

MAYO LAKE MINERALS INC.
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K0A 1L0

Assessment Report

Describing the

2017 Geochemical Soil Sampling Program

on the Edmonton Claim Group

105M/10, 15

Latitude 63° 44' 32" N, Longitude 134° 45' 26" W

In the

Mayo Mining District,

Yukon Territory

By

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*Including soil sample analysis by FA in 2018 to determine relative accuracy of analytical techniques.

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Introduction

Mayo Lake Minerals Inc. (“MLM”) owns five claim groups situated around Mayo Lake in the Yukon Territory: Anderson-Davidson, Carlin-Roop, Trail-Minto, Cascade, and Edmonton claim groups (Figure 1). The claim groups either host, or are the apparent source for, extensive historical placer gold operations indicating contained bedrock gold sources. The Keno Hill Mining Camp is located about 20 km. north of Mayo Lake and has produced over 260 million ounces of silver from veins cutting Mississippian quartzite and schist. It is located in the northeastern portion of the Tintina Gold Belt, a 2100 km long zone with gold and silver deposits extending across central Alaska and Yukon. Nearby deposits include intrusion-related gold at Dublin Gulch (6.4Moz Au), Red Mountain (1.3Moz Au) and a VMS (Au, Ag, Cu, Pb, and Zn) deposit at Marge. The Victoria Gold’s Eagle Deposit at Dublin Gulch was put into production in late 2019.

This report describes a geochemical soil sampling program with analysis by ICP-MS after aqua regia digestion program on the Edmonton claim group (the “Property”) completed during 2017, plus reanalysis of samples by a fire assay procedure in 2018 and the interpretation of the results in concert with airborne magnetics and Quaternary geology. Parts of this report, where appropriate, are taken verbatim from Sutherland and Rampton further interpretation of the 2012, 2014 and 2016.

Field work in 2017 was completed by Tyrell Sutherland, Richard Barrie and Jeff Moore working under contract to MLM. Soils from 96 sites were sampled and analyzed for 37 elements by ICP-MS (Bureau Veritas preparation AQ251) and later by fire assay (FA) for gold (Bureau Veritas preparation FA430). The samples were prepared by Bureau Veritas in Whitehorse and then analyzed in Vancouver B.C. Interpretation was jointly completed by Sutherland and Rampton.

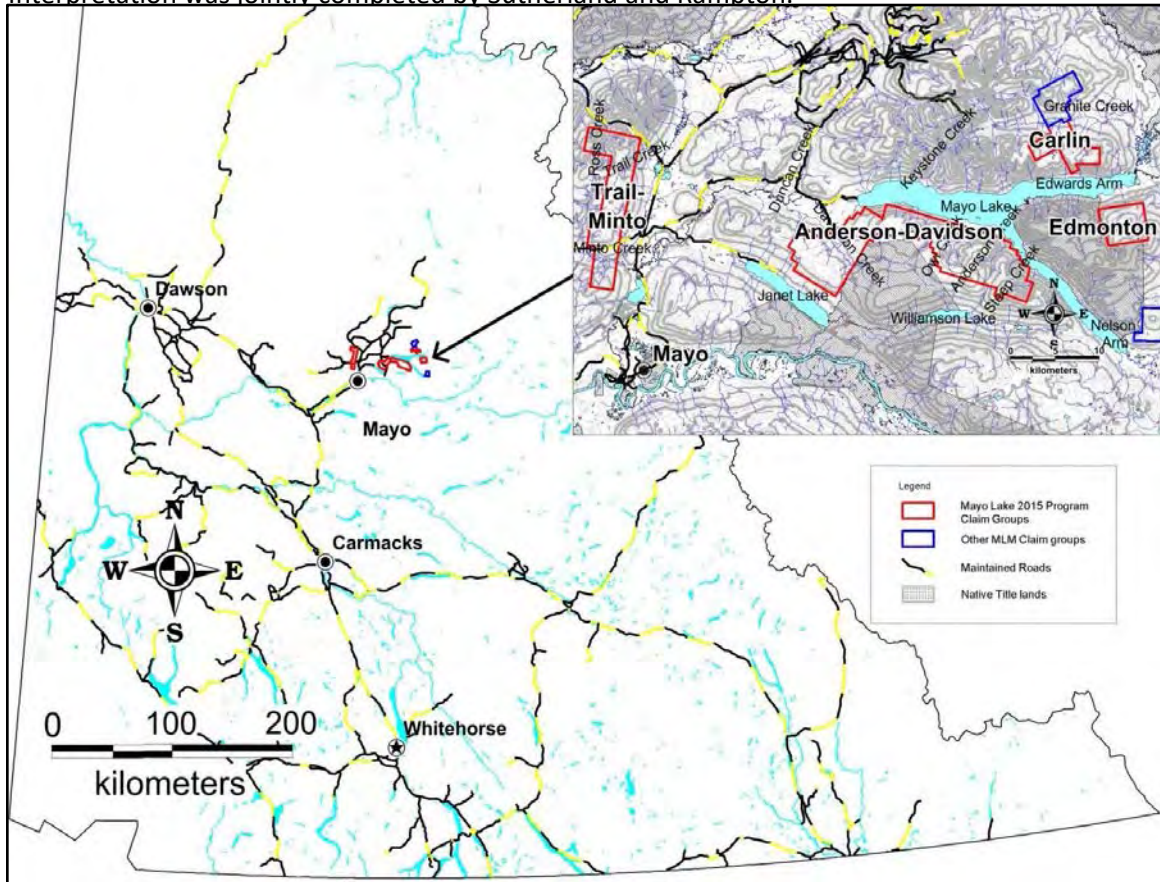


Figure 1: Location of MLM’s Claims

Location and Access

The Property investigated in 2017 consists of 95 claims (Table 1) totaling 19 sq. km. in area. The Property is located about 50 kilometers east northeast of Mayo as the crow flies on NTS map sheets 105M/10 and 15. The claims are registered in the Mayo Mining district under the name of Mayo Lake Minerals Inc. and are listed in Table 1 below with their location shown on Figure 2.

Access to the Property is presently via Mayo Lake, which can be accessed by government- maintained gravel roads connecting to the Silver Trail highway. The Silver Trail in turn connects with the Yukon's paved or chip-sealed highway network at Mayo (Figure 1). Access to the Property from Mayo Lake is then by boat or ice to the south shore of Edwards Arm. Ultimately, it can be accessed by helicopter from the helicopter base at the Mayo airport some 50 kms to the west of the Property.

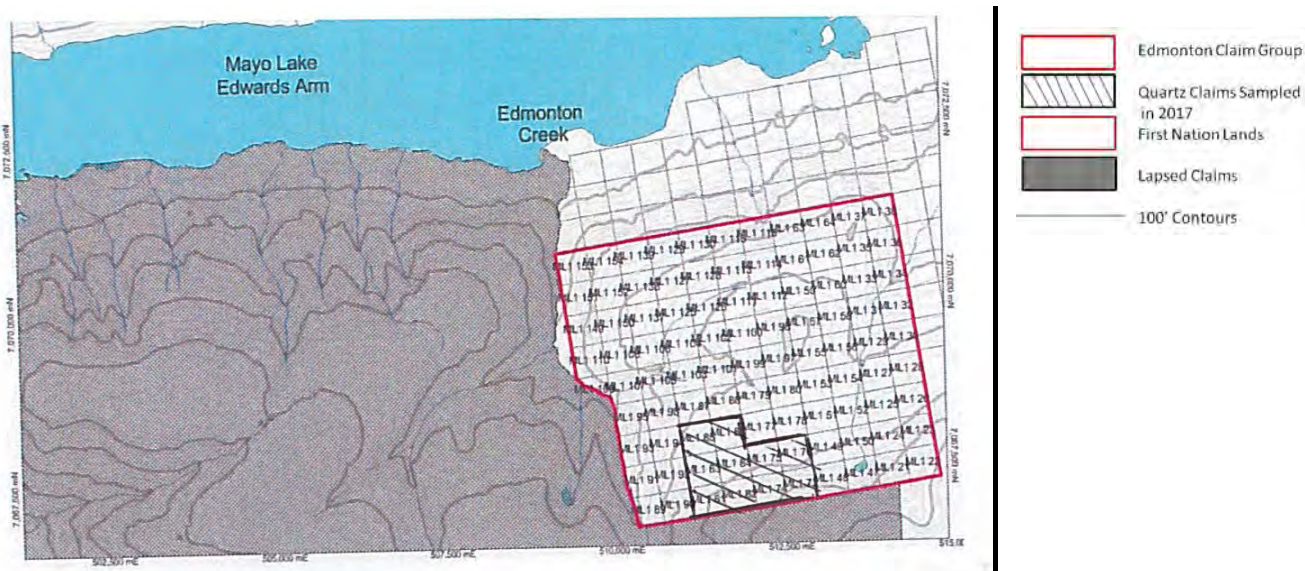


Figure 2. Location of claims within Edmonton and those sampled in 2017

Table 1: Claims comprising Edmonton Claim Group as at December 31, 2019

Grant number	Claim Name	Map sheet	Group Name
YD05498-YD05500	ML1 137-ML1 139	105M15	Edmonton
YD28661-YD28676	ML1 101-ML1 116	105M15, 105M10	Edmonton
YD28685-YD28690	ML1 125-ML1 130	105M15	Edmonton
YD63794	ML1 154	105M15	Edmonton
YD63795-YD63799	ML1 149-ML1 153	105M15	Edmonton
YE25621-YE25638	ML1 21-ML1 38	105M15, 105M10	Edmonton
YE25647-YE25664	ML1 47-ML1 64	105M15, 105M10	Edmonton
YE25673-YE25700	ML1 73-ML1 100	105M15, 105M10	Edmonton

Previous Work

The earliest regional mapping in the Mayo Lake area was undertaken by H.S Bostock in 1947. Early work by Bostock was followed from 1952 to 1965 by numerous workers who published geological maps; these included L.H Green et.al (1972), R.W Boyle (1964), and E.D Kindle (1962) with contributions by C.F Gleeson (Boyle 1964). Mapping was reinitiated in the early 1992 by J.A Hunt et al. (1996), D.C. Murphy et al. (1996) and C.F Roots (1997); in addition to fieldwork they integrated numerous geological publications dating from 1920 to 1996. Roots' work resulted in a regional map at 1:250,000 scale (Roots 1997). Surficial mapping was undertaken by Hughes (1983) in 1964 and 1979 and more recently by Bond (1999).

There is evidence for historic placer mining on most of the tributaries to Mayo Lake and the Mayo River, including the lower parts of Edmonton and Edwards creeks.

In 1996 Arivaca Exploration Ltd. performed an airborne EM survey, following the release of heavy metal data from Operation Keno. This survey located five conductors along Edmonton Creek, (McIntyre 1966) however follow up geochemical work was sparse with only 14 soil samples taken above a single conductor. Soils were assayed for Ag, Pb and Zn, though none were anomalous for these metals (Lee 1966).

Operation Keno headed by Dr. C.F. Gleeson of The Geological Survey of Canada ("GSC") was completed in 1968 (Gleeson et al 1965-1968, Gleeson 1980a, Gleeson 1980b). It centered on Keno Hill and consisted of stream sediment, water, heavy-mineral and litho-geochemistry programs. Notably creeks draining in to Mayo Lake were sampled (Figure 3), yielding numerous arsenic, antimony and gold in heavy mineral concentrate anomalies. The area within, and adjacent to, the Properties were again sampled during a stream sediment program by the GSC in 1986-87 (Hornbrook 1987) with a low sampling density that yielded few anomalies.

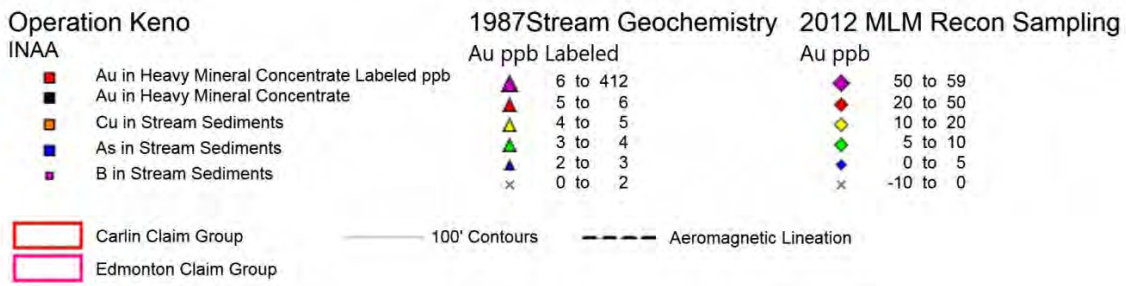
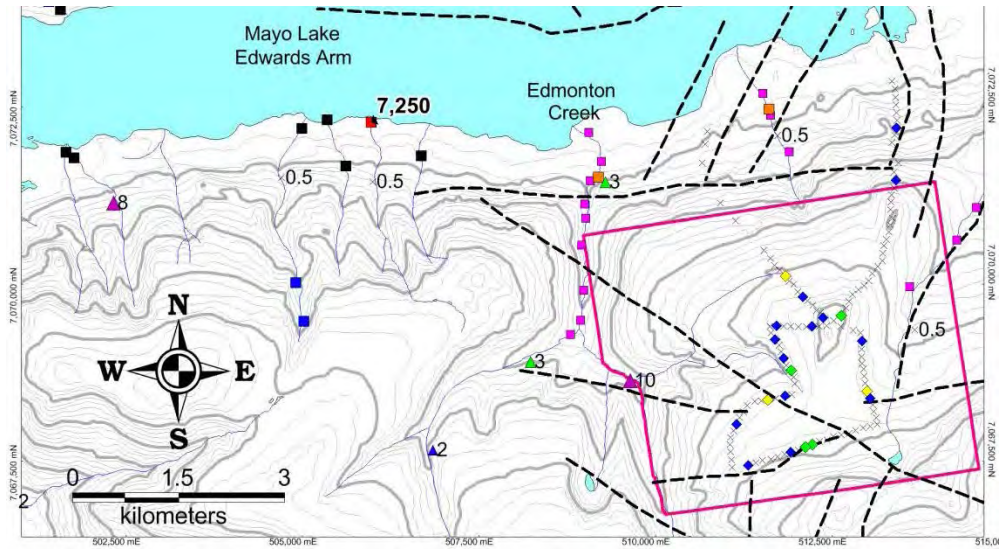


Figure 3. Geochemi8cal soil and stream sediment sampling prior to 201 by Operation Keno and MLM.

The GSC carried out two geophysical programs in the Mayo Lake area; the first at 1207m spacing in 1968 and a second at 2000m spacing in 1990. These surveys were corroborated by similar results obtained by MLM’s geophysical program, which had much higher resolution. These surveys delineate the Robert Service Thrust (“RST”) and several major lineations likely representing thrust sheet imbrications or lithological marker horizons on and adjacent to the Property. In 2012 MLM completed a ridge and spur type (transects) reconnaissance soil sampling program on the Property; 121 soil samples were collected on the Property. A large oblong polymetallic anomaly, Anomaly F, with values as high as 346ppm As, 1.4ppm Sb and 16ppb Au were noted was located above Edmonton Creek and is likely the source of placer gold that was extracted from the creek in the past; also responsible for elevated values in a nearby tributary of Edwards Creek. Earlier stream sediment taken by the GSC from Edmonton Creek yielded anomalously high boron values, some of the highest in the Keno Area (Figure 4).

In 2012 MLM also had an airborne geophysical survey flown over the Properties between February and March by Precision GeoSurveys Inc. that saw the acquisition of high quality magnetic data. MLM’s properties were flown using a Bell 206 BIII jet ranger at 150 meter spacing. The average survey flight was 32 meters above ground. The survey data

acquisition specifications and coordinates for the different claim groups can be found in Rampton and Sutherland (2012 a, b, c, d and e). Dominant lineations are plotted on Figure 3. A large oblong mag low measuring 4 km by 2 km was also noted on southern edge of Edmonton (Figure 5). Figure 5 also shows the presence of more lineations marking linear mag anomalies or unconformities in magnetic patterns. The strongly developed magnetic lineations outside the large oblong mag lows likely indicate deformation of brittle rock.

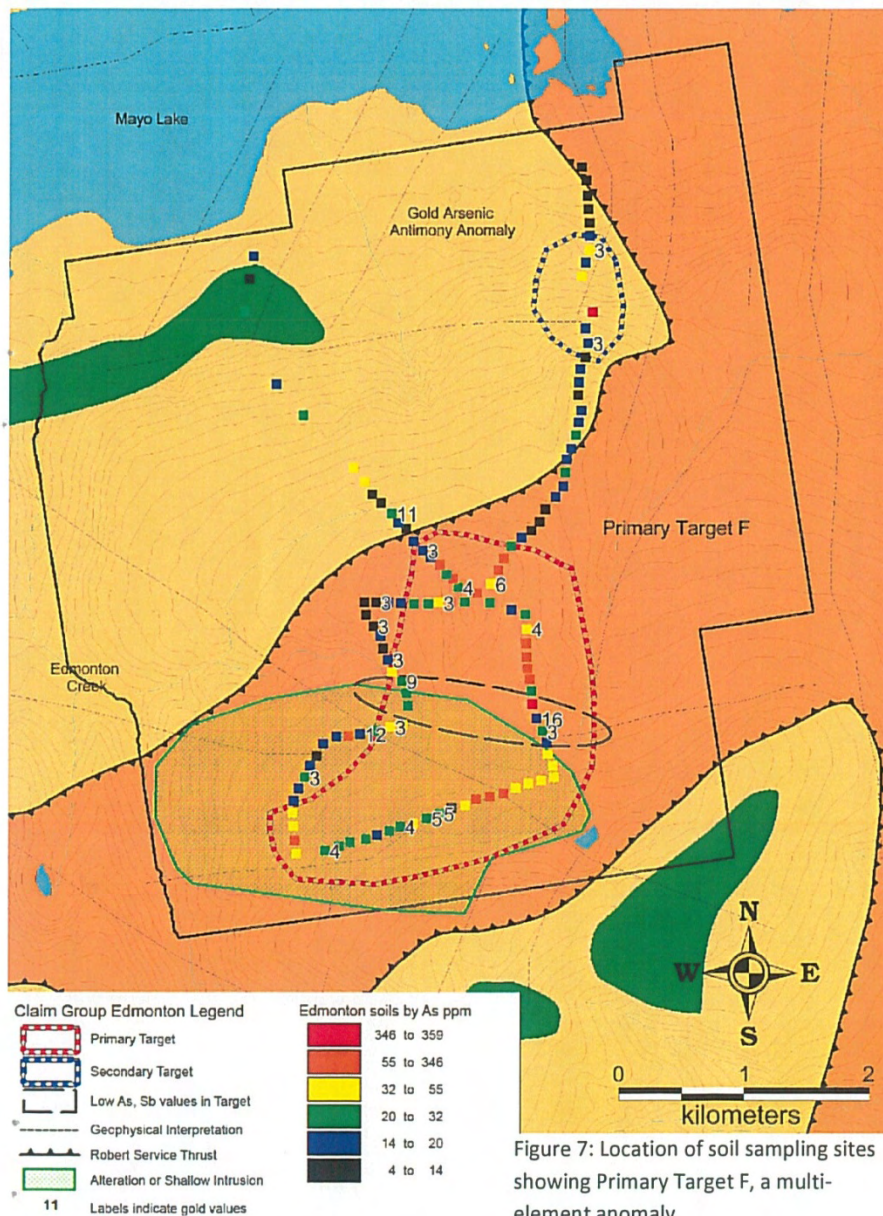


Figure 7: Location of soil sampling sites showing Primary Target F, a multi-element anomaly.

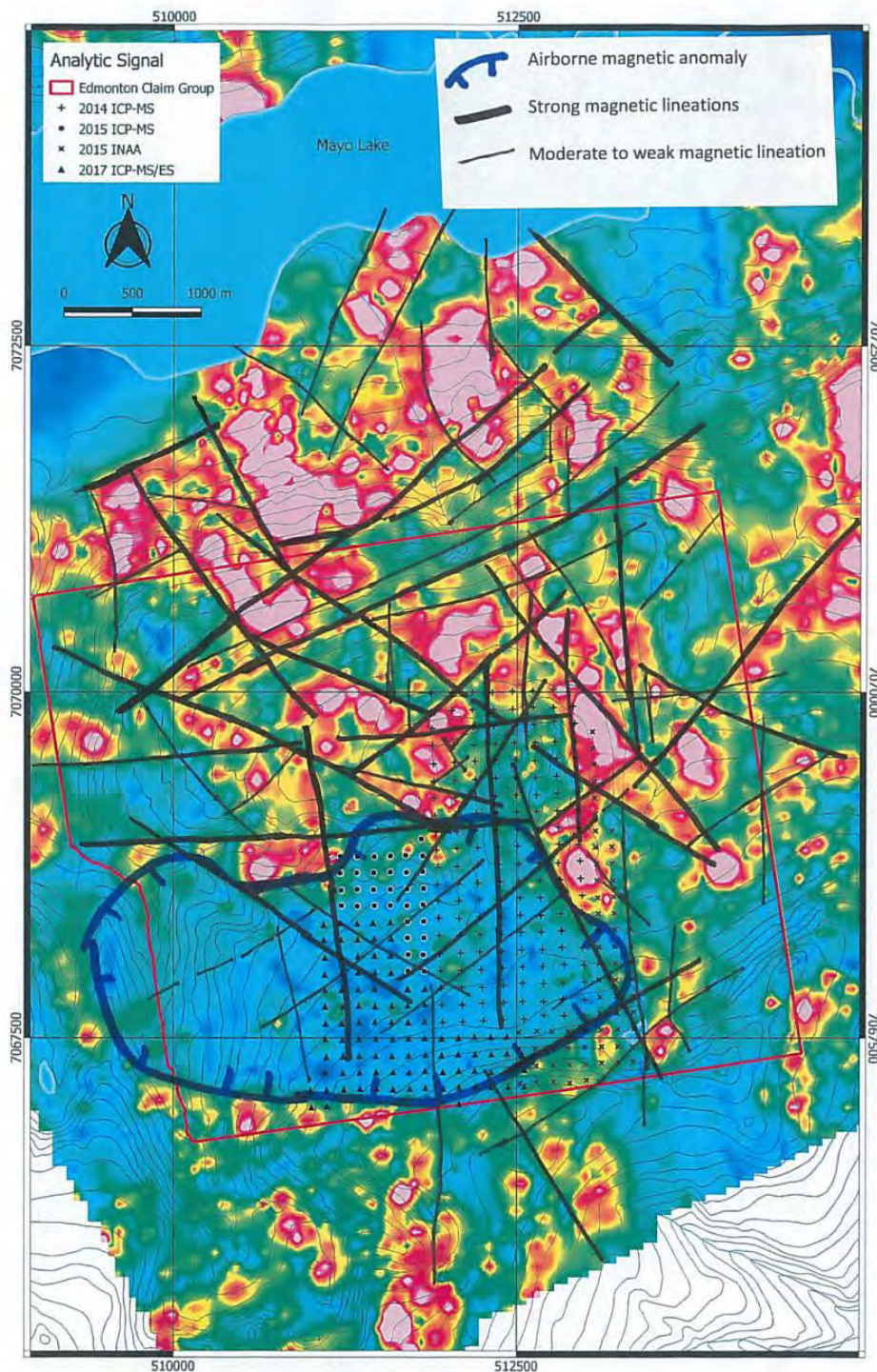


Figure 5. Major E-W trending magnetic anomaly and lineations as determined from airborne total magnetics, analytical signal and first derivative on analytical signal.

During 2014 and 2015 soil sampling on grids was completed over much of Primary Target F and adjacent areas. A large polymetallic anomaly that straddled the intersection of two geophysical structures and the boundary of a large geophysically-defined alteration zone or

shallow intrusion was identified. Anomalous gold values were primarily present in the north and central part of Target F, whereas silver and base metals were mainly enhanced and elevated along the southern edge of the target.

The potential for gold mineralization sourced by igneous bodies at various locations on the southern part of Edmonton was recognized from geochemical and geophysical investigations completed prior to 2016. A gold + mercury in soil anomaly, 1000m in length is present within the northern part of Anomaly F, which mirrors the northern outline of a broad oblong magnetic anomaly there. On the east and southeast of the grid, base metal and silver anomalies flank the sample grid and trend northwest. During sampling numerous pieces of gossanous and/or sulfidic float were located in the south west corner of the grid, these contained up to 46 ppb Au, 0.28% Zn and 30% Fe.

Geomorphology

The Property covers the northern portion of the Fork Plateau between Edmonton and Edwards Creeks south of Mayo Lake. Valleys containing Mayo and Williamson Lakes are broad and U-shaped due to glacier ice being funneled down them from east to west during Pleistocene glaciations. Most tributaries to the large valleys are narrow and confined by moderate to steep slopes. Uplands generally have moderate slopes. Streams draining the property are all part of the Yukon River watershed.

The Property has been subjected to multiple glaciations (Hughes 1982). The youngest Pleistocene McConnell Glaciation was confined to the trunk valleys occupied by Mayo, Janet and Williamson lakes and Keno Ladue River (Bond 1999). These valleys were filled with fast flowing ice that scoured their bottoms and sides. The upper limit of the McConnell Glaciation is marked by lateral moraines and kame terraces along the sides of these valleys. This limit is well marked by large lateral moraines on slopes rising up above Mayo Lake on the Property (Figure 6).

The uplands forming the central part of the claim group were covered by glacial ice during the older Reid glaciation. Due to the elevation of the upland, the ice was probably cold-based and transport of rock and debris was minimal as is evidenced by landforms. Mass wastage may have prevailed due to steep slopes.

The smoothness, drainage character and texture of surface sediments above the McConnell limit over a portion of the sample grid suggest that this portion was covered by sediment deposited in a glacial lake formed during the waning stages of the Reid glaciation.

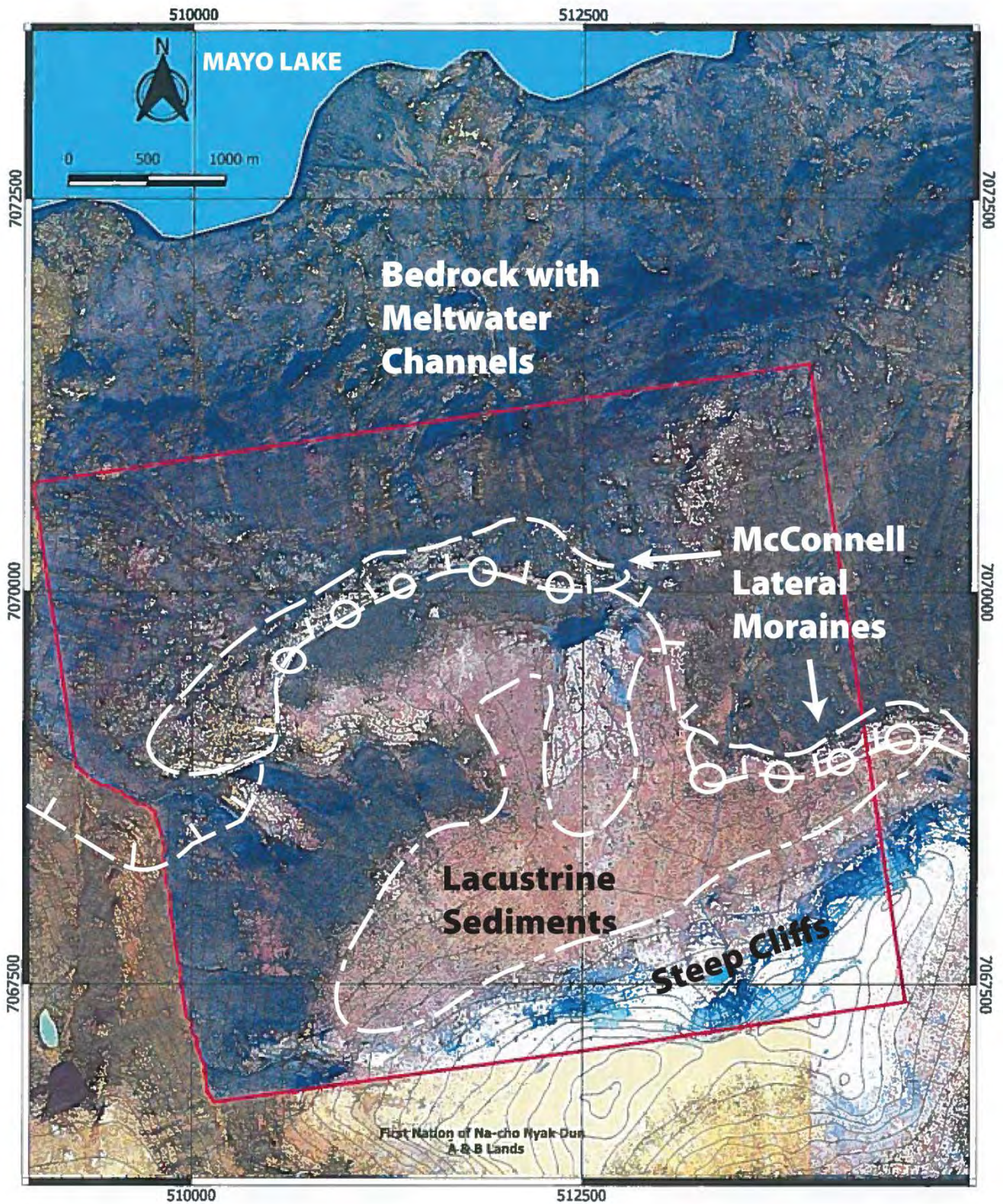


Figure 6. Glacial landforms and area of probable glaciolacustrine sediment. M^cConnell glacial limit is noted by line with ticks.

Outcrop is sparse on the property, rarely exceeding five percent in any area. Soil development is immature.

Vegetation is predominantly black spruce with willow and alder understorey. Lowlands and north facing slopes exhibit a thick cover of organic matter, moss and Labrador tea. South facing slopes are similarly vegetated but also include balsam and poplar groves. Permafrost is likely pervasive on north facing slopes but discontinuous on south facing slopes.

Regional Geology and Mineralization

Mapping in this region was done by C.F Roots who integrated numerous geological publications dating from 1920 to 1995. His work resulted in a regional map at 1:250,000 scale (Roots 1997).

The Property is located within the Selwyn Basin and lies within the Tintina Gold Belt. Simplified regional geology, as shown on Figure 7, depicts Upper Proterozoic to Lower Cambrian Hyland Group stratigraphy, in contact with Paleozoic metasedimentary units of the Ern Group and Keno Hill Quartzite along the Robert Service Thrust. Mid-Triassic mafic sills and greenstones are common in the Keno Hill Quartzite and Ern Group, but are rarely encountered in other units. All stratigraphic units have been intruded by the Mid-Cretaceous age Tombstone Plutonic Suite, which host several known gold deposits including Dublin Gulch. The 100 sq. km. Rook Pluton, west of the Keno Hill Camp, is the largest member of the Tombstone Plutonic Suite and probably drove hydrothermal circulation leading to the mineralization at Keno Hill as noted by references cited by Roots (1997).

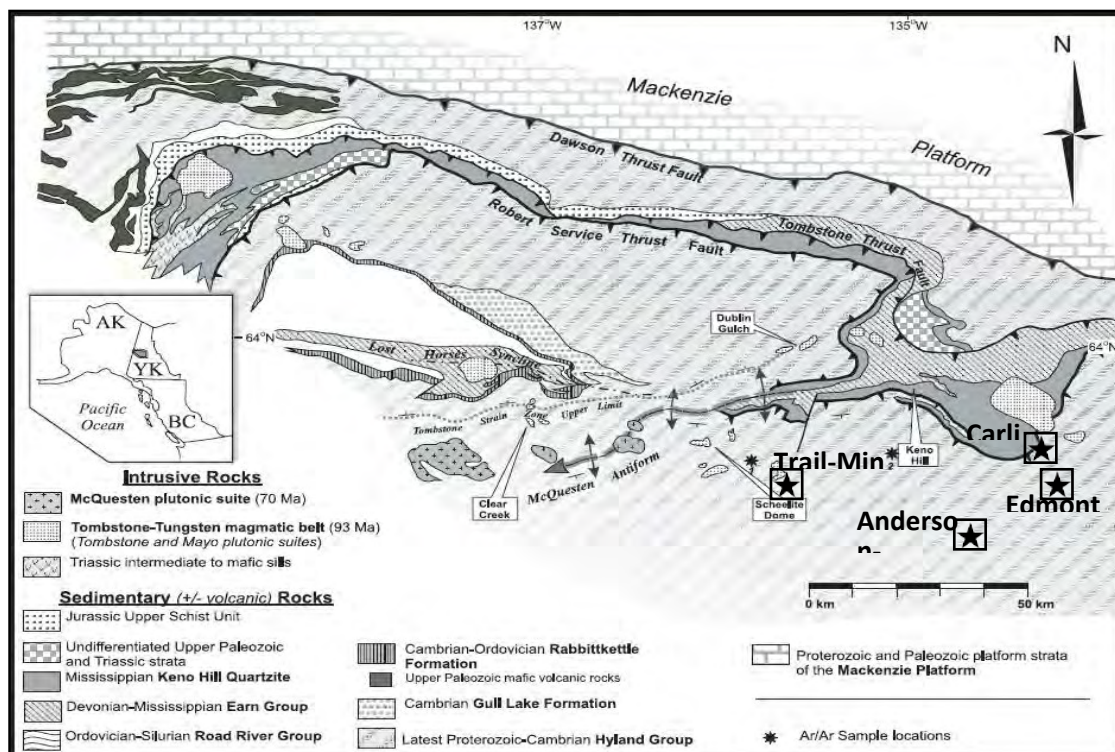


Figure 7. Selwyn Basin Geology. From Mair et al. 2006. Labeled stars indicate the Mayo Lake claim groups.

