

2013 TECHNICAL ASSESSMENT REPORT ON GEOCHEMICAL SOIL SAMPLING OF THE THOR-MARMOT PROPERTY

**Omineca Mining Division
British Columbia**

**NTS 94D/11E
56 49' N/126 38' W**

**BC Geological Survey
Assessment Report
34347**

Event #

Tenure #'s:

**518727, 518729, 518730, 518731, 518733, 518734, 518736, 518737, 518739, 1017768, 601033,
1016998, 1016114, 1017032, 1017062, 953671, 1017167, 1017401, 1016589, 1017798,
1016904, 1017745, 517626, 1016144, 1016776, 1017491, 1017091, 1015517, 1015500,
1017656, 953677, 1017157, 1017628, and 1016936**

**Prepared for:
Electrum Resource Corp.**

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November 2013

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1. SUMMARY

In August 2013 Electrum Resource Corp contracted UTM Exploration Services Ltd. of Smithers, BC to conduct a 10-day geochemical soil sampling program of the Thor-Marmot property, northwest of Germansen Landing, BC (Figure 1). The program involved soil sampling along predetermined 1km spaced lines that mimicked the most recent IP geophysical survey done on the property.

The property is located approximately 20km south of the Kemess Mine and approximately 170km northwest of Germansen Landing, B.C. The property consists of thirty-four (34) mineral claims, totaling 8963 hectares. Exploration included 141 "B-Horizon" soil samples from a total of 216 sites.

On its east side, the property is underlain by basaltic volcanic rocks of the Upper Triassic Takla Group. These rocks have been intruded by several granitic plugs and stocks, probably of the Early Jurassic Black Lake intrusive suite. The Kemess stock, which hosts the nearby Kemess copper-gold porphyry deposit, is also a member of this intrusive suite. Clastic non-marine sedimentary rocks of the Cretaceous to Tertiary Sustut Group underlie the west side of the property. Contact between the Takla and Sustut Groups is not well exposed, but may be along the 1 W-striking Moose Valley fault.

Takla Group volcanic rocks on the Thor-Marmot property are cut by widely spaced, narrow, north-south trending, high-grade copper and gold-bearing shear zones and quartz veins. Historically, this type of mineralization was the focus of most previous exploration programs on the property.

2. INTRODUCTION AND TERMS OF REFERENCE

The Thor-Marmot mineral property is located within and to the east of Moose Valley, in the Omineca Mining Division of north-central British Columbia (Latitude 56 49' N, Longitude 126 38' W; NTS map sheets 94D/11E) (Figure 1). It includes much of the eastern half of Moose valley and the western slopes of the McConnell Range, and extends northerly for approximately 7 km from the headwaters of Menard Creek to the latitude of Theme Lake.

This report quotes from historical assessment reports of the area, as noted in the References section.

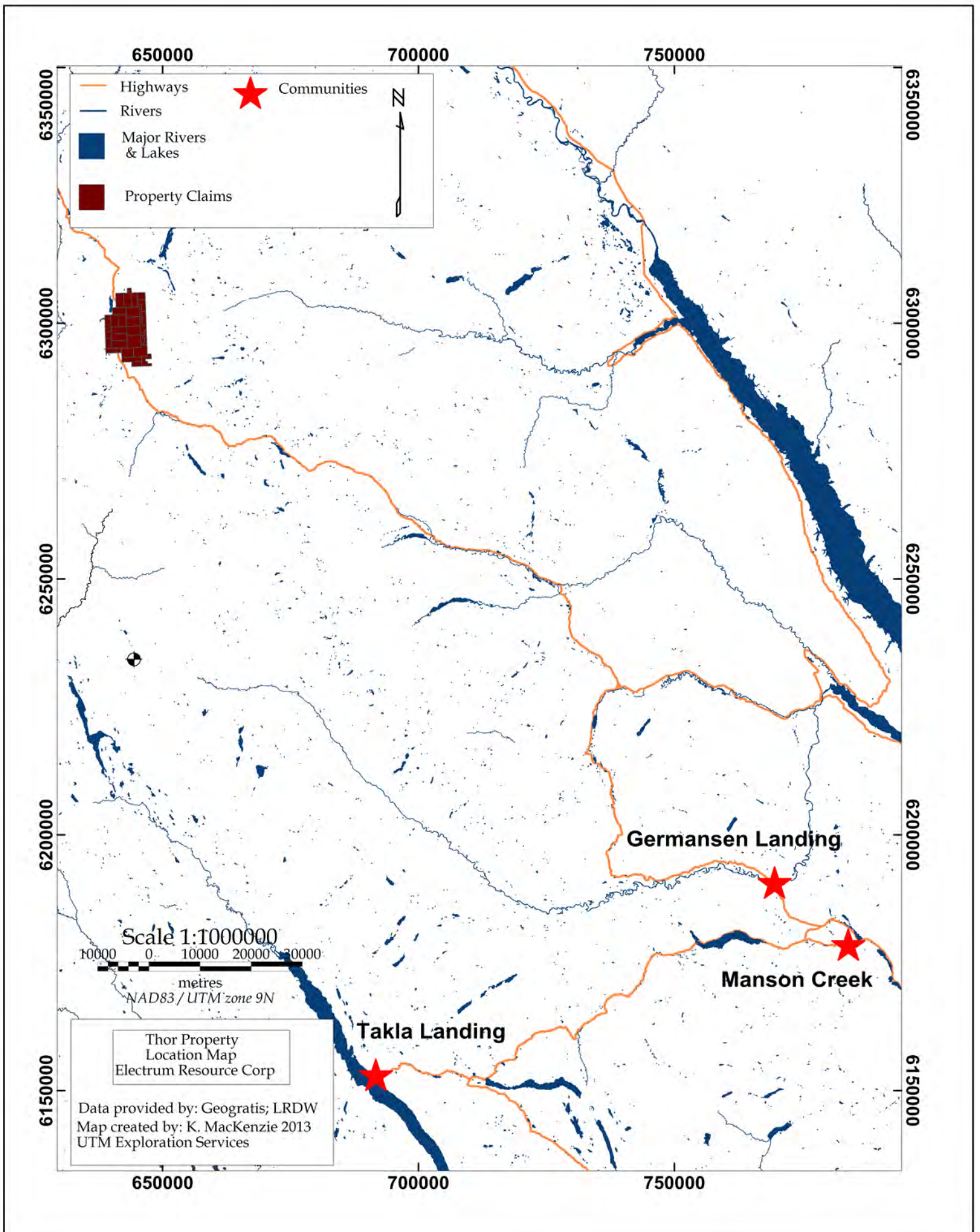


Figure 1. Thor-Marmot Location Map.

3. PROPERTY DESCRIPTION AND LOCATION

3.1 ACCESSIBILITY AND INFRASTRUCTURE

Access to the property is via highway 97, north from Prince George to the Mackenzie turn-off, then approximately 30km north to Mackenzie (west side of Williston Lake) and then by the main Kemess Mine gravel mining road for approximately 270 kilometres. An alternate route from near Fort St James and thru Germansen Landing up to the claim group also exists; however, road conditions here are not as good. The Kemess Mine road is open on a year-round basis to service the Kemess mine.

3.2 MINERAL TENURE INFORMATION

The Thor-Marmot property consists of thirty-four (34) mineral claims totaling 8962 ha (Table 1). The property is located on NTS map sheet 94D/11E in the Omineca Mining Division, approximately 20km south of the Kemess Mine in north-central B.C. The geographic coordinates of the approximate property center are 56 49' N latitude 126 38' W longitude (Figures 2 and 3).

Table 1. Mineral Tenure Details.

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Status	Area (ha)
517626		107591 (100%)	094D	2005/jul/13	2014/jan/18	GOOD	17.7022
518727	THOR 1	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	424.508
518729	THOR 2	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	424.515
518730	THOR 3	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	371.635
518731	THOR 4	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	354.092
518733	THOR 5	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	425.098
518734	THOR 6	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	425.241
518736	THOR 7	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	425.384
518737	THOR 8	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	425.542
518739	THOR 9	107591 (100%)	094D	2005/aug/04	2014/oct/01	GOOD	354.735
601033	THOR 10	107591 (100%)	094D	2009/mar/13	2014/sep/13	GOOD	17.681
953671	THOR MARMOT 1H	107591 (100%)	094D	2012/mar/01	2014/sep/11	GOOD	70.7752
953677	THOR MARMOT 1K	107591 (100%)	094D	2012/mar/01	2014/sep/08	GOOD	35.4299
1015500	THOR MARMOT 2C	107591 (100%)	094D	2012/dec/25	2013/dec/25	GOOD	106.3766
1015517	THOR MARMOT 2D	107591 (100%)	094D	2012/dec/27	2013/dec/27	GOOD	177.2951
1016114		107591 (100%)	094D	2013/jan/18	2014/jan/18	GOOD	495.5279
1016144	THOR MARMOT 11	107591 (100%)	094D	2013/jan/19	2014/jan/19	GOOD	478.0432
1016589	THOR MARMOT 2G	107591 (100%)	094D	2013/feb/03	2014/feb/03	GOOD	212.4447
1016776		107591 (100%)	094D	2013/feb/08	2014/feb/08	GOOD	620.2667
1016804	THOR MARMOT 2J	107591 (100%)	094D	2013/feb/10	2014/feb/10	GOOD	159.4492
1016936	THOR MARMOT 15	107591 (100%)	094D	2013/feb/15	2014/feb/15	GOOD	301.5541
1016998	THOR MARMOT 1B	107591 (100%)	094D	2013/feb/18	2014/feb/18	GOOD	318.377
1017032	THOR MARMOT 1C	107591 (100%)	094D	2013/feb/19	2014/feb/19	GOOD	212.2133
1017062	THOR MARMOT 1D	107591 (100%)	094D	2013/feb/20	2014/feb/20	GOOD	247.6795
1017091	THOR MARMOT 17	107591 (100%)	094D	2013/feb/21	2014/feb/21	GOOD	549.6373
1017157	THOR MARMOT 1E	107591 (100%)	094D	2013/feb/23	2014/feb/23	GOOD	106.3252
1017167	THOR MARMOT 1G	107591 (100%)	094D	2013/feb/24	2014/feb/24	GOOD	212.4371
1017401	THOR MARMAT 1J	107591 (100%)	094D	2013/mar/02	2014/mar/02	GOOD	247.9131
1017491	THOR MARMOT 16	107591 (100%)	094D	2013/mar/04	2014/mar/04	GOOD	177.4151
1017628	THOR MARMOT 1F	107591 (100%)	094D	2013/mar/08	2014/mar/08	GOOD	106.3252
1017656	THOR MARMOT 1M	107591 (100%)	094D	2013/mar/09	2014/mar/09	GOOD	35.4319
1017745	THOR MARMOT 2H	107591 (100%)	094D	2013/mar/13	2014/mar/13	GOOD	212.6827
1017768	THOR MARMOT 18	107591 (100%)	094D	2013/mar/14	2014/mar/14	GOOD	53.0388
1017798	THOR MARMOT 2I	107591 (100%)	094D	2013/mar/15	2014/mar/15	GOOD	159.3954
Total Hectares							8962.1674

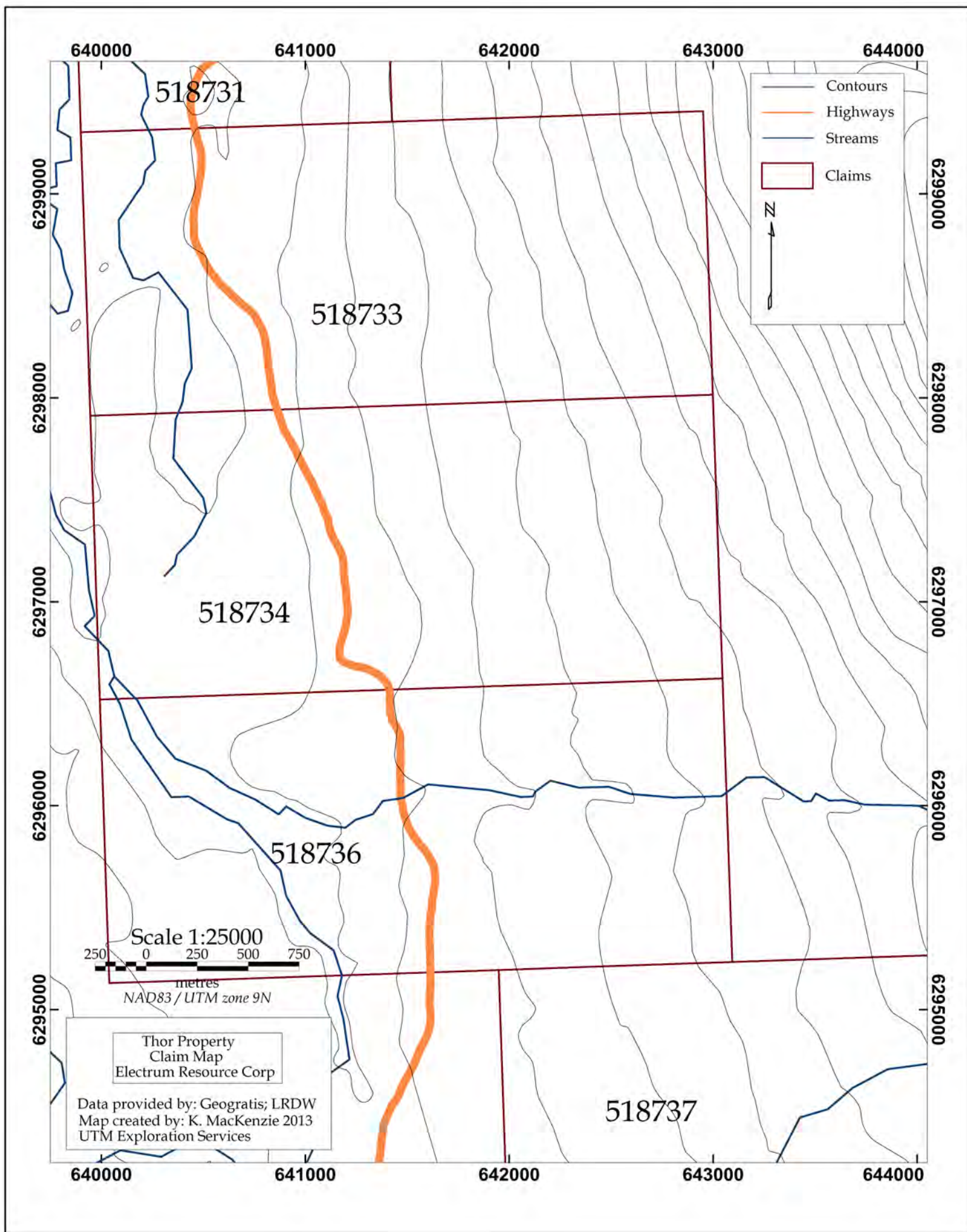


Figure 2. Thor-Marmot Claim Map (25k): Claims with work done in 2013.

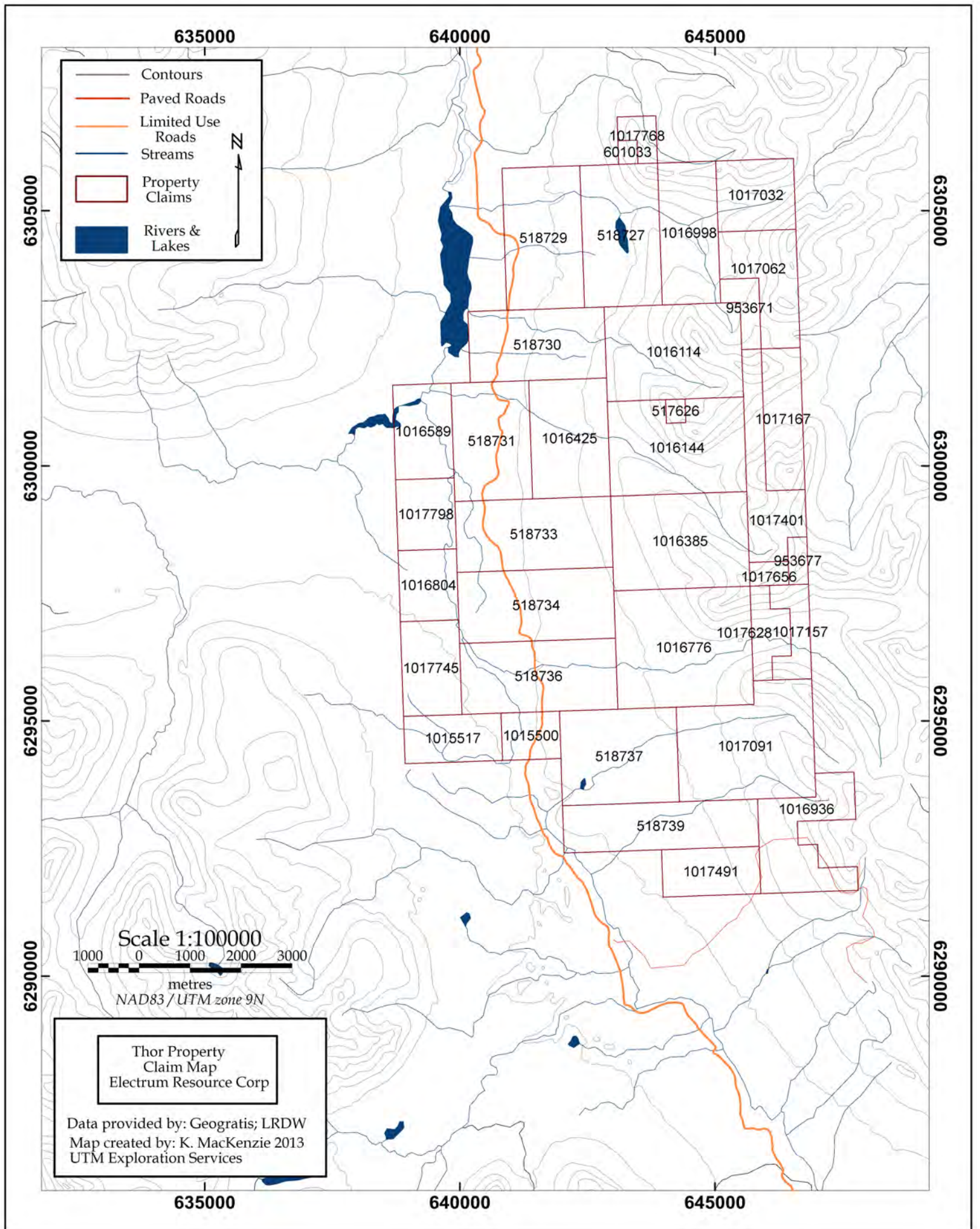


Figure 3. All Thor-Marmot Claims (100k).

3.3 PHYSIOGRAPHY AND CLIMATE

The grassy, lightly timbered valley is at an elevation of about 1200 metres (4000 feet) and the highest point on the claims is 2,042 metres (6,700 feet), well above timberline. Mountains in the McConnell Range are fairly rugged. The climate is typical of the northern interior with moderate (+/- 100 centimetres) precipitation, much of it falling as snow that lasts from early November to late May. Winter temperatures can range down to - 40° C.

4. HISTORY

The following account of the exploration history of the Thor-Marmot property area was modified from a report by McDougall (1997).

Early exploration in the region centered on small placer gold operations, particularly in the Germansen Landing-Mattson Creek area, although even smaller operations were in production in the Toodoggone River area and elsewhere. Several lead-zinc showings were discovered in the first part of the 1900s. In the late 1960s and 1970s the region was explored for porphyry type copper and molybdenum mineralization. It was during this period that the Chappelle Creek (Baker mine) precious metal vein, Lawyers (Cheni mine) amethystine epithermal gold, and the Kemess-north porphyry copper-gold deposits were initially discovered. Considerable interest was generated by the Falconbridge discovery of several volcanic/sediment-hosted copper deposits (Sustut deposit) and intrusive associated gold-copper deposits within rocks along the Sustut Rivet valley. In the 1980s, most interest was centered on the Toodoggone area gold discoveries (Baker and Cheni mines).

