1.1	<0.5	4120	545	1	1360	4	38	2.8	<2	<10	17	<0.5	<2	2.49	98	1220	5.48	<10	<1	0.17	<10	2.74	0.332	0.013	1.53	6	9	8	0.11	<20	2	<2	<10	70	<10	4	4	48	608	131			
357723	Old chan pod of ultra up to 1%po 1%cpy	476672.27	5534102.06	1155.44	9	7	>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	2.65	0.236	0.012	2.82	5	10	12	0.06	<20	2	<2	<10	59	<10	3	4	69	1480	335	1.05		
357724	Old trench rusty pod 5%py	476846.41	5534147.22	1141.05	0.7	<0.5	870	357	2	168	131	84	2.6	<2	<10	<10	<0.5	<2	2.31	114	23	10.7	10	1	<0.01	<10	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	Old trench tr cpy fuc py po meters wide	476817.46	5533789.77	1130.98	1	<0.5	1230	110	2	234	32	43	1.5	<2	<10	10	<0.5	<2	0.77	38	830	6.18	<10	<1	0.32	<10	0.5	0.054	0.012	5.02	4	8	6	0.13	<20	4	<2	<10	58	<10	7	5	4	83	34			
357657	Cliff old sam slightly sheared ultra mafic	476743.11	5533765.98	1120.48																																												



**Appendix C**  
**Assays 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, written over a horizontal line.

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

E-MAIL [Tbay@actlabs.com](mailto:Tbay@actlabs.com) ACTLABS GROUP WEBSITE [www.actlabs.com](http://www.actlabs.com)

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

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.

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
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

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



**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

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	

**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

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																						

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																					

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																	< 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)**

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 "Elitsa Hrischeva".

Elitsa Hrischeva, 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

E-MAIL [Tbay@actlabs.com](mailto:Tbay@actlabs.com) ACTLABS GROUP WEBSITE [www.actlabs.com](http://www.actlabs.com)

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			
357701			
357717			
357718			
357720		2.29	
357723		1.05	
357819			
357820			



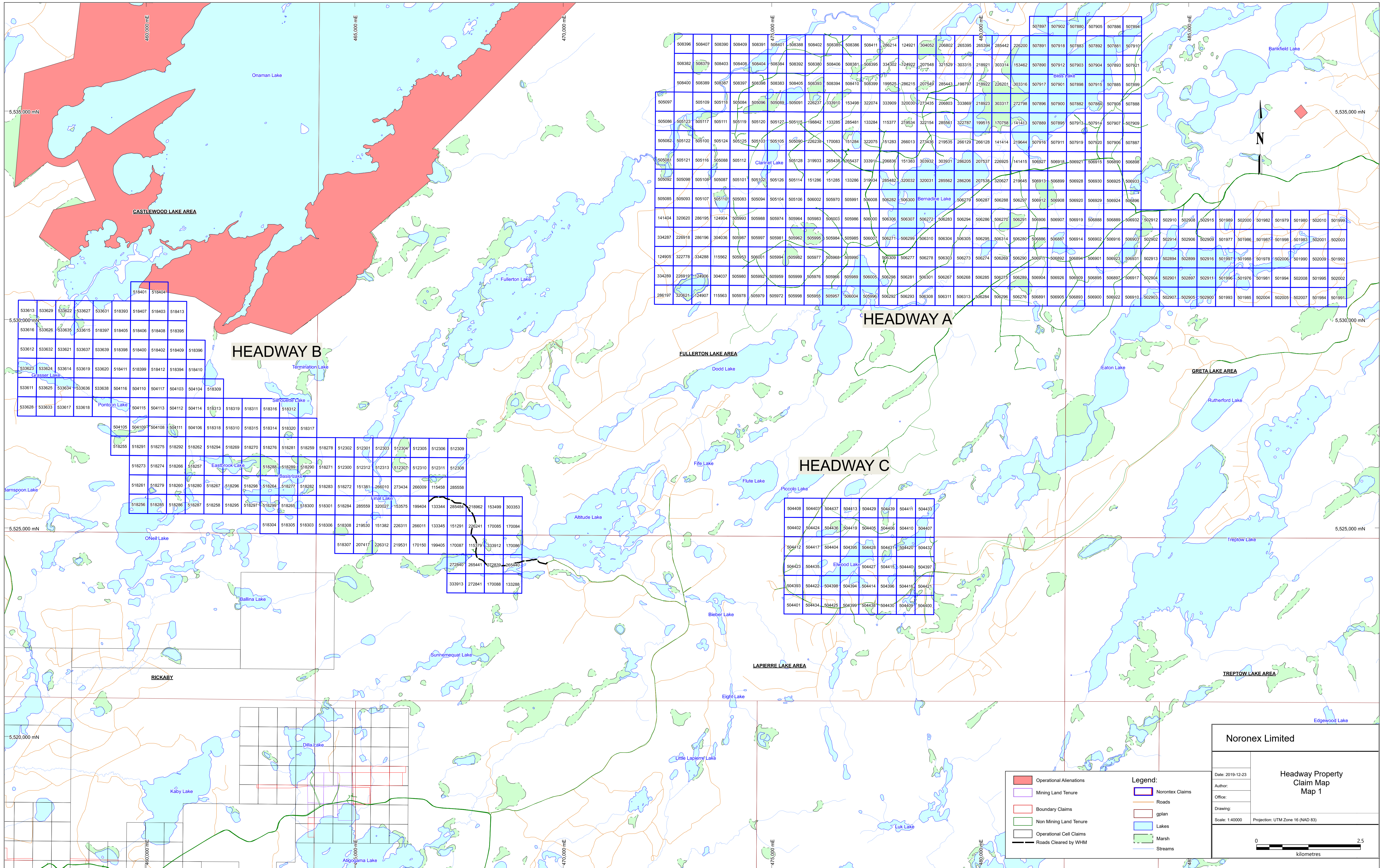
Analyte Symbol	Ag	Cu	Zn
Unit Symbol	ppm	%	%
Lower Limit	3	0.001	0.001
Method Code	ICP-OES	ICP-OES	ICP-OES
CZN-3 Meas	43	0.685	51.1
CZN-3 Cert	45	0.685	50.9
MP-1b Meas	50	3.10	16.9
MP-1b Cert	47	3.07	16.7
CCU-1d Meas	121	23.9	2.55
CCU-1d Cert	120.7	23.93	2.63
CPB-2 Meas		0.127	6.20
CPB-2 Cert		0.1213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

