

# 2011 Mapping and Sampling Assessment Report for the Poker Property, British Columbia

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**LIARD MINING DIVISION, BRITISH COLUMBIA**

**Tenure #: 513604, 513605, 513614**

**Event #: 5036118**

**BCGS Maps: 104G.071 and 104G.081  
(Zone 9 - NAD 83)  
326000 E - 6411000 N**

**BC Geological Survey  
Assessment Report  
32594**

**Report For:  
FIRESTEEL RESOURCES INC.  
Suite 1051 - 409 Granville Street  
Vancouver B.C. V6C 1T2**

**Prepared by:  
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And  
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UTM Exploration Services, Ltd., Smithers, BC**

**November 30, 2011**

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## Summary

In late September 2011, UTM Exploration Services Ltd provided personnel to assist Firesteel Resources on their Poker property, approximately 130km southwest of Dease Lake, B.C. The goal of the field work was to continue efforts to locate the source of three mineralized boulder types originally identified in the late 1980's. These boulder types are (Westcott, 1989):

- 1) Quartz boulders with high sulfides exhibiting high gold values
- 2) Massive sulfides with crude banding containing high copper values
- 3) Quartz-carbonate boulders with high zinc values

During nine days on site, 63 grab samples were taken to help locate the watershed source of various boulder types of economic interest. In general, these samples did not assay very high for the elements of economic interest. This type of low-resolution approach was intended to identify if there were boulders of interest being sourced from areas or valleys other than the previously identified cirque on the southern flank of the northern valley. These results would seem to reinforce the notion that the primary area of interest on these claims is indeed in the northern glacial valley (above the "hanging glacier" cliff).

Some geologic mapping was also done in order to verify the accuracy of the map created for the 1989 assessment report. The geological mapping carried out in 1989 well represents the general trends present on the property. The 1989 map could benefit from greater detail in some areas, but is overall a good map from which to work.

In addition, the terminus positions of the three glaciers on the property were mapped to quantify recent glacial retreat. By comparing recent ice terminus positions to those mapped in 1989, it would appear that there has been no appreciable glacial retreat in the last 22 years. These measurements preclude finding the source of the various boulder types in any terrain recently exposed by glacial retreat.

Camp was situated on-site at the confluence of the three glacial valleys. This location is the only spot that gives access to all three glacial valleys (as well as the fluvial valleys to the north), but did not give good access to the higher elevations on the property.

## Property Description and Location

### Accessibility and Infrastructure

The Poker property is located in northwest British Columbia, approximately 130km southwest of Dease Lake, BC and 45km west-southwest of Telegraph Creek, BC (Figure 1). The property is located at 326000E and 6411,000N (NAD 83, Zone 9) on BCGS map sheets 104G.071 and 104G.081.

Access to the Poker property is by helicopter only. Pacific Western has a base at the Dease Lake airport that provides the closest available transport. Staging out of Glenora (about 20km further west than Telegraph Creek) provides a shorter round-trip for the helicopter than either Telegraph Creek or Dease Lake.

There are no roads or trails leading directly to the property.

Smithers, BC and Terrace, BC are the closest sizeable supply centers, with Smithers offering scheduled flights to Dease Lake three times a week during the exploration season (depending on weather, mid-May to mid-October). Smithers is approximately a six hour drive south from Dease Lake, while Terrace is approximately four hours south.

Firesteel Resources

Poker Property

### Firesteel Resources Inc. Poker Location Map



-  Subject Claims
-  Adjacent and Overlapping Claims
-  Tenure Road
-  Hwy - Paved
-  Major Road
-  Bridges
-  20K Trim Contours
-  20K Trim Watercourses
-  20K Trim Water
-  Private Land
-  Cutblocks

Scale 1: 1,000,000  
 Data provided by: Geogratis, LRDW  
 Projection: NAD 83 UTM Zone 9  
 Drawn by TH/UTM Exploration Services Ltd.  
 Office: (250) 877-3740  
 email: utm.tara@gmail.com

**Firesteel Resources Inc.**  
**Poker Property**



Telegraph Creek

Dease Lake

6450000

6450000

6400000

6400000

6350000

6350000

6300000

6300000



Figure 1. Poker Location Map.

## Mineral Tenure Information

The Poker property consists of three (3) contiguous claims (513604, 513605, and 513614) that encompass a total of 2327.85 hectares (Figure 2). Firesteel Resources Ltd. is the sole owner of these claims. See Table 1 for mineral tenure details.

**Table 1. Mineral Tenure Details.**

<b>Tenure #</b>	<b>Map #</b>	<b>Issue Date</b>	<b>Good To Date</b>	<b>Hectares</b>
513604	104G	2005/may/30	2013/oct/01	689.57
513605	104G	2005/may/30	2013/oct/01	603.38
513614	104G	2005/may/30	2013/oct/01	1034.90

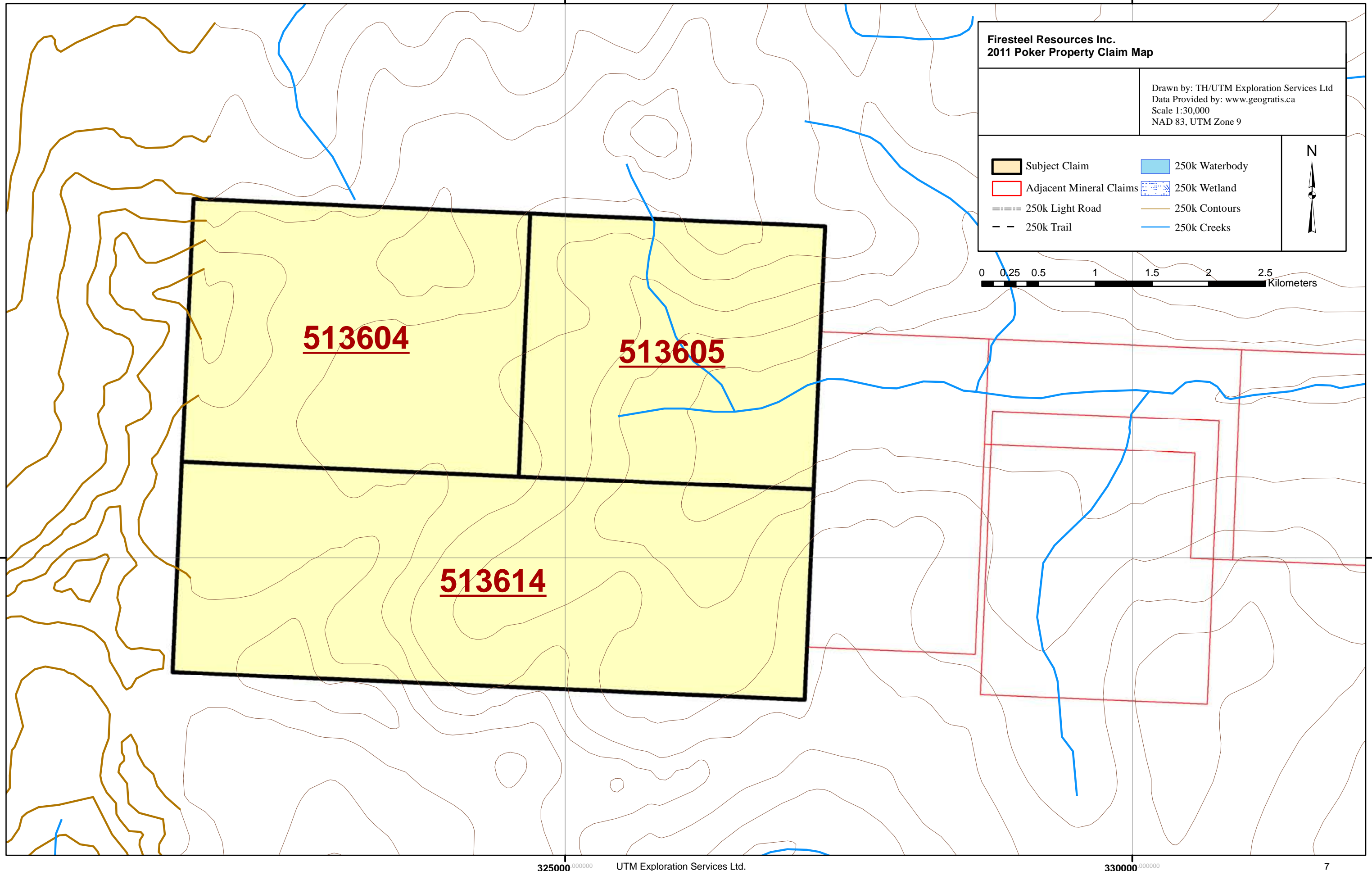


Figure 2. Mineral Claim Map.



## Physiography and Climate

The topography on the property is quite rugged in most areas (except for the lower valley sections in the east). There are also three major glaciers that cover approximately 40% of the property (DuPre, 2003). Elevations range from 900 m in the valley bottom to 2554 m at the peak of Mt. Kitchener (Lane, 2006). Snow begins to accumulate on the higher ground in September and may remain until July (DuPre, 2001).

## Exploration History (Lane, 2006 and DuPre, 2003)

The Poker Property was staked in 1988 after prospectors working for Cominco Ltd. located 36 gold-bearing, quartz-sulphide boulders in a one kilometer long boulder train that lead west along Limpoke Creek to the toe of Limpoke Glacier (the Lower Boulder Field). Samples from the boulders assayed 24.3g/t Au (0.83 oz/t Au). Additional Cominco prospecting in 1989 discovered a second mineralized boulder field on the south side of Limpoke Glacier, 1.75km west of the Lower Boulder Field (the Upper Boulder Field).

Cominco geologists believed that the gold bearing mineralized boulders came from beneath the Limpoke glacier, perhaps adjacent to a monzodiorite plug, located on the south side of the glacier.

Several exploration programs have been undertaken since the 1988 discovery of the high grade boulders. Cominco Ltd. undertook the first program in 1989. Subsequent programs were undertaken by Dryden Resource Corporation in 1990-1992. Some of this work was property wide in extent. However, most of it was concentrated in a relatively small (0.75 sq. km) area on the south side of Limpoke Glacier. The work included silt sampling, soil sampling, contour soil and talus sampling, heavy metal concentrate sampling, rock sampling, geological mapping, prospecting, geophysical surveying (magnetics, VLF-EM and UTEM), trenching and diamond drilling (three holes totaling 379 m). The drilling mainly tested east-west trending geophysical targets, which were found to be associated with recessive graphitic argillite cut by shear zones. Unfortunately, none of the diamond drill core has been preserved. Expenditures to date have exceeded \$1,250,000.

None of the work is considered to have discovered the main bedrock source of the property's high grade boulders. However, in a Nov. 27, 1991 Assessment Report, N.C. Aspinall indicated he considered the mineralized boulders to have been derived from Neoglacial "lateral moraine" deposits, which occur immediately north of the 9+80 N baseline, between grid lines 1460 E and 17+00 E (east-west trending, 240m long). Aspinall also indicated that "recent" movements have built up a 10m thick terminal and lateral moraine west of grid line 14+00 E, in the vicinity of the 1MO N baseline, which covers a possible bedrock source of the mineralized boulders.



Prospecting by Dryden in 1992 did uncover a narrow, intermittent, north-south trending quartz vein hosted by a shear zone cutting monzodiorite, which is thought to be exposed about 500 meters to the west (up ice) of the upper mineralized boulder field. This quartz vein was chip sampled in two locations 55m apart and assayed 2.68 oz/t Au over 0.50m and 0.36 oz/t Au over 0.25 m.

## Geological Setting

### Regional Setting (DuPre, 2002)

The Telegraph Creek area lies on the western margin of the Intermontane Belt, within the Stikine Arch near its contact with the Coast Plutonic Complex (fig. 4). Upper Triassic Stuhini Group island arc volcanic and sedimentary rocks unconformably overlie a sequence of Paleozoic to Middle Triassic marine sediments. These have been intruded by Upper Triassic to Lower Jurassic syenitic stocks and by Jurassic to Lower Cretaceous quartz diorite and granodiorite plutons of the Coast Plutonic complex.

The oldest Paleozoic rock assemblage in the Telegraph Creek area consists of Permian bioclastic limestone overlying metamorphosed sediments and volcanics, which in turn are overlain by a crinoidal limestone unit.

Unconformably overlying the Permian limestone unit is the Upper Triassic Stuhini Group, which is mainly composed of augite andesite breccias, conglomerates and volcanoclastic rocks. This Upper Triassic assemblage is correlative with the rocks that host the Snip Gold Mine, located 60 kilometers to the south.

Small oval or round syenite, pyroxenite and orthoclase porphyry stocks, dated as Late Triassic to Early Jurassic (Souther, 1971) intrude mainly Stuhini Group volcanic rocks. The surrounding sedimentary or volcanic rocks are commonly homfelsed. Upper Triassic volcanics intruded by syenitic stocks hosts the Galore Creek and Copper Canyon copper-gold porphyry deposits. Orthoclase porphyry or syenitic stocks are associated with most of the significant precious metal deposits in the Stewart, Sulphurets and Iskut River Districts, including the Silbak Premier, Sulphurets and Snip deposits.

Lower Jurassic conglomerates with granodiorite xenoliths unconformably overlie Triassic sediments of the Stuhini Group. The Jurassic volcano-sedimentary strata are similar in appearance to those of the underlying Stuhini Group, with differentiation made possible by the identification of fossils. Jurassic and/or Cretaceous granodiorite to quartz diorite batholiths of the Coast plutonic complex intrude all older stratigraphic units. This intrusive suite consists mainly of medium-grained hornblende-biotite granodiorite with lesser hornblende quartz diorite and is locally

foliated near its edge. Marginal phases of this intrusive unit are commonly syenitic and “much additional work is needed to subdivide the many phases of the map-unit” (Souther, 1972).

Large scale northeast-southwest trending, upright isoclinal folds are the primary structural features. Post-intrusive deformation is characterized by regional scale; vertical, north-south trending faults and shear zones. Similar structures also trend northwest-southeast. Many of these structures are typified by orange- weathering carbonate alteration. Quartz-biotite honfelsing occurs in the Stuhini Group rocks, at their contact with coeval or later intrusions.

### Local Geology (Lane, 2006)

Most of the property is covered by greywacke, siltstones and argillites, with andesite volcanic rocks occurring at higher elevations. The stratigraphy has been intruded by felsite and lamprophyre dykes, and a monzodiorite plug of particular interest, which is located adjacent to the Upper Boulder Field along the south side of Limpoke Glacier. The monzonite is cut by north-south trending shears.

## Property Bedrock Mapping

### Introduction

A two-person crew spent seven days both prospecting and mapping in the lower areas of the property between September 17 and 26, 2011. Camp was situated at the confluence of the three glacial valleys on the property and all transport around the property was on foot. Large amounts of rain and snow made for dangerous mudslide and rock fall conditions. These dangers prevented access to the higher elevations of the property.

### Methodology

Detailed mapping in the lower elevations is made difficult by the fact that most outcrop has been ground smooth by glacial action, making obtaining fresh samples for description a difficult task. In addition, moraines cover much of the available ground. As such, mapping was done where possible in order to verify the accuracy of the broad mapping done during the 1989 field season. In general, the 1:10000 scale mapping completed in 1989 can be considered a good low-resolution representation of the property geology (at least in the lower elevations). The veracity of the 1989 mapping remains unverified in the higher elevations.

## Lithology, Alteration and Structure

The majority of bedrock encountered was mixed greywacke and muddier sediments (especially in the lower elevations). Andesite and andesite porphyry were encountered at higher elevations in the north of the property. Various dykes and tuff deposits were also encountered. The results of this mapping program are shown in Figure 3.



**Firesteel Resources Inc.**  
**Poker 2011 - Geology**

Drawn by: TH/UTM Exploration Services Ltd  
 Data Provided by: www.geogratia.ca  
 Scale 1:3,500  
 NAD 83, UTM Zone 9

Subject Claim	250k Waterbody
Adjacent Mineral Claims	250k Wetland
250k Light Road	250k Contours
250k Trail	250k Creeks

0 60 120 240 360 480 600 Meters

**Location Within Poker Claims**

1:25,000

513604

513605

513614

--- Contact

--- Ice Front

▲ Rock Samples

▲ Foliation w/Dip

**Geology**

Andesite

Dyke

Slate

Tuff

Wackestone

Figure 3. Results of 2011 Geology Mapping.

Calcite veining is quite prevalent in the sedimentary rock of the lower elevations. These veins are commonly altered to what would appear to be dolomite, with sections of the original calcite remaining unaltered. Quartz veining is clearly present in the area (as evidenced by the large amount of quartz float encountered), but must be concentrated in the upper elevations. This would place the quartz veining in proximity to the various intrusive bodies present on the property, which also occur only in the upper elevations.