In 1996 Royal Oak Mines announced that it was proceeding with development of the Kemess-south deposit, located approximately 16 kilometers north of the Thor-Marmot property. This project created renewed interest in the area, since the existence of an electric power line and good road access would make development of additional deposits relatively inexpensive.

The Omineca mineral access road heading north from Fort St. James was started in the late 1940s. It was built in stages and reached Moose Valley in the early 1970s. It was later extended north as far as the Toodoggone River to service the short lived Baker and Cheni gold mines. This road now services the new Kemess mine and passes within one (1) kilometer of the Thor-Marmot claim group.

Within the Moose Valley-Marmot area, mineralization of interest was first reported during a regional mapping program of the Geological Survey of Canada in the early 1940s (Lord, 1948). A sample from a 1.5m wide silicified shear zone assayed 4.4g/tonne gold, 5.1% copper and 123g/tonne silver. The first claims were staked in the early 1960s by W. D. Savage, and optioned in 1966 to New Wellington Resources Ltd. In 1966 New Wellington completed a program consisting of geological mapping, IP surveying (two (2) lines across the Marmot showing), and bulldozer trenching. A total of 767m of trenching was completed, and about 20 acres of bedrock

was stripped (Mouritsen, 1966). In 1967, a further 1.6km of bulldozer stripping was completed, and one short hole was drilled (Campbell, 1968). In 1969, the property was optioned by Texada Mines Ltd, who carried out a 14-week program of soil sampling and geological mapping (Church, 1973). Five diamond drill holes totaling about 238 metres were drilled, three of which were on the main Marmot showing and the other two on the slope immediately to the west. Due to reported technical difficulties, none of the holes reached their target depth. A total of 2,066 soil samples was taken.

In the early 1970s BP Minerals, after a regional stream sediment survey, staked several claims in the central Thor area north of the present Marmot claims.

In 1973, Wesfrob Mines Ltd (a Falconbridge subsidiary under the overall direction of J. McDougall) optioned the Marmot property and in 1973 carried out a 300 line-kilometer airborne magnetic EM survey (Lockwood Surveys), and a 275 metre, 5-hole diamond drill program. Two of the drill holes were drilled to determine depth to bedrock, and two other holes tested weak VLF-EM conductors in readily accessible areas. No mineralization of interest was encountered. The fifth hole, drilled below one of the known Marmot mineralized zones, showed no values of interest although core recovery was very poor. The airborne survey, consisting of magnetics and electromagnetics, did outline a possible buried porphyry or semi-massive sulphide target within rocks of unknown derivation, as well as generating many EM anomalies believed caused by carbonaceous beds (Brown 1973). No drill testing of anomalies was carried out, as Wesfrob postponed further work on its main priority, the "Sustut" copper property, leaving the area late in the season.

In 1984, B.P. Resources carried out a program of silt and rock chip sampling as a follow up to their earlier program in the central claim area (Heberlein, 1984).

Also in 1984 Falconbridge carried out an exploration program in the Moose Valley area (including the north part of the current Thor-Marmot claims) targeting paleoplacer gold deposits in the clastic sediments of the Sustut Group (Lehtinen, 1984). Copper- and gold-bearing shears hosted in volcanic rocks on the Thor 3 claim were also investigated.

In 1987 Mingold Resources Ltd. resampled the known occurrences in the area and staked the KMA claims. In 1988, a program of rock sampling, prospecting and soil sampling was carried out on the more northerly "Thorne" claims by Asamera Minerals Inc. Additional claims were staked in 1989 and further soil and rock sampling completed, but further test recommendations submitted to Asamera were not followed through on.

In 1990, Mingold (Reynolds 1990) carried out further exploration consisting of rock and soil sampling near the Marmot prospect, extending the copper and gold anomalies to the north, and to the south. An altered andesitic float sample (source not discovered) reportedly assayed 28.80 g/tonne (0.84 oz/ton) gold, and 1% copper.

In 1992, Electrum Resources Corporation staked the Thor 1-7 group of claims several kilometers to the north, covering much of the abandoned Thorne ground, and eventually consolidated a new Thor group in 1995 contiguous with the Marmot (1992) property to the south. Work by Electrum (Staarguard, 1992-93) consisted of geochemical and VLF-EM surveys, largely designed to trace important fault structures southward from the Kemess copper-gold porphyry deposit.

In 1995, on behalf of Electrum Resource Corp, S. Zastavnikovich, geochemist and the author of the 1995 report, conducted soil and rock samplings as well as a VLF-EM survey in an attempt to better locate the Moose Valley fault zone which traverses the length of the claims.

In early 1997, San Telmo Resources Ltd. optioned the Thor 2, 3, 8, 9, and Marmot claims from Electrum and staked the Thor 11, Thor 12, and Marmot 2 claims. In March of 1997, San Telmo completed an airborne geophysical survey (EM and Mag) over the area. Field expenditures on the Thor-Marmot Group by Electrum to 1995 totaled approximately \$40,000. Total "pre 1996" expenses on portions of the property are estimated to exceed \$100,000 (in 1970 +/- dollars). Only a small portion of this, however, was spent on drilling, restricted to only a few short poor-recovery holes on the Marmot property.

Expenditures by San Telmo prior to the commencement of the current program exceed \$100,000, the largest item being the 1997 airborne geophysical program, which cost approximately \$88,000.

In 1998, San Telmo contracted Gordon J. Allen, P.Geo to conduct a small amount of geological mapping and rock sampling as well as 692.21m of diamond drilling.

In 2006, Electrum Resource Corp conducted geochemical rock, soil and drainage sampling on the Thor property in order to identify geochemical anomalies for porphyry type copper-gold mineralization. As well, drill core from the 1998 program was resampled and reanalyzed.

In 2009, Quantec Geoscience Ltd conducted a Titan-24 survey over the Thor Grid, with a total expenditure of \$140,000 from July 25th to August 2nd and August 15th to August 18th 2009.

5. GEOLOGICAL SETTING

5.1 REGIONAL GEOLOGY

The property geology consists of a central north-south belt of upper Triassic Takla Group volcanics intruded to the east by early Jurassic granodiorites and to the west erratically along the fault contact with early Tertiary Sustut Group sediments (Figure 4).

From Tipper (1976):

Takla Group

The Takla Group comprises basaltic and andesitic volcanic rocks, with a preponderance of augite porphyry, pelitic sedimentary rocks, and minor carbonate rocks. Its age is mainly Late Triassic (Late Karnian to Middle Norian, possibly late Norian). The type area, as defined by Armstrong (1949, p.51), is in the vicinity of Takla Lake, although it is much better exposed to the north in the McConnell Creek area. There, this definition fits remarkably well with Lord's Lower Division of the Takla Group (Lord, 1948). A refining of the Takla Group has recently been undertaken (Monger, 1974, 1976; Monger, in press; Church, 1974), and its definition in these works is used in this report. This definition would make the Takla Group correlative with the Nicola Group (Tipper, 1959, p.38). Not everywhere is the Takla-Nicola Group volcanism confined to the Late Triassic as, in the Bonaparte Lake area, augite porphyry volcanics continued to accumulate until Early Sinemurian time (Campbell and Tipper, 1971). Paleontological evidence in the present study area, however, indicates that Takla volcanism ceased before Early Jurassic time.

Sustut Group

Lord (1948, p.34) defined the Sustut Group as "a thick assemblage of conspicuously embedded and banded continental strata of relatively simple structure." It includes conglomerate, sandstone, shale, and bands of tuff: Eisbacher (1974a, p.8-11) subdivided the group into two formations: a lower, Tango Creek, and an upper, Brothers Peak, and these, in turn, were subdivided into several members, the Niven and Tatlatui for the former, and the Laslui and Spatsiszi for the latter. The age is believed to be Late Cretaceous (Cenomanian) to Tertiary (Eocene).

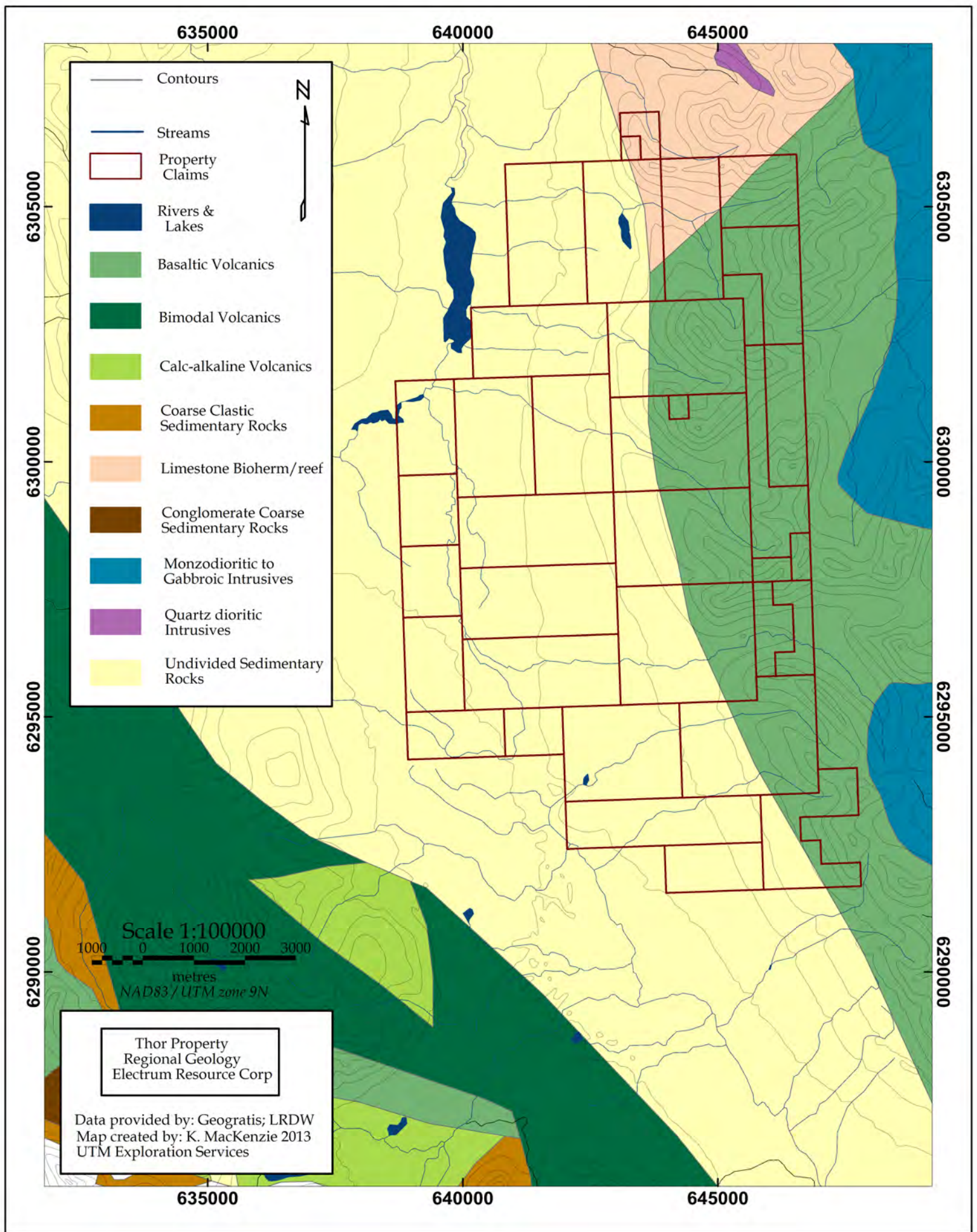


Figure 4. Regional Geology Map.

5.2 LOCAL GEOLOGY

From Tipper (1976) and Allen (1998):

Volcanic rocks of the Upper Triassic Takla Group predominantly underlie the eastern parts of the claims as observed during the 1998 field-mapping program. These rocks were only traversed on the north part of the claim block during that program. Where observed they generally consisted of coarse grained plagioclase augite pyric basalt or andesite flows and minor amounts of intercalated volcanoclastic rocks, probably of the Savage Mountain Formation.

Medium-grained granitic (granodiorite?) plugs have intruded Takla Group volcanic rocks. Only one intrusion in the north end of the claim group was observed during the 1998 program. The rock is a medium greenish grey, strongly sericite-altered medium-grained biotite-hornblende granodiorite (?).

Sustut Group elastic sedimentary rocks probably underlie the western part of the property, although exposure is poor and contacts are not well defined. Sustut Group rocks are only observed at the south end of the claim block, on surface near the Marmot 2 claim, and in drill hole Mar 98-01. At both of these locations the rock consists of poorly consolidated pebble to cobble conglomerate with abundant rounded clasts of Takla Group volcanic rock, lesser amounts of granitic material, and vein quartz.

Falconbridge Ltd. obtained up to one (1) gram of gold per tonne in Sustut Group conglomerates well west of the claim group. During their exploration for paleoplacer deposits in the area they located conglomerate outcrops near the western extremity of the current Thor 12 claim and a second outcrop of conglomerate roughly one (1) kilometre to the west.

The Takla Group volcanic rocks are sporadically gossanous in zones up to one (1) kilometre wide. These zones contain disseminated pyrite, are highly fractured, and appear to be related to fault zones. A few of these gossanous zones were investigated but to date, copper and gold grades have been found to be very low.

Takla Group rocks also host north to north-northeast trending gossanous shear zones up to 10 metres wide, commonly with quartz or quartz carbonate vein cores. These veins range in width from a few centimetres to over two (2) metres, and generally carry pyrite, chalcopyrite and varying amounts of gold up to over 100 grams per tonne. One of these structures has been traced for over a kilometre and was the target of much of the drilling in 1998. Several of these northerly-trending veins/shears were investigated and sampled during this 1998 program.

One occurrence of copper-gold porphyry-type mineralization was discovered during the 1998 program in an altered granitic intrusion.

6. EXPLORATION

6.1 METHODOLOGY AND PROCEDURE

6.1.1 SOIL SAMPLING

Between August 8th and August 17th, 2013, a two-person crew from UTM Exploration Services conducted a detailed geochemical soil survey sampling program across the Thor-Marmot claims. Soil samples were taken at 50m sample spacing and 800m line spacing in order to adequately cover the historical IP grid. A total of 141 soil samples were taken using a spade shovel from depths of 15cm to 80cm over the Thor-Marmot claims. In total, based upon the design and approach provided to UTM Exploration by Electrum Resource Corp, two hundred and sixteen (216) sites were visited. All sample sites were first tested to assure that the desired “B-Horizon” sample medium could indeed be located and effectively sampled. Seventy-five (75) sample sites did not meet the necessary criteria mostly due to marshy and bog like conditions, waterways, and extensively organic rich areas. The soil sampling occurred on four (4) different east-west oriented “lines”; lines that were previously developed to conduct a local geophysical survey, thus the 2013 geochemical soil sampling program was designed to provide an additional layer of geological data to better identify potential drill targets. All soil samples taken are found in Appendix I as well as on Figure 5.

The 4 sample lines on the maps found in Appendices III and IV are as follows, from south to north:

- Line 6295800N
- Line 6296600N
- Line 6297400N
- Line 6298200N

The location of all samples was recorded as well as horizon taken from, soil composition, soil colour and visual comments. Location was determined using a handheld Garmin CSx GPS unit. Samples were collected in kraft paper sample bags and uniquely labeled with UTM sample tags. Samples were dried each evening, catalogued into an excel spreadsheet, marked on a field map and bagged, nine (9) samples to a poly bag, and submitted to the ACME prep lab in Smithers, B.C. at the end of the program.

All samples were transported directly to the lab by UTM personnel. All soil samples were prepped in Smithers, B.C. and then the pulps were transported to the Vancouver, B.C. laboratory for full analysis. Soils were analyzed using an ICP-MS method with all gold values reported in parts per billion (ppb) while all other elements were recorded in parts per million (ppm) or percentage. A complete description of the ACME analytical techniques is presented in Appendix II and the certificate of analysis are attached as Appendix I. ACME labs is an ISO---9000 certified laboratory.

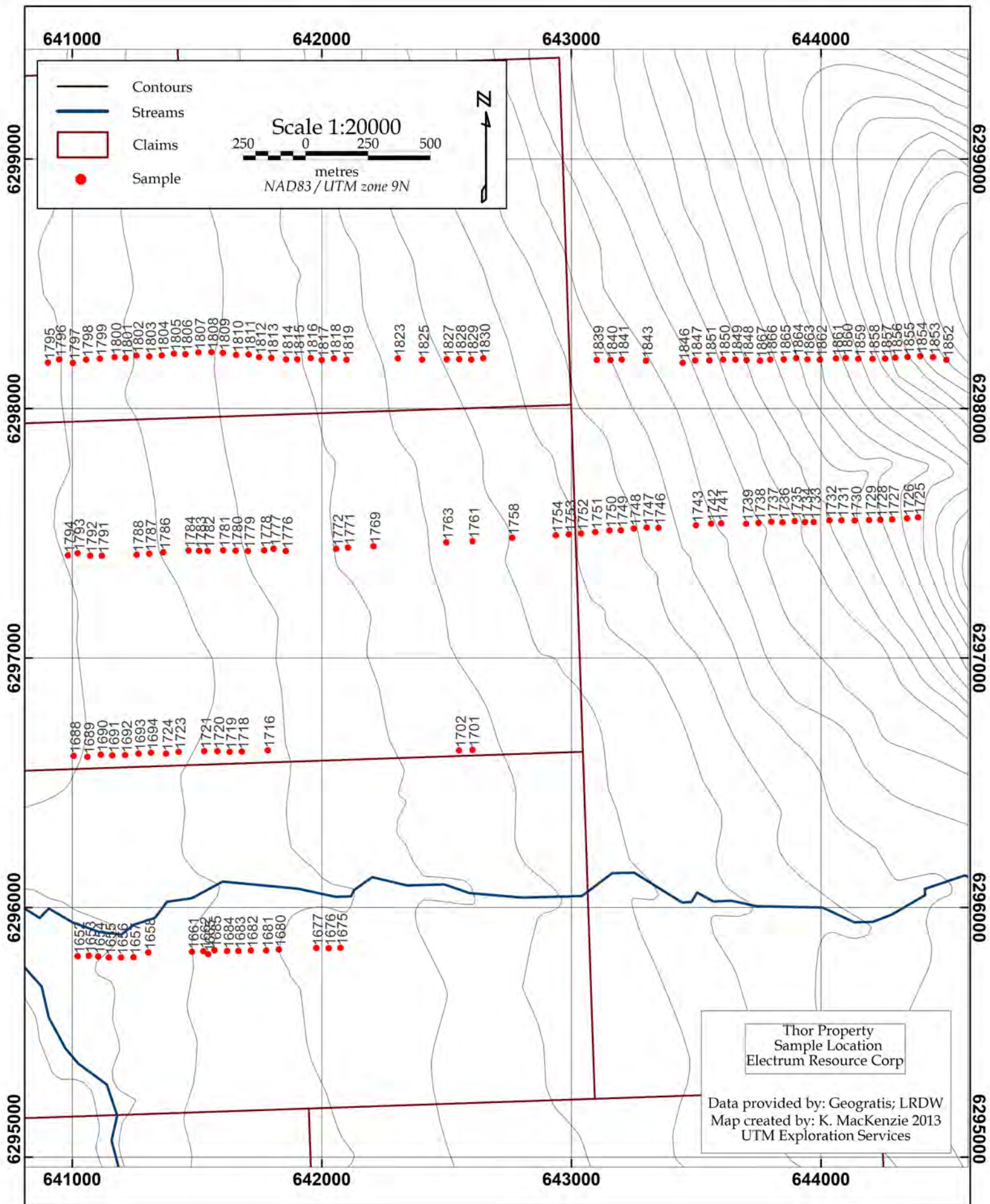


Figure 5. Soil Sample Location Map.