<b>Employee/Contractor</b>	<b>Activities</b>
Michael Stares	Compilation maps, traverses and sampling Headway A
Hickman Prospecting Services (Cliff Hickman)	GPS roads, Trails, sampling
Paul Nielsen (Paul Nielsen P.Geo Consulting)	Compilation Maps
Bob Heilman	GPS roads, Trails, sampling
Cathy Salo (Salo Geoscience)	GIS Compilation & Report

**Appendix E**  
**Map 1**





518401	518404												
533613	533629	533622	533627	533631	518393	518407	518403	518413					
533616	533626	533635	533615	518397	518405	518406	518408	518395					
533612	533632	533621	533637	533639	518398	518400	518402	518409	518396				
533623	533624	533614	533619	533620	518411	518399	518412	518394	518410				
533611	533625	533634	533636	533638	504116	504110	504117	504103	504104	518309			
533628	533633	533617	533618	Pontoon Lake	504115	504113	504112	504114	518313	518319	518311	518316	518312

**HEADWAY B**

504105	504109	504108	504111	504106	518318	518310	518315	518314	518320	518317										
518255	518291	518275	518292	518262	518294	518269	518270	518276	518281	518259	518278	512302	512301	512303	512304	512305	512306	512309		
518273	518274	518266	518257	Eastbrook Lake	518288	518289	518290	518271	512300	512312	512313	512307	512310	512311	512308					
518261	518279	518280	518280	518267	518296	518298	518264	518277	518282	518283	518272	151381	266010	273434	266009	115458	285558			
518256	518285	518286	518287	518258	518295	518297	518299	518265	518300	518301	518284	285559	320027	153575	199404	133344	285481	218962	153499	303353
518304	518305	518303	518306	518308	219530	151382	226311	266011	133345	151291	226241	170085	170084							
518307	207417	226312	219531	170150	199405	170087	115379	333912	170086											
272840	265441	272830	265440																	
333913	272841	170088	133288																	

