

2012 TECHNICAL ASSESSMENT REPORT

FOR THE STOCK PROPERTY

Omineca Mining Division, British Columbia

NTS 93L 11W
54 41' 40" N/127 27' 18" W

**BC Geological Survey
Assessment Report
34037**

Event #:

**Tenure #'s: 903869, 903829, 903849, 903870, 903749, 903769, 903729,
903871, 903789, 903809**

Prepared for:

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&

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TABLE OF CONTENTS

1. Summary.....	4
2. Introduction and Terms of Reference	4
3. Property Description and Location	6
3.1 Accessibility and Infrastructure	6
3.2 Mineral Tenure Information	6
3.3 Physiography and Climate	9
4. History	9
5. Geological Setting	10
5.1 Regional Geology	10
5.2 Local Geology	10
6. Sampling program	12
6.1 Methodology and Procedure	12
6.1.1 Soils	12
6.1.2 Rocks	14
7. Sampling	17
7.1 Sampling Method and Approach	17
7.2 Sample Preparation, Analyses, and Security	17
7.3 Data Verification	17
7.4 Results	17
8. Interpretation and Conclusions	17
8.1 Soils	17
8.2 Rocks.....	18
9. Recommendations	19
10. Statement of Costs	20
11. References	22
12. Statement of Qualifications.....	23
Appendix I: Assay Certificates	24
Appendix II: Lab Methodologies.....	45
Appendix III: Geochemical Maps	50
Appendix IV: Sample Details	57
Appendix V: Photos.....	62

Figure 1. Property Location Map.....	5
Figure 2. Mineral Tenure Map (100k)	7
Figure 3. Mineral Tenure Map (25k)	8
Figure 4. Regional Geology.....	11
Figure 5. Sample Locations Map.	13
Figure 6. Rock Sample Locations Map.....	16
Table 1. Mineral Tenure Details.	6
Table 2. Highlights from Rock Assays.....	15

1. SUMMARY

In the fall of 2012, Richard Billingsley of Surrey, BC contracted UTM Exploration Services Ltd of Smithers, B.C. to conduct a field exploration program on the Stock property. The program was designed to focus on geochemical soil sampling, rock sampling as well as brief reconnaissance fieldwork to identify historical exploration workings.

The program targeted two main areas within the claim boundaries; the Stock Minfile showing and the Table Minfile showing. A soil survey was conducted over the Stock and Table showings west of the soil sampling grid of the 1960's. Analyses show very strong copper, gold, silver, zinc anomalies with localized molybdenum and lead anomalies. A rock sampling program was conducted across the property focusing on the areas of the Stock and Table showings and within the geochemical soil sampling grid. Analyses of the rock samples exhibited very strong copper percentages over a vast area.

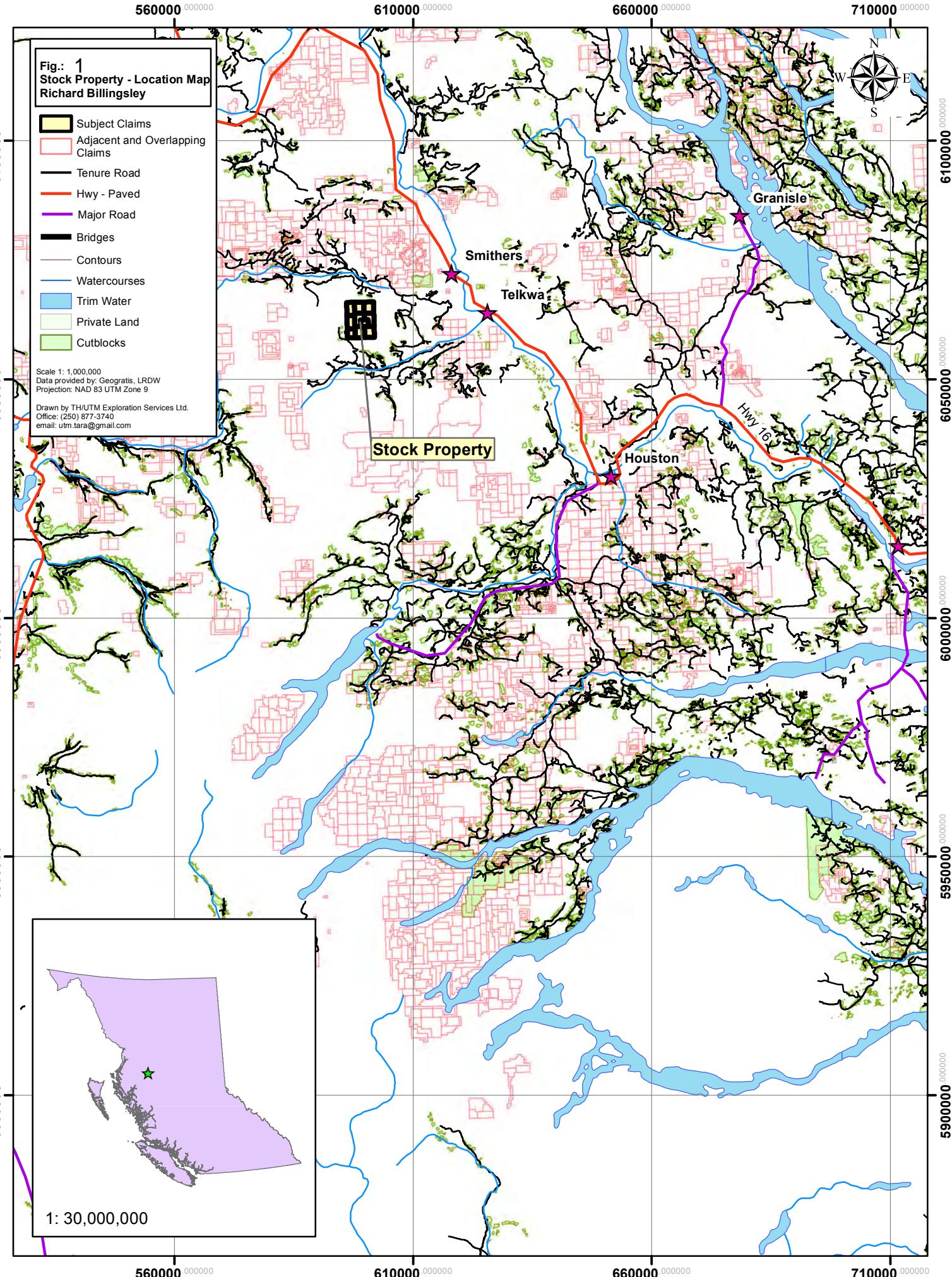
The Stock property is located approximately 42km south-southwest of Smithers, British Columbia and consists of 10 mineral claims (Figure 1). Exploration included geochemical soil sampling, rock sampling and reconnaissance fieldwork focused on identifying historical workings.

This field program was conducted between September 30th and October 3rd 2012 and provided much of the data on which this report is based.

2. INTRODUCTION AND TERMS OF REFERENCE

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

It is understood that this report may be required for material disclosure. The author visited the property several times in September/October of 2012.



3. PROPERTY DESCRIPTION AND LOCATION

3.1 ACCESSIBILITY AND INFRASTRUCTURE

The property is accessed from the village of Telkwa, B.C. From Telkwa you drive approximately 26 kilometers south-southwest along the Telkwa Forest Service Road (FSR) and then turn right onto the Microwave access road. Driving another 16 km up and along this switchback dirt road takes you to the center of the Stock property. Access to the property can also be via helicopter from Smithers. Once on the property there are numerous small access trails throughout the entire property that reach all corners of the claims. These access trails have been created over the years from the local snowmobiling clubs and bike clubs.

The property, except for the obvious Leach Mountain to the west, is relatively flat lying with shallow and gradual elevation increases.

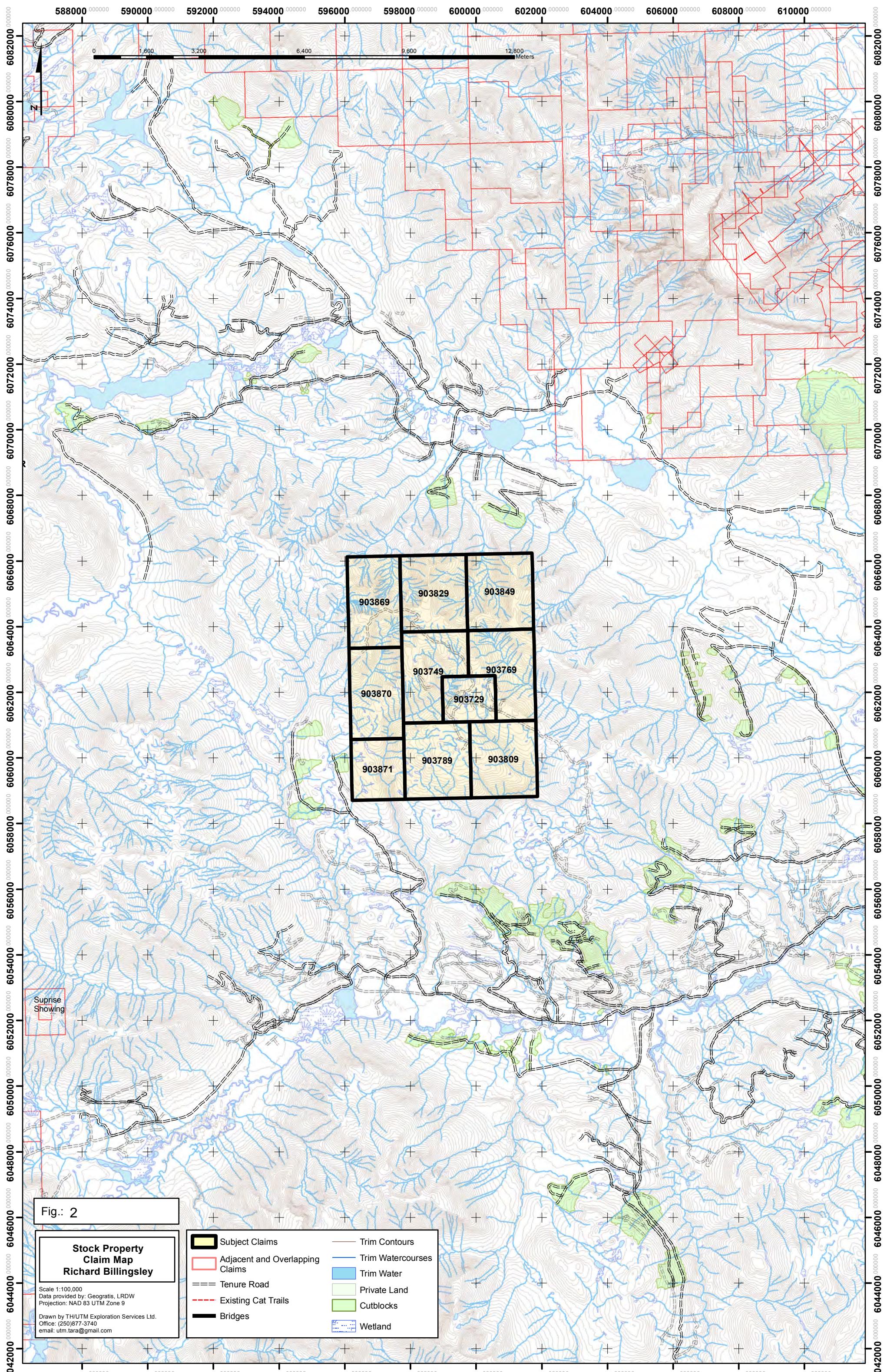
3.2 MINERAL TENURE INFORMATION

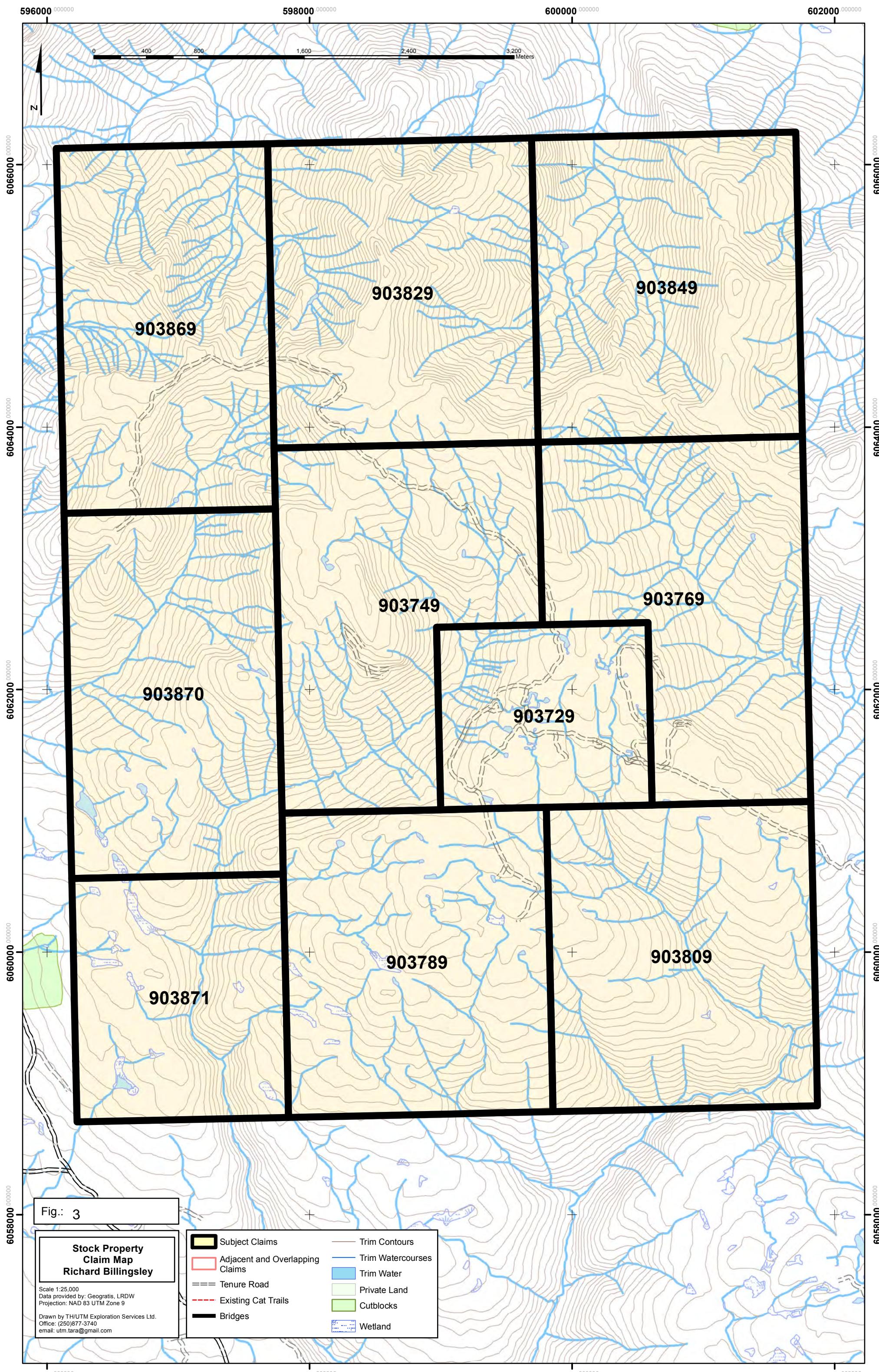
The Stock property consists of 10 mineral claims, totaling 4186.14ha (Table 1, Figures 2 and 3). The property is located on NTS map sheet 93L/11W in the Omineca Mining Division and approximately 42km south-southwest of the village of Telkwa, B.C. The geographic coordinates of the approximate centre of the property are 54°41'N Latitude and 127°27'W Longitude.