7. SAMPLING

7.1 SAMPLING METHOD AND APPROACH

See section 6.1.1 for details of on-site sampling methods. After sample collection, samples were bagged, sealed with a sample list, and stored by UTM personnel until they were delivered to ACME Labs preparatory lab in Smithers, BC.

7.2 SAMPLE PREPARATION, ANALYSES, AND SECURITY

Lab methodology is described in Appendix II.

7.3 DATA VERIFICATION

No standards or blanks were submitted, a common practice for soil sampling. ACME Labs runs its own in-lab soil standard and blank tests regularly.

7.4 RESULTS

All assay results may be found in Appendix I. Sample geochemical maps may be perused in Appendix III.

8. INTERPRETATION AND CONCLUSION

The soil samples collected on the Thor-Marmot property have outlined a relatively strong and potentially anomalous zone that is present on the eastern boundaries of the two northernmost sample lines. This anomalous zone appears to correlate well between various trace elements, in particular copper and gold (see geochemical contour images in Appendix IV). Due to watery, marsh and bog-like ground conditions, portions of Line 5800N and Line 6600N could not be efficiently sampled; however, given the data that does exist there appears to be a north to north-northwest linear anomalous zone between Line 6600N and Line 8200N. Though the line spacing is considered too far apart to properly contour the existing assay data, the point data along the lines does illustrate areas of potential anomalies that coincide quite well with the 2009 Titan-24 survey performed on the property, over the same east-west lines, by Quantec Geoscience Ltd. (see excerpt maps from the 2009 survey in Appendix V). The Quantec maps are from Line 5800N and Line 7400N and show assumed structures and anomalous zones based upon the geophysics. It is along these same lines at similar locations that the 2013 soil survey intimates anomalous zones of copper and gold. During the 2013 soil survey, Line 8200N was sampled successfully from west to east and it is along this line that we observe the greatest anomalous assay values for both copper and gold, and it is these anomalous areas that appear to successfully extend the areas of interest and the structures found and interpreted in 2009.

9. RECOMMENDATIONS

While the entire area was planned to be soil sampled at 800m line spacing and 50m sample spacing, exploration was limited due to ground conditions.

The property boasts a significant amount of historical data collected over the years and as a result, exhibits substantial potential. Further work is warranted on the property and the following is recommended:

- **Phase I: Titan-24 survey to the north:** Complete additional lines to the north: L8200, L9000, L9800 and L10600
- **Phase II: Geochemical soil sampling:** Infill soil sample lines at L6800N, L7000N, L7200N, L7600N, L7800N, L8000N, L8400N and L8600N
- **Phase III: Drill Program:** testing high priority targets

10. Statement of Costs

ELECTRUM RESOURCE CORPORATION					
SOIL SAMPLING PROGRAM					
THOR MARMOT PROPERTY					
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal	
Steve Oxtoby	August 8 - 17	9.5	\$440.00	\$4,180.00	
Thomas Oxtoby	August 8 - 17	9	\$440.00	\$3,960.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$8,140.00	\$8,140.00
Office Studies	List Personnel (note - Office only, do not include field days)	Hours	Rate	Subtotal	
Map/field preparation	Richard Beck (Aug. 6 - 8)	12.0	\$55.00	\$660.00	
Field/yard preparation	Gerald Maurer (Aug. 6 - 8)	12.0	\$55.00	\$660.00	
Post field report preparation	Kay Mackenzie (Sept. 4 - 6)	8.0	\$55.00	\$440.00	
Report preparation	Richard Beck (Sept.- Nov.)	36.0	\$55.00	\$1,980.00	
Report preparation	Anastasia Ledwon (Sept.- Nov.)	6.0	\$105.00	\$630.00	
GIS	Sept. - Nov.	12.0	\$70.00	\$840.00	
Expediting/field preparation	Steve Oxtoby (Aug. 7)	6.0	\$55.00	\$330.00	
				\$5,540.00	\$5,540.00
Airborne Exploration Surveys	Line Kilometres / Enter total invoiced amount				
Aeromagnetics			\$0.00	\$0.00	
Radiometrics			\$0.00	\$0.00	
Electromagnetics			\$0.00	\$0.00	
Gravity			\$0.00	\$0.00	
Digital terrain modelling			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Remote Sensing	Area in Hectares / Enter total invoiced amount or list personnel				
Aerial photography			\$0.00	\$0.00	
LANDSAT			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Ground Exploration Surveys	Area in Hectares/List Personnel				
Geological mapping				\$0.00	
Regional					<i>note: expenditures here</i>
Reconnaissance					<i>should be captured in Personnel</i>
Prospect					<i>field expenditures above</i>
Underground	Define by length and width			\$0.00	
Trenches	Define by length and width			\$0.00	
				\$0.00	\$0.00
Ground geophysics	Line Kilometres / Enter total amount invoiced list personnel				
Radiometrics					
Magnetics					
Gravity					
Digital terrain modelling					
Electromagnetics					<i>note: expenditures for your crew in the field</i>
SP/AP/EP					<i>should be captured above in Personnel</i>
IP					<i>field expenditures above</i>
AMT/CSAMT					
Resistivity					
Complex resistivity					
Seismic reflection					
Seismic refraction					
Well logging	Define by total length				
Geophysical interpretation					
Petrophysics					
Other (specify)					
				\$0.00	\$0.00

Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Drill (cuttings, core, etc.)			\$0.00	\$0.00	
Stream sediment			\$0.00	\$0.00	
Soil	<i>note: This is for assays or</i>	141.0	\$0.00	\$2,821.10	
Rock	<i>laboratory costs</i>		\$0.00	\$0.00	
Water			\$0.00	\$0.00	
Biogeochemistry			\$0.00	\$0.00	
Whole rock			\$0.00	\$0.00	
Petrology			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$2,821.10	\$2,821.10
Drilling	No. of Holes, Size of Core and Metres	No.	Rate	Subtotal	
Diamond			\$0.00	\$0.00	
Reverse circulation (RC)			\$0.00	\$0.00	
Rotary air blast (RAB)			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Other Operations	Clarify	No.	Rate	Subtotal	
Trenching			\$0.00	\$0.00	
Bulk sampling			\$0.00	\$0.00	
Underground development			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Reclamation	Clarify	No.	Rate	Subtotal	
After drilling			\$0.00	\$0.00	
Monitoring			\$0.00	\$0.00	
Other (specify)			\$0.00	\$0.00	
				\$0.00	\$0.00
Transportation		No.	Rate	Subtotal	
Airfare			\$0.00	\$0.00	
Taxi			\$0.00	\$0.00	
truck rental		10.00	\$100.00	\$1,000.00	
kilometers		2170.00	\$0.75	\$1,627.50	
ATV			\$0.00	\$0.00	
fuel			\$0.00	\$0.00	
Helicopter (hours)			\$0.00	\$0.00	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					
				\$2,627.50	\$2,627.50
Accommodation & Food	Rates per day	No.	Rate	Subtotal	
Hotel	@ Cost	1.00	\$235.14	\$235.14	
Camp	On site camp	14.00	\$75.00	\$1,050.00	
Meals	Per diems	18.00	\$45.00	\$810.00	
				\$2,095.14	\$2,095.14
Miscellaneous					
Propane				\$125.00	
Field supplies				\$615.72	
Other (Specify)					
				\$740.72	\$740.72
Equipment Rentals					
Sattelite phone/radios				\$330.00	
Saw rental				\$200.00	
				\$530.00	\$530.00
<i>SUB-TOTAL Expenditures</i>					\$22,494.46
Management Fee					
			12%	\$2,699.34	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$2,699.34	\$2,699.34
<i>TOTAL Expenditures</i>					\$25,193.80

11. REFERENCES

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- Brown, D.H. (1973). Report on Airborne Geophysical Work, Marmot GP Assessment Report 4254 for Wesfrob Mines Limited.
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Zastavnikovich, S. (Nov 2006): Geochemical & Geophysical Assessment Report on the Thor group mineral claims. *BC Ministry of Energy and Mines*, Assessment Report 28263.

12. Statement of Qualifications

I, Anastasia Ledwon, do hereby state that:

1. I reside at 4901 Slack Road, Smithers, BC V0J 2N2
2. I am an owner and the Professional Geoscientist for UTM Exploration Services Ltd. of Smithers, BC.
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of BC and have been since September, 2009. License # 33898.
4. I graduated from the University of Victoria in 1997 with a Bachelor of Science degree in Earth and Ocean Sciences, With Honours, With Distinction.
5. I have no investments or stock options in this property nor Electrum Resource Corp.
6. This Statement refers to the 2013 Technical Assessment Report for the Marmot Property, for Electrum Resources Inc.
7. I did not visit the project site but am directly involved in UTM's QA/QC procedures and assisted Mr. Beck and UTM in setting up this program and writing this subsequent report.

Signed this 20th day of November, 2013, in Smithers, BC.

Anastasia Ledwon, P.Ge #33898
UTM Exploration Services Ltd.

I, Richard Beck, residing at 4901 Slack Road, Smithers, British Columbia, do hereby certify that:

- I am part owner of and currently employed as the Ex. Vice President of Exploration and Development and President by:

UTM Exploration Services Ltd

PO Box 5037

Smithers, BC V0J 2N2

- I attended Dalhousie University from 1985 to 1989, specializing in geology;
- Between 1987 and 1990, and 1996 to present I have been continuously employed as a junior geologist/project manager/senior exploration geologist in the mineral exploration sector;

- I did not visit this property but supervised the data herein collected.

Dated at Smithers, British Columbia, this 20th day of November, 2013.

Richard Beck

President and Executive VP of Exploration and Development

UTM Exploration Services Ltd.

APPENDIX I: ASSAY CERTIFICATES



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Electrum Resources**
912 - 510 W. Hastings St.
Vancouver BC V6B 1L8 CANADA

Submitted By: Email Distribution List
Receiving Lab: Canada-Smithers
Received: September 19, 2013
Report Date: October 03, 2013
Page: 1 of 6

CERTIFICATE OF ANALYSIS

SMI13000304.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 141

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

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

Invoice To: Electrum Resources
912 - 510 W. Hastings St.
Vancouver BC V6B 1L8
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	141	Dry at 60C			SMI
SS80	141	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	141	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
RJSV	141	Saving all or part of Soil Reject			SMI

ADDITIONAL COMMENTS



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. Acme 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.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
 PHONE (604) 253-3158

Client: **Electrum Resources**
 912 - 510 W. Hastings St.
 Vancouver BC V6B 1L8 CANADA

Project: None Given
 Report Date: October 03, 2013

Page: 2 of 6

Part: 1 of 2

CERTIFICATE OF ANALYSIS

SMI13000304.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
001652	Soil	0.9	46.2	5.7	60	<0.1	17.4	13.9	609	3.20	4.4	2.9	1.0	63	0.2	0.3	<0.1	96	0.92	0.069	7
001653	Soil	1.0	46.0	5.5	57	<0.1	17.6	14.2	631	3.33	4.5	3.4	0.9	65	0.2	0.3	<0.1	103	0.97	0.064	7
001654	Soil	1.0	34.7	6.1	62	<0.1	18.0	14.1	621	4.43	4.0	3.7	1.0	58	0.3	0.3	<0.1	140	0.88	0.078	7
001655	Soil	1.1	41.0	5.4	60	<0.1	18.0	14.8	646	3.30	4.1	1.5	0.9	63	0.4	0.3	<0.1	103	0.90	0.065	7
001656	Soil	1.1	33.4	5.4	54	<0.1	17.2	14.5	563	3.38	4.3	1.9	0.7	58	0.1	0.3	<0.1	105	0.80	0.064	6
001657	Soil	1.3	24.5	7.1	45	0.2	12.3	9.7	469	4.13	6.2	2.6	0.3	56	0.5	0.3	<0.1	117	0.64	0.087	4
001658	Soil	0.7	18.3	4.4	92	0.2	18.4	10.6	381	3.50	3.0	2.2	1.2	34	0.3	0.3	<0.1	98	0.39	0.081	6
001661	Soil	0.7	22.5	4.2	54	0.2	21.9	9.2	447	3.47	5.1	9.9	0.6	73	0.2	0.2	<0.1	82	0.44	0.055	9
001662	Soil	0.7	22.4	5.0	54	0.4	16.5	9.6	695	2.90	3.1	2.7	0.2	48	0.3	0.2	<0.1	78	0.36	0.073	9
001665	Soil	0.4	40.4	4.5	48	<0.1	17.4	11.9	626	3.33	4.0	5.1	1.5	66	0.2	0.3	<0.1	97	0.86	0.072	8
001675	Soil	0.3	26.0	4.0	44	<0.1	16.2	9.2	373	2.90	3.2	2.0	1.2	55	0.1	0.2	<0.1	88	0.70	0.057	8
001676	Soil	0.2	22.0	4.0	46	<0.1	16.5	9.4	330	2.73	3.2	2.1	1.4	44	0.2	0.2	<0.1	78	0.56	0.082	7
001677	Soil	0.6	27.1	5.5	58	<0.1	17.9	11.0	450	3.19	3.2	1.3	1.1	43	0.3	0.2	<0.1	89	0.45	0.087	9
001680	Soil	0.6	28.3	5.1	50	<0.1	22.6	11.5	301	3.49	4.2	4.4	1.6	44	0.2	0.3	<0.1	93	0.44	0.058	8
001681	Soil	0.4	22.5	4.5	51	<0.1	18.6	9.3	316	2.89	3.1	3.3	1.7	47	0.2	0.3	<0.1	84	0.56	0.053	9
001682	Soil	0.3	21.0	4.0	48	<0.1	16.7	8.7	326	2.59	2.4	3.8	1.5	50	0.2	0.3	<0.1	79	0.60	0.057	11
001683	Soil	0.4	18.7	4.6	42	<0.1	16.8	8.8	312	2.58	2.7	3.4	1.3	56	0.2	0.2	<0.1	77	0.60	0.049	11
001684	Soil	0.5	17.7	6.2	47	0.4	11.5	5.9	232	2.29	1.7	5.2	0.1	41	0.3	0.2	<0.1	68	0.35	0.057	9
001685	Soil	0.4	19.7	4.2	39	<0.1	15.4	7.2	239	2.35	2.8	3.7	0.4	41	0.2	0.2	<0.1	73	0.43	0.049	8
001688	Soil	0.4	17.0	4.4	47	<0.1	15.8	7.8	334	2.82	3.8	4.7	0.7	39	0.1	0.2	<0.1	82	0.42	0.075	7
001689	Soil	0.4	12.4	4.8	39	<0.1	11.3	6.3	209	2.43	2.5	1.7	1.1	29	0.2	0.2	<0.1	72	0.26	0.085	6
001690	Soil	0.3	14.8	4.2	44	<0.1	13.0	8.1	357	3.05	3.5	2.2	1.1	27	0.3	0.2	<0.1	93	0.33	0.107	5
001691	Soil	0.4	12.1	4.9	47	0.3	11.7	6.7	214	2.59	2.0	4.1	1.3	24	0.1	0.2	<0.1	77	0.24	0.039	6
001692	Soil	0.5	24.2	4.4	43	<0.1	18.5	10.4	411	2.97	3.6	7.7	1.6	43	<0.1	0.3	<0.1	87	0.48	0.047	8
001693	Soil	0.3	22.6	3.8	43	<0.1	17.2	9.6	337	2.88	3.8	2.8	1.5	39	0.1	0.2	<0.1	83	0.39	0.052	7
001694	Soil	0.4	10.6	4.7	35	<0.1	11.7	6.3	224	2.35	2.0	9.2	1.2	23	0.2	0.2	<0.1	73	0.22	0.043	5
001701	Soil	3.1	32.0	5.4	61	0.1	17.8	13.6	1862	3.38	4.3	9.8	0.8	72	0.5	0.3	<0.1	101	1.32	0.066	8
001702	Soil	0.9	29.3	4.6	34	<0.1	15.3	9.2	341	2.61	3.0	7.3	0.7	54	0.2	0.3	<0.1	82	1.02	0.041	7
001716	Soil	0.5	36.6	4.1	40	0.1	18.6	10.1	373	2.89	4.8	3.9	1.0	51	0.3	0.3	<0.1	88	0.76	0.063	8
001718	Soil	0.3	24.2	4.5	44	<0.1	19.3	11.5	369	3.11	3.7	1.3	1.5	42	0.2	0.3	<0.1	98	0.45	0.041	8

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.



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Project: None Given
 Report Date: October 03, 2013

Page: 2 of 6

Part: 2 of 2

CERTIFICATE OF ANALYSIS

SMI13000304.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
001652	Soil	42	0.85	123	0.123	2	1.90	0.021	0.04	0.1	0.02	6.9	<0.1	<0.05	6	<0.5	<0.2
001653	Soil	43	0.81	109	0.131	2	1.79	0.019	0.04	0.1	0.01	7.1	<0.1	<0.05	5	<0.5	<0.2
001654	Soil	68	0.82	99	0.134	3	1.86	0.014	0.05	0.1	0.02	7.1	<0.1	<0.05	6	<0.5	<0.2
001655	Soil	41	0.85	111	0.127	3	1.89	0.017	0.05	0.1	0.02	7.3	<0.1	<0.05	6	<0.5	<0.2
001656	Soil	42	0.80	99	0.120	2	2.01	0.015	0.04	<0.1	0.02	6.1	<0.1	<0.05	6	<0.5	<0.2
001657	Soil	37	0.53	108	0.108	2	2.02	0.014	0.05	<0.1	0.06	4.7	<0.1	<0.05	10	<0.5	<0.2
001658	Soil	44	0.60	113	0.089	1	2.33	0.011	0.04	0.1	0.04	6.1	<0.1	<0.05	7	<0.5	<0.2
001661	Soil	45	0.63	128	0.066	2	2.16	0.011	0.04	<0.1	0.05	6.2	<0.1	<0.05	6	<0.5	<0.2
001662	Soil	35	0.48	116	0.051	2	1.85	0.010	0.04	<0.1	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
001665	Soil	41	0.75	128	0.143	2	1.85	0.018	0.05	0.1	0.04	7.9	<0.1	<0.05	5	<0.5	<0.2
001675	Soil	42	0.61	129	0.135	2	1.80	0.014	0.05	<0.1	0.02	7.7	<0.1	<0.05	5	<0.5	<0.2
001676	Soil	37	0.54	119	0.114	<1	1.61	0.010	0.04	<0.1	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
001677	Soil	41	0.56	126	0.114	<1	2.03	0.012	0.06	<0.1	0.02	6.9	<0.1	<0.05	6	<0.5	<0.2
001680	Soil	43	0.64	146	0.109	1	2.68	0.015	0.05	<0.1	0.06	7.1	<0.1	<0.05	7	<0.5	<0.2
001681	Soil	42	0.62	121	0.130	2	1.96	0.013	0.05	<0.1	0.05	6.5	<0.1	<0.05	5	<0.5	<0.2
001682	Soil	41	0.55	114	0.126	<1	1.73	0.012	0.05	<0.1	0.03	7.1	<0.1	<0.05	5	<0.5	<0.2
001683	Soil	40	0.56	125	0.114	<1	1.80	0.014	0.04	<0.1	0.03	6.9	<0.1	<0.05	5	<0.5	<0.2
001684	Soil	32	0.41	133	0.051	<1	1.62	0.010	0.04	<0.1	0.03	3.5	<0.1	<0.05	7	<0.5	<0.2
001685	Soil	35	0.53	101	0.077	2	1.83	0.013	0.03	<0.1	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
001688	Soil	37	0.52	104	0.086	1	1.83	0.010	0.03	<0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
001689	Soil	34	0.44	70	0.093	<1	1.71	0.008	0.03	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
001690	Soil	37	0.46	72	0.100	2	1.67	0.008	0.03	<0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2
001691	Soil	35	0.41	78	0.079	1	1.69	0.010	0.03	<0.1	0.03	4.5	<0.1	<0.05	6	<0.5	<0.2
001692	Soil	42	0.65	114	0.114	<1	1.94	0.012	0.04	<0.1	0.03	7.2	<0.1	<0.05	6	<0.5	<0.2
001693	Soil	41	0.59	104	0.110	1	1.87	0.012	0.03	<0.1	0.04	6.9	<0.1	<0.05	5	<0.5	<0.2
001694	Soil	30	0.38	66	0.085	<1	1.57	0.009	0.03	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
001701	Soil	40	0.72	192	0.089	2	2.29	0.016	0.06	<0.1	0.05	9.2	<0.1	<0.05	7	<0.5	<0.2
001702	Soil	31	0.57	126	0.097	1	1.95	0.015	0.05	<0.1	0.03	5.7	<0.1	<0.05	6	<0.5	<0.2
001716	Soil	37	0.63	130	0.106	2	2.30	0.015	0.03	<0.1	0.04	7.3	<0.1	<0.05	5	<0.5	<0.2
001718	Soil	45	0.76	119	0.125	1	2.46	0.013	0.03	<0.1	0.02	8.0	<0.1	<0.05	6	<0.5	<0.2