The dominant structural features in the area are a pair of imbricated thrust sheets; the RST and the Tombstone Thrust Sheet (“TTS”) have over 150km of combined NE directed transport of rock masses. The RST Sheet itself contains many internal thrusts that are commonly difficult to distinguish due to subsequent intense folding of faults and contacts and a strong penetrative structural fabric imparted by the later underlying TTS; the area deformed during this event is often referred to as the Tombstone Strain Zone. Intense folding is especially evident in units immediately around Keno Hill. Large open folds, the McQueston Antiform (E-W) and Mayo Lake Antiform (NW-SE), and several inferred brittle faults were developed after the large thrusting events (Roots 1997). A significant WNW geophysical lineation, which parallels the south shore of Mayo Lake (Miles et al, in press), appears to be a regional fault possibly demarcating segments within the RST Sheet.

Mineralization within the Tintina Gold Belt is primarily the result of intrusion related gold systems; these large epizonal systems result in variable deposits that on the surface may appear unrelated. The most distal mineralization associated with these felsic intrusives are polymetallic Ag-Pb-Zn veins similar to the locally developed Keno Hill Type veins. This mineralization represents the furthest extent of hydrothermal influence related to these intrusions and may occur many kilometers from the source stock (Figure 8). Consensus is that Keno Hill Type Veins (“KHTV”) are the product of hydrothermal circulation in reactivated structures driven by the emplacement of the Roop Lakes Stock, up to twenty kilometers away. These veins are generally within the Keno Hill Quartzite, but are inferred to cut through the RST and continue into the overlying Hyland Group. Abundant narrow Cretaceous dykes (Murphy 1997) related to the Tombstone Suite in the vicinity of Keno Hill could be an alternate hydrothermal engine or fluid source. In addition to Ag, Pb and Zn, other vectors for KHTV include Ba and Cu and in some cases Sb, Fe and Ca. At intermediate distances from source plutons, As-Sb-Au veins develop and have been the subject of minor exploration around Van Cleaves Hill, west of Mayo Lake.

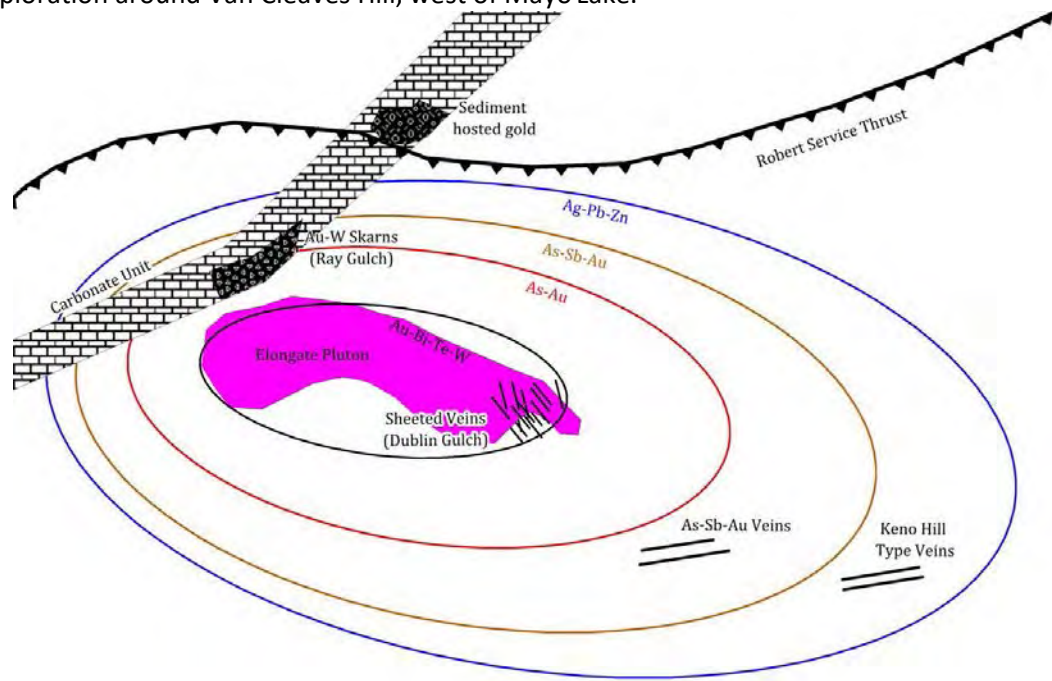


Figure 8. Idealized hydrothermal model for intrusion related gold systems in the Tintina Gold Belt (modified from Hart et al 2002).

Proximal mineralization associated with Tombstone intrusives are sheeted gold veins or stockworks within the rim or immediately adjacent to Tombstone Suite plutons. Intrusion related mineralization itself is generally (i) enriched in Au-Bi-Te, possibly W; (ii) depleted in base metals and (iii) situated in tensional zones of the stock.

Where hydrothermal circulation contacts carbonate lithologies skarnification is common, such as at the Ray Gulch tungsten skarn near Dublin Gulch. These skarns are generally high in Au-W-Cu-Zn. Skarnification of rocks surrounding Tombstone suite intrusions will result in hydrothermal signatures different from those illustrated in Figure 8.

A proximal relationship to crustal scale features appears to be common among deposits in the Tintina Gold Belt. Carlin-type, sediment hosted disseminated gold mineralization is almost exclusively developed proximal to crustal scale faults such as the RST, possibly independent of any intrusive unit. Carlin-type mineralization could be present in any carbonate units within the strata on the Property and would likely show Au-As-Hg-Sb signatures.

The Keno Hill silver camp has produced over two hundred and sixty million ounces of silver (260M oz Ag) since 1921. Productive veins occur in the Keno Hill Quartzite and underlying Lower Schist. Although faults with associated mineralization (“mineralized faults”) are believed to cut through the RST and continue into the Hyland Group, no significant silver mineralization has been discovered above the RST. Ore shoots within the veins typically consist of galena, sphalerite and tetrahedrite with siderite or quartz gangue. The mineralized faults trend northeast and dip steeply to the southeast with left lateral offsets ranging from a few meters to over a hundred meters (Boyle 1965). Cross faults offsetting the mineralized faults trend perpendicular to them and dip 20° to 30° to the southwest.

Two major gold deposits are located within 30 km of the Company’s properties. Both are located in the upper plate of the RS Thrust within Hyland Group metasedimentary rocks. Sheeted veins related to the Tombstone Plutonic Suite contain most of the gold at Dublin Gulch and Gold Dome (formerly Scheelite Dome). At Dublin Gulch where open pit resources containing 6.4 million ounces of gold at a grade of 0.67g/t have been defined. The Eagle Gold Mine was put into production in 2019.

Property Geology and Mineralization

The Property's geology is shown on Figure 9. The Edmonton Property is underlain by schists of the Hyland group thrust atop Keno Hill Quartzites along the Robert Service Thrust. The Robert Service Thrust transects the northwest half of the property and there is a small fragment of an erosional window revealing Keno Hill Quartzites in the southeast corner, most stratigraphy has bedding parallel to foliation, which strikes southeast (Roots 1997) and dips between 25° and 45° to the south. The Mayo Lake Antiform is interpreted to cross the claim block from the northwest to the south.

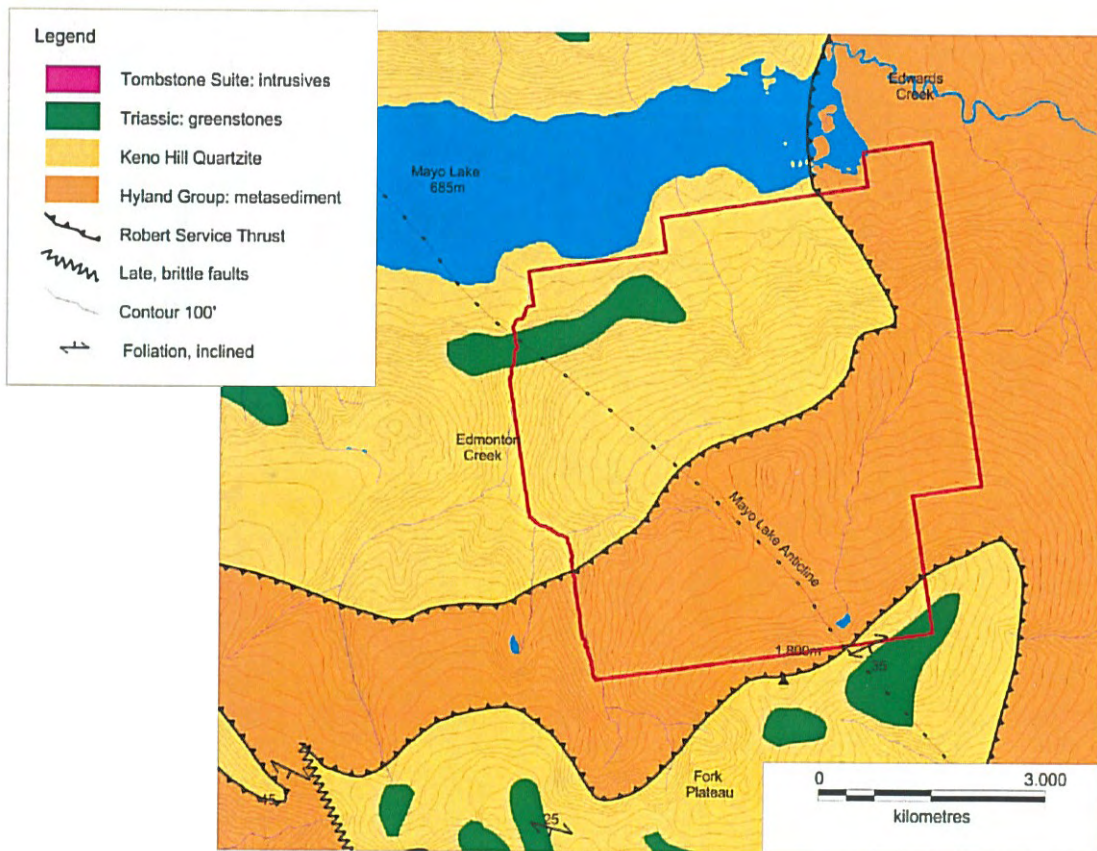


Figure 9. Property geology from Roots 1997 with modifications. [Property outline predates cancellation of northern claims].

Stratigraphy.

Keno Hill Quartzite is comprised of massive to well-foliated and lineated quartzite with lesser phyllitic quartzite, chloritic and carbonaceous phyllite and minor limestone and metavolcanic rocks (Green 1971). The Hyland group; which is locally mapped as the Yusezyu Formation, consists of compositionally layered medium to coarse-grained micaceous quartzose phyllites; muscovite-chlorite gritty phyllites; green and grey impure quartzite; metaconglomerate; and rare calcsilicate (Roots 1997).

Intrusions.

Tombstone Suite intrusions are described as buff to grey weathering dykes, sills and small plugs with aplitic or granitic texture. Some of these bodies are locally quartz and feldspar phyric and mineralized with disseminated arsenopyrite (Becker 2000). Although none have been mapped in the area to date, small dykes or plugs can be found throughout the Hyland group.

Triassic metadiorite sills which are abundant in the Keno Hill Quartzite are dark green, foliated, fine to medium grained and weather in a blocky fashion. The main mineral assemblage consists of amphibole, chlorite and plagioclase. Sills are common in the Keno Hill Quartzite and Ern Group, but are also known within the Hyland group.

Structure.

Deformation on the property is typical of that seen elsewhere in the Tombstone Strain zone, including a strong penetrative fabric and a large scale recumbent fold of the Robert Service Thrust west of the claims (Roots 1997). The generally south dipping Robert Service Thrust marks

the contact between the Hyland Group and the Keno Hill Quartzite; often intricately folded this structure is up to several hundred meters wide with a complex internal structure. Broad post-metamorphic folding is also present and is indicated by variable dips, notably the Mayo Lake Antiform which trends southeast through the property, parallel to the long axis of the Roop Pluton. Any relationship between the intrusion of the Roop Pluton and Mayo Lake Antiform is speculative (Roots 1997). A large erosional window to the south is likely due to the interaction of the large recumbent fold to the west being deformed by the late Mayo Lake Antiform.

Mineralization.

The Property is a prospective host to, a variety of gold deposit styles related to the complex Mesozoic and Cenozoic metamorphic, plutonic and volcanic history associated with the formation of the northern Canadian Cordilleran orogeny. The most attractive of these are:

- Polymetallic veins of the Keno Hill Type that are typically high in silver, lead, and zinc and are related to the intrusion of the Tombstone Plutonic Suite.
- Reduced Intrusion Related gold ores related to post-orogenic, mid-Cretaceous plutons that intruded Selwyn Basin sedimentary rocks.
- Orogenic gold veins, epithermal and mesothermal, Jurassic in age, which formed after peak metamorphism of the Yukon- Tanana Terrane; their erosion likely contributed to the Klondike placer deposits.

Description of 2017 and 2018 work.

Sampling and analysis.

During summer of 2017, soils from 96 sites were sampled and were analyzed by ICP-MS for 37 elements (Bureau Veritas preparation AQ251) and re-analyzed by fire assay (FA) for gold (Bureau Veritas preparation FA430) in 2018. The samples were collected by Tyrell Sutherland, Richard Barrie and Jeff Moore. They were forwarded to the Bureau Veritas' laboratory at Whitehorse for preparation and their laboratory in Vancouver for analysis. For the purposes of QC, duplicate samples were collected to compliment the standard QP/QC performed by Bureau Veritas during analysis. See Appendix B, C and D for sample location, assay certificates and geochemical results. No inconsistencies were found from a review of the results from duplication of samples and the Bureau Veritas QC tests.

The area sampled in 2017 was to the SW of a larger grid that had been sampled in 2014 and 2015 (Figures 1 and 10). Samples from the older grids were analyzed by Acme Analytical Laboratories Ltd using preparation IDX2, ICP-MS after aqua regia digestion. Samples from the eastern extremity of the 2015 grid was analyzed by INAA at Maxim Laboratories.

The 2017 soils were analyzed to determine the probable location of any mineralization that may be present in the SW quadrant of a notable oblong airborne magnetic anomaly measuring about 2000m by 3000m (Figure 4). Previous soil sampling and analysis had indicated the presence of gold mineralization within the anomaly and polymetallic mineralization around its extremities.

Comparison of fire assay and ICP-MS results.

Duplication of gold analysis by FA of samples initially analyzed by ICP-MS in 2017 (Figures 11 and 12) was undertaken to determine if the ICP-MS results (i) were being interfered with due to presence of graphite or other rock constituents within the soils sampled, (ii) were different because of the laboratory procedures followed in the analysis or (iii) some sort of nugget effect was selectively affecting results by a specific analytical technique. The assessment was hampered by the results for the FA commonly being below its detection limit (<5 ppb). This was particularly burdensome in areas where enhanced (ENH) and anomalous (ANL) linear trends shown by the ICP-MS contoured results matched linear trends shown by the geophysics (Figures 10 and 11) and gold values from FA were generally below the detection limit.

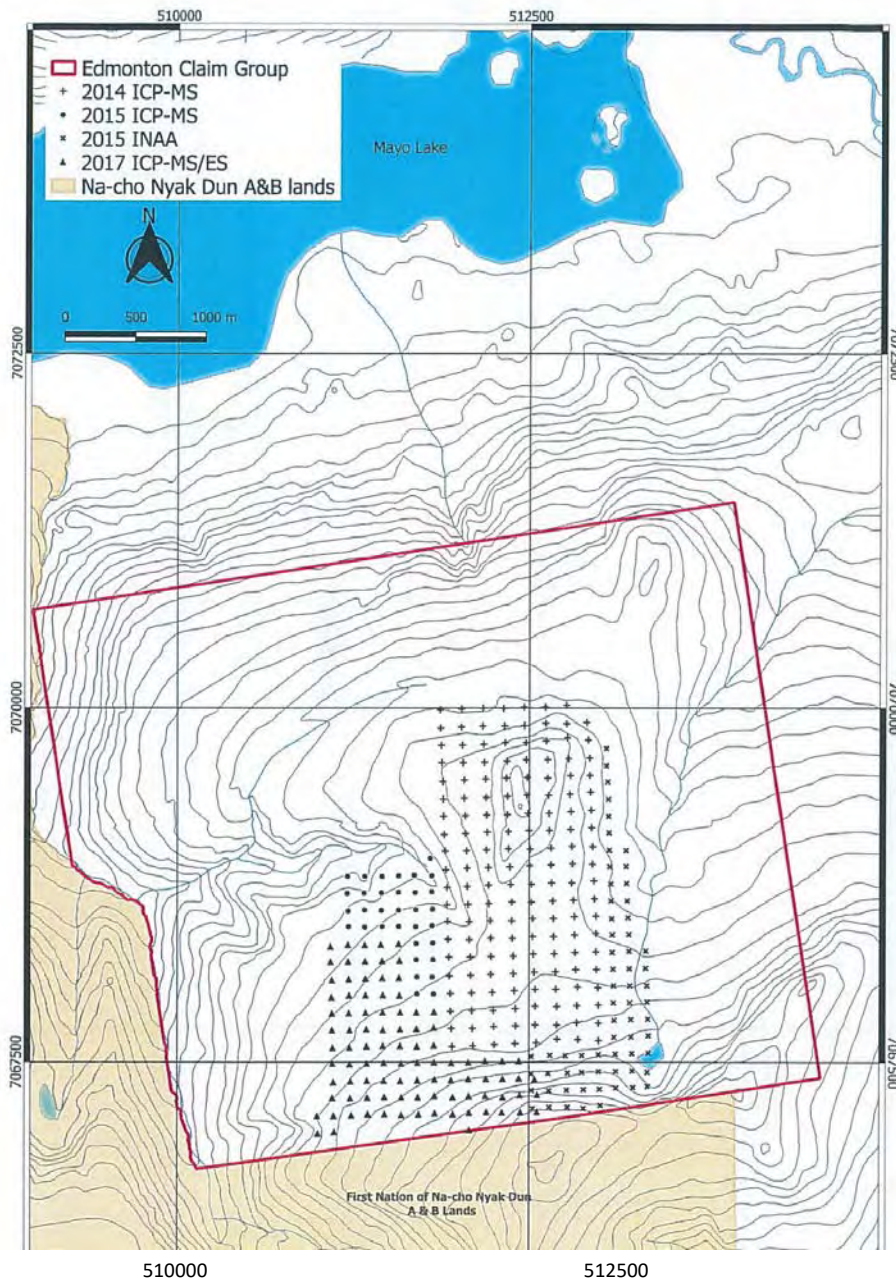


Figure 10. Location of soil samples on 2014, 2015 and 2017 grids

To determine if the ICP-MS results were skewed, namely to lower values by interference from factors preventing a true measurement of the gold contents, a comparison of the results from both techniques was completed. Table 1 gives (i) a summary of results differentiated according to the applicability of them to determining the possible reasons for deficiency in gold within the ICP-MS results and (ii) a calculated estimation of this deficiency and Table 2 shows a classification of the comparable results from both techniques. Results from sites where the gold content by FA was < 5 ppb and those where the results from either technique was greater than 5 times (500%) the other technique were eliminated from the general calculation. The latter group were judged to be a result of some issue related to sample splitting and gold distribution within the sample prior to analysis, i.e. a nugget, or similar effect. Where the difference in results between techniques is under some small amount, e.g. <6 ppb and the results are low and near detection limits then this difference may be in fact due to measurement interference or laboratory technique.

The average deficiency in the gold results using ICP-MS for each of the sites compared was then calculated to be approximately 1.8 ppb Au. This value can only be applied with any confidence to the area sampled during 2017 as the characteristics of the rocks from other areas along with subtle changes in laboratory procedure could significantly affect results from the different procedures.

Table 2. ICP deficit in gold values from ICP analysis as compared with ICP-MS. Sites from which no absolute determination or a determination showing nugget effects are excluded

Code	Restriction of Measurements *	Number of sites	FA PPB Total all Sites	FA PPB Average	ICP PPB Total	ICP PPB Average all Sites	FA-ICP Totals
1	FA <5ppb; ICP ≤5ppb (no determination FA)	39	127.5	3.27	118.3	3.03	9.20
2	FA ≥ 5X ICP (Nugget Effect?)	6	319	53.17	6.2	1.03	312.80
3	ICP ≥ 5x FA (Nugget Effect?)	2	5	2.50	57.4	28.70	-52.40
4	FA <5ppb; ICP ≤8ppb (no determination FA)	4	7.5	1.88	19.7	4.93	-12.20
5	FA ≤ 1.0X ICP; ICP > 5ppb	6	40	6.67	56.6	9.43	-16.60
6	FA > 1.0X ICP; ≤ 1.5X ICP	10	49	4.90	38.0	3.80	11.00
7	FA > 1.5X ICP; ≤ 2.0X ICP	10	48	4.80	26.9	2.69	21.10
8	FA > 2.0X ICP; ≤ 5.0X ICP	21	103	4.90	34.2	1.63	68.80
Total All Sites		98	699	7.13	357.3	3.65	341.70
Total Sites minus FA <5ppb and Nugget		47	240.00	5.11	155.70	3.31	84.30
						Average ICP deficit 1.79	

* For readings of <5ppb, assume 2.5 ppb; <2 ppb, assume 1 ppb

Table 3. Gold Results for FA and ICP-MS analysis of 98 samples and FA/ICP-MS from Edmonton SW grid ¹

Sample ID	Code ³	FA430 Au ppm FA-ppm	FA-ppb	AQ251 Au ppb ICP-ppb	FA/ICP ²
1890201	7	0.007	7.0	4.0	1.75
1890202	6	0.005	5.0	3.7	1.35
1890203	1	<0.005	-5.0	2.5	
1890204	6	0.005	5.0	3.3	1.52
1890205	1	<0.005	-5.0	3.4	
1890206	8	0.005	5.0	2.9	1.72
1890207	1	I.S.	is	2.8	
1890208	5	0.006	6.0	9.7	0.62
1890209	6	0.006	6.0	5.0	1.20
1890210	4	<0.005	-5.0	5.3	
1890211	1	0.005	5.0	2.1	
1890212	2	0.011	11.0	1.7	6.47
1890213	8	0.006	6.0	2.0	3.00
1890214	1	<0.005	-5.0	1.3	
1890215	1	<0.005	-5.0	3.8	
1890216	5	0.007	7.0	10.6	0.66
1890217	1	<0.005	-5.0	2.3	
1890218	4	<0.005	-5.0	5.3	
1890219	8	0.005	5.0	1.2	4.17
1890220	2	0.007	7.0	1.0	7.00
1890221	7	0.006	6.0	3.6	1.67
1890222	1	<0.005	-5.0	1.3	
1890223	1	<0.005	-5.0	4.9	
1890224	8	0.008	8.0	3.5	2.29
1890225	8	0.005	5.0	2.3	2.17
1890226	8	0.005	5.0	2.3	2.17
1890227	8	0.006	6.0	2.1	2.86
1890228	1	<0.005	-5.0	3.0	
1890229	4	<0.005	-5.0	7.6	
1890230	1	<0.005	-5.0	1.7	
1890231	8	0.005	5.0	1.3	3.85
1890232	1	<0.005	-5.0	1.2	
1890233	1	<0.005	-5.0	0.8	
1890234	1	<0.005	-5.0	2.9	
1890235	1	<0.005	-5.0	3.5	
1890236	4	<0.005	-5.0	6.8	
1890237	7	0.007	7.0	4.0	1.75
1890238	8	0.007	7.0	2.3	3.04
1890251	6	0.006	6.0	4.1	1.46
1890252	6	0.006	6.0	4.7	1.28
1890253	8	0.005	5.0	2.1	2.38
1890254	1	<0.005	-5.0	2.6	
1890255	1	<0.005	-5.0	4.0	
1890256	7	0.005	5.0	2.5	2.00
1890257	7	0.007	7.0	3.4	2.06
1890258	6	0.006	6.0	4.5	1.33
1890259	8	0.010	10.0	3.0	3.33
1890260	1	<0.005	-5.0	1.2	
1890261	1	<0.005	-5.0	2.6	

Sample ID	Code ³	FA430 Au ppm FA-ppm	FA-ppb	AQ251 Au ppb ICP-ppb	FA/ICP ²
1890262	6	0.006	6.0	4.4	1.36
1890263	1	<0.005	-5.0	2.6	
1890264	2	0.277	277.0	1.9	145.90
1890265	5	0.006	6.0	8.7	0.69
1890266	1	<0.005	-5.0	4.9	
1890267	1	I.S.	is	1.5	
1890268	2	0.012	12.0	0.9	13.33
1890269	7	0.009	9.0	4.4	2.05
1890270	8	0.006	6.0	2.8	2.14
1890271	1	<0.005	-5.0	3.5	
1890272	1	<0.005	-5.0	1.2	
1890273	1	<0.005	-5.0	2.6	
1890274	1	I.S.	is	2.2	
1890275	1	<0.005	-5.0	1.3	
1890276	1	<0.005	-5.0	2.8	
1890277	8	0.007	7.0	2.5	2.80
1890278	7	0.006	6.0	3.8	1.58
1890279	5	0.006	6.0	8.5	0.71
1890280	6	0.007	7.0	4.7	1.49
1890301	7	0.006	6.0	3.7	1.62
1890302	6	0.006	6.0	5.4	1.11
1890303	8	0.006	6.0	2.3	2.61
1890304	8	0.009	9.0	4.4	2.05
1890305	7	0.005	5.0	2.4	2.08
1890306	1	<0.005	-5.0	0.7	
1890307	1	<0.005	-5.0	1.3	
1890308	6	0.006	6.0	5.2	1.15
1890309	8	0.008	8.0	1.6	5.00
1890310	3	<0.005	-5.0	15.3	
1890311	1	<0.005	-5.0	0.2	
1890312	3	<0.005	-5.0	42.1	
1890313	1	<0.005	-5.0	1.2	
1890314	1	<0.005	-5.0	0.8	
1890315	1	<0.005	-5.0	3.4	
1890316	1	<0.005	-5.0	0.4	
1890317	5	0.006	6.0	8.5	0.71
1890318	1	<0.005	-5.0	0.6	
1890319	8	0.005	5.0	1.6	3.13
1890320	7	0.005	5.0	3.1	1.61
1890321	8	0.007	7.0	1.9	3.68
1890322	1	<0.005	-5.0	2.6	
1890323	8	0.006	6.0	1.2	5.00
1890324	1	<0.005	-5.0	2.1	
1890325	2	0.006	6.0	<0.2	
1890326	1	<0.005	-5.0	0.2	
1890327	2	0.006	6.0	0.7	0.17 ²
1890328	1	<0.005	-5.0	2.8	
1890329	5	0.009	9.0	10.6	0.85
1890330	8	0.007	7.0	2.1	3.33

Note 1. Arbitrarily assigning a value of 2.5 for undetectable for FA-ppb would result in maximum Δ of 5.1 ppb and FA/ICP of between 0.33 and 12.5; most have a FA/ICP of between 0.5 and 2.0.

Note 2. The inverse of 0.17 FA/ICP is 8.57 ICP/FA.

Note 3. Code is shown on Table 1.

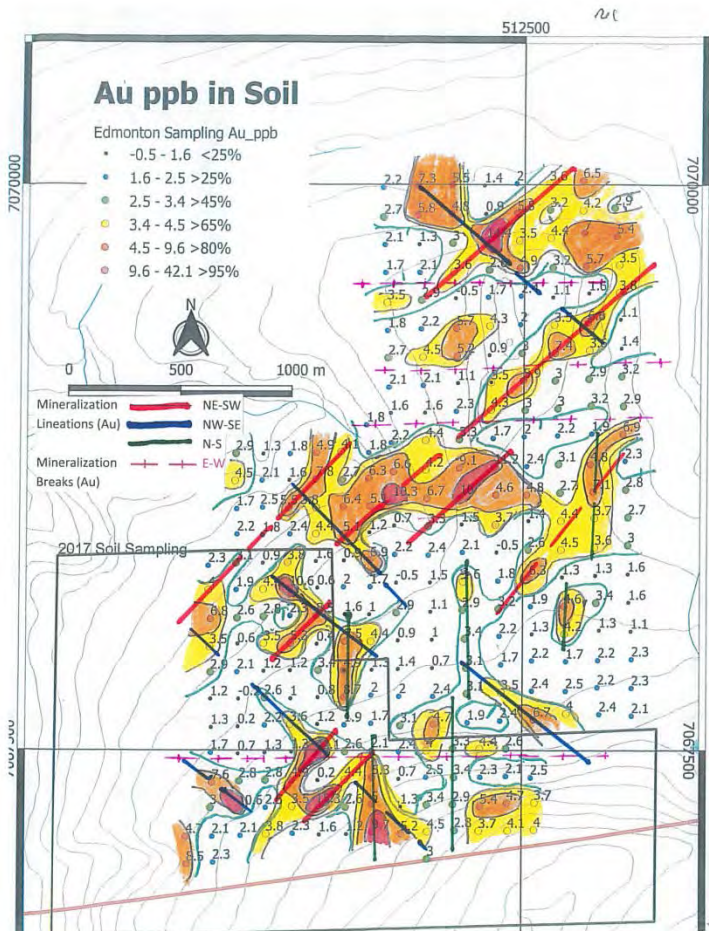


Figure 11. Contoured plots of gold values from ICP-MS analysis.

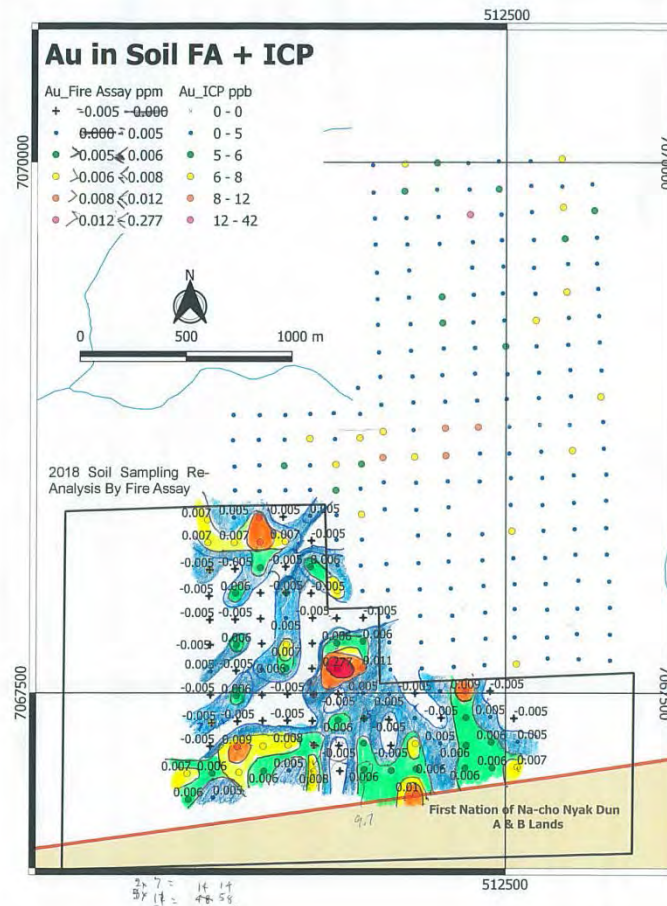


Figure 12. Contoured plots of gold values from FA analysis.

