Fall 2011 Technical Assessment Report for the Copper Creek Property

BC Geological Survey
Assessment Report
33282

Event #: 5158069

ATLIN MINING DIVISION, BRITISH COLUMBIA

NTS Map 104J 14
BCGS 104J022
UTM Coordinates (Zone 9 - NAD 83): 340000 E /6458500 N

September 26 – October 8, 2011

Report Prepared For:
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December 15, 2011

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Summary

In late September and early October 2011, UTM Exploration Services Ltd provided personnel to assist Firesteel Resources on their Copper Creek property, located approximately 110km west-southwest of Dease Lake, B.C. The goal of the field work was to map and sample two areas of interest identified by the co-occurrence of magnetic, IP chargeability, and soil sampling highs in the Dick Creek area.

During thirteen days on site, 98 grab samples were taken in order to determine which contain the highest concentrations of economic elements. Previous work had noted that there was no clear correlation between rock type and mineralization quality. Instead, it appears that proximity to the monzonite/andesite contacts is the best predictor of high copper concentrations (at least in the area west of Dick Creek). Some samples in proximity to lithology contacts returned as high as 17.2% copper.

Detailed geologic mapping was carried out in two areas identified by the co-occurrence of magnetic, IP chargeability, and soil sampling highs in the Dick Creek area. These two areas encompass approximately 2.5 sq km, and were separated by a swampy outcrop-free saddle between two hills.

Camp was situated on-site at a drill pad close to the equipment storage shack left behind from the 2008 drilling program in the Dick Creek area. This pad was the only site in the area sufficiently large for setting up camp. There was no water available in the immediate area, which necessitated bringing our full supply of camp water with us during mobilization.

Terms of Reference

Of the authors, Mr. Hammon personally visited and was on-site project manager during the September-October, 2011 field work. Ms. Ledwon has not yet visited the site but supervised all planning and work done on this property.

The Exploration History section was mainly quoted from previous Assessment Reports. Geochemical analyses were completed by AGAT Labs. Regional and local geology were quoted directly from previous Assessment Reports.

Property Description and Location

Accessibility and Infrastructure

The Copper Creek property is located in northwest British Columbia, approximately 110km west-southwest of Dease Lake, BC and 50km northwest of Telegraph Creek, on NTS Map Sheet 104J 14 and BCGS 104J022(Figure 1). The property is centred at 340000E and 6458500N, NAD 83, Zone 9.

Access to the CC property is by quad road from a local airstrip located about 8km away. This north-south airstrip is situated beside a local First Nations-owned hunting lodge, as well as 400m east of the Sheslay River. Rudy Day, the owner and local guide outfitter, has an ongoing agreement with Firesteel to make use of his facilities, including storage of drill core and various pieces of equipment (Ledwon, 2010).

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 (Ledwon, 2010).