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Project: None Given
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CERTIFICATE OF ANALYSIS

SMI13000304.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
001719	Soil		0.3	22.1	4.0	41	<0.1	19.1	10.8	370	3.03	3.5	7.9	1.6	42	0.1	0.3	<0.1	91	0.48	0.054	8
001720	Soil		0.9	14.0	6.4	56	0.3	10.1	7.5	430	4.67	3.9	0.9	0.9	27	0.3	0.3	<0.1	135	0.25	0.168	5
001721	Soil		0.7	21.4	4.3	38	0.4	16.1	9.5	272	3.35	4.9	4.8	1.1	34	0.2	0.2	<0.1	94	0.39	0.062	8
001723	Soil		0.3	23.0	3.8	42	<0.1	18.6	11.5	448	2.53	2.5	6.6	1.7	52	<0.1	0.2	<0.1	74	0.63	0.042	10
001724	Soil		0.5	20.8	4.7	48	0.1	15.7	9.9	430	2.94	4.0	2.3	1.2	43	0.2	0.3	<0.1	84	0.36	0.072	6
001725	Soil		1.1	25.4	6.7	52	0.2	13.8	7.8	246	3.22	3.1	3.1	0.2	27	0.3	0.3	<0.1	100	0.31	0.046	5
001726	Soil		1.3	23.5	6.7	64	0.5	13.4	8.9	415	4.33	3.6	3.2	0.2	33	0.5	0.4	0.1	135	0.37	0.070	5
001727	Soil		1.2	21.8	7.3	78	<0.1	9.3	8.1	449	3.53	2.6	3.6	0.2	40	0.4	0.4	0.2	123	0.85	0.066	9
001728	Soil		1.4	30.0	6.4	64	0.2	14.2	11.4	1055	3.08	1.9	4.3	0.2	52	0.7	0.3	0.1	111	1.02	0.073	9
001729	Soil		2.0	60.6	8.0	89	0.3	20.0	13.4	598	3.69	3.1	2.9	0.3	65	0.9	0.4	<0.1	103	1.54	0.097	8
001730	Soil		1.2	16.5	7.2	29	0.1	5.9	3.9	155	1.85	<0.5	2.7	<0.1	38	0.3	0.3	0.1	72	0.37	0.057	7
001731	Soil		0.8	17.6	6.2	55	0.2	14.7	9.0	363	4.34	4.0	4.0	0.8	26	0.3	0.3	<0.1	131	0.24	0.079	6
001732	Soil		1.2	27.8	6.4	61	0.1	16.9	10.7	377	4.18	4.0	5.5	0.9	32	0.2	0.4	<0.1	142	0.29	0.034	9
001733	Soil		0.8	13.0	6.2	51	0.2	11.5	7.3	329	3.30	1.9	2.9	0.3	26	0.2	0.3	0.1	113	0.25	0.043	6
001734	Soil		1.5	21.0	8.3	53	0.2	14.1	9.9	393	3.28	2.6	5.7	0.2	38	0.2	0.3	0.2	120	0.30	0.053	6
001735	Soil		0.8	14.1	6.6	51	<0.1	11.6	6.7	509	4.00	2.9	99.6	0.2	25	0.3	0.4	0.1	133	0.30	0.072	5
001736	Soil		1.6	42.8	7.3	51	0.1	19.4	12.9	546	3.47	3.8	10.8	1.2	58	0.2	0.5	<0.1	115	0.87	0.054	8
001737	Soil		0.8	42.2	8.7	64	<0.1	19.9	14.4	673	3.53	3.3	19.1	1.2	60	0.3	0.5	<0.1	110	0.76	0.066	8
001738	Soil		1.0	49.7	9.4	76	<0.1	21.0	15.0	630	3.46	3.5	8.0	1.2	70	0.6	0.4	<0.1	111	1.04	0.052	7
001739	Soil		1.1	33.8	8.3	80	0.1	18.0	12.6	586	3.13	2.9	7.1	0.5	71	0.3	0.4	0.1	108	0.93	0.050	6
001741	Soil		1.5	13.2	8.2	40	0.1	7.2	4.7	180	2.12	<0.5	4.2	0.4	31	0.2	0.3	0.1	92	0.29	0.035	5
001742	Soil		1.3	13.0	5.9	39	<0.1	10.9	6.7	278	2.61	2.2	3.1	0.3	41	0.2	0.2	<0.1	101	0.48	0.032	5
001743	Soil		0.9	16.5	5.2	42	0.1	15.2	8.8	286	3.47	3.7	71.5	0.9	30	0.3	0.4	<0.1	119	0.35	0.031	5
001746	Soil		1.7	20.4	5.1	44	0.1	11.6	8.4	387	2.44	1.8	3.4	0.4	53	0.3	0.2	<0.1	94	0.99	0.039	6
001747	Soil		2.5	17.1	5.4	59	0.1	14.6	10.6	533	2.92	2.8	5.2	0.6	52	0.4	0.2	<0.1	103	0.78	0.033	6
001748	Soil		1.3	21.8	6.4	41	0.2	12.8	7.8	311	2.58	2.4	2.5	0.4	38	0.3	0.2	<0.1	88	0.45	0.032	9
001749	Soil		1.1	44.6	5.6	58	0.4	19.9	11.5	471	3.16	3.6	4.1	0.4	74	0.3	0.3	<0.1	100	1.29	0.069	9
001750	Soil		0.7	12.2	5.2	35	<0.1	10.8	6.3	243	2.25	2.5	1.9	0.6	34	0.3	0.2	<0.1	83	0.41	0.027	6
001751	Soil		0.7	21.2	5.0	44	0.1	14.4	8.8	332	3.25	3.6	14.9	0.6	41	0.4	0.3	<0.1	108	0.52	0.047	6
001752	Soil		0.7	17.5	4.9	53	0.2	14.0	8.4	311	3.35	4.1	3.2	0.7	33	0.3	0.2	<0.1	105	0.37	0.069	6

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
001719	Soil	41	0.68	89	0.121	1	2.22	0.010	0.04	<0.1	0.02	7.0	<0.1	<0.05	5	<0.5	<0.2
001720	Soil	35	0.39	100	0.120	1	2.45	0.010	0.03	0.1	0.07	5.0	<0.1	<0.05	10	<0.5	<0.2
001721	Soil	36	0.57	89	0.119	2	2.80	0.011	0.03	0.1	0.06	7.2	<0.1	<0.05	6	<0.5	<0.2
001723	Soil	37	0.62	120	0.119	<1	1.65	0.014	0.04	<0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2
001724	Soil	35	0.55	95	0.106	1	2.27	0.010	0.04	<0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
001725	Soil	37	0.47	154	0.069	<1	2.14	0.011	0.04	<0.1	0.04	4.1	<0.1	<0.05	8	<0.5	<0.2
001726	Soil	39	0.55	137	0.066	2	2.15	0.012	0.05	0.1	0.04	3.2	<0.1	0.05	10	<0.5	0.2
001727	Soil	34	0.48	176	0.051	3	1.96	0.015	0.04	<0.1	0.03	3.7	<0.1	<0.05	10	<0.5	0.3
001728	Soil	35	0.62	263	0.036	2	2.13	0.014	0.05	0.1	0.03	4.1	<0.1	<0.05	8	<0.5	0.2
001729	Soil	42	0.82	823	0.025	1	2.88	0.012	0.08	0.1	0.06	5.7	<0.1	0.08	10	<0.5	<0.2
001730	Soil	24	0.22	158	0.026	1	1.20	0.010	0.04	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
001731	Soil	44	0.58	87	0.105	1	1.84	0.010	0.04	0.1	0.03	4.4	<0.1	<0.05	9	<0.5	0.2
001732	Soil	46	0.66	122	0.121	2	2.26	0.013	0.04	0.1	0.02	6.8	<0.1	<0.05	9	<0.5	<0.2
001733	Soil	36	0.51	80	0.098	<1	1.50	0.011	0.05	<0.1	0.02	3.5	<0.1	<0.05	10	<0.5	<0.2
001734	Soil	33	0.89	69	0.119	1	1.81	0.012	0.05	<0.1	0.02	4.5	<0.1	<0.05	12	<0.5	<0.2
001735	Soil	41	0.41	87	0.073	1	1.58	0.010	0.04	<0.1	0.02	2.8	<0.1	<0.05	9	<0.5	<0.2
001736	Soil	56	0.78	114	0.112	3	1.76	0.015	0.06	0.1	0.02	7.1	<0.1	<0.05	6	<0.5	<0.2
001737	Soil	52	0.82	166	0.105	2	1.87	0.013	0.07	0.1	0.03	7.4	<0.1	<0.05	6	<0.5	<0.2
001738	Soil	50	0.86	160	0.092	3	2.14	0.016	0.05	0.1	0.03	8.2	<0.1	<0.05	6	0.6	<0.2
001739	Soil	45	0.84	192	0.083	2	2.04	0.015	0.05	0.1	0.02	6.1	<0.1	<0.05	7	<0.5	0.2
001741	Soil	24	0.33	117	0.088	<1	1.61	0.011	0.04	0.1	0.02	3.5	<0.1	<0.05	9	<0.5	<0.2
001742	Soil	33	0.53	109	0.084	2	1.35	0.011	0.04	<0.1	0.02	3.5	<0.1	<0.05	8	<0.5	<0.2
001743	Soil	44	0.56	59	0.107	2	1.71	0.011	0.03	0.1	0.03	4.3	<0.1	<0.05	7	<0.5	<0.2
001746	Soil	30	0.64	127	0.084	2	1.71	0.013	0.04	<0.1	0.03	5.3	<0.1	<0.05	8	<0.5	<0.2
001747	Soil	34	0.77	112	0.094	3	1.87	0.013	0.04	0.1	0.02	5.5	<0.1	<0.05	8	<0.5	<0.2
001748	Soil	34	0.59	115	0.069	2	1.82	0.011	0.04	<0.1	0.03	4.4	<0.1	<0.05	8	<0.5	<0.2
001749	Soil	39	0.82	220	0.065	3	2.60	0.019	0.08	<0.1	0.06	7.3	<0.1	0.05	8	<0.5	<0.2
001750	Soil	27	0.49	74	0.103	1	1.45	0.011	0.04	<0.1	0.02	4.3	<0.1	<0.05	7	<0.5	<0.2
001751	Soil	40	0.62	84	0.100	3	1.75	0.011	0.04	<0.1	0.02	4.8	<0.1	<0.05	7	<0.5	0.3
001752	Soil	36	0.59	86	0.107	3	2.35	0.012	0.04	0.1	0.04	5.2	<0.1	<0.05	7	<0.5	0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
001753	Soil		0.7	29.1	5.5	69	0.2	17.6	13.5	417	3.61	4.4	3.3	1.0	51	0.5	0.3	<0.1	115	0.59	0.048	8
001754	Soil		0.7	18.6	4.1	65	0.2	15.5	9.3	335	3.15	3.4	2.1	1.0	36	0.3	0.2	<0.1	98	0.41	0.049	7
001758	Soil		1.6	43.2	5.0	51	0.3	17.7	10.6	590	3.02	2.5	4.4	0.5	78	0.2	0.3	<0.1	96	1.35	0.080	11
001761	Soil		1.1	29.3	4.1	41	0.1	17.1	9.5	394	2.59	1.9	4.2	0.5	53	0.2	0.2	<0.1	84	0.78	0.047	8
001763	Soil		1.5	57.3	4.6	42	0.7	20.1	12.0	1285	2.56	3.3	3.7	0.4	92	0.6	0.3	<0.1	64	2.11	0.096	7
001769	Soil		0.6	22.3	4.9	56	0.1	18.6	12.7	369	3.51	4.9	5.2	1.2	37	0.4	0.3	<0.1	110	0.37	0.043	6
001771	Soil		0.8	16.1	5.2	48	<0.1	12.9	8.4	312	2.95	1.6	2.5	0.9	52	0.2	0.2	<0.1	95	0.75	0.029	6
001772	Soil		0.5	20.5	4.3	49	<0.1	15.1	10.4	321	3.02	3.3	2.8	1.4	37	0.1	0.3	<0.1	98	0.39	0.050	6
001776	Soil		0.5	11.8	3.9	34	<0.1	13.2	8.1	251	2.71	3.3	5.8	1.1	44	0.3	0.2	<0.1	88	0.59	0.030	5
001777	Soil		0.4	17.5	4.1	51	0.1	15.4	9.1	287	2.71	3.2	2.1	1.2	32	0.1	0.2	<0.1	86	0.30	0.065	6
001778	Soil		0.5	15.0	4.3	42	<0.1	14.8	9.1	305	3.05	3.2	3.4	1.3	29	0.2	0.3	<0.1	101	0.29	0.060	5
001779	Soil		1.9	41.0	4.7	63	0.3	19.3	13.2	1225	3.08	3.2	4.2	0.5	92	0.4	0.2	<0.1	96	1.65	0.083	10
001780	Soil		0.6	28.6	4.5	50	<0.1	17.0	12.1	539	3.05	3.3	3.3	1.0	62	0.2	0.2	<0.1	100	0.77	0.050	6
001781	Soil		0.8	17.0	4.9	48	0.1	17.9	10.3	374	3.51	4.7	1.3	1.4	30	0.2	0.3	<0.1	102	0.27	0.057	7
001782	Soil		1.2	53.7	6.5	71	0.3	24.6	15.1	551	4.53	6.5	3.6	1.7	35	0.2	0.3	0.1	133	0.39	0.081	9
001783	Soil		0.5	18.5	4.7	60	0.2	17.8	10.2	447	3.72	3.5	8.6	1.1	30	0.3	0.3	<0.1	107	0.31	0.072	6
001784	Soil		0.6	17.7	6.3	44	0.2	9.4	10.2	249	3.82	2.6	2.3	1.2	80	0.3	0.2	<0.1	120	0.86	0.072	7
001786	Soil		1.1	21.2	6.8	37	0.2	13.4	8.3	336	2.29	1.1	2.3	0.5	45	0.3	0.2	0.1	79	0.68	0.045	8
001787	Soil		0.8	20.6	5.2	61	0.3	19.1	11.5	368	3.63	5.0	4.0	1.6	29	0.1	0.2	<0.1	104	0.25	0.077	7
001788	Soil		1.0	16.8	5.3	58	0.4	14.6	9.8	558	3.53	5.8	0.6	1.1	26	0.3	0.3	0.1	101	0.24	0.085	7
001791	Soil		0.8	41.9	4.5	55	<0.1	22.6	12.8	531	3.35	4.9	6.5	2.0	69	0.3	0.4	<0.1	102	0.94	0.061	11
001792	Soil		0.7	26.2	5.3	74	<0.1	19.7	13.4	636	4.55	4.0	2.8	1.4	74	0.1	0.3	<0.1	156	1.05	0.059	9
001793	Soil		0.4	23.2	3.9	42	<0.1	15.7	10.9	600	2.54	2.9	1.5	1.0	61	0.2	0.4	<0.1	93	0.83	0.051	7
001794	Soil		0.8	36.9	4.2	58	0.4	15.9	9.5	482	2.52	4.1	2.3	0.5	83	0.3	0.3	<0.1	87	1.41	0.104	11
001795	Soil		0.9	13.1	7.3	87	0.2	10.4	10.9	453	4.18	3.4	2.1	1.8	37	0.2	0.2	0.1	146	0.37	0.140	7
001796	Soil		0.5	14.9	5.3	37	<0.1	13.6	8.9	301	3.26	4.2	3.2	1.5	34	0.2	0.3	<0.1	104	0.36	0.080	6
001797	Soil		0.3	22.1	4.8	56	<0.1	15.3	11.1	480	3.05	4.1	4.8	1.6	57	<0.1	0.4	<0.1	104	0.64	0.054	9
001798	Soil		0.4	24.7	5.0	48	<0.1	19.2	11.3	528	3.11	4.7	3.3	1.4	44	0.4	0.3	<0.1	100	0.54	0.052	7
001799	Soil		0.5	22.1	5.6	56	0.2	14.8	10.6	382	3.54	5.8	1.4	1.6	33	0.1	0.3	<0.1	113	0.33	0.066	7
001800	Soil		0.4	20.7	5.3	44	0.2	16.4	9.1	353	3.14	5.1	3.6	1.4	31	0.2	0.3	<0.1	94	0.28	0.075	7

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Project: None Given
 Report Date: October 03, 2013