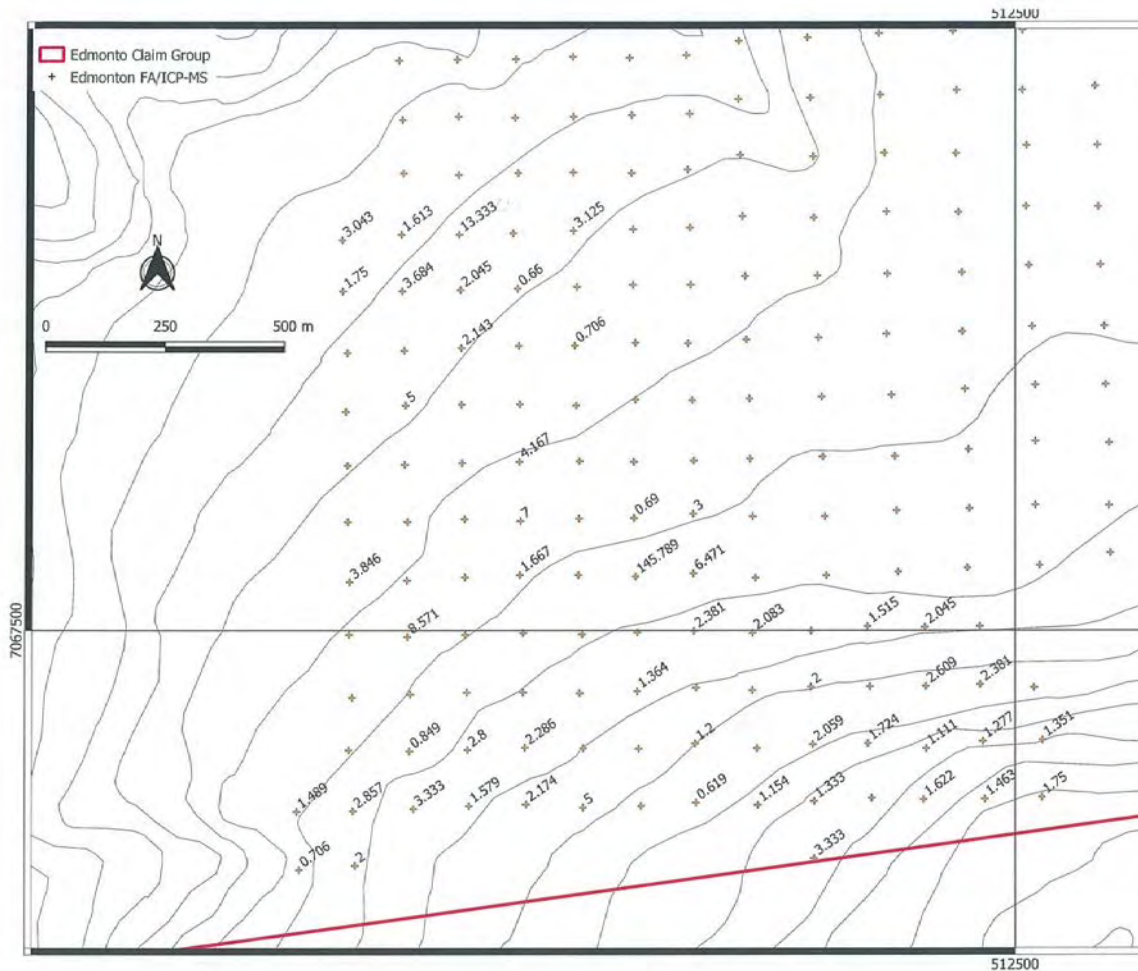
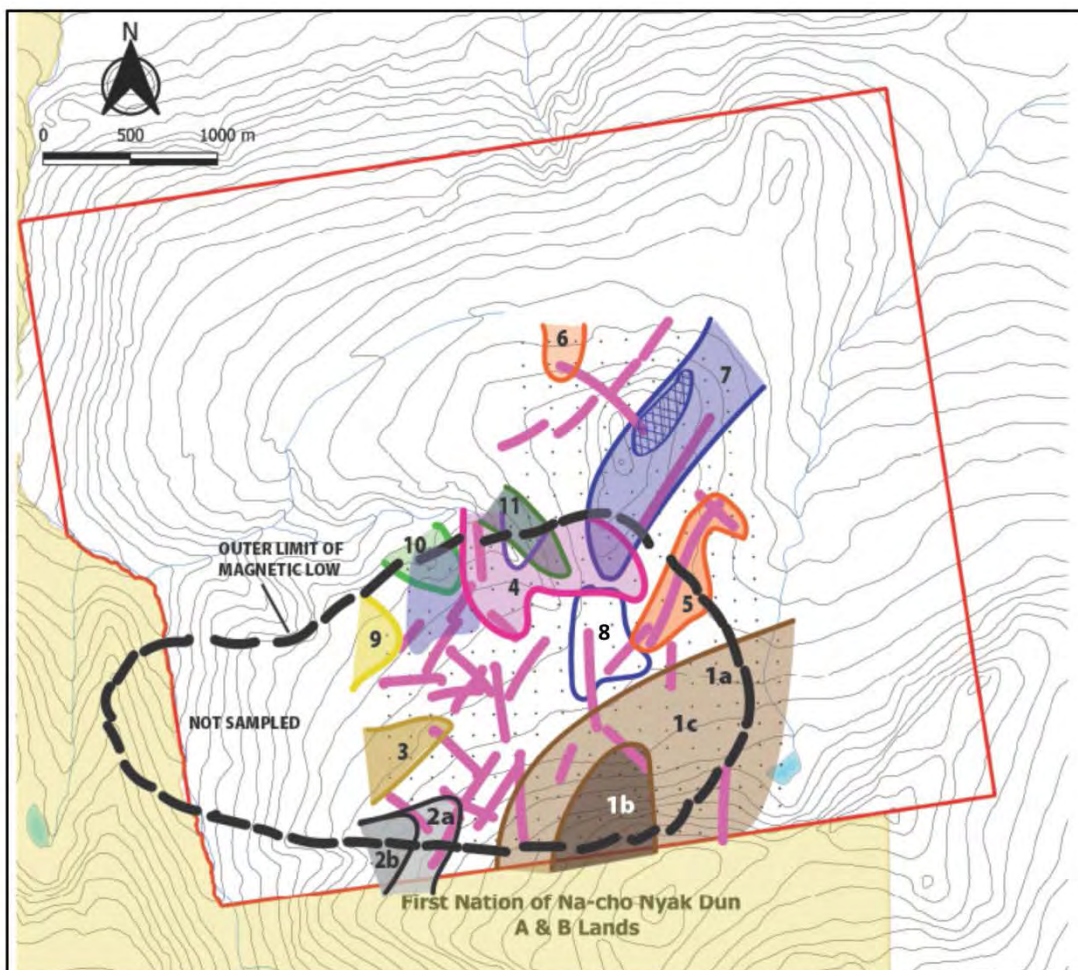


Figure 13. Plot of FA ppb/ICP-MS ppb results for samples above detection limit for both analytical techniques.

The pattern shown by the FA and ICP-MS results are only partially supportive of each other. This may well be because of the number of FA results below detection limit. Interesting is the fact that the highest Au analysis of 227 ppb from FA is matched by a value of 1.9 ppb from ICP-MS, but lies along a well defined N-S trend on the Au results from the ICP-MS.

A plot of the FA/ICP-MS ratio (Fig. 13) shows that the ICP-MS seems to be low in the south part of the area duplicate relative to the FA in the northern part, and to a lesser extent the southwest part. The deficiency in gold content from ICP-MS as such will not significantly affect the interpretation of the results from the ICP-MS technique. The pattern of the ICP-MS gold anomalies and their relationship to results are generally correlative with the patterns of some other elements and of the geophysics, confirming the validity of the patterns. The pattern of the anomalous and enhanced ICP-MS gold results are an important consideration in focusing exploration, even where the results are subdued. The ICP-MS results can be subdued because of factors other than the intensity of mineralization in the rocks giving cause to the anomalies, e.g. mixing of weathered rock, lacustrine or eolian cover near-surface leaching, etc.

Pattern of geochemical anomalous and enhanced values – 2017 soil survey.



LEGEND			
Anomaly	Elements 1,2	Anomaly	Elements 1,2
1a	Zn, Ni, Cr, Mg, Fe, Sb, Sc; (Ag, Co, Mn, Ti, K, P)	6	Au; (As, Mg)
1b	Cu, Ag, Ni, Cr, Mo, Zn, W, Bi, Mg, Fe; (Pb, Sb, La, Sc, Se)	7	Cu, Au, W, Ni, Fe; (Cr, Co, Ag, Mg, La, Na, Sc); zonation NE trend Cu + Ni in core; Au + Fe in flank
1c	Ag, Ni, Cr, Zn, Ca, P, Sc; (Co, Sb) highs within zone trend ENE	8	Ag, Ba; (Cr)
2a	Ag, Cu, Cr; (Fe, As)	9	Ag, Zn, Ni, Co, Mn, Ca, Ba; (Au, Bi, P)
2b	Zn, Ni, La; (Au, Co, Bi, Mo, Na, Sc)	10	Ni, Co, Bi, Ti, Mg, Fe, Ti, Mn, Ca, K, Na, La, Sc; (Ag, Zn, Pb, Cu, Cr)
3	As; (Ag, Ni, Zn)	11	Pb, Zn, Mo, W, Sb, Ca, P; (Cu, Fe, K, Se, Sc)
4	Au; (Hg, As, Ba)		Greenstone
5	Au; (Sb, As)		Au

1. Bracketed elements show medium-low enhanced values or do not cover complete zone.
 2. Au, Ag, Cu bolded where present.

Figure 14. Summary diagram showing gold, silver and polymetallic anomalies plus the large magnetic low.

Figure 14 illustrates the various anomalies and their relationship to the large oblong magnetic low at the south end of Edmonton.

At the southwest and southeast corners of the 2017 grid (Anomalies 1 and 2), areas are characterized by ENH and ANL values of (i) silver (Ag), (ii) numerous base metals such as Cu, Pb, Zn, Ni, Cr, Co, (iii) other metals such as Bi, Au, Mo, W and (iv) elements reflecting alteration or host rock concentrations such as Sb, Fe, Mg, and Ca (Figs. 15-18). Generally the intensity of the ENH values increases towards the southwest and southeast extremities of the respective anomalies. A number of elements, e.g. Ag, Zn, Ni, Cr and Ca, show a narrow belt of relatively low values within, and parallel to the edge, of Anomaly 1b, suggesting a zonation parallel to the edge of Anomaly 1b within any underlying mineralization present.

Along the west edge of the sampled grid where the topography starts to slope down to the west, Anomalies 3 and 13 are present where elements such as Ag, Zn, Ni, Co, Mn and Ba are anomalous (Figs.15-19).

Within the area sampled in 2017, narrow ENH & ANL Au linears at a variety of orientations (NE, NW and N trending) are present (Figure 15). Although not necessarily coincidental with the Au linears, numerous other elements show similar linears in this part of the 2017 grid, e.g. Ni, Cr, Co, Bi, Mn, Ba and Ca (Figures 15-18). Au and Bi show some elevation in values in the southeast corner of the 2017 grid (Anomaly 1c).

Pattern of geochemical anomalous and enhanced values – 2017.

In addition to the patterns shown by the 2017 sampling, other patterns are present along the northern boundary of the oblong magnetic anomaly and beyond its north boundary. The most significant is a broad E-W trending Au anomaly (Anomaly 4), that is partially reflected in plots of Hg, As and Ba (Fig. 19).

Other more narrow and discontinuous Au anomalies are present to the east of the above anomaly and in the northern part of the grids, i.e. Anomalies 5 and 6. Gold also forms a component of a major NE trending anomaly showing strongly anomalous values for Cu, Ni and Fe (Anomaly 7); other elements are present that have less enhanced values or whose enhanced values are discontinuous within this anomaly. Within Anomaly 7 some zonation of the ANL and EHN values for a number of metals is apparent.

In conjunction with Ba and Cr, a distinct Ag anomaly (Anomaly 8) is present at the east end of the broad E-W trending gold anomaly (Anomaly 4). See Figures 14, 15, 17 and 18.

On the northwest extremity of the grid another anomalies seem related to a loss in elevation similar to Anomalies 2 and 3 within the 2017 grid. The eastern anomaly (Anomaly 11) within the 2017 grid is marked by distinct anomalous values for metals and indicators such as Pb, Zn, Mo and Sb; the western anomaly (Anomaly 10) by a multitude of ANL and ENH elements, specifically Ni, Co, and Bi.

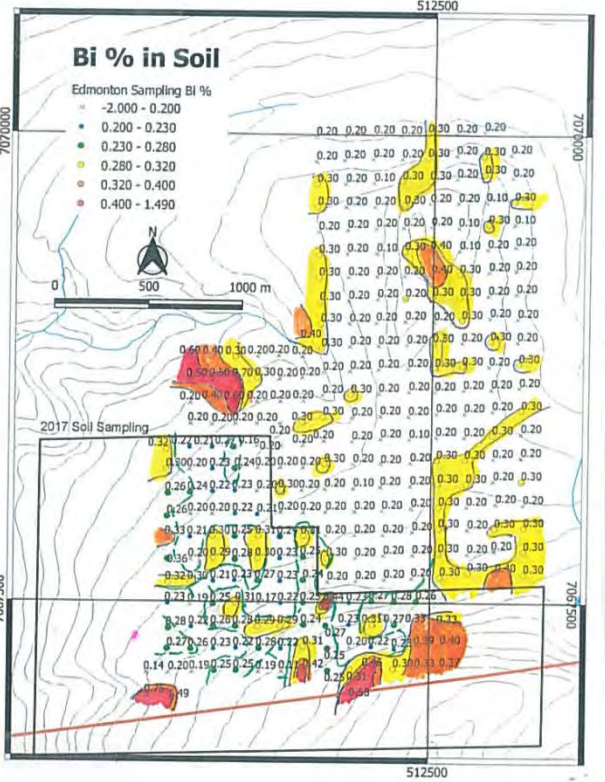
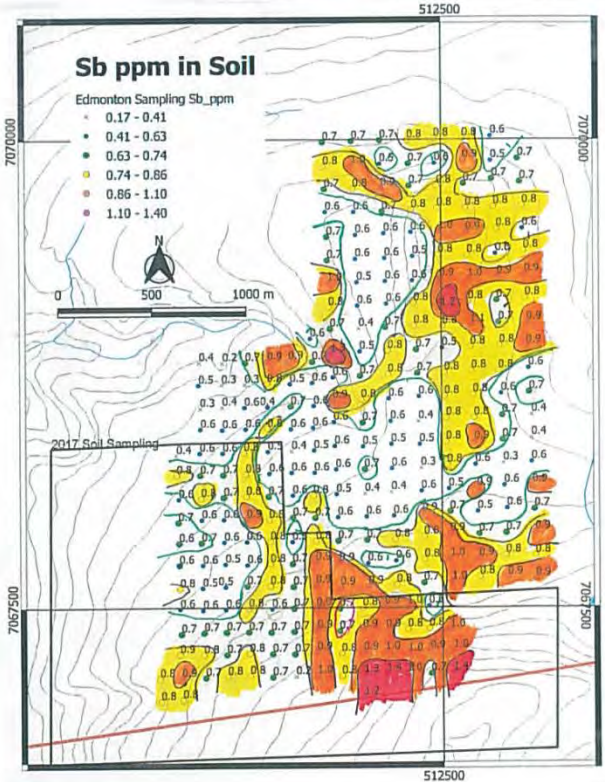
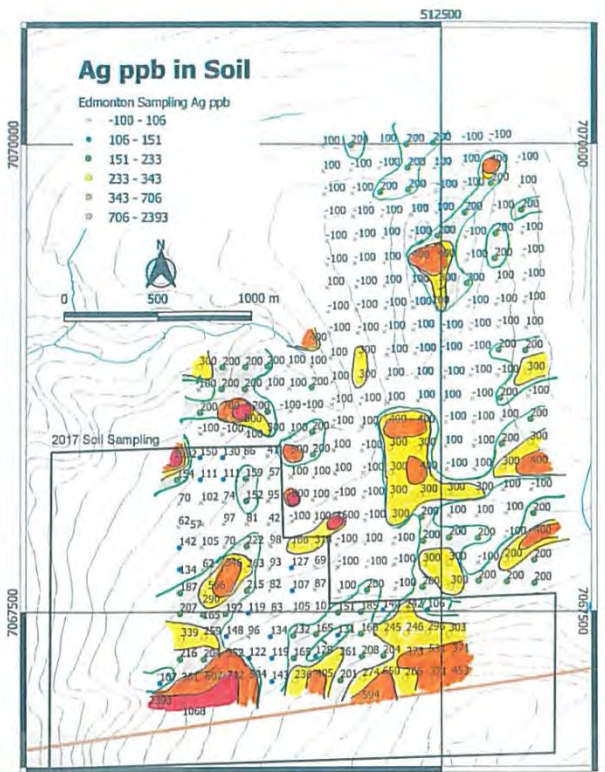
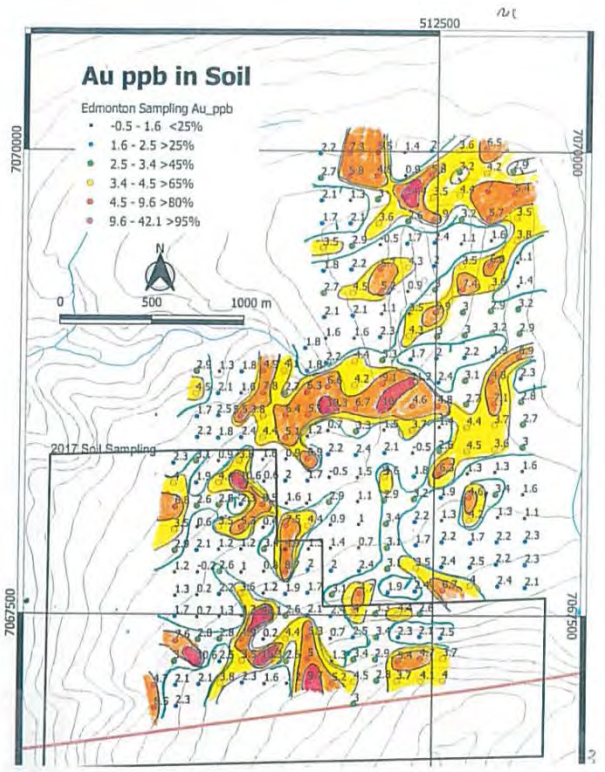


Figure 15. Contoured plots of gold (Au), silver (Ag), antimony (Sb) and bismuth (Bi).

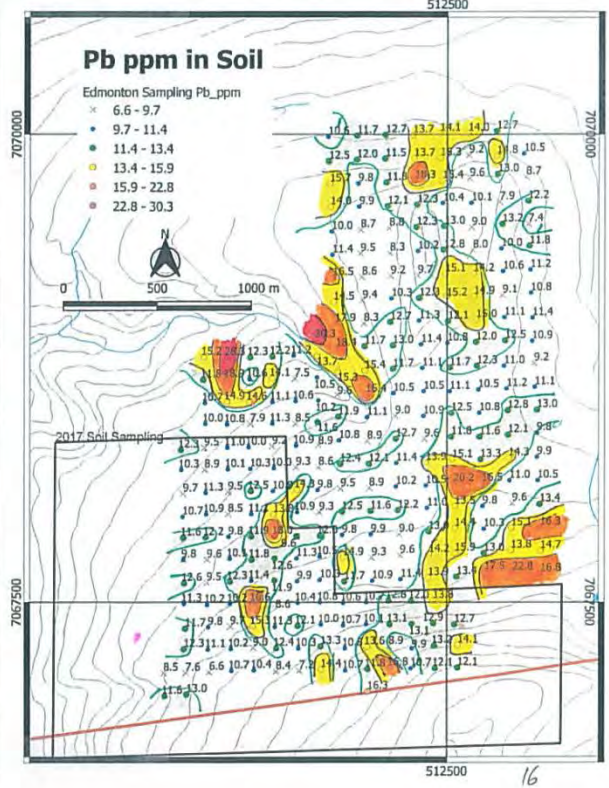
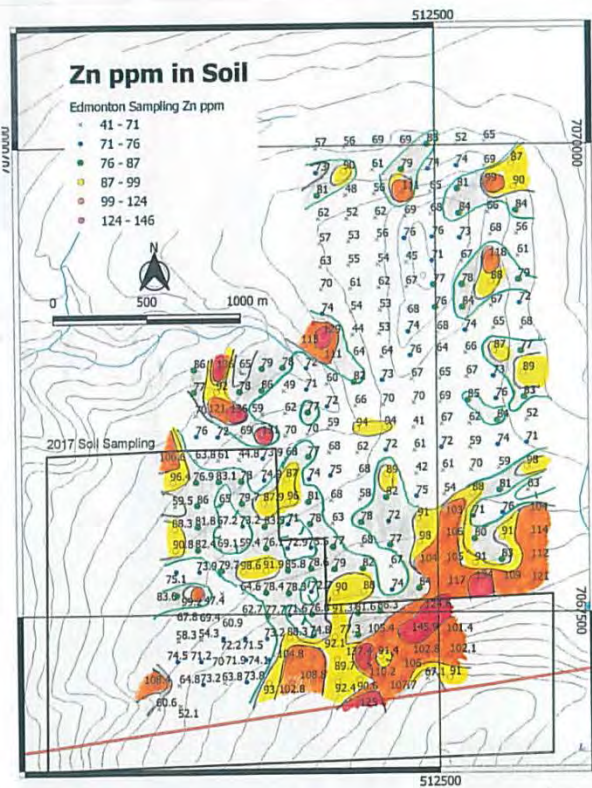
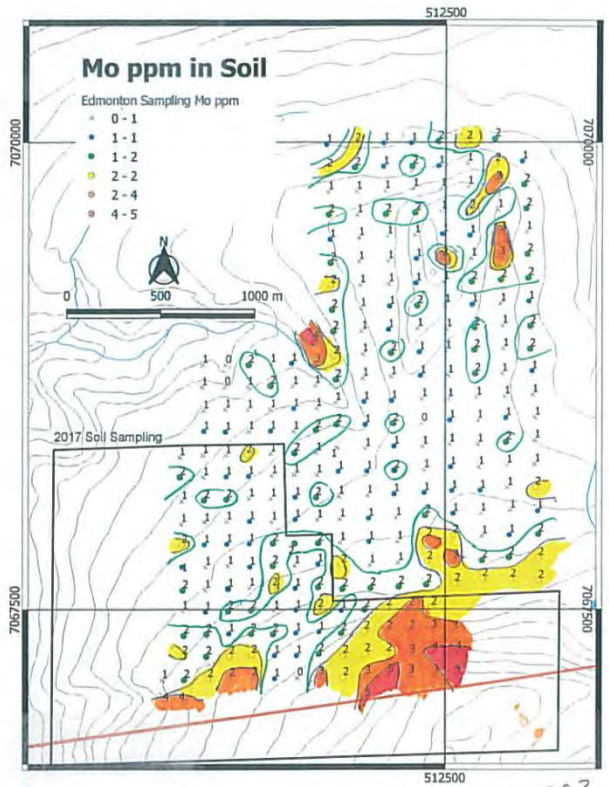
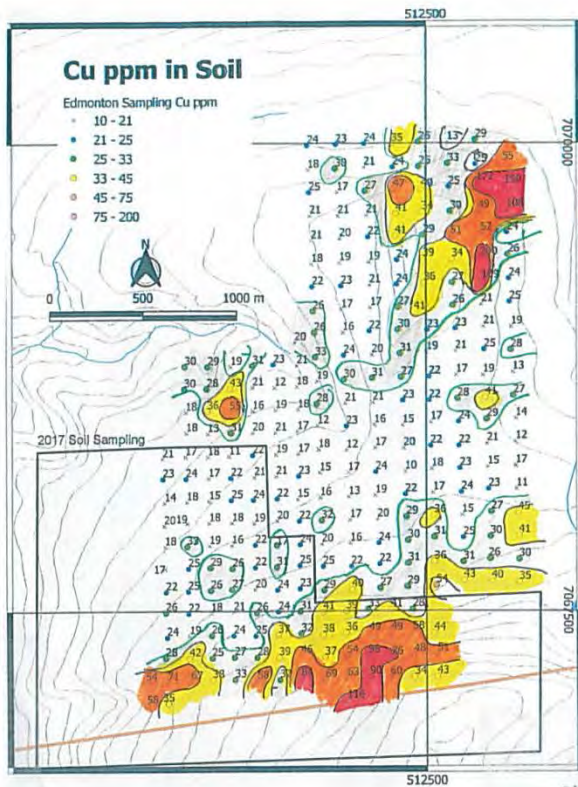


Figure 16. Contoured plots of copper (Cu), lead (Pb), zinc (Zn) and molybdenum (Mo).

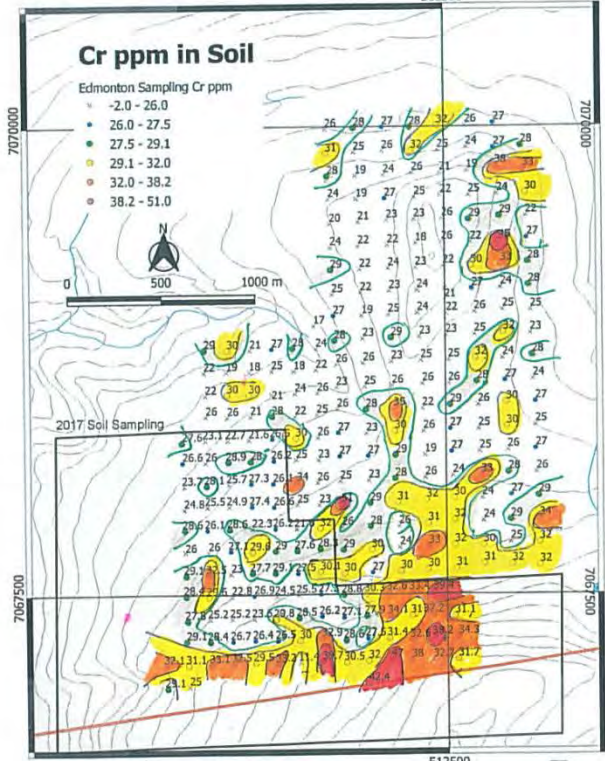
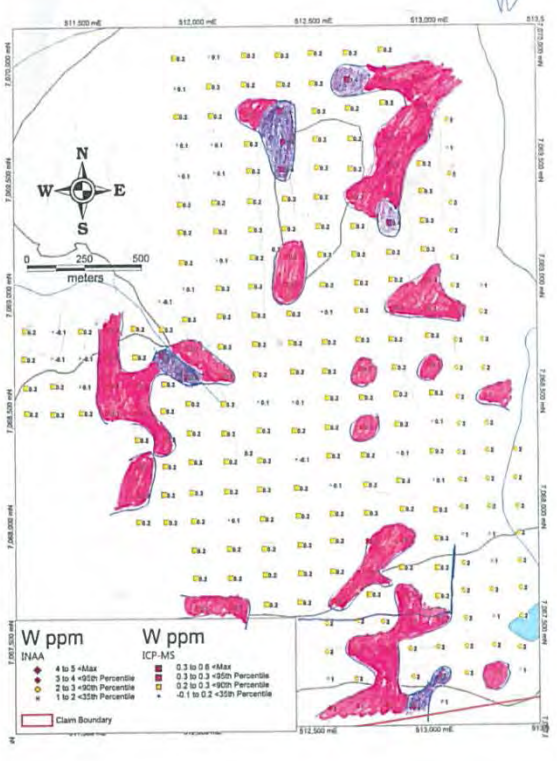
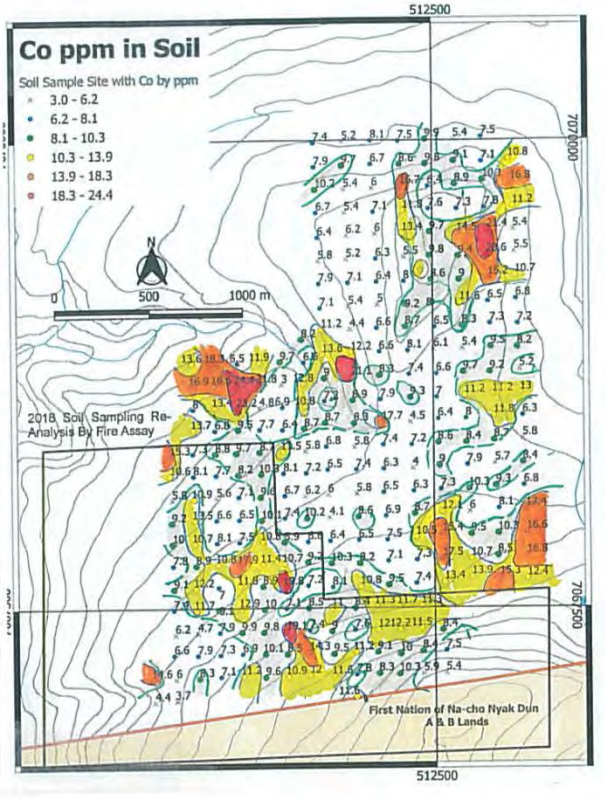
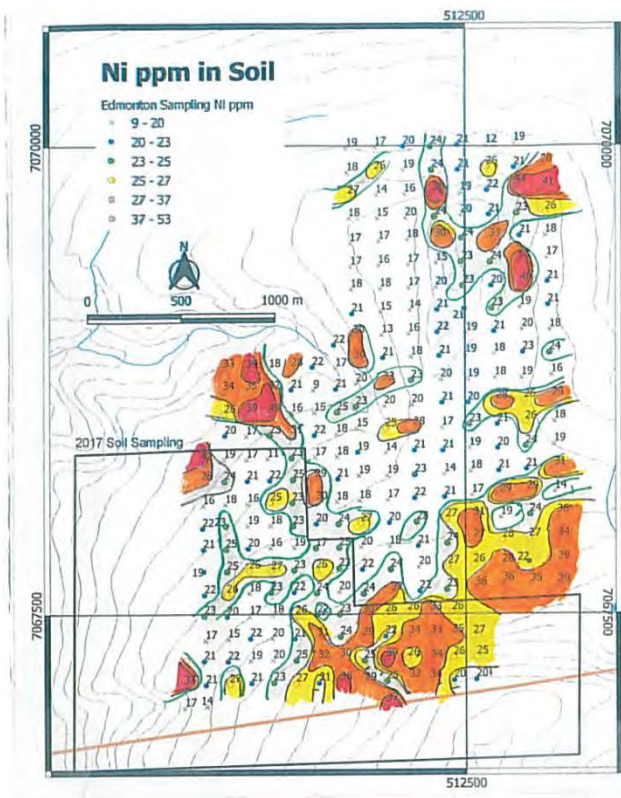


Figure 17. Contoured plots of nickel (Ni), chromium (Cr), cobalt (Co) and tungsten (W).

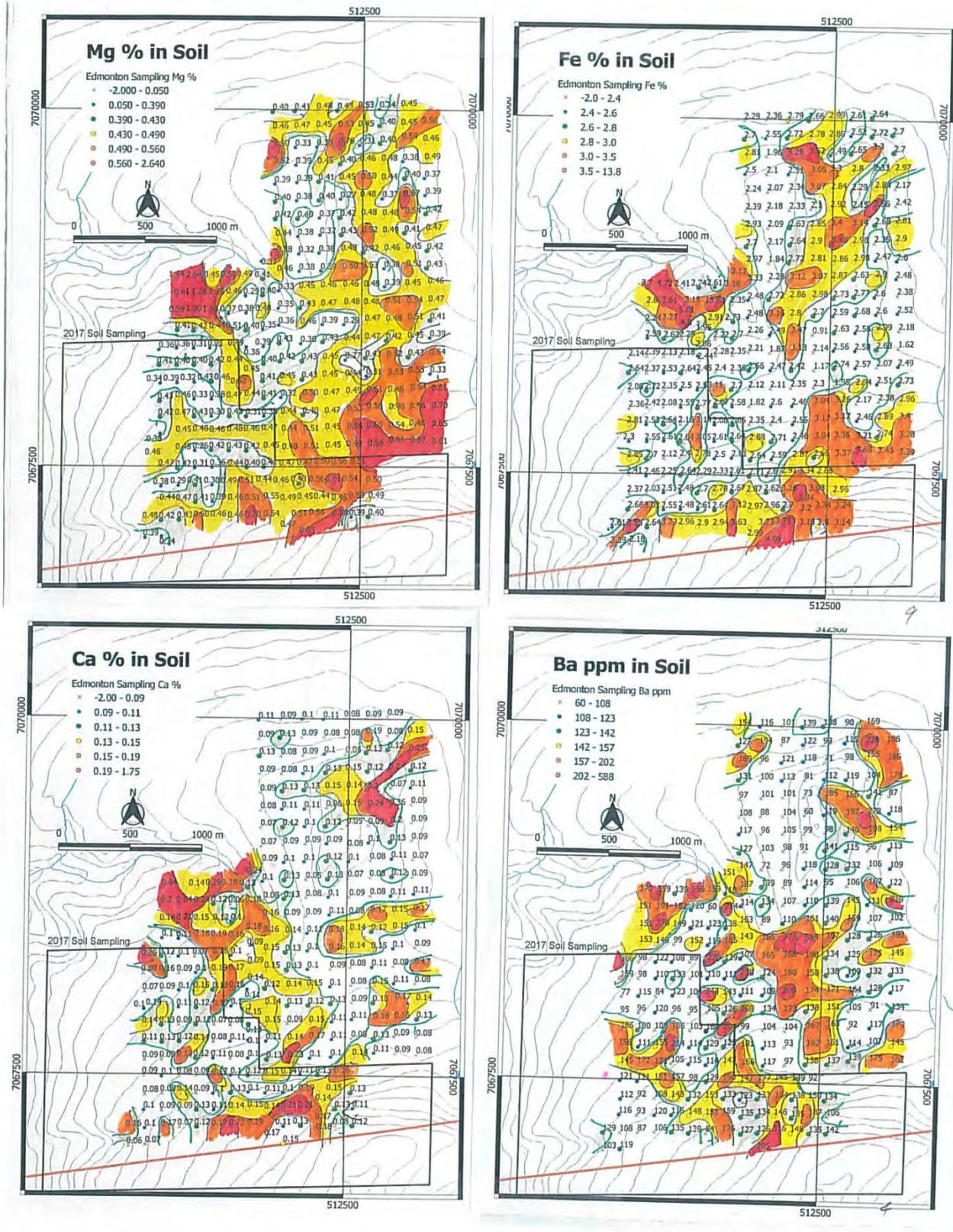


Figure 18. Contoured plots of iron (Fe), magnesium (Mg), calcium (Ca) and barium (Ba).