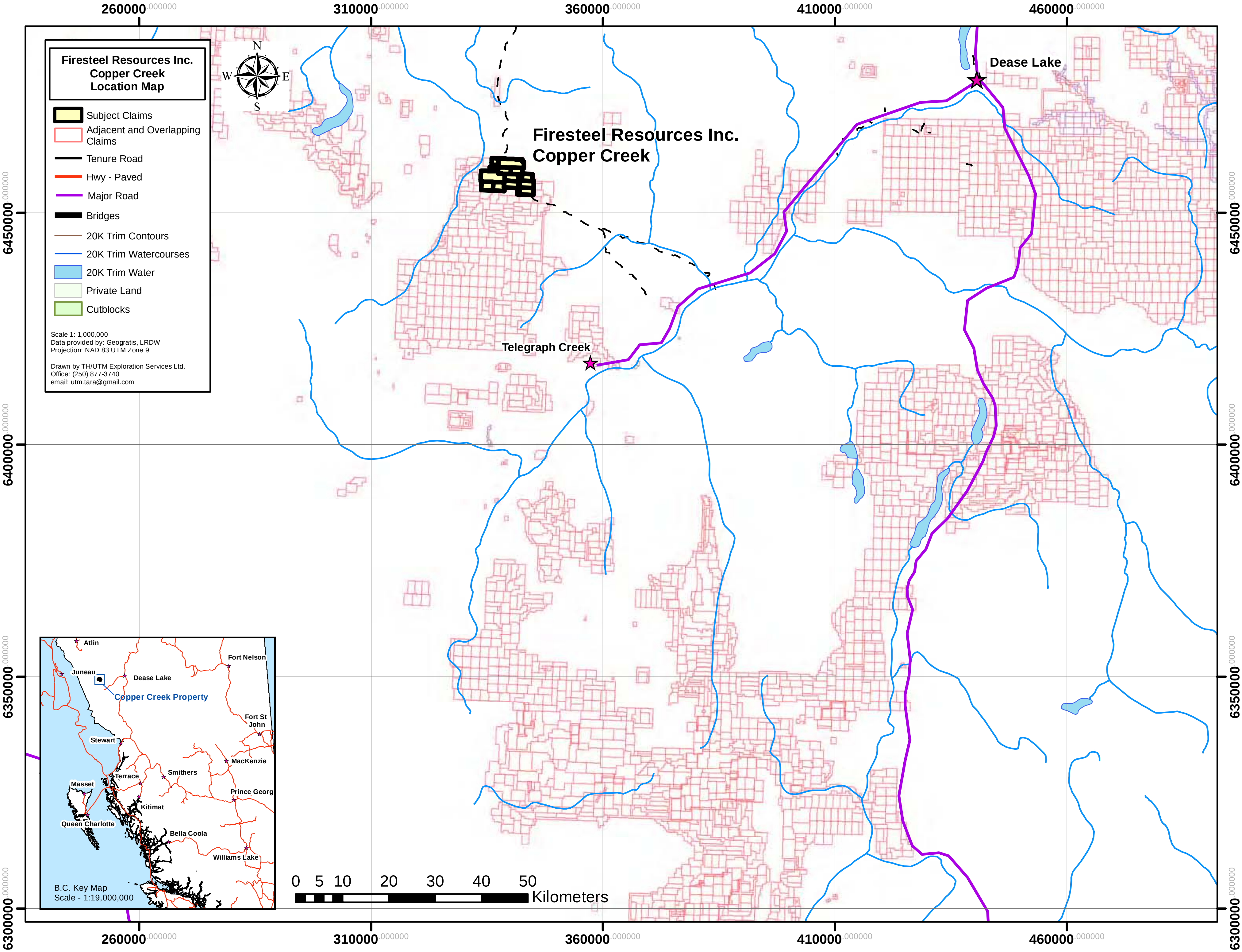

Figure 1. Copper Creek Location Map.

Mineral Tenure Information

The Copper Creek claims consist of 19 contiguous claims (Figure 2) amounting to approximately 7579.6 hectares (Table 1). Firesteel Resources Ltd owns 100% of all claims.

Table 1. Summary of Copper Creek Mineral Tenures.

Tenure Number	Claim Name	Owner	Tenure Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
392224	COPPER CREEK 1	133018 (100%)	Mineral	104J022	2002/mar/08	2012/jul/8	GOOD	450.0000
392225	COPPER CREEK 2	133018 (100%)	Mineral	104J022	2002/mar/08	2012/jul/8	GOOD	450.0000
400918	CC 2	133018 (100%)	Mineral	104J022	2003/mar/01	2012/jul/8	GOOD	500.0000
400921	PC 3	133018 (100%)	Mineral	104J022	2003/mar/01	2012/jul/8	GOOD	500.0000
400922	PC 4	133018 (100%)	Mineral	104J022	2003/mar/01	2012/jul/8	GOOD	500.0000
408884	CC 3	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	450.0000
408885	CC 4	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	450.0000
408887	CC 6	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	25.0000
408888	CC 7	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	25.0000
408889	CC 8	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	25.0000
408890	CC 9	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	25.0000
408891	CC 10	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	25.0000
408892	CC 11	133018 (100%)	Mineral	104J022	2004/mar/05	2012/jul/8	GOOD	25.0000
408893	CC 12	133018 (100%)	Mineral	104J022	2004/mar/13	2012/jul/8	GOOD	450.0000
518533		133018 (100%)	Mineral	104J	2005/jul/29	2012/jul/8	GOOD	204.2850

Tenure Number	Claim Name	Owner	Tenure Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
518534		133018 (100%)	Mineral	104J	2005/jul/29	2012/jul/8	GOOD	408.7180
518535		133018 (100%)	Mineral	104J	2005/jul/29	2012/jul/8	GOOD	1021.5650
518536		133018 (100%)	Mineral	104J	2005/jul/29	2012/jul/8	GOOD	1124.4330
551609	COPPER NORTH	133018 (100%)	Mineral	104J	2007/feb/11	2012/jul/8	GOOD	170.2900