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CERTIFICATE OF ANALYSIS

SMI13000304.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
001753	Soil	34	0.75	117	0.125	2	2.92	0.015	0.05	<0.1	0.04	8.4	<0.1	<0.05	8	<0.5	<0.2
001754	Soil	38	0.64	85	0.109	1	2.56	0.013	0.04	0.1	0.06	6.0	<0.1	<0.05	6	<0.5	<0.2
001758	Soil	39	0.75	191	0.064	4	2.45	0.015	0.05	<0.1	0.08	8.2	<0.1	0.06	7	<0.5	<0.2
001761	Soil	33	0.69	138	0.062	2	1.98	0.012	0.05	<0.1	0.04	6.7	<0.1	<0.05	7	<0.5	0.2
001763	Soil	29	0.66	285	0.012	2	2.54	0.011	0.06	<0.1	0.12	6.8	0.1	0.09	6	1.0	<0.2
001769	Soil	44	0.71	110	0.127	1	3.07	0.012	0.04	<0.1	0.06	6.8	<0.1	<0.05	8	<0.5	<0.2
001771	Soil	34	0.63	107	0.122	1	1.74	0.013	0.05	0.1	0.04	5.0	<0.1	<0.05	7	<0.5	<0.2
001772	Soil	41	0.62	82	0.120	2	2.40	0.010	0.04	0.1	0.03	6.2	<0.1	<0.05	6	<0.5	0.3
001776	Soil	34	0.52	56	0.111	3	1.81	0.010	0.03	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	0.2
001777	Soil	36	0.57	73	0.106	3	2.07	0.010	0.04	<0.1	0.03	5.3	<0.1	<0.05	5	<0.5	0.2
001778	Soil	43	0.57	67	0.112	2	1.94	0.008	0.03	0.1	0.03	4.9	<0.1	<0.05	6	<0.5	<0.2
001779	Soil	38	0.80	202	0.065	2	2.59	0.018	0.05	<0.1	0.09	8.7	<0.1	0.06	7	<0.5	<0.2
001780	Soil	35	0.73	163	0.113	3	2.21	0.011	0.05	0.1	0.03	7.5	<0.1	<0.05	7	<0.5	<0.2
001781	Soil	46	0.72	90	0.104	2	2.54	0.011	0.03	0.1	0.02	6.3	<0.1	<0.05	8	<0.5	<0.2
001782	Soil	50	0.86	259	0.063	2	3.99	0.013	0.05	0.2	0.05	10.7	0.1	<0.05	10	0.6	<0.2
001783	Soil	44	0.75	85	0.118	2	1.82	0.011	0.04	<0.1	0.02	5.5	<0.1	<0.05	9	<0.5	<0.2
001784	Soil	28	0.56	80	0.185	3	3.54	0.016	0.05	0.1	0.05	9.9	<0.1	<0.05	12	<0.5	<0.2
001786	Soil	33	0.66	112	0.054	3	1.76	0.011	0.04	<0.1	0.03	5.1	0.1	<0.05	8	<0.5	<0.2
001787	Soil	46	0.70	89	0.094	<1	2.75	0.009	0.04	0.1	0.07	6.3	<0.1	<0.05	7	<0.5	<0.2
001788	Soil	35	0.54	98	0.059	2	2.20	0.009	0.04	0.1	0.05	5.3	0.1	<0.05	8	<0.5	<0.2
001791	Soil	52	0.72	119	0.137	2	1.92	0.018	0.06	<0.1	0.03	9.5	<0.1	<0.05	5	<0.5	<0.2
001792	Soil	65	0.75	106	0.154	2	1.74	0.017	0.05	0.1	0.02	8.3	<0.1	<0.05	6	<0.5	<0.2
001793	Soil	35	0.66	87	0.121	3	1.42	0.017	0.04	0.1	0.04	6.9	<0.1	<0.05	4	<0.5	<0.2
001794	Soil	33	0.66	139	0.053	4	2.22	0.016	0.05	<0.1	0.09	8.7	<0.1	0.07	5	<0.5	<0.2
001795	Soil	39	0.46	73	0.171	2	3.38	0.010	0.04	0.2	0.07	6.7	<0.1	<0.05	11	<0.5	<0.2
001796	Soil	40	0.53	61	0.135	2	2.19	0.009	0.03	0.1	0.06	5.6	<0.1	<0.05	7	<0.5	<0.2
001797	Soil	39	0.65	86	0.142	2	2.11	0.012	0.05	<0.1	0.03	7.7	<0.1	<0.05	6	<0.5	<0.2
001798	Soil	44	0.63	85	0.117	3	1.91	0.010	0.04	0.1	0.03	5.8	<0.1	<0.05	5	<0.5	<0.2
001799	Soil	41	0.64	83	0.121	2	2.49	0.009	0.03	0.1	0.04	7.0	<0.1	<0.05	7	<0.5	<0.2
001800	Soil	39	0.57	88	0.086	2	2.34	0.009	0.03	0.1	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2

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Project: None Given
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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
001801	Soil		0.8	15.6	4.9	50	0.1	16.7	8.9	363	3.46	5.4	0.6	1.5	28	0.2	0.3	<0.1	104	0.31	0.062	6
001802	Soil		0.5	20.5	4.1	58	<0.1	17.4	9.4	357	2.77	3.6	3.2	1.4	44	0.2	0.3	<0.1	91	0.60	0.046	7
001803	Soil		0.3	26.2	4.9	46	0.1	20.5	11.8	426	3.12	6.0	23.5	1.8	39	0.2	0.3	<0.1	91	0.37	0.052	9
001804	Soil		0.4	30.8	5.1	49	<0.1	19.0	11.2	533	2.92	6.3	4.0	1.9	49	0.1	0.4	<0.1	90	0.57	0.053	11
001805	Soil		0.6	23.4	4.5	50	0.3	22.0	11.4	346	3.06	5.9	1.3	1.7	34	0.2	0.4	<0.1	88	0.35	0.065	8
001806	Soil		0.5	33.0	4.4	43	<0.1	19.3	10.7	465	2.99	5.3	2.3	1.6	42	0.2	0.3	<0.1	90	0.50	0.054	7
001807	Soil		0.3	25.1	5.2	50	<0.1	18.6	10.3	418	2.87	5.0	4.4	1.5	39	<0.1	0.3	<0.1	89	0.41	0.061	9
001808	Soil		0.5	16.7	4.8	46	0.2	15.3	9.2	288	2.89	3.9	3.7	1.3	30	0.4	0.3	<0.1	91	0.29	0.055	6
001809	Soil		0.5	12.9	5.7	48	0.2	14.1	7.9	269	2.93	3.8	8.2	1.4	24	0.3	0.3	<0.1	89	0.22	0.063	7
001810	Soil		0.7	21.3	5.1	44	<0.1	17.7	9.2	291	2.59	3.5	1.8	1.4	38	0.2	0.3	<0.1	78	0.41	0.040	8
001811	Soil		0.3	33.3	4.2	38	<0.1	16.0	9.0	395	2.50	3.8	3.8	1.3	50	<0.1	0.3	<0.1	80	0.62	0.044	10
001812	Soil		0.6	16.6	4.9	38	0.2	16.7	9.6	285	2.92	3.7	1.5	1.5	30	0.2	0.3	<0.1	90	0.28	0.032	7
001813	Soil		0.8	12.9	5.9	40	0.2	10.5	6.0	286	2.95	3.0	2.6	0.5	30	0.2	0.2	<0.1	98	0.27	0.051	6
001814	Soil		0.7	17.5	5.1	47	0.3	17.5	9.1	363	3.38	5.1	2.3	1.2	32	0.3	0.3	<0.1	98	0.32	0.054	7
001815	Soil		0.5	18.1	4.2	45	<0.1	17.8	9.0	340	2.64	3.8	3.5	0.9	35	0.2	0.2	<0.1	79	0.38	0.035	7
001817	Soil		0.7	46.4	4.9	41	0.5	16.0	8.0	310	2.30	3.3	4.4	0.5	62	0.2	0.3	<0.1	65	1.02	0.116	13
001818	Soil		1.5	64.4	4.2	48	0.5	14.0	9.9	694	1.98	3.7	1.4	0.3	100	0.9	0.5	<0.1	53	2.10	0.173	16
001819	Soil		1.1	56.9	5.2	61	0.4	17.9	10.5	522	2.69	2.9	1.5	0.5	92	0.4	0.3	<0.1	82	1.74	0.098	12
001820	Soil		1.1	60.1	3.2	31	0.5	12.3	7.1	424	1.46	2.1	2.5	0.2	93	0.6	0.5	<0.1	38	2.64	0.088	15
001823	Soil		0.7	25.5	5.2	52	<0.1	18.1	11.6	347	3.21	3.5	1.3	0.7	39	0.2	0.2	<0.1	100	0.63	0.031	8
001825	Soil		0.9	21.6	5.7	58	<0.1	12.9	8.2	348	2.69	2.3	7.5	0.8	44	0.4	0.2	<0.1	93	0.68	0.035	8
001827	Soil		0.6	28.3	5.9	39	0.2	11.9	7.6	293	2.81	3.0	9.8	0.5	62	0.3	0.3	<0.1	102	1.26	0.041	7
001828	Soil		0.9	59.2	5.4	55	0.1	14.7	10.5	660	2.86	2.6	2.3	0.4	69	0.3	0.3	<0.1	90	1.30	0.077	12
001829	Soil		0.9	15.7	7.4	42	<0.1	13.3	8.1	266	2.96	3.0	3.5	0.6	28	0.1	0.2	<0.1	126	0.31	0.028	5
001830	Soil		0.5	31.7	5.2	45	<0.1	17.4	10.4	432	2.90	3.4	1.6	1.2	69	0.2	0.2	<0.1	95	1.22	0.037	8
001839	Soil		1.2	54.9	5.6	106	0.4	25.6	14.6	1155	3.19	3.9	2.8	0.5	68	0.8	0.3	<0.1	86	1.44	0.098	13
001840	Soil		0.6	21.8	6.1	58	<0.1	20.3	9.8	334	3.71	4.9	8.2	0.7	23	0.2	0.2	<0.1	105	0.28	0.057	6
001841	Soil		0.5	26.2	5.3	48	<0.1	17.2	10.0	315	3.31	4.0	7.3	0.9	30	0.3	0.2	<0.1	98	0.41	0.043	6
001843	Soil		0.8	26.9	6.4	43	0.2	16.1	9.1	247	2.88	3.0	2.1	0.5	33	0.2	0.2	<0.1	88	0.51	0.040	7
001846	Soil		0.9	16.9	6.1	64	0.4	14.3	8.4	295	3.87	4.4	1.7	0.5	23	0.3	0.3	<0.1	123	0.25	0.045	5

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
001801	Soil	45	0.57	68	0.103	2	2.23	0.009	0.03	0.1	0.03	5.0	<0.1	<0.05	7	<0.5	<0.2
001802	Soil	39	0.66	74	0.111	2	1.82	0.012	0.04	<0.1	0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
001803	Soil	42	0.70	96	0.104	3	2.32	0.009	0.04	<0.1	0.03	6.7	<0.1	<0.05	6	<0.5	<0.2
001804	Soil	40	0.70	109	0.116	1	1.95	0.011	0.05	<0.1	0.02	6.9	<0.1	<0.05	6	<0.5	<0.2
001805	Soil	42	0.68	101	0.096	2	2.49	0.010	0.04	0.1	0.05	5.8	<0.1	<0.05	6	<0.5	<0.2
001806	Soil	40	0.66	97	0.110	2	2.06	0.010	0.04	<0.1	0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
001807	Soil	38	0.62	113	0.098	2	2.06	0.010	0.05	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
001808	Soil	37	0.56	84	0.095	1	2.07	0.009	0.03	<0.1	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2
001809	Soil	36	0.51	66	0.088	2	1.97	0.010	0.04	0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
001810	Soil	33	0.60	95	0.088	2	1.97	0.010	0.04	<0.1	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
001811	Soil	37	0.64	107	0.097	1	1.60	0.015	0.03	<0.1	0.06	7.7	<0.1	<0.05	5	<0.5	<0.2
001812	Soil	37	0.58	85	0.107	1	2.13	0.009	0.04	<0.1	0.04	5.1	<0.1	<0.05	6	<0.5	<0.2
001813	Soil	32	0.39	96	0.086	2	1.27	0.008	0.04	<0.1	0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
001814	Soil	38	0.62	77	0.094	1	1.73	0.008	0.04	0.1	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
001815	Soil	34	0.62	90	0.081	1	1.54	0.009	0.04	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
001817	Soil	36	0.61	162	0.030	1	2.06	0.010	0.05	<0.1	0.13	7.5	0.1	<0.05	6	<0.5	<0.2
001818	Soil	29	0.45	211	0.015	2	1.84	0.008	0.05	<0.1	0.15	6.2	0.1	0.11	4	<0.5	<0.2
001819	Soil	35	0.73	200	0.052	2	2.27	0.012	0.06	<0.1	0.12	9.0	<0.1	<0.05	6	<0.5	<0.2
001820	Soil	22	0.41	160	0.023	3	1.49	0.011	0.04	<0.1	0.15	3.9	<0.1	0.12	3	0.6	<0.2
001823	Soil	35	0.69	134	0.092	2	2.38	0.012	0.05	<0.1	0.02	6.1	<0.1	<0.05	8	<0.5	<0.2
001825	Soil	32	0.54	112	0.078	3	1.74	0.011	0.04	0.1	0.02	5.4	<0.1	<0.05	7	<0.5	<0.2
001827	Soil	31	0.45	132	0.085	3	1.64	0.012	0.03	0.1	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
001828	Soil	28	0.54	105	0.076	2	2.10	0.013	0.04	<0.1	0.05	6.6	<0.1	<0.05	6	<0.5	<0.2
001829	Soil	35	0.50	75	0.123	2	1.57	0.010	0.04	<0.1	0.02	4.4	<0.1	<0.05	9	<0.5	<0.2
001830	Soil	34	0.69	118	0.122	3	2.07	0.016	0.05	<0.1	0.03	7.5	<0.1	<0.05	6	<0.5	<0.2
001839	Soil	39	0.77	329	0.041	3	3.04	0.013	0.09	<0.1	0.10	9.4	0.1	<0.05	7	<0.5	<0.2
001840	Soil	45	0.55	103	0.075	3	2.56	0.009	0.04	<0.1	0.03	4.8	<0.1	<0.05	7	<0.5	<0.2
001841	Soil	38	0.57	116	0.097	3	2.09	0.011	0.03	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
001843	Soil	34	0.51	119	0.060	2	2.10	0.011	0.03	<0.1	0.03	4.7	<0.1	<0.05	7	<0.5	<0.2
001846	Soil	38	0.51	101	0.099	3	1.86	0.009	0.04	0.1	0.04	3.8	<0.1	<0.05	8	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

SMI13000304.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
001847	Soil	5.4	31.7	8.5	79	0.3	14.6	14.0	1378	3.29	3.0	1.3	0.2	46	0.6	0.2	0.1	108	0.73	0.125	8
001848	Soil	1.3	20.5	6.1	52	<0.1	17.0	8.8	285	3.87	4.3	1.2	1.0	21	0.2	0.3	<0.1	113	0.27	0.044	6
001849	Soil	2.2	49.0	7.1	62	0.1	19.1	11.6	380	3.52	3.4	2.1	0.5	33	0.3	0.2	<0.1	107	0.55	0.041	8
001850	Soil	0.5	26.1	5.4	39	<0.1	17.3	9.0	272	3.00	3.7	1.6	1.3	29	0.1	0.3	<0.1	103	0.40	0.037	6
001851	Soil	1.0	17.6	6.2	44	0.1	11.2	6.6	206	3.51	3.7	1.6	0.8	20	0.4	0.3	<0.1	114	0.21	0.031	5
001852	Soil	4.8	74.0	10.7	66	0.4	14.8	11.2	769	3.13	4.3	8.1	0.5	66	0.7	0.3	<0.1	87	1.23	0.082	16
001853	Soil	2.0	64.1	46.3	50	0.1	8.4	8.0	613	2.55	1.7	2.6	1.2	73	0.4	0.2	<0.1	58	1.06	0.087	9
001854	Soil	3.2	61.7	7.4	90	0.1	18.2	11.5	628	3.49	3.5	4.4	0.5	51	0.8	0.3	<0.1	94	0.85	0.075	10
001855	Soil	3.7	262.8	7.1	50	0.3	19.8	13.7	697	3.38	4.5	8.2	1.3	56	0.5	0.4	<0.1	96	1.19	0.049	16
001856	Soil	4.9	57.3	5.7	52	0.1	18.8	12.9	507	3.46	3.3	3.3	0.6	43	0.2	0.2	<0.1	108	0.89	0.044	7
001857	Soil	7.4	81.6	12.5	83	<0.1	21.3	13.7	706	3.99	4.4	1.7	0.5	47	0.6	0.2	0.2	110	0.87	0.088	11
001858	Soil	4.0	36.0	5.9	51	0.1	17.0	11.1	402	4.04	4.8	4.3	0.3	41	0.5	0.3	<0.1	113	0.90	0.063	5
001859	Soil	1.3	38.8	4.9	46	<0.1	17.0	12.3	395	3.41	3.9	3.9	0.7	41	0.3	0.3	<0.1	114	0.80	0.043	5
001860	Soil	2.3	23.2	6.5	60	<0.1	14.1	8.7	369	3.72	3.3	1.9	0.3	25	0.4	0.3	<0.1	118	0.32	0.049	5
001861	Soil	4.5	24.7	6.5	73	<0.1	18.2	11.5	490	3.88	4.2	1.9	0.3	28	0.3	0.3	<0.1	123	0.36	0.035	5
001862	Soil	6.1	25.1	5.6	62	0.2	14.9	9.5	698	2.73	2.6	0.6	0.3	45	0.3	0.1	<0.1	95	0.90	0.067	6
001863	Soil	0.9	33.2	6.5	55	0.2	15.6	9.5	472	3.37	3.8	3.8	0.3	26	0.2	0.3	<0.1	103	0.39	0.065	7
001864	Soil	2.2	51.6	6.2	54	0.1	17.4	11.1	517	3.11	3.8	1.5	0.7	45	0.2	0.3	<0.1	101	0.82	0.054	8
001865	Soil	3.6	78.2	10.8	81	0.2	20.7	13.2	641	3.15	3.2	2.5	0.8	49	0.6	0.3	<0.1	92	1.04	0.056	9
001866	Soil	2.3	118.5	9.1	96	0.5	18.3	11.3	603	2.92	4.4	2.6	0.4	60	0.5	0.3	<0.1	85	1.83	0.083	11
001867	Soil	1.1	21.8	5.8	64	<0.1	18.7	10.2	303	4.11	5.6	2.6	1.2	24	0.3	0.3	<0.1	115	0.32	0.041	6



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Project: None Given
 Report Date: October 03, 2013

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CERTIFICATE OF ANALYSIS

SMI13000304.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.01	0.1	0.1	0.05	1	0.5
001847	Soil	34	0.58	209	0.031	2	2.28	0.011	0.06	<0.1	0.02	3.4	<0.1	<0.05	8	<0.5	<0.2
001848	Soil	42	0.53	102	0.097	2	2.08	0.009	0.03	<0.1	0.02	4.5	<0.1	<0.05	7	<0.5	<0.2
001849	Soil	39	0.65	220	0.047	2	2.48	0.011	0.05	<0.1	0.02	5.3	<0.1	<0.05	8	<0.5	<0.2
001850	Soil	39	0.53	77	0.103	3	1.79	0.009	0.04	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
001851	Soil	35	0.42	85	0.110	2	2.00	0.009	0.03	0.1	0.03	4.3	<0.1	<0.05	8	<0.5	<0.2
001852	Soil	32	0.66	233	0.052	3	2.54	0.014	0.07	<0.1	0.03	6.0	<0.1	<0.05	7	<0.5	<0.2
001853	Soil	16	0.63	471	0.020	2	2.55	0.010	0.10	0.1	0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
001854	Soil	36	0.77	260	0.068	3	2.59	0.011	0.08	<0.1	0.03	5.6	<0.1	<0.05	8	<0.5	<0.2
001855	Soil	42	0.84	405	0.099	2	2.38	0.016	0.08	0.1	0.03	8.5	<0.1	<0.05	7	<0.5	<0.2
001856	Soil	40	0.85	244	0.092	3	2.62	0.014	0.06	0.1	0.02	6.1	<0.1	<0.05	8	<0.5	<0.2
001857	Soil	40	0.83	276	0.066	2	2.82	0.014	0.07	0.1	0.03	5.9	<0.1	<0.05	9	<0.5	<0.2
001858	Soil	43	0.60	102	0.094	3	2.19	0.010	0.05	<0.1	0.04	4.6	<0.1	<0.05	7	<0.5	<0.2
001859	Soil	45	0.59	105	0.111	3	1.97	0.010	0.04	<0.1	0.03	5.2	<0.1	<0.05	5	<0.5	<0.2
001860	Soil	38	0.54	89	0.094	2	2.27	0.010	0.04	<0.1	0.03	4.0	<0.1	<0.05	8	<0.5	<0.2
001861	Soil	39	0.70	108	0.097	3	1.93	0.010	0.06	<0.1	0.02	4.4	<0.1	<0.05	8	<0.5	<0.2
001862	Soil	34	0.63	169	0.067	2	1.96	0.011	0.06	<0.1	0.03	4.6	<0.1	<0.05	7	<0.5	<0.2
001863	Soil	39	0.52	130	0.073	3	2.06	0.010	0.05	<0.1	0.03	4.6	<0.1	<0.05	7	<0.5	<0.2
001864	Soil	41	0.65	207	0.087	2	2.03	0.011	0.05	0.1	0.03	6.2	<0.1	<0.05	6	<0.5	<0.2
001865	Soil	40	0.76	308	0.064	2	2.59	0.012	0.08	0.1	0.03	7.3	<0.1	<0.05	7	<0.5	<0.2
001866	Soil	38	0.68	312	0.049	3	2.30	0.013	0.07	<0.1	0.07	6.7	<0.1	<0.05	6	0.7	<0.2
001867	Soil	48	0.60	91	0.104	2	2.84	0.009	0.04	0.1	0.03	5.4	<0.1	<0.05	7	<0.5	<0.2