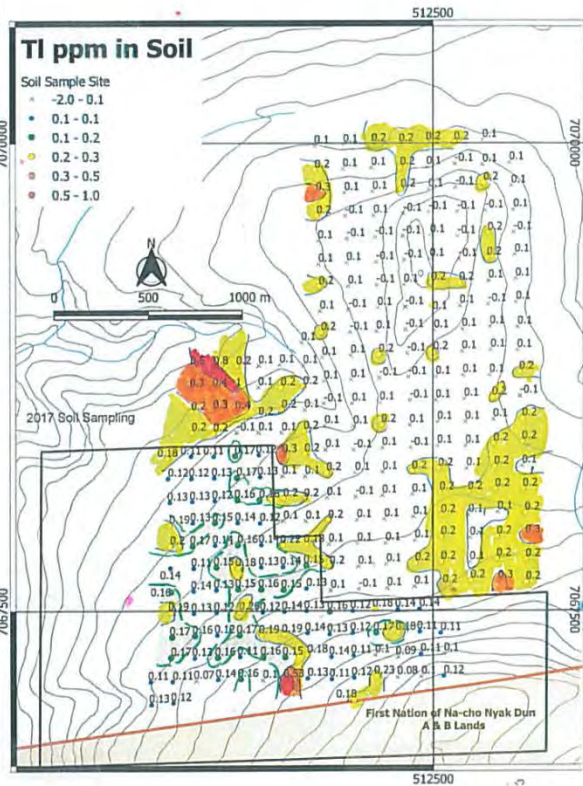
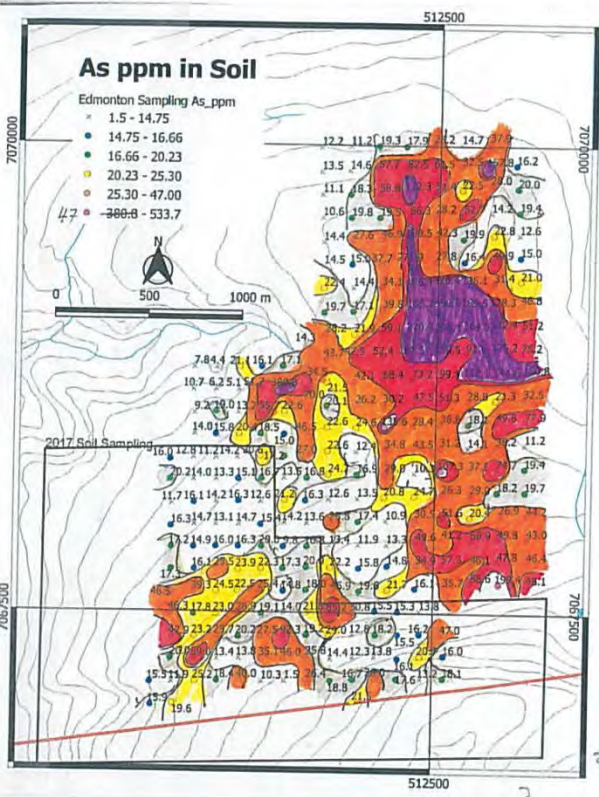
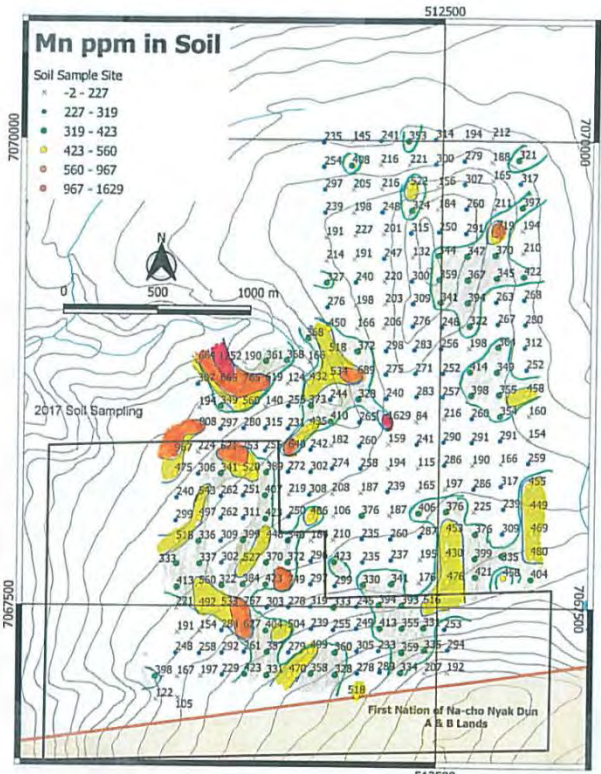
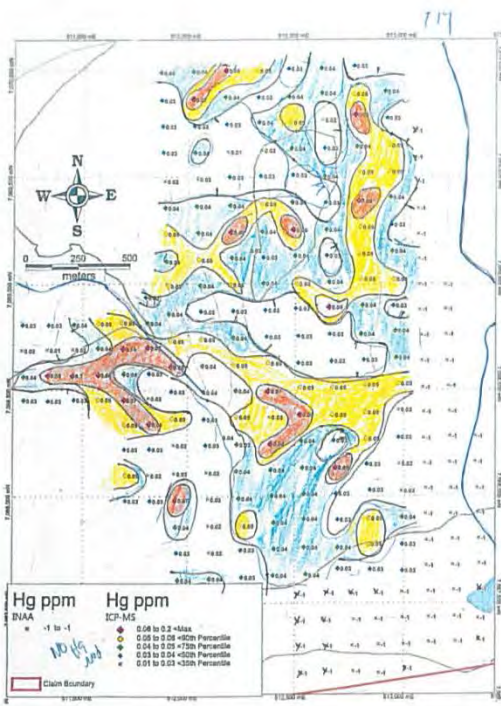


Figure 19. Contoured plots of arsenic (As), tellurium (Tl), manganese (Mn) and mercury (Hg).

Discussion.

Significant base metal anomalies, some with Au and Ag components, are present along the south edge of a major E-W trending oblong magnetic anomaly (Figure 14). The most westerly anomaly of these anomalies has a significant Ag component with sites yielding 0.7, 1.1 and 2.4 ppm Ag here where background is <0.1 ppm Ag. An area of very rusty boulders is present on the surface within the easterly anomaly; grabs of rusty float yielded values up to 46 ppb Au, 0.28% Zn and 30% Fe. These base metal anomalies appear to be related to the highly magnetic rim encircling the large oblong demagnetized anomaly.

The north edge of the large oblong magnetic anomaly is marked by an E-W trending Au anomaly with a Hg association. A number of elements, including gold, show short linear anomalies trending at NE, NW and N-S within the central part of the oblong magnetic anomaly. Base metal anomalies, open to the west, are encountered where the topography slopes down to the west. The airborne magnetics and the geochemical soil anomalies show a pattern that indicate these metallic anomalies have developed in fractured and faulted rock. In some instances the anomaly patterns suggest a ring pattern of faulting. These patterns in concert with alteration suggest that magma and fluids have moved along faults and joints from underlying intrusions.

The gold anomalies in the central part of the large oblong geophysical anomaly is most probably developed due to magnetic and fluid flow through fracturing over an intrusive (s) underlying much of the geophysical anomaly; the gold precipitating out as epithermal veins. The base metal anomalies may be from magma or fluids sourced from intrusions present near the periphery of the oblong magnetic anomaly.

The large oval shaped demagnetized anomaly is probably due to alteration related to heat and fluids emitting from buried intrusive. The potential for broad based gold, silver and base metal mineralization related to this large oblong anomaly is real. Depths to mineralization, other than to epithermal mineralization, with economic potential is not known at this time. The depths and grades, can only be tested by drilling.

In the north part of the total grid the NE trending anomaly showing mineral zonation paralleling the NE trend, e.g. metals such as Au, Cu and Ni (Figures 14-17), has the greatest potential for meaningful mineralization in that part of Edmonton. Although this metal anomaly parallels a small greenstone intrusion the values within the anomaly seem only partially affected by its presence. It appears that the greenstone was intruded into the Keno Hill quartzite and altered well before (i) the injection of intrusions or fluids carrying metals or the flow of fluids remobilizing metals; and (ii) the fracturing and faulting that the fluids moved through. The later two events are the likely cause of the present geochemical and geophysical anomalies and patterns. The faulting and jointing may have been penecontemporaneous with the later intrusions. Both can ultimately be related to the significant thrusting and tectonism that has affected this area.

Conclusion and Recommendations

Conclusion.

The 2017 soil sampling and in concert interpretation of airborne magnetics has confirmed that a large, 4 km by 2 km, oblong magnetic (demagnetized) anomaly hosts a broad gold in soil anomaly along its northern edge and numerous narrow linear gold in soil anomalies that reflect at least 4 linear magnetic and probable jointing trends. The alteration and mineralization appear to have developed over the roof of a buried intrusive carrying mineral rich fluids. Gold appears to have been the primary metal in some instances.

Around the margins of the oblong magnetic anomaly are numerous silver, base metal and pathfinder elements suggestive of buried more mafic intrusions or fluids that have remobilized metals from mafic rocks.

Recommendations.

The characteristics of the gold anomaly along the north edge of the oblong magnetic anomaly (Anomaly 4 on Figure 20) and the source of the narrow gold anomalies to its south are a priority. The nature of the overburden and permafrost at Edmonton makes trenching and mechanized probing difficult. The most efficient way to determine the true nature of Anomaly 4 may well be a couple of fences of shallow drill holes, 50-100m in length at shallow inclinations across Anomaly 4. To determine the possibility that the narrow gold anomalies might have a source having appropriate values over similar extents that would be economically viable, a couple of deep holes, 300 to 400m at steep inclinations is recommended.

The base metal anomalies on the flanks of the oblong magnetic anomaly (anomalies 1 and 2 on Figure 13) need further investigation. Some rock and frost-heaved boulders present here should be prospected in detail and analyzed. A couple of fences of shallow diamond drill holes at right angles to the edge of the magnetic anomaly may be in order, especially at Anomaly 2 where the highest Ag in soil values were determined.

If the above exercises yield positive results, some ground to the east and possibly southeast of Anomaly 1 along the edge of the First Nations lands should be staked.

Should the base metal anomalies appear fruitful, most certainly in the case of the western anomalies, it is recommended that MLM enter into discussions with the Na-cho Nyak Dun First Nation (NNDNFN) to determine if a joint venture or earn-in can be developed with the NNDNFN to explore their lands.

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Rampton, V.N. and Sutherland, T.B. 2013a
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Rampton, V.N. and Sutherland, T.B. 2013c
Mayo Lake Minerals Inc. Assessment report on the Davidson Claim Group 2012: Geophysical Interpretation and Geochemical Surveys and Interpretation; Yukon Energy, Mines & Resources Library.

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Appendices

- Appendix A. Statement of Qualification.
- Appendix B. 2017 Sample Locations.
- Appendix C. Bureau Veritas Assay Certificates.
- Appendix D. Geochemical Analytical Plots.
- Appendix E. Statement of Expenditures

Appendix A

Statement of Qualifications

Dr. V.N. Rampton, P.Eng.
Rampton Resources Group Inc.
P.O. Box 158, 110 Westhunt Drive
Carp, Ontario. K0A 1L0
Tel: (613) 836-2594; E-mail: vrampton@rogers.com

I, V.N. (Vern) Rampton, Ph.D., P.Eng., do hereby certify that

1. I am President of Rampton Resource Group Inc. and President and CEO of Mayo Lake Minerals Inc.
2. I graduated with a B.Sc. Eng. (Geology) from University of Manitoba in 1962 and with a Ph.D. (Geology) from University of Minnesota in 1969.
3. I am a member of the Professional Engineers of Ontario.
4. I have worked as a geologist for over 50 years, specifically in mineral exploration for the last 40 years, in Canada, Slovakia, Finland, Spain, Burkina Faso, Jamaica and the United States of America.
5. By reason of my education, affiliation with a professional organization (as defined in N.I. 43-101) and past relevant work experience, I fulfill the requirements of a "qualified person" for the purposes of N.I. 43-101.
6. By reason of my being CEO, President and a Director and my shareholdings in Mayo Lake Minerals Inc., I am not an "independent qualified person" for the purposes of N.I. 43-101.
7. I am a co-author of the technical report titled "Assessment Report on the Carlin-Roop Claim Group Describing the 2017 Soil Sampling Survey".
8. Certain statements concerning the interpretations and discussion of the data maybe considered forward looking statements in that although conceived from the data as recorded to the best of my knowledge may prove in need of variation or changed to reflect changes or updates to the data.

Dated the 19th day of March 2018



Vernon Neil Rampton

Tyrell Sutherland M.Sc. P.Geo.
Mayo Lake Minerals Inc.
P.O. Box 158, 110 Westhunt Drive
Carp, Ontario. K0A 1L0
Tel: (613) 884-8332; E-mail: tyrell.sutherland@outlook.com

I, T.B. Sutherland, M.Sc., do hereby certify that

1. I am Vice-President of Exploration of Mayo Lake Minerals Inc.
2. I graduated with a B.Sc. Honors Specialization Geology, from the University of Ottawa in 2009. In addition, I have obtained an M.Sc in Geology from Queens University in 2016.
3. I am a member in good standing of the Association of Professional Geoscientists of Ontario.
4. I have worked as a geologist for approximately 8 years, specifically in mineral exploration, in Canada, Australia, Jamaica and China.
5. I fulfill the requirements of a "qualified person" for the purposes of N.I. 43-101.
6. I am the senior co-author and to the best of my knowledge all data used in the preparation of the technical report titled "Assessment Report on the Carlin-Roop Claim Group Describing the 2017 Soil Sampling Survey" is correct and of good quality. The technical information contained within the report was collected under my supervision and I was primarily responsible for its interpretation.
7. Certain statements concerning the interpretations and discussion of the data maybe considered forward looking statements in that although conceived from the data as recorded to the best of my knowledge may prove in need of variation or changed to reflect changes or updates to the data.

Dated the 19th day of March 2018



Tyrell Brodie Sutherland

Appendix B
Sample Locations
WGS84 8N

Property	Sampler	Sample Type	Sample Number	Easting	Northing	Elevation	Date
Edmonton	RB	Soil	1890201	512556.3	7067152	1732.616	7/31/2017
Edmonton	RB	Soil	1890202	512557.8	7067272	1675.029	7/31/2017
Edmonton	RB	Soil	1890203	512540.1	7067381	1599.367	7/31/2017
Edmonton	RB	Soil	1890204	512191.4	7067509	1538.97	7/31/2017
Edmonton	RB	Soil	1890205	512196.4	7067383	1578.794	7/31/2017
Edmonton	RB	Soil	1890206	512192.2	7067264	1627.324	7/31/2017
Edmonton	RB	Soil	1890207	512200.2	7067151	1664.805	7/31/2017
Edmonton	RB	Soil	1890208	511832.7	7067141	1613.948	7/31/2017
Edmonton	RB	Soil	1890209	511830.8	7067264	1585.106	7/31/2017
Edmonton	RB	Soil	1890210	511832.7	7067381	1562.491	7/31/2017
Edmonton	RB	Soil	1890211	511828.3	7067499	1528.23	7/31/2017
Edmonton	RB	Soil	1890212	511827	7067619	1501.817	7/31/2017
Edmonton	RB	Soil	1890213	511826.4	7067744	1484.029	7/31/2017
Edmonton	RB	Soil	1890214	511827.7	7067855	1480.31	7/31/2017
Edmonton	RB	Soil	1890215	511448.2	7068329	1415.852	7/31/2017
Edmonton	RB	Soil	1890216	511457.8	7068214	1420.485	7/31/2017
Edmonton	RB	Soil	1890217	511460.3	7068094	1433.564	7/31/2017
Edmonton	RB	Soil	1890218	511462.9	7067972	1446.574	7/31/2017
Edmonton	RB	Soil	1890219	511462	7067852	1455.849	7/31/2017
Edmonton	RB	Soil	1890220	511464.6	7067728	1474.588	7/31/2017
Edmonton	RB	Soil	1890221	511463.3	7067616	1485.947	7/31/2017
Edmonton	RB	Soil	1890222	511470.5	7067495	1497.293	7/31/2017
Edmonton	RB	Soil	1890223	511470.4	7067370	1510.137	7/31/2017
Edmonton	RB	Soil	1890224	511474.2	7067255	1548.123	7/31/2017
Edmonton	RB	Soil	1890225	511476.7	7067137	1565.03	7/31/2017
Edmonton	RB	Soil	1890226	511119.5	7067010	1519.43	7/31/2017
Edmonton	RB	Soil	1890227	511115.1	7067123	1512.455	7/31/2017
Edmonton	RB	Soil	1890228	511105.8	7067250	1494.475	7/31/2017
Edmonton	RB	Soil	1890229	511113	7067359	1481.228	7/31/2017
Edmonton	RB	Soil	1890230	511106.6	7067491	1471.605	7/31/2017
Edmonton	RB	Soil	1890231	511107.8	7067601	1454.398	7/31/2017
Edmonton	RB	Soil	1890232	511103.9	7067726	1440.475	7/31/2017
Edmonton	RB	Field Duplicate	1890233	511103.9	7067726	1440.475	7/31/2017
Edmonton	RB	Soil	1890234	511103.1	7067844	1426.601	7/31/2017
Edmonton	RB	Soil	1890235	511099.4	7067956	1409.764	7/31/2017
Edmonton	RB	Soil	1890236	511102.4	7068079	1396.031	7/31/2017
Edmonton	RB	Soil	1890237	511092.5	7068208	1388.971	7/31/2017
Edmonton	RB	Soil	1890238	511091.1	7068315	1373.457	7/31/2017
Edmonton	JM	Soil	1890251	512437.5	7067149	1717.908	7/31/2017
Edmonton	JM	Soil	1890252	512433.4	7067269	1663.988	7/31/2017
Edmonton	JM	Soil	1890253	512428	7067387	1591.602	7/31/2017

Property	Sampler	Sample Type	Sample Number	Easting	Northing	Elevation	Date
Edmonton	JM	Soil	1890254	512427.1	7067509	1547.242	7/31/2017
Edmonton	JM	Soil	1890255	512073.4	7067499	1540.097	7/31/2017
Edmonton	JM	Soil	1890256	512072.8	7067382	1583.632	7/31/2017
Edmonton	JM	Soil	1890257	512076.6	7067262	1618.612	7/31/2017
Edmonton	JM	Soil	1890258	512079.4	7067144	1654.579	7/31/2017
Edmonton	JM	Soil	1890259	512079.2	7067025	1665.741	7/31/2017
Edmonton	JM	Soil	1890260	511718.3	7067134	1596.236	7/31/2017
Edmonton	JM	Soil	1890261	511713.2	7067253	1567.946	7/31/2017
Edmonton	JM	Soil	1890262	511709.8	7067373	1548.09	7/31/2017
Edmonton	JM	Soil	1890263	511710	7067496	1521.045	7/31/2017
Edmonton	JM	Soil	1890264	511706.6	7067612	1502.103	7/31/2017
Edmonton	JM	Soil	1890265	511703.1	7067735	1478.09	7/31/2017
Edmonton	JM	Soil	1890266	511702.5	7067852	1471.968	7/31/2017
Edmonton	JM	Field Duplicate	1890267	511702.5	7067852	1471.968	7/31/2017
Edmonton	JM	Soil	1890268	511335.7	7068327	1412.391	7/31/2017
Edmonton	JM	Soil	1890269	511338.6	7068211	1418.035	7/31/2017
Edmonton	JM	Soil	1890270	511340.5	7068090	1427.725	7/31/2017
Edmonton	JM	Soil	1890271	511341	7067971	1439.554	7/31/2017
Edmonton	JM	Soil	1890272	511342.3	7067849	1450.002	7/31/2017
Edmonton	JM	Soil	1890273	511347.7	7067732	1466.826	7/31/2017
Edmonton	JM	Soil	1890274	511348.7	7067611	1482.136	7/31/2017
Edmonton	JM	Soil	1890275	511349.2	7067491	1498.71	7/31/2017
Edmonton	JM	Soil	1890276	511352.5	7067370	1518.587	7/31/2017
Edmonton	JM	Soil	1890277	511354.4	7067251	1540.199	7/31/2017
Edmonton	JM	Soil	1890278	511357.5	7067134	1558.395	7/31/2017
Edmonton	JM	Soil	1890279	511002.7	7067000	1483.275	7/31/2017
Edmonton	JM	Soil	1890280	510997.6	7067122	1493.591	7/31/2017
Edmonton	TS	Soil	1890301	512308.8	7067148	1650.654	7/31/2017
Edmonton	TS	Soil	1890302	512314.3	7067254	1622.374	7/31/2017
Edmonton	TS	Soil	1890303	512313.5	7067384	1552.989	7/31/2017
Edmonton	TS	Soil	1890304	512311.5	7067507	1513.248	7/31/2017
Edmonton	TS	Soil	1890305	511951	7067495	1507.443	7/31/2017
Edmonton	TS	Soil	1890306	511950.3	7067375	1541.521	7/31/2017
Edmonton	TS	Soil	1890307	511960	7067254	1574.318	7/31/2017
Edmonton	TS	Soil	1890308	511961.9	7067136	1597.073	7/31/2017
Edmonton	TS	Soil	1890309	511596	7067131	1546.407	7/31/2017
Edmonton	TS	Soil	1890310	511596.4	7067254	1521.459	7/31/2017
Edmonton	TS	Soil	1890311	511588.7	7067369	1503.068	7/31/2017
Edmonton	TS	Soil	1890312	511593.9	7067492	1484.147	7/31/2017
Edmonton	TS	Soil	1890313	511586	7067615	1465.179	7/31/2017
Edmonton	TS	Soil	1890314	511587.1	7067733	1449.516	7/31/2017
Edmonton	TS	Soil	1890315	511588	7067853	1437.954	7/31/2017
Edmonton	TS	Soil	1890316	511581	7067969	1425.645	7/31/2017
Edmonton	TS	Soil	1890317	511577.7	7068095	1415.575	7/31/2017

Property	Sampler	Sample Type	Sample Number	Easting	Northing	Elevation	Date
Edmonton	TS	Soil	1890318	511582.3	7068218	1407.135	7/31/2017
Edmonton	TS	Soil	1890319	511574.8	7068335	1398.524	7/31/2017
Edmonton	TS	Soil	1890320	511214.8	7068327	1369.241	7/31/2017
Edmonton	TS	Soil	1890321	511216.8	7068209	1380.865	7/31/2017
Edmonton	TS	Soil	1890322	511221.2	7068084	1390.257	7/31/2017
Edmonton	TS	Soil	1890323	511224	7067970	1402.309	7/31/2017
Edmonton	TS	Soil	1890324	511222.6	7067846	1415.76	7/31/2017
Edmonton	TS	Soil	1890325	511228.7	7067727	1432.84	7/31/2017
Edmonton	TS	Soil	1890326	511227.5	7067604	1446.223	7/31/2017
Edmonton	TS	Soil	1890327	511228.6	7067486	1457.492	7/31/2017
Edmonton	TS	Soil	1890328	511234.2	7067367	1470.94	7/31/2017
Edmonton	TS	Soil	1890329	511232.7	7067248	1489.343	7/31/2017
Edmonton	TS	Soil	1890330	511241.3	7067127	1508.469	7/31/2017

Appendix C
Assay Certificates



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Mayo Lake Minerals Inc.**
107 Falldown Lane
Carp Ontario K0A 1L0 Canada

Submitted By: Tyrell Sutherland
Receiving Lab: Canada-Whitehorse
Received: August 03, 2017
Report Date: February 16, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000476.2

CLIENT JOB INFORMATION

Project: Edmonton
Shipment ID:
P.O. Number
Number of Samples: 98

SAMPLE DISPOSAL

RTRN-PLP Return After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Mayo Lake Minerals Inc.
107 Falldown Lane
Carp Ontario K0A 1L0
Canada

CC: Vern Rampton

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY040	98	Dry @ 40 Deg. C.			WHI
SS80	98	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251	98	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	98	Per sample shipping charges for branch shipments			VAN
FA430	95	Lead Collection Fire Assay Fusion - AAS Finish	30	Completed	VAN
EN002	98	Environmental disposal charge-Fire assay lead waste			VAN

ADDITIONAL COMMENTS

Version 2 : FA430 included.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Mayo Lake Minerals Inc.**

107 Falldown Lane
Carp Ontario K0A 1L0 Canada

Project: Edmonton

Report Date: February 16, 2019

Page: 2 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000476.2

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1890201	Soil	4.21	43.15	12.09	91.0	453	20.2	5.4	192	3.14	18.1	2.0	4.0	2.1	16.1	0.27	1.40	0.37	51	0.12	0.096
1890202	Soil	4.03	51.39	14.07	102.1	371	25.3	7.5	294	3.24	16.0	2.2	3.7	3.3	15.4	0.46	1.03	0.40	54	0.11	0.092
1890203	Soil	3.15	44.08	12.67	101.4	303	26.5	8.4	253	2.96	47.0	2.0	2.5	2.7	16.9	0.46	1.02	0.33	49	0.13	0.075
1890204	Soil	1.89	32.61	12.78	86.3	140	25.9	11.3	394	2.91	15.5	1.5	3.3	1.9	12.9	0.20	0.94	0.27	51	0.11	0.063
1890205	Soil	2.22	49.08	13.10	105.4	245	33.9	12.0	413	3.16	18.2	1.8	3.4	3.9	19.4	0.35	0.95	0.31	49	0.19	0.088
1890206	Soil	2.05	95.51	8.94	91.4	204	26.4	9.1	233	2.70	13.8	1.3	2.9	2.6	22.5	0.39	0.98	0.22	47	0.21	0.100
1890207	Soil	4.95	89.67	16.76	110.2	650	31.9	8.3	289	3.75	26.0	3.0	2.8	1.5	20.9	0.36	1.39	0.46	71	0.13	0.146
1890208	Soil	2.95	83.95	14.40	108.8	405	37.7	12.0	358	3.63	26.4	2.2	9.7	3.5	19.8	0.39	1.04	0.42	62	0.19	0.117
1890209	Soil	1.72	45.94	13.35	100.2	128	30.4	14.3	499	3.12	25.8	1.6	5.0	3.5	14.7	0.29	0.91	0.31	51	0.15	0.076
1890210	Soil	1.49	32.17	10.01	74.8	165	24.3	7.4	239	2.67	19.2	1.3	5.3	1.9	12.3	0.23	0.89	0.24	39	0.10	0.060
1890211	Soil	1.73	30.84	10.81	76.8	101	23.2	8.5	319	2.61	21.8	1.5	2.1	1.0	13.7	0.30	0.94	0.25	44	0.12	0.071
1890212	Soil	1.55	23.42	10.33	72.7	87	20.0	7.2	297	2.61	18.0	1.0	1.7	1.5	12.2	0.18	0.88	0.24	49	0.10	0.048
1890213	Soil	1.47	24.59	10.48	78.6	69	23.3	9.2	296	2.64	20.0	1.2	2.0	1.2	11.5	0.23	0.88	0.25	48	0.10	0.052
1890214	Soil	1.67	24.46	11.96	75.5	318	24.8	6.6	184	2.66	16.8	1.8	1.3	0.5	17.6	0.21	0.81	0.31	50	0.13	0.102
1890215	Soil	1.95	11.35	10.03	44.8	86	10.6	9.7	753	2.18	14.2	0.7	3.8	0.7	9.0	0.15	0.77	0.27	52	0.07	0.048
1890216	Soil	1.45	21.83	10.27	78.0	159	21.9	8.2	520	2.64	15.1	1.3	10.6	1.1	11.2	0.23	0.76	0.24	43	0.10	0.069
1890217	Soil	1.16	24.91	12.46	79.7	152	25.3	7.1	251	2.50	16.3	1.3	2.3	4.3	13.8	0.22	0.80	0.23	41	0.15	0.067
1890218	Soil	1.47	17.76	11.08	73.2	81	18.2	6.5	311	2.55	14.7	1.0	5.3	1.6	11.7	0.22	0.92	0.22	46	0.12	0.062
1890219	Soil	1.32	15.77	11.95	59.4	222	16.1	7.5	399	2.16	16.3	1.2	1.2	0.3	14.8	0.23	0.57	0.25	39	0.12	0.083
1890220	Soil	1.36	25.74	11.81	98.6	263	27.2	17.9	527	2.64	23.9	1.7	1.0	0.6	16.1	0.19	0.55	0.28	48	0.14	0.074
1890221	Soil	1.26	27.44	11.42	64.6	215	23.4	11.8	384	2.40	22.5	1.3	3.6	2.1	11.5	0.13	0.74	0.23	42	0.12	0.071
1890222	Soil	1.68	20.98	16.65	62.7	119	17.7	12.9	757	2.64	28.9	1.6	1.3	0.7	11.1	0.23	0.77	0.31	49	0.09	0.079
1890223	Soil	1.71	23.50	15.29	71.5	96	19.5	9.9	627	2.48	20.2	1.1	4.9	0.8	11.0	0.33	0.74	0.28	47	0.09	0.064
1890224	Soil	1.80	26.64	8.98	71.9	122	19.7	6.9	261	2.48	13.8	1.1	3.5	2.0	12.6	0.26	0.84	0.22	46	0.13	0.062
1890225	Soil	2.27	33.05	10.42	73.8	504	23.2	11.2	423	2.96	40.0	2.1	2.3	0.9	13.9	0.29	0.75	0.25	50	0.12	0.088
1890226	Soil	3.66	35.30	12.93	52.1	1050	13.7	3.5	105	2.22	19.6	2.0	2.3	0.7	13.9	0.39	0.87	1.45	44	0.08	0.074
1890227	Soil	1.64	71.06	7.60	64.8	361	21.1	6.0	167	3.55	11.9	1.6	2.1	2.6	12.9	0.18	0.88	0.20	46	0.10	0.073
1890228	Soil	1.95	27.67	12.29	74.5	216	21.3	6.6	248	2.68	20.0	1.5	3.0	1.4	12.5	0.20	0.86	0.27	47	0.10	0.049
1890229	Soil	1.67	24.15	11.73	58.3	339	16.9	6.2	191	2.37	47.9	1.5	7.6	0.4	10.0	0.19	0.67	0.28	49	0.08	0.070
1890230	Soil	1.08	25.65	11.29	67.8	207	22.7	7.4	221	2.41	46.3	1.0	1.7	2.3	10.0	0.12	0.62	0.23	39	0.09	0.046



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	FA430
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.005
1890201	Soil	21.7	31.7	0.40	142.3	0.018	2	1.13	0.006	0.04	0.2	2.2	0.12	0.04	56	2.2	0.09	4.0	0.007
1890202	Soil	24.1	34.3	0.49	105.7	0.024	2	1.38	0.009	0.05	0.3	2.5	0.10	0.05	45	1.5	0.07	4.0	0.005
1890203	Soil	23.0	31.1	0.50	134.1	0.021	2	1.32	0.008	0.05	0.2	2.5	0.11	0.03	35	1.1	0.06	4.0	<0.005
1890204	Soil	16.2	32.6	0.50	145.2	0.029	2	1.65	0.006	0.06	0.2	2.3	0.18	0.03	32	0.6	0.04	5.2	0.005
1890205	Soil	21.6	34.1	0.56	184.4	0.038	2	1.57	0.009	0.08	0.2	3.0	0.17	0.04	42	0.7	0.06	4.7	<0.005
1890206	Soil	18.1	31.4	0.44	145.8	0.035	2	1.27	0.009	0.06	0.2	2.6	0.10	0.03	36	0.9	0.04	4.2	0.005
1890207	Soil	30.3	47.0	0.56	315.9	0.022	2	2.03	0.007	0.06	0.3	3.4	0.23	0.12	90	1.6	0.09	6.5	I.S.
1890208	Soil	23.3	39.7	0.54	175.8	0.042	2	1.84	0.009	0.06	0.4	4.4	0.13	0.04	54	1.0	0.04	5.1	0.006
1890209	Soil	20.4	32.9	0.55	158.5	0.039	3	1.67	0.008	0.07	0.3	3.1	0.18	0.03	34	0.5	0.05	4.5	0.006
1890210	Soil	16.8	26.2	0.44	133.4	0.031	2	1.25	0.006	0.06	0.2	2.1	0.14	0.04	26	0.5	0.03	4.0	<0.005
1890211	Soil	16.9	27.3	0.41	190.1	0.020	2	1.31	0.006	0.06	0.2	1.7	0.13	0.05	25	0.5	0.05	4.5	0.005
1890212	Soil	15.2	30.1	0.45	146.5	0.032	2	1.31	0.006	0.06	0.3	1.9	0.13	0.03	27	0.4	0.05	4.6	0.011
1890213	Soil	15.2	28.3	0.47	124.5	0.027	2	1.55	0.005	0.06	0.3	2.0	0.15	0.03	26	0.5	0.03	4.8	0.006
1890214	Soil	14.1	32.0	0.38	203.7	0.021	3	1.57	0.007	0.07	0.2	1.6	0.18	0.09	46	0.7	0.02	5.9	<0.005
1890215	Soil	12.5	21.6	0.21	108.3	0.030	1	0.94	0.004	0.06	0.2	1.1	0.17	0.04	31	0.3	0.04	5.0	<0.005
1890216	Soil	15.4	28.0	0.42	133.2	0.023	2	1.52	0.005	0.06	0.3	1.5	0.17	0.05	31	0.3	0.04	4.5	0.007
1890217	Soil	20.2	27.3	0.43	123.0	0.040	2	1.44	0.005	0.09	0.4	2.6	0.16	<0.02	21	0.3	0.03	4.3	<0.005
1890218	Soil	17.2	27.4	0.38	96.2	0.029	2	1.39	0.006	0.06	0.4	1.8	0.14	0.02	25	0.5	0.04	4.5	<0.005
1890219	Soil	13.8	22.3	0.30	185.7	0.013	2	1.19	0.006	0.06	0.2	0.9	0.16	0.08	40	0.3	0.03	4.3	0.005
1890220	Soil	15.0	29.6	0.46	213.7	0.016	2	1.64	0.007	0.06	0.2	1.4	0.18	0.08	27	0.3	0.03	5.1	0.007
1890221	Soil	15.9	27.7	0.42	105.1	0.031	2	1.41	0.005	0.05	0.2	2.0	0.15	0.03	34	0.3	0.03	4.2	0.006
1890222	Soil	17.0	26.9	0.36	157.0	0.019	1	1.38	0.005	0.06	0.2	1.3	0.26	0.08	19	0.4	0.06	5.2	<0.005
1890223	Soil	14.6	23.6	0.30	142.5	0.024	<1	1.16	0.004	0.06	0.2	1.4	0.17	0.05	21	0.4	0.06	4.9	<0.005
1890224	Soil	15.7	26.4	0.39	115.8	0.031	2	1.21	0.005	0.05	0.3	2.0	0.11	0.02	22	0.6	0.04	4.3	0.008
1890225	Soil	19.9	29.5	0.46	134.9	0.021	2	1.55	0.006	0.05	0.2	1.9	0.16	0.06	42	1.4	0.04	4.7	0.005
1890226	Soil	32.4	25.0	0.35	123.5	0.011	1	1.07	0.004	0.04	0.2	0.9	0.12	0.04	65	1.2	0.07	4.5	0.005
1890227	Soil	16.6	31.1	0.42	107.8	0.038	1	1.42	0.008	0.05	0.2	2.7	0.11	0.06	39	1.6	0.04	3.8	0.006
1890228	Soil	18.8	29.1	0.44	115.5	0.024	2	1.41	0.005	0.07	0.2	1.8	0.17	0.03	38	0.6	0.05	5.1	<0.005
1890229	Soil	13.6	27.8	0.38	111.5	0.020	1	1.38	0.005	0.06	0.1	1.3	0.17	0.06	39	0.4	0.05	5.9	<0.005
1890230	Soil	17.9	28.4	0.47	120.5	0.027	1	1.52	0.005	0.07	0.2	2.0	0.19	0.02	17	0.4	0.04	5.0	<0.005