**RICKABY**

508396	508407	508390	508409	508391	508401	508388	508402	508385	508386	508411	286214	124921	304052	206802	265395	265394	285442	226200	507891	507918	507883	507892	507881	507910												
508382	508379	508403	508408	508404	508394	508392	508390	508406	508381	508395	334302	124922	207548	321529	303315	218921	303314	153462	507890	507912	507903	507904	507893	507921												
508400	508389	508387	508397	508396	508383	508405	508393	508394	508410	508396	199525	286215	207549	285443	198770	218922	226201	303316	507917	507901	507908	507915	507885	507899												
505097	505109	505118	505084	505096	505089	505091	226237	333910	153498	322074	333909	322070	273435	206803	333869	218923	303317	272798	507896	507900	507882	507880	507908	507888												
505086	505123	505117	505111	505119	505120	505127	505115	198842	133285	285481	133284	115377	218934	322154	285561	322787	199515	170758	141413	507889	507895	507913	507914	507907	507909											
505082	505122	505100	505124	505125	505103	505105	505090	226238	170083	151284	322075	151283	266013	273436	219535	266129	266128	141414	219644	507916	507911	507919	507920	507906	507887											
505081	505121	505116	505088	505112	Clannet Lake	505128	319933	265438	265437	333911	206806	151383	303932	303931	286205	207537	226925	141415	506927	506918	506921	506915	506890	506898												
505092	505098	505108	505087	505101	505102	505126	505114	151286	151285	133286	319634	285482	320032	320031	285562	286206	207538	320927	219645	506913	506899	506928	506930	506925	506933											
505085	505093	505107	505110	505083	505094	505104	505106	506002	505970	505991	506008	506282	506300	Bernadine Lake	506279	506287	506288	506297	506612	506908	506920	506929	506924	506896												
141404	320620	288195	124904	505993	505988	505974	505964	505983	506003	505986	506000	506306	506307	506272	506283	506294	506286	506270	506291	506906	506907	506919	506888	506889	506932	502912	502910	502908	502915	501989	502000	501982	501979	501980	502010	501999
334287	226918	286196	304036	505987	505997	505981	505962	505995	505984	505985	506007	506271	506299	506310	506304	506305	506295	506314	506280	506886	506887	506914	506902	506916	506903	502902	502914	502906	502909	501977	501966	501987	501998	501983	502001	502003
124905	322778	334288	115562	505953	506001	505994	505982	505977	505968	505990	506309	506277	506278	506303	506273	506274	506269	506290	506911	506892	506894	506901	506623	506931	502913	502894	502899	502916	501997	501988	501978	502006	501990	502009	501992	
334289	226919	124906	304037	505980	505992	505959	505999	505976	505966	505989	506005	506299	506281	506301	506267	506288	506285	506275	506289	506904	506928	506909	506895	506897	506917	502904	502901	502897	502911	501996	501976	501981	501994	502008	501995	502002
286197	320621	124907	115563	505978	505979	505972	505998	505955	505957	506004	505996	506292	506293	506308	506311	506313	506284	506296	506276	506891	506905	506893	506900	506922	506910	502903	502907	502905	502900	501993	501985	502004	502005	502007	501984	501991

**HEADWAY A**

**HEADWAY C**

504408	504403	504437	504413	504429	504439	504411	504433
504402	504424	504436	504419	504405	504406	504410	504407
504412	504417	504404	504395	504428	504431	504420	504432
504423	504435	Elwood Lake	504427	504415	504440	504397	
504393	504425	504398	504394	504414	504396	504416	504421
504401	504434	504425	504399	504438	504430	504409	504400

**LAPIERRE LAKE AREA**

**Noronex Limited**

Date: 2019-12-23  
 Author:  
 Office:  
 Drawing:  
 Scale: 1:40000  
 Projection: UTM Zone 16 (NAD 83)