Table 1. Mineral Tenure Details.

Tenure Number	Type	Claim Name	Good Until	Area (ha)
903729	Mineral	STOCK	20140218	224.29
903749	Mineral	STOCK 1	20140218	448.5014
903769	Mineral	STOCK 2	20140218	448.4903
903789	Mineral	STOCK 3	20140218	467.4647
903809	Mineral	STOCK 4	20140218	467.4567
903829	Mineral	STOCK 5	20140218	466.9462
903849	Mineral	STOCK 6	20140218	466.9346
903869	Mineral	STOCK 7	20140218	448.2976
903870	Mineral	STOCK 8	20140218	448.5669
903871	Mineral	STOCK 9	20140218	299.1942

Total Area: 4186.1426 ha





3.3 PHYSIOGRAPHY AND CLIMATE

Topographic relief over the claims is moderate with gentle sloping subapline fields extending to the north, northeast. Leach mountain sits across Winfield Creek to the west and represents the highest point of elevation on the property. Elevation varies from 1100m to 1400m across approximately 5km of north-south exposure.

Sub-alpine meadow and moderate stands of pine, spruce, alder and minor cottonwood scatter the southern and eastern claims while the upper claims are barren of trees and covered with a hummocky exposure of grasses and small brush. As the property lies at an average of 1250m of elevation, the weather and temperature are typical of the alpine regions of central and northwestern B.C.. Snow can be expected from early October to late May, while summer months experience moderate rainfall. Some ground (mostly shaded valleys and shaded northern facing slopes) can be covered during the colder summers.

4. HISTORY

The region has been explored since the early 1900's. A brief historical overview is shown below:

- 1917 the Copper Queen property was discovered – a 50-75 foot deep shaft was completed and another 95 foot adit below this shaft was completed. Local stories and the 1917 Omineca Herald newspaper say that the 12 tons of copper ore shipped out assayed 42% Cu, 10oz Ag and 0.4oz Au.
- 1917 – 1967 the property remained unexplored and dormant
- 1967 – Copper Queen Exploration Ltd - conducted a widespread geochemical survey over the Stock and Table property as well as a recce rock sampling program over Leach Mountain and the Stock and Table areas
- 1969 – Copper Queen Exploration Ltd - conducted a geophysical IP survey over the Stock and Table showings.
- 1971- Copper Queen Exploration Ltd (Texas Gulf) – conducted another geochemical soil survey over the Table and Ken claims
- 1971? - Drilling was conducted and 5 drillholes were drilled into the Table showing area – proper documentation of who did the drilling remains unknown, but previous assessment reports and maps therein suggest it was real (2012 confirmation of 1 drill collar was located)
- 1972 – Copper Queen Exploration Ltd – geological mapping and geochemical soil surveys conducted over the Stock and Table showings
- No further work has been reported since 1972

5. GEOLOGICAL SETTING

5.1 REGIONAL GEOLOGY

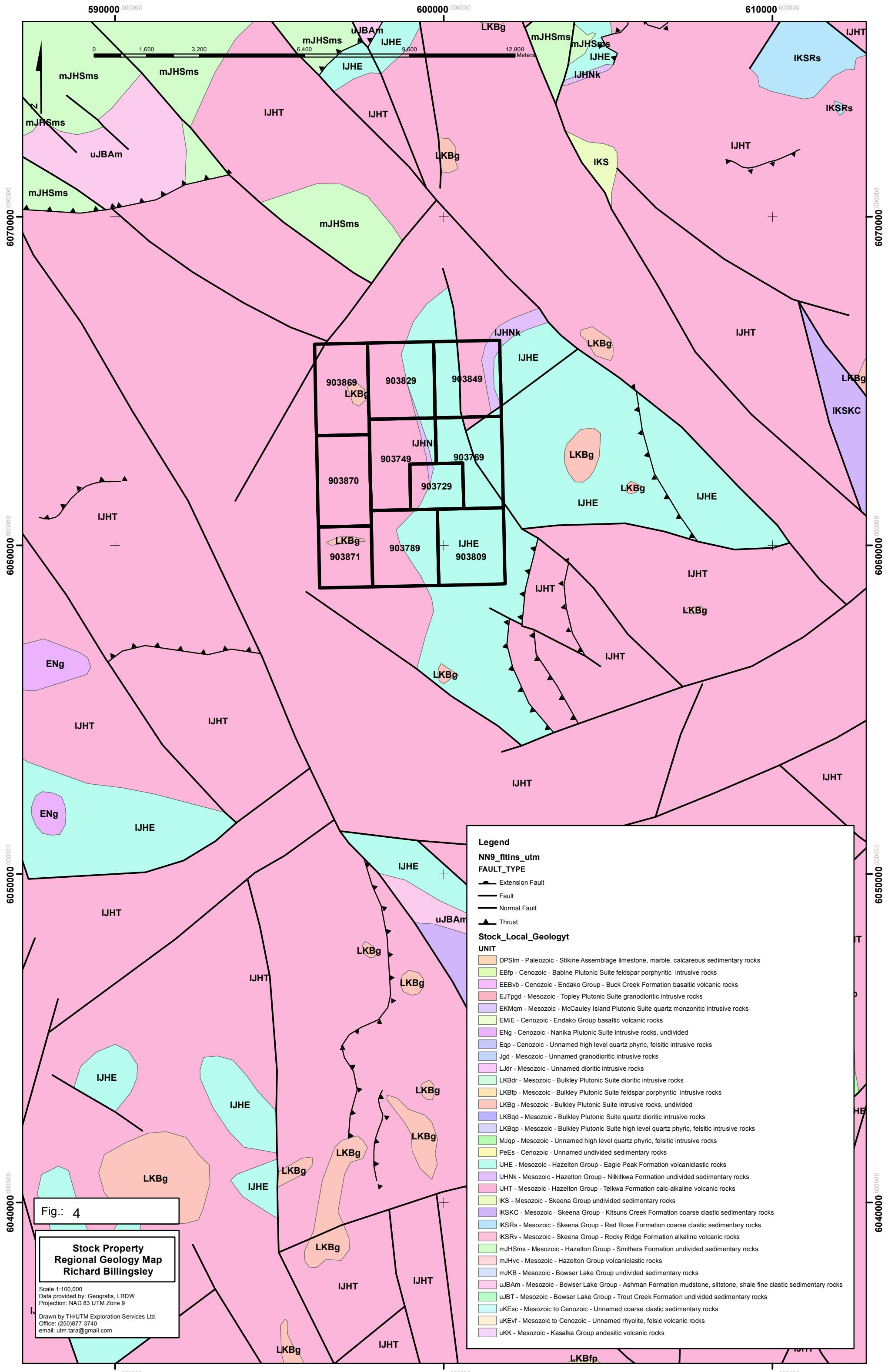
The property is underlain by a thick pile of volcanic rocks of the Jurassic-Cretaceous Hazelton group (Figure 4). This sequence includes volcanic flows, tuffs and agglomerates, ranging in composition from andesite to rhyolite and also contains sedimentary sections. The closest intrusive rocks are located as small occurrences throughout the property; however, insufficient regional mapping has yet to determine the true boundaries.

5.2 LOCAL GEOLOGY

Geological mapping at a scale of 400 feet to the inch was confined to the Table showing area and parts of the stock showing. A series of volcanic rocks trends north to northeastwards through the property with strikes ranging from 350-030° and dips ranging from 20-40° east. The sequence in and around the stock showing is comprised largely of a fine grained, purple lithic andesite and to a lesser degree, a grey lithic andesite. Locally this andesite is referred to as the Telkwa andesite. The grey version of the andesite is interpreted as being a “bleached” sequence of the purple, unaltered, andesite. In the southwest of the property, a porphyritic and sometimes amygdaloidal andesite, containing phenocrysts of pink feldspar form the local topographic highs.

To the southeast of the property in the occurrence of the Table showing the area is blanketed with a banded siliceous, almost chert like, rock. The bands are cm scale and alternating brown white with mafic specks throughout. The rock is extremely hard. This banded unit is probably rhyolite and exhibits both flow and tuffaceous textures. Moderate copper mineralization, present as malachite, can be found in this unit in numerous locations.

The stock showing or ‘old copper queen high grade zone’ is a strongly altered group of rocks that are assumed to be the local Telkwa andesite. The zone of high grade altered rock is approximately 10 meters wide and has an east-west strike of over 100 meters. Either side of the altered, gossanous looking rock, the rock is observed to gradually grade into a purple lithic andesite. The zone of mineralization has a “zipper” like opening to its presence, in that the eastern end of the altered corridor pinches out to the east and ultimately becomes only recognizable purple andesite and as the altered outcrop is unearthed and followed to the west, the altered package of rocks increases in width until finally steep slopes and treed overburden cover its exposure.



6. SAMPLING PROGRAM

6.1 METHODOLOGY AND PROCEDURE

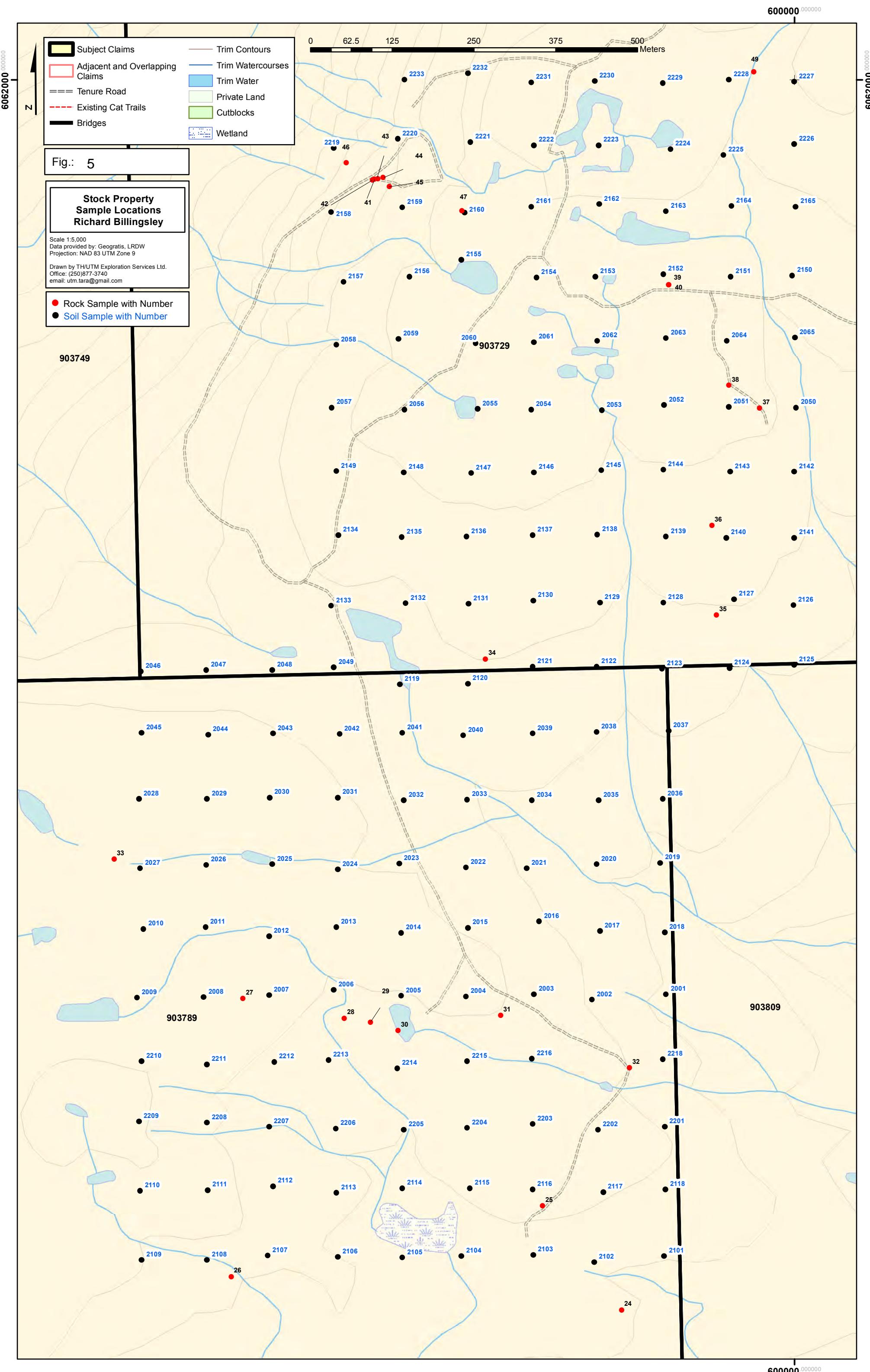
Figure 5 shows the sample locations for both soils and rocks.