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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	%
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1890231	Soil	1.63	22.47	12.61	83.6	187	21.9	9.1	413	2.85	46.5	1.4	1.3	1.2	11.7	0.16	0.83	0.32	48	0.09	0.060
1890232	Soil	1.37	16.61	9.85	75.1	134	20.5	7.8	369	2.45	20.7	1.2	1.2	0.7	12.2	0.30	0.66	0.36	43	0.11	0.055
1890233	Soil	1.23	16.75	8.26	73.6	139	19.1	7.6	333	2.30	17.3	1.3	0.8	0.3	14.2	0.36	0.57	0.28	43	0.12	0.069
1890234	Soil	1.99	18.46	11.59	90.8	142	21.1	10.0	518	2.81	17.2	1.3	2.9	0.6	15.9	0.29	0.64	0.33	48	0.14	0.063
1890235	Soil	1.12	19.74	10.70	88.3	62	21.7	9.2	299	2.36	16.3	1.0	3.5	2.5	10.3	0.26	0.65	0.26	36	0.10	0.054
1890236	Soil	1.25	14.24	9.65	59.5	70	15.8	5.8	240	2.08	11.7	0.9	6.8	0.5	7.8	0.16	0.57	0.26	37	0.07	0.050
1890237	Soil	1.54	23.33	10.27	96.4	154	27.7	10.6	475	2.64	20.2	1.3	4.0	0.7	10.5	0.24	0.75	0.30	44	0.09	0.063
1890238	Soil	0.89	20.99	12.30	106.6	1032	41.5	15.3	967	2.14	16.0	1.7	2.3	0.7	22.3	0.55	0.41	0.32	34	0.26	0.105
1890251	Soil	3.09	34.23	12.10	67.1	371	20.2	5.9	207	2.80	13.2	1.4	4.1	0.6	11.9	0.38	0.72	0.33	56	0.08	0.093
1890252	Soil	4.01	48.40	13.24	102.8	531	26.1	8.4	335	3.34	20.7	2.3	4.7	2.0	16.9	0.39	0.95	0.39	57	0.13	0.105
1890253	Soil	3.00	57.70	12.88	145.9	296	35.0	11.5	331	3.08	16.2	2.1	2.1	2.9	16.3	0.69	0.83	0.33	53	0.15	0.092
1890254	Soil	2.09	27.73	13.85	124.6	106	25.8	11.3	516	2.88	13.8	1.1	2.6	0.6	13.1	0.77	0.62	0.26	55	0.16	0.087
1890255	Soil	1.62	38.69	10.72	81.6	185	25.6	8.4	245	2.60	30.8	1.5	4.0	0.8	14.2	0.30	0.77	0.23	47	0.14	0.074
1890256	Soil	1.90	35.84	10.05	77.3	166	21.6	7.6	249	2.62	12.8	1.4	2.5	0.7	12.2	0.28	0.87	0.23	48	0.10	0.073
1890257	Soil	1.99	54.35	13.56	137.4	208	38.8	11.2	305	2.96	12.3	1.6	3.4	5.3	16.2	0.46	0.88	0.20	43	0.21	0.084
1890258	Soil	3.27	63.30	11.81	90.6	274	24.5	7.8	278	3.23	16.7	1.9	4.5	4.3	14.3	0.34	1.29	0.31	56	0.11	0.083
1890259	Soil	5.16	116.10	16.25	125.0	594	36.9	11.6	518	4.08	21.5	3.0	3.0	2.4	19.3	0.45	1.21	0.58	72	0.15	0.172
1890260	Soil	0.25	31.62	7.23	102.8	236	21.4	10.9	470	2.94	1.5	0.7	1.2	9.2	8.9	0.43	0.17	0.11	12	0.72	0.025
1890261	Soil	1.34	38.82	10.27	104.8	165	32.3	8.5	279	2.64	46.0	1.4	2.6	2.4	12.6	0.29	0.72	0.22	45	0.14	0.065
1890262	Soil	1.34	37.04	12.13	88.3	232	31.4	19.1	504	2.78	92.3	1.5	4.4	2.4	14.4	0.22	0.65	0.29	40	0.13	0.059
1890263	Soil	1.43	23.94	10.41	71.6	105	21.8	7.1	278	2.33	14.0	1.2	2.6	0.6	11.4	0.24	0.69	0.22	40	0.10	0.073
1890264	Soil	1.49	24.46	9.92	78.3	107	23.6	19.8	749	2.50	14.8	1.1	1.9	1.1	9.5	0.20	0.71	0.23	42	0.08	0.054
1890265	Soil	1.21	31.38	11.30	85.8	127	26.2	10.7	372	2.61	17.3	1.6	8.7	3.8	10.7	0.23	0.74	0.23	42	0.11	0.060
1890266	Soil	1.00	26.44	12.76	72.9	166	24.7	9.1	340	2.56	15.0	1.3	4.9	3.3	10.4	0.10	0.56	0.24	36	0.08	0.045
1890267	Soil	1.50	17.33	9.62	54.6	327	16.8	5.9	255	2.08	9.8	1.4	1.5	0.3	10.1	0.12	0.53	0.22	37	0.07	0.112
1890268	Soil	1.22	17.53	10.96	61.0	130	17.4	8.8	621	2.13	11.2	0.9	0.9	0.4	11.5	0.21	0.59	0.21	38	0.10	0.072
1890269	Soil	1.31	17.45	10.10	83.1	111	20.5	7.7	341	2.53	13.3	1.1	4.4	1.5	10.4	0.20	0.65	0.23	46	0.09	0.061
1890270	Soil	1.51	14.96	9.53	65.0	74	15.9	5.6	262	2.35	14.2	0.9	2.8	1.0	10.0	0.20	0.69	0.22	43	0.10	0.059
1890271	Soil	1.20	18.14	8.54	67.2	97	18.7	6.6	262	2.08	13.1	0.9	3.5	1.0	10.6	0.18	0.56	0.20	42	0.11	0.052
1890272	Soil	1.33	18.88	9.76	69.1	70	20.1	8.1	309	2.64	16.0	0.9	1.2	1.1	10.3	0.14	0.62	0.30	45	0.09	0.048



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	FA430
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.005	
1890231	Soil	16.8	29.1	0.46	145.1	0.020	<1	1.61	0.005	0.06	0.2	1.8	0.16	0.04	40	0.6	0.04	5.6	0.005
1890232	Soil	14.6	25.6	0.38	156.2	0.019	1	1.32	0.005	0.06	0.2	1.4	0.13	0.04	18	0.4	0.05	4.4	<0.005
1890233	Soil	13.8	26.0	0.36	183.0	0.015	1	1.30	0.005	0.06	0.2	1.1	0.14	0.06	20	0.3	0.04	4.4	<0.005
1890234	Soil	15.6	28.6	0.42	186.0	0.019	1	1.49	0.006	0.07	0.2	1.3	0.20	0.05	22	0.5	0.07	5.1	<0.005
1890235	Soil	16.6	24.8	0.43	95.0	0.034	1	1.48	0.004	0.10	0.2	2.1	0.19	<0.02	39	0.3	0.02	4.3	<0.005
1890236	Soil	12.0	23.7	0.34	77.1	0.019	1	1.19	0.004	0.05	0.2	1.1	0.13	0.03	26	0.2	0.03	4.3	<0.005
1890237	Soil	13.6	26.6	0.41	158.5	0.021	2	1.48	0.005	0.06	0.2	1.5	0.12	0.05	26	0.4	0.04	4.2	0.007
1890238	Soil	21.0	27.6	0.36	365.8	0.013	2	1.53	0.007	0.05	0.1	1.3	0.18	0.07	64	0.3	<0.02	4.3	0.007
1890251	Soil	15.2	32.7	0.39	134.6	0.018	1	1.25	0.005	0.03	0.2	1.5	0.10	0.09	85	0.7	0.05	4.3	0.006
1890252	Soil	22.9	38.2	0.50	186.6	0.019	1	1.55	0.007	0.04	0.2	2.3	0.11	0.07	65	1.2	0.06	5.1	0.006
1890253	Soil	22.5	37.2	0.54	149.8	0.027	1	1.47	0.008	0.05	0.3	2.9	0.11	0.04	30	1.0	0.05	4.3	0.005
1890254	Soil	14.7	39.4	0.51	92.4	0.020	1	1.49	0.006	0.03	0.2	1.5	0.14	0.06	26	0.7	0.03	5.0	<0.005
1890255	Soil	16.3	30.3	0.47	177.1	0.024	2	1.49	0.007	0.05	0.2	1.8	0.12	0.05	41	0.4	0.03	4.7	<0.005
1890256	Soil	15.0	27.9	0.43	133.4	0.021	1	1.34	0.006	0.04	0.2	1.6	0.12	0.05	19	0.6	0.05	4.4	0.005
1890257	Soil	18.6	27.5	0.45	133.6	0.049	2	1.22	0.006	0.07	0.2	2.6	0.11	0.02	38	0.7	0.03	3.6	0.007
1890258	Soil	21.5	32.0	0.51	125.7	0.033	1	1.50	0.006	0.05	0.3	3.5	0.12	0.02	34	1.1	0.06	4.8	0.006
1890259	Soil	24.2	42.4	0.63	205.3	0.028	1	2.24	0.012	0.07	0.4	3.8	0.18	0.09	74	1.8	0.09	6.1	0.010
1890260	Soil	11.7	11.4	0.70	84.3	0.092	2	0.98	0.005	0.30	<0.1	1.0	0.53	0.05	12	0.8	<0.02	2.1	<0.005
1890261	Soil	19.3	30.0	0.51	152.6	0.032	2	1.53	0.006	0.06	0.2	2.8	0.15	0.03	32	0.4	0.03	4.0	<0.005
1890262	Soil	17.3	28.5	0.51	152.6	0.032	<1	1.50	0.006	0.06	0.2	2.2	0.19	0.04	30	0.5	0.05	4.5	0.006
1890263	Soil	12.6	25.5	0.40	129.4	0.022	2	1.26	0.006	0.06	0.2	1.4	0.14	0.05	38	0.7	0.04	4.4	<0.005
1890264	Soil	14.1	27.5	0.42	113.6	0.028	<1	1.41	0.005	0.05	0.2	1.6	0.15	0.04	35	0.4	0.03	4.4	0.277
1890265	Soil	19.3	27.6	0.46	129.1	0.036	<1	1.49	0.005	0.06	0.3	2.5	0.14	<0.02	44	0.4	0.03	4.1	0.006
1890266	Soil	18.8	25.1	0.49	161.7	0.037	<1	1.43	0.005	0.07	0.2	2.2	0.19	<0.02	21	0.3	0.04	4.6	<0.005
1890267	Soil	10.7	21.6	0.31	114.4	0.016	1	1.28	0.006	0.05	0.1	0.7	0.22	0.11	48	0.5	0.03	4.6	I.S.
1890268	Soil	12.1	22.7	0.31	122.2	0.021	<1	1.07	0.006	0.05	0.2	1.0	0.11	0.06	36	0.5	<0.02	3.8	0.012
1890269	Soil	16.6	28.9	0.40	110.0	0.032	<1	1.47	0.004	0.06	0.3	2.0	0.13	<0.02	39	0.4	<0.02	4.8	0.009
1890270	Soil	14.9	25.7	0.32	84.1	0.029	1	1.25	0.004	0.05	0.3	1.3	0.12	0.03	46	0.4	0.02	4.4	0.006
1890271	Soil	14.2	24.9	0.33	120.4	0.029	<1	1.18	0.004	0.06	0.3	1.3	0.15	0.02	32	0.3	0.03	4.3	<0.005
1890272	Soil	13.8	28.6	0.43	108.0	0.028	2	1.44	0.005	0.05	0.2	1.4	0.14	0.03	20	0.3	0.03	4.9	<0.005



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1890273	Soil	1.06	29.07	10.06	79.7	346	26.1	10.8	302	2.61	25.5	1.3	2.6	0.9	11.6	0.12	0.51	0.29	40	0.12	0.063
1890274	Soil	1.52	26.03	11.72	47.4	566	17.6	7.0	322	2.02	22.8	3.0	2.2	0.2	16.4	0.24	0.50	0.22	31	0.17	0.194
1890275	Soil	1.63	18.09	10.20	60.9	192	16.8	9.1	533	2.25	23.0	0.9	1.3	0.4	10.5	0.34	0.56	0.25	41	0.08	0.063
1890276	Soil	1.47	25.53	9.70	72.2	148	22.2	7.9	284	2.51	25.7	1.1	2.8	1.1	11.8	0.24	0.73	0.26	44	0.14	0.078
1890277	Soil	1.73	25.48	10.18	70.0	352	18.9	7.3	292	2.55	13.4	1.9	2.5	0.5	10.8	0.28	0.72	0.23	42	0.09	0.080
1890278	Soil	2.32	37.99	10.73	63.8	712	21.2	7.1	229	3.23	18.4	2.4	3.8	0.8	10.5	0.21	0.79	0.25	55	0.07	0.064
1890279	Soil	3.90	58.34	11.62	60.6	2393	17.0	4.4	122	3.39	15.9	3.2	8.5	1.2	22.7	0.29	0.78	0.75	49	0.06	0.098
1890280	Soil	1.19	53.67	8.47	108.4	107	37.2	14.6	398	2.61	15.5	1.0	4.7	2.6	14.6	0.31	0.81	0.14	49	0.16	0.066
1890301	Soil	2.93	59.63	10.74	107.7	266	33.8	10.3	334	3.18	17.6	1.8	3.7	4.0	17.1	0.56	1.02	0.30	59	0.18	0.096
1890302	Soil	3.43	75.94	9.89	106.0	373	34.0	10.0	359	3.20	16.1	1.9	5.4	2.6	17.7	0.70	1.01	0.23	56	0.17	0.106
1890303	Soil	2.34	49.29	13.05	133.7	246	33.4	12.2	355	3.84	15.5	2.3	2.3	6.3	17.1	0.44	0.76	0.27	44	0.14	0.089
1890304	Soil	2.37	40.74	11.99	115.4	242	33.3	11.7	393	3.34	15.3	2.0	4.4	3.1	14.2	0.42	0.96	0.28	54	0.13	0.094
1890305	Soil	1.45	40.68	10.64	91.3	151	29.5	11.0	333	2.71	85.2	1.7	2.4	2.3	13.8	0.38	0.74	0.44	41	0.15	0.088
1890306	Soil	1.55	37.75	10.68	92.1	131	28.8	9.0	255	2.87	24.0	1.4	0.7	2.4	12.1	0.25	0.73	0.27	43	0.11	0.067
1890307	Soil	1.91	36.51	10.76	89.7	261	25.0	9.5	360	2.97	14.4	1.5	1.3	2.5	13.9	0.31	0.79	0.25	46	0.14	0.079
1890308	Soil	1.85	69.25	10.65	92.4	201	29.4	11.6	328	2.99	18.8	1.7	5.2	3.7	16.1	0.34	0.80	0.25	47	0.17	0.089
1890309	Soil	1.45	58.19	8.37	93.0	143	27.2	9.6	331	2.90	10.3	1.6	1.6	3.8	13.8	0.48	0.65	0.19	48	0.17	0.078
1890310	Soil	1.37	28.45	12.41	74.1	119	24.7	10.1	357	2.61	35.1	1.3	15.3	1.3	11.2	0.24	0.69	0.28	44	0.11	0.061
1890311	Soil	1.54	25.11	11.34	73.2	134	21.1	9.8	404	2.70	27.5	1.2	0.2	0.7	10.8	0.17	0.67	0.29	49	0.10	0.064
1890312	Soil	1.13	26.21	8.64	77.7	83	25.6	10.0	303	2.29	19.1	1.0	42.1	3.8	12.3	0.25	0.59	0.17	38	0.17	0.064
1890313	Soil	1.75	19.65	11.94	78.4	82	21.9	8.9	423	2.78	25.4	1.0	1.2	1.5	11.3	0.39	0.77	0.27	49	0.11	0.056
1890314	Soil	1.60	21.56	12.62	91.9	93	23.0	11.4	370	3.05	22.3	1.2	0.8	2.3	9.4	0.25	0.83	0.30	45	0.08	0.051
1890315	Soil	1.70	22.21	17.99	76.1	98	19.3	10.8	448	3.14	20.0	1.3	3.4	1.5	9.5	0.16	0.78	0.31	49	0.07	0.069
1890316	Soil	1.28	19.32	13.80	83.5	42	22.7	10.1	423	2.77	15.4	0.9	0.4	3.5	13.1	0.27	0.79	0.21	45	0.17	0.078
1890317	Soil	1.09	23.52	10.91	87.9	95	23.2	9.6	407	2.50	12.6	1.1	8.5	3.2	11.0	0.27	0.65	0.20	40	0.13	0.068
1890318	Soil	1.06	21.35	10.03	74.9	57	24.6	10.3	389	2.45	16.7	0.9	0.6	3.6	11.5	0.22	0.63	0.20	37	0.15	0.070
1890319	Soil	1.04	21.87	9.16	73.9	41	22.9	8.7	255	2.44	20.6	0.7	1.6	3.1	11.9	0.27	0.53	0.16	36	0.18	0.087
1890320	Soil	1.09	16.94	9.54	63.8	150	18.9	7.3	224	2.39	12.8	1.0	3.1	2.1	10.0	0.18	0.57	0.22	39	0.12	0.051
1890321	Soil	1.19	23.78	8.95	76.9	111	23.9	8.1	306	2.37	14.0	1.1	1.9	2.5	12.4	0.28	0.66	0.20	40	0.16	0.073
1890322	Soil	1.65	17.83	11.30	86.0	102	18.0	10.9	543	2.72	16.1	1.1	2.6	0.6	10.1	0.30	0.82	0.24	50	0.09	0.072



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	FA430
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.005	
1890273	Soil	15.1	27.1	0.48	154.9	0.020	<1	1.60	0.005	0.05	0.2	1.7	0.15	0.04	22	0.4	0.03	4.2	<0.005
1890274	Soil	17.5	21.8	0.26	170.9	0.003	1	1.42	0.007	0.05	0.1	0.3	0.12	0.20	47	0.6	0.02	3.8	I.S.
1890275	Soil	13.3	22.8	0.31	151.0	0.020	1	1.14	0.004	0.05	0.2	1.0	0.12	0.06	27	0.3	0.03	4.4	<0.005
1890276	Soil	13.9	25.2	0.41	108.0	0.029	2	1.34	0.005	0.05	0.2	1.7	0.12	0.03	27	0.6	0.03	3.9	<0.005
1890277	Soil	14.8	26.7	0.41	119.5	0.020	<1	1.31	0.005	0.05	0.2	1.4	0.16	0.08	25	0.9	0.05	4.8	0.007
1890278	Soil	18.3	32.5	0.50	106.1	0.019	1	1.73	0.005	0.04	0.2	2.2	0.14	0.04	49	2.1	0.03	4.8	0.006
1890279	Soil	29.4	29.1	0.39	103.2	0.015	<1	1.39	0.004	0.04	0.1	1.8	0.13	0.05	45	2.5	0.07	4.9	0.006
1890280	Soil	14.2	32.1	0.48	129.3	0.034	<1	1.55	0.006	0.05	0.3	3.4	0.11	0.02	44	0.4	0.03	3.7	0.007
1890301	Soil	20.8	38.0	0.58	148.3	0.030	<1	1.42	0.009	0.04	0.2	3.4	0.08	0.03	36	1.3	0.05	4.6	0.006
1890302	Soil	19.2	32.6	0.46	134.8	0.030	2	1.37	0.008	0.05	0.3	2.6	0.09	0.04	58	1.6	0.04	4.1	0.006
1890303	Soil	27.5	31.0	0.61	138.4	0.044	1	1.60	0.007	0.13	0.2	2.8	0.18	0.04	16	0.9	0.06	4.2	0.006
1890304	Soil	20.2	33.4	0.56	148.9	0.034	<1	1.67	0.008	0.07	0.3	2.7	0.14	0.04	35	0.9	0.07	4.3	0.009
1890305	Soil	19.1	28.8	0.47	146.7	0.030	1	1.34	0.007	0.05	0.2	2.4	0.16	0.03	34	0.5	0.03	4.1	0.005
1890306	Soil	20.1	27.1	0.46	122.6	0.032	2	1.48	0.006	0.05	0.2	2.1	0.13	0.03	43	0.7	0.05	3.9	<0.005
1890307	Soil	18.4	28.6	0.49	134.6	0.037	2	1.45	0.007	0.06	0.2	2.6	0.14	0.04	17	1.0	0.04	4.1	<0.005
1890308	Soil	21.6	30.5	0.47	126.7	0.036	<1	1.43	0.008	0.06	0.3	3.1	0.11	0.03	39	0.8	0.02	3.9	0.006
1890309	Soil	19.5	33.2	0.46	139.3	0.046	<1	1.32	0.005	0.05	0.2	3.2	0.10	<0.02	20	0.6	0.03	3.4	0.008
1890310	Soil	18.5	26.5	0.46	147.6	0.032	1	1.42	0.006	0.07	0.2	1.8	0.16	0.03	25	0.7	0.04	4.6	<0.005
1890311	Soil	14.7	29.8	0.49	131.8	0.025	<1	1.64	0.006	0.06	0.2	1.6	0.19	0.05	24	0.6	0.06	4.9	<0.005
1890312	Soil	15.8	24.5	0.44	98.3	0.037	<1	1.42	0.006	0.06	0.2	2.3	0.12	<0.02	45	0.6	0.03	3.6	<0.005
1890313	Soil	16.2	29.1	0.43	115.1	0.030	<1	1.55	0.005	0.06	0.3	2.0	0.16	0.02	37	0.5	0.05	4.8	<0.005
1890314	Soil	16.1	29.0	0.48	113.7	0.032	<1	1.70	0.005	0.06	0.3	2.3	0.13	<0.02	35	0.4	0.03	5.2	<0.005
1890315	Soil	17.5	26.2	0.43	103.4	0.030	1	1.54	0.005	0.07	0.3	1.9	0.14	0.03	30	0.5	0.04	5.0	<0.005
1890316	Soil	17.7	26.6	0.47	95.4	0.046	<1	1.43	0.005	0.08	0.4	2.3	0.12	<0.02	45	0.6	0.02	4.4	<0.005
1890317	Soil	16.9	26.1	0.46	104.3	0.043	<1	1.48	0.005	0.11	0.3	2.3	0.16	<0.02	40	0.5	0.03	3.9	0.006
1890318	Soil	15.8	26.2	0.44	101.0	0.040	<1	1.35	0.005	0.06	0.3	2.0	0.13	<0.02	21	0.5	0.03	4.0	<0.005
1890319	Soil	13.6	26.5	0.49	89.4	0.045	<1	1.55	0.006	0.08	0.2	2.2	0.12	<0.02	21	0.4	0.02	4.1	0.005
1890320	Soil	15.5	23.1	0.36	98.3	0.031	<1	1.18	0.006	0.05	0.3	1.7	0.11	<0.02	28	0.4	<0.02	3.7	0.005
1890321	Soil	16.3	26.0	0.40	98.0	0.038	1	1.43	0.005	0.05	0.4	2.2	0.12	<0.02	27	0.5	0.04	3.7	0.007
1890322	Soil	14.4	28.1	0.39	115.2	0.022	<1	1.56	0.005	0.06	0.2	1.5	0.13	0.02	25	0.7	0.04	4.8	<0.005



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1890323	Soil	0.95	18.43	11.03	81.8	60	23.2	13.5	497	2.43	14.7	0.9	1.2	3.3	11.2	0.34	0.59	0.20	39	0.14	0.063
1890324	Soil	1.48	32.66	12.22	82.4	105	25.0	10.7	336	2.53	14.9	1.6	2.1	3.5	12.6	0.23	0.72	0.21	40	0.13	0.060
1890325	Soil	1.23	24.58	9.55	73.9	62	24.6	8.9	337	2.55	16.1	1.0	<0.2	1.8	10.6	0.15	0.62	0.20	41	0.13	0.055
1890326	Soil	1.25	24.64	9.47	99.2	290	26.1	12.2	560	2.70	39.3	1.6	0.2	0.9	10.7	0.20	0.53	0.30	43	0.09	0.065
1890327	Soil	1.33	22.28	10.24	69.4	165	20.4	11.7	492	2.46	17.8	1.1	0.7	1.2	9.9	0.16	0.63	0.19	45	0.10	0.062
1890328	Soil	1.72	18.83	9.76	54.3	259	15.4	4.7	154	2.03	23.2	1.4	2.8	0.1	9.6	0.13	0.65	0.22	44	0.08	0.092
1890329	Soil	1.71	41.62	11.10	71.2	204	21.5	7.9	258	3.01	59.0	2.2	10.6	2.3	9.3	0.18	0.80	0.26	46	0.09	0.061
1890330	Soil	1.86	67.23	6.57	73.2	607	27.1	8.3	197	2.64	25.2	1.8	2.1	3.3	13.3	0.25	0.68	0.19	43	0.17	0.076



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	FA430
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.005
1890323	Soil	16.0	25.5	0.46	95.8	0.047	<1	1.37	0.006	0.08	0.2	2.4	0.13	<0.02	23	0.3	0.04	4.2	0.006
1890324	Soil	20.5	26.1	0.47	129.6	0.036	<1	1.48	0.006	0.06	0.3	2.7	0.17	<0.02	29	0.5	0.04	3.9	<0.005
1890325	Soil	15.8	26.0	0.45	111.2	0.031	<1	1.42	0.005	0.05	0.2	1.9	0.11	<0.02	27	0.4	0.04	4.2	0.006
1890326	Soil	16.7	32.5	0.48	172.1	0.022	<1	1.68	0.005	0.05	0.3	2.0	0.14	0.04	28	0.6	0.03	5.0	<0.005
1890327	Soil	15.2	29.6	0.42	110.7	0.033	<1	1.44	0.005	0.05	0.2	2.2	0.13	0.02	29	0.6	0.03	4.4	0.006
1890328	Soil	10.1	25.2	0.29	92.3	0.009	<1	1.17	0.005	0.05	0.2	0.5	0.16	0.10	40	0.6	0.05	4.7	<0.005
1890329	Soil	19.8	28.4	0.47	93.3	0.028	<1	1.49	0.005	0.05	0.2	2.6	0.13	0.02	31	0.9	0.03	4.4	0.009
1890330	Soil	18.8	33.1	0.43	86.8	0.030	<1	1.26	0.005	0.04	0.2	3.1	0.07	0.03	33	1.2	0.02	3.1	0.007



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Project: Edmonton
Report Date: February 16, 2019

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QUALITY CONTROL REPORT

WHI17000476.2

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
1890213	Soil	1.47	24.59	10.48	78.6	69	23.3	9.2	296	2.64	20.0	1.2	2.0	1.2	11.5	0.23	0.88	0.25	48	0.10	0.052
REP 1890213	QC																				
1890226	Soil	3.66	35.30	12.93	52.1	1050	13.7	3.5	105	2.22	19.6	2.0	2.3	0.7	13.9	0.39	0.87	1.45	44	0.08	0.074
REP 1890226	QC	3.86	34.90	12.97	53.6	1068	14.2	3.7	100	2.18	20.3	2.1	2.5	0.6	14.9	0.41	0.84	1.49	43	0.07	0.077
1890260	Soil	0.25	31.62	7.23	102.8	236	21.4	10.9	470	2.94	1.5	0.7	1.2	9.2	8.9	0.43	0.17	0.11	12	0.72	0.025
REP 1890260	QC																				
1890274	Soil	1.52	26.03	11.72	47.4	566	17.6	7.0	322	2.02	22.8	3.0	2.2	0.2	16.4	0.24	0.50	0.22	31	0.17	0.194
REP 1890274	QC	1.42	26.13	12.35	50.2	521	18.0	7.3	344	2.12	24.5	3.2	2.3	<0.1	17.1	0.24	0.54	0.21	33	0.17	0.209
1890312	Soil	1.13	26.21	8.64	77.7	83	25.6	10.0	303	2.29	19.1	1.0	42.1	3.8	12.3	0.25	0.59	0.17	38	0.17	0.064
REP 1890312	QC																				
1890316	Soil	1.28	19.32	13.80	83.5	42	22.7	10.1	423	2.77	15.4	0.9	0.4	3.5	13.1	0.27	0.79	0.21	45	0.17	0.078
REP 1890316	QC																				
1890323	Soil	0.95	18.43	11.03	81.8	60	23.2	13.5	497	2.43	14.7	0.9	1.2	3.3	11.2	0.34	0.59	0.20	39	0.14	0.063
REP 1890323	QC	0.96	18.77	10.90	76.5	57	22.8	12.8	508	2.42	14.6	0.9	0.6	3.2	11.3	0.32	0.58	0.20	38	0.14	0.061
Reference Materials																					
STD DS11	Standard	14.29	150.47	139.44	344.0	1635	82.3	13.8	971	2.99	42.2	2.6	70.5	7.8	68.4	2.29	9.63	12.30	48	0.99	0.069
STD DS11	Standard	14.77	153.43	141.96	340.9	1714	82.6	14.0	1062	3.08	41.3	2.7	76.1	7.8	66.2	2.33	8.25	12.71	50	1.04	0.067
STD DS11	Standard	14.72	156.91	143.38	345.4	1686	85.2	14.1	1066	3.12	42.5	2.5	68.4	7.4	66.2	2.39	8.11	12.56	50	1.04	0.070
STD OXC129	Standard	1.26	27.58	6.17	39.4	10	76.5	19.9	416	3.00	0.8	0.7	178.6	1.8	187.0	0.04	0.03	0.02	52	0.66	0.087
STD OXC129	Standard	1.28	27.42	6.25	38.9	11	81.2	21.5	426	3.01	0.3	0.7	184.1	1.8	178.6	0.02	0.03	<0.02	53	0.65	0.100
STD OXC129	Standard	1.25	27.40	6.15	41.3	11	82.3	21.0	405	2.95	0.6	0.7	189.9	1.7	183.2	0.03	0.03	<0.02	51	0.62	0.098
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXC129 Expected		1.3	28	6.3	42.9	13	79.5	20.3	421	3.065	0.6	0.69	195	1.9		0.03	0.04		51	0.684	0.102



QUALITY CONTROL REPORT

WHI17000476.2

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	FA430	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.005
Pulp Duplicates																			
1890213	Soil	15.2	28.3	0.47	124.5	0.027	2	1.55	0.005	0.06	0.3	2.0	0.15	0.03	26	0.5	0.03	4.8	0.006
REP 1890213	QC																		<0.005
1890226	Soil	32.4	25.0	0.35	123.5	0.011	1	1.07	0.004	0.04	0.2	0.9	0.12	0.04	65	1.2	0.07	4.5	0.005
REP 1890226	QC	32.2	25.8	0.34	118.6	0.010	1	1.06	0.004	0.04	0.1	1.0	0.13	0.04	68	1.2	0.08	4.4	
1890260	Soil	11.7	11.4	0.70	84.3	0.092	2	0.98	0.005	0.30	<0.1	1.0	0.53	0.05	12	0.8	<0.02	2.1	<0.005
REP 1890260	QC																		<0.005
1890274	Soil	17.5	21.8	0.26	170.9	0.003	1	1.42	0.007	0.05	0.1	0.3	0.12	0.20	47	0.6	0.02	3.8	I.S.
REP 1890274	QC	17.8	23.0	0.27	189.9	0.006	<1	1.48	0.007	0.05	0.2	0.5	0.13	0.20	51	1.0	0.04	4.1	
1890312	Soil	15.8	24.5	0.44	98.3	0.037	<1	1.42	0.006	0.06	0.2	2.3	0.12	<0.02	45	0.6	0.03	3.6	<0.005
REP 1890312	QC																		0.021
1890316	Soil	17.7	26.6	0.47	95.4	0.046	<1	1.43	0.005	0.08	0.4	2.3	0.12	<0.02	45	0.6	0.02	4.4	<0.005
REP 1890316	QC																		0.005
1890323	Soil	16.0	25.5	0.46	95.8	0.047	<1	1.37	0.006	0.08	0.2	2.4	0.13	<0.02	23	0.3	0.04	4.2	0.006
REP 1890323	QC	16.5	24.9	0.46	96.3	0.048	<1	1.35	0.005	0.08	0.2	2.5	0.13	<0.02	30	0.4	0.04	3.9	
Reference Materials																			
STD DS11	Standard	18.5	63.1	0.82	358.3	0.094	7	1.11	0.074	0.39	3.0	2.9	5.00	0.25	257	2.0	4.62	4.7	
STD DS11	Standard	18.9	60.6	0.83	381.0	0.095	8	1.13	0.072	0.40	3.1	3.1	4.98	0.27	280	2.3	4.56	4.7	
STD DS11	Standard	17.7	63.4	0.84	360.4	0.095	8	1.13	0.069	0.39	3.1	3.2	4.82	0.28	259	2.4	4.58	4.8	
STD OXC129	Standard	11.9	52.6	1.46	46.9	0.404	1	1.52	0.575	0.36	<0.1	0.9	0.03	<0.02	<5	0.2	<0.02	4.9	
STD OXC129	Standard	12.5	55.4	1.53	48.4	0.417	<1	1.53	0.590	0.38	<0.1	1.3	0.04	<0.02	<5	0.1	<0.02	5.3	
STD OXC129	Standard	12.1	52.6	1.50	45.8	0.411	1	1.46	0.578	0.36	<0.1	1.0	0.03	<0.02	<5	0.1	<0.02	4.9	
STD OXC145	Standard																		0.212
STD OXC145	Standard																		0.212
STD OXH139	Standard																		1.289
STD OXH139	Standard																		1.324
STD OXN134	Standard																		7.550
STD OXN134	Standard																		7.656
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655	0.08	1.1	0.03					5.5	