**Headway Property Claim Map 1**

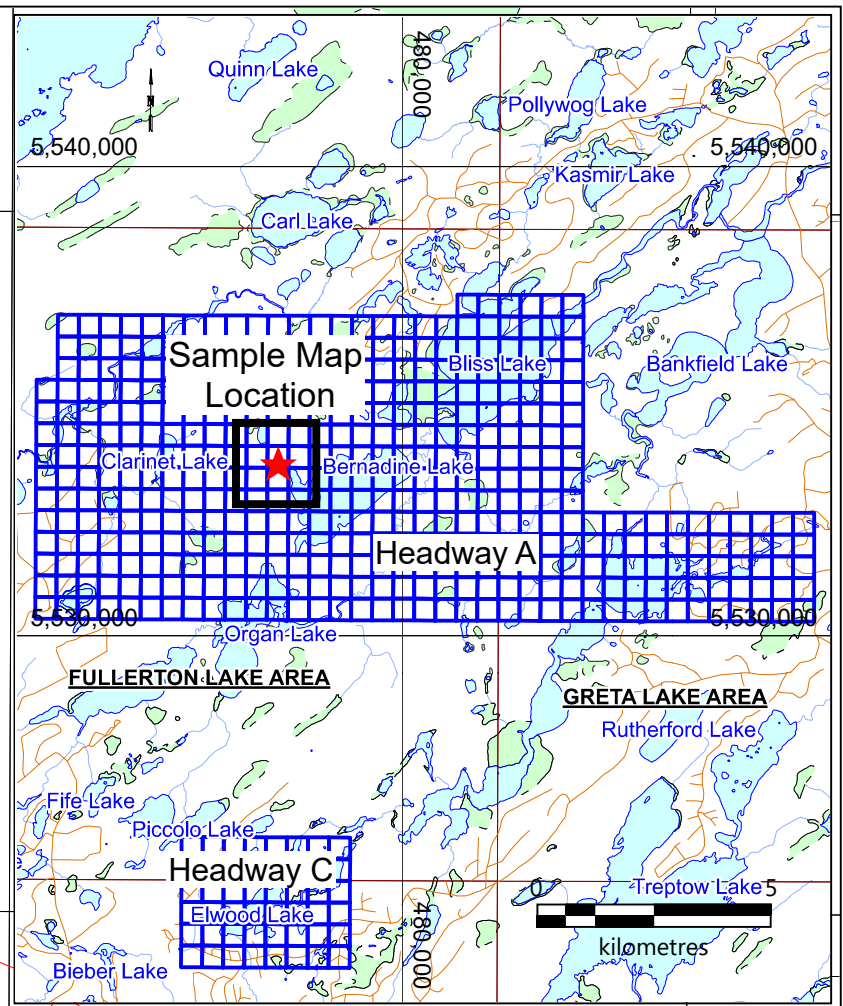
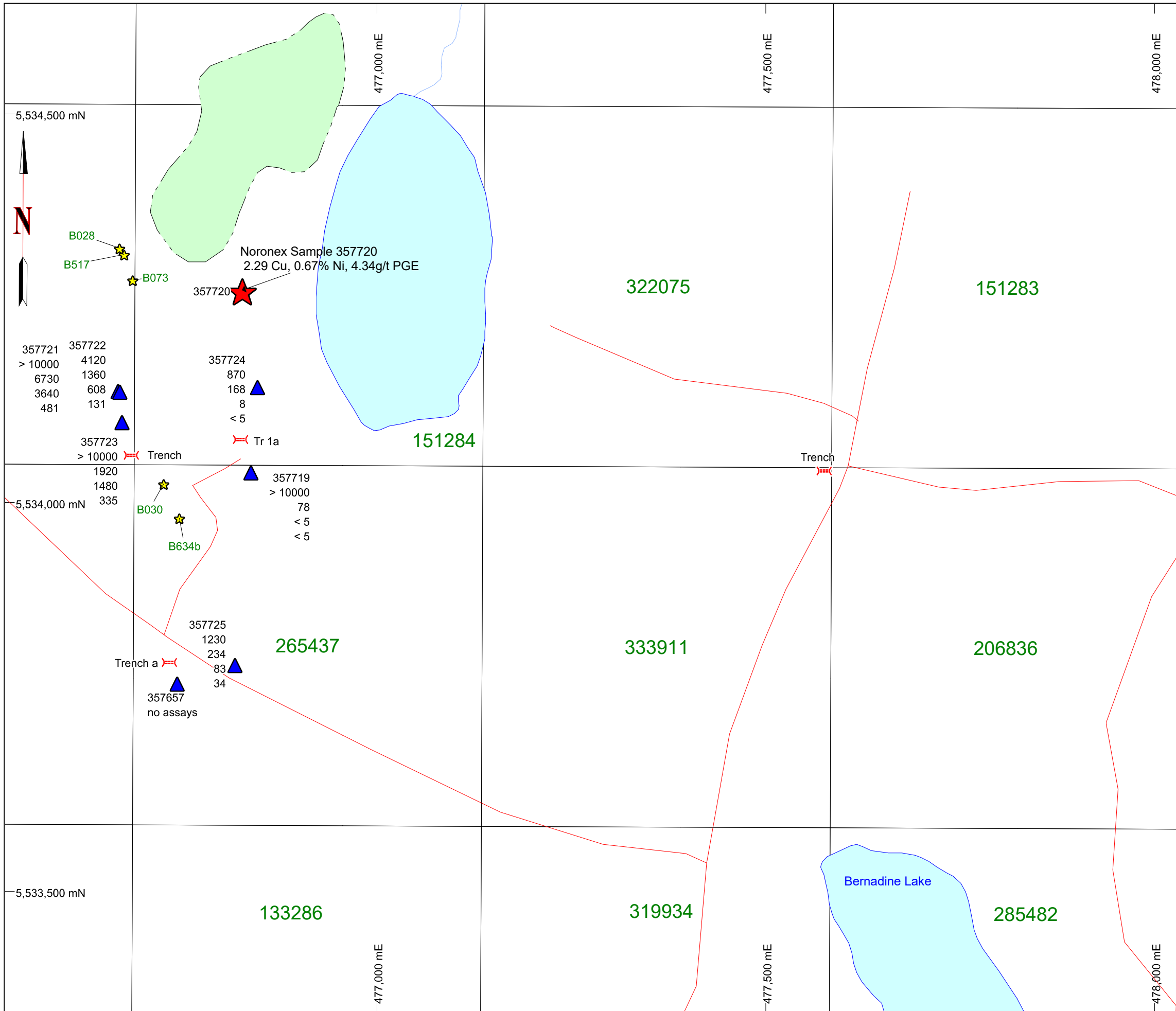
0 2.5 kilometres