Table 1 con't…

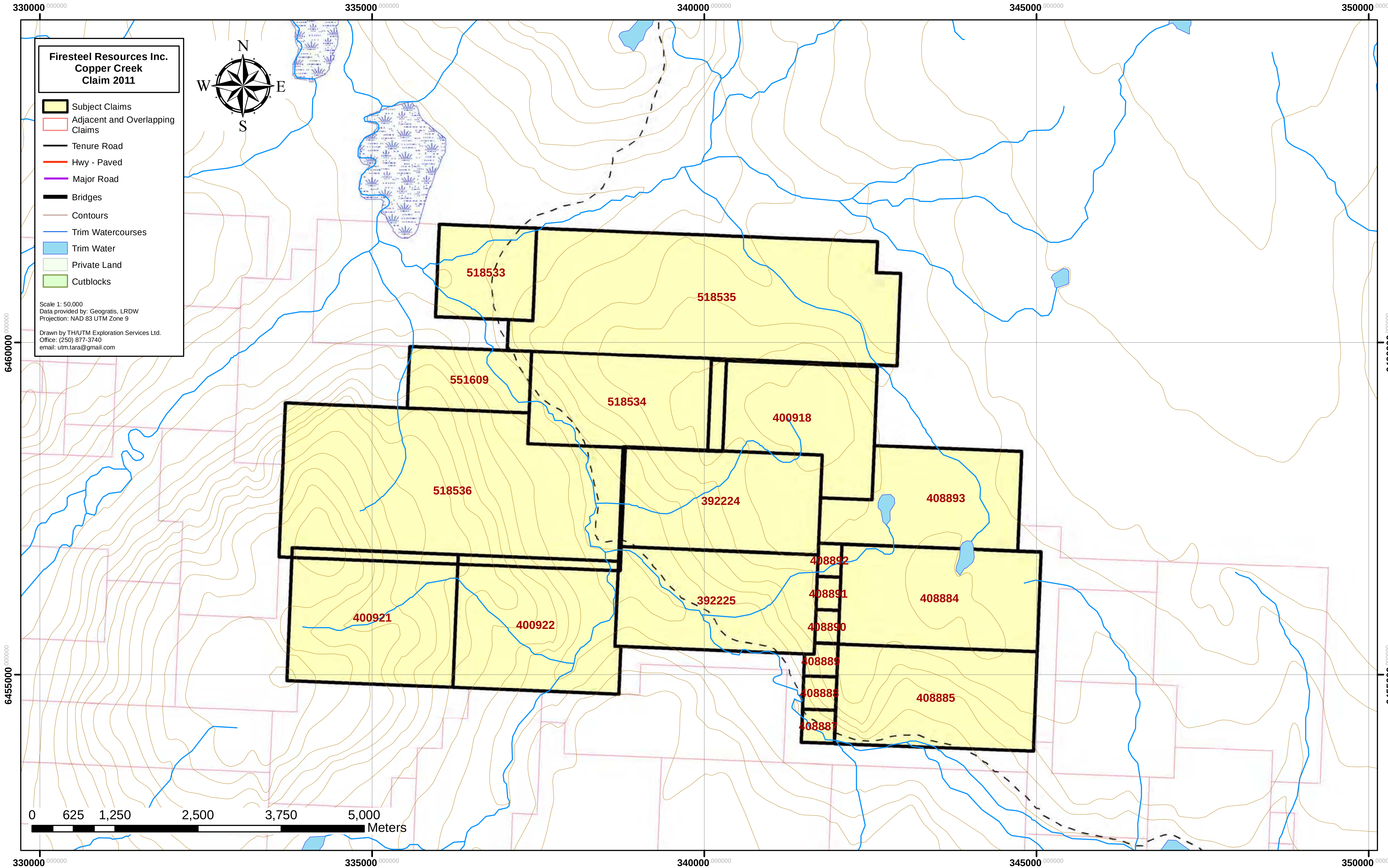

Figure 2. Copper Creek Claim Map.

Physiography and Climate (Young, 2008)

Topographic relief ranges from 720m above sea level (asl) at the bottom of the Hackett River Valley to over 1900m asl at the summit of Kaketsa Mountain in the SW corner of the claims.

The moderate to locally steep valley walls of the Hackett River valley generally give way to a plateau in the NE corner of the claims, where a few knobby hills reach elevations of 1250m.

The claims occur in an area of warm summers and cold winters, with low to moderate precipitation. The average annual snowfall is 138.0cm. This is in marked contrast to the rugged coastal mountain areas, 50km to the SW, which have much higher precipitation and glaciers.

The Hackett River valley has also been the scene of several forest fires in the past [including 2010]. The majority of the claims are covered by immature aspen, and at higher elevations the area is covered by small stunted trees. The treeline occurs at approximately 1400m asl on Kaketsa Mountain.

Water for drilling is available in side creeks and small pocket lakes which occupy linear depressions between the headwaters of Dick Creek and Copper Creek.

Exploration History (Young, 2008)

According to earlier assessment reports, the Copper Creek showing was first discovered in 1937. However the first documented exploration in the area of the showing occurred in 1955 when Brikon Explorations Ltd drilled four holes with an aggregate length of 149 meters to test the Copper Creek occurrence (104J005). Records and drill hole locations are not available.

From 1950 – 1964 Kennco and Newmont worked ground primarily to the west of the Copper Creek claims, near Sheslay River (104J 040) at the Kid (104 J 004), Grizzly (104J 016, Ho (104J 023) and West Kaketsa (104J 024) occurrences.

In 1964, Newmont exploration carried out an airborne magnetometer survey over an area that is covered by the Copper Creek claims of Firesteel Resources Inc. in 2003.

From 1958 to 1973, Skyline Explorations Ltd in conjunction with several joint venture partners, carried out grid geochemical sampling, ground geophysics (magnetics), geological mapping, and diamond drilling (6 holes, 1050m) on the Copper Creek occurrence presently covered by the Copper Creek 2 claim of Firesteel and the Pyrrhotite Creek occurrence (105J 018) (9 holes, 1097m) which in 2003 was covered by the PC 1-4 claims. During this period, an IP survey was conducted over the Pyrrhotite Creek showing area. The drilling was never filed for assessment but is mentioned in later reports. Most claims in the area expired in 1975 and 1976.

United Cambridge Mines restaked the Copper Creek prospect in 1976, and discovered the Dick Creek porphyry copper prospect (104J 005). During 1976 and 1977, United Cambridge carried out geological and geochemical survey work in the Dick Creek area covered in 2003 by the Copper Creek 1 claim. An extensive follow up program of 10 kilometer of bulldozer trenching and road construction was carried out as well.

In 1979, Utah Mines Ltd carried out line cutting, geochemical sampling and geophysical surveying (magnetics and IP) immediately south of the Firesteel's 2003 Copper Creek 2 claims.

Further evaluation of the area between the Dick Creek and Copper Creek mineral occurrences was carried out in 1980 by United Cambridge mines which included soil geochemistry and an IP geophysical survey. Further geological mapping and geochemical sampling was carried out by United Cambridge in this area during 1983 and 1984. A coincident gold-in-soil and IP anomaly was outlined between the Copper Creek and Dick Creek occurrences and an IP anomaly with scattered gold-in-soil values was outlined to the north of the Dick Creek occurrence. These anomalies were covered by Firesteel's Copper Creek property claims in 2003.

Between 1987 and 1989, United Cambridge Mines Ltd shifted their exploration work to the immediate south of the Copper Creek mineral claims in the area in which Utah had worked in 1979. Work included airborne geophysical surveys (magnetics and VLF), geochemical sampling and geological mapping.

In 1991, Golden Ring Resources Ltd commissioned Aerodat Limited to carry out 870 line kilometers of airborne geophysics over 22 claims (including the area covered by Firesteel's Copper Creek property). A data compilation of results of previous exploration programs within the project area was also carried out.