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QUALITY CONTROL REPORT

WHI17000476.2

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
STD DS11 Expected		14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OXN134 Expected																					
STD OXC145 Expected																					
STD OXH139 Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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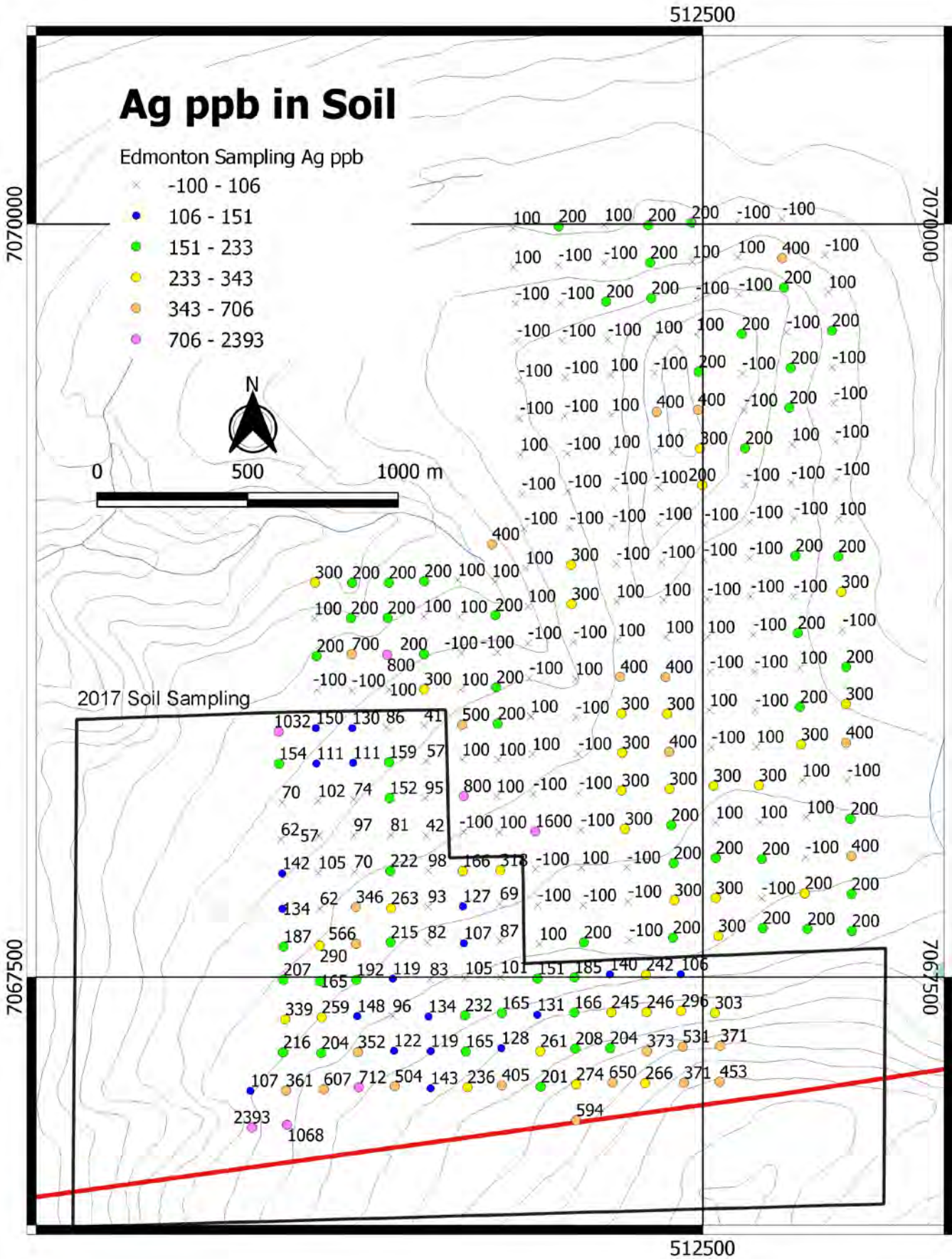
QUALITY CONTROL REPORT

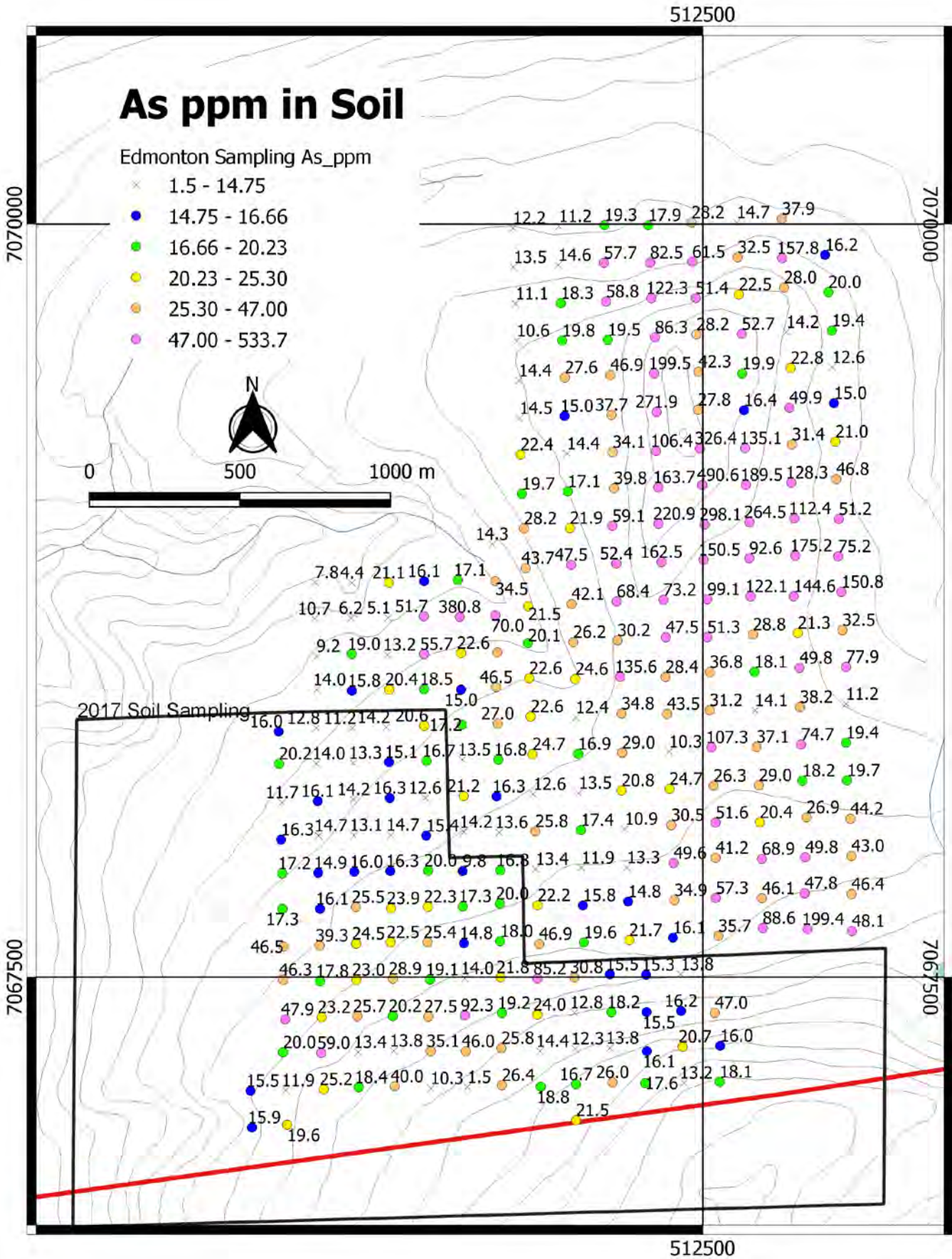
WHI17000476.2

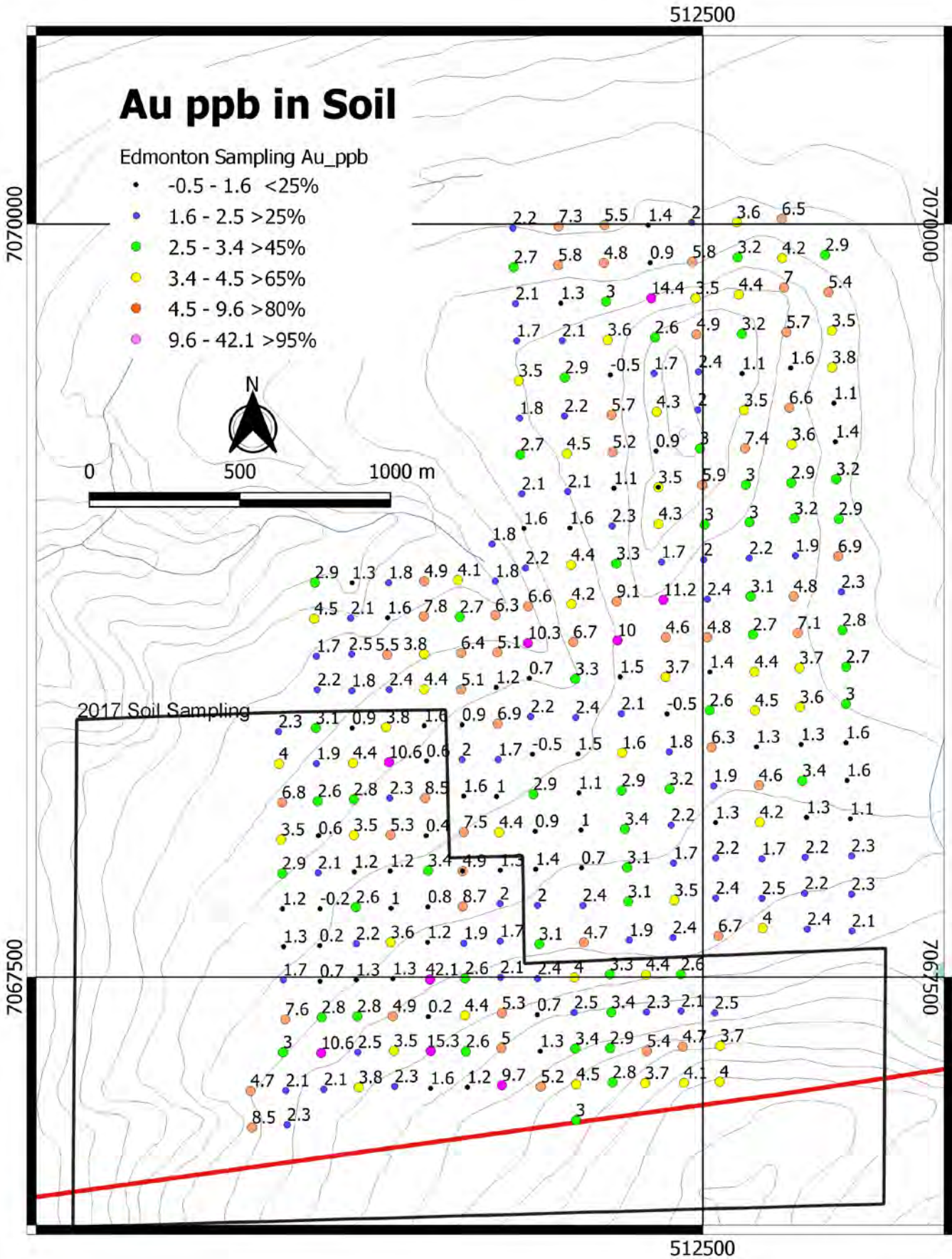
	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	FA430
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Au
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.005
STD DS11 Expected	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	
STD OXN134 Expected																		7.667
STD OXC145 Expected																		0.212
STD OXH139 Expected																		1.312
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	7	<0.1	<0.02	<0.1
BLK	Blank																	<0.005
BLK	Blank																	<0.005
BLK	Blank																	<0.005
BLK	Blank																	<0.005