**Legend:**

- Operational Alienations
- Mining Land Tenure
- Boundary Claims
- Non Mining Land Tenure
- Operational Cell Claims
- Roads Cleared by WHM
- Noronex Claims
- Roads
- gplan
- Lakes
- Marsh
- Streams



**Appendix F**  
**Map 2**



**Legend**

- ▲ Sample Locations -2018  
Cu ppm, Ni ppm, Pd ppb, Pt ppb
- Historical Trenches
- Streams
- Roads
- Lakes
- Marsh
- Operational Cell Claims
- ★ Showing
- ☆ Historical Samples 09RC

**Noronex Limited**

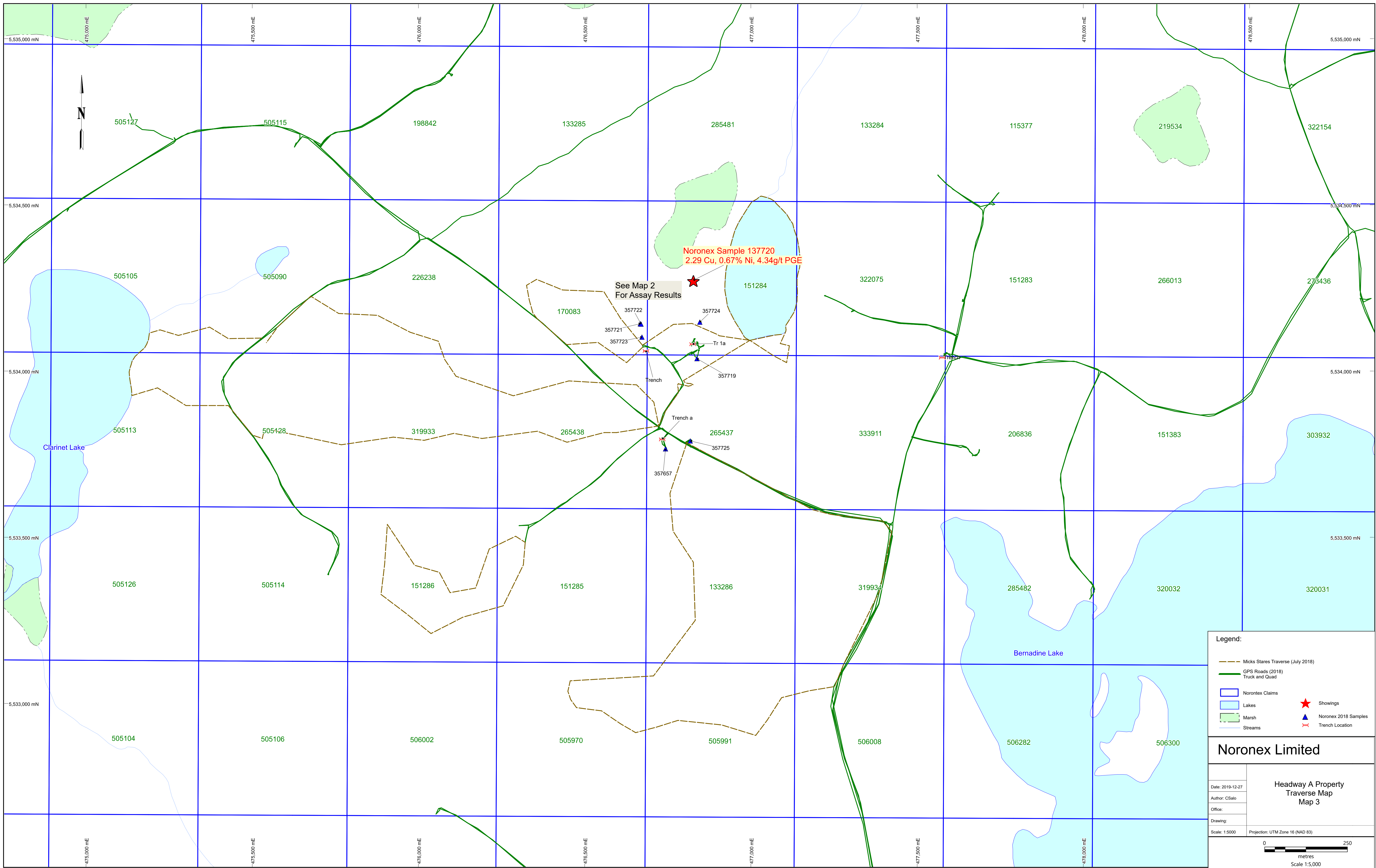
**Headway A Property  
2018 Sample Locations and  
Assays  
Map 2**