Follow up work (223 soils) in the vicinity of the gold-in-soil with coincident IP anomaly (which United Cambridge previously outlined in 1983-1984 between the Dick Creek and the Copper Creek occurrences) was carried out by Golden Ring Resources in 1992.

In 1996, Erin Ventures conducted 11.2 km of VLF-EM surveys on the North Dick Creek target – a total of 77 sol and 2 rock samples were taken. A VLF-EM and soil grid were completed in an area previously referred to as Helicopter Borne V.L.F. anomaly XV1, which outlined an area at least 60 meters wide by 365 meters long with copper in soils up to 8510 ppm and gold in soils up to 430 ppb. This area was referred to as the North Dick Creek. On the Dick Creek and East Dick Creek occurrences, drill sites were prepared to test the best conductive and geochemical anomalies but mechanical failures allowed for only 21 meters of drilling in four months.

The Cop 1-4 claims held by Paul Sorbara were allowed to lapse in April 2001. In March 2002, the Copper Creek 1 and 2 claims were staked on behalf of Dave Mehner, Adam Travis and Don Barker. In February 2003, the Copper Creek claims were optioned to Firesteel Resources Inc.

In October 2003, Firesteel Resources focused on a small portion of the property near the Dick Creek showing (MINFILE – 104 J 035) and work consisted of 10.5 line-kilometers of IP and magnetometer surveying and the collection of 460 soil geochemical samples along with partial resampling of two old (1977) trenches (25 chip samples) that had never been continuously sampled for gold.

In 2004, Firesteel Resources carried out a program of geological mapping, backhoe trenching, soil geochemistry and 1555 meters of diamond drilling in seven holes on the Copper Creek property, focusing on the DK zone. The best hole of the program, CUCR 04-05 was angled to the north and cut 0.44% copper and 0.32 grams/tonne gold averaged over its full length of 242 meters, the top 52.3 meters of the hole average 0.80% copper and 0.73 grams/tonne gold (Sutherland, Brown and Carter, 1975).

In 2005, Firesteel Resources completed drill holes totaling 1524 meters and trenched 500 meters in the DK porphyry copper prospect. Quartz stockwork, with chalcopyrite more abundant than pyrite, is developed across the intensely fractured intrusive contact over an area that now measure 500 meters by 500 meters in plan and 250 meters deep. Secondary copper minerals (malachite, azurite and sooty chalcocite) predominate in the upper 30-60 metres from the surface. Supergene copper enrichment is evident from assay data of some holes.

In 2006, Firesteel Resources conducted a further 100m of trenching in the Sevensma prospect areas as well as additional prospecting at selected areas within the property but the report was never published (McEwen, 2006).

In 2007, Firesteel drilled a total of 979.33m to extend known mineralization zones to depth. Additional drilling was done to re-drill and twin past holes. Assay results returned significant mineralization (see Young, 2008 for more detail).

In May of 2011 (prior to the work described herein), a limited program of backpack drilling and mapping was undertaken in order to verify high copper values previously identified on the hill to the northeast of Dick Creek. This area of fieldwork was encompassed within the eastern area of interested mapped and sampled later in 2011 (as described in this Assessment Report).

Geological Setting

Regional Setting (Young, 2008)

The Copper Creek property is located in an island arc setting within the intermontane region known as the Stikine Arch. This area is host to several alkalic porphyry Cu-Au-Mo deposits. In the general area of the property, Upper Triassic Stuhini Group andesitic flow rocks with subordinate sedimentary (tuffaceous) units are intruded by a bulbous, north-easterly elongated quartz diorite pluton. The Pluton is at least 1100m long and up to 550m in width and has a multitude of subsidiary dikes. The intrusions are lithologically similar to the nearby Kaketsa pluton and are, therefore, believed to be cogenetic and coeval with the main intrusion that underlies Kaketsa Mountain to the west (Panteleyev, 1981). The Kaketsa pluton is Late Triassic in age.

Local Geology (Lane, 2005 and Young, 2008)

The Copper Creek occurrence area is underlain by highly fractured, altered Upper Triassic Stuhini Group volcanic flow rocks are interbedded related tuffaceous sediments. Andesite and porphyritic andesite are the dominant rock types and are intruded by Late Triassic and Early Jurassic granodiorite, diorite and monzonite stocks, and monzonite-syenite dikes and sills. Andesitic to basaltic dikes have also been recognized.

Fracturing, shearing and faulting are extensive in and near the mineralized zone. There appears o be at least two shear/fault trends, northeast and northwest.

In the main mineralized area, disseminated and irregular veinlets of chalcopyrite, pyrite and pyrrhotite are associated with epidote-chlorite-actinolite alteration in limonitic volcanic rocks. Some garnet is also found in close association with the mineralization; it appears that the original volcanic sediments in this area were slightly limy to account for the formation of skarn minerals (Gutrath, 1969). Azurite and malachite are evident throughout the main zone. From two to five percent finely disseminated magnetite is associated with the chalcopyrite at the north end of the zone.

Pyrrhotite, with lesser amounts of pyrite and chalcopyrite and minor galena and sphalerite, occurs as massive lenses up to 0.9m wide and 3.6m long in the highly fractured and altered volcanics located to the southeast o the main mineralized zone. A representative sample of a massive 0.6m lens of this mineralization analyzed 1.04% copper, 0.6% lead, 1.84% zinc, 3.4 grams/tonne gold, and 30.8 grams/tonne silver (Gutrath, 1969).

In the area of the prospect, the main mineralization is exposed by trenches on the south-westerly and west-facing slopes immediately to the north of "Dick Creek". Dick Creek is a small, westerly flowing tributary of the Hackett River. In the trenches, mineralization is found near the eastern margin of a small quartz diorite intrusion.