6.1.1 SOILS

Between September 30th and October 3rd, 2012, a four man crew from UTM Exploration Services conducted a detailed geochemical soil survey as well as a rock sampling program across the stock and table showing areas. Soil samples were taken at 100m sample spacing and 100m line spacing in order to adequately cover the two showings. A total of 162 soil samples were taken using a spade shovel from depths of 15cm to 50cm. All soil samples taken are found in Appendix I as well as on Figure 5.

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, 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/ICP-MS method with all gold values reported in 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.



6.1.2 ROCKS

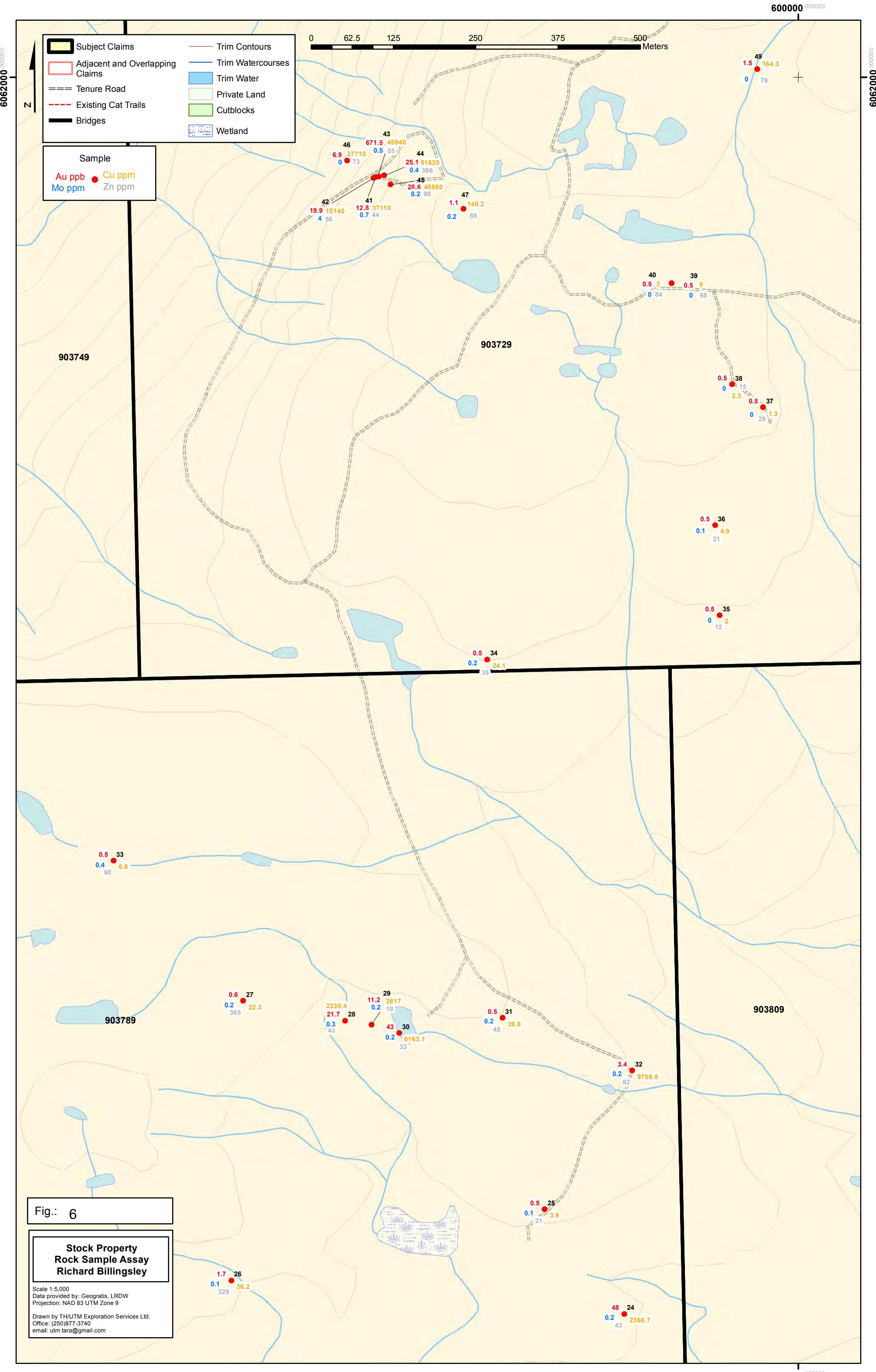
During the fall 2012 soil sampling program the crew collected a total of 25 rock samples while traversing the soil grid area. All rock samples are found in Appendix I as well as Figure 6. Table 2 shows assay highlights.

The location of the rock samples was recorded as well as descriptive comments. Location was determined using a handheld Garmin CSx GPS unit. Samples were collected in 12x20 poly samplebags and labeled using the sample tag number assigned to each individual sample. A sample tag matching the written number on the outside of the bag was placed in the bag and tied off using a tie strap.

All samples were transported directly to the laboratory by UTM personnel. All rock samples were prepped at the ACME prep lab in Smithers, B.C. and then the pulps were transported to the Vancouver, B.C. lab for full analysis. Rock samples were analyzed using an ICP/ICP-MS method as well as fire assay ICP-OES finish with all gold values reported in PPB while 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.

Table 2. Highlights from Rock Assays.

Sample #	Easting (NAD83)	Northing (NAD83)	Cu ppm	Cu%	Ag ppm	Au ppb	Pb ppm	Zn ppm	Mo ppm
24	599736	6060120	2366.7	0.24	1.2	48	13.9	43	0.2
25	599615	6060279	3.9	0.00	0.1	<0.5	21.5	21	0.1
26	599139	6060171	36.2	0.00	<0.1	1.7	4.1	329	0.1
27	599157	6060596	22.3	0.00	<0.1	0.6	6	365	0.2
28	599312	6060566	2335.4	0.23	8.1	21.7	9	43	0.3
29	599352	6060560	2617	0.26	4.8	11.2	6.7	18	0.2
30	599394	6060547	6163.1	0.62	13.7	43	4.9	33	0.2
31	599551	6060570	39.8	0.00	0.1	<0.5	5.6	45	0.2
32	599748	6060490	9789.8	0.98	14.6	3.4	3.1	82	0.2
33	598960	6060809	6.8	0.00	<0.1	<0.5	7.9	60	0.4
34	599528	6061115	24.1	0.00	<0.1	<0.5	4.2	35	0.2
35	599881	6061182	2	0.00	<0.1	<0.5	4	12	<0.1
36	599874	6061319	4.9	0.00	<0.1	<0.5	3.7	21	0.1
37	599947	6061498	1.3	0.00	<0.1	<0.5	3.2	29	<0.1
38	599900	6061533	2.3	0.00	<0.1	<0.5	1.7	15	<0.1
39	599808	6061687	9	0.00	<0.1	<0.5	6.7	68	<0.1
40	599808	6061687	3	0.00	0.1	<0.5	7	84	<0.1
41	599358	6061848	37710	3.77	44	12.8	32.8	44	0.7
42	599355	6061847	15140	1.51	8	19.9	97.5	56	4
43	599363	6061849	45940	4.59	>300	671.5	49.9	55	0.5
44	599371	6061851	51620	5.16	58	25.1	29.6	386	0.4
45	599381	6061837	40860	4.09	41	28.6	16.1	98	0.2
46	599315	6061873	37110	3.71	31	6.9	13.5	73	<0.1
47	599492	6061800	140.2	0.01	0.1	1.1	5.3	88	0.2
49	599938	6062012	164.3	0.02	0.7	1.5	2.5	79	<0.1



7. SAMPLING

7.1 SAMPLING METHOD AND APPROACH

See Sections 6.1 and 6.2 for details of on-site sampling method. After sample collection, sample bags were stored by UTM personnel until they were delivered to the ACME Prep Lab in Smithers, BC. Richard Beck saw the samples at ACME and filled out all the appropriate paperwork.

7.2 SAMPLE PREPARATION, ANALYSES, AND SECURITY

ACME dried all of the soil samples at 60C and then dry seived 100g of each sample to -80 mesh. Aqua Regia digestion and ICP-MS analysis was requested, along with appropriate tests for overlimits. ACME crushed, split and pulverized all of the rock samples to 250g rock to 200 mesh. Aqua Regis digestion ICP-MS analysis was requested as well as 4-acid digestion ICP-ES finish, along with the appropriate tests for overlimits.

Lab methodology is described in Appendix II.

7.3 DATA VERIFICATION

No standards or blanks were submitted although the labs run their own tests regularly.

7.4 RESULTS

All assay results may be found in Appendix I.

8. INTERPRETATION AND CONCLUSIONS

Initial preview of the historical data, Minfiles, assessment reports, Minister of Mines Annual Reports and geophysical IP survey data, all suggested significant potential for the Stock Property. Visually the property is a moderately flat, rolling hill collection of easterly dipping andesites, rhyolitic tuffs and banded siliceous volcanics intruded by local mafic dikes. Within these andesites, rhyolites and banded volcanics many outcrop exposures returned significant assay results for copper and many of the geochemical soil samples taken across the same rock assemblages within the same area of exploration returned noteworthy assay results for copper, gold, silver, lead, molybdenum and zinc.

8.1 SOILS

The 2012 geochemical soil sampling program has outlined an extensive mineralized corridor as observed in the geochemical soil maps in Appendix III. The geochemical soil maps illustrate north-northeast striking anomalous zones, within the southern Table showing area, that have an apparent 700m strike length and a 100-300m width. The anomalous Cu, Ag, Mo, Pb and Zn are all coincident along strike and examination of the local geology and assumed faults suggests the mineralization is contained within the Table showing Banded Siliceous Volcanics and somewhat controlled by structure.

Anomalous zones are also apparent and interpreted in the northern portion of the soil grid. It is interpreted that the stronger anomalous zones of the southern Table showing area extend an additional 500m northeast. One of the notable areas in the northern portion of the soil grid that exhibits high anomalous assay results is the area directly over top of the Stock showing; however, due to steeper slopes and time constraints this was an area of limited coverage. Continued soil sampling coverage is strongly recommended.

The Cu-in-soil, Au-in-soil, and Ag-in-soil anomalies are concluded to have been derived from within the banded siliceous volcanics, however, the property is host to regionally mapped underlain Late Cretaceous intrusives (Figure 4); the same intrusives that are mineralized in the Serb deposit to the Southwest and the Davidson Molybdenum deposit to the northeast.

8.2 ROCKS

The results from the rock samples are significant in that the samples showed elevated anomalous copper and coincident anomalous silver and gold. These values are consistent with many of the historical findings of the early 1900's.

In particular, sample # 24, 28-30 and 32 all exhibited elevated copper values; 0.24%, 0.23%, 0.26%, 0.62% and 0.98% respectively. These sample sites are within the Banded Siliceous Volcanics of the southern table showing area and are coincident with the anomalous geochemical soil samples of the same area. Samples # 41-46 were taken from the Stock showing area and showed high grade elevated Cu% as well as elevated Ag. Samples at the stock showing were taken in a "+" sign pattern to best ascertain the possible distribution of copper mineralization across the showing. Samples # 41-46 returned assay values of copper 3.77% Cu, 1.51% Cu, 4.59% Cu, 5.16% Cu, 4.09% Cu and 3.71% Cu respectively.

Of note, regarding the two layers of geological data, is the coincident relationship between the high assay values for Cu-in-soil in the Stock showing area and the very high assay values for the associated rock samples. The values in both soil and in rock remain open in to the west. Strongly coincident Cu-in-soil and rock sample Cu% are numerous in the southern Table showing area and as example, soil sample #2006 assayed for Cu, 2040 ppm (0.20% equivalent), soil sample # 2005 assayed for Cu 114.2 ppm (0.01% equivalent) while the three rock samples from the same location, sample #28-30 assayed 0.23% Cu, 0.26% Cu and 0.62% Cu respectively. Refer to Geochemical maps in Appendix III for contoured soil imagery and Figure 5, sample location map, for rock sample/soil sample location.

Upon reviewing the 2012 collected data, analysis and reading of the historical assessment reports and Annual Minister of Mines Reports, interpretation of historical geophysical imagery and geological and geochemical maps, it is concluded that the compilation of data suggests a much larger picture of copper and silver mineralization than what has been known or interpreted in the past. The 2012 data confirms this larger picture interpretation.

The Total Field and the 1st Vertical Derivative images of the regional geophysical survey reported in Mapplace by the BCGS best illustrates the coincident nature of the zones of anomalous copper with the zones of interpreted structural offsetting and faulting and preferred magnetic lows. These zones of magnetic lows seem to go hand in hand with the alteration present around the areas of mineralization and lack of magnetite within the rock. Magnetite is abundantly present in the non-altered purple, lithic Telkwa andesite.

Historical exploration (geochemical, geological and geophysical) has been short, localized and successful. In the 1960's to 1970's the area of the Stock and Table showings has been shown to contain significant amounts of copper mineralization, elevated gold values and healthy silver values, but each exploration year has always left the area of discovery open in all directions. With the addition of the 2012 exploration coupled with historical data, a much larger mineralized corridor picture is developing; a picture that can easily suggest that the copper mineralization with its associated gold and silver extends as far as 800 – 1000 meters in all directions, from Leach Mountain to the west and both south and east of the Table Showing where the soil anomalies remain open. A complete geologically focused exploration program is strongly recommended to follow up the 2012 high grade assay results.

9. RECOMMENDATIONS

The results of the 2012 program were considerable and warrant continued work on the property and the following work is suggested:

- Additional staking is recommended to cover the areas where the magnetic lows and zones of alteration coincide (as intimated above in Interpretations and Conclusions)
- Continued soil sampling across the Stock and Table Minfile showing areas expanding South, West and East
- Complete regional mapping of the Stock Property claims
- Complete detailed mapping of the localized Stock and Table showings area
- Infill soil sampling of the 2012 soil grid
- Sampling, prospecting and mapping of the Leach Mountain area to the west of and along strike with the Stock Minfile showing
- Airborne geophysical survey over the Stock Property and including any new staked areas

An estimated \$500,000-\$800,000 exploration program is recommended for the Stock Property.