Minor notes were taken regarding structure and are included in Table 2 and Table 3.

**Table 2. Structural Mapping Notes.; Foliations**

<b>Type</b>	<b>Easting</b>	<b>Northing</b>	<b>Strike</b>	<b>Dip</b>	<b>Comments</b>
S0	326185	6411384	73	37	in greywacke
S0	325705	6411390	80	34	slate bed in graywacke
S0	326240	6411779	168	80	in greywacke
S0	325497	6410373	280	74	tuff outcrop in greywacke
S0	325524	6410274	50	25	in mudstone/slate
S0	326338	6410423	75	73	tuff-greywacke contact

**Table 3. Structural Mapping Notes: Various**

<b>Type</b>	<b>Easting</b>	<b>Northing</b>	<b>Strike</b>	<b>Dip</b>	<b>Comments</b>
joint	325703	6411385	72	17	in graywacke
joint	325703	6411385	68	56	in graywacke
joint	325703	6411385	316	67	in graywacke
vein	326192	6411344	313		dolomitized calcite vein in greywacke
dyke?	326107	6411347	315		black dyke in greywacke
vein	326113	6411314	18		20cm dolomitized calcite vein
joint	326233	6411752	141	71	in graywacke
joint	326233	6411752	87	88	in graywacke
joint	326233	6411752	323	59	in graywacke
vein	326237	6411755	313		altered calcite vein in greywacke
vein	325608	6410339	67	85	calcite vein in greywacke
dyke	325457	6410220	271	66	80cm dyke
joint	325524	6410274	271	73	in mudstone/slate
joint	325524	6410274	288	47	in mudstone/slate
joint	325524	6410274	151	59	in mudstone/slate

## Sampling

### Sampling Methodology and Approach

During seven days of fieldwork, 63 grab samples were taken on the Poker property (Figure 4). These samples were mostly float samples, with the remaining 12 samples being from outcrop (Appendix IV). Float samples were taken from four distinct regions of the property. The first three regions are from areas that are demonstrably part of the watersheds of the three glacial valleys. The fourth area was downstream of the confluence of the glacial valleys. As such, float samples taken in this region of the property could have provenance anywhere on the property. It is clearly advantageous to sample mainly in the first three regions, but sampling was also done in the fourth (blended) region due to this being the location of the original “Lower Boulder Field” identified in 1989.

When possible, the first three “watershed” sampling regions were further subdivided into which side of the valley could possibly contain the outcrop source of the sample in question. This was only possible higher up in a given valley, and on a valley wall (rather than in creek deposits). This low-resolution sampling approach was intended to identify if there were boulders of interest being sourced from areas or valleys other than the previously identified cirque on the southern flank of the northern valley.



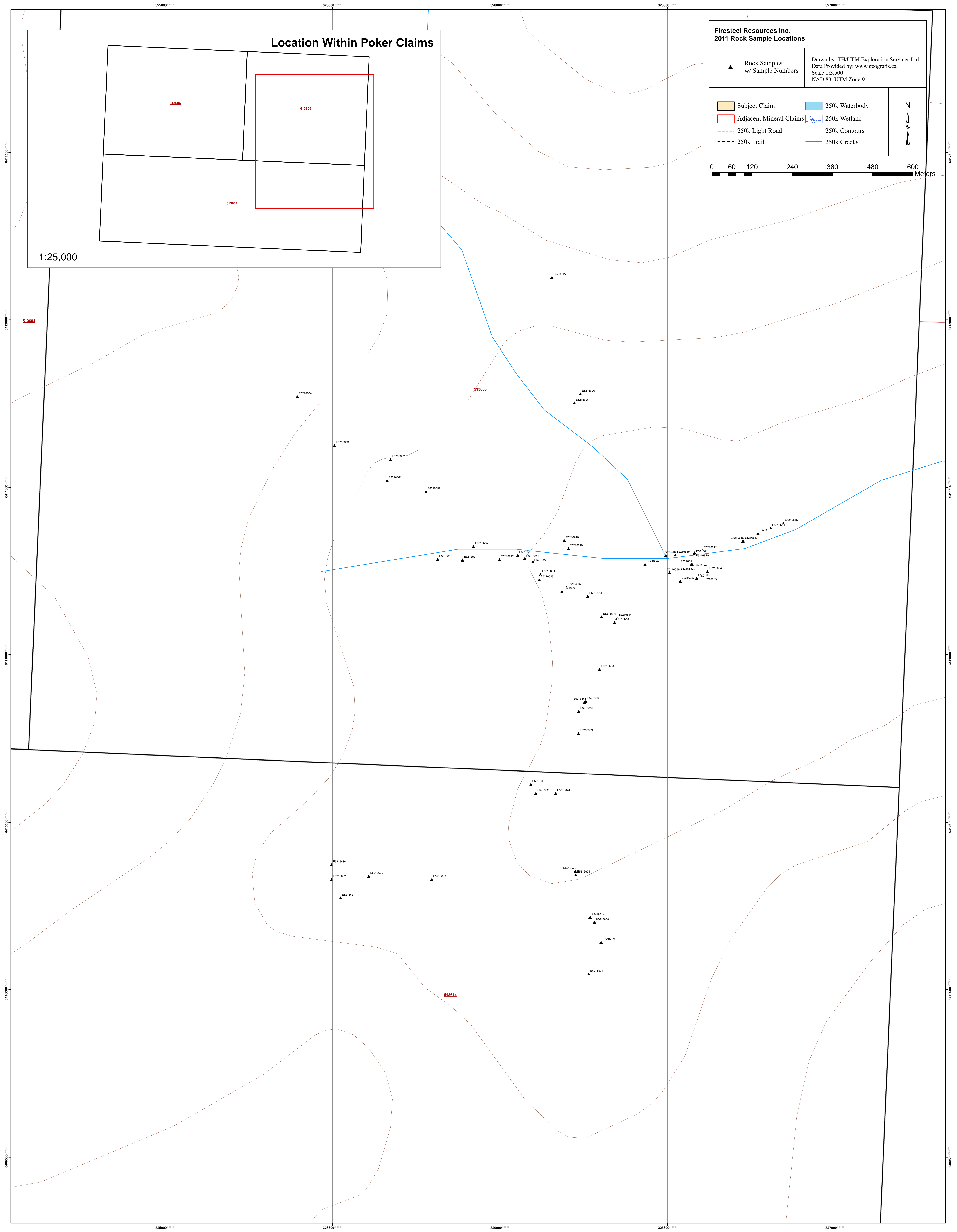


Figure 4. Rock Sample Location Map.

## Sample Preparation, Analysis, and Security

All field samples were brought to Smithers, BC by truck and delivered to AGAT's prep lab in Terrace, BC by Banstra Shipping. Samples were prepped there and then sent on to the main laboratory in Calgary, Alberta for analysis. All samples were tested for a general suite of elements by ICP through aqua regia digestion. Gold was analyzed via fire assay. See Appendix II for detailed methodologies.

## Data Verification

Both blank samples and standards were included in the sample stream for the purposes of assay verification. Two standards were used for this project: one with high elemental values, the other with low values.

## Results

In general, these samples did not assay very high for the elements of economic interest. A few samples registered anomalous gold values, but none greater than 2.3 g/t. One sample returned a value of 6.85% zinc, and the highest recorded copper value was 0.22%. All assay results are in Appendix I, geochemical maps in Appendix III.

## Interpretation and Conclusions

The assay results obtained from the various grab samples did not register very high for the elements of economic interest. A low-resolution, "watershed-centric", approach to sample collection was used in the hopes of demonstrating the presence of other areas of interest (other than the previously identified south side of the northern "hanging glacier" valley). This strategy entailed selecting float samples that were demonstrably sourced from the various valleys (both glacial and non-glacial) on the property. A good assay from one of those samples would have demonstrated the need to expand the search for outcrop sources of economic mineralization.

The lackluster assay results obtained this year do not indicate that there are other areas of interest for further field work outside of the area previously identified in the "hanging" valley.

## Recommendations

Much of the terrain on the Poker property is difficult to access and sometimes quite treacherous. As such, detailed geological mapping and sampling of the higher

elevations will likely require extensive helicopter support, and a stint of good weather (both to allow the slopes to dry, and to allow for flight operations).

The NNW-trending soil gold anomaly identified in 2006 is an excellent target for more detailed investigation in the future. Adding more soil sampling/prospecting transects upslope of the 2006 transect would help constrain the location and orientation of this anomalous zone. These transects should be sampled along the ridge top (resampling the 1992 line while obtaining GPS locations), as well as along the south side of the ridge. When possible, bedrock in the vicinity should also be sampled, with an eye towards any veins that may be present.

A soil sampling transect should also be carried out along the length of the north side of the Limpoke glacier valley. This transect should detect the 2006 gold anomaly (if it is present on the north side of the valley), as well as any other anomalies that may be present. In general, this project would benefit from as much soil sampling as seems prudent and within budget.

It would also be advantageous to perform a magnetic survey over the property, and especially the areas containing both the “upper grid” and the 2006 soil anomaly. This survey could be done as a combination of aerial surveying and ground transects in order to give both a broader regional view, and a more detailed picture in areas of specific interest. This approach would allow the effort of ground magnetics acquisition to be limited in this difficult terrain.

If the budget for future work is sufficient, drilling should also be included in the research program. The two most promising targets seem to be the 2006 gold anomalous zone, and the mineralization present in the southern cirque of the “Upper Boulder Field” (on the south side of the Limpoke glacier, just upstream of the cliffs). The 2006 assessment report (DuPre) contains specific location recommendations for both of the drilling targets listed above.

Exploration Work type	Comment	Days			Totals
Personnel (Name) * / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Stan Hammon - PM	Sept 14-16	1.5	\$700.00	\$1,050.00	
Stan Hammon - PM	Sept 17-26	10	\$700.00	\$7,000.00	
Tucker Innes - Prospector/FA	Sept 17-26	10	\$622.00	\$6,220.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$14,270.00	\$14,270.00
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search			\$0.00	\$0.00	
Database compilation			\$0.00	\$0.00	
Computer modelling			\$0.00	\$0.00	
Reprocessing of data			\$0.00	\$0.00	
Report preparation	A, Ledwon, P.Geo	3.0	\$70.00	\$210.00	
Report preparation	S. Hammon	28.0	\$55.00	\$1,540.00	
Other GIS	Sept/Dec	10.5	\$60.00	\$630.00	
				\$2,380.00	\$2,380.00
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
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	\$0.00	
Rock	<i>laboratory costs</i>		\$0.00	\$2,033.80	
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	
				\$2,033.80	\$2,033.80
Transportation		No.	Rate	Subtotal	
Airfare			\$0.00	\$0.00	
Taxi			\$0.00	\$0.00	
truck rental	Sept	10.00	\$90.00	\$900.00	
kilometers	Sept	705.00	\$0.75	\$528.75	
ATV			\$0.00	\$0.00	
fuel	Sept		\$0.00	\$23.46	
Helicopter (hours)			\$0.00	\$6,570.56	
Fuel (litres/hour)			\$0.00	\$0.00	
Other					
				\$8,022.77	\$8,022.77
Accommodation & Food	Rates per day				
Hotel	Sept		\$0.00	\$70.89	
Camp	14 Days for 2 man crew	20.00	\$125.00	\$2,500.00	
Meals	Sept		\$0.00	\$176.71	
				\$2,747.60	\$2,747.60
Miscellaneous					
Telephone			\$0.00	\$0.00	
Expediting	Sept	10.00	\$55.00	\$550.00	
Management Fee	Sept			\$2,360.55	

Other Standards	Sept			\$101.62	
Other Logistics	Sept	12.00	\$55.00	\$660.00	
				\$3,672.17	\$3,672.17
Equipment Rentals					
Field Gear Radios		1.00	\$56.00	\$56.00	
Field Gear Sat Phone	Sept, .5 months	0.50	\$360.00	\$180.00	
Field Gear Sat Phone Mins	Sept	50.00	\$2.00	\$100.00	
Field Gear Prospecting Kit	Sept	10.00	\$25.00	\$250.00	
Field Gear Computer	Sept	10.00	\$25.00	\$250.00	
Other (Specify)					
				\$836.00	\$836.00
Freight, rock samples					
			\$0.00	\$0.00	
			\$0.00	\$0.00	
				\$0.00	\$0.00
<b>TOTAL Expenditures</b>					<b>\$33,962.34</b>

## References

Aspinall, N. C., D. M. Strain, and A. Blain (1990). Geological Mapping, Geochemical Sampling, Geophysical Surveying and Prospecting on the Poker Property; Assessment Report 20724, BC Ministry of Energy, Mines and Petroleum Resources.

Aspinall, N. Clive (1991). Drilling Program on the Poker Property; Assessment Report 21532, BC Ministry of Energy, Mines and Petroleum Resources.

Aspinall, N. C. (1991). 1991 Heavy Metal Concentrate Geochemical Sampling and Auriferous Quartz Boulder Tracing Program on the Poker Property; Assessment Report 21958, BC Ministry of Energy, Mines and Petroleum Resources.

DuPre, David G. (2003). Report on the 2002 Prospecting Program – Poker Property; Assessment Report 27102, BC Ministry of Energy, Mines and Petroleum Resources.

Lane, Ron W. (2006). Rock Sampling, Contour Soil Sampling, Prospecting and Trenching Report – Poker Property; Assessment Report 28744, BC Ministry of Energy, Mines and Petroleum Resources.

Westcott, M. G. (1989). Geological and Geochemical Work on the Poker 1-7 Claims; Assessment Report 19247, BC Ministry of Energy, Mines and Petroleum Resources.

## Statement of Qualifications

I, Anastasia Ledwon, of 4901 Slack Road, Smithers, BC V0J 2N2 do so state that:

1. I graduated from the University of Victoria with a B.Sc in Earth and Ocean Sciences, With Honours, With Distinction, in 1997;
2. I have been practicing my profession as a geologist in mineral exploration continuously since 2005 and have worked as a geologist in other disciplines since 1997;
3. I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia and have been since September, 2009 (License # 33898)
4. I am currently part owner of and employed as a Director and Professional Geoscientist for UTM Exploration Services Ltd of Smithers, BC.

The observations, conclusions and recommendations contained in this report are based on the reviews of mineral assays, field notes from Stan Hammon, Ph.D and UTM Project Manager, and reviews of assessment and work reports previously submitted for these properties. Ms. Ledwon not visit the claim site but oversaw the project.