North-westerly zones with crushed, clay-altered rocks form strong linear depressions, and the intervening rocks are broken by northeasterly trending fractures, joints and small faults. Country rocks are fine-grained andesite and porphyritic andesite or basaltic andesite.

Intrusions and adjoining country rocks are weakly hydrothermally altered to a propylitic assemblage. Saussuritization and chlorite-actinolite replacement of mafic minerals along with lesser epidote, calcite, magnetite and pyrite are the most widespread alteration type observed. The most pronounced alteration in outcrop is caused by near-surface weathering and oxidation. This supergene alteration results in a partially leached capping of clay altered limonitic rocks up to a few metres in thickness. The rocks are fine granular assemblages of quartz, albite, gypsum, zeolite, muscovite, clay minerals, chlorite, limonite and pyrite. These rocks are more abundant where faults and fractures are most strongly developed. Locally, jarosite and stilbite are present.

The "Dick Creek" showings are similar to other known copper showings associated with the Kaketsa pluton. However, in this locality disseminated chalcopyrite and bornite are more widespread in the quartz diorite intrusion than in the other areas. In the northerly trenches, where weathering and oxidation are most pronounced, mineralization consists of black copper oxide, malachite, brochantite and cupriferous limonite. In the southerly, downhill trenches where rocks are less weathered, mineralization comprises disseminated chalcopyrite and traces of bornite, as well as fracture-controlled malachite and azurite. Where chalcopyrite and bornite are abundant, magnetite is present but pyrite is relatively subordinate or absent. Most commonly, chalcopyrite occurs along or together with pyrite. There appears to be a broad diffuse zone or halo of pyritic rocks surrounding the copper mineralized zone.

Pyrite is the dominant sulphide mineral in volcanic rocks surrounding the quartz diorite intrusion but overall pyrite content rarely exceeds 1%. Copper sulphides generally replace mafic minerals whereas pyrite is present both as disseminations and fracture filling. Distribution of mineralized outcrops and assays from tractor trenches show that areas with average copper contend in excess of 0.4% copper are relatively widespread.

Gold values are generally low (average 0.2 gram/tonne) but two samples analysed about 0.5 gram/tonne (Panteleyev, 1981).

Supergene mineralization is restricted to a thin oxidized capping under which there is no appreciable secondary copper sulphide enrichment zone. The copper minerals that have formed are copper oxides, carbonates, sulphates and supriferous limonites.

A second mineralized zone in volcanic rocks is located east of Dick Creek, about 500 metres east of the trenched showings. A grab sample of the skarn mineralization consisting of epidote, pyrite and fine-grained chalcopyrite and magnetite analyzed 0.72% copper (Schroeter, 1977).

Of particular economic importance is the fact that the area's Cu-Au mineralization extends to surface and is commonly only covered by a thin layer of overburden. Of further economic importance is the fact that a significant portion of the near-surface mineralization consisits of non-sulphide Cu (malachite, azurite and chalcocite), derived from the oxidation of chalcopyrite. In a few instances a portion of this non-sulphide Cu mineralization may reflect supergene enrichment.

The main control on mineralization appears to be structural, principally fracturing, shearing and faulting, which controlled emplacement of the disseminated and vein hosted chalcopyrite. The Cu-Au mineralization seems to display little or no preference for one rock type over another, or for one type of pervasive alteration over another, apart from a general association with quartz and pyrite alteration. About 60% of the chalcopyrite defined to date occurs as very fine to fine disseminations, which are commonly associated with fine disseminated pyrite. The ratio of chalcopyrite to pyrite is variable, and it is quite common for either one to be the dominant constituent. The disseminated chalcopyrite most often replaces mafic phenocrysts and small dark patches (shreddy biotite?), and to a lesser extent, magnetite grains and feldspar phenocrysts. The remaining 40% of the chalcopyrite occurs in hairline fractures, in veins millimeters to centimeters in width, and in breccia zones and knots. Here the chalcopyrite occurs by itself or in association with +/- quartz and/or pyrite. Chalcopyrite also occurs, to a lesser extent, in association with +/- magnetite, K-Spar, epidote, carbonate, ankerite, anhydrite and gypsum.

Many of the fractures and veins were filled as a single event, however, a portion of them underwent multiple periods of infilling, as evidenced by an abundance of vein selvages. An encouraging amount of very late stage carbonate veins, associated with +/- chalcopyrite, malachite, azurite, chalcocite and limonite, are also observed. Not surprisingly, unmineralized veins consisting of +/- quartz, magnetite, anhydrite, carbonate, etc, generally occur in far greater concentrations than the Cu-Au mineralized veins, and frequently display crosscutting relationships that suggest changing structural conditions over time.

Of particular importance is the fact that only mineralized dykes have been intersected by the drilling to date. No barren dykes have been observed. In fact, one of the more attractive intersections recorded is associated with a monzonite dyke (CC2004-05, 30.21m to 33.0m, 1.18% Cu, 1.20g/t Au). It is characterized by strong pervasive quartz flooding, and abundant disseminated chalcopyrite and pyrite in a lacy sulphide rich texture developed throughout the groundmass.

Mineralization and Alteration (Lane, 2005)

The area drill tested in 2004 is strongly altered in many locations, both at surface and in drill core. Petrographic work by PetraScience Consultants on a limited amount of altered drill core indicated the alteration to be typical of porphyry systems. It is characterized by quartz, shreddy biotite +/- K-felspar +/- magnetite. This potassic alteration is overprinted by chlorite +/- sericite, and a final late carbonate phase. The carbonates present include at least two compositions (calcite, and possible ankeritic carbonate) and occur as both disseminated grains and crosscutting veinlet infill. Gypsum is also present - possibly replacing anhydrite.