10. Statement of Costs

Exploration Work type	Comment	Days		Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*
Richard Beck	Sept 30 - Oct 3rd	4	\$700.00	\$2,800.00
Steve Oxtoby	Sept 30 - Oct 3rd	4	\$450.00	\$1,800.00
Thomas Oxtoby	Sept 30 - Oct 3rd	4	\$450.00	\$1,800.00
Chris King	Sept 30 - Oct 3rd	4	\$450.00	\$1,800.00
				\$8,200.00
Office Studies	List Personnel (note - Office only, do not include field days			
Pre field Prep		0.0	\$550.00	\$0.00
GIS		0.4	\$600.00	\$240.00
Expediting		0.0	\$550.00	\$0.00
Logistics		0.0	\$550.00	\$0.00
Report preparation		1.4	\$550.00	\$770.00
Report preparation		0.0	\$550.00	\$0.00
Other (specify)				
				\$1,010.00
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
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
Ground Exploration Surveys	Area in Hectares/List Personnel			
Geological mapping				
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			
Trenches	Define by length and width		\$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
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>		\$0.00	\$2,948.40
Rock	<i>laboratory costs</i>		\$0.00	\$884.00
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	
				\$3,832.40	\$3,832.40
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	
Transportation		No.	Rate	Subtotal	
Airfare			\$0.00	\$0.00	
Taxi			\$0.00	\$0.00	
truck rental		4.00	\$100.00	\$400.00	
kilometers		401.00	\$0.75	\$300.75	
ATV		4.00	\$150.00	\$600.00	
fuel			\$0.00	\$0.00	
Helicopter (hours)			\$0.00	\$0.00	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					\$1,300.75
					\$1,300.75
Accommodation & Food	Rates per day				
Hotel	Actual Cost			\$ -	
Camp	Room and Board Day rate	16.00	\$65.00	\$1,040.00	
Camp Supplies					
Samp Fuel	Propane				\$1,040.00
					\$1,040.00
Miscellaneous					
Standards				0	
Expenses Markup			\$0.00	\$2,344.22	
				\$2,344.22	\$2,344.22
Equipment Rentals					
Prospecting Kit	2 kits - 1 soil kit and 1 geo kit	7.00	\$35.00	\$245.00	
Field Gear (Specify)			\$0.00	\$0.00	
Other (Specify)					\$245.00
					\$245.00
Freight, rock samples					
Assay			\$0.00	\$0.00	
					\$0.00
					\$0.00
<i>TOTAL Expenditures</i>					\$17,972.37

11. REFERENCES

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12. STATEMENT OF QUALIFICATIONS

APPENDIX I: ASSAY CERTIFICATES



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **UTM Exploration Services Ltd.**

104-1165 Main Street

Box 5037

Smithers BC V0J 2N0 CANADA

Submitted By: Richard Beck

Receiving Lab: Canada-Smithers

Received: October 05, 2012

Report Date: October 29, 2012

Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000446.1

CLIENT JOB INFORMATION

Project: Stock

Shipment ID:

P.O. Number 39

Number of Samples: 25

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

SAMPLE DISPOSAL

RTRN-PLP Return

PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

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: UTM Exploration Services Ltd.
104-1165 Main Street
Box 5037
Smithers BC V0J 2N0
CANADA

CC:



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.



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

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104-1165 Main Street
Box 5037
Smithers BC V0J 2N0 CANADA

Project: Stock
Report Date: October 29, 2012

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000446.1

Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7TD	7TD	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Ag
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
	1	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	0.001	2
G1-SMI	Prep Blank	10	11	0.62	245	0.126	<1	0.98	0.079	0.49	<0.1	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2	
G1-SMI	Prep Blank	9	8	0.55	222	0.116	1	0.93	0.067	0.48	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	
24	Rock	5	8	0.19	87	0.038	4	0.27	0.067	0.10	0.2	<0.01	12.7	<0.1	<0.05	1	1.5	<0.2	
25	Rock	3	2	<0.01	9	0.004	<1	0.17	0.083	<0.01	<0.1	<0.01	1.5	<0.1	<0.05	<1	<0.5	<0.2	
26	Rock	6	31	3.68	121	0.093	6	3.09	0.025	0.10	<0.1	<0.01	17.7	<0.1	<0.05	14	<0.5	<0.2	
27	Rock	5	36	3.14	114	0.369	19	3.05	0.036	0.04	0.2	<0.01	22.5	<0.1	<0.05	15	<0.5	<0.2	
28	Rock	18	8	0.15	32	0.032	2	0.25	0.049	0.09	0.1	<0.01	9.0	<0.1	<0.05	2	<0.5	<0.2	
29	Rock	11	2	0.02	73	0.008	1	0.22	0.068	0.10	<0.1	0.01	2.4	<0.1	<0.05	<1	<0.5	<0.2	
30	Rock	10	6	0.02	63	0.004	<1	0.24	0.080	0.09	<0.1	0.11	2.5	<0.1	<0.05	1	0.8	<0.2	
31	Rock	5	2	0.02	62	0.014	1	0.21	0.050	0.08	0.1	<0.01	3.6	<0.1	<0.05	<1	<0.5	<0.2	
32	Rock	19	4	0.07	221	0.003	2	0.30	0.045	0.14	<0.1	0.06	5.6	<0.1	<0.05	1	<0.5	<0.2	
33	Rock	12	3	0.06	27	0.018	<1	0.15	0.079	0.02	<0.1	<0.01	3.1	<0.1	<0.05	<1	<0.5	<0.2	
34	Rock	3	8	0.03	45	0.030	2	0.30	0.077	0.07	<0.1	<0.01	7.3	<0.1	<0.05	<1	<0.5	<0.2	
35	Rock	11	2	<0.01	30	0.002	2	0.24	0.043	0.07	<0.1	<0.01	1.7	<0.1	<0.05	<1	<0.5	<0.2	
36	Rock	13	4	0.02	89	0.003	2	0.31	0.062	0.07	<0.1	<0.01	4.5	<0.1	<0.05	1	<0.5	<0.2	
37	Rock	9	4	0.03	49	0.005	5	0.49	0.027	0.17	<0.1	0.02	2.9	<0.1	<0.05	2	<0.5	<0.2	
38	Rock	10	4	<0.01	21	0.001	2	0.35	0.059	0.04	<0.1	<0.01	2.0	<0.1	<0.05	<1	<0.5	<0.2	
39	Rock	2	5	0.02	61	0.003	2	0.48	0.008	0.07	<0.1	<0.01	3.8	0.1	<0.05	2	<0.5	<0.2	
40	Rock	2	5	0.03	54	0.012	1	0.38	0.054	0.09	<0.1	0.04	4.8	0.7	<0.05	2	<0.5	<0.2	
41	Rock	7	7	0.02	13	0.003	1	0.24	0.087	0.02	<0.1	0.23	9.6	<0.1	0.32	<1	3.2	1.5 3.771 44	
42	Rock	8	3	0.02	10	0.001	<1	0.29	0.067	<0.01	<0.1	19.04	8.1	0.1	<0.05	<1	1.0	0.5 1.514 8	
43	Rock	27	2	0.35	25	0.005	<1	0.18	0.070	<0.01	<0.1	0.11	8.4	0.1	0.68	1	3.3	769.7 4.594 >300	
44	Rock	10	8	0.09	33	0.010	<1	0.33	0.081	0.01	0.2	0.21	12.8	<0.1	0.62	2	2.3	3.7 5.162 58	
45	Rock	12	8	0.18	60	0.027	1	0.39	0.047	0.05	0.2	0.07	14.4	<0.1	0.43	2	4.5	8.8 4.086 41	
46	Rock	7	2	2.49	53	0.004	<1	0.22	0.048	<0.01	<0.1	0.57	7.8	<0.1	0.65	1	1.6	<0.2 3.711 31	
47	Rock	9	7	0.24	31	0.020	<1	0.30	0.053	0.03	<0.1	0.06	13.5	<0.1	<0.05	2	<0.5	<0.2	
49	Rock	11	7	0.05	28	0.016	<1	0.34	0.078	0.05	<0.1	0.04	10.2	<0.1	<0.05	1	<0.5	0.4	



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Acme Analytical Laboratories (Vancouver) Ltd.

Client: UTM Exploration Services Ltd.

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Box 5037

Smithers BC V0J 2N0 CANADA

Project: Stock

Report Date: October 29, 2012

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Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000446.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30																	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P								
Unit	kg	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%															
MDL	0.01	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								
Pulp Duplicates																												
REP G1-SMI	QC	<0.1	3.9	13.3	53	<0.1	4.4	4.7	587	1.97	<0.5	0.6	5.1	52	<0.1	<0.1	0.2	38	0.51	0.074								
49	Rock	1.81	<0.1	164.3	2.5	79	0.7	14.5	4.7	563	1.94	6.1	1.5	0.6	3	<0.1	0.3	<0.1	47	0.16	0.042							
REP 49	QC	0.1	128.8	2.4	74	0.2	14.2	4.5	575	1.99	5.9	<0.5	0.6	3	<0.1	0.3	<0.1	48	0.15	0.040								
Reference Materials																												
STD CDN-ME-9	Standard																											
STD CDN-ME-14	Standard																											
STD DS9	Standard	13.4	110.1	126.2	314	1.9	42.1	7.8	579	2.34	24.3	121.0	6.7	70	2.3	5.0	6.5	39	0.74	0.080								
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								
STD CDN-ME-9 Expected																												
STD CDN-ME-14 Expected																												
BLK	Blank	<0.1	1.2	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<2	<0.01	<0.001								
BLK	Blank																											
Prep Wash																												
G1-SMI	Prep Blank	<0.01																										
G1-SMI	Prep Blank	<0.01	<0.1	2.6	42.8	74	0.3	3.5	4.3	543	1.83	0.6	<0.5	5.2	50	0.2	<0.1	0.4	33	0.41	0.073							
G1-SMI	Prep Blank	0.1	4.1	14.2	53	<0.1	4.6	4.7	600	1.96	<0.5	1.9	5.4	54	<0.1	<0.1	0.2	37	0.51	0.072								



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Smithers BC V0J 2N0 CANADA

Project: Stock

Report Date: October 29, 2012

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Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000446.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7TD	7TD	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Ag
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	
MDL	1	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	0.001	2
Pulp Duplicates																			
REP G1-SMI	QC	10	11	0.61	233	0.126	1	0.98	0.078	0.49	<0.1	<0.01	2.6	0.4	<0.05	5	<0.5	<0.2	
49	Rock	11	7	0.05	28	0.016	<1	0.34	0.078	0.05	<0.1	0.04	10.2	<0.1	<0.05	1	<0.5	0.4	
REP 49	QC	10	7	0.06	27	0.016	<1	0.34	0.080	0.05	<0.1	0.03	10.4	<0.1	<0.05	1	<0.5	<0.2	
Reference Materials																			
STD CDN-ME-9	Standard																0.662	4	
STD CDN-ME-14	Standard																1.296	47	
STD DS9	Standard	14	125	0.63	293	0.119	3	0.99	0.083	0.41	3.1	0.20	2.5	5.7	0.16	5	5.3	5.3	
STD DS9 Expected		13.3	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	
STD CDN-ME-9 Expected																	0.654		
STD CDN-ME-14 Expected																	1.221	45	
BLK	Blank	<1	<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																<0.001	<2	
Prep Wash																			
G1-SMI	Prep Blank																		
G1-SMI	Prep Blank	9	8	0.55	222	0.116	1	0.93	0.067	0.48	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2	
G1-SMI	Prep Blank	10	11	0.62	245	0.126	<1	0.98	0.079	0.49	<0.1	<0.01	2.5	0.3	<0.05	5	<0.5	<0.2	



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **UTM Exploration Services Ltd.**

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Smithers BC V0J 2N0 CANADA

Submitted By: Richard Beck

Receiving Lab: Canada-Smithers

Received: October 05, 2012

Report Date: October 19, 2012

Page: 1 of 7

CERTIFICATE OF ANALYSIS

SMI12000447.1

CLIENT JOB INFORMATION

Project: Stock
Shipment ID:
P.O. Number 39
Number of Samples: 162

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	162	Dry at 60C			SMI
SS80	162	Dry at 60C sieve 100g to -80 mesh			SMI
IDX1	162	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

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: UTM Exploration Services Ltd.
104-1165 Main Street
Box 5037
Smithers BC V0J 2N0
CANADA

CC:



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.