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Anastasia Ledwon, P.Geo #33898



## **Appendix I: Assay Results**



CLIENT NAME: UTM EXPLORATION SERVICES  
PO BOX 5037  
SMITHERS, BC V0J2N0

ATTENTION TO: RICHARD BECK

PROJECT NO: FSPOK001

AGAT WORK ORDER: 11D540624

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, ICP Supervisor

DATE REPORTED: Nov 10, 2011

PAGES (INCLUDING COVER): 24

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	
Unit:	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
Sample Description	RDL:	0.01	0.01	0.1	1	5	1	0.05	0.01	0.01	0.01	0.1	0.5	0.05	
E5216610		0.22	0.35	6.8	8	<5	149	0.29	0.06	3.83	0.43	17.6	5.3	41.6	0.18
E5216611		0.15	0.49	33.8	2	<5	223	0.38	0.04	0.98	0.15	20.7	2.8	52.5	0.14
E5216612		0.07	2.21	0.9	2	<5	95	0.12	0.04	2.54	0.05	14.8	12.5	41.9	0.43
E5216613		0.27	0.73	14.5	1	<5	21	0.55	<0.01	13.4	0.25	5.74	10.2	7.5	0.59
E5216614		0.03	0.03	<0.1	2	<5	15	<0.05	<0.01	32.2	0.05	3.87	0.2	0.7	<0.05
E5216615		2.73	0.52	92.4	135	<5	87	0.40	0.45	2.88	7.13	26.5	3.4	51.8	0.10
E5216616		0.72	1.13	12.4	8	<5	83	0.46	0.22	10.2	0.53	70.2	61.0	178	2.97
E5216617		0.15	2.85	7.5	2	23	43	0.18	0.02	2.32	0.98	9.80	31.5	52.6	0.20
E5216618		0.61	0.92	94.4	4	<5	1150	0.59	0.11	5.98	0.19	12.5	29.9	31.6	1.27
E5216619		0.32	1.98	35.9	4	<5	83	0.41	0.02	12.4	1.02	10.9	16.8	31.9	0.14
E5216620		164	0.31	1150	497	6	19	0.06	63.1	1.54	613	5.68	28.9	15.0	0.35
E5216621		1.79	3.58	72.4	4	<5	94	0.41	0.12	5.07	0.92	25.8	39.3	32.0	3.57
E5216622		0.07	0.23	8.8	4	<5	1050	0.10	0.01	21.0	0.14	9.16	4.9	3.2	0.30
E5216623		1.94	1.12	3.3	46	<5	382	0.06	24.9	3.38	2.89	2.83	9.6	183	0.78
E5216624		4.50	1.09	102	123	<5	52	0.19	5.83	1.87	0.49	16.8	187	31.6	0.27
E5216625		0.11	0.65	7.3	2	<5	75	0.38	0.16	18.6	0.25	8.21	7.0	8.0	0.13
E5216626		0.13	0.92	3.9	3	<5	108	0.12	0.12	19.6	0.18	10.4	13.5	16.8	0.13
E5216627		0.13	1.04	12.4	<1	<5	1550	0.25	0.03	14.4	0.16	8.49	6.7	39.0	1.00
E5216628		0.08	1.70	1.7	3	<5	83	0.11	0.03	2.28	0.12	13.0	14.9	34.4	0.34
E5216629		0.08	1.16	19.4	2	<5	678	0.67	0.16	4.45	0.04	156	17.6	31.4	2.29
E5216630		0.03	0.50	2.3	1	<5	82	0.62	0.04	0.45	0.04	35.3	0.8	59.0	0.55
E5216631		0.36	1.98	11.2	<1	<5	44	0.17	0.08	1.46	0.29	15.4	13.4	106	0.72
E5216632		0.16	0.64	19.5	<1	<5	34	0.17	0.02	18.7	0.08	11.9	6.2	27.0	0.43
E5216633		0.08	0.88	45.0	2	5	2210	0.50	0.06	5.89	0.22	8.80	15.0	60.7	2.58
E5216634		0.27	2.45	14.7	1	<5	53	0.18	0.02	7.09	0.22	21.6	28.3	30.9	0.73
E5216635		0.15	0.42	96.5	8	<5	1190	0.15	0.03	12.2	0.10	5.11	4.1	6.6	0.41
E5216636		0.55	0.36	3270	32	<5	116	0.14	0.03	0.55	4.89	15.8	2.0	42.8	0.08
E5216637		0.42	1.04	14.4	10	<5	99	0.23	0.14	2.70	1.82	31.5	7.4	22.4	0.08
E5216638		0.05	0.55	10.2	1	<5	29	0.27	<0.01	17.3	0.05	13.4	4.9	2.7	0.19
E5216639		0.19	0.27	446	10	<5	2340	0.21	0.02	14.6	0.04	6.81	3.3	8.2	0.42
E5216640		0.37	1.10	4.6	1	<5	100	0.19	0.05	0.73	0.22	14.2	9.8	21.0	0.36
E5216641		0.07	1.09	6.9	<1	<5	98	0.32	<0.01	7.79	0.06	4.39	17.2	12.4	0.33

Certified By:



# Certificate of Analysis

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## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	
Unit:	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
Sample Description	RDL:	0.01	0.01	0.1	1	5	1	0.05	0.01	0.01	0.01	0.1	0.5	0.05	
E5216642		6.05	1.28	126	27	<5	44	0.10	0.08	0.80	55.4	6.73	14.9	67.2	0.34
E5216643		0.12	0.88	24.4	1	<5	106	0.34	0.05	8.99	0.26	8.31	15.8	22.5	2.46
E5216644		0.04	0.44	0.9	<1	<5	139	0.40	0.10	0.39	0.12	52.1	0.3	40.3	0.41
E5216645		0.49	2.61	114	117	<5	9	0.19	0.32	4.02	0.58	9.43	14.8	41.2	0.12
E5216646		0.22	2.79	40.6	1	<5	74	0.52	0.03	7.74	0.76	19.8	46.5	97.0	0.45
E5216647		0.29	0.45	12.3	3	<5	37	0.10	0.27	3.04	0.19	20.0	15.3	40.3	0.68
E5216648		0.07	0.61	45.8	1	<5	303	0.14	0.10	23.4	0.08	9.47	6.6	22.5	0.07
E5216649		0.99	0.33	54.8	2140	<5	8	<0.05	89.0	0.25	0.24	1.92	37.4	145	<0.05
E5216650		14.3	0.07	4.2	846	<5	6	<0.05	7.53	3.73	0.21	2.33	6.5	141	<0.05
E5216651		0.44	0.28	88.6	184	<5	47	<0.05	9.74	0.32	0.06	1.74	10.4	208	0.14
E5216652		0.59	0.84	18.1	11	<5	24	<0.05	0.18	1.31	0.14	4.93	15.3	176	0.14
E5216653		51.2	0.35	6.0	2220	<5	8	<0.05	44.1	2.21	0.85	3.06	19.4	212	0.09
E5216654		23.1	0.05	8.0	961	<5	1	<0.05	16.4	0.62	0.31	0.43	13.3	259	<0.05
E5216655		0.08	0.02	<0.1	4	<5	125	<0.05	0.09	28.1	0.03	0.33	0.1	14.7	<0.05
E5216656		0.30	0.22	10.2	1050	<5	72	0.09	6.42	1.85	6.27	2.02	3.2	231	0.44
E5216657		0.16	0.13	0.8	6	<5	28	<0.05	0.44	4.07	0.07	0.76	12.8	164	<0.05
E5216658		1.04	0.08	47.1	7	<5	8	<0.05	0.04	8.52	1.33	0.61	10.8	80.8	0.06
E5216659		1.12	<0.01	2.4	2	<5	2	<0.05	0.04	10.7	0.75	0.04	2.8	79.3	<0.05
E5216660		67.8	0.82	517	529	<5	12	0.10	28.5	1.20	242	15.9	15.3	20.8	0.32
E5216661		0.38	0.60	1.3	15	846	243	0.16	0.05	15.5	0.63	2.04	19.1	14.6	0.09
E5216662		0.76	1.64	46.4	<1	18	89	0.19	0.07	7.19	3.94	15.9	14.7	53.4	1.04
E5216663		0.37	0.41	1.5	5	6	21	0.15	0.12	1.77	0.16	11.7	12.6	31.8	0.07
E5216664		48.0	0.03	8120	21	<5	3	<0.05	13.1	0.42	1550	0.31	85.7	168	0.11
E5216665		0.37	0.41	36.1	2	<5	173	0.22	0.06	2.56	7.69	46.7	2.6	33.5	0.19
E5216666		2.13	0.37	92.8	7	<5	74	0.20	1.88	2.35	26.7	28.6	1.5	26.5	0.05
E5216667		3.27	0.42	655	48	<5	64	0.21	2.66	0.55	14.1	22.2	6.5	46.4	0.05
E5216668		1.45	1.57	6.5	<1	<5	125	0.27	0.13	5.10	16.2	18.3	14.6	159	1.61
E5216669		0.21	0.45	20.5	6	<5	90	0.29	0.19	2.61	0.59	23.3	3.6	45.6	<0.05
E5216670		1.12	0.74	18.2	64	<5	18	0.12	0.48	1.29	0.07	6.43	95.6	120	0.35
E5216671		0.35	1.39	9.0	12	<5	11	0.11	0.60	2.79	0.07	12.9	74.2	140	<0.05
E5216672		0.27	1.17	4.7	7	<5	33	0.17	0.16	1.66	0.09	11.1	22.1	52.0	0.72
E5216673		0.33	1.73	2.6	3	<5	181	0.22	0.33	2.34	0.15	14.1	24.4	41.4	1.98

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

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## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	
Unit:	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
Sample Description	RDL:	0.01	0.01	0.1	1	5	1	0.05	0.01	0.01	0.01	0.1	0.5	0.05	
E5216674		1.29	0.69	6.2	12	<5	47	0.41	0.42	0.51	0.85	4.97	62.1	122	0.15
E5216675		3.24	0.92	81.4	1	<5	41	0.20	0.09	14.2	3.26	6.10	12.3	52.9	0.33

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DATE SAMPLED: Oct 19, 2011

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SAMPLE TYPE: Rock

Analyte:	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	
Sample Description	RDL:	0.1	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.1	0.1	0.01	1	0.05	0.01
E5216610		21.5	2.21	1.60	<0.05	0.20	0.03	0.025	0.17	9.7	0.4	0.13	656	1.93	0.15
E5216611		14.6	1.69	1.82	0.05	0.34	0.03	0.013	0.26	12.9	0.9	0.06	538	0.73	0.14
E5216612		24.3	4.11	9.97	0.09	0.36	<0.01	0.017	0.30	7.7	15.5	1.14	951	0.53	0.17
E5216613		36.9	3.06	2.38	<0.05	<0.02	<0.01	0.015	0.14	2.9	1.5	1.01	1750	2.20	<0.01
E5216614		<0.1	0.77	0.14	<0.05	<0.02	0.01	<0.005	0.01	2.4	0.1	0.17	1580	0.33	<0.01
E5216615		36.7	1.70	2.80	<0.05	0.19	0.02	0.049	0.32	14.7	2.0	0.03	927	2.57	0.15
E5216616		199	5.55	4.94	0.05	0.08	0.06	0.071	0.40	29.8	5.0	3.81	1780	0.73	0.01
E5216617		166	7.96	11.9	0.16	0.70	0.02	0.022	0.11	3.4	13.2	1.34	690	18.1	0.10
E5216618		169	4.26	4.12	<0.05	0.02	<0.01	0.046	0.27	4.9	8.5	1.65	1570	1.09	0.07
E5216619		69.4	5.39	8.30	<0.05	0.02	0.01	0.031	0.05	4.7	14.9	4.26	2320	0.46	0.01
E5216620		>10000	15.6	8.93	0.34	0.07	24.4	7.81	0.07	3.1	5.0	0.73	460	39.6	<0.01
E5216621		231	7.34	16.5	0.11	0.06	0.60	0.022	1.21	10.7	42.7	2.42	457	1.21	0.02
E5216622		10.6	3.26	0.74	<0.05	<0.02	0.02	0.014	0.07	4.9	0.4	2.50	1670	0.80	<0.01
E5216623		110	2.83	4.35	<0.05	0.07	0.02	0.022	0.40	1.4	4.8	0.83	647	6.08	0.09
E5216624		1210	15.5	6.87	0.25	0.13	0.01	0.024	0.29	12.7	5.6	0.62	591	5.89	0.08
E5216625		57.8	4.07	1.65	<0.05	<0.02	0.02	0.014	0.03	4.5	3.0	3.02	1730	3.91	<0.01
E5216626		77.6	2.89	2.53	<0.05	0.04	0.03	0.022	0.06	5.5	2.9	0.40	1720	2.09	<0.01
E5216627		62.8	4.51	2.18	<0.05	0.02	0.02	0.025	0.26	4.1	2.3	1.48	2010	1.66	0.01
E5216628		66.7	2.45	5.50	0.12	0.19	0.02	0.015	0.38	5.4	5.9	0.90	480	1.04	0.16
E5216629		25.6	4.44	4.31	0.13	0.19	0.02	0.045	0.45	84.8	6.3	1.44	1060	1.60	0.06
E5216630		3.5	0.42	2.14	0.08	0.81	0.01	<0.005	0.31	17.3	1.3	0.04	349	0.87	0.10
E5216631		176	2.96	7.28	0.11	0.25	0.01	0.019	0.19	7.3	6.7	0.76	386	3.87	0.28
E5216632		39.5	1.04	1.30	<0.05	<0.02	<0.01	0.015	0.21	6.2	0.6	0.13	2360	0.52	<0.01
E5216633		41.1	3.56	1.67	<0.05	<0.02	0.08	0.033	0.39	4.2	0.7	2.04	1260	0.85	0.02
E5216634		140	5.37	11.3	<0.05	<0.02	<0.01	0.036	0.10	9.2	16.2	2.61	1570	0.80	0.05
E5216635		11.5	5.85	1.16	<0.05	0.05	<0.01	0.017	0.17	2.4	0.7	3.99	2610	1.05	0.03
E5216636		60.3	3.80	1.19	0.08	0.13	0.02	0.085	0.16	7.5	0.4	0.11	231	0.77	0.18
E5216637		48.2	2.59	7.16	0.09	0.34	<0.01	0.021	0.27	18.4	6.6	0.65	654	2.47	0.21
E5216638		23.5	5.76	1.62	<0.05	<0.02	0.01	0.009	0.07	7.5	2.4	5.12	3220	0.34	<0.01
E5216639		15.2	5.83	0.73	<0.05	<0.02	<0.01	0.011	0.11	3.2	0.2	5.58	2430	0.93	<0.01
E5216640		21.9	2.01	4.21	0.10	0.34	0.03	0.019	0.08	5.8	7.1	0.54	330	3.48	0.07
E5216641		80.0	5.83	1.98	<0.05	0.02	0.04	0.025	0.19	1.6	5.9	1.30	1800	1.62	<0.01

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

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## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Sample Description	Analyte: Unit: RDL:	Cu ppm 0.1	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.1	Li ppm 0.1	Mg % 0.01	Mn ppm 1	Mo ppm 0.05	Na % 0.01
E5216642		195	6.79	5.34	0.10	<0.02	0.09	0.039	0.26	3.1	4.2	0.86	623	0.80	0.02
E5216643		76.7	4.03	1.70	<0.05	0.02	0.01	0.029	0.29	3.8	2.0	3.57	1380	0.47	0.02
E5216644		1.6	0.31	1.72	0.09	0.59	0.01	<0.005	0.26	26.0	1.1	0.02	113	0.39	0.08
E5216645		99.1	4.99	10.8	0.16	0.23	0.01	0.024	0.06	4.3	10.1	1.44	972	4.80	0.06
E5216646		151	6.24	10.5	<0.05	0.03	0.01	0.056	0.03	8.0	21.5	2.92	1880	1.43	<0.01
E5216647		155	3.48	1.56	0.07	0.03	<0.01	0.035	0.10	8.4	1.4	0.55	651	2.07	0.10
E5216648		43.0	2.48	1.68	<0.05	<0.02	<0.01	0.012	0.01	4.7	3.2	2.51	1040	2.41	<0.01
E5216649		474	14.3	1.27	0.15	0.10	0.03	0.011	0.04	1.0	2.0	0.11	130	2.54	<0.01
E5216650		67.6	0.97	0.33	<0.05	<0.02	<0.01	0.010	<0.01	1.2	0.6	0.07	727	4.36	<0.01
E5216651		116	4.56	1.34	0.08	<0.02	<0.01	0.013	0.02	1.0	2.0	0.05	163	2.41	<0.01
E5216652		132	2.64	3.73	0.10	0.02	0.01	0.013	0.03	2.4	4.7	0.71	406	9.89	0.02
E5216653		211	3.21	1.64	0.09	<0.02	0.02	0.012	0.02	1.4	3.2	0.30	576	14.1	<0.01
E5216654		90.5	1.59	0.35	0.08	<0.02	0.01	<0.005	<0.01	0.2	0.7	0.05	107	3.45	<0.01
E5216655		<0.1	0.48	0.13	<0.05	<0.02	<0.01	<0.005	0.02	0.2	<0.1	0.70	1070	0.32	<0.01
E5216656		30.4	1.02	0.96	0.07	<0.02	0.02	0.117	0.13	1.0	0.4	0.15	580	2.37	<0.01
E5216657		105	2.74	0.52	0.08	<0.02	<0.01	0.028	0.02	0.4	1.1	0.11	1730	1.75	<0.01
E5216658		426	1.12	0.40	<0.05	<0.02	<0.01	0.038	0.04	0.4	0.3	0.07	673	1.38	<0.01
E5216659		712	0.26	0.05	<0.05	<0.02	<0.01	<0.005	<0.01	<0.1	0.1	0.01	388	1.02	<0.01
E5216660		5620	8.74	5.77	0.11	0.24	7.92	2.93	0.08	6.2	5.5	0.69	482	25.3	0.05
E5216661		483	1.77	2.07	<0.05	0.05	0.09	0.041	0.18	0.9	2.8	0.27	1350	0.55	0.10
E5216662		130	3.59	5.51	0.07	0.13	0.05	0.037	0.32	8.3	10.3	1.01	943	11.4	0.03
E5216663		99.3	3.93	3.07	0.09	0.12	0.02	0.008	0.06	6.5	4.3	0.33	419	15.9	0.08
E5216664		2210	23.7	0.60	0.17	<0.02	2.78	2.80	0.01	0.2	0.1	0.12	979	2.35	<0.01
E5216665		40.5	1.50	2.15	0.08	0.18	0.06	0.026	0.15	30.5	1.9	0.18	571	1.25	0.12
E5216666		40.6	1.57	2.76	0.09	0.27	0.05	0.511	0.18	16.6	2.1	0.13	556	1.18	0.09
E5216667		144	5.59	4.25	0.12	0.43	0.03	0.103	0.12	10.5	4.1	0.26	334	1.23	0.07
E5216668		157	3.87	6.02	0.09	0.15	0.03	0.074	0.46	12.8	7.4	0.83	520	119	0.21
E5216669		43.5	1.57	4.12	0.09	0.38	0.01	0.008	0.12	12.5	3.4	0.32	407	1.09	0.08
E5216670		763	12.4	3.73	0.23	0.23	0.03	0.012	0.25	3.8	1.9	0.33	156	7.73	0.05
E5216671		283	6.64	6.17	0.17	0.33	0.01	0.010	0.06	6.0	4.7	0.40	134	5.20	0.09
E5216672		338	3.87	5.03	0.13	0.25	0.01	0.013	0.62	5.2	12.0	0.73	210	4.23	0.09
E5216673		263	4.70	8.21	0.12	0.26	0.01	0.015	0.84	7.2	14.3	1.41	657	0.89	0.15