An abundance of pervasive quartz to vein quartz alteration was observed in drill core, especially in the westernmost holes, where intervals meters to tens of meter thick were altered to 70-90% quartz. In some places, especially where the quartz was banded, veined or brecciated, the alteration was associated with better than average Cu-Au mineralization. Elsewhere, however, strong, pervasive quartz alteration did not always ensure good Cu-Au values; in fact, it sometimes ensured the opposite. Magnetite alteration is moderately intense to very intense. It primarily occurred as very fine disseminations, in hairline fractures and in very thin veins. The greatest concentrations of magnetite noted to date occur in the laminated, flat lying tuffs. The tendency of chalcopyrite to be sometimes associated with magnetite may make it an important and useful exploration parameter.

The limited amount of petrographic work undertaken suggested an abundance of shreddy biotite (potassic) alteration; unfortunately, its' very fine grain size precluded early identification in core and outcrop. However, the tendency of disseminate chalcopyrite to occur ina dn around mafic minerals suggests that shreddy biotite will be/is an important alteration mineral to log in future drill holes. Minor to moderate amounts of potassium feldspar alteration as veins and patches was encountered in most drill holes. Disseminated and/or vein chalcopyrite was associated with the potassium feldspar in some places; however, in general it was not a preferred host for mineralization. Carbonate and anhydrite veins generally appear to represent later alteration events. However, their frequent association with moderate amounts of chalcopyrite and malachite suggests their occurrence should always be carefully noted. A discontinuous, moderate to strong pyrite halo exists around the mineralized area. However, a lot more exposure through trenching is needed before the boundary can be established with any certainty. Induced potential chargeability and resistivity results do not clarify the picture all that much, suggesting that the distribution of pyritic alteration is complex.

Structure (Lane, 2005)

A large proportion of the drilled area is very broken, fractured and faulted, which facilitated the emplacement of a significant portion of the Cu-Au mineralization, and later enabled its near surface oxidation. Good core recovery in the uppermost few meters to tens of meters of the broken ground was often quite challenging. Excavator trenching in similar ground conditions, however, was often very easy and quick to undertake. Most of the fault zones trend east-west, northwest and northeast, rarely north-south. Many of the fault zones are relatively easy to spot on surface because of their tendency to hold and channel surface water. This results in the growth of large spruce trees averaging up to 35 cm in diameter, that grow in very straight lines crosscutting areas of much shorter deciduous trees. This provides a very visual and convenient way to locate the fault zones. Some of the faults display very recent movement, as evidenced from displacements of top soil against altered rock.

Property Bedrock Mapping

Introduction

A two-person crew spent ten days both prospecting and mapping in two areas of interest in the vicinity of Dick Creek. These two areas were identified from the co-occurrence of magnetic, IP chargeability, and soil sampling highs (Figure 3). The western (larger) area contains the main area of drilling carried out immediately west of Dick Creek. The eastern area covers the hilltop to the northeast of Dick Creek.

Methodology

Mapping of the two areas of interest was primarily accomplished through the use of transects, with infill mapping being used in areas of specific interest or complex geology. This approach was necessitated by the geology of the area. The irregular nature of the intrusive igneous contact, as well as the low-profile of the available outcrop, precluded the use of more outcrop-centric mapping.

Lithology

The two areas of interest mapped during this field season consisted of layered andesite, porphyritic andesite, and andesitic tuffs. These volcanics had been intruded by a regional diorite and monzonite pluton. The contact between the two is quite irregular and does not seem to follow either bedding or fracture planes (Figure 4).