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104-1165 Main Street

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Smithers BC V0J 2N0 CANADA

Project: Stock

Report Date: October 19, 2012

Page: 3 of 7

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000447.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		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	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2031	Soil	26	0.57	214	0.010	<20	2.08	0.010	0.05	<0.1	0.04	9.7	0.1	0.06	5	0.5	<0.2
2032	Soil	20	0.44	64	0.010	<20	1.61	0.006	0.03	<0.1	0.04	1.1	<0.1	0.12	5	<0.5	<0.2
2033	Soil	38	0.67	163	0.011	<20	2.46	0.011	0.08	0.1	0.06	8.8	<0.1	0.06	7	0.8	<0.2
2034	Soil	10	0.13	52	0.003	<20	1.39	0.003	0.02	<0.1	0.05	0.2	0.1	0.05	5	<0.5	<0.2
2035	Soil	22	0.51	104	0.013	<20	1.77	0.006	0.03	<0.1	0.06	4.7	<0.1	<0.05	5	<0.5	<0.2
2036	Soil	20	0.39	53	0.017	<20	1.97	0.005	0.02	<0.1	0.06	2.1	<0.1	<0.05	4	<0.5	<0.2
2037	Soil	21	0.39	53	0.013	<20	1.93	0.006	0.02	<0.1	0.09	1.6	<0.1	<0.05	5	<0.5	<0.2
2038	Soil	14	0.30	46	0.009	<20	1.63	0.005	0.03	<0.1	0.06	0.6	<0.1	<0.05	6	<0.5	<0.2
2039	Soil	25	0.42	60	0.015	<20	1.95	0.005	0.03	<0.1	0.12	1.6	<0.1	<0.05	5	<0.5	<0.2
2040	Soil	22	0.50	80	0.010	<20	2.22	0.006	0.08	<0.1	0.04	1.7	0.1	0.10	7	<0.5	<0.2
2041	Soil	14	0.24	59	0.010	<20	1.68	0.008	0.05	<0.1	0.07	0.6	<0.1	<0.05	6	<0.5	<0.2
2042	Soil	28	0.62	190	0.011	<20	2.06	0.012	0.08	<0.1	0.04	10.9	<0.1	<0.05	5	0.6	<0.2
2043	Soil	15	0.36	70	0.011	<20	2.64	0.007	0.05	<0.1	0.06	2.5	<0.1	<0.05	5	0.5	<0.2
2044	Soil	18	0.41	56	0.017	<20	2.72	0.006	0.05	0.1	0.07	1.7	<0.1	0.11	6	0.9	<0.2
2045	Soil	17	0.44	102	0.024	<20	2.86	0.008	0.06	<0.1	0.06	2.9	<0.1	<0.05	6	<0.5	<0.2
2046	Soil	11	0.22	82	0.016	<20	0.92	0.008	0.05	<0.1	0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
2047	Soil	20	0.58	142	0.018	<20	1.79	0.019	0.07	<0.1	0.06	4.3	<0.1	0.07	5	<0.5	<0.2
2048	Soil	12	0.29	71	0.020	<20	1.51	0.009	0.04	<0.1	0.02	1.2	<0.1	0.05	6	<0.5	<0.2
2049	Soil	16	0.33	55	0.016	<20	2.01	0.006	0.04	<0.1	0.06	1.2	<0.1	<0.05	6	<0.5	<0.2
2050	Soil	20	0.39	77	0.010	<20	2.21	0.007	0.07	<0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
2051	Soil	21	0.46	64	0.019	<20	2.61	0.008	0.04	<0.1	0.06	1.8	<0.1	0.08	7	<0.5	<0.2
2052	Soil	21	0.39	55	0.014	<20	2.49	0.006	0.03	<0.1	0.07	1.2	<0.1	<0.05	5	<0.5	<0.2
2053	Soil	21	0.50	76	0.022	<20	1.71	0.007	0.04	<0.1	0.07	4.0	<0.1	<0.05	4	<0.5	<0.2
2054	Soil	20	0.51	74	0.020	<20	2.56	0.008	0.06	<0.1	0.07	3.7	<0.1	<0.05	6	<0.5	<0.2
2055	Soil	21	0.45	81	0.010	<20	2.75	0.006	0.04	<0.1	0.07	1.7	<0.1	<0.05	6	<0.5	<0.2
2056	Soil	25	0.44	73	0.021	<20	2.79	0.007	0.05	<0.1	0.14	2.9	<0.1	<0.05	6	<0.5	<0.2
2057	Soil	20	0.45	63	0.016	<20	2.16	0.009	0.06	<0.1	0.07	1.8	<0.1	<0.05	6	0.5	<0.2
2058	Soil	16	0.28	80	0.015	<20	1.98	0.008	0.04	<0.1	0.06	1.1	<0.1	<0.05	7	<0.5	<0.2
2059	Soil	21	0.43	76	0.013	<20	3.00	0.007	0.05	<0.1	0.11	2.7	<0.1	<0.05	5	<0.5	<0.2
2060	Soil	20	0.48	157	0.021	<20	1.49	0.011	0.03	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2

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Project: Stock
Report Date: October 19, 2012

Page: 4 of 7 Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000447.1

Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
	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	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
2061	Soil	24	0.59	108	0.010	<20	2.37	0.010	0.06	<0.1	0.04	2.5	0.1	<0.05	8	<0.5	<0.2
2062	Soil	23	0.56	84	0.015	<20	2.45	0.007	0.04	<0.1	0.05	2.6	0.1	0.09	6	<0.5	<0.2
2063	Soil	21	0.51	56	0.018	<20	2.09	0.006	0.04	<0.1	0.05	2.5	<0.1	0.10	5	<0.5	<0.2
2064	Soil	18	0.41	71	0.021	<20	2.30	0.007	0.04	<0.1	0.05	2.4	<0.1	<0.05	6	<0.5	<0.2
2065	Soil	18	0.41	64	0.028	<20	1.90	0.008	0.04	<0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
2101	Soil	17	0.34	74	0.023	<20	3.02	0.012	0.05	<0.1	0.18	1.5	<0.1	0.11	7	0.6	<0.2
2102	Soil	19	0.44	150	0.016	<20	2.19	0.012	0.06	<0.1	0.06	1.6	<0.1	0.06	7	<0.5	<0.2
2103	Soil	22	0.49	81	0.018	<20	2.40	0.007	0.05	<0.1	0.06	1.9	<0.1	<0.05	6	<0.5	<0.2
2104	Soil	18	0.34	62	0.016	<20	1.84	0.006	0.03	<0.1	0.07	1.6	<0.1	<0.05	5	<0.5	<0.2
2105	Soil	21	0.39	51	0.010	<20	2.31	0.005	0.03	<0.1	0.09	1.0	<0.1	<0.05	5	<0.5	<0.2
2106	Soil	21	0.49	115	0.024	<20	1.87	0.011	0.03	<0.1	0.11	4.4	<0.1	<0.05	5	<0.5	<0.2
2107	Soil	12	0.15	94	0.006	<20	1.49	0.006	0.03	<0.1	0.06	0.4	<0.1	<0.05	6	<0.5	<0.2
2108	Soil	21	0.62	103	0.038	<20	2.40	0.008	0.05	<0.1	0.06	6.3	<0.1	<0.05	6	0.7	<0.2
2109	Soil	21	0.20	150	0.007	<20	3.63	0.007	0.03	<0.1	0.20	0.6	<0.1	0.09	5	1.1	<0.2
2110	Soil	22	0.67	156	0.016	<20	2.59	0.010	0.06	<0.1	0.07	2.8	<0.1	<0.05	7	<0.5	<0.2
2111	Soil	17	0.40	100	0.011	<20	2.14	0.006	0.05	<0.1	0.08	1.1	0.1	<0.05	7	<0.5	<0.2
2112	Soil	23	0.55	150	0.012	<20	3.66	0.010	0.07	<0.1	0.11	1.9	0.1	<0.05	8	0.6	<0.2
2113	Soil	21	0.51	68	0.027	<20	2.68	0.006	0.04	<0.1	0.05	3.7	<0.1	<0.05	6	<0.5	<0.2
2114	Soil	19	0.41	75	0.015	<20	1.97	0.006	0.04	<0.1	0.10	1.3	<0.1	<0.05	6	<0.5	<0.2
2115	Soil	20	0.42	59	0.016	<20	2.63	0.006	0.04	<0.1	0.08	1.3	<0.1	<0.05	6	<0.5	<0.2
2116	Soil	19	0.51	88	0.019	<20	2.67	0.004	0.07	<0.1	0.08	1.9	<0.1	<0.05	10	<0.5	<0.2
2117	Soil	19	0.46	96	0.015	<20	2.48	0.008	0.07	<0.1	0.06	1.5	<0.1	<0.05	9	<0.5	<0.2
2118	Soil	25	0.78	97	0.021	<20	3.86	0.006	0.07	<0.1	0.09	3.3	<0.1	<0.05	10	<0.5	<0.2
2119	Soil	16	0.41	94	0.009	<20	1.69	0.009	0.09	<0.1	0.11	1.8	<0.1	0.08	6	<0.5	<0.2
2120	Soil	12	0.21	45	0.013	<20	1.96	0.006	0.03	<0.1	0.07	0.8	<0.1	0.07	8	0.8	<0.2
2121	Soil	14	0.37	94	0.010	<20	1.79	0.008	0.04	<0.1	0.03	1.1	<0.1	<0.05	7	<0.5	<0.2
2122	Soil	19	0.45	95	0.012	<20	1.70	0.008	0.05	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
2123	Soil	15	0.35	45	0.009	<20	1.76	0.006	0.04	<0.1	0.06	0.6	<0.1	0.05	6	<0.5	<0.2
2124	Soil	22	0.57	127	0.008	<20	2.09	0.008	0.06	<0.1	0.04	1.5	<0.1	0.05	7	<0.5	<0.2
2125	Soil	22	0.38	54	0.010	<20	2.28	0.006	0.03	<0.1	0.09	0.9	<0.1	0.09	6	0.5	<0.2

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Page: 5 of 7

Part: 2 of 1

CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		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
MDL		1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
2126	Soil	23	0.49	55	0.011	<20	2.47	0.006	0.04	<0.1	0.06	1.5	<0.1	<0.05	6	0.7	<0.2
2127	Soil	23	0.46	55	0.012	<20	2.14	0.007	0.05	<0.1	0.06	1.3	<0.1	<0.05	7	0.5	<0.2
2128	Soil	30	0.99	230	0.006	<20	3.23	0.012	0.10	<0.1	0.02	8.5	0.2	<0.05	10	<0.5	<0.2
2129	Soil	15	0.28	92	0.013	<20	1.58	0.008	0.05	<0.1	0.05	1.0	<0.1	0.05	7	<0.5	<0.2
2130	Soil	16	0.41	93	0.010	<20	1.60	0.009	0.04	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
2131	Soil	16	0.28	58	0.016	<20	1.93	0.007	0.04	<0.1	0.05	1.4	0.1	<0.05	7	<0.5	<0.2
2132	Soil	19	0.40	65	0.016	<20	2.20	0.008	0.04	<0.1	0.08	1.6	<0.1	<0.05	5	<0.5	<0.2
2133	Soil	15	0.44	98	0.022	<20	2.06	0.010	0.05	<0.1	0.06	4.2	<0.1	<0.05	5	<0.5	<0.2
2134	Soil	18	0.46	52	0.020	<20	2.57	0.007	0.05	<0.1	0.06	1.7	<0.1	0.08	6	0.8	<0.2
2135	Soil	18	0.40	56	0.029	<20	1.84	0.006	0.07	<0.1	0.05	2.2	<0.1	<0.05	8	<0.5	<0.2
2136	Soil	19	0.54	107	0.012	<20	2.41	0.008	0.09	<0.1	0.03	2.6	0.1	0.05	8	<0.5	<0.2
2137	Soil	21	0.45	105	0.015	<20	2.50	0.009	0.05	<0.1	0.07	2.2	<0.1	<0.05	6	<0.5	<0.2
2138	Soil	21	0.48	70	0.019	<20	3.09	0.008	0.04	0.1	0.10	1.8	<0.1	0.05	6	0.6	<0.2
2139	Soil	21	0.43	68	0.018	<20	3.02	0.008	0.06	<0.1	0.15	2.3	<0.1	<0.05	6	<0.5	<0.2
2140	Soil	20	0.53	83	0.024	<20	3.21	0.009	0.08	<0.1	0.10	3.9	<0.1	<0.05	5	<0.5	<0.2
2141	Soil	19	0.50	71	0.014	<20	2.98	0.008	0.06	<0.1	0.09	1.5	<0.1	<0.05	9	0.6	<0.2
2142	Soil	20	0.45	45	0.016	<20	2.05	0.006	0.03	<0.1	0.07	1.6	<0.1	<0.05	5	<0.5	<0.2
2143	Soil	21	0.46	63	0.021	<20	2.57	0.008	0.04	<0.1	0.09	2.6	<0.1	<0.05	6	<0.5	<0.2
2144	Soil	21	0.52	83	0.023	<20	2.74	0.008	0.06	<0.1	0.08	3.1	<0.1	<0.05	7	<0.5	<0.2
2145	Soil	15	0.37	51	0.022	<20	2.34	0.007	0.06	<0.1	0.06	2.0	<0.1	<0.05	8	<0.5	<0.2
2146	Soil	18	0.52	253	0.010	<20	3.30	0.013	0.08	<0.1	0.07	4.2	<0.1	<0.05	5	0.7	<0.2
2147	Soil	14	0.29	49	0.024	<20	2.89	0.007	0.03	0.1	0.10	2.5	<0.1	<0.05	5	<0.5	<0.2
2148	Soil	12	0.24	44	0.018	<20	1.78	0.007	0.05	<0.1	0.06	1.1	<0.1	<0.05	9	0.5	<0.2
2149	Soil	18	0.33	66	0.023	<20	3.30	0.008	0.03	0.1	0.11	2.0	<0.1	<0.05	6	0.7	<0.2
2150	Soil	5	0.05	43	0.009	<20	0.85	0.008	0.03	<0.1	0.03	0.3	<0.1	<0.05	5	<0.5	<0.2
2151	Soil	14	0.26	62	0.021	<20	1.82	0.008	0.05	<0.1	0.07	1.3	<0.1	<0.05	6	<0.5	<0.2
2152	Soil	31	0.26	164	0.010	<20	1.34	0.005	0.08	<0.1	0.06	8.5	0.4	<0.05	4	<0.5	<0.2
2153	Soil	16	0.43	68	0.039	<20	2.29	0.010	0.05	<0.1	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
2154	Soil	23	0.52	158	0.012	<20	3.23	0.008	0.10	<0.1	0.08	1.4	0.2	0.05	10	0.8	<0.2
2155	Soil	22	0.49	139	0.028	<20	1.65	0.012	0.06	<0.1	0.04	7.2	<0.1	<0.05	5	0.6	<0.2