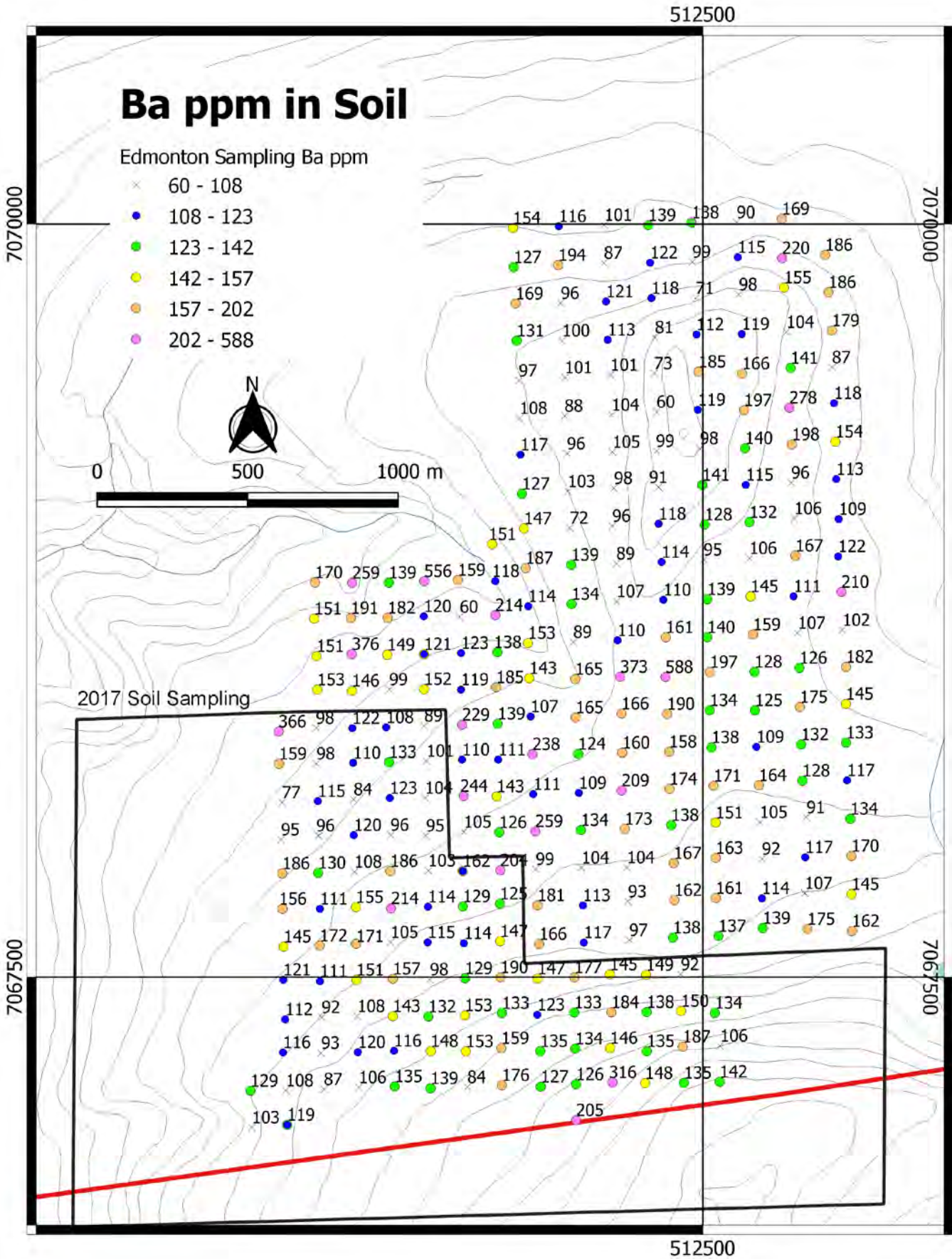
Appendix D

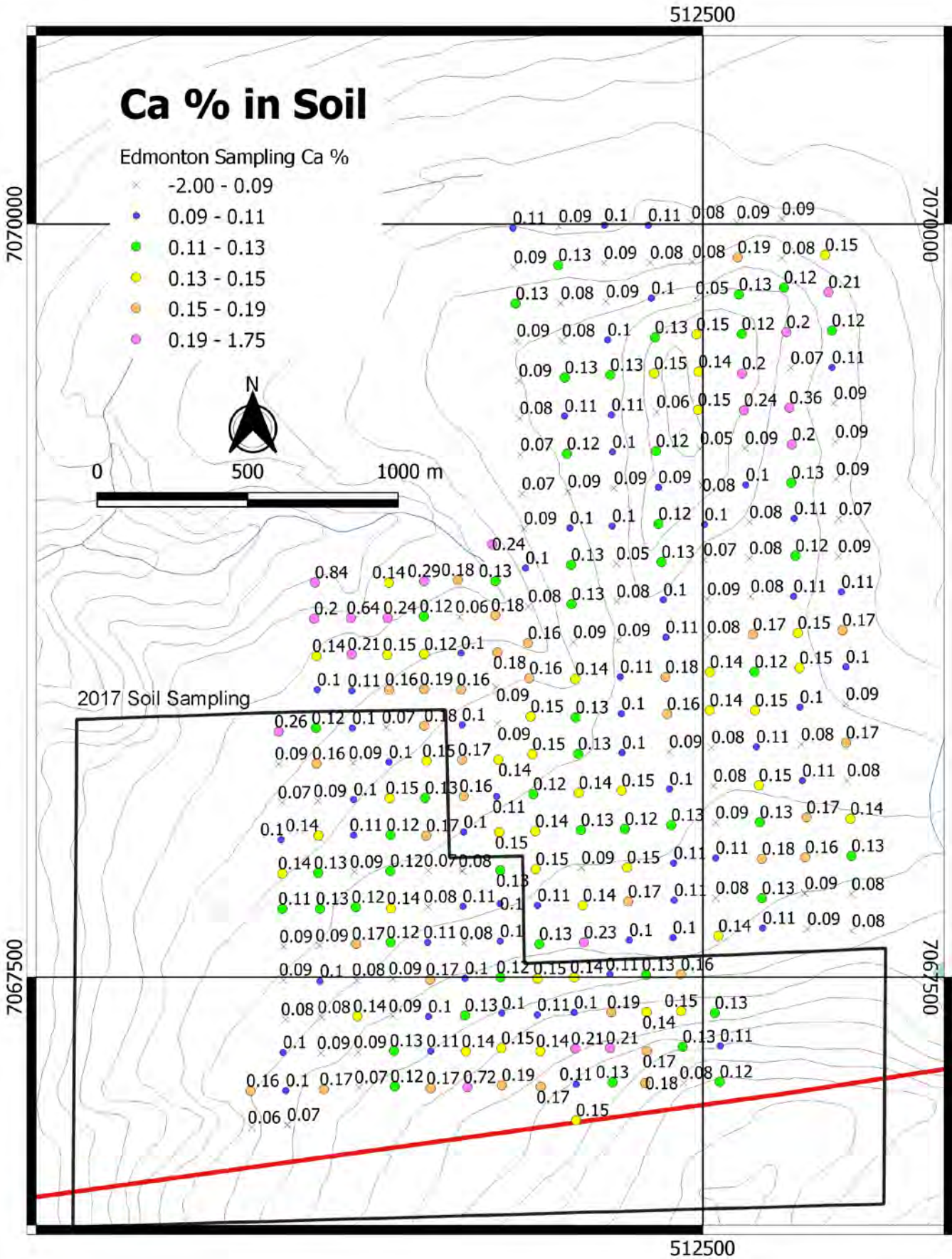
Geochemical Plots

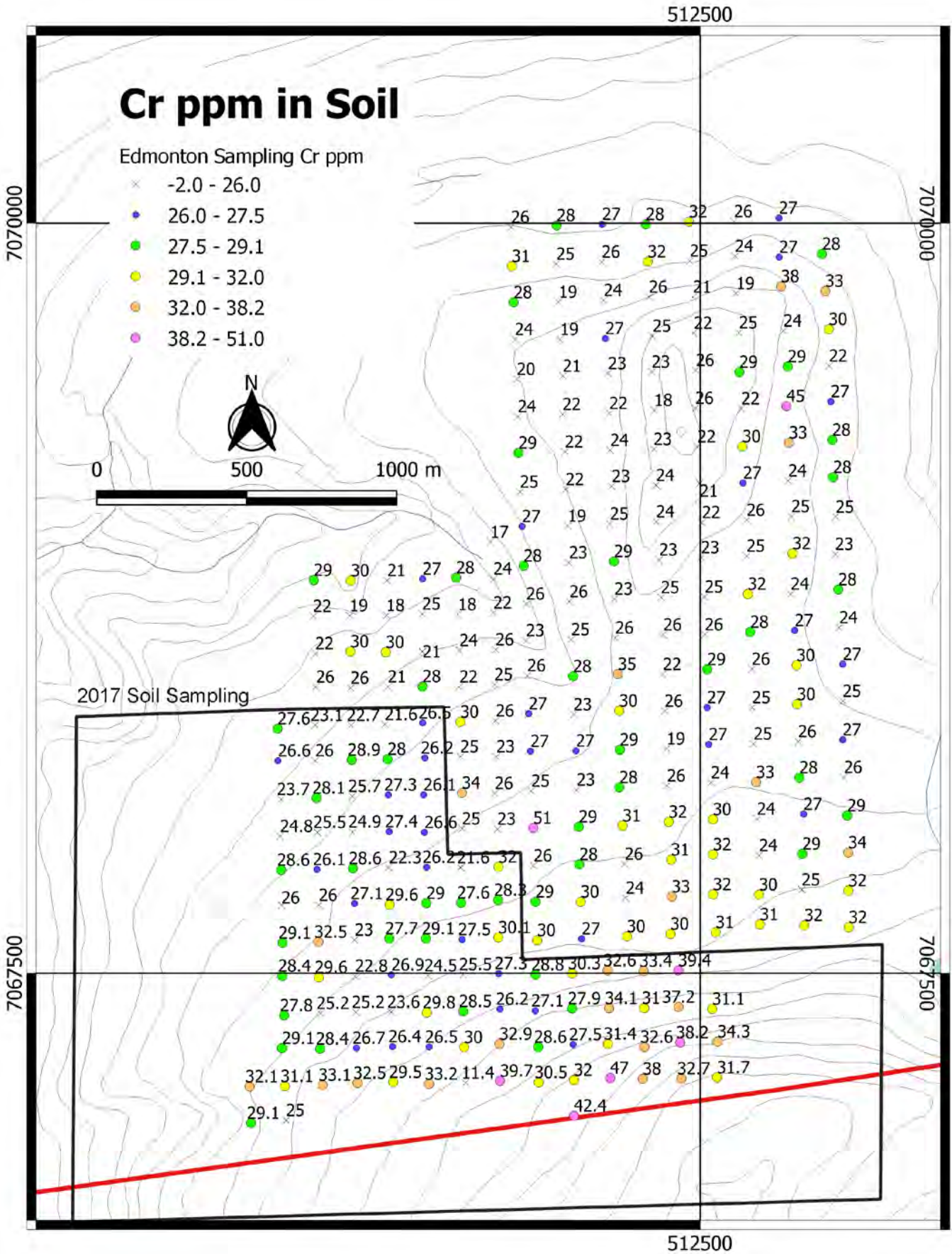


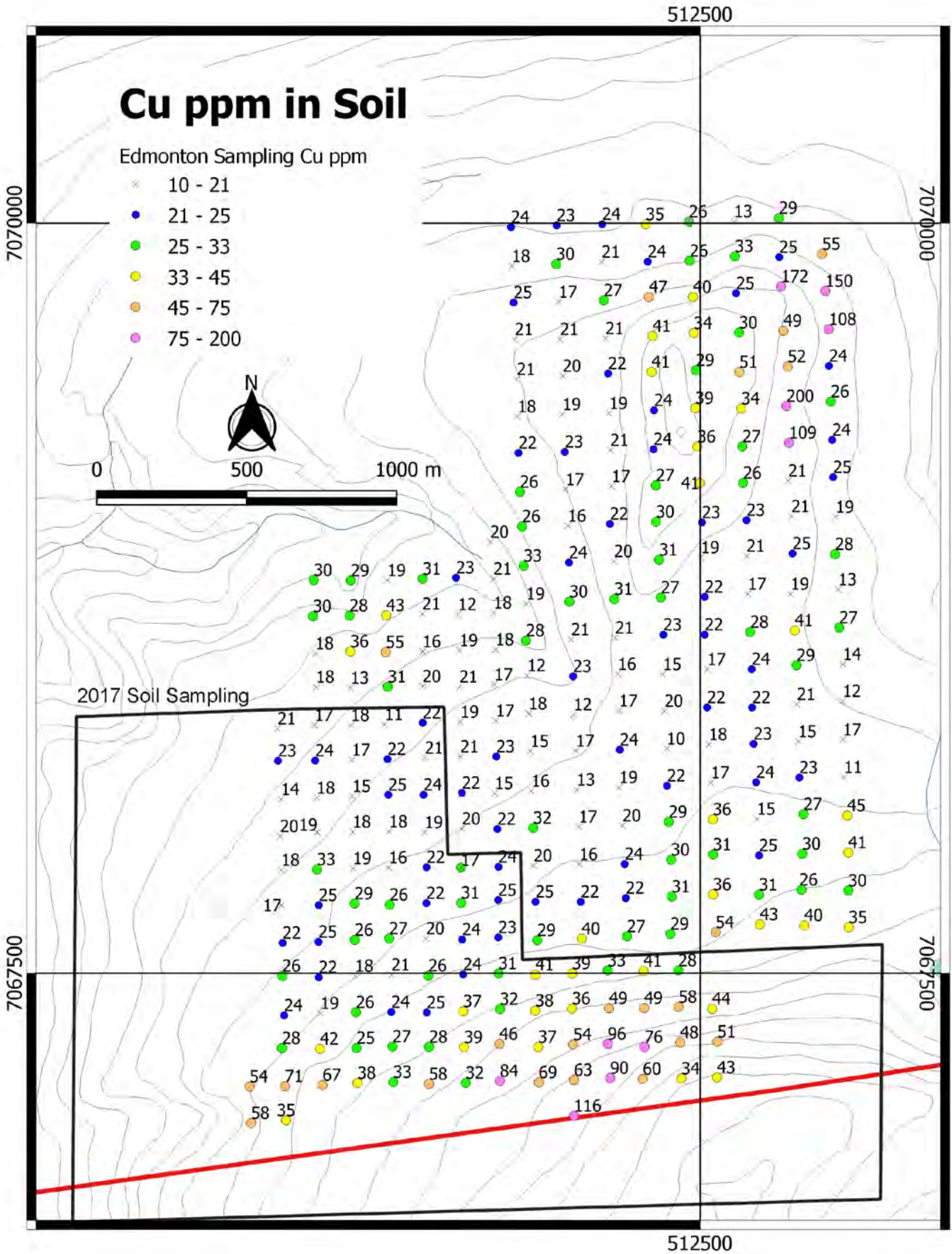


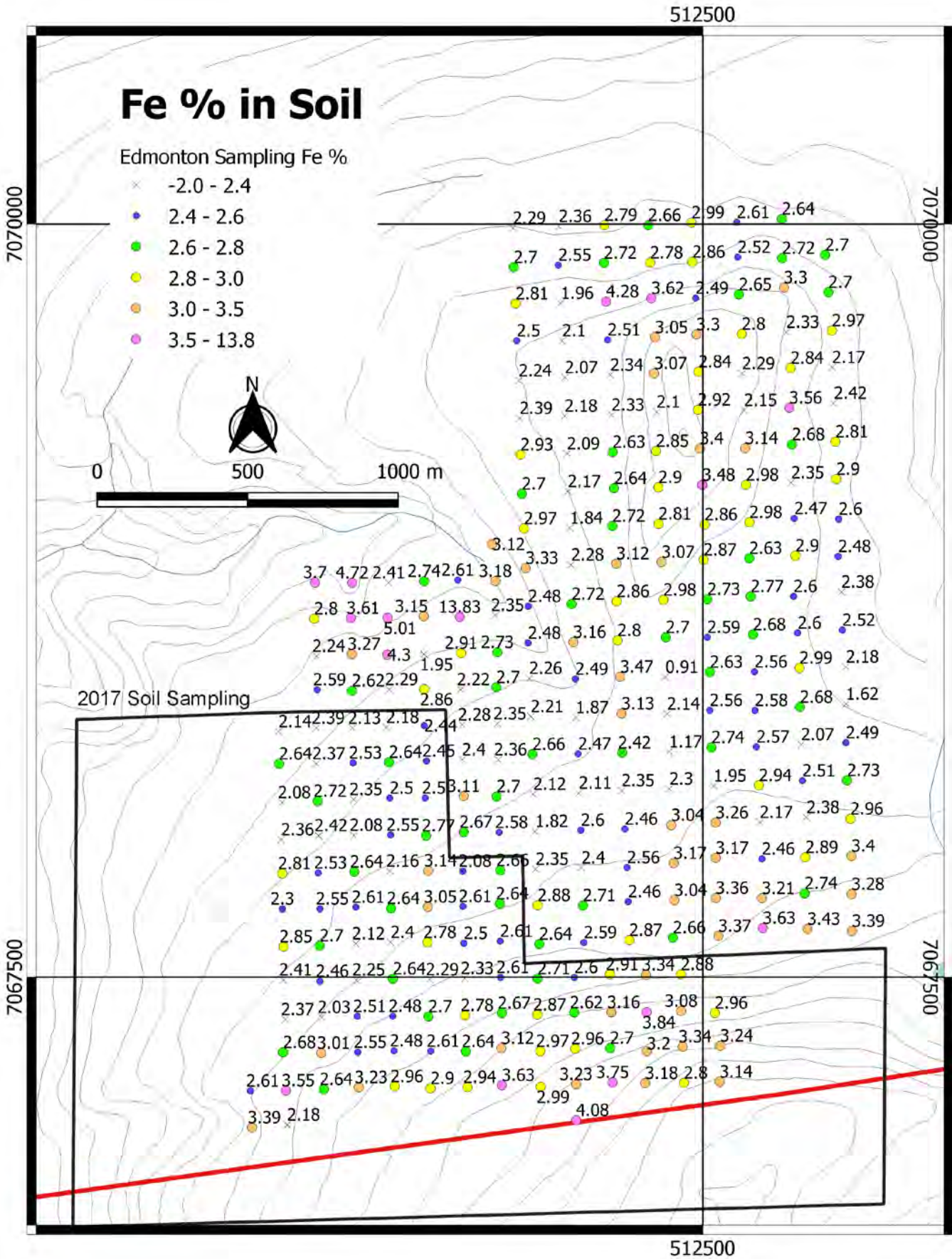


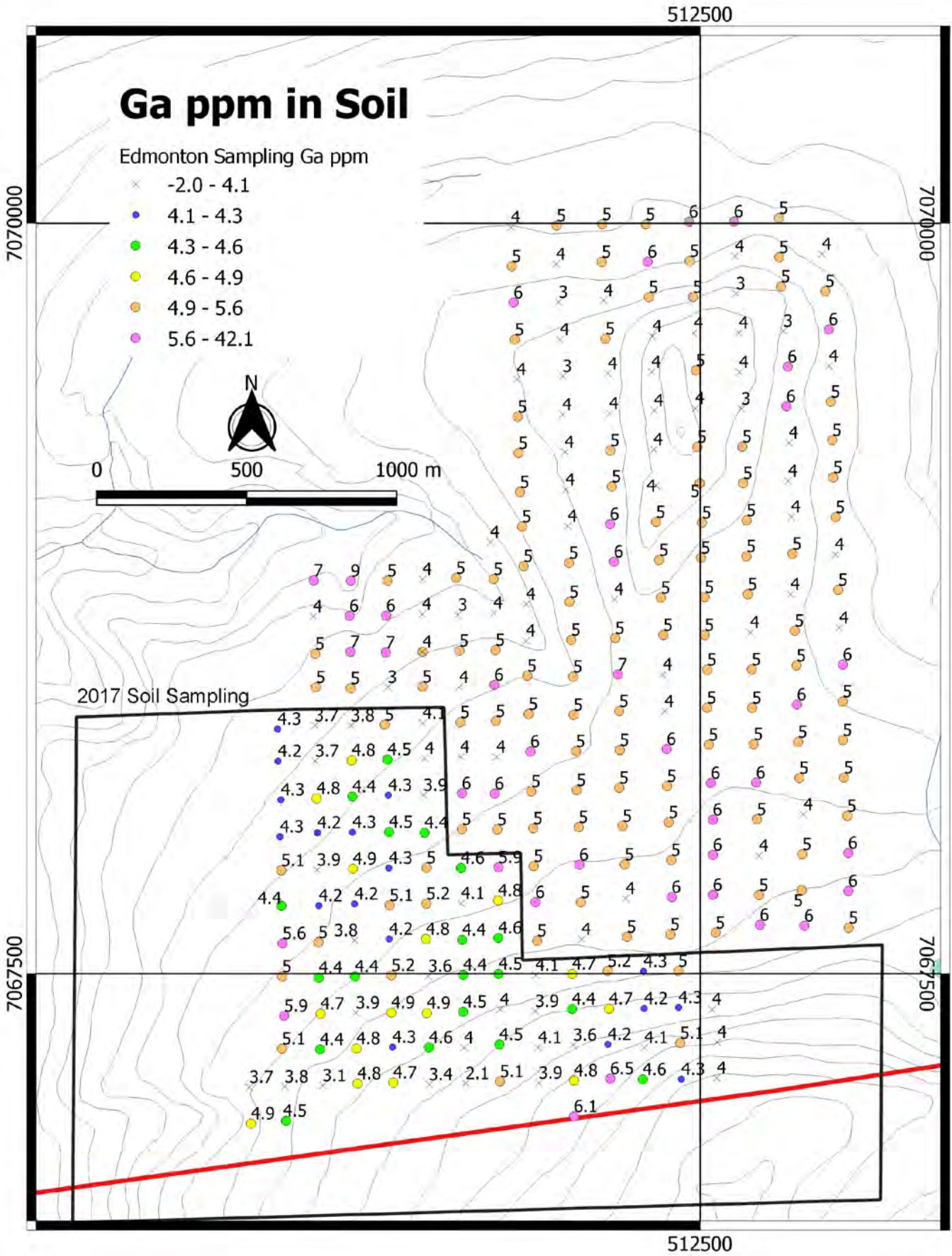


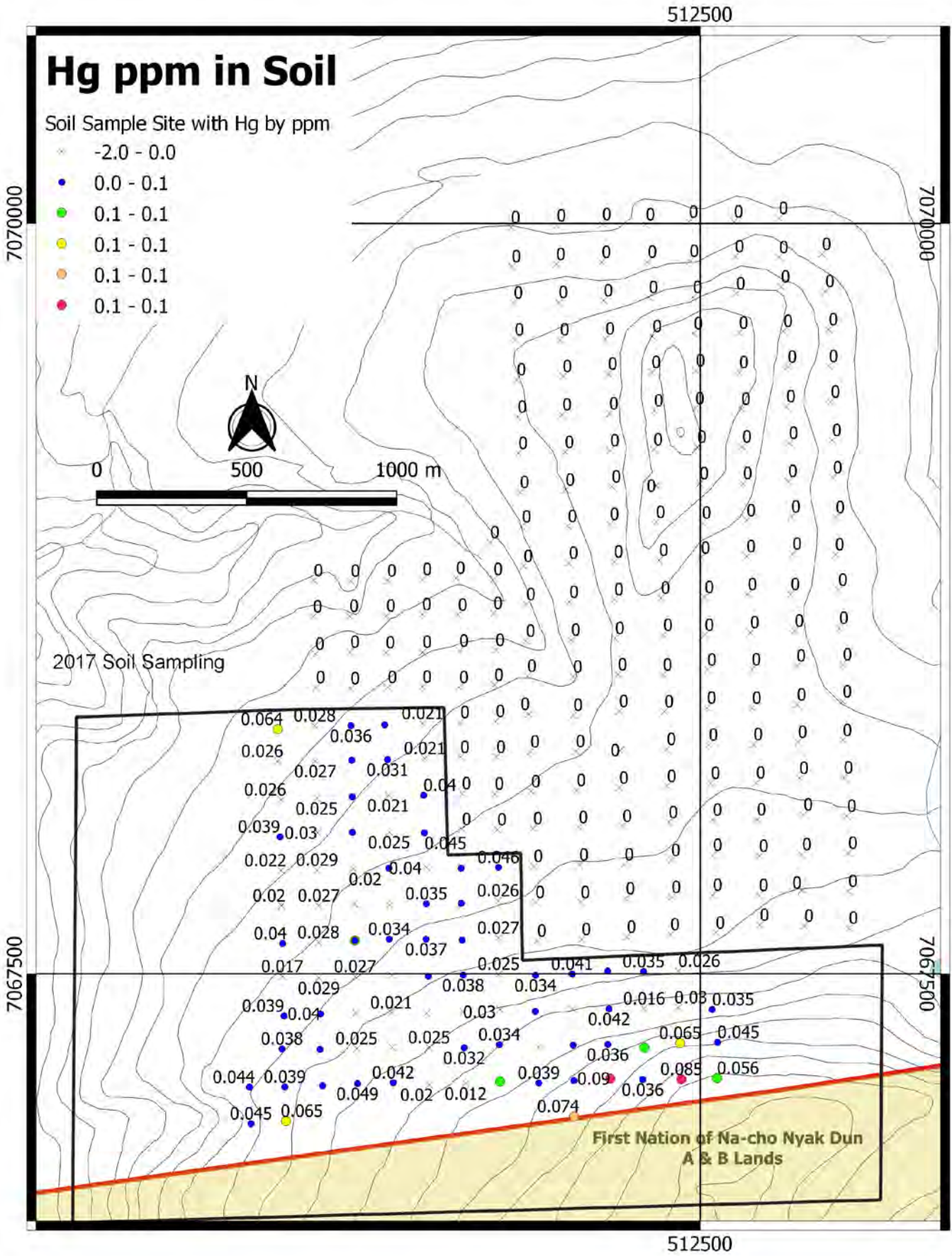


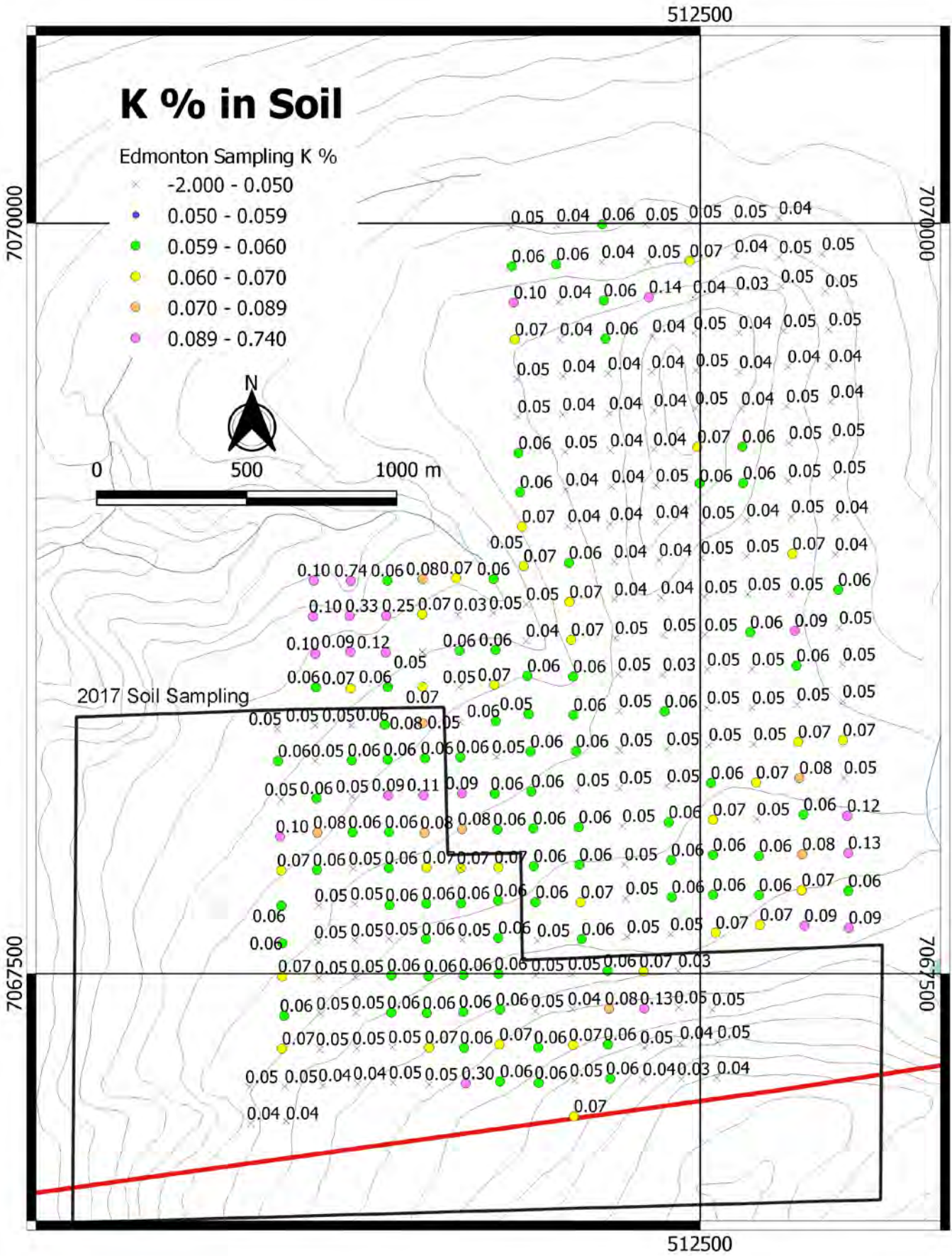


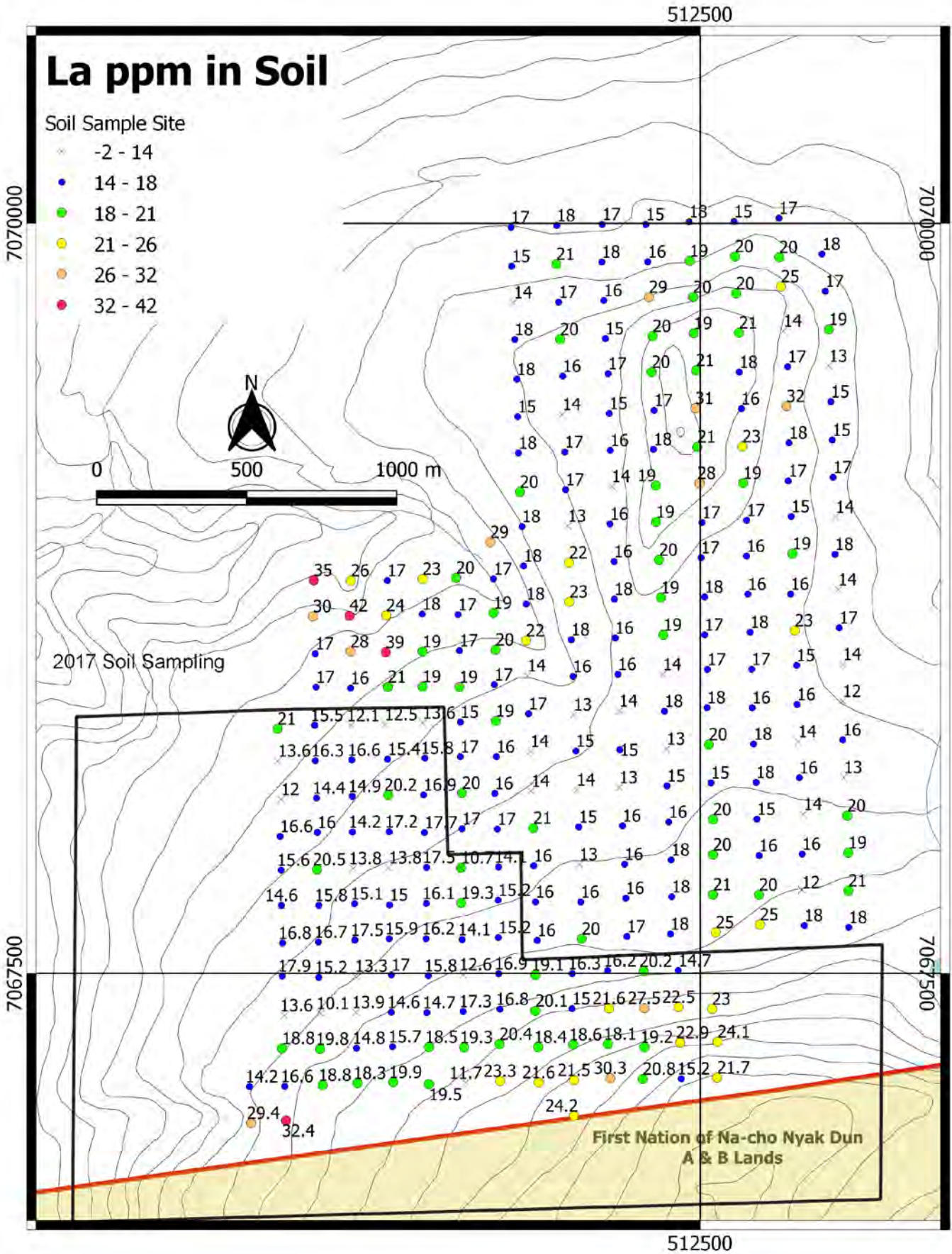


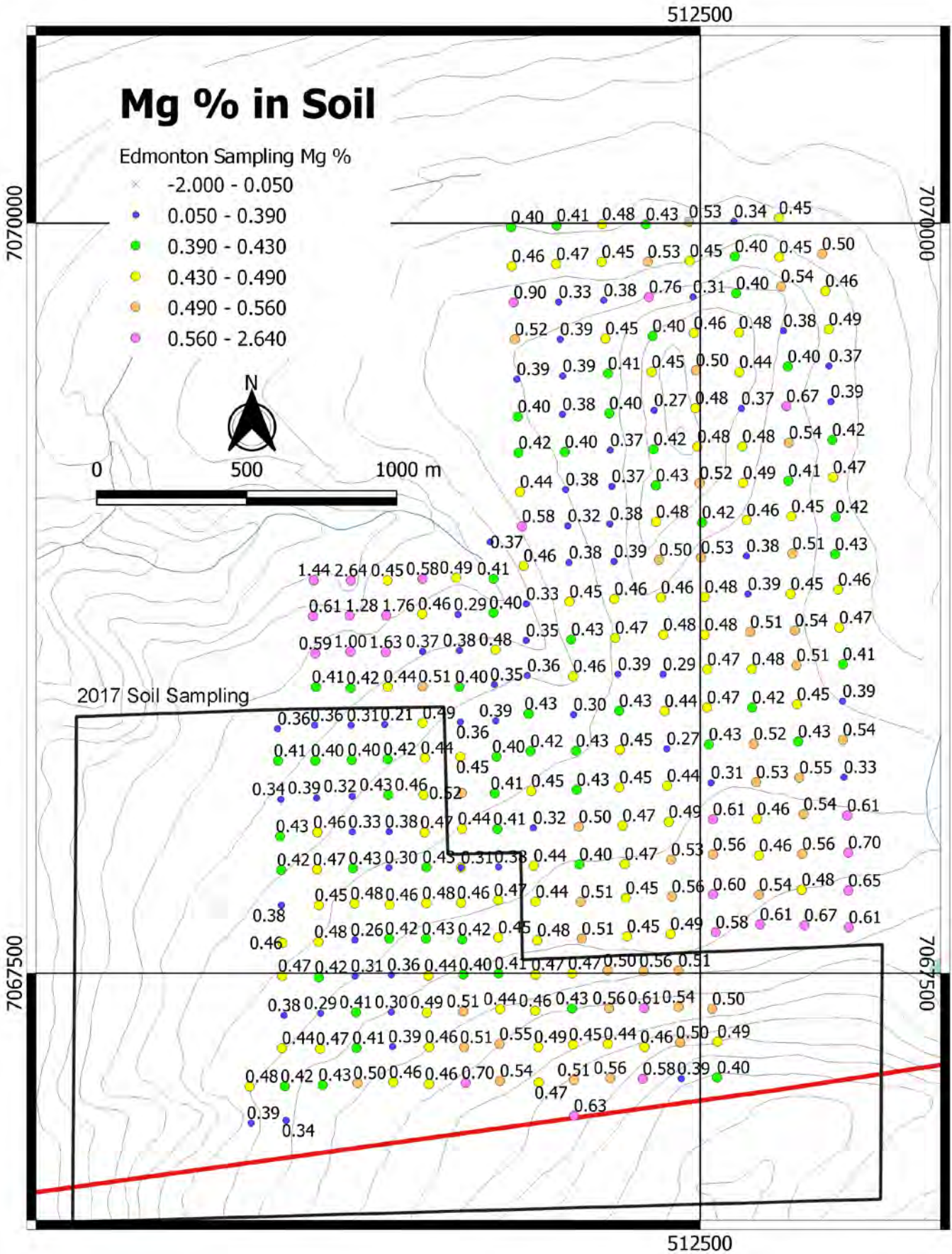


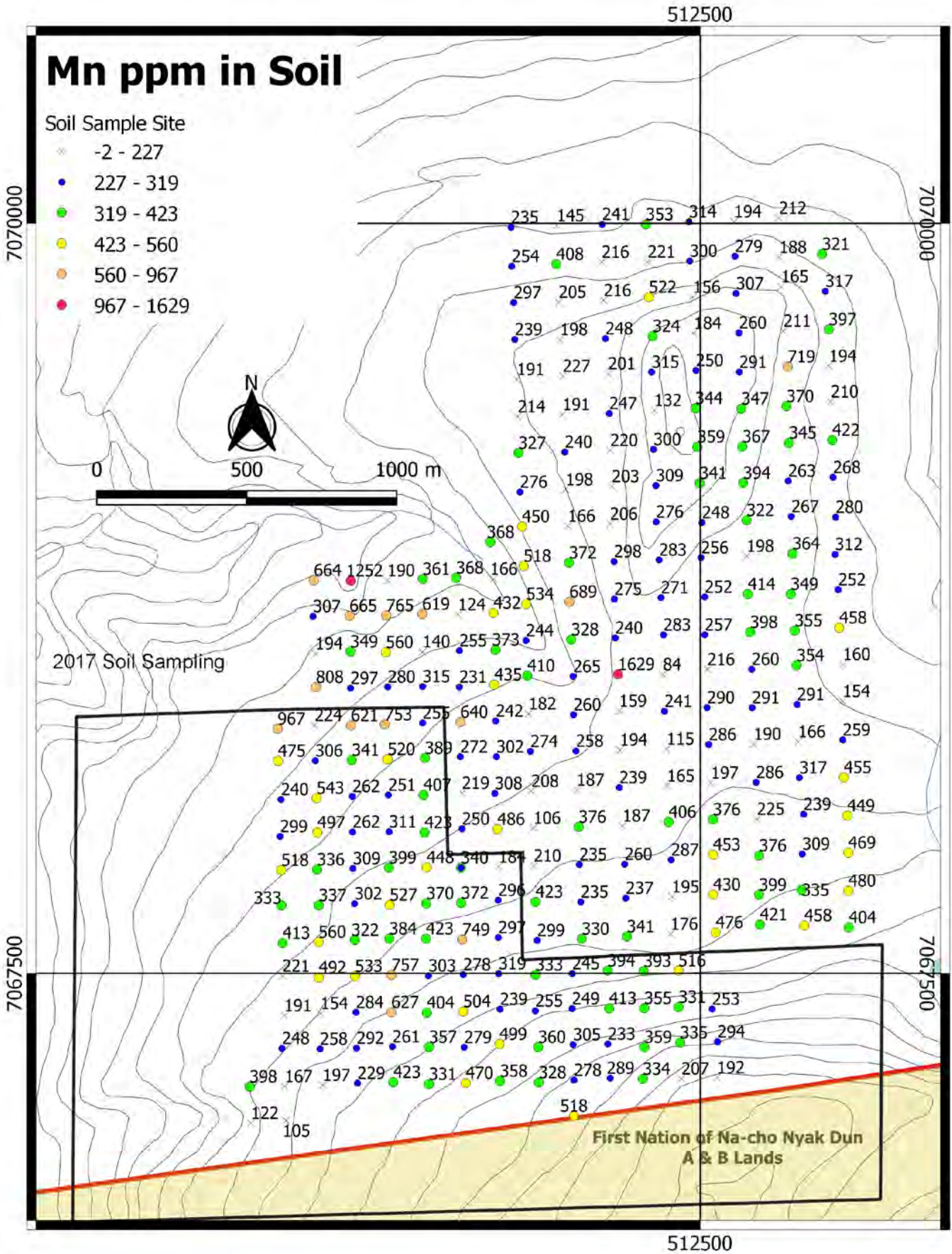


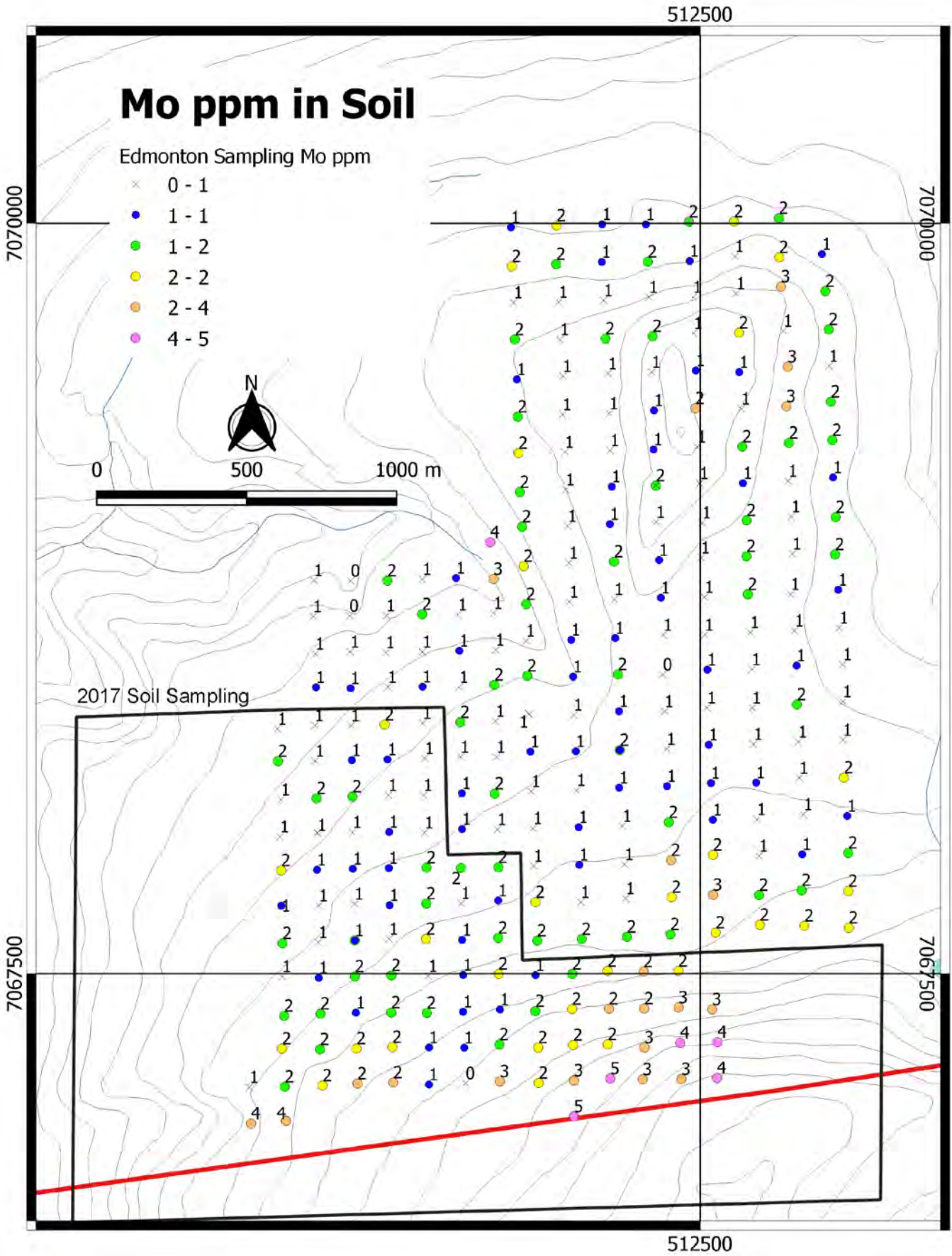


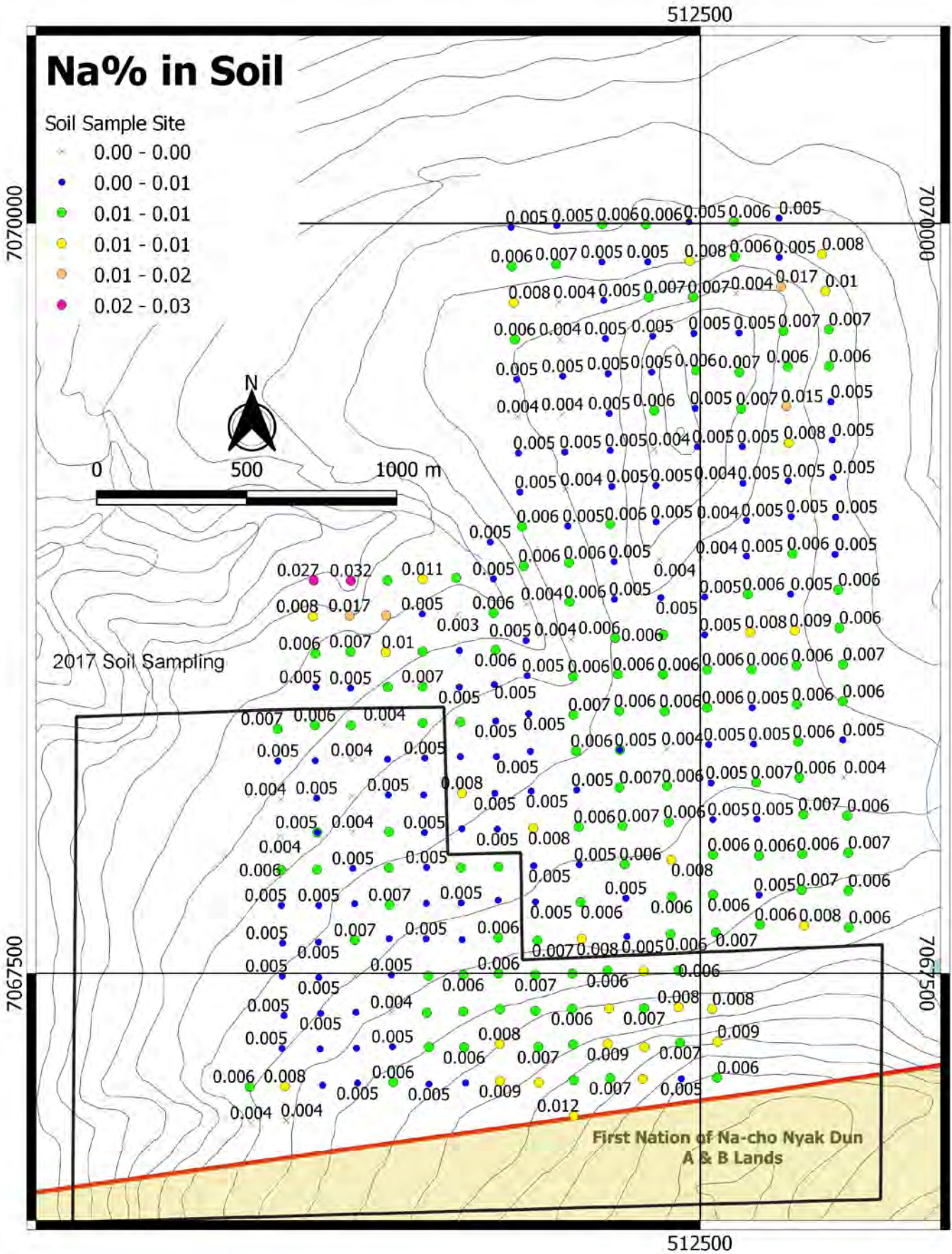












512500

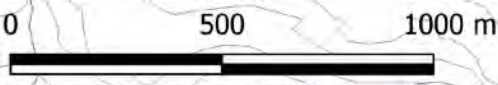
Ni ppm in Soil

Edmonton Sampling Ni ppm

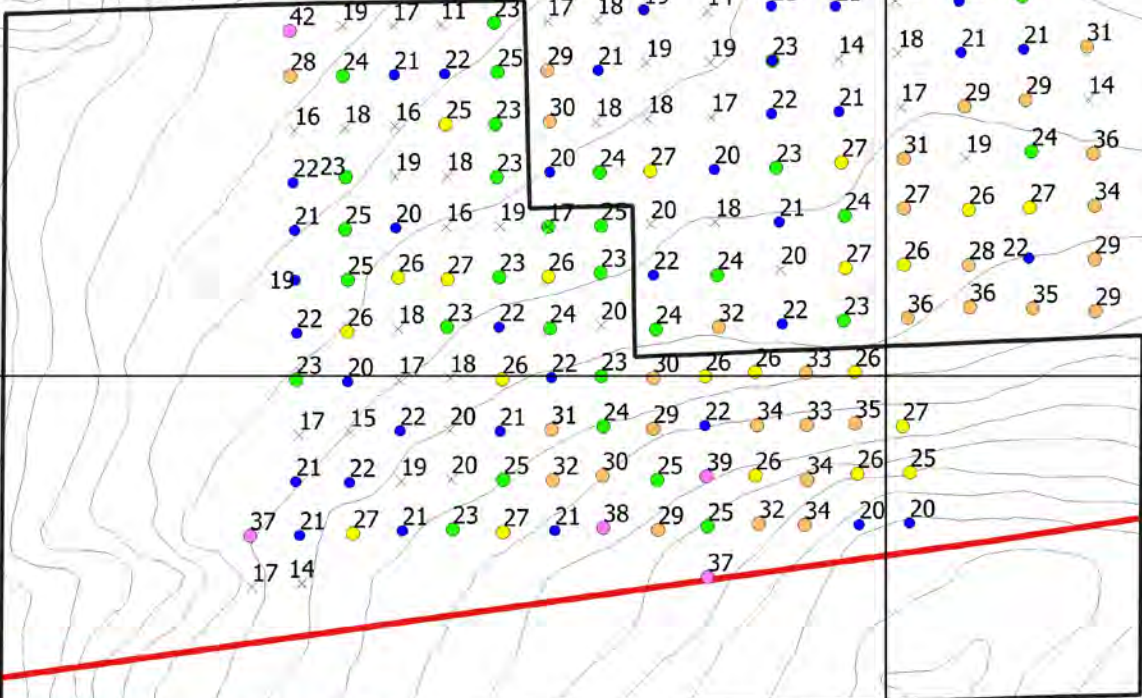
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- 20 - 23
- 23 - 25
- 25 - 27
- 27 - 37
- 37 - 53