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Project: None Given
 Report Date: October 03, 2013

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QUALITY CONTROL REPORT

SMI13000304.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
001653	Soil	1.0	46.0	5.5	57	<0.1	17.6	14.2	631	3.33	4.5	3.4	0.9	65	0.2	0.3	<0.1	103	0.97	0.064	7
REP 001653	QC	0.8	44.1	5.3	56	<0.1	17.5	14.5	633	3.34	4.0	2.1	1.0	61	0.3	0.3	<0.1	101	0.98	0.062	7
001688	Soil	0.4	17.0	4.4	47	<0.1	15.8	7.8	334	2.82	3.8	4.7	0.7	39	0.1	0.2	<0.1	82	0.42	0.075	7
REP 001688	QC	0.5	16.2	4.2	50	<0.1	14.9	7.6	318	2.81	3.5	1.0	0.7	38	0.2	0.2	<0.1	83	0.41	0.073	6
001727	Soil	1.2	21.8	7.3	78	<0.1	9.3	8.1	449	3.53	2.6	3.6	0.2	40	0.4	0.4	0.2	123	0.85	0.066	9
REP 001727	QC	1.1	22.1	7.4	78	<0.1	10.2	8.2	457	3.58	2.7	6.0	0.2	40	0.3	0.4	0.2	124	0.81	0.063	9
001748	Soil	1.3	21.8	6.4	41	0.2	12.8	7.8	311	2.58	2.4	2.5	0.4	38	0.3	0.2	<0.1	88	0.45	0.032	9
REP 001748	QC	1.5	22.5	6.5	42	0.2	14.0	8.1	309	2.62	1.4	2.6	0.4	39	0.3	0.2	<0.1	94	0.45	0.035	9
001781	Soil	0.8	17.0	4.9	48	0.1	17.9	10.3	374	3.51	4.7	1.3	1.4	30	0.2	0.3	<0.1	102	0.27	0.057	7
REP 001781	QC	0.9	17.6	5.0	47	0.1	18.1	10.5	372	3.53	4.2	1.4	1.5	30	0.2	0.3	<0.1	104	0.27	0.057	7
001802	Soil	0.5	20.5	4.1	58	<0.1	17.4	9.4	357	2.77	3.6	3.2	1.4	44	0.2	0.3	<0.1	91	0.60	0.046	7
REP 001802	QC	0.4	21.0	4.2	61	<0.1	19.0	9.4	371	2.80	4.7	7.3	1.4	47	0.2	0.3	<0.1	90	0.61	0.048	7
001823	Soil	0.7	25.5	5.2	52	<0.1	18.1	11.6	347	3.21	3.5	1.3	0.7	39	0.2	0.2	<0.1	100	0.63	0.031	8
REP 001823	QC	0.7	26.3	5.6	53	<0.1	17.7	11.4	358	3.29	3.7	2.7	0.7	40	0.2	0.2	<0.1	103	0.62	0.031	8
001854	Soil	3.2	61.7	7.4	90	0.1	18.2	11.5	628	3.49	3.5	4.4	0.5	51	0.8	0.3	<0.1	94	0.85	0.075	10
REP 001854	QC	3.3	59.4	7.9	92	0.1	19.1	12.0	650	3.45	2.9	0.9	0.5	52	1.0	0.2	<0.1	100	0.90	0.076	10
Reference Materials																					
STD DS9	Standard	13.0	105.2	126.1	306	1.8	38.9	7.3	567	2.26	25.1	125.2	6.5	80	2.2	5.9	6.8	43	0.69	0.084	14
STD DS9	Standard	13.4	102.4	136.7	301	1.9	39.2	7.4	591	2.33	25.6	116.5	6.5	78	2.2	6.0	7.3	42	0.73	0.084	14
STD DS9	Standard	13.1	105.0	125.5	299	1.8	37.9	7.3	585	2.30	24.7	116.0	6.8	70	2.3	5.1	6.0	41	0.75	0.084	13
STD DS9	Standard	12.1	99.8	123.3	301	1.8	37.8	6.6	546	2.29	24.9	110.3	5.9	65	2.3	5.8	6.1	38	0.69	0.085	12
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: None Given
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QUALITY CONTROL REPORT

SMI13000304.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
001653	Soil	43	0.81	109	0.131	2	1.79	0.019	0.04	0.1	0.01	7.1	<0.1	<0.05	5	<0.5	<0.2
REP 001653	QC	42	0.86	106	0.133	2	1.88	0.020	0.04	0.1	0.02	7.0	<0.1	<0.05	6	<0.5	<0.2
001688	Soil	37	0.52	104	0.086	1	1.83	0.010	0.03	<0.1	0.03	4.8	<0.1	<0.05	6	<0.5	<0.2
REP 001688	QC	35	0.51	100	0.081	1	1.72	0.010	0.03	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
001727	Soil	34	0.48	176	0.051	3	1.96	0.015	0.04	<0.1	0.03	3.7	<0.1	<0.05	10	<0.5	0.3
REP 001727	QC	35	0.47	169	0.053	2	1.98	0.017	0.04	0.1	0.03	3.6	<0.1	<0.05	10	<0.5	<0.2
001748	Soil	34	0.59	115	0.069	2	1.82	0.011	0.04	<0.1	0.03	4.4	<0.1	<0.05	8	<0.5	<0.2
REP 001748	QC	34	0.60	115	0.071	2	1.93	0.012	0.04	0.1	0.01	4.3	<0.1	<0.05	9	<0.5	<0.2
001781	Soil	46	0.72	90	0.104	2	2.54	0.011	0.03	0.1	0.02	6.3	<0.1	<0.05	8	<0.5	<0.2
REP 001781	QC	45	0.72	90	0.108	2	2.71	0.011	0.03	0.1	0.03	6.2	<0.1	<0.05	8	<0.5	<0.2
001802	Soil	39	0.66	74	0.111	2	1.82	0.012	0.04	<0.1	0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
REP 001802	QC	39	0.68	77	0.112	2	1.89	0.012	0.04	0.1	<0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
001823	Soil	35	0.69	134	0.092	2	2.38	0.012	0.05	<0.1	0.02	6.1	<0.1	<0.05	8	<0.5	<0.2
REP 001823	QC	35	0.70	132	0.098	4	2.45	0.014	0.05	<0.1	0.02	6.5	<0.1	<0.05	8	<0.5	<0.2
001854	Soil	36	0.77	260	0.068	3	2.59	0.011	0.08	<0.1	0.03	5.6	<0.1	<0.05	8	<0.5	<0.2
REP 001854	QC	39	0.83	252	0.072	3	2.63	0.012	0.08	0.1	0.03	5.5	<0.1	<0.05	8	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	112	0.68	300	0.111	3	0.97	0.088	0.38	3.0	0.20	2.5	5.2	0.16	5	5.0	4.8
STD DS9	Standard	118	0.68	304	0.113	4	0.97	0.087	0.40	3.1	0.19	2.5	5.4	0.19	4	5.1	5.3
STD DS9	Standard	116	0.59	302	0.109	3	0.88	0.092	0.41	2.9	0.21	2.4	5.4	0.10	4	5.1	4.7
STD DS9	Standard	107	0.61	295	0.116	3	0.95	0.082	0.38	2.7	0.21	2.3	4.9	0.10	4	5.4	4.8
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

APPENDIX II: LAB METHODOLOGIES



Geochemical Aqua Regia Digestion

Groups 1D, 1DX ICP-ES & ICP-MS

You can choose economically priced ICP-ES (Group 1D) or ICP-MS (Group 1DX) analysis to complement your exploration program.

Sample splits of 0.5g are leached in hot (95°C) Aqua Regia. Select a larger split size for more representative Au analysis. Refractory and graphitic samples can limit Au solubility.

Sample minimum 1g pulp.

Group 1D01	Cdn
34 elements	\$9.40

Group 1D03	Cdn
Include Uranium	+\$0.50

Code	Group 1DX	Cdn
1DX1	36 elements 0.5g	\$15.75
1DX2	36 elements 15g	\$19.95
1DX3	36 elements 30g	\$23.60

Include U by request

	Group 1D Detection	Group 1DX Detection	Upper Limit
Ag*	0.3 ppm	0.1 ppm	100 ppm
Al*	0.01 %	0.01 %	10 %
As	2 ppm	0.5 ppm	10000 ppm
Au*	2 ppm	0.5 ppb	100 ppm
B*	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	2000 ppm
Ca*	0.01 %	0.01 %	40 %
Cd	0.5 ppm	0.1 ppm	2000 ppm
Co	1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	10000 ppm
Fe*	0.01 %	0.01 %	40 %
Ga*	5 ppm	1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	50 ppm
K*	0.01 %	0.01 %	10 %
La*	1 ppm	1 ppm	10000 ppm
Mg*	0.01 %	0.01 %	30 %
Mn*	2 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	2000 ppm
Na*	0.01 %	0.001 %	5 %
Ni	1 ppm	0.1 ppm	10000 ppm
P*	0.001 %	0.001 %	5 %
Pb	3 ppm	0.1 ppm	10000 ppm
S*	0.05 %	0.05 %	10 %
Sb*	3 ppm	0.1 ppm	2000 ppm
Sc	5 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	100 ppm
Sr*	1 ppm	1 ppm	10000 ppm
Te	-	0.2 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	2000 ppm
Ti*	0.001 %	0.001 %	5 %
Tl	5 ppm	0.1 ppm	1000 ppm
V*	1 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	100 ppm
Zn	1 ppm	1 ppm	10000 ppm

*Solubility of some elements will be limited by mineral species present.

†Detection limit = 1 ppm for 15g / 30g analysis.

METHOD SPECIFICATIONS

GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes:	1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07
Sample Digestion:	HNO ₃ -HCl acid digestion
Instrumentation Method:	ICP-ES (1D), ICP-MS (1DX, 1F)
Applicability:	Sediment, Soil, Non-mineralized Rock and Drill Core

Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO₃ and DI H₂O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb ₂₀₄	-	-	0.01 ppm	10000 ppm
Pb ₂₀₆	-	-	0.01 ppm	10000 ppm
Pb ₂₀₇	-	-	0.01 ppm	10000 ppm
Pb ₂₀₈	-	-	0.01 ppm	10000 ppm

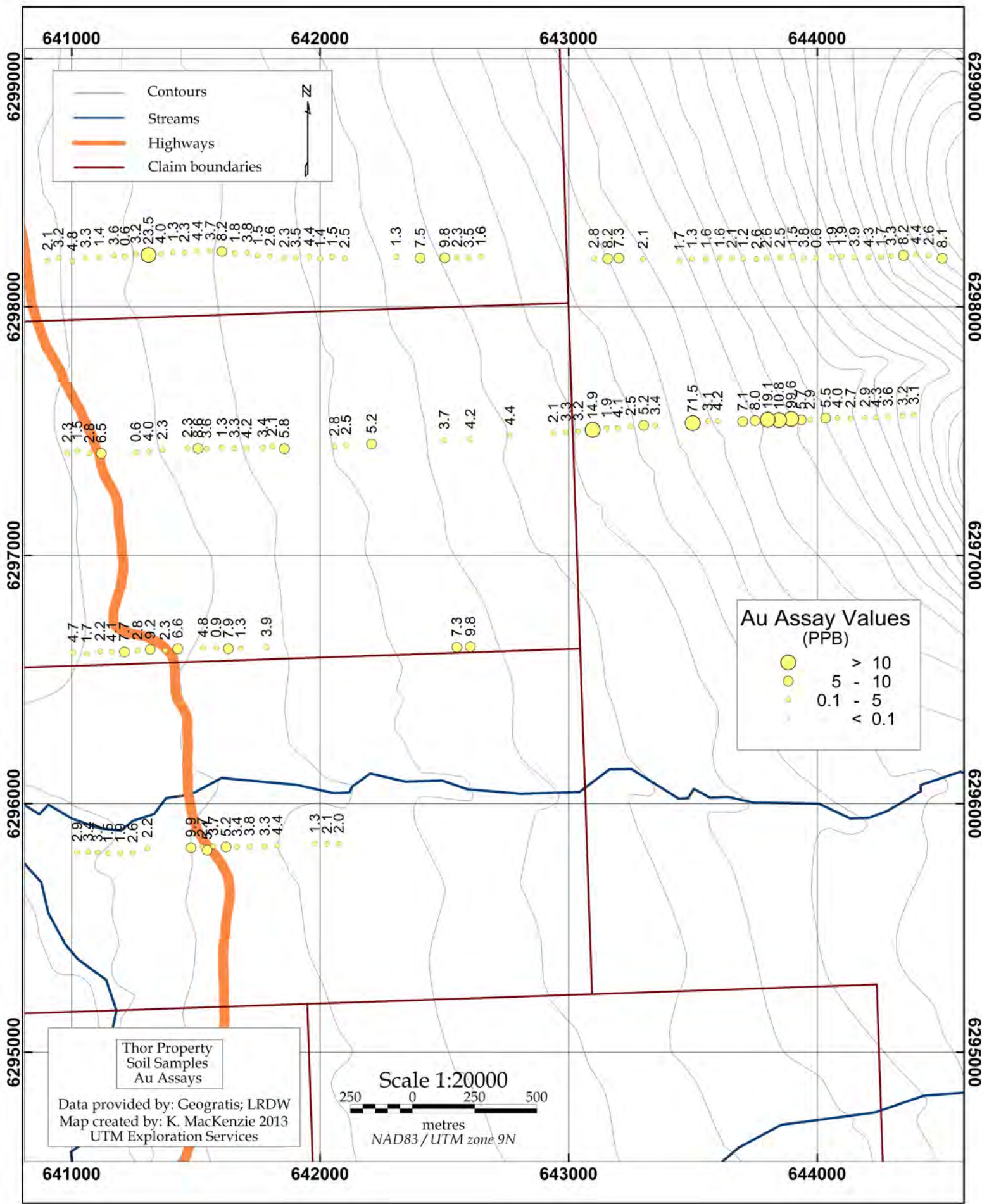
* Solubility of some elements will be limited by mineral species present.

^Detection limit = 1 ppm for 15g / 30g analysis.

Limitations:

Au solubility can be limited by refractory and graphitic samples.

APPENDIX III: POINT DATA SOIL MAPS

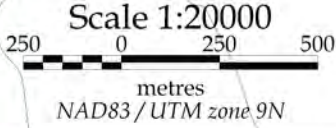


- Contours
- Streams
- Highways
- Claim boundaries

- Au Assay Values (PPB)**
- > 10
 - 5 - 10
 - 0.1 - 5
 - 0.1

Thor Property
Soil Samples
Au Assays

Data provided by: Geogratix; LRDW
Map created by: K. MacKenzie 2013
UTM Exploration Services



641000 642000 643000 644000

62999000 62980000 62970000 62960000 62950000

62999000 62980000 62970000 62960000 62950000

641000 642000 643000 644000

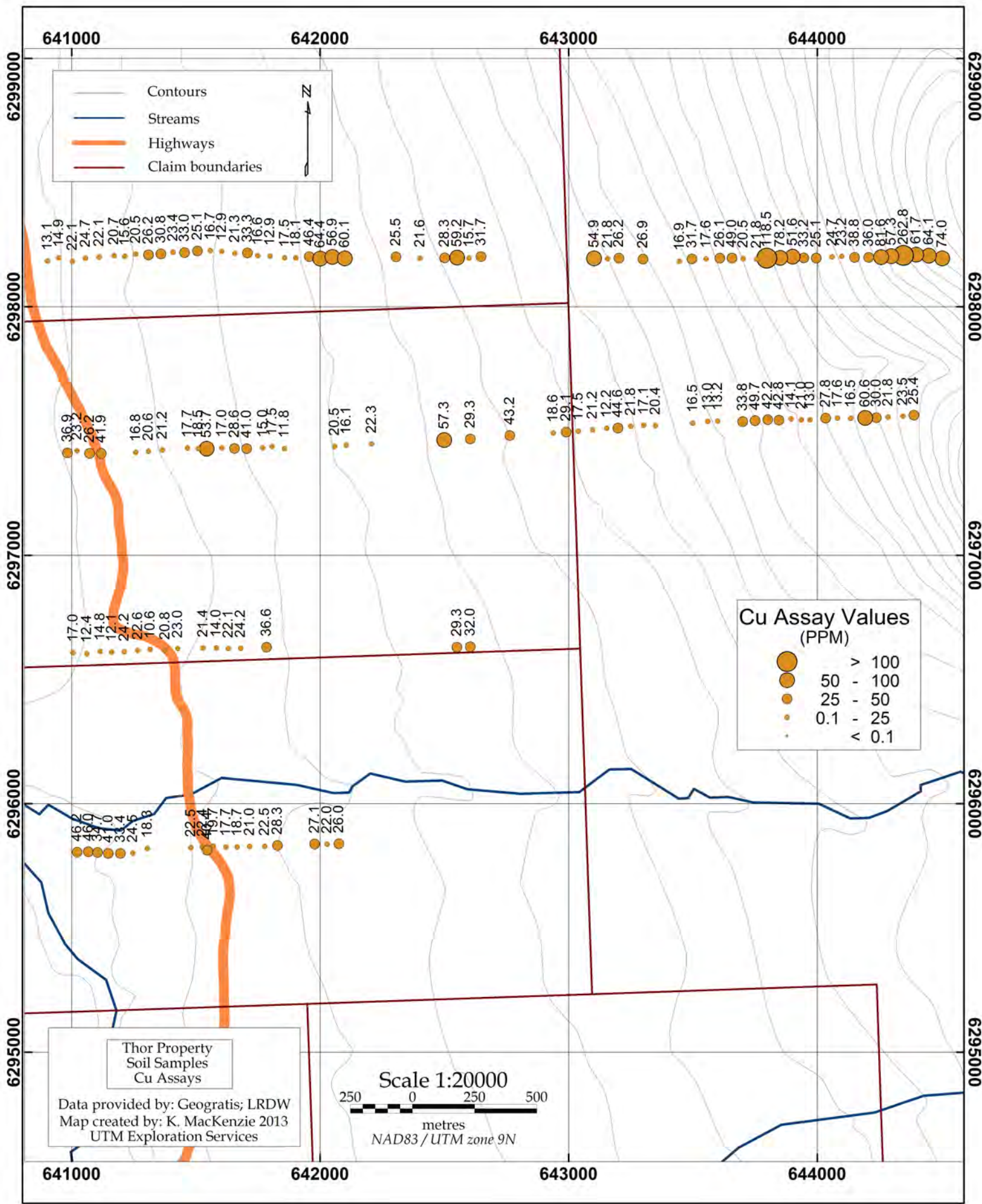
2.1 3.2 3.3 3.3 1.4 3.6 0.6 2.5 4.0 1.3 2.3 4.1 3.7 1.8 3.8 2.6 2.3 3.5 4.4 1.4 1.5