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
Sample Description	RDL:													
E5216674	738	7.99	4.73	0.11	0.12	0.01	0.008	0.22	3.4	6.6	0.20	321	20.6	0.04
E5216675	126	2.99	3.19	<0.05	0.16	0.02	0.017	0.07	3.9	3.0	0.22	450	26.3	0.16

Certified By:



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DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.2	10	0.1	0.1	0.001	0.005	0.05	0.1	0.2	0.2	0.2	0.01	0.01
E5216610	0.17	1.7	707	5.3	4.4	<0.001	2.10	0.57	2.4	3.3	<0.2	263	<0.01	0.18
E5216611	0.19	1.0	171	25.9	7.0	<0.001	0.531	9.40	1.1	1.3	<0.2	54.7	<0.01	0.03
E5216612	0.57	1.7	1140	1.9	11.9	<0.001	0.658	0.20	7.0	0.8	0.4	96.6	<0.01	0.01
E5216613	0.10	3.0	380	2.2	7.5	<0.001	0.283	0.65	5.3	2.5	<0.2	238	<0.01	<0.01
E5216614	0.18	<0.2	17	0.8	0.4	<0.001	0.459	0.14	1.0	0.4	<0.2	1060	<0.01	<0.01
E5216615	0.14	0.9	470	24.4	7.5	<0.001	0.460	0.34	1.4	1.0	0.2	179	<0.01	1.19
E5216616	0.12	174	3550	7.1	15.8	<0.001	0.763	7.67	26.8	1.6	0.3	581	<0.01	0.07
E5216617	0.28	28.9	816	5.7	3.9	0.030	2.21	0.65	7.3	3.9	0.7	36.3	<0.01	0.02
E5216618	0.08	18.7	1080	24.6	13.2	0.001	0.503	3.13	25.4	1.4	<0.2	766	<0.01	0.01
E5216619	0.12	8.6	411	126	2.2	<0.001	0.275	2.13	12.3	4.5	<0.2	946	<0.01	0.02
E5216620	0.24	47.9	291	>10000	2.8	<0.001	19.8	270	1.5	192	127	46.0	<0.01	0.57
E5216621	0.12	13.7	3970	32.6	76.9	<0.001	2.85	8.90	46.1	3.6	1.0	237	<0.01	0.04
E5216622	0.25	3.8	343	4.0	2.9	0.002	0.796	1.08	4.1	1.1	<0.2	1690	0.02	0.02
E5216623	0.11	7.7	275	15.2	19.3	0.002	1.10	0.32	4.0	7.1	0.2	134	<0.01	21.4
E5216624	0.75	17.1	426	19.9	15.1	0.001	10.6	0.25	2.5	19.7	0.3	104	<0.01	7.61
E5216625	0.15	3.0	397	1.6	1.3	<0.001	0.390	0.49	3.6	1.5	<0.2	506	<0.01	0.13
E5216626	0.14	4.1	519	1.8	2.8	<0.001	0.562	0.19	10.2	1.0	<0.2	512	<0.01	0.13
E5216627	0.12	6.5	538	0.8	8.2	0.001	0.247	0.68	12.2	1.8	<0.2	439	<0.01	0.02
E5216628	0.23	6.4	819	2.1	13.3	0.001	0.196	0.34	4.9	0.8	0.2	165	<0.01	0.05
E5216629	0.18	14.5	2030	27.0	15.7	<0.001	0.300	1.07	7.7	0.4	0.3	371	<0.01	0.01
E5216630	0.39	1.5	47	21.8	20.2	<0.001	0.022	0.15	1.7	0.3	0.2	28.7	<0.01	0.01
E5216631	0.29	23.4	924	3.5	7.3	0.022	0.565	1.38	5.3	5.9	0.5	123	<0.01	0.11
E5216632	0.11	4.5	645	1.2	7.2	0.001	0.277	0.36	6.9	0.3	<0.2	518	<0.01	0.02
E5216633	0.05	5.1	604	2.5	7.6	0.001	0.266	0.30	26.0	0.7	<0.2	180	<0.01	0.03
E5216634	0.08	10.8	974	2.0	3.6	0.001	0.272	1.57	13.2	1.1	<0.2	344	<0.01	0.02
E5216635	0.13	0.8	370	3.0	4.5	<0.001	0.408	4.26	6.3	0.8	<0.2	1110	<0.01	0.05
E5216636	0.25	<0.2	263	8.3	3.0	<0.001	2.23	1.82	0.6	2.9	<0.2	80.1	<0.01	0.73
E5216637	1.85	1.2	658	17.5	4.5	0.001	0.991	0.31	3.2	1.6	0.4	177	<0.01	0.17
E5216638	0.21	0.5	205	0.9	3.0	<0.001	0.336	0.30	4.6	0.6	<0.2	1010	<0.01	<0.01
E5216639	0.20	<0.2	149	1.6	3.6	<0.001	0.375	7.86	3.6	0.5	<0.2	888	<0.01	0.07
E5216640	0.37	16.8	423	2.2	3.5	<0.001	0.053	0.34	4.7	0.3	0.3	32.1	<0.01	0.02
E5216641	0.08	4.3	441	1.1	6.3	<0.001	0.148	0.69	21.1	0.4	<0.2	127	<0.01	<0.01

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624  
PROJECT NO: FSPOK001

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.2	10	0.1	0.1	0.001	0.005	0.05	0.1	0.2	0.2	0.2	0.01	0.01
E5216642	0.06	11.9	766	2910	6.0	<0.001	3.26	8.29	9.2	12.3	<0.2	36.8	<0.01	0.14
E5216643	0.07	4.2	674	11.9	8.0	<0.001	0.240	1.38	11.9	0.5	<0.2	302	<0.01	0.02
E5216644	0.31	0.6	25	22.1	10.9	<0.001	0.015	0.13	1.0	0.2	<0.2	40.0	<0.01	<0.01
E5216645	0.14	4.4	901	144	1.5	0.002	0.434	0.34	8.5	1.8	0.3	57.2	<0.01	0.22
E5216646	0.09	29.5	1950	5.1	1.4	<0.001	0.186	1.29	43.6	1.3	0.4	350	<0.01	0.02
E5216647	0.06	7.0	1240	3.1	3.6	0.003	1.03	1.07	10.2	2.9	<0.2	131	<0.01	0.10
E5216648	0.15	22.5	373	1.5	0.6	0.002	0.346	0.87	4.3	0.5	<0.2	1250	<0.01	0.05
E5216649	0.21	11.7	72	4.5	1.1	0.001	11.1	0.61	0.8	11.3	<0.2	15.3	<0.01	54.2
E5216650	0.09	4.0	23	216	0.2	0.003	0.563	0.10	0.8	2.5	<0.2	69.6	<0.01	9.05
E5216651	0.11	3.8	70	4.5	0.7	<0.001	3.19	0.64	0.4	3.1	<0.2	10.5	<0.01	6.35
E5216652	0.09	5.8	274	5.6	1.5	0.009	0.910	0.20	5.5	1.9	<0.2	30.0	<0.01	0.13
E5216653	0.10	5.2	153	1240	0.6	0.011	1.85	0.13	2.6	11.3	<0.2	33.1	<0.01	24.4
E5216654	0.12	6.7	14	345	0.2	0.002	1.07	0.10	0.4	5.3	<0.2	9.6	<0.01	14.9
E5216655	0.18	0.3	<10	3.8	0.7	<0.001	0.425	<0.05	0.2	<0.2	<0.2	561	<0.01	0.05
E5216656	0.07	6.6	184	1.9	5.7	0.001	0.363	0.77	2.0	0.6	<0.2	37.3	<0.01	4.49
E5216657	0.11	4.3	43	1.8	0.9	<0.001	1.79	0.08	1.8	2.2	<0.2	47.0	<0.01	0.11
E5216658	0.08	1.5	38	2.0	1.3	<0.001	0.736	0.44	0.4	4.0	<0.2	177	<0.01	0.07
E5216659	0.09	1.6	10	6.3	<0.1	<0.001	0.244	0.15	0.2	1.0	<0.2	193	<0.01	0.05
E5216660	1.02	38.9	367	7470	3.6	0.017	9.83	112	3.1	82.3	53.8	37.5	<0.01	0.28
E5216661	0.21	4.4	479	10.8	4.9	<0.001	0.973	1.03	2.6	2.8	<0.2	810	<0.01	0.04
E5216662	0.08	37.8	1490	7.1	14.6	0.067	1.33	1.39	4.8	16.0	<0.2	278	<0.01	0.10
E5216663	0.18	2.8	511	8.5	2.6	0.006	2.19	0.22	2.7	1.8	<0.2	95.2	<0.01	0.06
E5216664	0.25	<0.2	239	97.2	0.6	0.002	23.9	32.9	0.3	166	0.4	24.1	<0.01	7.51
E5216665	0.74	0.8	295	4.4	4.9	<0.001	0.960	0.27	0.9	2.9	<0.2	133	<0.01	0.07
E5216666	0.54	0.3	344	2110	5.5	<0.001	1.14	0.69	0.9	3.4	<0.2	148	<0.01	0.80
E5216667	3.15	0.3	487	765	3.3	<0.001	3.72	0.98	1.3	3.5	0.3	71.1	0.01	2.69
E5216668	0.28	99.6	4340	34.4	35.1	0.078	2.38	2.78	13.6	24.9	0.4	154	<0.01	0.17
E5216669	2.55	1.8	566	12.4	4.4	<0.001	1.18	0.54	2.5	0.7	0.2	177	0.02	0.27
E5216670	0.88	25.2	600	4.1	16.3	0.009	12.6	0.47	2.6	37.8	0.3	63.2	<0.01	1.55
E5216671	0.53	11.9	721	3.7	2.8	0.004	6.00	0.37	5.1	21.1	0.3	220	<0.01	0.44
E5216672	0.58	14.5	886	3.5	46.8	0.006	2.86	0.17	4.6	6.7	0.4	77.0	<0.01	0.41
E5216673	0.60	17.0	1070	2.7	61.8	0.001	2.39	0.35	6.2	3.7	0.5	127	<0.01	0.22

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

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CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Sample Description	RDL:	0.05	0.2	10	0.1	0.1	0.001	0.005	0.05	0.1	0.2	0.2	0.2	0.01	
E5216674		0.13	7.4	72	8.8	10.1	0.003	4.83	0.97	0.9	10.5	<0.2	53.9	<0.01	0.95
E5216675		0.40	39.9	1070	5.9	5.0	0.037	1.64	2.86	3.5	41.0	0.2	748	<0.01	0.21

Certified By:



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DATE SAMPLED: Oct 19, 2011

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SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Zn-OL	Pb-OL
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
RDL:	0.1	0.005	0.02	0.05	0.5	0.05	0.05	0.5	0.5	0.01	0.01	0.05
E5216610	1.4	<0.005	0.03	0.64	26.1	0.08	4.88	37.6	10.4			
E5216611	2.6	0.006	0.03	1.05	20.4	<0.05	4.97	43.5	17.6			
E5216612	1.7	0.220	0.07	0.37	94.4	0.28	12.2	47.5	16.1			
E5216613	0.3	<0.005	0.03	0.36	44.8	<0.05	8.27	29.1	<0.5			
E5216614	<0.1	<0.005	<0.02	0.06	8.1	<0.05	12.0	4.9	<0.5			
E5216615	1.6	0.005	0.03	0.69	43.1	<0.05	4.49	440	10.1			
E5216616	2.5	0.009	0.32	0.62	157	2.98	30.4	124	4.4			
E5216617	1.1	0.400	0.06	0.70	262	0.34	15.3	128	36.4			
E5216618	0.7	0.008	0.11	0.19	97.4	0.07	13.9	77.6	0.8			
E5216619	0.4	0.008	0.03	0.09	129	<0.05	16.7	207	0.6			
E5216620	0.6	<0.005	32.4	3.17	26.5	0.99	4.62	>10000	4.1	1.31	8.45	1.63
E5216621	1.2	0.054	1.79	1.01	317	0.33	19.7	36.3	2.3			
E5216622	0.1	<0.005	0.04	0.08	35.6	0.07	8.97	21.2	<0.5			
E5216623	0.1	0.069	0.18	0.07	74.6	19.7	2.51	109	<0.5			
E5216624	0.5	0.125	0.08	0.26	69.3	1.23	4.36	36.9	2.8			
E5216625	0.4	<0.005	0.02	0.54	47.2	0.24	10.1	26.5	<0.5			
E5216626	0.4	0.007	0.02	0.22	101	0.14	14.8	27.9	0.8			
E5216627	0.4	0.012	0.09	0.24	84.5	0.14	16.4	30.9	1.0			
E5216628	0.6	0.300	0.08	0.31	91.2	0.46	7.99	45.4	6.0			
E5216629	9.7	0.010	0.12	1.94	63.4	0.06	15.5	80.3	14.1			
E5216630	17.6	<0.005	0.09	3.16	3.8	0.06	12.2	10.3	20.4			
E5216631	1.2	0.283	0.05	0.70	126	0.36	15.6	77.5	8.2			
E5216632	0.5	<0.005	0.04	0.16	29.2	0.10	9.61	17.8	<0.5			
E5216633	0.6	0.005	0.07	0.19	118	0.31	12.3	39.1	0.8			
E5216634	0.6	0.007	0.03	0.15	175	0.10	15.5	50.8	<0.5			
E5216635	0.7	<0.005	0.04	0.34	56.7	0.12	11.4	24.0	3.9			
E5216636	2.4	<0.005	0.04	1.29	21.2	0.09	2.67	470	6.0			
E5216637	3.1	0.109	0.02	0.85	147	0.49	6.20	64.0	14.4			
E5216638	0.2	<0.005	0.02	0.07	55.3	0.07	25.2	12.9	<0.5			
E5216639	0.1	<0.005	0.03	0.06	41.8	0.07	8.54	13.8	<0.5			
E5216640	0.9	0.127	0.05	0.25	53.6	25.4	7.68	29.0	9.1			
E5216641	0.2	<0.005	0.06	0.16	141	0.21	14.9	48.7	0.8			

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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http://www.agatlabs.com