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Page: 6 of 7

Part: 2 of 1

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Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	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	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
2156	Soil	14	0.20	56	0.020	<20	2.76	0.008	0.03	0.1	0.09	1.9	<0.1	<0.05	6	0.7	<0.2
2157	Soil	18	0.37	81	0.021	<20	1.86	0.008	0.05	<0.1	0.06	2.9	<0.1	<0.05	6	0.7	<0.2
2158	Soil	20	0.29	74	0.017	<20	1.22	0.011	0.04	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
2159	Soil	13	0.24	39	0.015	<20	2.17	0.010	0.04	0.1	0.08	2.0	<0.1	<0.05	4	0.7	<0.2
2160	Soil	13	0.29	62	0.013	<20	2.62	0.007	0.04	<0.1	0.12	3.0	<0.1	<0.05	4	<0.5	<0.2
2161	Soil	13	0.22	56	0.014	<20	2.68	0.007	0.04	0.1	0.10	2.7	<0.1	<0.05	5	0.7	<0.2
2162	Soil	13	0.17	53	0.016	<20	2.96	0.009	0.05	0.2	0.12	0.8	0.1	<0.05	11	0.8	<0.2
2163	Soil	29	0.51	51	0.008	<20	3.54	0.007	0.05	<0.1	0.11	1.5	0.2	<0.05	8	0.6	<0.2
2164	Soil	13	0.29	68	0.020	<20	2.27	0.011	0.07	<0.1	0.07	3.5	<0.1	<0.05	4	0.8	<0.2
2165	Soil	9	0.22	64	0.010	<20	1.31	0.010	0.04	<0.1	0.05	0.9	<0.1	<0.05	6	<0.5	<0.2
2201	Soil	20	0.67	117	0.059	<20	2.70	0.010	0.09	<0.1	0.05	8.4	<0.1	<0.05	6	<0.5	<0.2
2202	Soil	17	0.43	75	0.016	<20	2.94	0.008	0.05	<0.1	0.10	3.0	<0.1	<0.05	6	0.5	<0.2
2203	Soil	19	0.34	47	0.025	<20	2.08	0.007	0.04	<0.1	0.04	1.4	<0.1	<0.05	8	0.7	<0.2
2204	Soil	19	0.44	69	0.026	<20	2.14	0.007	0.05	<0.1	0.06	3.2	<0.1	<0.05	8	<0.5	<0.2
2205	Soil	21	0.63	259	0.021	<20	2.34	0.021	0.08	<0.1	0.03	6.7	0.2	<0.05	7	0.6	<0.2
2206	Soil	30	0.77	291	0.011	<20	3.51	0.013	0.09	<0.1	0.11	8.2	0.2	<0.05	10	<0.5	<0.2
2207	Soil	22	0.64	176	0.024	<20	2.93	0.009	0.08	<0.1	0.08	5.3	0.1	<0.05	8	<0.5	<0.2
2208	Soil	22	0.53	94	0.024	<20	3.86	0.009	0.05	<0.1	0.12	4.1	<0.1	<0.05	7	<0.5	<0.2
2209	Soil	24	0.70	142	0.036	<20	2.63	0.013	0.07	<0.1	0.07	7.8	<0.1	<0.05	6	<0.5	<0.2
2210	Soil	22	0.55	80	0.027	<20	2.55	0.008	0.06	<0.1	0.06	3.4	<0.1	<0.05	7	0.5	<0.2
2211	Soil	34	1.07	262	0.008	<20	5.61	0.011	0.16	<0.1	0.12	6.7	0.2	<0.05	12	1.0	<0.2
2212	Soil	19	0.40	58	0.016	<20	2.53	0.007	0.05	<0.1	0.08	1.7	<0.1	<0.05	8	0.5	<0.2
2213	Soil	24	0.67	221	0.046	<20	2.16	0.015	0.09	<0.1	0.07	10.7	<0.1	<0.05	6	0.6	<0.2
2214	Soil	26	0.80	95	0.017	<20	3.23	0.007	0.10	<0.1	0.08	3.8	0.1	<0.05	11	0.6	<0.2
2215	Soil	26	0.66	83	0.016	<20	2.32	0.005	0.04	<0.1	0.09	4.6	<0.1	<0.05	6	<0.5	<0.2
2216	Soil	19	0.45	83	0.023	<20	2.39	0.006	0.06	<0.1	0.08	2.3	<0.1	<0.05	7	<0.5	<0.2
2218	Soil	22	0.50	91	0.022	<20	2.64	0.006	0.04	<0.1	0.07	3.1	<0.1	<0.05	6	<0.5	<0.2
2219	Soil	14	0.29	59	0.027	<20	0.96	0.009	0.06	<0.1	0.02	9.1	<0.1	<0.05	3	<0.5	<0.2
2220	Soil	15	0.18	49	0.011	<20	2.19	0.006	0.03	0.1	0.07	0.9	<0.1	<0.05	7	0.5	<0.2
2221	Soil	12	0.25	66	0.009	<20	1.45	0.006	0.04	<0.1	0.04	0.7	<0.1	<0.05	5	<0.5	<0.2

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Page: 7 of 7 Part: 1 of 1

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Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	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	%	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	0.1	0.1	0.1	0.1	2	0.01	0.001	1	
2222	Soil	0.8	21.2	5.8	93	<0.1	10.6	9.5	820	3.25	25.6	1.4	0.6	7	0.1	0.4	<0.1	56	0.07	0.113	5
2223	Soil	0.5	12.6	6.4	60	0.1	10.7	6.9	568	3.03	16.6	<0.5	0.1	7	<0.1	0.2	<0.1	59	0.04	0.078	6
2224	Soil	0.5	31.4	7.4	87	<0.1	13.7	11.1	909	3.70	30.0	1.2	0.6	7	0.1	0.4	<0.1	60	0.10	0.064	6
2225	Soil	0.2	11.7	7.7	65	<0.1	14.6	8.3	377	2.26	7.8	0.6	0.8	11	<0.1	0.2	0.2	49	0.14	0.065	7
2226	Soil	0.7	8.1	6.7	38	0.1	5.2	2.9	336	1.88	11.6	1.1	<0.1	8	0.1	0.2	0.2	37	0.10	0.127	5
2227	Soil	0.7	9.9	6.5	49	0.1	6.9	4.5	344	2.48	19.4	<0.5	0.1	7	0.1	0.2	0.1	47	0.04	0.073	5
2228	Soil	0.6	19.9	8.8	78	<0.1	9.5	8.6	1306	3.16	28.5	<0.5	0.2	7	<0.1	0.2	0.1	59	0.03	0.112	6
2229	Soil	0.6	23.3	8.8	115	0.6	17.9	11.9	1211	4.06	24.7	1.2	0.3	11	0.1	0.1	0.2	72	0.23	0.276	15
2230	Soil	0.7	20.5	5.6	62	0.2	9.8	6.5	467	3.07	22.7	1.1	0.2	9	0.1	0.3	<0.1	50	0.08	0.108	7
2231	Soil	0.6	13.0	6.7	73	<0.1	9.4	7.1	549	3.21	25.2	0.8	<0.1	7	0.2	0.2	<0.1	59	0.03	0.064	6
2232	Soil	0.9	11.7	7.3	52	0.1	7.7	5.0	439	3.80	28.8	0.7	0.1	7	0.1	0.3	<0.1	59	0.04	0.169	5
2233	Soil	0.9	30.3	5.9	99	<0.1	7.1	5.5	440	2.55	13.5	<0.5	<0.1	4	0.2	0.2	<0.1	56	0.09	0.061	5



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Project: Stock

Report Date: October 19, 2012

Page: 7 of 7

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000447.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
		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	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
2222	Soil		18	0.37	76	0.014	<20	3.16	0.008	0.05	0.1	0.09	3.5	<0.1	<0.05	5	<0.5	<0.2
2223	Soil		16	0.36	54	0.015	<20	1.90	0.007	0.04	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
2224	Soil		20	0.44	95	0.013	<20	2.22	0.008	0.06	<0.1	0.06	4.7	<0.1	<0.05	5	<0.5	<0.2
2225	Soil		16	0.50	58	0.029	<20	1.65	0.008	0.04	<0.1	0.05	4.2	<0.1	<0.05	4	<0.5	<0.2
2226	Soil		14	0.16	54	0.009	<20	1.58	0.008	0.05	0.2	0.06	0.5	<0.1	<0.05	6	<0.5	<0.2
2227	Soil		13	0.26	67	0.011	<20	1.87	0.006	0.05	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
2228	Soil		15	0.34	66	0.021	<20	1.69	0.005	0.07	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
2229	Soil		30	0.61	201	0.006	<20	3.53	0.007	0.15	<0.1	0.06	6.3	0.3	0.10	10	0.7	<0.2
2230	Soil		15	0.35	74	0.015	<20	2.47	0.007	0.04	<0.1	0.23	2.5	<0.1	<0.05	4	<0.5	<0.2
2231	Soil		17	0.36	75	0.014	<20	2.10	0.007	0.05	<0.1	0.04	1.9	<0.1	<0.05	6	<0.5	<0.2
2232	Soil		18	0.25	55	0.015	<20	1.85	0.005	0.03	<0.1	0.09	1.3	<0.1	<0.05	6	<0.5	<0.2
2233	Soil		12	0.18	33	0.005	<20	0.92	0.007	0.03	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2



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Page:

1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000447.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	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	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
2030	Soil	19	0.41	64	0.008	<20	2.73	0.005	0.05	<0.1	0.07	1.0	<0.1	0.06	7	0.8	<0.2
REP 2030	QC	19	0.41	62	0.008	<20	2.67	0.005	0.05	<0.1	0.08	1.0	<0.1	0.10	7	0.9	<0.2
2053	Soil	21	0.50	76	0.022	<20	1.71	0.007	0.04	<0.1	0.07	4.0	<0.1	<0.05	4	<0.5	<0.2
REP 2053	QC	21	0.50	77	0.022	<20	1.73	0.008	0.03	<0.1	0.05	4.1	<0.1	<0.05	4	<0.5	<0.2
2124	Soil	22	0.57	127	0.008	<20	2.09	0.008	0.06	<0.1	0.04	1.5	<0.1	0.05	7	<0.5	<0.2
REP 2124	QC	22	0.57	124	0.007	<20	2.03	0.008	0.06	<0.1	0.05	1.5	<0.1	0.06	6	0.6	<0.2
2160	Soil	13	0.29	62	0.013	<20	2.62	0.007	0.04	<0.1	0.12	3.0	<0.1	<0.05	4	<0.5	<0.2
REP 2160	QC	13	0.29	63	0.012	<20	2.81	0.007	0.04	0.1	0.11	2.8	<0.1	<0.05	4	<0.5	<0.2
2232	Soil	18	0.25	55	0.015	<20	1.85	0.005	0.03	<0.1	0.09	1.3	<0.1	<0.05	6	<0.5	<0.2
REP 2232	QC	17	0.24	53	0.015	<20	1.73	0.005	0.03	<0.1	0.09	1.3	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	117	0.60	327	0.127	<20	0.90	0.089	0.40	2.7	0.19	3.0	5.4	0.12	5	5.3	4.6
STD DS9	Standard	118	0.61	304	0.106	<20	0.86	0.077	0.37	2.4	0.22	2.1	5.3	0.12	5	5.4	5.0
STD DS9	Standard	114	0.58	306	0.105	<20	0.86	0.075	0.35	2.6	0.22	2.1	5.0	0.18	4	4.9	5.1
STD DS9	Standard	116	0.62	324	0.110	<20	0.92	0.086	0.40	2.7	0.21	2.4	5.4	0.15	4	5.1	4.8
STD DS9	Standard	120	0.61	329	0.108	<20	0.89	0.082	0.39	2.9	0.19	2.3	5.3	0.13	5	5.5	5.3
STD OREAS45CA	Standard	604	0.16	155	0.163	<20	3.39	0.014	0.07	<0.1	0.02	44.1	<0.1	<0.05	18	0.6	<0.2
STD OREAS45CA	Standard	653	0.13	145	0.124	<20	3.05	0.012	0.06	<0.1	0.02	37.9	<0.1	<0.05	16	<0.5	<0.2
STD OREAS45CA	Standard	646	0.13	145	0.126	<20	2.87	0.010	0.06	<0.1	0.03	38.5	0.1	<0.05	16	<0.5	<0.2
STD OREAS45CA	Standard	704	0.15	159	0.134	<20	3.50	0.013	0.07	<0.1	0.03	44.6	<0.1	<0.05	18	0.8	<0.2
STD OREAS45CA	Standard	712	0.12	158	0.122	<20	3.10	0.010	0.06	<0.1	0.03	37.6	<0.1	<0.05	17	<0.5	<0.2
STD DS9 Expected		121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45CA Expected		709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	39.7	0.07	0.021	18.4	0.5	
BLK	Blank	<1	<0.01	<1	<0.001	<20	<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	<20	<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	<20	<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	<20	<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	<20	<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

METHOD SPECIFICATIONS

GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes:	1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07
Sample Digestion:	HNO₃-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.

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

Limitations:

Au solubility can be limited by refractory and graphitic samples.

METHOD SPECIFICATIONS

GROUP 7TD AND 7TX – ASSAY FOUR-ACID DIGESTION

Package Codes:	7TD1, 7TD2, 7TD3, 7TX1
Sample Digestion:	HF-HNO ₃ -HClO ₄ acid digestion
Instrumentation Method:	ICP-ES (7TD, 7TX), ICP-MS (7TX)
Applicability:	Rock and Drill Core

Method Description:

Prepared sample is digested to complete dryness with an acid solution of (2:2:1:1) H₂O-HF-HClO₄-HNO₃. 50% HCl is added to the residue and heated using a mixing hot block. After cooling the solutions are made up to volume with dilute HCl in class A volumetric flasks. Sample splits of 0.5g or 0.1g can be analyzed. Very high-grade samples are reweighed at lower weight to accommodate analysis up to 100% upper limit.