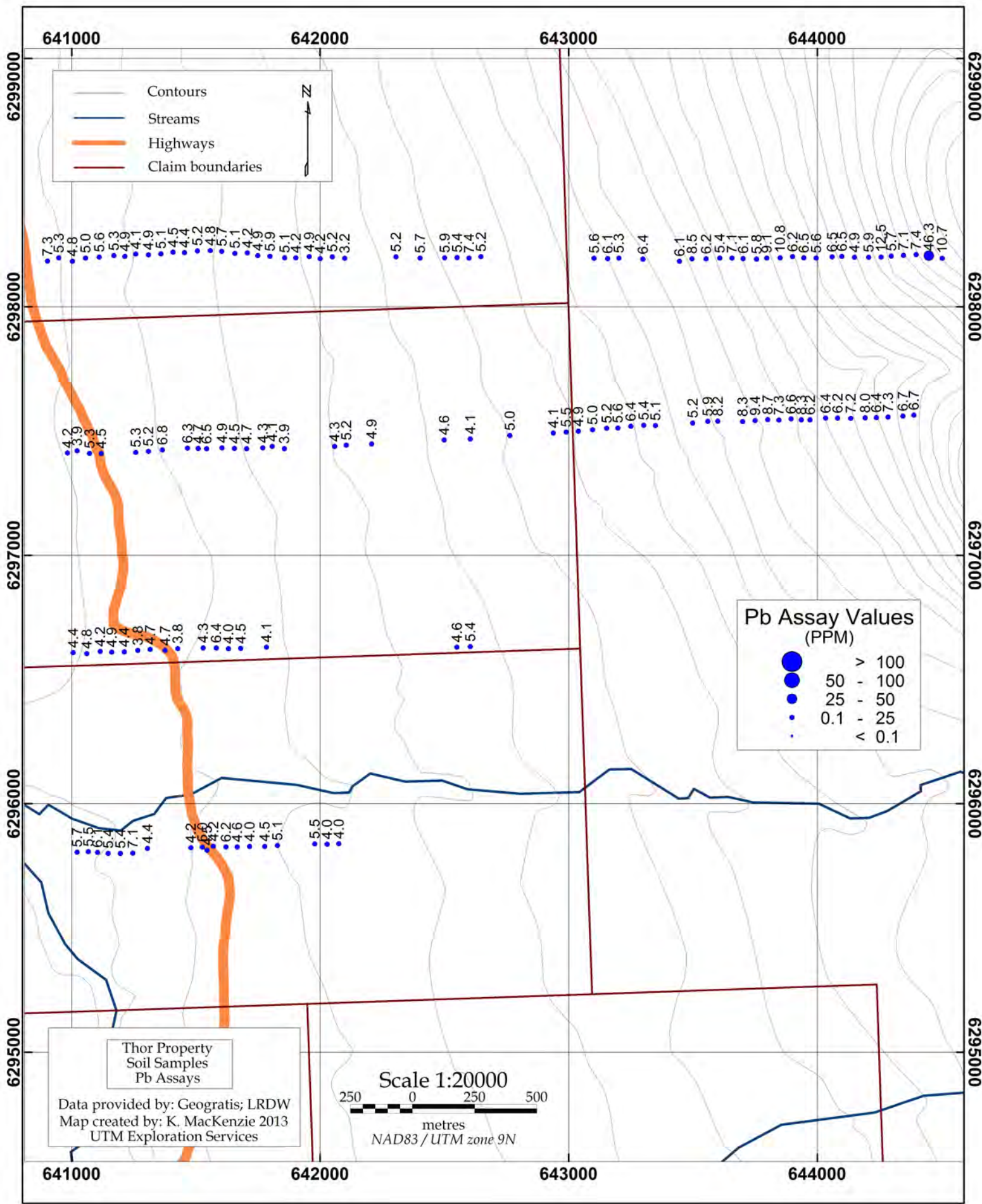
2.3 1.3 2.8 6.5 0.6 4.0 2.3 3.6 3.6 1.3 3.3 4.2 3.4 5.8 2.8 2.5 5.2 3.7 4.2 4.4 2.1 3.3 3.2 14.9 1.9 4.1 2.5 5.2 3.4 71.5 3.1 4.2 7.1 8.0 19.1 10.8 99.6 2.9 5.5 4.0 2.7 2.9 4.3 3.6 3.1

4.7 1.7 2.2 4.1 7.7 2.8 9.2 2.3 6.6 4.8 0.9 7.9 1.3 3.9 7.3 9.8

2.9 3.3 1.6 1.6 2.6 2.2 9.9 3.7 5.2 3.4 3.8 3.3 4.4 1.3 2.1 2.0

641000 642000 643000 644000





641000

642000

643000

644000

6299900

6298000

6297000

6296000

6295000

0006629

6298000

6297000

6296000

6295000

Legend:

- Contours
- Streams
- Highways
- Claim boundaries

Pb Assay Values (PPM)

- > 100
- 50 - 100
- 25 - 50
- 0.1 - 25
- ^ 0.1

Scale 1:20000

250 0 250 500

metres

NAD83 / UTM zone 9N

Thor Property
 Soil Samples
 Pb Assays

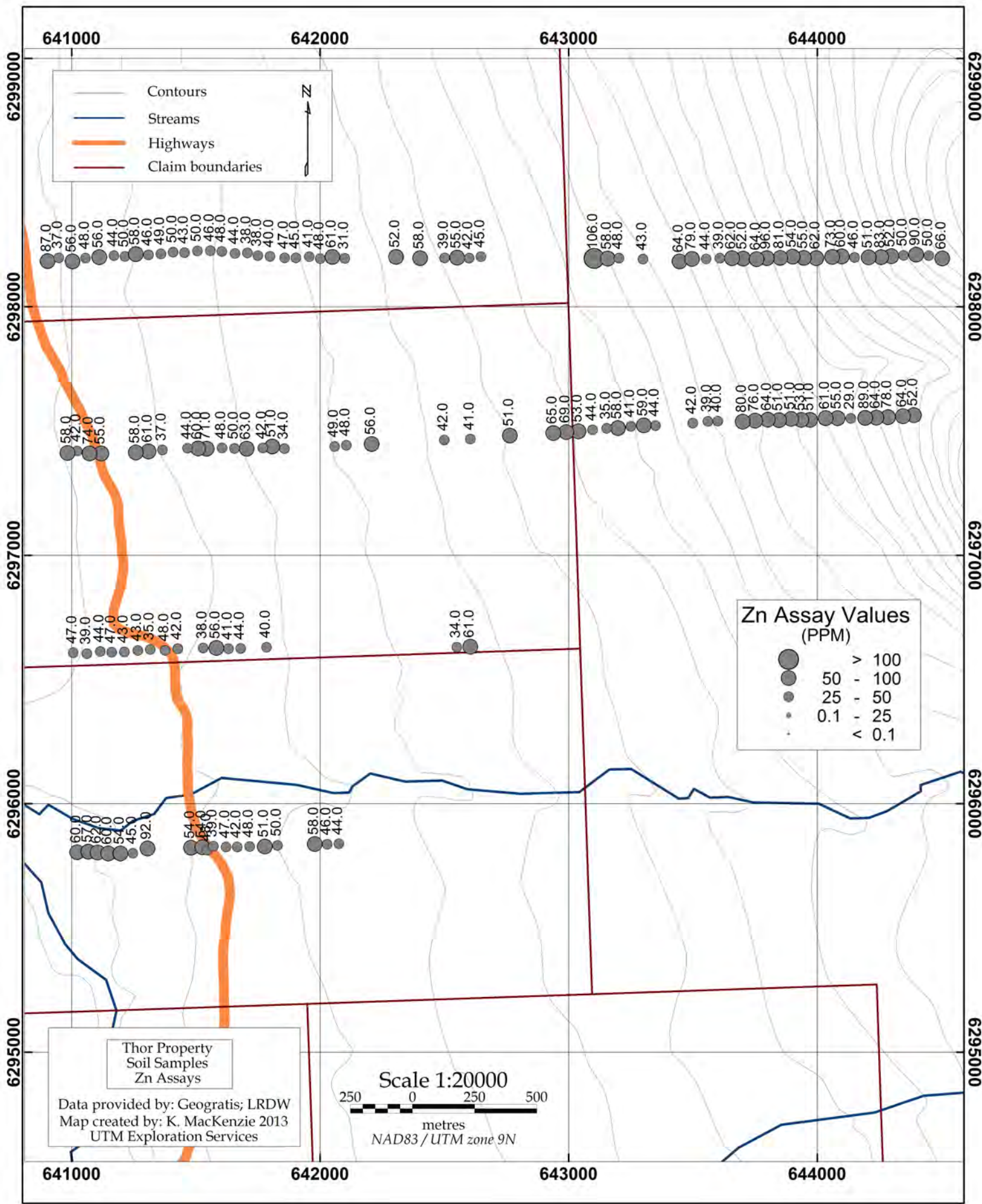
Data provided by: Geogratix; LRDW
 Map created by: K. MacKenzie 2013
 UTM Exploration Services

641000

642000

643000

644000



641000

642000

643000

644000

6299900

0006629

— Contours
 — Streams
 — Highways
 — Claim boundaries

6298000

6298000

6297000

6297000

Zn Assay Values (PPM)

- > 100
- 50 - 100
- 25 - 50
- 0.1 - 25
- ^ < 0.1

6296000

6296000

6295000

6295000

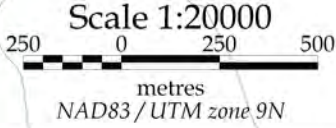
641000

642000

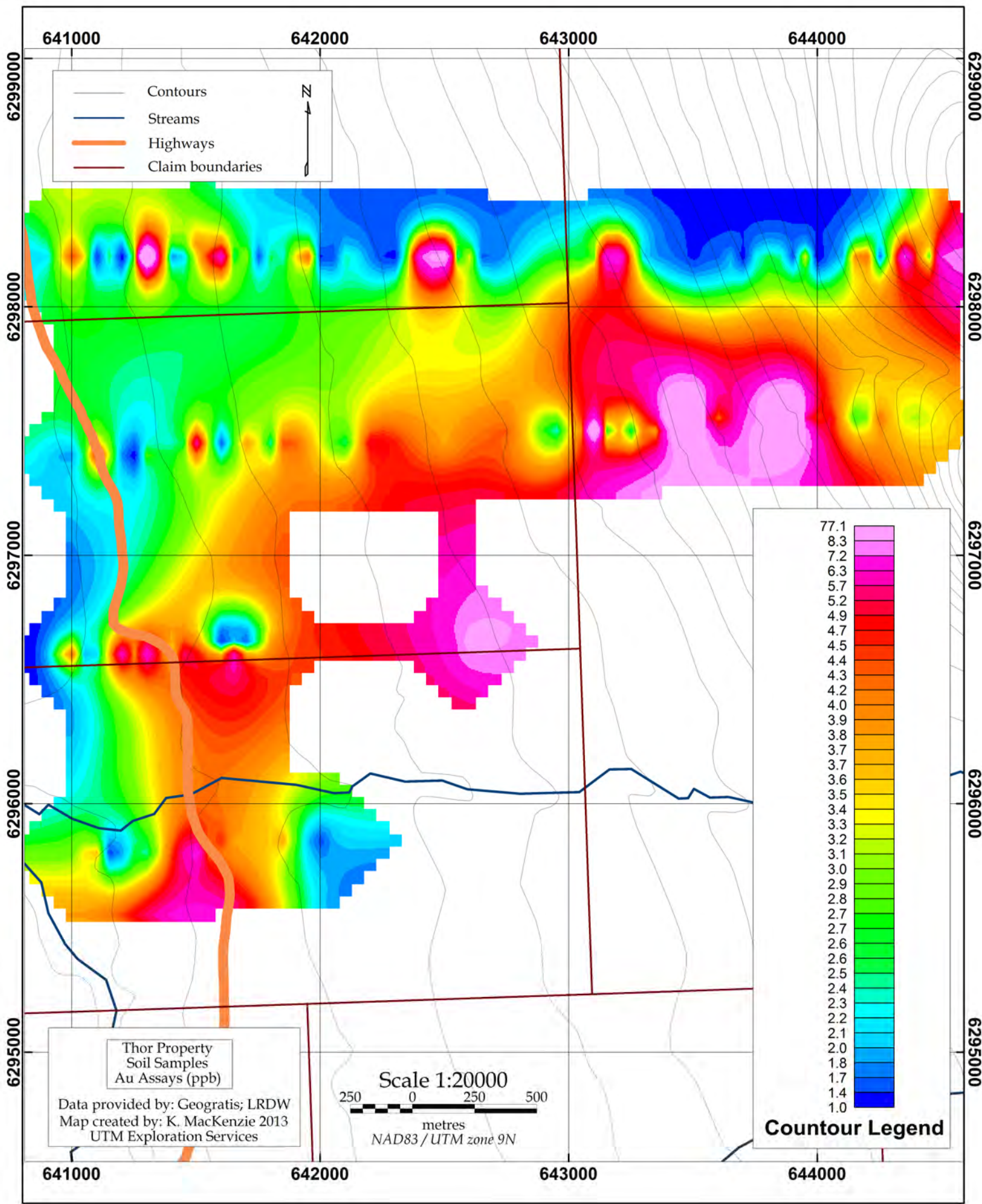
643000

644000

Thor Property
 Soil Samples
 Zn Assays
 Data provided by: Geogratix; LRDW
 Map created by: K. MacKenzie 2013
 UTM Exploration Services



APPENDIX IV: CONTOURED SOIL MAPS



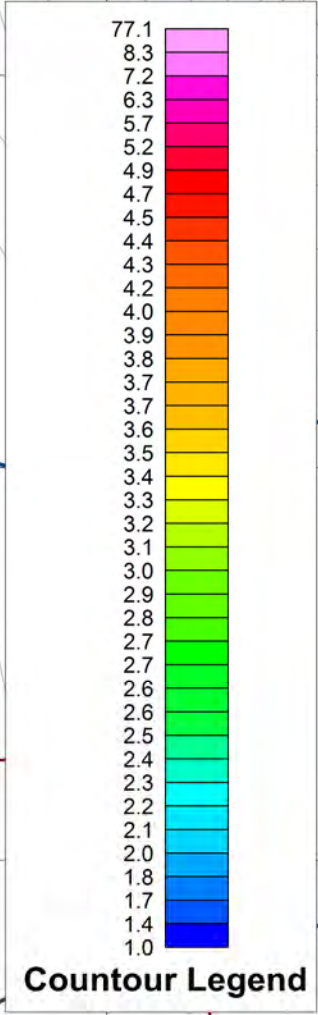
— Contours
 — Streams
 — Highways
 — Claim boundaries

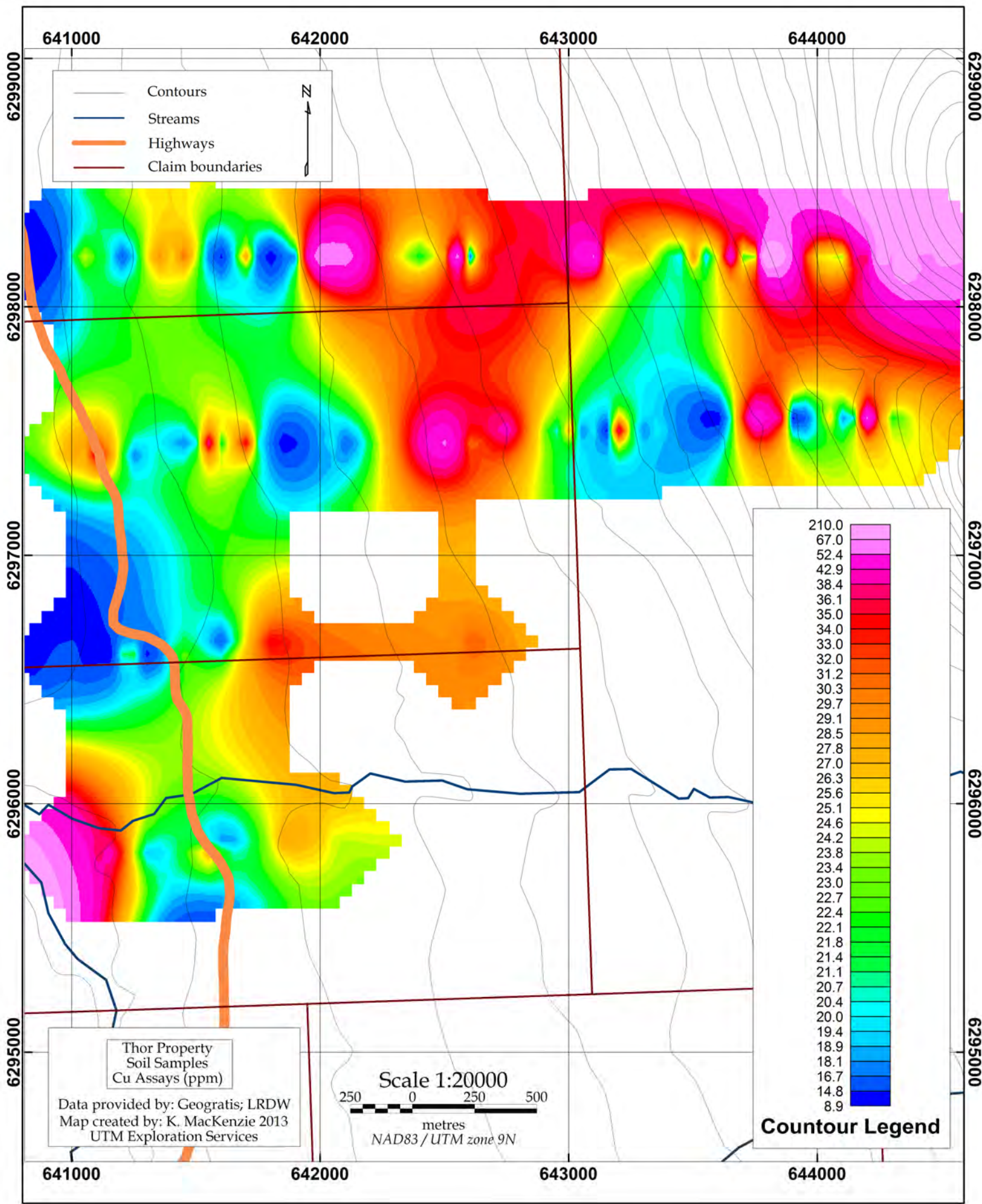
N

Thor Property
 Soil Samples
 Au Assays (ppb)

Data provided by: Geogratix; LRDW
 Map created by: K. MacKenzie 2013
 UTM Exploration Services

Scale 1:20000
 250 0 250 500
 metres
 NAD83 / UTM zone 9N





— Contours
 — Streams
 — Highways
 — Claim boundaries

N

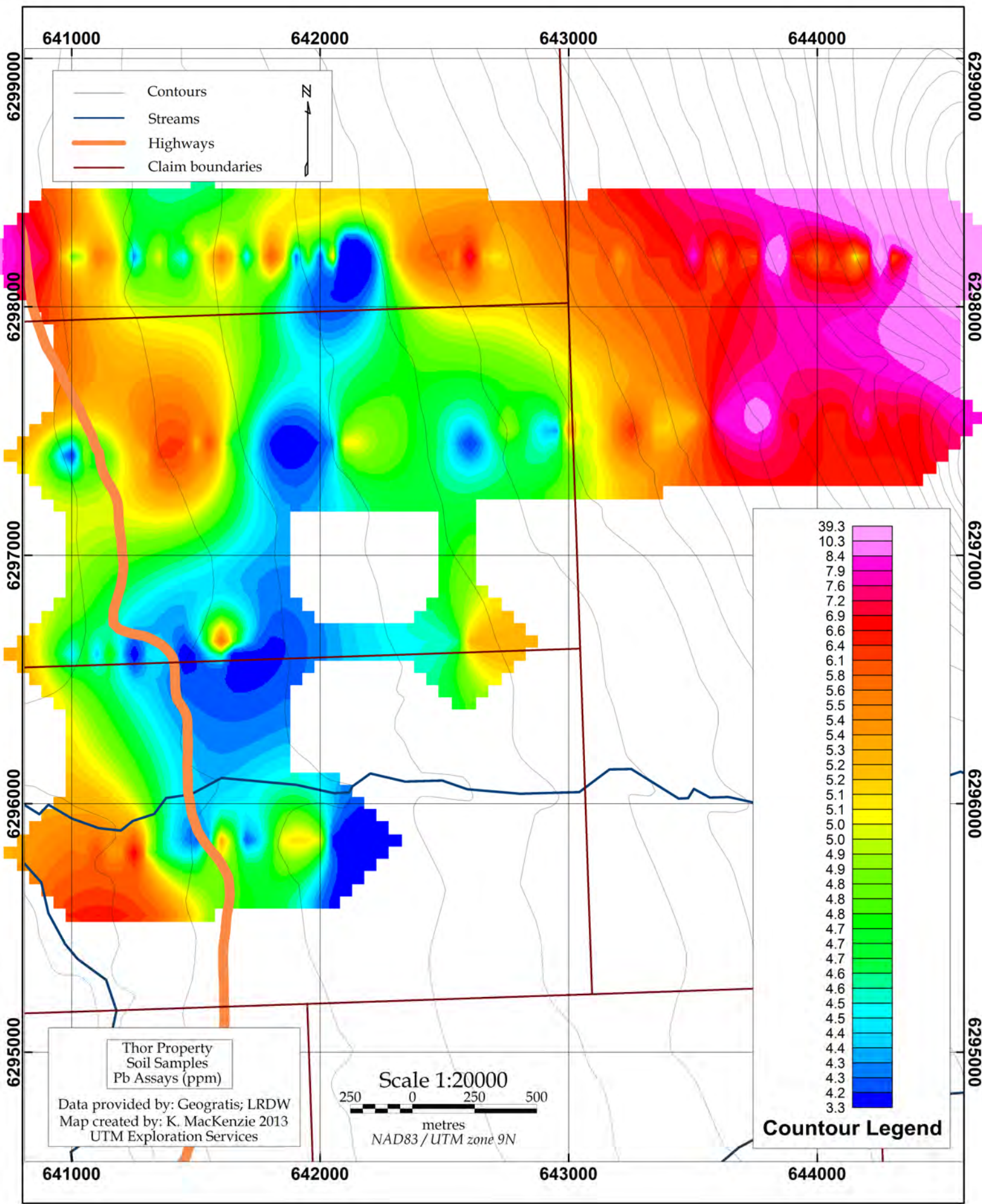
Thor Property
 Soil Samples
 Cu Assays (ppm)