Date: 2019-12-26  
 Author: CSalo  
 Office:  
 Drawing:  
 Scale: 1:5000  
 Projection: UTM Zone 16 (NAD 83)

0 250 metres

**Appendix G**  
**Map 3**





**Legend:**

- Micks Stares Traverse (July 2018)
- GPS Roads (2018) Truck and Quad
- Norontex Claims
- Lakes
- Marsh
- Streams
- Showings
- Noronex 2018 Samples
- Trench Location

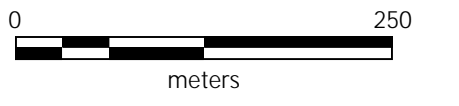
**Noronex Limited**

**Headway A Property Traverse Map Map 3**

Date: 2019-12-27  
 Author: CSalo  
 Office:  
 Drawing:  
 Scale: 1:5000  
 Projection: UTM Zone 16 (NAD 83)

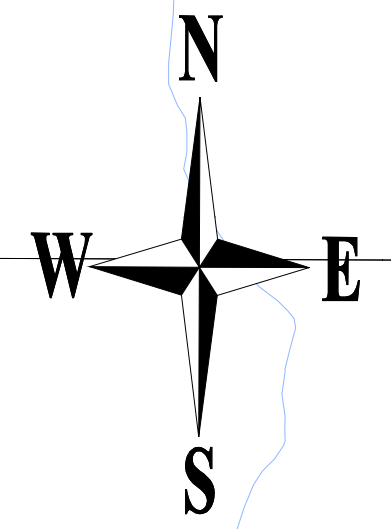
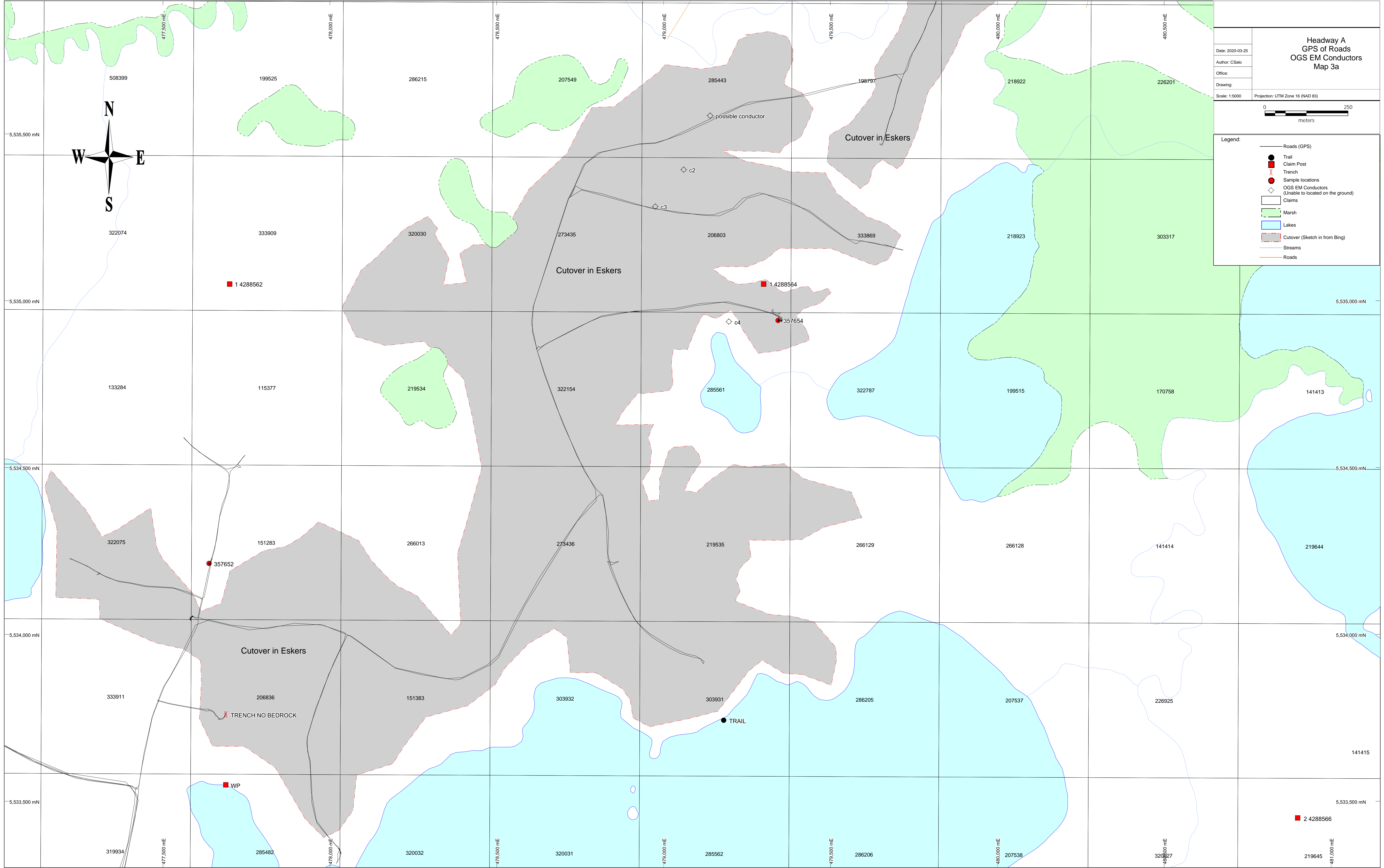
0 250 metres  
 Scale 1:5,000