Element	Group 7TD Detection	Group 7TX Detection
Ag	2 g/t	0.5 ppm
Al*	0.01%	0.01%
As	0.02%	5 ppm
Ba*	-	5 ppm
Be	-	5 ppm
Bi	0.01%	0.5 ppm
Ca*	0.01%	0.01%
Cd	0.001%	0.5 ppm
Ce	-	5 ppm
Co	0.001%	1 ppm
Cr*	0.001%	1 ppm
Cu	0.001%	0.5 ppm
Fe*	0.01%	0.01%
Hf*	-	0.5 ppm
K	0.01%	0.01%
La	-	0.5 ppm
Li	-	0.5 ppm
Mg	0.01%	0.01%
Mn*	0.01%	5 ppm
Mo	0.001%	0.5 ppm
Na	0.01%	0.01%
Nb*	-	0.5 ppm
Ni	0.001%	0.5 ppm
P	0.01%	0.01%
Pb	0.02%	0.5 ppm



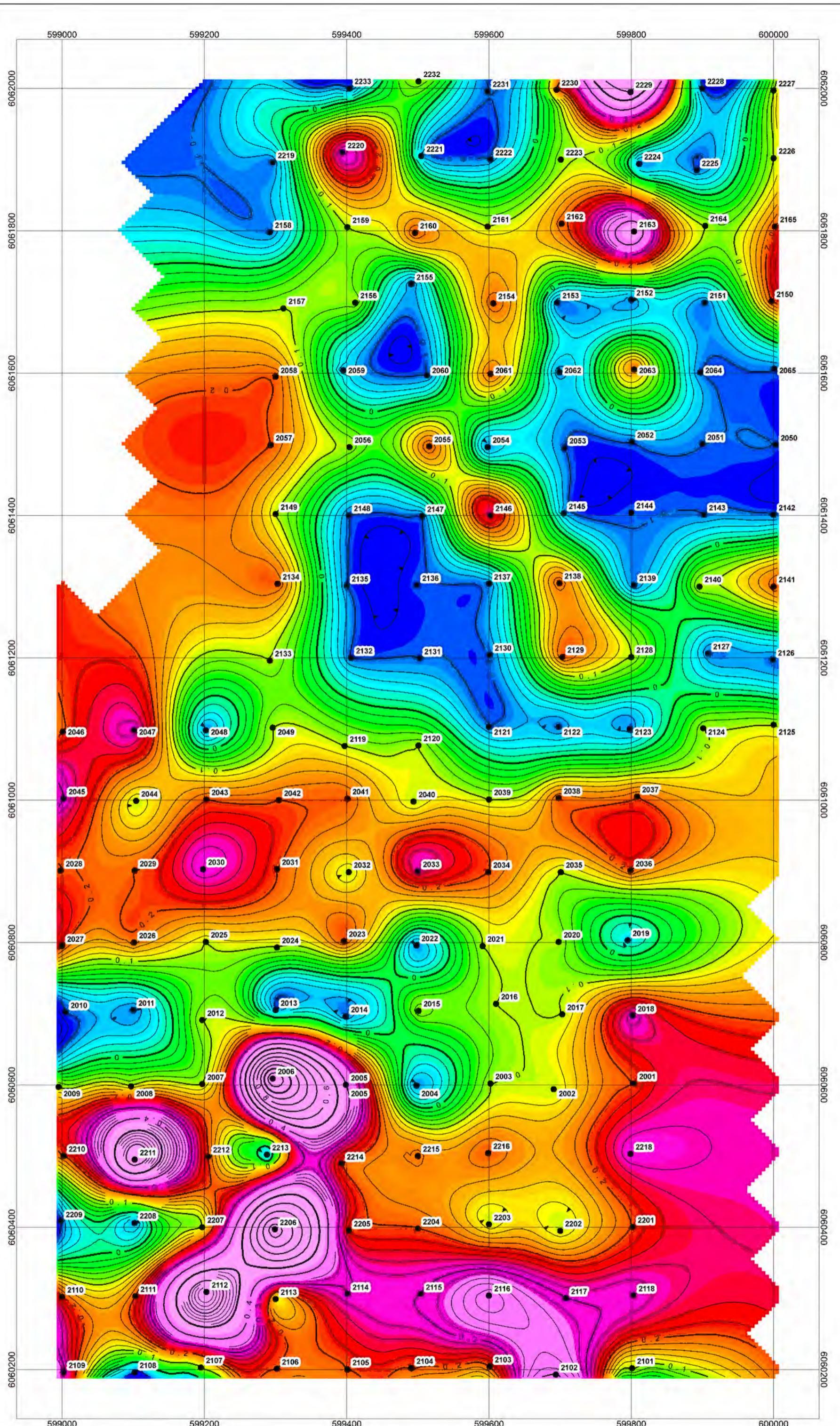
Element	Group 7TD Detection	Group 7TX Detection
Rb	-	0.5 ppm
S*	0.05%	0.05%
Sb	0.01%	0.5 ppm
Sc	-	1 ppm
Sn*	-	0.5 ppm
Sr	0.01%	5 ppm
Ta*	-	0.5 ppm
Th	-	0.5 ppm
Ti*	-	0.001%
U	-	0.5 ppm
V	-	10 ppm
W*	0.01%	0.5 ppm
Y	-	0.5 ppm
Zn	0.01%	5 ppm
Zr*	-	0.5 ppm

Limitations:

*This digestion is only partial for some Cr and Ba minerals and some oxides of Al, Fe, Hf, Mn, Nb, S, Sn, Ta, Ti, W and Zr if refractory minerals are present.

†Volatilization may occur during fuming resulting in some loss of As and Sb.

APPENDIX III: GEOCHEMICAL MAPS



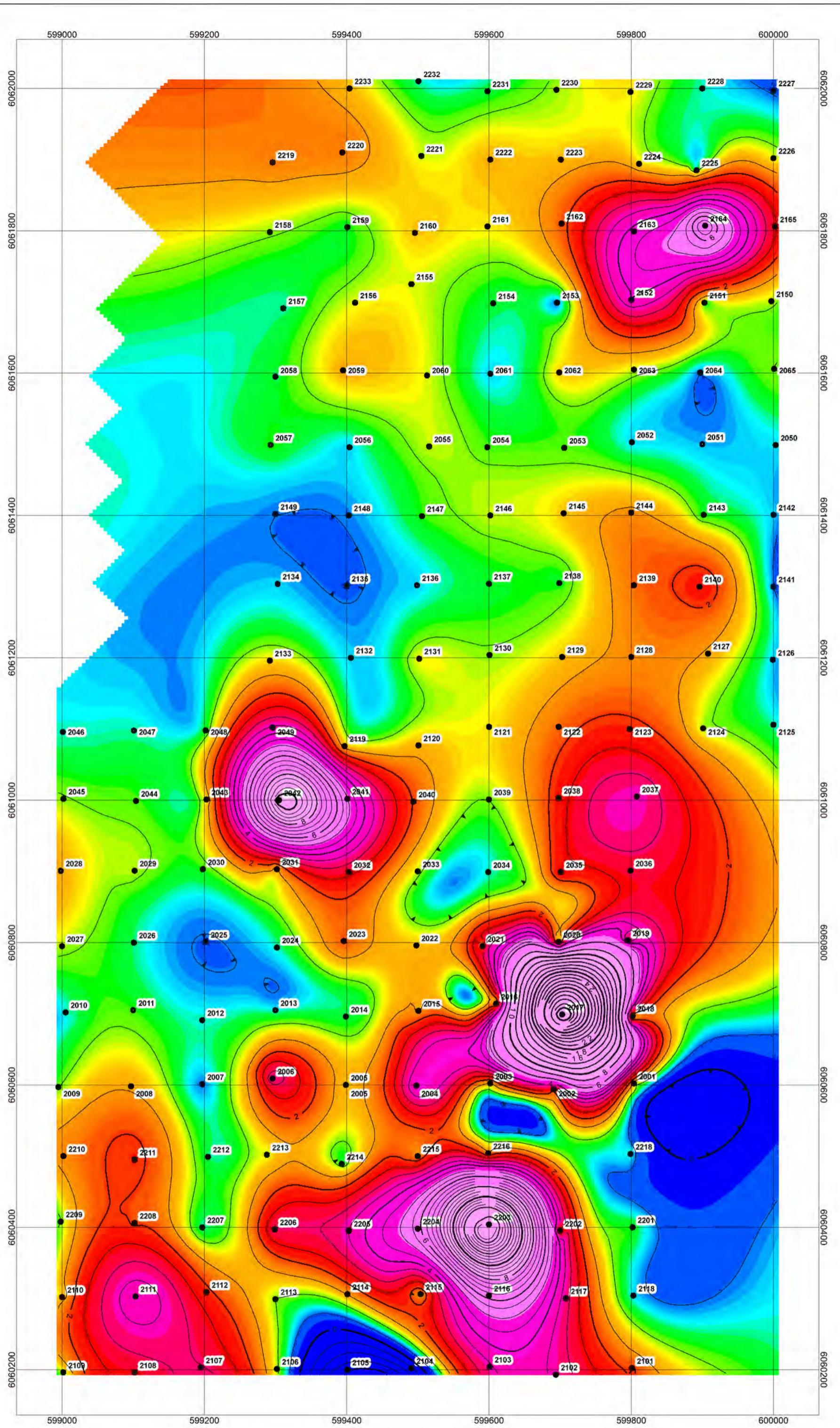
Stock Property 2012

Soil Assay Results

Ag ppm

50 0 50 100 150
(meters)

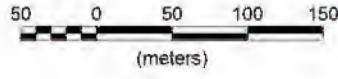


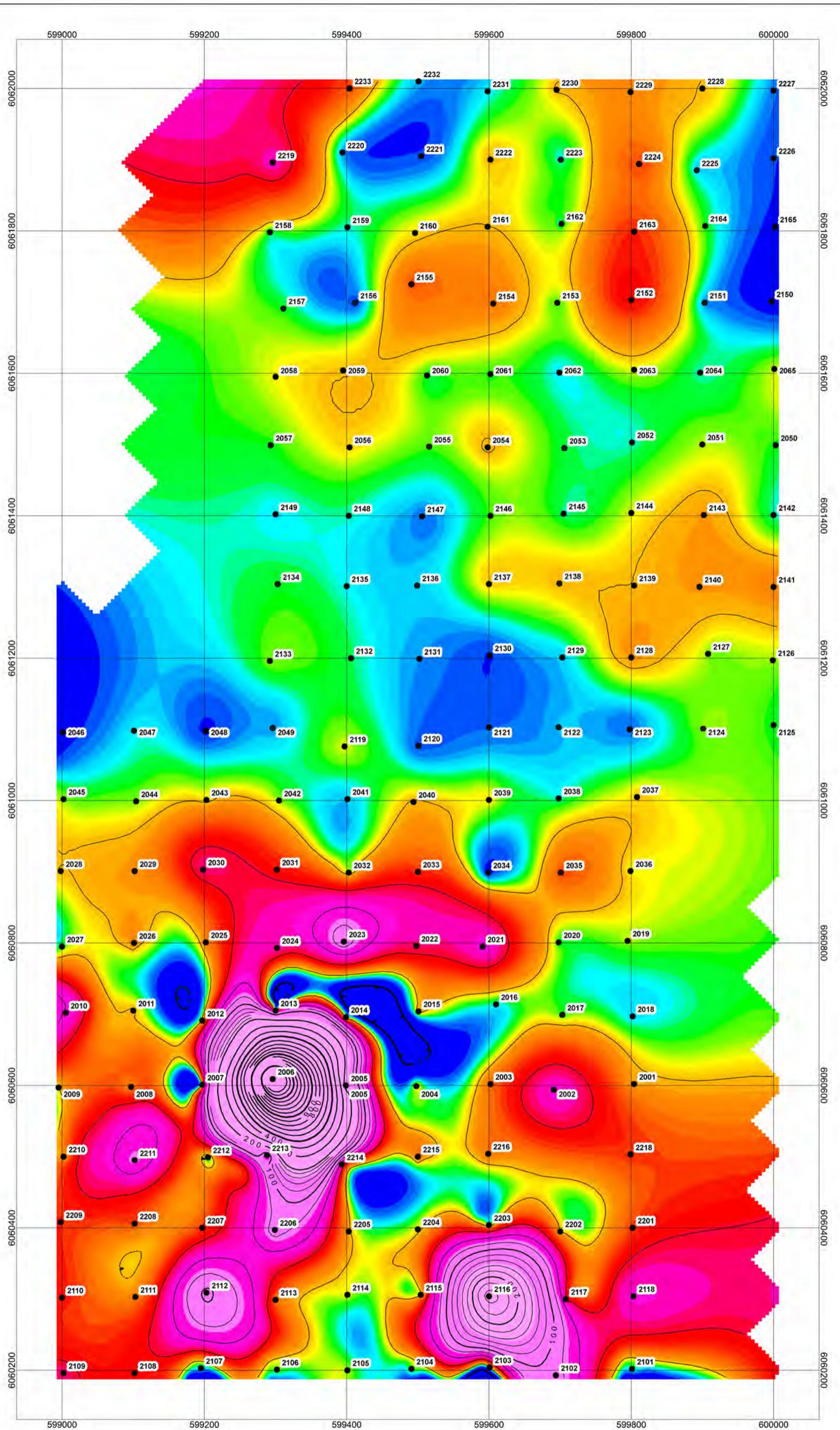


Stock Property 2012

Soil Assay Results

Au ppb



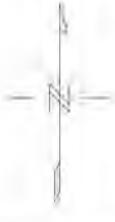


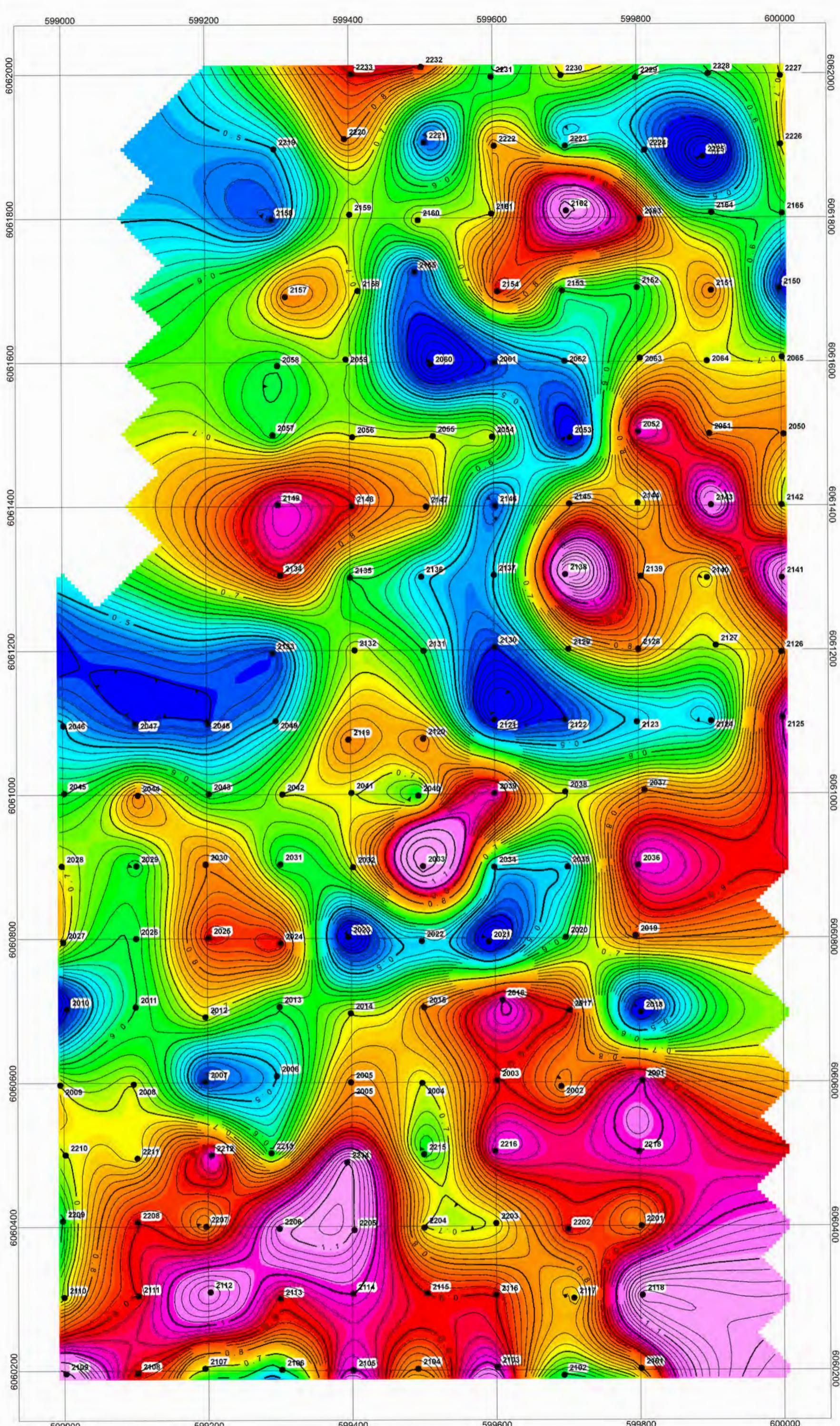
Stock Property 2012

Soil Assay Results

Cu ppm

50 0 50 100 150
(meters)