Data provided by: Geogratix; LRDW
 Map created by: K. MacKenzie 2013
 UTM Exploration Services

Scale 1:20000
 250 0 250 500
 metres
 NAD83 / UTM zone 9N

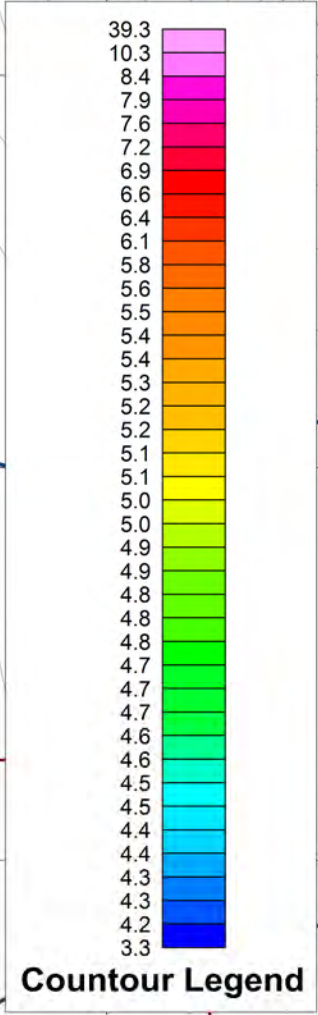
210.0
 67.0
 52.4
 42.9
 38.4
 36.1
 35.0
 34.0
 33.0
 32.0
 31.2
 30.3
 29.7
 29.1
 28.5
 27.8
 27.0
 26.3
 25.6
 25.1
 24.6
 24.2
 23.8
 23.4
 23.0
 22.7
 22.4
 22.1
 21.8
 21.4
 21.1
 20.7
 20.4
 20.0
 19.4
 18.9
 18.1
 16.7
 14.8
 8.9

Countour Legend



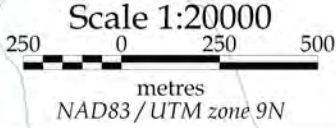
— Contours
— Streams
— Highways
— Claim boundaries

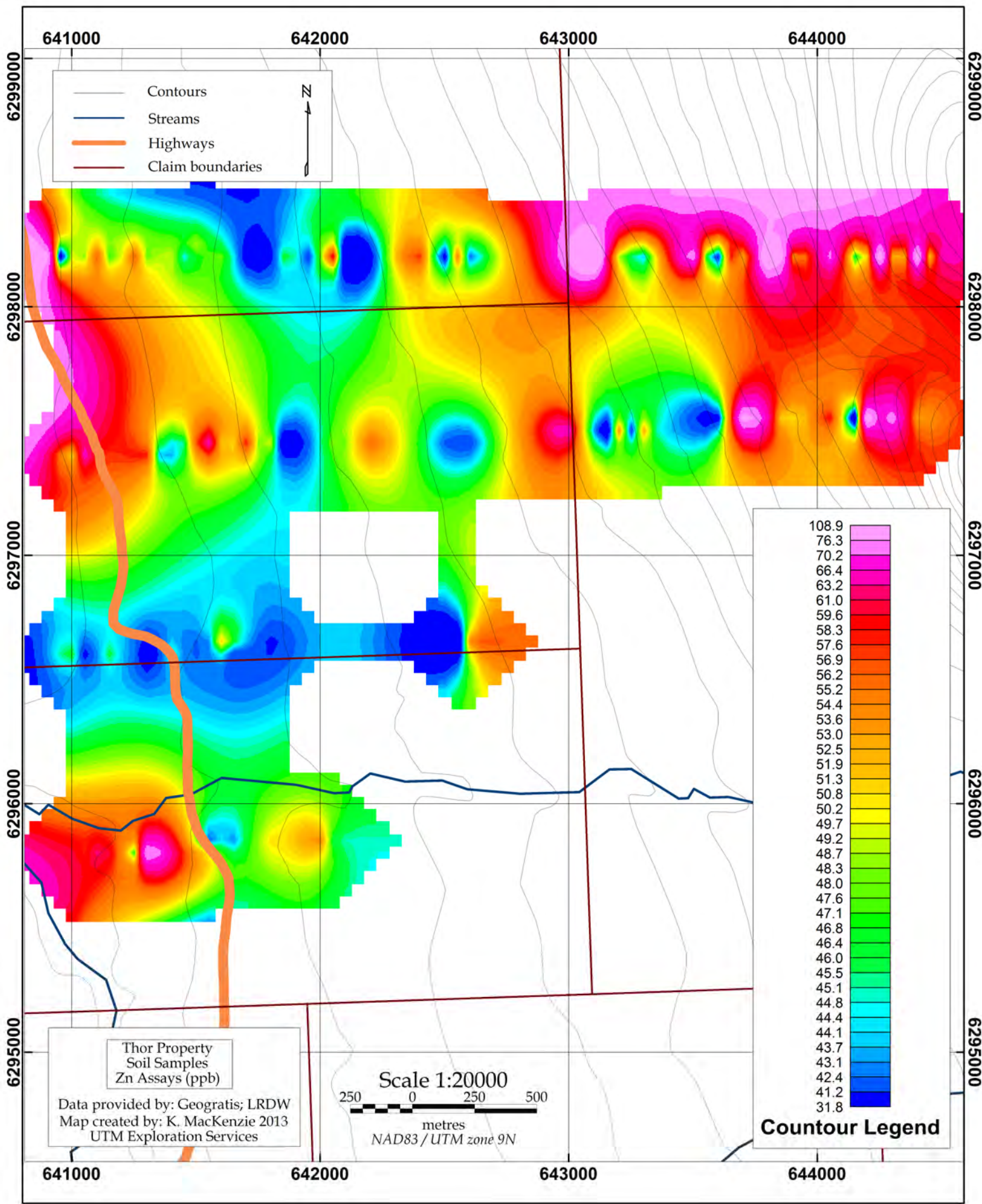
N



Thor Property
Soil Samples
Pb Assays (ppm)

Data provided by: Geogratix; LRDW
Map created by: K. MacKenzie 2013
UTM Exploration Services





— Contours
 — Streams
 — Highways
 — Claim boundaries

N

Thor Property
 Soil Samples
 Zn Assays (ppb)

Data provided by: Geogratix; LRDW
 Map created by: K. MacKenzie 2013
 UTM Exploration Services

Scale 1:20000
 250 0 250 500
 metres
 NAD83 / UTM zone 9N

Countour Legend

108.9
76.3
70.2
66.4
63.2
61.0
59.6
58.3
57.6
56.9
56.2
55.2
54.4
53.6
53.0
52.5
51.9
51.3
50.8
50.2
49.7
49.2
48.7
48.3
48.0
47.6
47.1
46.8
46.4
46.0
45.5
45.1
44.8
44.4
44.1
43.7
43.1
42.4
41.2
31.8

APPENDIX V: QUANTEC GEOSCIENCE MAPS

3.2.1 Line 5800N

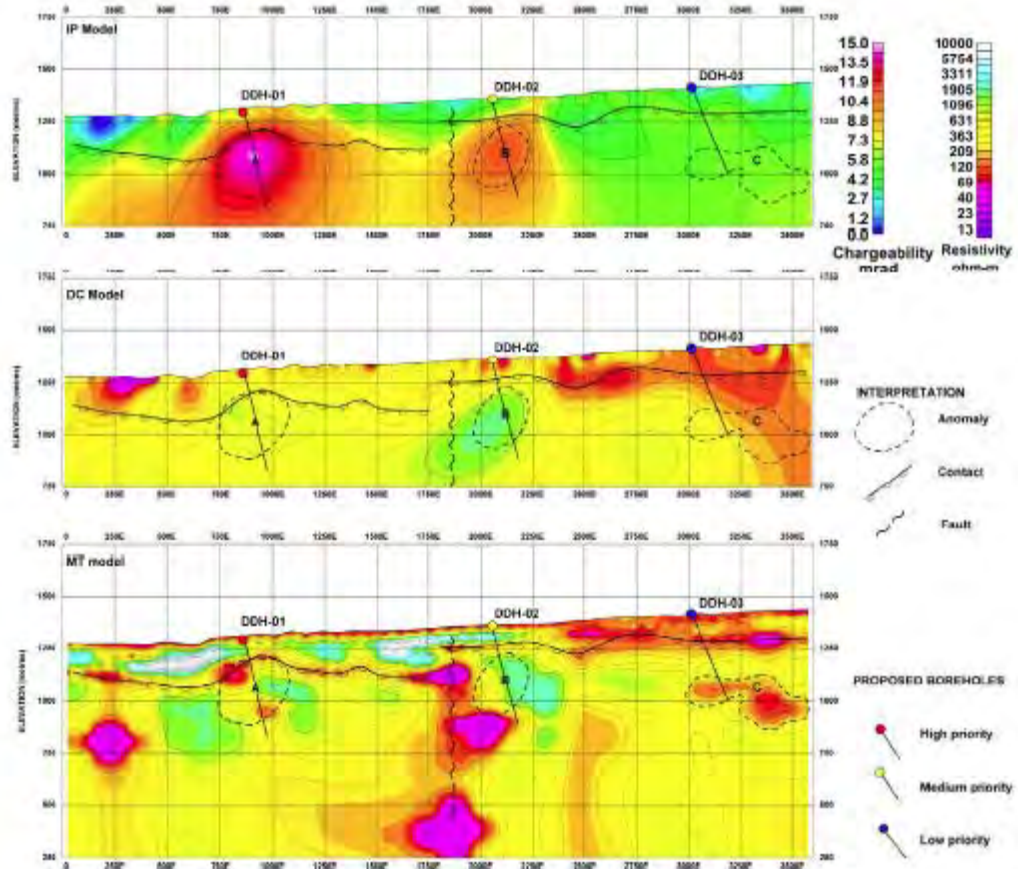


Figure 7: 2D inversion results Line 5800N.

3.2.2 Line 7400N

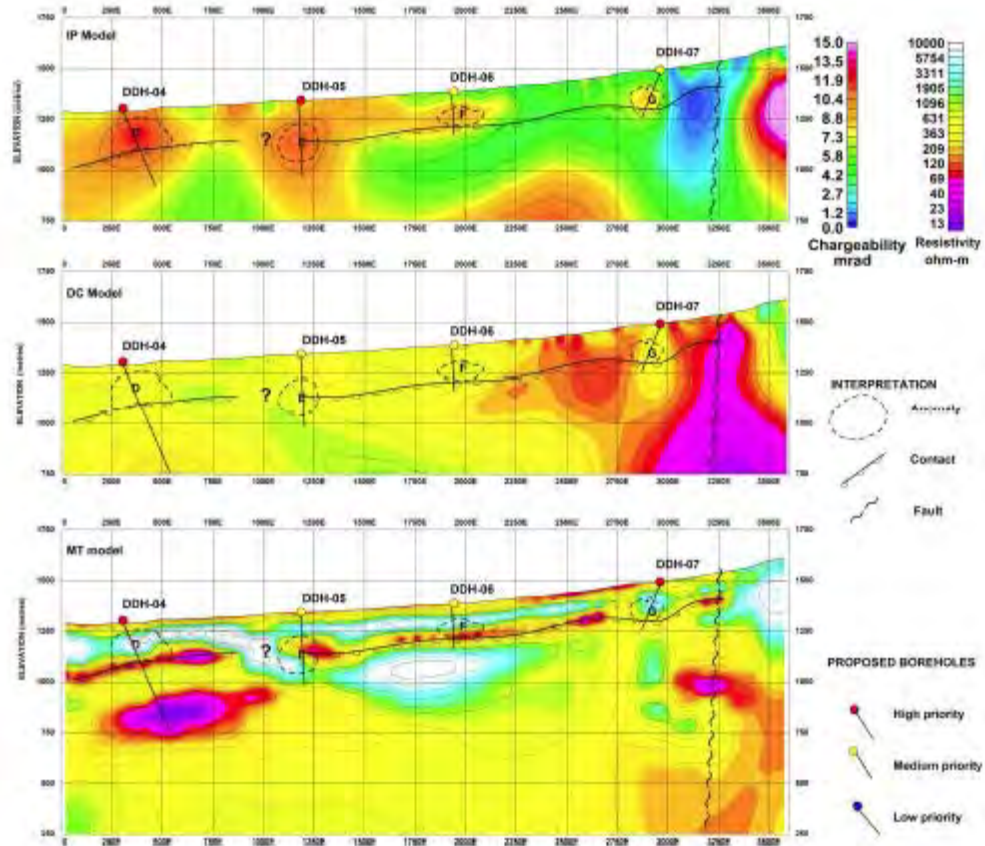


Figure 9: 2D inversion results Line 7400N.

APPENDIX VI: SOIL SAMPLING TEMPLATE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V				
1	Sampling Date	Sampling Crew	Client name	Property name	Sample #	Easting (NAD83)	Northing (NAD83)	Elevation (m)	UTM Zone	Soil Horizon	Sample depth (cm)	Sample colour	Moisture	Sample Environment	Slope	Sample Composition (pre-sieving)						Outcrop				
2																%clay	%Silt	%sand	%pebbles	%cobble	%total					
189	2013-08-14	T&S	ERC	Thor Marmot	1838	643051	6298205	BOG/CREEK/BURN						no sample												
190	2013-08-14	T&S	ERC	Thor Marmot	1839	643102	6298195	1437	9	B	50	dark brown	Wet		flat, gentle	60	30	10	0	0	100	N				
191	2013-08-14	T&S	ERC	Thor Marmot	1840	643157	6298194	1444	9	B	25	brown	Dry		flat, gentle	0	60	30	5	5	100	N				
192	2013-08-14	T&S	ERC	Thor Marmot	1841	643202	6298196	1448	9	B	40	dark brown	Dry		flat, gentle	10	40	30	10	10	100	N				
193	2013-08-14	T&S	ERC	Thor Marmot	1842	643254	6298203	ORGANICS						no sample												
194	2013-08-14	T&S	ERC	Thor Marmot	1843	643299	6298192	1456	9	B	30	dark brown	moist		flat, gentle	0	30	20	40	10	100	N				
195	2013-08-14	T&S	ERC	Thor Marmot	1844	643348	6298192	HEAVY ORGANICS DOWN TO 80CM						no sample												
196	2013-08-14	T&S	ERC	Thor Marmot	1845	643396	6298198	CREEK						no sample												
197	2013-08-14	T&S	ERC	Thor Marmot	1846	643446	6298183	1477	9	B	25	brown	Dry		w facing, gentle	0	60	20	10	10	100	N				
198	2013-08-14	T&S	ERC	Thor Marmot	1847	643496	6298193	1489	9	B	40	dark brown	moist		w facing, moderate	50	20	20	5	5	100	N				
199	2013-08-14	T&S	ERC	Thor Marmot	1848	643702	6298194	1519	9	B	40	light brown	Dry		flat, gentle	0	60	30	5	5	100	N				
200	2013-08-14	T&S	ERC	Thor Marmot	1849	643657	6298196	1508	9	B	45	light brown	moist		flat, gentle	30	50	10	5	5	100	N				
201	2013-08-14	T&S	ERC	Thor Marmot	1850	643608	6298196	1505	9	B	40	light brown	Dry		flat, gentle	0	50	40	5	5	100	N				
202	2013-08-14	T&S	ERC	Thor Marmot	1851	643553	6298193	1489	9	B	30	light brown	Dry		flat, gentle	10	50	30	5	5	100	N				
203	2013-08-15	T&S	ERC	Thor Marmot	1852	644503	6298195	1720	9	B	40	dark brown			w facing, steep	0	20	30	30	20	100	N				
204	2013-08-15	T&S	ERC	Thor Marmot	1853	644449	6298206	1705	9	B	30	brown	moist		w facing, steep	40	30	10	10	10	100	N				
205	2013-08-15	T&S	ERC	Thor Marmot	1854	644398	6298210	1694	9	B	25	black	Dry		w facing, moderate	40	30	0	15	15	100	N				
206	2013-08-15	T&S	ERC	Thor Marmot	1855	644347	6298207	1682	9	B	60	light brown	moist		w facing, moderate	70	20	0	5	5	100					
207	2013-08-15	T&S	ERC	Thor Marmot	1856	644298	6298204	1666	9	B	40	light brown	moist		w facing, moderate	60	30	0	5	5	100					
208	2013-08-15	T&S	ERC	Thor Marmot	1857	644257	6298200	1654	9	B	25	dark brown	Dry		w facing, steep	0	40	30	15	15	100	N				
209	2013-08-15	T&S	ERC	Thor Marmot	1858	644207	6298199	1636	9	B	30	brown	Dry		w facing, moderate	0	40	30	15	15	100	N				
210	2013-08-15	T&S	ERC	Thor Marmot	1859	644150	6298199	1622	9	B	40	brown	moist		w facing, moderate	0	40	40	15	5	100	N				
211	2013-08-15	T&S	ERC	Thor Marmot	1860	644099	6298203	1609	9	B	40	light brown	Dry		w facing, moderate	0	40	30	15	15	100	N				
212	2013-08-15	T&S	ERC	Thor Marmot	1861	644060	6298201	1600	9	B	25	light brown	Dry		w facing, moderate	0	40	40	10	10	100	N				
213	2013-08-15	T&S	ERC	Thor Marmot	1862	643996	6298196	1587	9	B	30	light brown	moist		w facing, moderate	50	30	0	10	10	100	N				
214	2013-08-15	T&S	ERC	Thor Marmot	1863	643946	6298197	1573	9	B	25	light brown	Dry		w facing, moderate	10	50	30	5	5	100	N				
215	2013-08-15	T&S	ERC	Thor Marmot	1864	643901	6298202	1560	9	B	30	dark brown	moist		w facing, gentle	20	50	10	10	10	100	N				
216	2013-08-15	T&S	ERC	Thor Marmot	1865	643851	6298197	1543	9	B	50	dark brown	moist		w facing, moderate	60	30	0	5	5	100	N				
217	2013-08-15	T&S	ERC	Thor Marmot	1866	643797	6298196	1532	9	B	50	dark brown	moist		w facing, gentle	30	50	20	0	0	100					
218	2013-08-15	T&S	ERC	Thor Marmot	1867	643756	6298192	1522	9	B	30	brown	Dry		w facing, moderate	0	50	30	10	10	100					