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Zn-OL	Pb-OL
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
RDL:	0.1	0.005	0.02	0.05	0.5	0.05	0.05	0.5	0.5	0.01	0.01	0.05
E5216642	0.4	0.011	0.13	0.11	135	0.23	5.44	2410	<0.5			
E5216643	0.5	<0.005	0.06	0.11	97.3	0.11	9.18	49.9	1.1			
E5216644	12.2	<0.005	0.06	1.60	1.7	0.15	7.53	11.4	12.3			
E5216645	0.8	0.218	0.02	0.30	151	1.65	7.32	68.9	7.6			
E5216646	0.9	0.009	<0.02	0.19	218	0.20	11.9	79.8	<0.5			
E5216647	1.2	0.005	0.03	0.34	48.5	0.26	11.0	47.2	0.7			
E5216648	0.3	<0.005	<0.02	0.08	51.8	0.13	6.07	16.5	<0.5			
E5216649	0.3	0.006	<0.02	0.09	32.7	43.5	0.93	27.5	0.5			
E5216650	<0.1	<0.005	<0.02	<0.05	6.2	0.30	2.65	6.9	<0.5			
E5216651	0.3	<0.005	<0.02	0.13	20.0	2.60	0.59	11.9	<0.5			
E5216652	0.2	0.005	<0.02	0.07	60.7	1.14	2.19	34.2	1.3			
E5216653	0.1	<0.005	0.04	<0.05	30.5	1.11	3.26	29.2	<0.5			
E5216654	<0.1	<0.005	<0.02	<0.05	5.5	0.81	0.49	13.9	<0.5			
E5216655	<0.1	<0.005	<0.02	<0.05	7.7	<0.05	1.15	1.8	<0.5			
E5216656	0.1	<0.005	0.05	<0.05	16.2	0.63	2.01	296	0.6			
E5216657	<0.1	<0.005	<0.02	<0.05	10.7	0.20	0.76	7.5	<0.5			
E5216658	<0.1	<0.005	<0.02	<0.05	5.2	<0.05	1.37	39.4	<0.5			
E5216659	<0.1	<0.005	<0.02	<0.05	0.8	<0.05	0.06	24.9	<0.5			
E5216660	1.3	0.073	16.5	1.25	45.0	0.84	6.61	>10000	7.2		3.97	
E5216661	0.1	0.113	0.04	0.07	46.4	0.13	5.63	32.6	2.3			
E5216662	0.9	0.036	0.06	0.89	124	0.13	14.4	197	7.5			
E5216663	1.3	<0.005	<0.02	0.80	79.3	0.27	4.12	22.5	6.3			
E5216664	<0.1	<0.005	0.27	0.53	15.5	1.43	0.43	>10000	0.5		6.85	
E5216665	3.5	<0.005	0.03	0.79	20.5	0.14	5.24	254	11.5			
E5216666	3.3	<0.005	0.03	1.93	35.1	0.21	4.96	1880	16.3			
E5216667	4.6	0.046	0.03	1.36	89.9	1.14	4.82	1120	22.2			
E5216668	1.4	0.090	0.34	4.94	466	1.31	17.4	548	6.8			
E5216669	2.0	0.028	0.02	1.04	51.9	0.39	4.68	48.6	19.3			
E5216670	0.4	0.138	0.23	0.39	61.9	16.0	4.90	22.3	5.0			
E5216671	0.5	0.256	0.03	0.38	76.1	3.63	8.20	12.8	8.6			
E5216672	0.6	0.235	0.21	0.46	93.5	3.15	8.44	17.9	6.2			
E5216673	1.0	0.267	0.44	0.63	149	0.45	9.51	62.0	8.4			

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

5623 McADAM ROAD  
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CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Zn-OL	Pb-OL	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	
Sample Description	RDL:	0.1	0.005	0.02	0.05	0.5	0.05	0.05	0.5	0.5	0.01	0.01	0.05
E5216674		0.9	<0.005	0.09	1.16	62.1	0.64	1.63	54.1	6.2			
E5216675		0.6	0.082	0.17	0.83	57.0	0.51	11.0	96.9	5.7			

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

5623 McADAM ROAD  
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CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Fire Assay - Trace Au, ICP-OES finish (202052)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Sample Description	Analyte:	Sample	Au
	RDL:	Login Weight	ppm
	Unit:	kg	
E5216610		1.96	0.002
E5216611		1.62	0.025
E5216612		0.96	<0.001
E5216613		0.70	<0.001
E5216614		1.76	0.001
E5216615		1.50	0.189
E5216616		1.30	0.006
E5216617		1.28	0.005
E5216618		1.32	0.002
E5216619		0.86	0.004
E5216620		0.10	2.16
E5216621		0.44	0.008
E5216622		1.54	<0.001
E5216623		1.34	0.054
E5216624		1.30	0.095
E5216625		0.76	<0.001
E5216626		0.96	<0.001
E5216627		1.10	<0.001
E5216628		2.30	<0.001
E5216629		1.72	<0.001
E5216630		0.74	<0.001
E5216631		1.16	0.002
E5216632		0.56	0.005
E5216633		1.04	0.026
E5216634		0.90	<0.001
E5216635		1.20	0.009
E5216636		1.46	0.031
E5216637		1.22	0.011
E5216638		1.42	<0.001
E5216639		0.58	0.016
E5216640		0.10	0.031
E5216641		0.64	<0.001

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

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CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Fire Assay - Trace Au, ICP-OES finish (202052)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Sample Description	Analyte:	Sample	Au
	RDL:	Login Weight	ppm
	Unit:	kg	
E5216642		2.36	0.035
E5216643		0.80	<0.001
E5216644		0.80	<0.001
E5216645		1.10	0.162
E5216646		1.16	<0.001
E5216647		0.82	<0.001
E5216648		1.30	<0.001
E5216649		1.66	3.86
E5216650		0.84	0.768
E5216651		0.96	2.47
E5216652		0.76	0.008
E5216653		1.22	2.00
E5216654		0.80	1.25
E5216655		0.94	0.003
E5216656		1.26	1.45
E5216657		0.54	<0.001
E5216658		1.12	0.010
E5216659		1.26	0.003
E5216660		0.10	0.960
E5216661		0.56	0.019
E5216662		1.22	0.085
E5216663		0.54	0.002
E5216664		1.62	0.550
E5216665		1.26	<0.001
E5216666		0.98	0.007
E5216667		1.24	0.048
E5216668		1.30	0.104
E5216669		1.10	0.005
E5216670		1.60	0.071
E5216671		0.88	0.008
E5216672		1.04	0.004
E5216673		0.72	0.001

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

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CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

## Fire Assay - Trace Au, ICP-OES finish (202052)

DATE SAMPLED: Oct 19, 2011

DATE RECEIVED: Oct 19, 2011

DATE REPORTED: Nov 10, 2011

SAMPLE TYPE: Rock

Sample Description	Analyte:	Sample	Au
	Unit:	Login Weight	
	RDL:	kg	ppm
E5216674		0.01	0.001
E5216675		0.48	0.016
		0.60	0.003

Comments: RDL - Reported Detection Limit

Certified By:



## Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

Solid Analysis											
RPT Date: Nov 10, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817680	< 0.001	< 0.001	0.0%	< 0.001	0.0824	0.0849	97%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817660	< 0.001	< 0.001	0.0%	< 0.001	0.424	0.417	102%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817667	0.0093	0.0095	2.1%	< 0.001	0.937	0.922	102%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817680	< 0.001	< 0.001	0.0%	< 0.001				90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817693	0.019	0.017	11.1%	< 0.001				90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817699	0.048	0.047	2.1%	< 0.001				90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817707	0.003	0.053		< 0.001				90%	110%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1		119	158	28.2%	0.38				80%	120%
Al	1	2817637	0.352	0.355	0.8%	< 0.01				80%	120%
As	1		57.4	57.5	0.2%	0.9				80%	120%
Au	1		< 1	< 1	0.0%	< 1				80%	120%
B	1		13	15	14.3%	< 5				80%	120%
Ba	1	2817637	149	136	9.1%	< 1				80%	120%
Be	1		0.352	0.381	7.9%	< 0.05				80%	120%
Bi	1		0.284	0.294	3.5%	< 0.01				80%	120%
Ca	1	2817637	3.83	3.86	0.8%	< 0.01				80%	120%
Cd	1		0.272	0.252	7.6%	< 0.01				80%	120%
Ce	1		32.5	34.1	4.8%	< 0.01				80%	120%
Co	1		14.9	15.9	6.5%	< 0.1				80%	120%
Cr	1		36.1	40.0	10.2%	< 0.5				80%	120%
Cs	1		1.49	1.52	2.0%	< 0.05				80%	120%
Cu	1	2817637	21.5	20.3	5.7%	< 0.1	3697	3800	97%	80%	120%
Fe	1	2817637	2.21	2.23	0.9%	< 0.01				80%	120%
Ga	1		13.5	14.4	6.5%	< 0.05				80%	120%
Ge	1		0.155	0.196	23.4%	0.05				80%	120%
Hf	1		0.42	0.46	9.1%	< 0.02				80%	120%
Hg	1		1.87	1.41	28.0%	0.02				80%	120%
In	1		0.0488	0.0497	1.8%	< 0.005				80%	120%
K	1	2817637	0.17	0.17	0.0%	< 0.01				80%	120%
La	1		15.7	16.6	5.6%	< 0.1				80%	120%
Li	1		14.1	15.3	8.2%	< 0.1				80%	120%
Mg	1	2817637	0.13	0.13	0.0%	< 0.01				80%	120%



## Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)												
RPT Date: Nov 10, 2011		REPLICATE					Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD	Result Value		Expect Value	Recovery	Acceptable Limits		
										Lower	Upper	
Mn	1	2817637	656	644	1.8%	< 1				80%	120%	
Mo	1		4.89	5.19	6.0%	< 0.05				80%	120%	
Na	1	2817637	0.154	0.156	1.3%	< 0.01				80%	120%	
Nb	1		0.324	0.344	6.0%	< 0.05				80%	120%	
Ni	1	2817637	1.7	1.7	0.0%	< 0.2				80%	120%	
P	1	2817637	707	693	2.0%	< 10				80%	120%	
Pb	1		78.8	76.5	3.0%	< 0.1				80%	120%	
Rb	1		4.63	4.83	4.2%	< 0.1	12	13	93%	80%	120%	
Re	1		< 0.001	< 0.001	0.0%	< 0.001				80%	120%	
S	1	2817637	2.10	2.07	1.4%	< 0.005				80%	120%	
Sb	1		3.44	3.39	1.5%	< 0.05				80%	120%	
Sc	1		9.52	10.3	7.9%	< 0.1				80%	120%	
Se	1		3.71	3.81	2.7%	< 0.2	0.7	0.8	85%	80%	120%	
Sn	1		3.0	3.0	0.0%	< 0.2				80%	120%	
Sr	1		179	187	4.4%	< 0.2	330	390	85%	80%	120%	
Ta	1		< 0.01	< 0.01	0.0%	< 0.01				80%	120%	
Te	1		0.22	0.24	8.7%	< 0.01				80%	120%	
Th	1		3.14	3.32	5.6%	< 0.1	1	1.4	71%	80%	120%	
Ti	1	2817637	< 0.005	< 0.005	0.0%	< 0.005				80%	120%	
Tl	1		0.188	0.197	4.7%	< 0.02				80%	120%	
U	1		1.14	1.20	5.1%	< 0.05	0.9	0.8	114%	80%	120%	
V	1		175	189	7.7%	< 0.5				80%	120%	
W	1		0.49	0.50	2.0%	< 0.05				80%	120%	
Y	1		12.9	13.6	5.3%	< 0.05		7		80%	120%	
Zn	1	2817637	37.6	34.0	10.1%	< 0.5				80%	120%	
Zr	1		13.1	14.2	8.1%	< 0.5				80%	120%	
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)												
Ag	1	2817667	0.15	0.14	6.9%	< 0.01				80%	120%	
Al	1	2817667	0.424	0.434	2.3%	< 0.01				80%	120%	
As	1	2817667	96.5	95.3	1.3%	< 0.1				80%	120%	
Au	1	2817667	8	9	11.8%	< 1				80%	120%	
B	1	2817667	< 5	< 5	0.0%	< 5				80%	120%	
Ba	1	2817667	1190	1190	0.0%	< 1				80%	120%	
Be	1	2817667	0.153	0.144	6.1%	< 0.05				80%	120%	
Bi	1	2817667	0.03	0.03	0.0%	< 0.01				80%	120%	
Ca	1	2817667	12.2	12.2	0.0%	< 0.01				80%	120%	
Cd	1	2817667	0.10	0.10	0.0%	< 0.01	0.1	0.10	96%	80%	120%	
Ce	1	2817667	5.11	5.24	2.5%	< 0.01				80%	120%	
Co	1	2817667	4.1	4.1	0.0%	< 0.1	5.6	5.0	111%	80%	120%	
Cr	1	2817667	6.57	6.38	2.9%	< 0.5				80%	120%	
Cs	1	2817667	0.413	0.429	3.8%	< 0.05				80%	120%	
Cu	1	2817667	11.5	11.2	2.6%	< 0.1	3788	3800	99%	80%	120%	
Fe	1	2817667	5.85	5.82	0.5%	< 0.01				80%	120%	
Ga	1	2817667	1.16	1.14	1.7%	< 0.05				80%	120%	



## Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)												
RPT Date: Nov 10, 2011			REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD	Result Value		Expect Value	Recovery	Acceptable Limits		
										Lower	Upper	
Ge	1	2817667	< 0.05	< 0.05	0.0%	< 0.05				80%	120%	
Hf	1	2817667	0.05	0.05	0.0%	< 0.02				80%	120%	
Hg	1	2817667	< 0.01	< 0.01	0.0%	< 0.01				80%	120%	
In	1	2817667	0.017	0.017	0.0%	< 0.005				80%	120%	
K	1	2817667	0.174	0.177	1.7%	< 0.01				80%	120%	
La	1	2817667	2.4	2.4	0.0%	< 0.1				80%	120%	
Li	1	2817667	0.7	0.7	0.0%	< 0.1				80%	120%	
Mg	1	2817667	3.99	3.97	0.5%	< 0.01				80%	120%	
Mn	1	2817667	2610	2620	0.4%	< 1				80%	120%	
Mo	1	2817667	1.05	1.07	1.9%	< 0.05				80%	120%	
Na	1	2817667	0.03	0.03	0.0%	< 0.01				80%	120%	
Nb	1	2817667	0.129	0.138	6.7%	< 0.05				80%	120%	
Ni	1	2817667	0.8	0.8	0.0%	< 0.2				80%	120%	
P	1	2817667	370	359	3.0%	< 10				80%	120%	
Pb	1	2817667	2.97	2.94	1.0%	< 0.1				80%	120%	
Rb	1	2817667	4.55	4.58	0.7%	< 0.1	13	13	100%	80%	120%	
Re	1	2817667	< 0.001	< 0.001	0.0%	< 0.001				80%	120%	
S	1	2817667	0.408	0.400	2.0%	< 0.005				80%	120%	
Sb	1	2817667	4.26	4.22	0.9%	< 0.05				80%	120%	
Sc	1	2817667	6.29	6.23	1.0%	< 0.1				80%	120%	
Se	1	2817667	0.8	0.8	0.0%	< 0.2				80%	120%	
Sn	1	2817667	< 0.2	< 0.2	0.0%	< 0.2				80%	120%	
Sr	1	2817667	1110	1120	0.9%	< 0.2	300	390	77%	80%	120%	
Ta	1	2817667	< 0.01	< 0.01	0.0%	< 0.01				80%	120%	
Te	1	2817667	0.047	0.056	17.5%	< 0.01				80%	120%	
Th	1	2817667	0.7	0.7	0.0%	< 0.1	1.7	1.4	122%	80%	120%	
Ti	1	2817667	< 0.005	< 0.005	0.0%	< 0.005				80%	120%	
Tl	1	2817667	0.04	0.04	0.0%	< 0.02				80%	120%	
U	1	2817667	0.340	0.348	2.3%	< 0.05				80%	120%	
V	1	2817667	56.7	55.8	1.6%	< 0.5				80%	120%	
W	1	2817667	0.125	0.126	0.8%	< 0.05				80%	120%	
Y	1	2817667	11.4	13.7	18.3%	< 0.05		7		80%	120%	
Zn	1	2817667	24.0	22.9	4.7%	< 0.5				80%	120%	
Zr	1	2817667	3.9	3.9	0.0%	< 0.5				80%	120%	
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)												
Ag	1	2817683	0.442	0.457	3.3%	0.01				80%	120%	
Al	1	2817683	0.28	0.28	0.0%	< 0.01				80%	120%	
As	1	2817683	88.6	88.5	0.1%	0.2				80%	120%	
Au	1	2817683	184	327	< 1	< 1				80%	120%	
B	1	2817683	< 5	< 5	0.0%	< 5				80%	120%	
Ba	1	2817683	47	48	2.1%	< 1				80%	120%	
Be	1	2817683	< 0.05	< 0.05	0.0%	< 0.05				80%	120%	
Bi	1	2817683	9.74	9.37	3.9%	< 0.01				80%	120%	
Ca	1	2817683	0.32	0.32	0.0%	< 0.01				80%	120%	



## Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES  
PROJECT NO: FSPOK001

AGAT WORK ORDER: 11D540624  
ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)											
RPT Date: Nov 10, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
						Lower				Upper	
Cd	1	2817683	0.06	0.06	0.0%	< 0.01				80%	120%
Ce	1	2817683	1.74	1.74	0.0%	< 0.01				80%	120%
Co	1	2817683	10.4	10.3	1.0%	< 0.1				80%	120%
Cr	1	2817683	208	213	2.4%	< 0.5				80%	120%
Cs	1	2817683	0.14	0.14	0.0%	< 0.05				80%	120%
Cu	1	2817683	116	119	2.6%	< 0.1	3832	3800	100%	80%	120%
Fe	1	2817683	4.56	4.63	1.5%	< 0.01				80%	120%
Ga	1	2817683	1.34	1.33	0.7%	< 0.05				80%	120%
Ge	1	2817683	0.084	0.087	3.5%	0.07				80%	120%
Hf	1	2817683	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
Hg	1	2817683	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
In	1	2817683	0.013	0.012	8.0%	< 0.005				80%	120%
K	1	2817683	0.02	0.02	0.0%	< 0.01				80%	120%
La	1	2817683	1.0	1.0	0.0%	< 0.1				80%	120%
Li	1	2817683	2.0	2.0	0.0%	< 0.1				80%	120%
Mg	1	2817683	0.05	0.05	0.0%	< 0.01				80%	120%
Mn	1	2817683	163	165	1.2%	< 1				80%	120%
Mo	1	2817683	2.41	2.51	4.1%	< 0.05				80%	120%
Na	1	2817683	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Nb	1	2817683	0.11	0.11	0.0%	< 0.05				80%	120%
Ni	1	2817683	3.8	3.8	0.0%	< 0.2				80%	120%
P	1	2817683	70	72	2.8%	< 10				80%	120%
Pb	1	2817683	4.47	4.29	4.1%	< 0.1				80%	120%
Rb	1	2817683	0.7	0.7	0.0%	< 0.1	12	13	92%	80%	120%
Re	1	2817683	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
S	1	2817683	3.19	3.27	2.5%	< 0.005				80%	120%
Sb	1	2817683	0.64	0.61	4.8%	< 0.05				80%	120%
Sc	1	2817683	0.4	0.4	0.0%	< 0.1				80%	120%
Se	1	2817683	3.1	3.1	0.0%	< 0.2				80%	120%
Sn	1	2817683	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Sr	1	2817683	10.5	11.6	10.0%	< 0.2	293	390	75%	80%	120%
Ta	1	2817683	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2817683	6.35	6.07	4.5%	< 0.01				80%	120%
Th	1	2817683	0.3	0.3	0.0%	< 0.1				80%	120%
Ti	1	2817683	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Tl	1	2817683	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2817683	0.13	0.13	0.0%	< 0.05				80%	120%
V	1	2817683	20.0	20.5	2.5%	< 0.5				80%	120%
W	1	2817683	2.60	2.46	5.5%	< 0.05				80%	120%
Y	1	2817683	0.59	0.58	1.7%	< 0.05		7		80%	120%
Zn	1	2817683	11.9	12.4	4.1%	< 0.5				80%	120%
Zr	1	2817683	< 0.5	< 0.5	0.0%	< 0.5				80%	120%

Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)



## Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)										
RPT Date: Nov 10, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL			
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits
						Lower				Upper
Ag	1	2817693	0.38	0.23		< 0.01			80%	120%
As	1	2817693	1.3	0.1		< 0.1			80%	120%
Au	1	2817693	15	14	6.9%	< 1			80%	120%
B	1	2817693	846	832	1.7%	< 5			80%	120%
Ba	1	2817693	243	251	3.2%	< 1			80%	120%
Be	1	2817693	0.16	0.16	0.0%	< 0.05			80%	120%
Bi	1	2817693	0.05	0.02		< 0.01			80%	120%
Cd	1	2817693	0.63	0.33		< 0.01			80%	120%
Ce	1	2817693	2.04	2.18	6.6%	< 0.01			80%	120%
Co	1	2817693	19.1	19.3	1.0%	< 0.1			80%	120%
Cs	1	2817693	0.09	0.09	0.0%	< 0.05			80%	120%
Ga	1	2817693	2.07	2.04	1.5%	< 0.05			80%	120%
Ge	1	2817693	< 0.05	< 0.05	0.0%	< 0.05			80%	120%
Hf	1	2817693	0.05	0.05	0.0%	< 0.02			80%	120%
Hg	1	2817693	0.09	0.04		< 0.01			80%	120%
In	1	2817693	0.0407	0.0343	17.1%	< 0.005			80%	120%
La	1	2817693	0.93	1.00	7.3%	< 0.1			80%	120%
Li	1	2817693	2.75	2.72	1.1%	< 0.1			80%	120%
Mo	1	2817693	0.55	0.45	20.0%	< 0.05			80%	120%
Nb	1	2817693	0.213	0.205	3.8%	< 0.05			80%	120%
Pb	1	2817693	10.8	3.4		< 0.1			80%	120%
Rb	1	2817693	4.85	4.79	1.2%	< 0.1			80%	120%
Re	1	2817693	< 0.001	< 0.001	0.0%	< 0.001			80%	120%
Sb	1	2817693	1.03	0.812	23.7%	< 0.05			80%	120%
Sc	1	2817693	2.56	2.55	0.4%	< 0.1			80%	120%
Se	1	2817693	2.8	2.7	3.6%	< 0.2			80%	120%
Sn	1	2817693	< 0.2	< 0.2	0.0%	< 0.2			80%	120%
Ta	1	2817693	< 0.01	< 0.01	0.0%	< 0.01			80%	120%
Te	1	2817693	0.04	0.04	0.0%	< 0.01			80%	120%
Th	1	2817693	0.1	0.1	0.0%	< 0.1			80%	120%
Tl	1	2817693	0.04	< 0.02		< 0.02			80%	120%
U	1	2817693	0.07	0.07	0.0%	< 0.05			80%	120%
W	1	2817693	0.13	0.13	0.0%	< 0.05			80%	120%
Y	1	2817693	5.63	5.70	1.2%	< 0.05		7	80%	120%
Zr	1	2817693	2.3	1.4		< 0.5			80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)										
Ag	1	2817707	3.24	3.29	1.5%	< 0.01			80%	120%
As	1	2817707	81.4	16.8		< 0.1			80%	120%
Au	1	2817707	1	< 1		< 1			80%	120%
B	1	2817707	< 5	< 5	0.0%	< 5			80%	120%
Ba	1	2817707	41	43	4.8%	< 1			80%	120%
Be	1	2817707	0.199	0.215	7.7%	< 0.05			80%	120%
Bi	1	2817707	0.09	0.09	0.0%	< 0.01			80%	120%
Cd	1	2817707	3.26	3.32	1.8%	< 0.01			80%	120%
Ce	1	2817707	6.10	6.75	10.1%	< 0.01			80%	120%



## Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)										
RPT Date: Nov 10, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL			
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits
						Lower				Upper
Co	1	2817707	12.3	12.5	1.6%	< 0.1			80%	120%
Cs	1	2817707	0.333	0.340	2.1%	< 0.05			80%	120%
Ga	1	2817707	3.19	3.41	6.7%	< 0.05			80%	120%
Ge	1	2817707	< 0.05	< 0.05	0.0%	< 0.05			80%	120%
Hf	1	2817707	0.156	0.148	5.3%	< 0.02			80%	120%
Hg	1	2817707	0.017	0.015	12.5%	< 0.01			80%	120%
In	1	2817707	0.0168	0.0177	5.2%	< 0.005			80%	120%
La	1	2817707	3.90	4.36	11.1%	< 0.1			80%	120%
Li	1	2817707	3.0	3.1	3.3%	< 0.1			80%	120%
Mo	1	2817707	26.3	27.1	3.0%	< 0.05			80%	120%
Nb	1	2817707	0.40	0.49	20.2%	< 0.05			80%	120%
Pb	1	2817707	5.94	6.15	3.5%	< 0.1			80%	120%
Rb	1	2817707	5.0	5.2	3.9%	< 0.1			80%	120%
Re	1	2817707	0.037	0.039	5.3%	< 0.001			80%	120%
Sb	1	2817707	2.86	2.91	1.7%	< 0.05			80%	120%
Sc	1	2817707	3.5	3.8	8.2%	< 0.1			80%	120%
Se	1	2817707	41.0	41.0	0.0%	< 0.2			80%	120%
Sn	1	2817707	0.22	0.25	12.8%	< 0.2			80%	120%
Ta	1	2817707	< 0.01	< 0.01	0.0%	< 0.01			80%	120%
Te	1	2817707	0.212	0.202	4.8%	< 0.01			80%	120%
Th	1	2817707	0.6	0.6	0.0%	< 0.1			80%	120%
Tl	1	2817707	0.17	0.17	0.0%	< 0.02			80%	120%
U	1	2817707	0.832	0.910	9.0%	< 0.05			80%	120%
W	1	2817707	0.51	0.50	2.0%	< 0.05			80%	120%
Y	1	2817707	11.0	12.1	9.5%	< 0.05		7	80%	120%
Zr	1	2817707	5.7	5.4	5.4%	< 0.5			80%	120%

Certified By:





## Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12017		ICP-MS
Al	MIN-200-12017		ICP/OES
As	MIN-200-12017		ICP-MS
Au	MIN-200-12017		ICP-MS
B	MIN-200-12017		ICP/OES
Ba	MIN-200-12017		ICP-MS
Be	MIN-200-12017		ICP-MS
Bi	MIN-200-12017		ICP-MS
Ca	MIN-200-12017		ICP/OES
Cd	MIN-200-12017		ICP-MS
Ce	MIN-200-12017		ICP-MS
Co	MIN-200-12017		ICP-MS
Cr	MIN-200-12017		ICP/OES
Cs	MIN-200-12017		ICP-MS
Cu	MIN-200-12017		ICP-MS
Fe	MIN-200-12017		ICP/OES
Ga	MIN-200-12017		ICP-MS
Ge	MIN-200-12017		ICP-MS
Hf	MIN-200-12017		ICP-MS
Hg	MIN-200-12017		ICP-MS
In	MIN-200-12017		ICP-MS
K	MIN-200-12017		ICP/OES
La	MIN-200-12017		ICP-MS
Li	MIN-200-12017		ICP-MS
Mg	MIN-200-12017		ICP/OES
Mn	MIN-200-12017		ICP/OES
Mo	MIN-200-12017		ICP-MS
Na	MIN-200-12017		ICP/OES
Nb	MIN-200-12017		ICP-MS
Ni	MIN-200-12017		ICP-MS
P	MIN-200-12017		ICP/OES
Pb	MIN-200-12017		ICP-MS
Rb	MIN-200-12017		ICP-MS
Re	MIN-200-12017		ICP-MS
S	MIN-200-12017		ICP/OES
Sb	MIN-200-12017		ICP-MS
Sc	MIN-200-12017		ICP-MS
Se	MIN-200-12017		ICP-MS
Sn	MIN-200-12017		ICP-MS
Sr	MIN-200-12017		ICP-MS
Ta	MIN-200-12017		ICP-MS
Te	MIN-200-12017		ICP-MS
Th	MIN-200-12017		ICP-MS
Ti	MIN-200-12017		ICP/OES
Tl	MIN-200-12017		ICP-MS
U	MIN-200-12017		ICP-MS
V	MIN-200-12017		ICP/OES
W	MIN-200-12017		ICP-MS
Y	MIN-200-12017		ICP-MS



## Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540624

PROJECT NO: FSPOK001

ATTENTION TO: RICHARD BECK

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Zn	MIN-200-12017		ICP-MS
Zr	MIN-200-12017		ICP-MS
Cu-OL	MIN-200-12032		AA
Zn-OL	MIN-200-12032		AA
Pb-OL	MIN-200-12032		AA
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

## **Appendix II: Lab Methodologies**



# Mining Division **SPECIFICATIONS**



# **AGAT** Laboratories

Service Beyond Analysis ■ [www.agatlabs.com](http://www.agatlabs.com)



# MINING DIVISION SPECIFICATIONS

**AGAT Method Code:** 201 074

**AGAT SOP:** MIN-200-12018

**Method Description:** This uses the Aqua Regia Digestion technique and the ICP-OES/ICP-MS.

Solubility of elements can be dependent on the mineral species present and as such, data reported from the aqua regia leach should be considered as representing only the leachable portion of a particular analyte.

**Sample split size:** 1 g

## Steps

1. Aqua Regia Digestion
2. Prepared samples are digested with Aqua Regia for one hour using temperature controlled hot blocks.
3. Resulting digests are diluted to 50 mL with de-ionized water.
4. To finish, ICP-OES/ICP-MS instrumentation are used for analysis

Blanks, sample replicates, duplicates and internal reference materials, both aqueous and geo-chemical standards are routinely used as part of AGAT Laboratories quality assurance program.

## Instrumentation and Techniques

- PerkinElmer 7300DV and 8300DV ICP-OES instruments and PerkinElmer 9000 and PerkinElmer NexION ICP-MS instruments are used in the analysis.
- Inter-Element Correction (IEC) techniques are used to correct for any spectral interferences.



**AGAT Method Code:** 202 052, 202 054

**AGAT SOP:** MIN-200-120006

**Method Description:** Lead Fusion Fire Assay with Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) are conducted to determine the content of gold, platinum and palladium in geological samples

**Sample split size:** 30 g

### Steps

- Prepared samples are fused using accepted fire assay techniques
- After the samples are cupelled and parted in nitric acid and hydrochloric acid

Blanks, sample replicates, duplicates and internal reference materials, both aqueous and geo-chemical standards are routinely used as part of AGAT Laboratories quality assurance program.

### Instrumentation Used

- PerkinElmer 7300DV and 8300DV ICP-OES instruments are used in the analysis.

**AGAT Method Code:** 202 064

**AGAT SOP:** MIN-200-120004

**Method Description:** Lead Fusion Fire Assay with Gravimetric finish are performed to find the determination of gold and silver in mineralogical samples.

**Sample split size:** 30 g

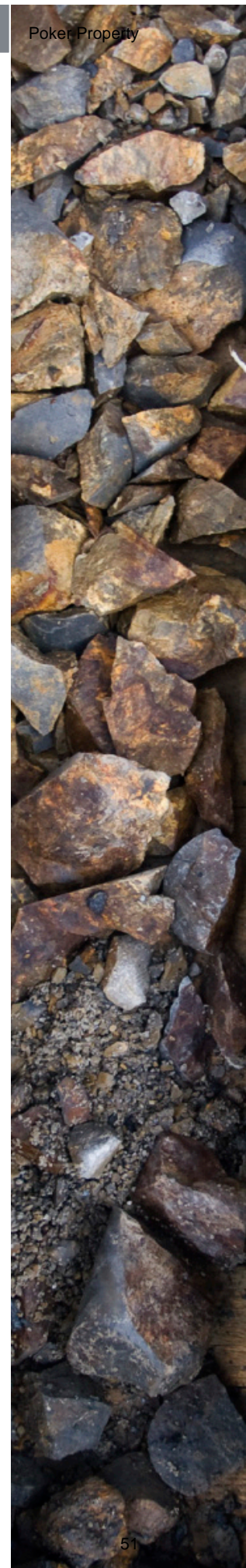
### Steps

- Prepared samples are fused using accepted fire assay techniques
- After the samples are cupelled and parted in nitric acid.

Blanks, sample replicates, duplicates, and internal reference materials (both aqueous and geo-chemical standards) are routinely used as part of AGAT Laboratories quality assurance program.

### Instrumentation Used

- Mettler Toledo XP6 microbalances are used in the analysis.





## Mining Division ▪ Terrace

**AGAT Method Code:** 226 022, 226 001, 226 006, 226 012

**AGAT SOP:** MIN-12008, MIN-12009, MIN-12010, MIN-12011, MIN-200-12012, MIN-12013, MIN-200- 12013

### Steps

1. Sample Reception – Laboratory Information Management System (LIMS)
2. Mining, drying of geological samples
3. Mining branches, crushing mineralogical samples
4. Mining branches, sample size reduction of mineralogical samples
5. Mining branches, milling of mineralogical samples
6. Standard operating procedure for compressed air usage
7. Compressed air usage – mining branches.

### Sample Reception

- Samples will arrive via courier, client drop-off or picked up by AGAT Laboratories or an AGAT Laboratories representative.
- Samples are inspected and compared to the Chain of Custody (COC) and logged into the AGAT LIMS program.
- Deviations from the COC are noted in AGAT's Sample Integrity Report (SIR) and sent immediately to the client via email and posted on the clients AGAT webMINING account.

**Drying:** Specified samples are dried to 60°C.

**Crushing and Splitting:** Unless instructed by the client, specified samples are crushed to 75 per cent passing 10 mesh (2mm) and split to 250 g using a Jones riffler splitter or rotary split.

**Pulverizing:** Unless instructed by the client, specified samples are pulverized to 85 per cent passing 200 mesh (75µm).

**Screening:** After drying specific sample are shaken on an 80 mesh sieve with the plus fraction stored and the minus fraction sent to the laboratory for analysis.