**Headway A**  
**GPS of Roads**  
**OGS EM Conductors**  
**Map 3a**



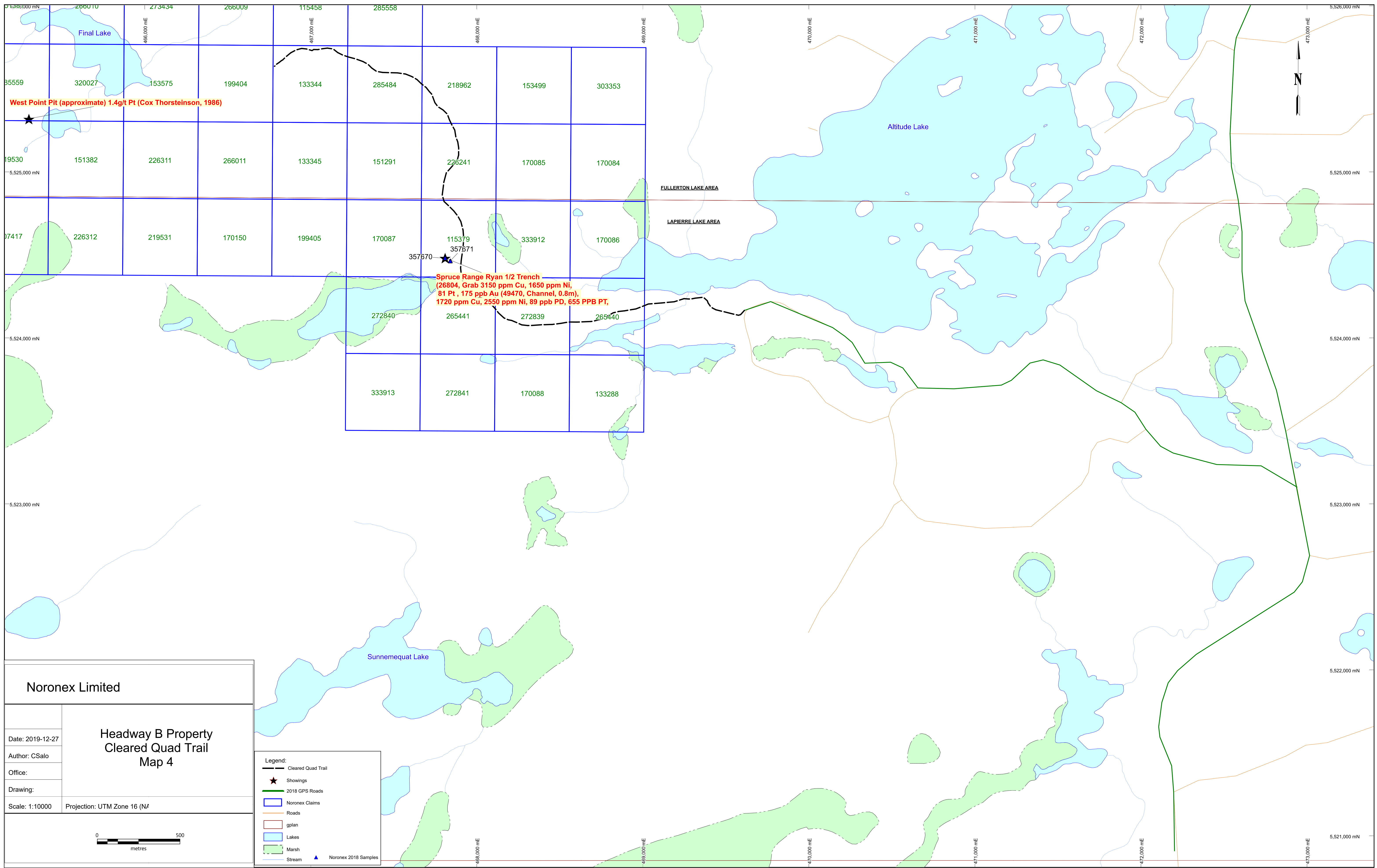
**Legend:**

- Roads (GPS)
- Trail
- Claim Post
- Trench
- Sample locations
- OGS EM Conductors (Unable to located on the ground)
- Claims
- Marsh
- Lakes
- Cutover (Sketch in from Bing)
- Streams
- Roads