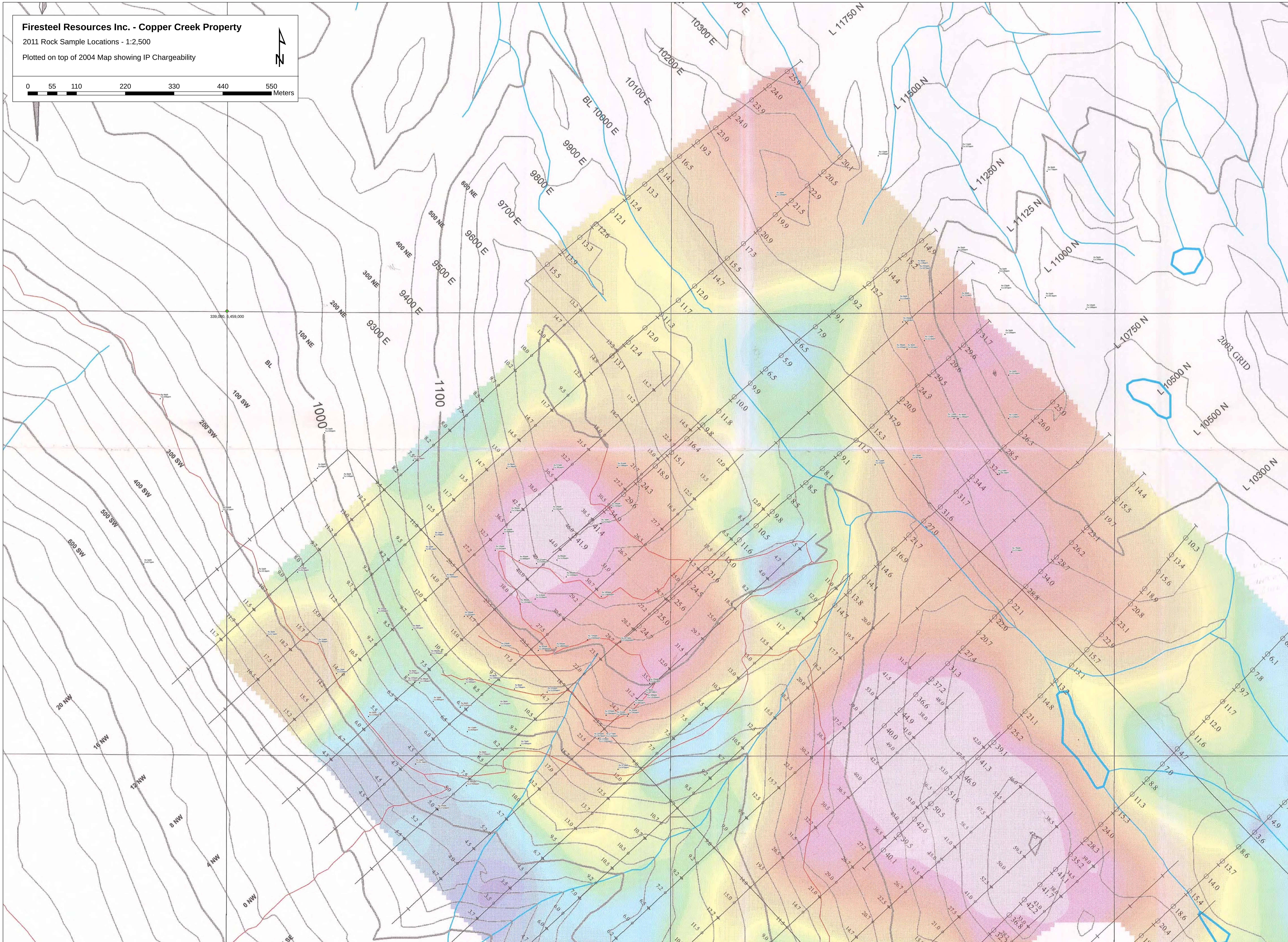

Figure 3. 2011 Sample Locations Overlying 2004 IP Chargeability Map (Geophysics).

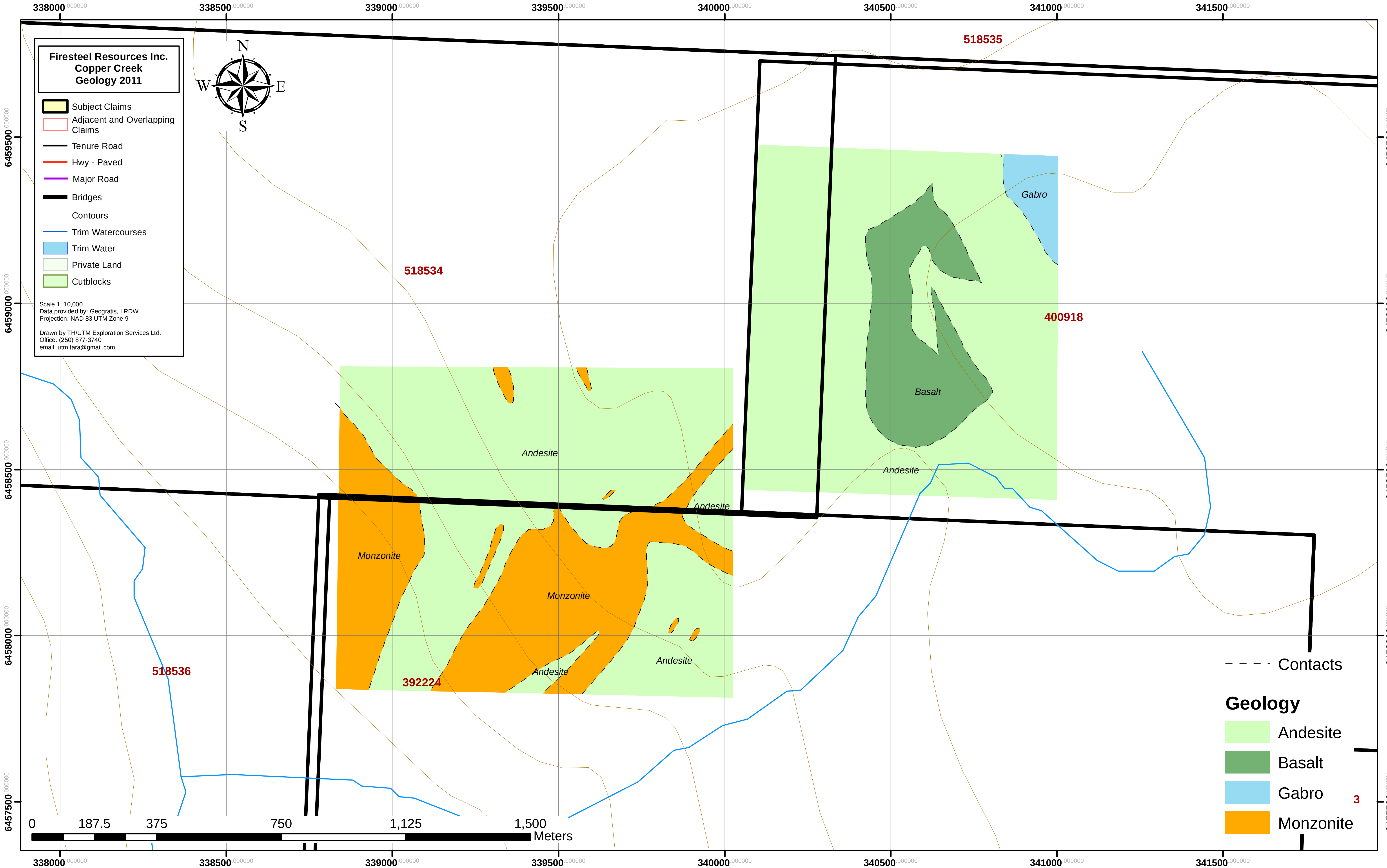

Figure 4. Results of 2011 Geological Mapping Program.