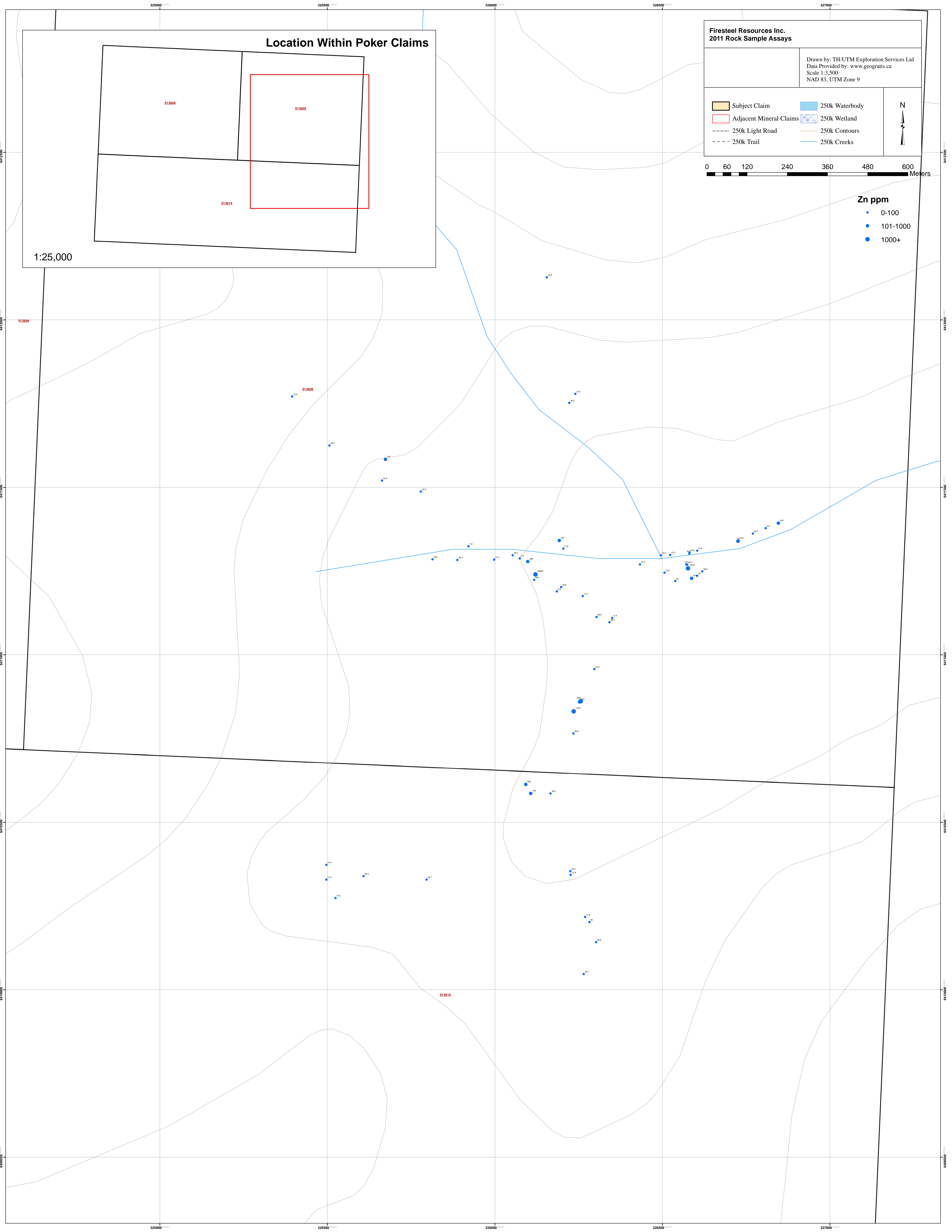
All equipment are cleaned using quartz and air from a compressed air source. Blanks, sample replicates, duplicates, and internal reference materials (both aqueous and geochemical standards) are routinely used as part of AGAT Laboratories quality assurance program.

### Instrumentation Used

- Rocklabs Boyd Crusher with RSD Combo, TM Terminator Crushers, TM TM-2 Pulverizers are routinely used in sample preparation procedures.

## **Appendix III: Geochemical Maps**





### Location Within Poker Claims

513604

513605

513614

1:25,000

**Firesteel Resources Inc.**  
**2011 Rock Sample Assays**

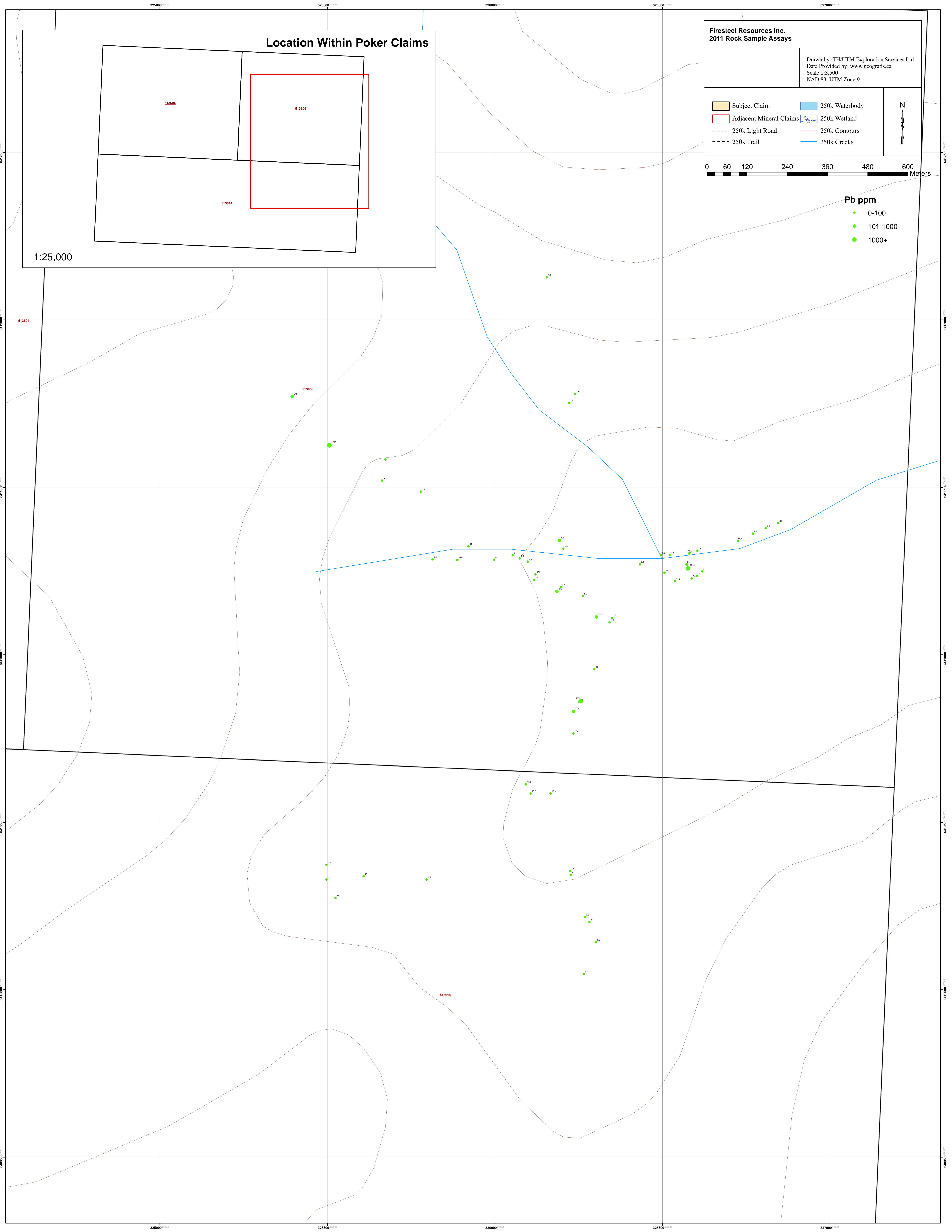
Drawn by: TH/UTM Exploration Services Ltd  
 Data Provided by: www.geogratia.ca  
 Scale 1:3,500  
 NAD 83, UTM Zone 9

Subject Claim	250k Waterbody
Adjacent Mineral Claims	250k Wetland
250k Light Road	250k Contours
250k Trail	250k Creeks

0 60 120 240 360 480 600 Meters

**Zn ppm**

- 0-100
- 101-1000
- 1000+



### Location Within Poker Claims

513604

513605

513614

1:25,000

**Firesteel Resources Inc.**  
**2011 Rock Sample Assays**

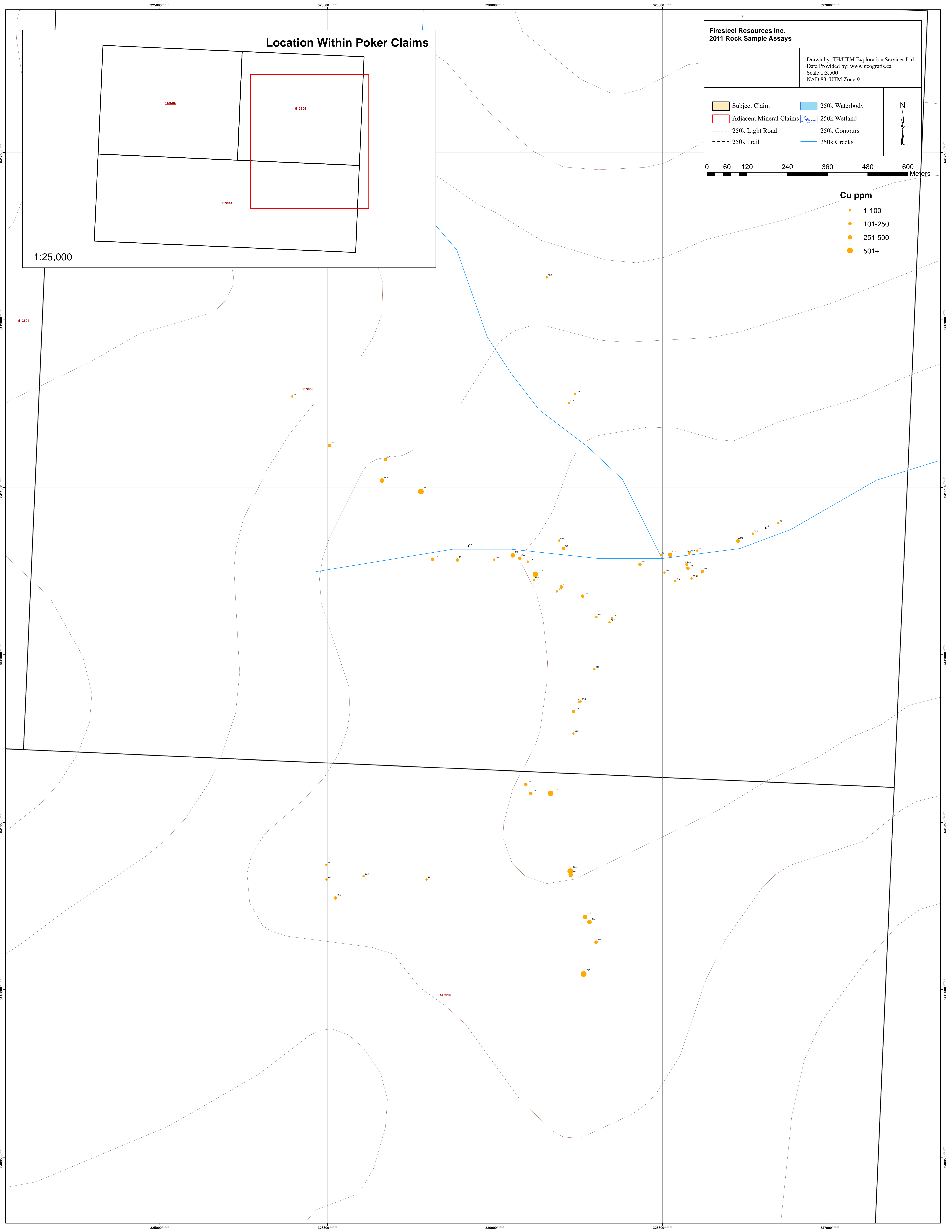
Drawn by: TH/UTM Exploration Services Ltd  
 Data Provided by: www.geogratia.ca  
 Scale 1:3,500  
 NAD 83, UTM Zone 9

Subject Claim	250k Waterbody	 N
Adjacent Mineral Claims	250k Wetland	
250k Light Road	250k Contours	
250k Trail	250k Creeks	