**Appendix H**  
**Map 4**





West Point Pit (approximate) 1.4g/t Pt (Cox Thorsteinson, 1986)

Spruce Range Ryan 1/2 Trench  
 (26804, Grab 3150 ppm Cu, 1650 ppm Ni,  
 81 Pt, 175 ppb Au (49470, Channel, 0.8m),  
 1720 ppm Cu, 2550 ppm Ni, 89 ppb PD, 655 PPB PT,

**Noronex Limited**

**Headway B Property  
 Cleared Quad Trail  
 Map 4**

Date: 2019-12-27  
 Author: CSalo  
 Office:  
 Drawing:  
 Scale: 1:10000    Projection: UTM Zone 16 (N)

0    500  
 metres

**Legend:**

- Cleared Quad Trail
- Showings
- 2018 GPS Roads
- Noronex Claims
- Roads
- gplan
- Lakes
- Marsh
- Stream
- Noronex 2018 Samples





Cliff Hickman May 23 to July 30, 2018

Mon.	Day	Name	Activity Summary	Vehicles/boats/	equip./Rentals
May	23	Headway A	Setup Camp		
	24	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	25	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	26	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	27	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	28	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	29	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	30	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	31	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
June	1	Headway A	Quad in Roads and grabs	Truck/Quad	Camp
	2	Headway A	Quad in Roads and grabs	Truck/Quad	Camp
	3	Headway A	Quad in Roads and grabs	Truck/Quad	Camp
	4	Headway A	Quad in Roads and grabs	Truck/Quad	Camp
	5	Headway A	Quad in Roads and grabs	Truck/Quad	Camp
July	5	Headway A		Truck/Quad	Camp
	6	Headway A		Truck/Quad	Camp
	7	Headway A		Truck/Quad	Camp
	8	Headway A		Truck/Quad	Camp
	9	Headway A/Kupher		Truck/Quad	Camp
	10	Kupher		Truck/Quad	Camp
	11	Kupher		Truck/Quad	Camp
	12	Kupher		Truck/Quad	Camp
	13	off		Truck/Quad	Camp
	14	Headway B	Looking for access to Showing	Truck/Quad	Camp
	15	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	16	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	17	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	18	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	19	Headway B		truck	Camp
July	26	Headway B	Propsecting and samples/no assays	Truck/Quad	Camp
	27	Headway B	Propsecting and samples/no assays	truck	Camp
	28	Headway B	Propsecting and samples/no assays	Truck	Camp
	29	Headway B	Propsecting and samples/no assays	Truck	
	30	Headway B	Propsecting and samples/no assays- Clean Camp site	Truck	







Cliff Hickman May 23 to July 30, 2018

Mon.	Day	Name	Activity Summary	Vehicles/boats	equip./Rentals
May	23	Headway A	Setup Camp		
	24	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	25	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	26	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	27	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	28	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	29	Headway A	Walked in to located showing not found	Truck/Quad	Camp
	30	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
	31	Headway A	Traverse near Showing, Grabs	Truck/Quad	Camp
June	1	Headway A	Quad in Roads walk cutover, trench no bedrock	Truck/Quad	Camp
	2	Headway A	Quad in Roads walk cutover in eskers + 30m OV	Truck/Quad	Camp
	3	Headway A	Quad in Roads walk cutover in eskers + 30m OV	Truck/Quad	Camp
	4	Headway A	Quad in Roads walk cutover in eskers + 30m OV	Truck/Quad	Camp
	5	Headway A	Quad in Roads walk cutover in eskers + 30m OV	Truck/Quad	Camp
July	5	Headway A	revisit trenches	Truck/Quad	Camp
	6	Headway A		Truck/Quad	Camp
	7	Headway A		Truck/Quad	Camp
	8	Headway A		Truck/Quad	Camp
	9	Headway A/Kupher		Truck/Quad	Camp
	14	Headway B	Looking for access to Showing	Truck/Quad	Camp
	15	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	16	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	17	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	18	Headway B	Clean out overgrown trails	Truck/Quad	Camp
	19	Headway B		truck	Camp
July	26	Headway B	Propsecting and samples/no assays	Truck/Quad	Camp
	27	Headway B	Propsecting and samples/no assays	truck	Camp
	28	Headway B	Propsecting and samples/no assays	Truck	Camp
	29	Headway B	Propsecting and samples/no assays	Truck	
	30	Headway B	Propsecting and samples/no assays- Clean Camp site	Truck	