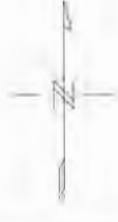
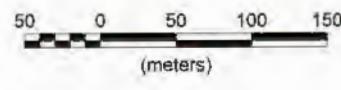


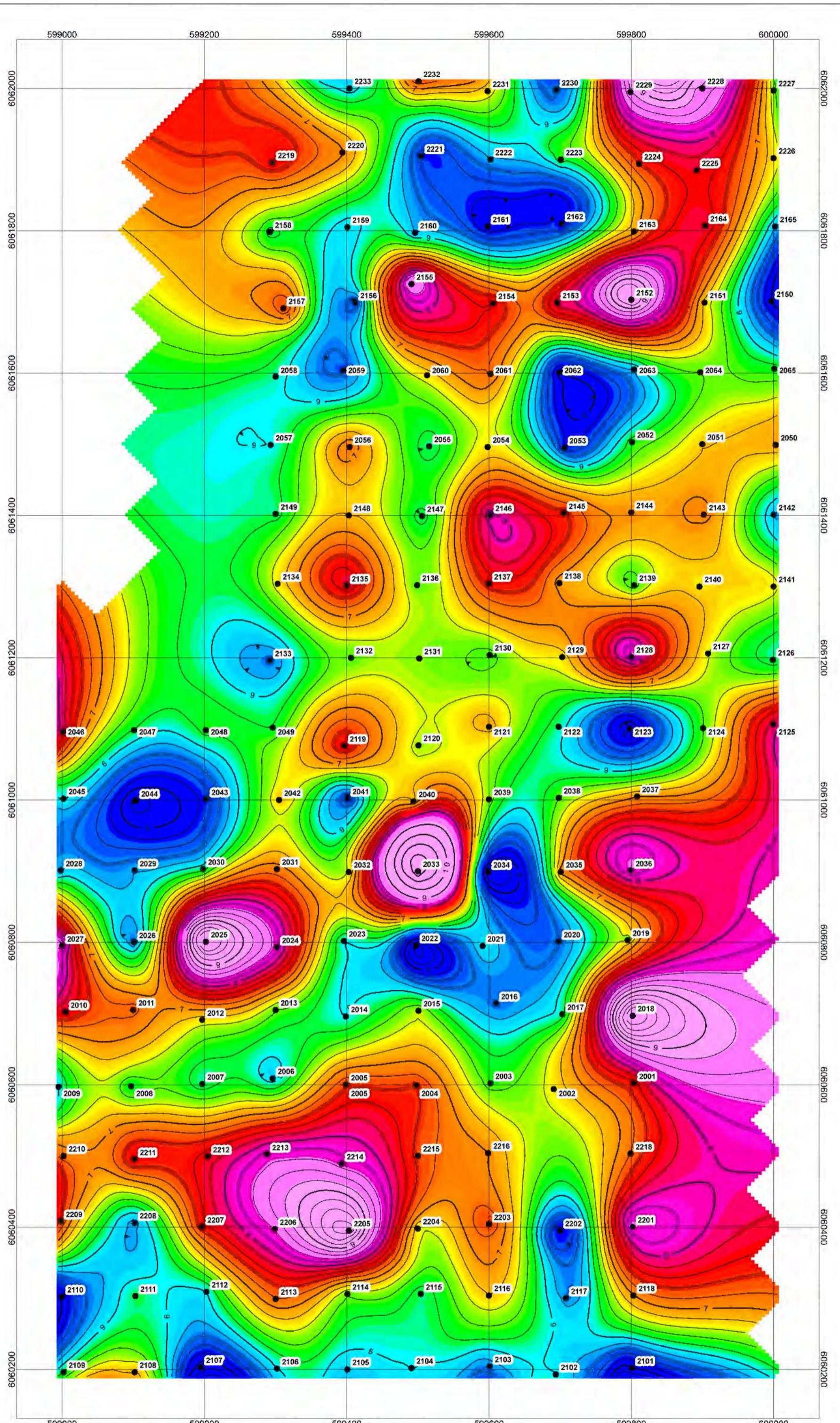


Stock Property 2012

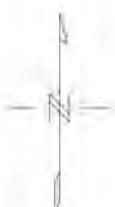
Soil Assay Results

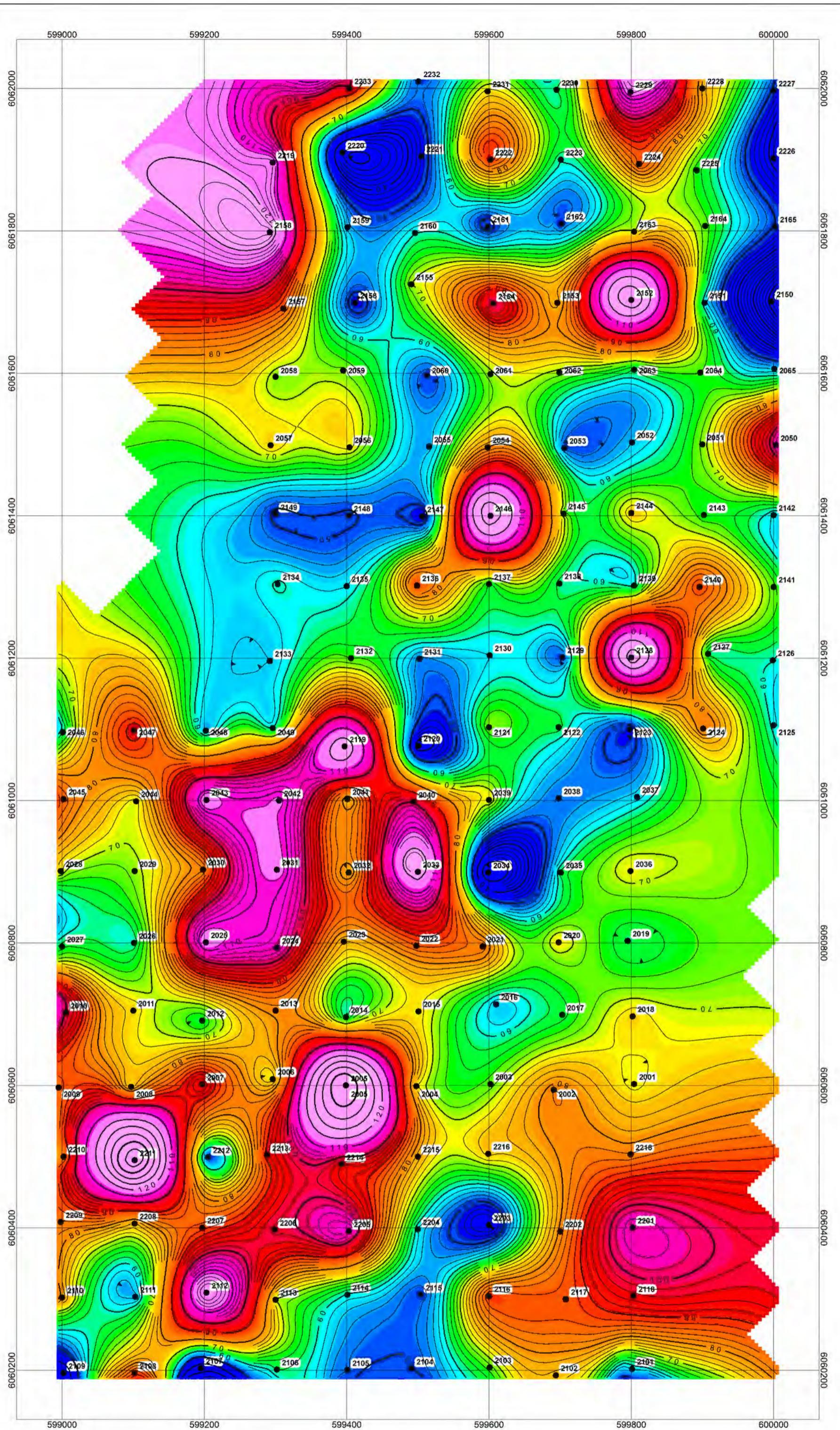
Mo ppm





50 0 50 100 150
(meters)



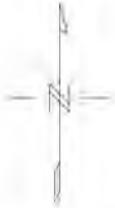


Stock Property 2012

Soil Assay Results

Zn ppm

50 0 50 100 150
(meters)



APPENDIX IV: SAMPLE DETAILS

Sample #	Date	Sampler	Client	Property Name	Stn#	Easting (NAD83)	Northing(NAD83)	Zone	Elevation (m)	Outcrop (Y/N)	Soil Horizon	Depth	Colour		Slope Dir.	Slope Angle	%clay	%silt	%sand	%pebbles	%cobbles
2209	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		598998	6060408	9	1602	Y	B	25	brown	Wet	Hilltop	Gentle	10	40	10	20	20
2210	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599002	6060500	9	1599	Y	B	20	light brown	Moist	North Facing	Gentle	5	60	15	10	10
2211	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599102	6060495	9	1586	Y	B	20	brown	Moist	NE facing	Gentle	10	30	30	15	15
2212	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599205	6060499	9	1580	Y	B	18	brown	Moist	Hilltop	Gentle	10	40	30	10	10
2213	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599288	6060502	9	1572	Y	B	20	brown	Wet	Flat	Gentle	30	20	20	15	15
2214	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599393	6060489	9	1569	N	B	20	light brown	Moist	Flat	Gentle	10	50	25	5	10
2215	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599500	6060500	9	1573	Y	B	30	light brown	Moist	Flat	Gentle	25	50	15	5	5
2216	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599599	6060504	9	1565	Y	B	28	brown	Moist	South Facing	Gentle	20	50	20	5	5
2217	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock									No sample taken due to the sample area being in the middle of a very large previously excavated area - table minfile location								
2218	October 2 2012	Steve Oxtoby	Richard Billingsley	Stock		599799	6060503	9	1549	N	B	35	light brown	Moist	NE facing	Gentle	10	50	20	10	10
2219	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599296	6061896	9	1537	Y	B	25	brown	Moist	North Facing	Steep	40	40	10	5	5
2220	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599394	6061910	9	1586	Y	B	15	dark brown	Wet	Flat	Gentle	10	40	40	5	5
2221	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599505	6061905	9	1608	Y	B	15	brown	Moist	North Facing	Gentle	10	60	20	5	5
2222	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599602	6061900	9	1623	Y	B	15	light brown	Moist	Hilltop	Gentle	0	60	10	15	15
2223	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599701	6061900	9	1624	Y	B	15	brown	Moist	Hilltop	Gentle	5	60	15	10	10
2224	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599811	6061894	9	1628	Y	B	20	light brown	Moist	Flat	Gentle	5	50	5	20	20
2225	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599892	6061885	9	1627	Y	B	25	light brown	Wet	Flat	Gentle	10	30	40	10	10
2226	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		600000	6061902	9	1635	Y	B	15	brown	Moist	Hilltop	Gentle	0	40	40	10	10
2227	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		600000	6061997	9	1647	Y	B	25	brown	Moist	South Facing	Gentle	20	40	20	10	10
2228	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599900	6062000	9	1635	Y	B	25	brown	Moist	Hilltop	Gentle	40	30	10	10	10
2229	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599799	6061995	9	1635	Y	B	18	brown	Moist	Flat	Gentle	20	50	10	10	10
2230	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599695	6061998	9	1625	Y	B	18	light brown	Moist	South Facing	Gentle	10	40	30	10	10
2231	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599598	6061996	9	1622	N	B	32	brown	Moist	Flat	Gentle	10	50	30	5	5
2232	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599501	6062010	9	1606	N	B	15	brown	Moist	West Facing	Gentle	10	50	30	5	5
2233	October 3 2012	Steve Oxtoby	Richard Billingsley	Stock		599404	6062000	9	1570	N	B	25	brown	Moist	West Facing	Steep	10	50	30	5	5

APPENDIX V: PHOTOS

Andesite with malachite.



Downslope of Stock adit.





East of Stock
sample.

Historical trench: Stock property.



Malachite in fractures.





Malachite and azurite.



Stock adit
sample.

Stock MINfile outcrop boulder.





Stock MINfile showing
looking south.

Stock MINfile showing:
outcrop.





Stock MINfile showing: sample.

Stock MINfile.



Table MINfile showing: DDH collar.



A close-up photograph of a weathered rock outcrop. The rocks are brownish-orange with significant weathering and lichen. A hammer is placed next to the rocks to provide a sense of scale.

Table MINfile showing:
outcrop sample.