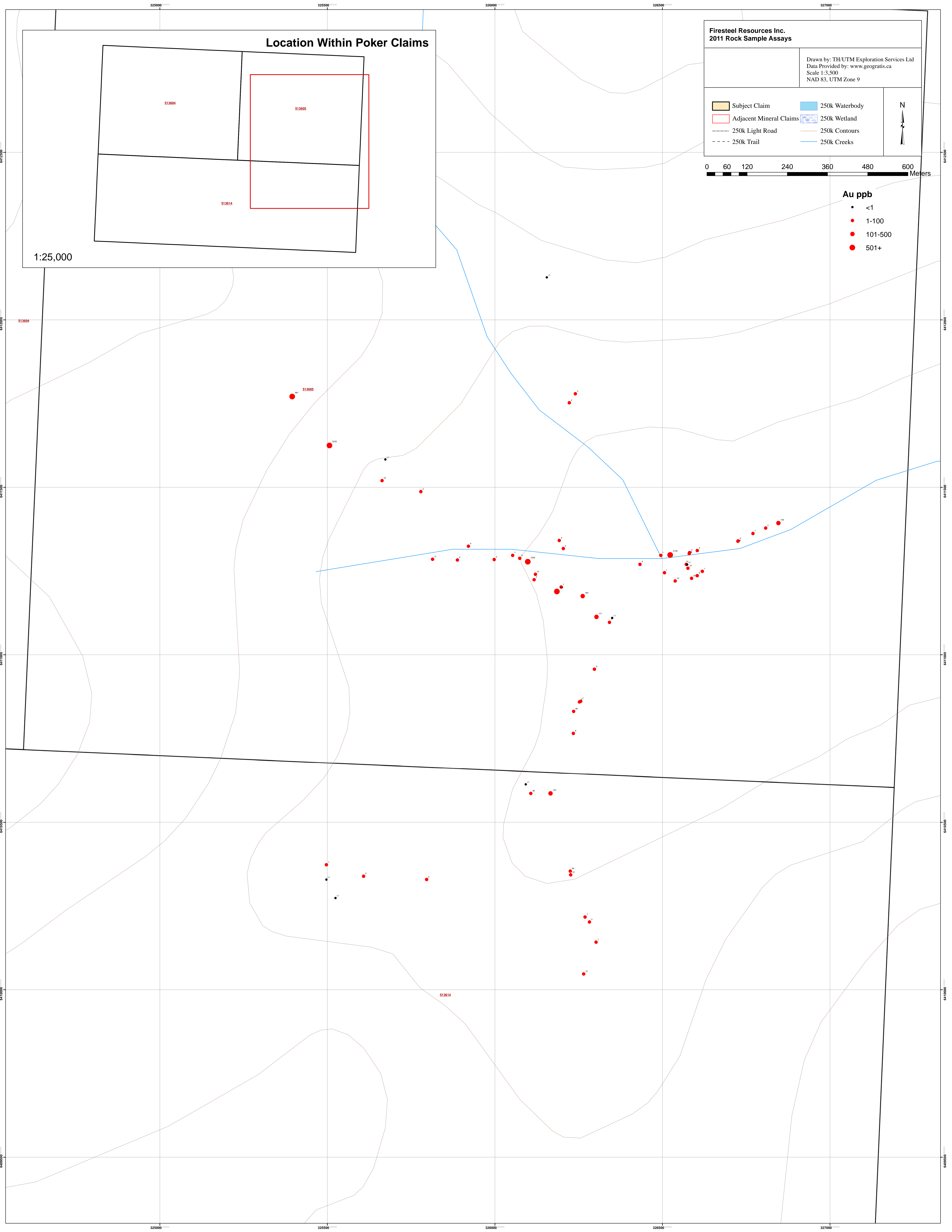
0 60 120 240 360 480 600 Meters

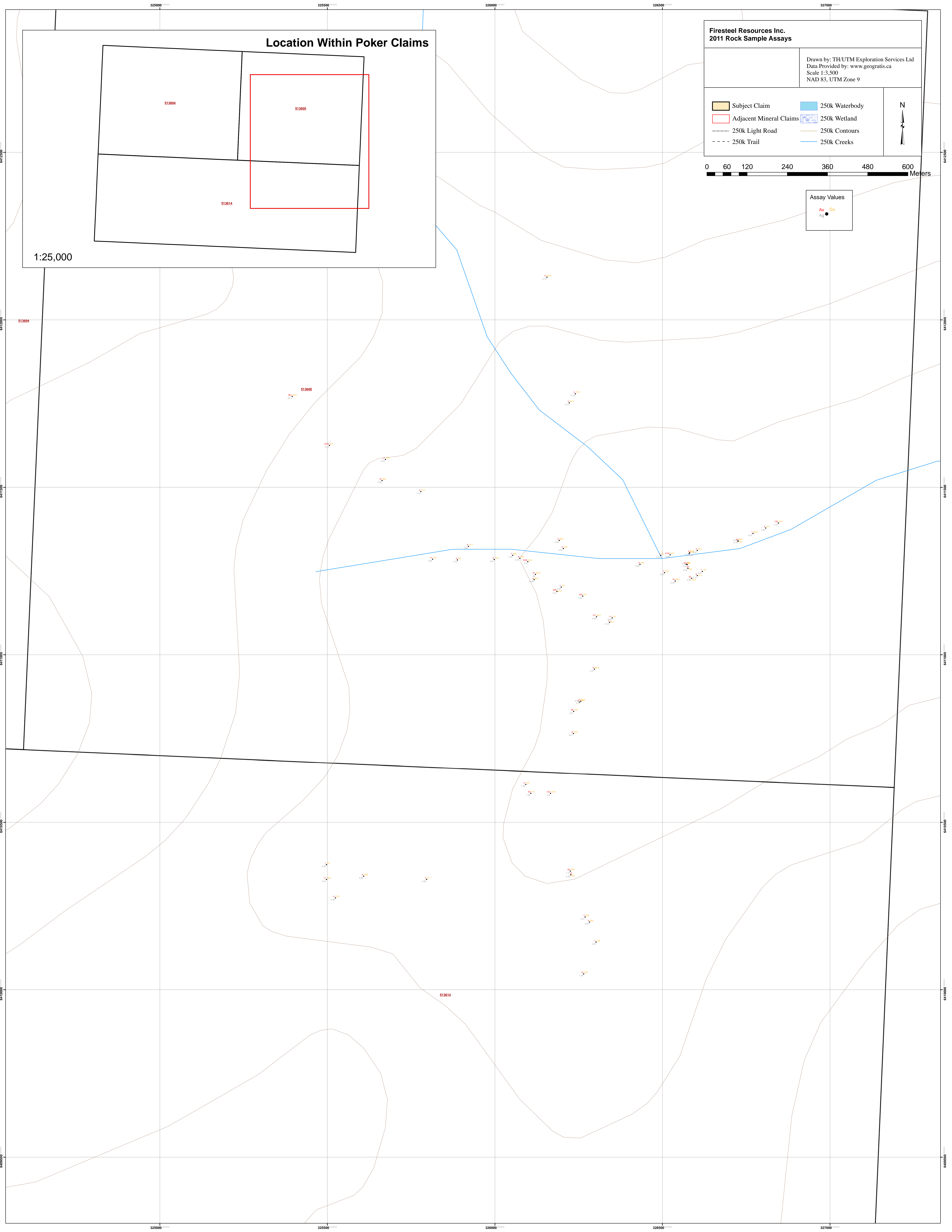
**Pb ppm**

- 0-100
- 101-1000
- 1000+









**Firesteel Resources Inc.**  
**2011 Rock Sample Assays**

Drawn by: TH/UTM Exploration Services Ltd  
Data Provided by: www.geogratia.ca  
Scale: 1:3,500  
NAD 83, UTM Zone 9

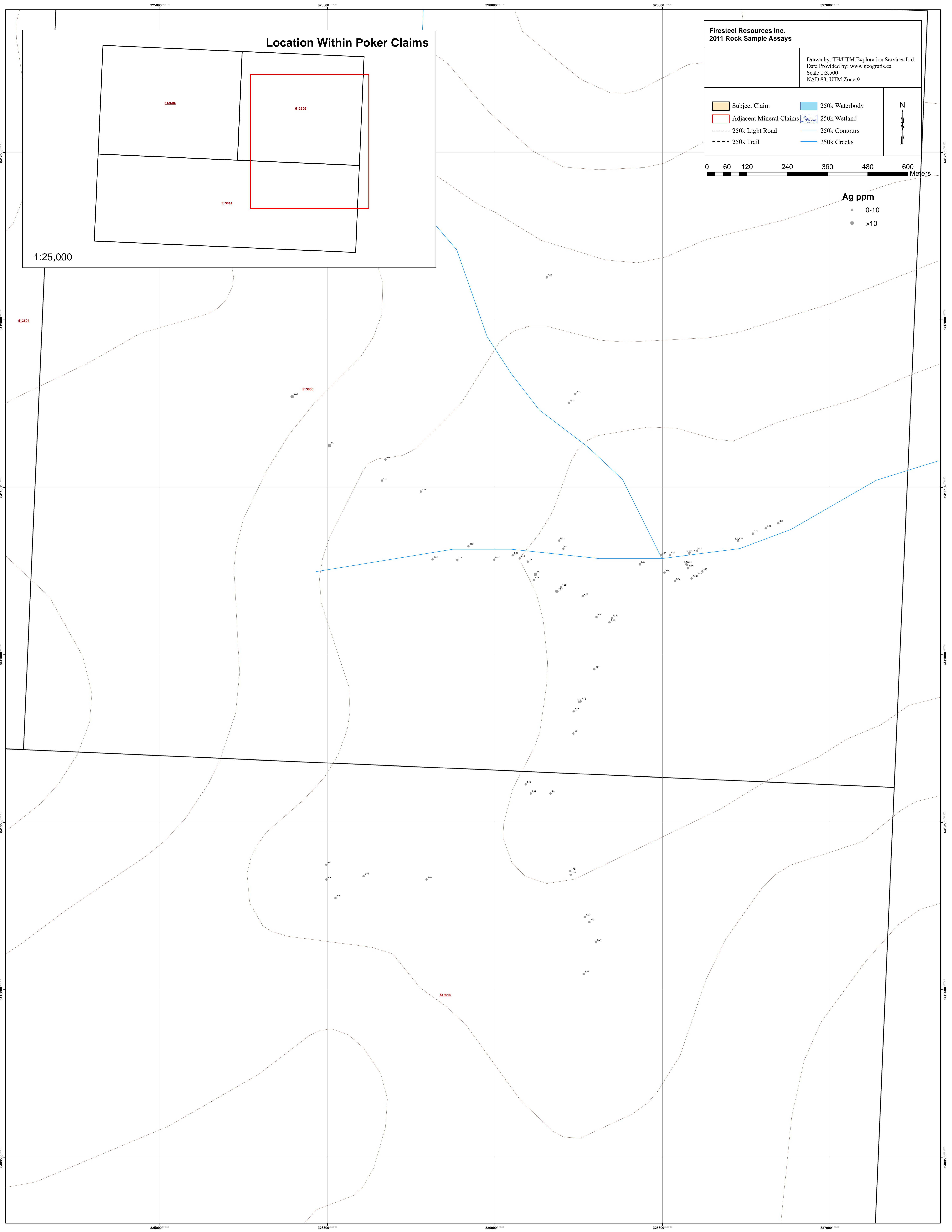
Subject Claim	250k Waterbody
Adjacent Mineral Claims	250k Wetland
250k Light Road	250k Contours
250k Trail	250k Creeks

N  
↑

0 60 120 240 360 480 600 Meters

#### Assay Values

Au Cu  
● ●



### Location Within Poker Claims

513604

513605

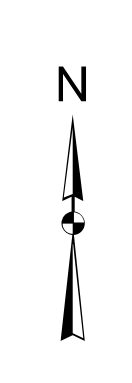
513614

1:25,000

**Firesteel Resources Inc.**  
**2011 Rock Sample Assays**

Drawn by: TH/UTM Exploration Services Ltd  
 Data Provided by: www.geogratia.ca  
 Scale 1:3,500  
 NAD 83, UTM Zone 9

- Subject Claim
- Adjacent Mineral Claims
- 250k Light Road
- 250k Trail
- 250k Waterbody
- 250k Wetland
- 250k Contours
- 250k Creeks



0 60 120 240 360 480 600 Meters

**Ag ppm**

- 0-10
- >10

## **Appendix IV: Field Notes**



Poker Prospecting Samples:

				Au	Cu	Mo	Pb	Zn	Cu-OL	Zn-OL	Pb-OL
				ppb	ppm	ppm	ppm	ppm	%	%	%
Sample #	Easting	Northing	B/S/O								
E5216610	326580	6411302	boulder	8	21.5	1.93	5.3	37.6			
E5216611	326581	6411305	boulder	2	14.6	0.73	25.9	43.5			
E5216612	326604	6411311	boulder	2	24.3	0.53	1.9	47.5			
E5216613	326770	6411362	boulder	1	36.9	2.2	2.2	29.1			
E5216614	326808	6411378	boulder	2	<0.1	0.33	0.8	4.9			
E5216615	326846	6411393	boulder	135	36.7	2.57	24.4	440			
E5216616	326725	6411339	boulder	8	199	0.73	7.1	124			
E5216617	326726	6411340	boulder	2	166	18.1	5.7	128			
E5216618	326204	6411317	outcrop	4	169	1.09	24.6	77.6			
E5216619	326192	6411341	outcrop	4	69.4	0.46	126	207			
E5216620			STD6	497	>10000	39.6	>10000	>10000	1.31	8.45	1.63
E5216621	325888	6411283	outcrop	4	231	1.21	32.6	36.3			
E5216622	325998	6411284	outcrop	4	10.6	0.8	4	21.2			
E5216623	326107	6410586	boulder	46	110	6.08	15.2	109			
E5216624	326166	6410586	boulder	123	1210	5.89	19.9	36.9			
E5216625	326222	6411752	outcrop	2	57.8	3.91	1.6	26.5			
E5216626	326240	6411779	outcrop	3	77.6	2.09	1.8	27.9			
E5216627	326155	6412127	outcrop	<1	62.8	1.66	0.8	30.9			
E5216628	326117	6411224	outcrop	3	66.7	1.04	2.1	45.4			
E5216629	325608	6410339	outcrop	2	25.6	1.6	27	80.3			
E5216630	325497	6410373	outcrop	1	3.5	0.87	21.8	10.3			
E5216631	325524	6410274	outcrop	<1	176	3.87	3.5	77.5			
E5216632	325497	6410329	outcrop	<1	39.5	0.52	1.2	17.8			
E5216633	325796	6410329	boulder	2	41.1	0.85	2.5	39.1			
E5216634	326619	6411249	boulder	1	140	0.8	2	50.8			
E5216635	326604	6411236	boulder	8	11.5	1.05	3	24			
E5216636	326587	6411228	boulder	32	60.3	0.77	8.3	470			
E5216637	326538	6411220	boulder	10	48.2	2.47	17.5	64			
E5216638	326506	6411245	boulder	1	23.5	0.34	0.9	12.9			
E5216639	326571	6411270	boulder	10	15.2	0.93	1.6	13.8			
E5216640			BLANK	1	21.9	3.48	2.2	29			
E5216641	326574	6411269	boulder	<1	80	1.62	1.1	48.7			
E5216642	326576	6411258	boulder	27	195	0.8	2910	2410			
E5216643	326342	6411097	boulder	1	76.7	0.47	11.9	49.9			
E5216644	326350	6411110	boulder	<1	1.6	0.39	22.1	11.4			
E5216645	326303	6411113	boulder	117	99.1	4.8	144	68.9			
E5216646	326198	6411202	boulder	1	151	1.43	5.1	79.8			
E5216647	326433	6411270	boulder	3	155	2.07	3.1	47.2			



E5216648	326495	6411297	boulder	1	43	2.41	1.5	16.5			
E5216649	326523	6411298	boulder	2140	474	2.54	4.5	27.5			
E5216650	326185	6411189	boulder	846	67.6	4.36	216	6.9			
E5216651	326262	6411175	boulder	184	116	2.41	4.5	11.9			
E5216652	325814	6411285	boulder	11	132	9.89	5.6	34.2			
E5216653	325506	6411625	boulder	2220	211	14.1	1240	29.2			
E5216654	325395	6411771	boulder	961	90.5	3.45	345	13.9			
E5216655	325921	6411324	boulder	4	<0.1	0.32	3.8	1.8			
E5216656	326098	6411278	boulder	1050	30.4	2.37	1.9	296			
E5216657	326074	6411288	boulder	6	105	1.75	1.8	7.5			
E5216658	326053	6411297	boulder	7	426	1.38	2	39.4			
E5216659	325779	6411487	boulder	2	712	1.02	6.3	24.9			
E5216660			STD7	529	5620	25.3	7470	>10000		3.97	
E5216661	325663	6411520	boulder	15	483	0.55	10.8	32.6			
E5216662	325673	6411583	boulder	<1	130	11.4	7.1	197			
E5216663	326297	6410957	boulder	5	99.3	15.9	8.5	22.5			
E5216664	326121	6411240	boulder	21	2210	2.35	97.2	68500		6.85	
E5216665	326252	6410859	boulder	2	40.5	1.25	4.4	254			
E5216666	326256	6410861	boulder	7	40.6	1.18	2110	1880			
E5216667	326235	6410831	boulder	48	144	1.23	765	1120			
E5216668	326092	6410613	boulder	<1	157	119	34.4	548			
E5216669	326234	6410765	boulder	6	43.5	1.09	12.4	48.6			
E5216670	326225	6410354	boulder	64	763	7.73	4.1	22.3			
E5216671	326226	6410343	boulder	12	283	5.2	3.7	12.8			
E5216672	326269	6410217	boulder	7	338	4.23	3.5	17.9			
E5216673	326282	6410202	boulder	3	263	0.89	2.7	62			
E5216674	326265	6410047	boulder	12	738	20.6	8.8	54.1			
E5216675	326302	6410142	boulder	1	126	26.3	5.9	96.9			

Poker Structure:

Type	Easting	Northing	Strike	Dip	Comments
S0	326185	6411384	73	37	in greywacke
S0	325705	6411390	80	34	slate bed in graywacke
S0	326240	6411779	168	80	in greywacke
S0	325497	6410373	280	74	tuff outcrop in greywacke
S0	325524	6410274	50	25	in mudstone/slate
S0	326338	6410423	75	73	tuff-greywacke contact
* Note: all strikes and dips done using right hand rule ie strike 350 dip 50 would dip 50 to West and strike 135 dip 50 would dip 50 to the NE					

Poker Outcrop Samples:

Sample #	Easting	Northing	B/S/O	Description
E5216618	326204	6411317	O	wackestone with porphyritic alteration, limonite staining, some <1cm veins with very heavy limonite staining (originally calcite? - isolated calcite segments)
E5216619	326192	6411341	O	vein in wackestone with heavy limonite staining, 313 azimuth, fizzes weakly when scratched, isolated sections of 5mm calcite crystals, rest has been altered to dolomite? Staining is only along vein surfaces
E5216621	325888	6411283	O	alteration boudin in graywacke, 20cmx100cm, strong limonite alteration, some hematite alteration pervasive in rock, softened with respect to host rock
E5216622	325998	6411284	O	10cm calcite vein in graywacke, extensive limonite staining on vein surface
E5216625	326222	6411752	O	heavy limonite alteration in black graywacke, many isolated clasts? of unaltered graywacke in altered zone, unaltered clasts create grading at boundary, zone is 4m thick
E5216626	326240	6411779	O	heavy limonite alteration in black graywacke, many isolated clasts? of unaltered graywacke in altered zone, unaltered clasts create grading at boundary, zone is 15m thick, calcite veining present
E5216627	326155	6412127	O	gray graywacke with heavy limonite alteration in 2-3cm rind, calcite veining (<1cm)
E5216628	326117	6411224	O	heavily chloritized andesite prophyry with yellow-ish green quartz veining
E5216629	325608	6410339	O	light gray graywacke with 2mm malachite blebs and 0.3mm pyrite, heavy limonite staining on fracture surfaces and extending 1-2mm into rock, calcite veining (up to 5cm)
E5216630	325497	6410373	O	yellowish-white chert/tuff? outcrop with 1-2% 3mm clear quartz crystals and 1-2mm yellow unknown crystals, 8m thick (otherwise graywacke), 10-15cm hematite halo on outcrop (extending into graywacke)
E5216631	325524	6410274	O	15cm black mudstone/slate altered zone, heavy limonite and hematite staining, 0.3% 0.2mm pyrite crystals, host rock is similar (but without alteration)
E5216632	325497	6410329	O	80cm system of lenticular calcite veins in graywacke outcrop, thickest is 15cm, limonite staining on all surfaces (heaviest at interface with wall rock), black graywacke? intraclasts in calcite