7070000

7070000



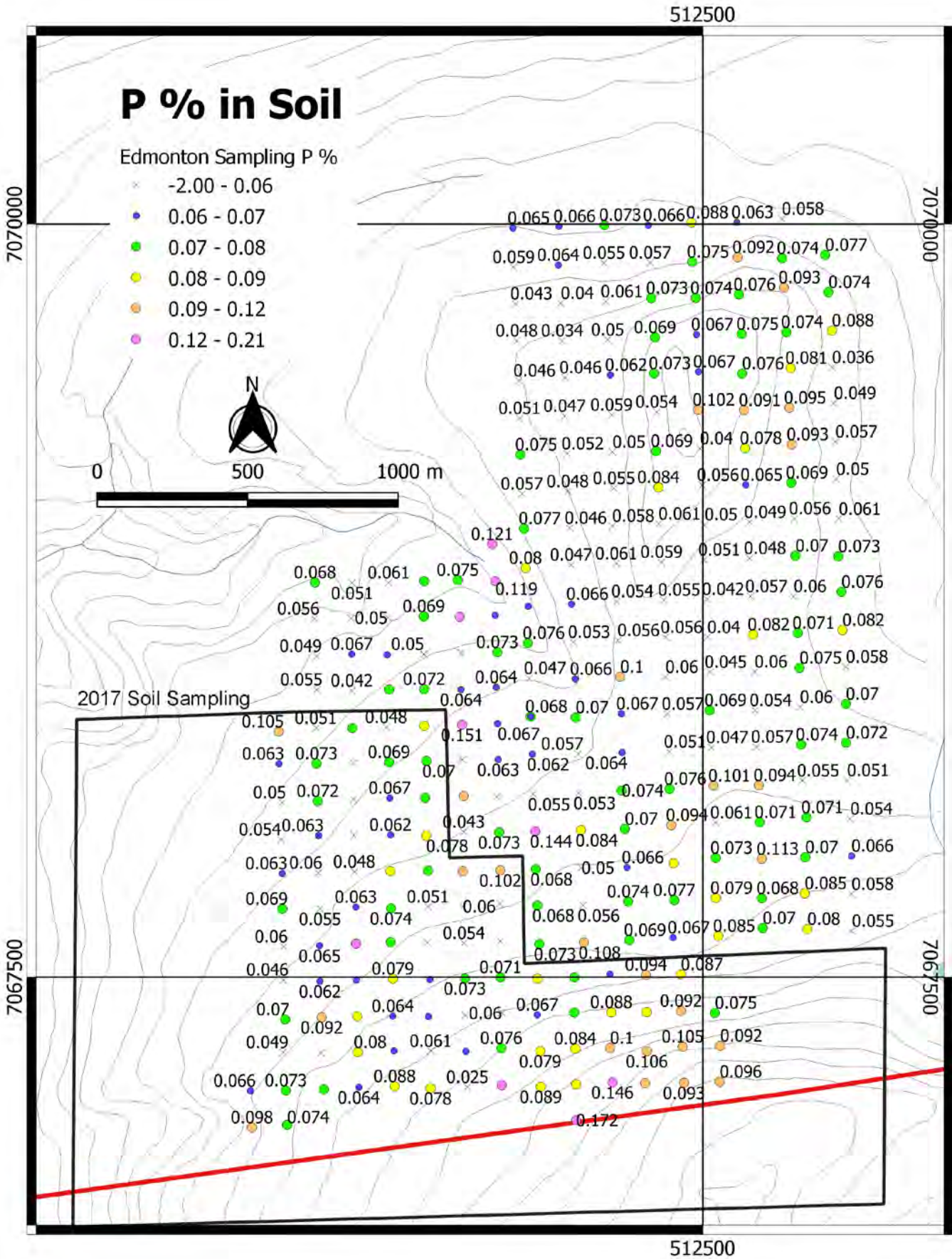
2017 Soil Sampling

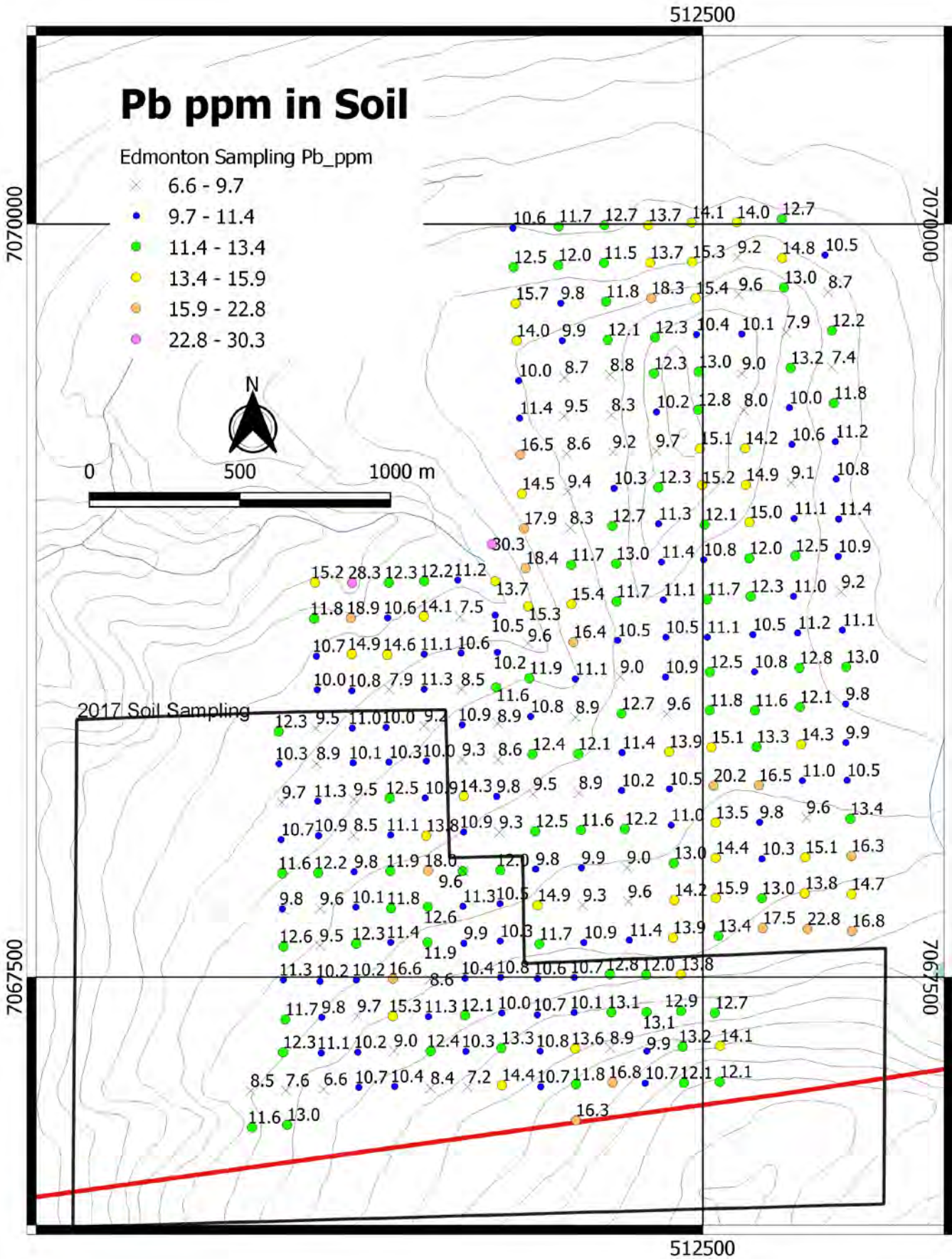


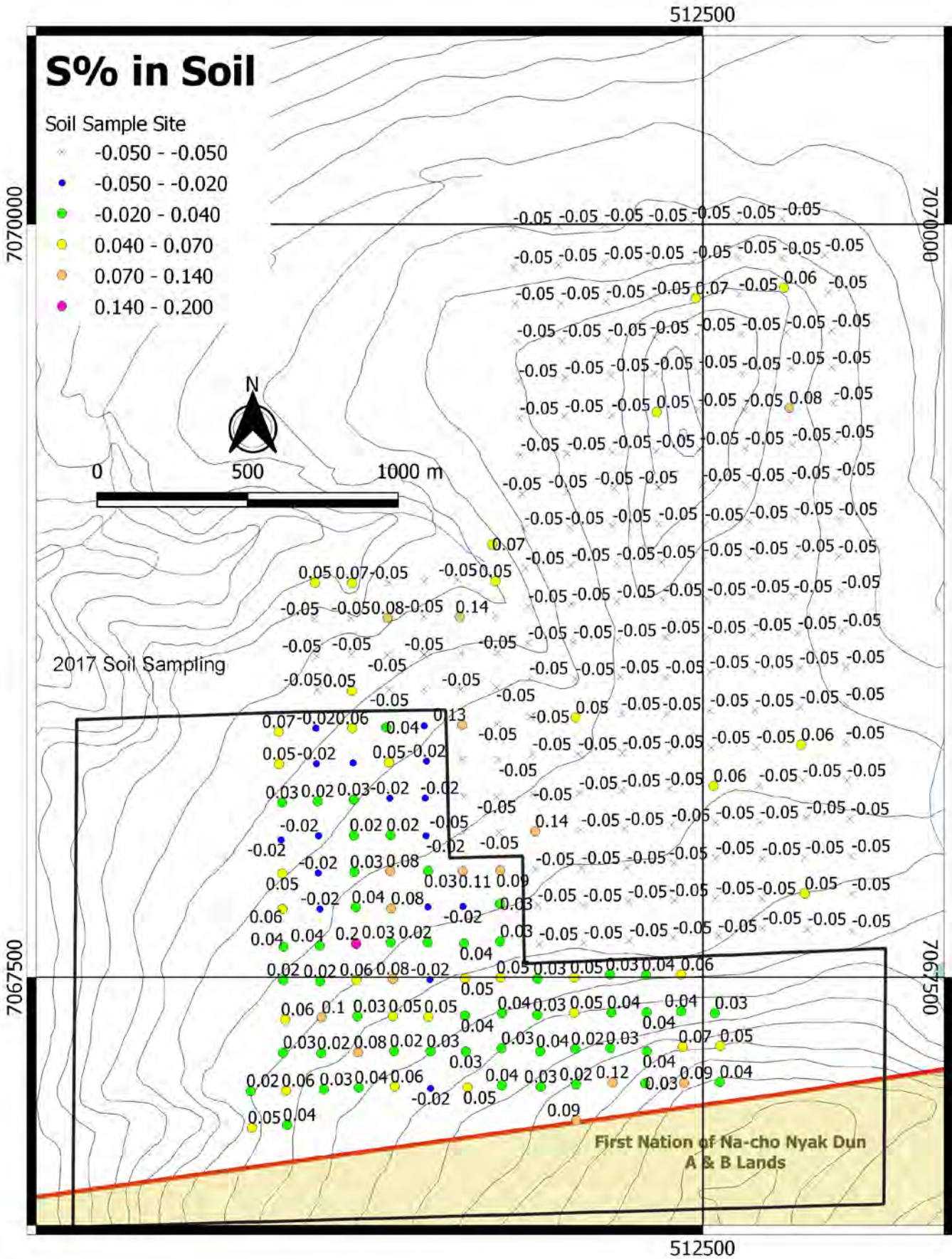
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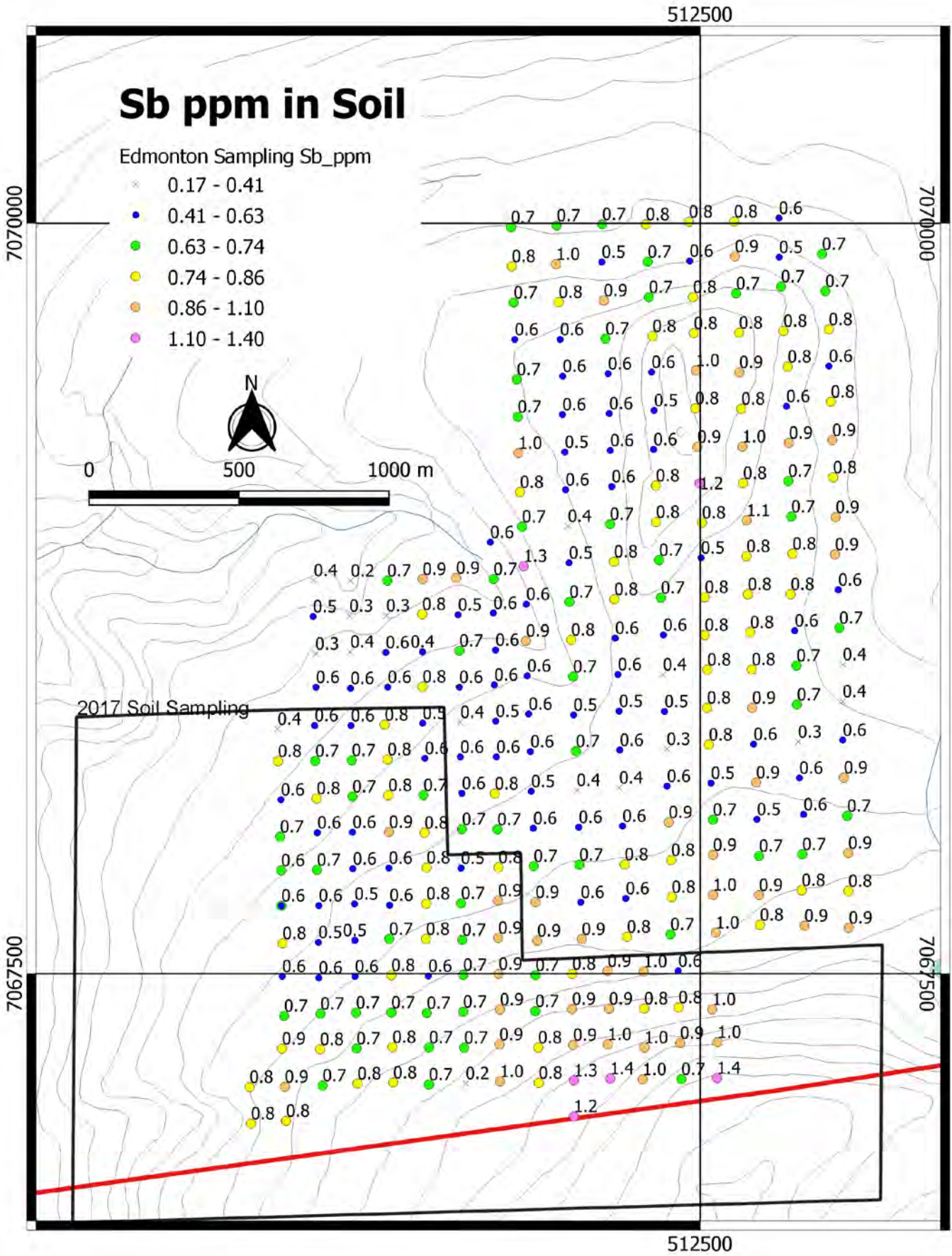
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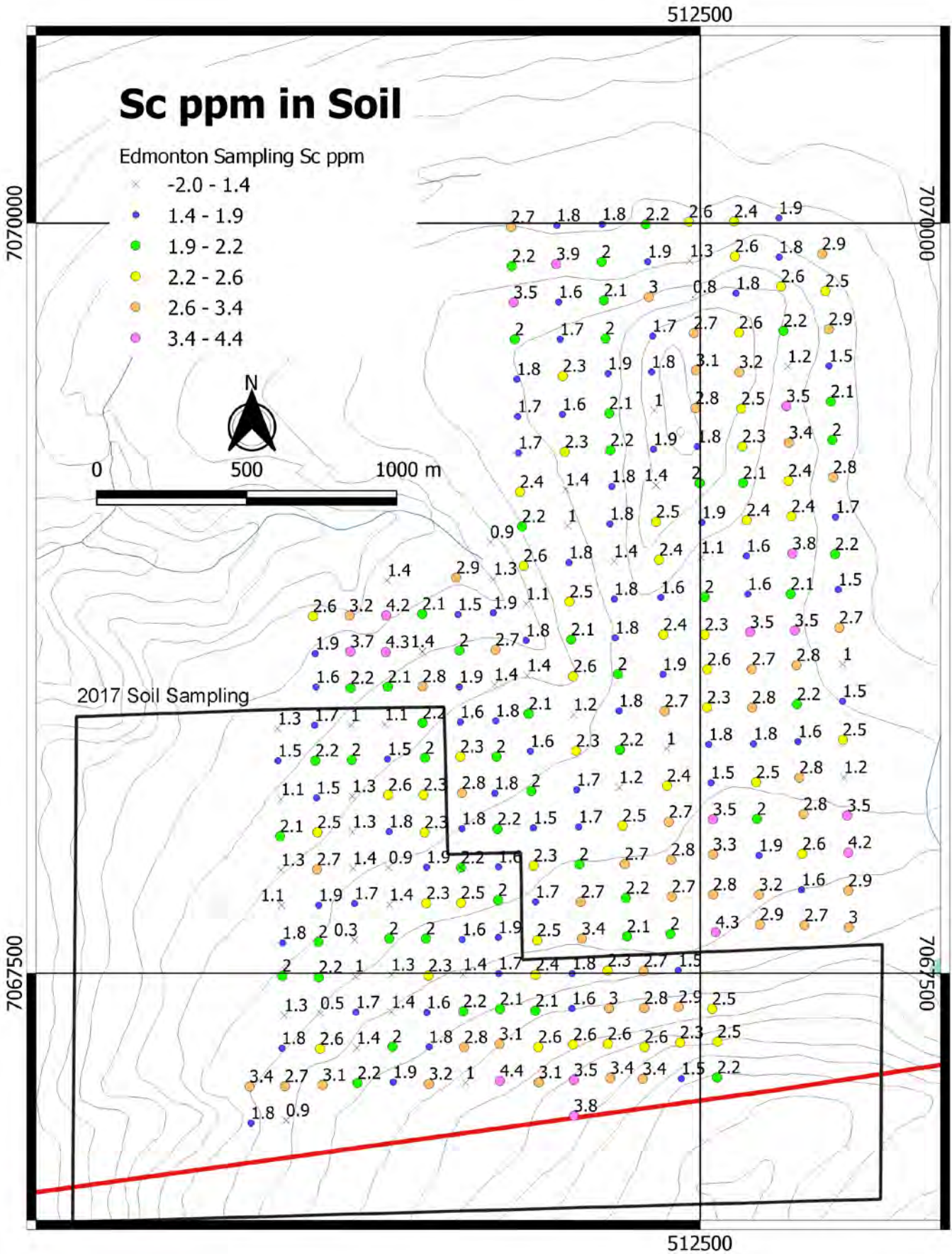
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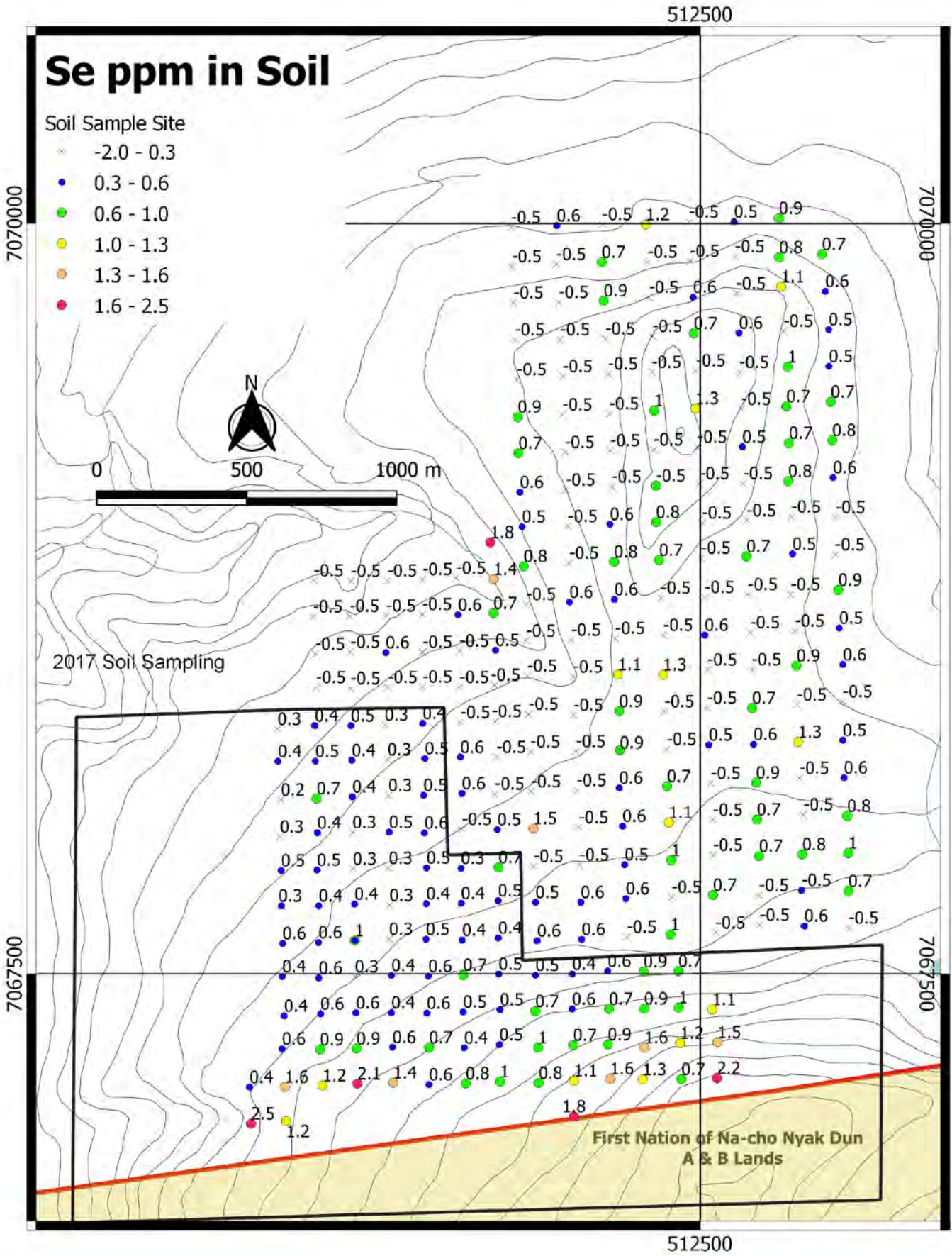


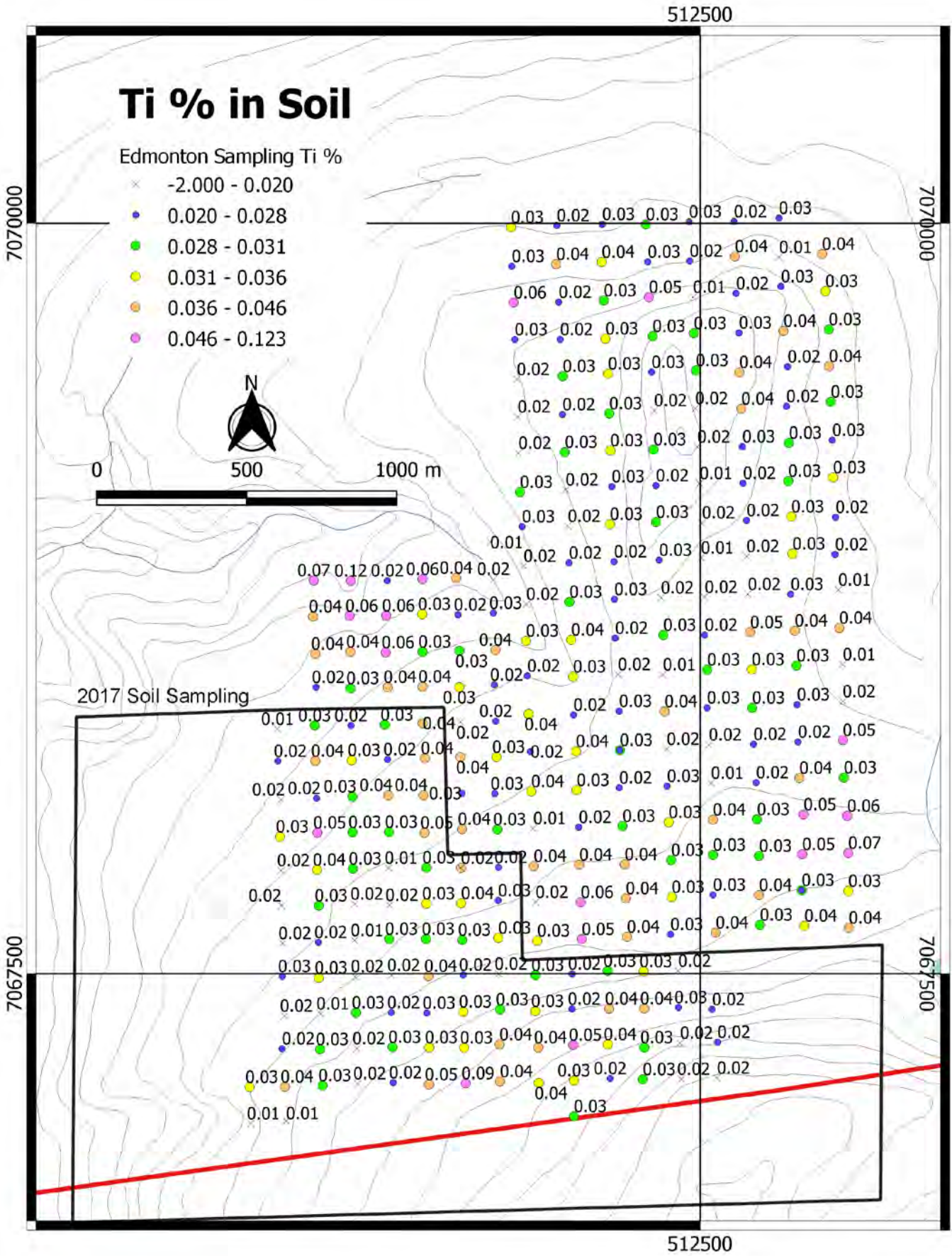


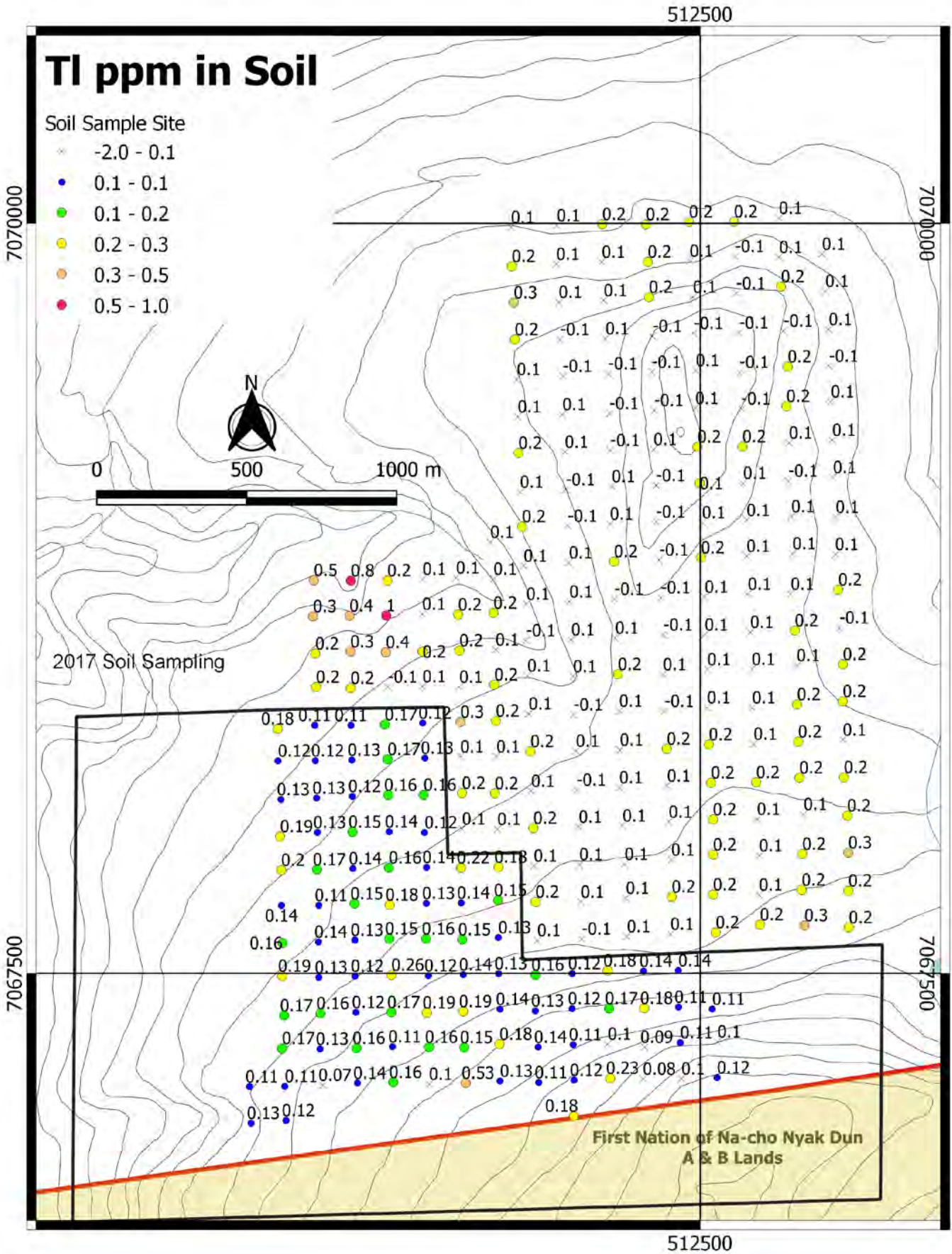












512500

Zn ppm in Soil

Edmonton Sampling Zn ppm

- × 41 - 71
- 71 - 76
- 76 - 87
- 87 - 99
- 99 - 124
- 124 - 146



0 500 1000 m

2017 Soil Sampling

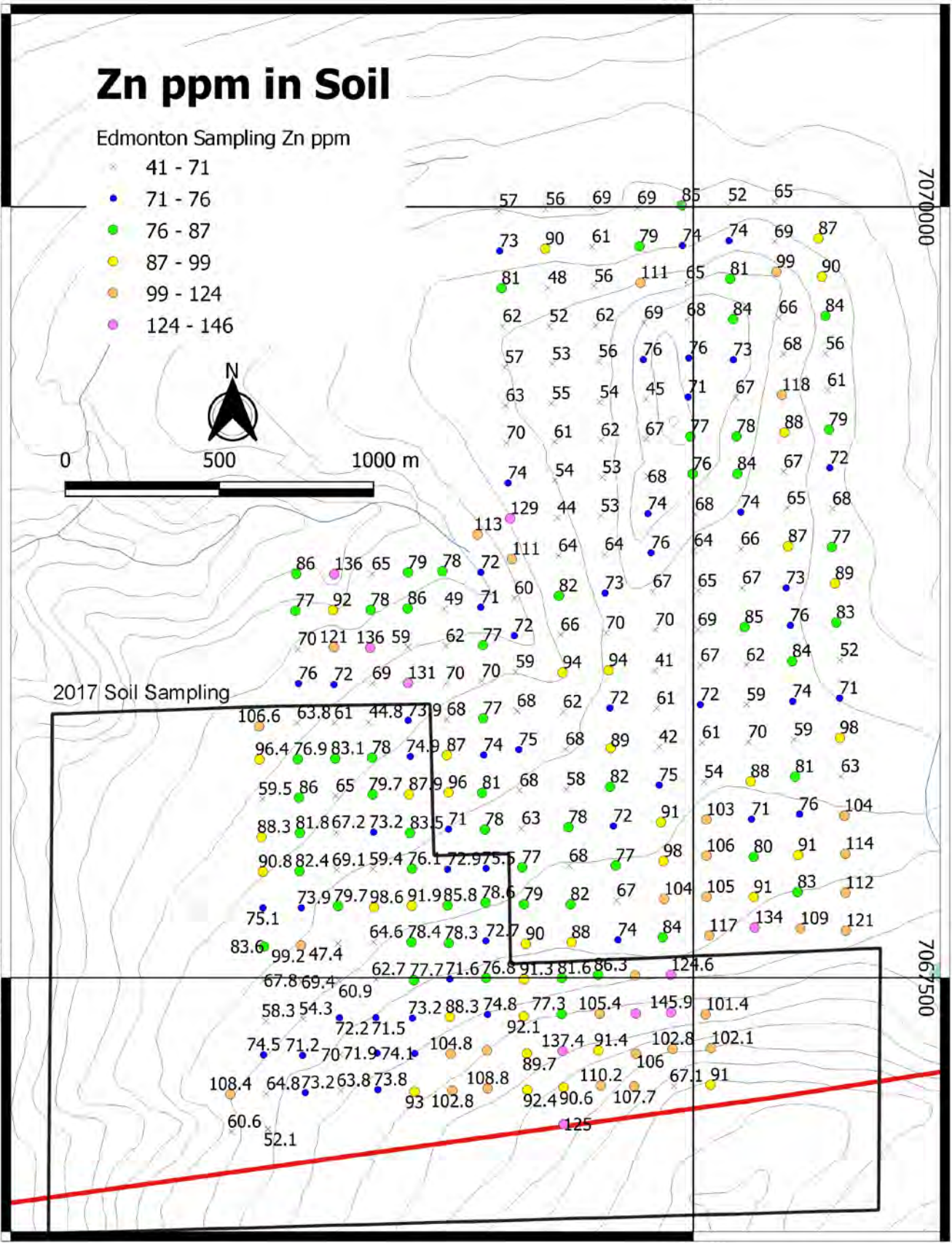
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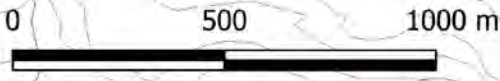


512500

Bi ppm in Soil

Edmonton Sampling Bi %

- × -2.000 - 0.200
- 0.200 - 0.230
- 0.230 - 0.280
- 0.280 - 0.320
- 0.320 - 0.400
- 0.400 - 1.490



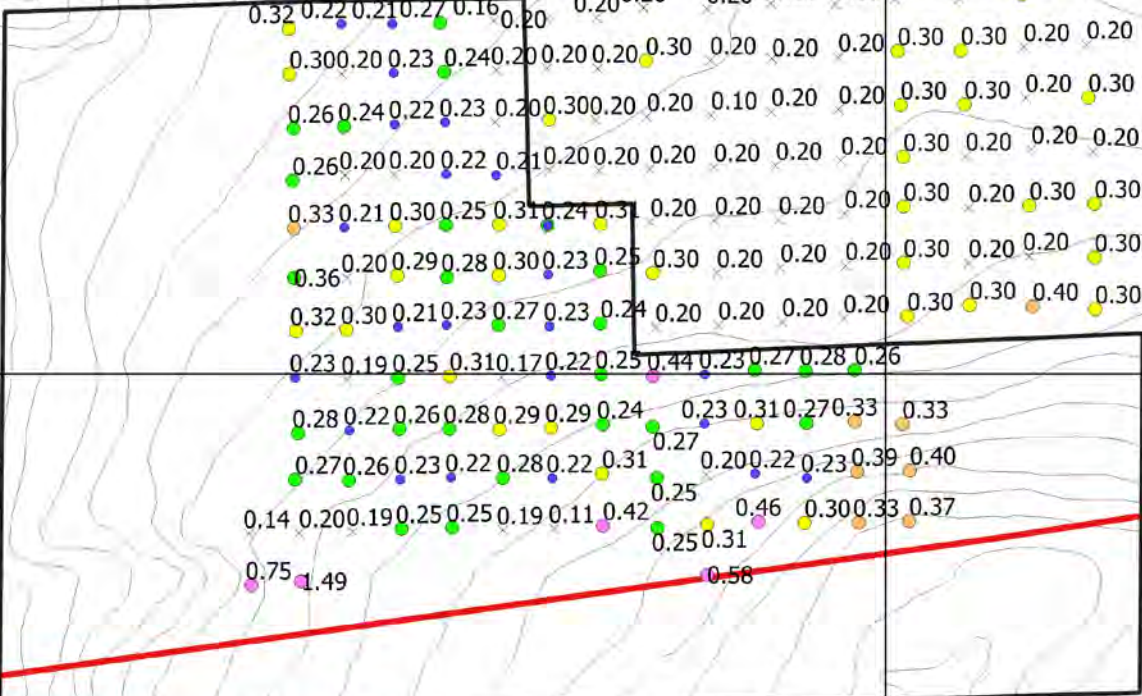
7070000

7070000

7067500

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2017 Soil Sampling



512500

Appendix E
Statement of Expenditures

	units	Cost/unit	total
Personnel			
	Days		
Senior Geologist	2	\$500	\$1,000
Assistant	2	\$170	\$340
Cook/medic	2	\$500	\$1,000
Equipment			
	Days		
Soil augers, GPS, computers	2	\$205	\$410
Radios, sat phones	2	\$15	\$30
Vehicle	2	\$158	\$316
Lodging	Nights		
Motel	2	\$230	\$460
Consumables			
Food			\$227
Gasoline			\$51
Field supplies			\$75
Helicopter			
	hours		
Long Ranger LR	1.4		\$2,174
Assays			
	samples		
Neutron Activation Analysis	98	\$21.70	\$2,127
Report	1	\$1,300	\$1,300
Total 2017			\$9,510
Fire Assay	95	\$19.27	\$1,830
Total 2018			\$1,830