Sampling

Sampling Methodology and Approach

Sample locations were chosen by two criteria: apparent mineralization, and distance from other samples in the area. This approach was intended to be semi-systematic, and yield a distribution of samples that well-covered the two areas of interest. Using this approach, interesting samples were never passed over, but in some cases visually poor samples were taken in order to fill gaps in the sample distribution. Effort was made to take the best samples in any given area. Sometimes there simply weren't good samples to be taken.

This approach yielded the sample distribution shown in Figure 5. When possible, samples were taken in proximity to roads to increase the rate of sample collection. This was most possible in the western area of interest.

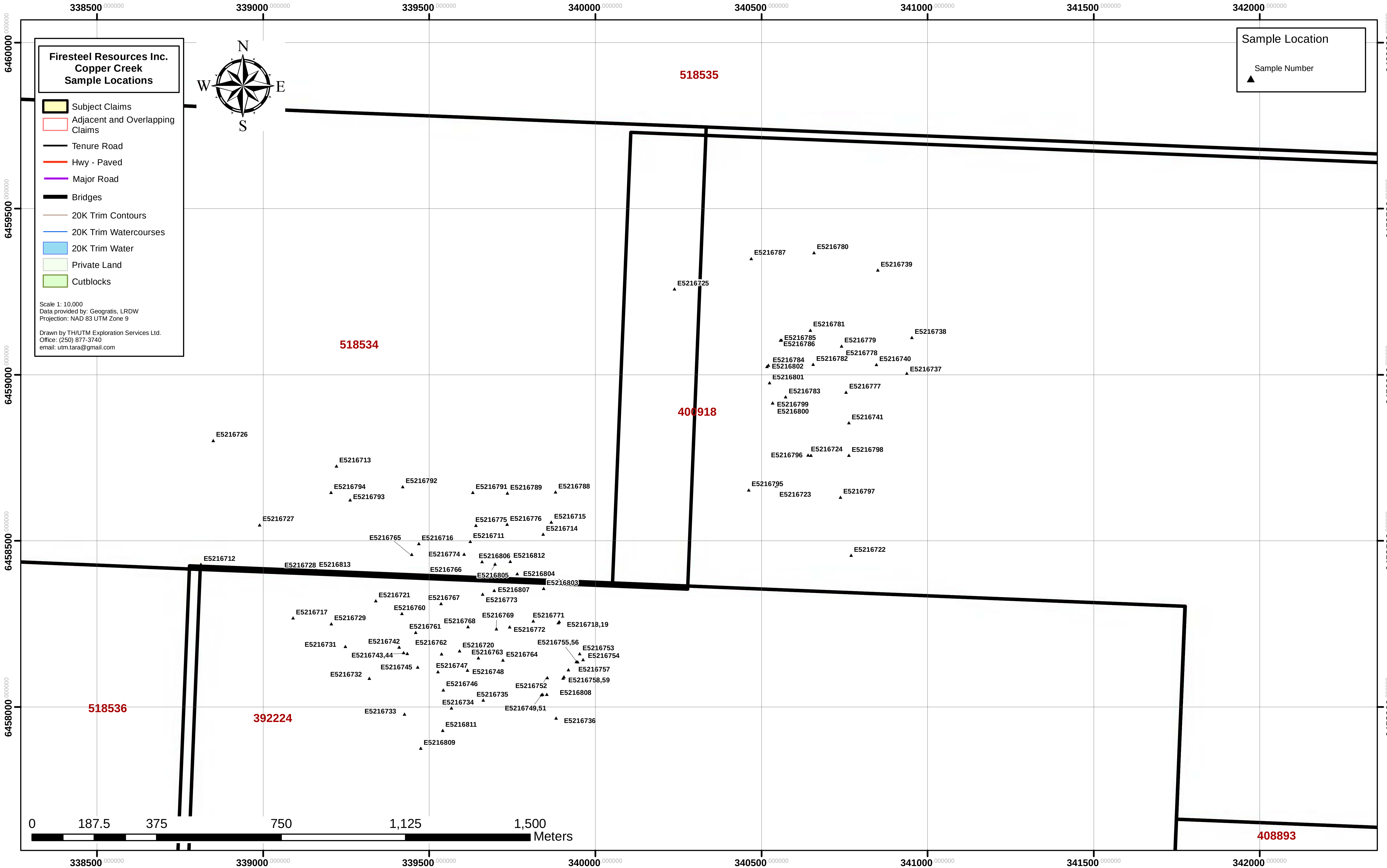

Figure 5. Fall 2011 Sample Site Locations.

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 laboratories in Calgary, AB for analyses. Each sample was assayed by ICP for a general suite of elements, followed by fire assay for gold. See Appendix I for full assay results and Appendix II for AGAT's methodology.

Data Verification

Both blank samples and standards were included in the sample stream for the purposes of assay verification. The blank samples should return zero values from the lab for all tested elements. Two standards were used for this project: one with high elemental values, the other with low values.

Results

Several samples were very high in copper, with the best sample returning 17.2% copper (Figure 6). The best sample values came from the western area of interest, where 10 samples returned >1% copper. The highest copper value encountered in the eastern area of interest was 0.4%. The maximum gold identified was 0.7ppm, and was found in the western area of interest (Figure 7).

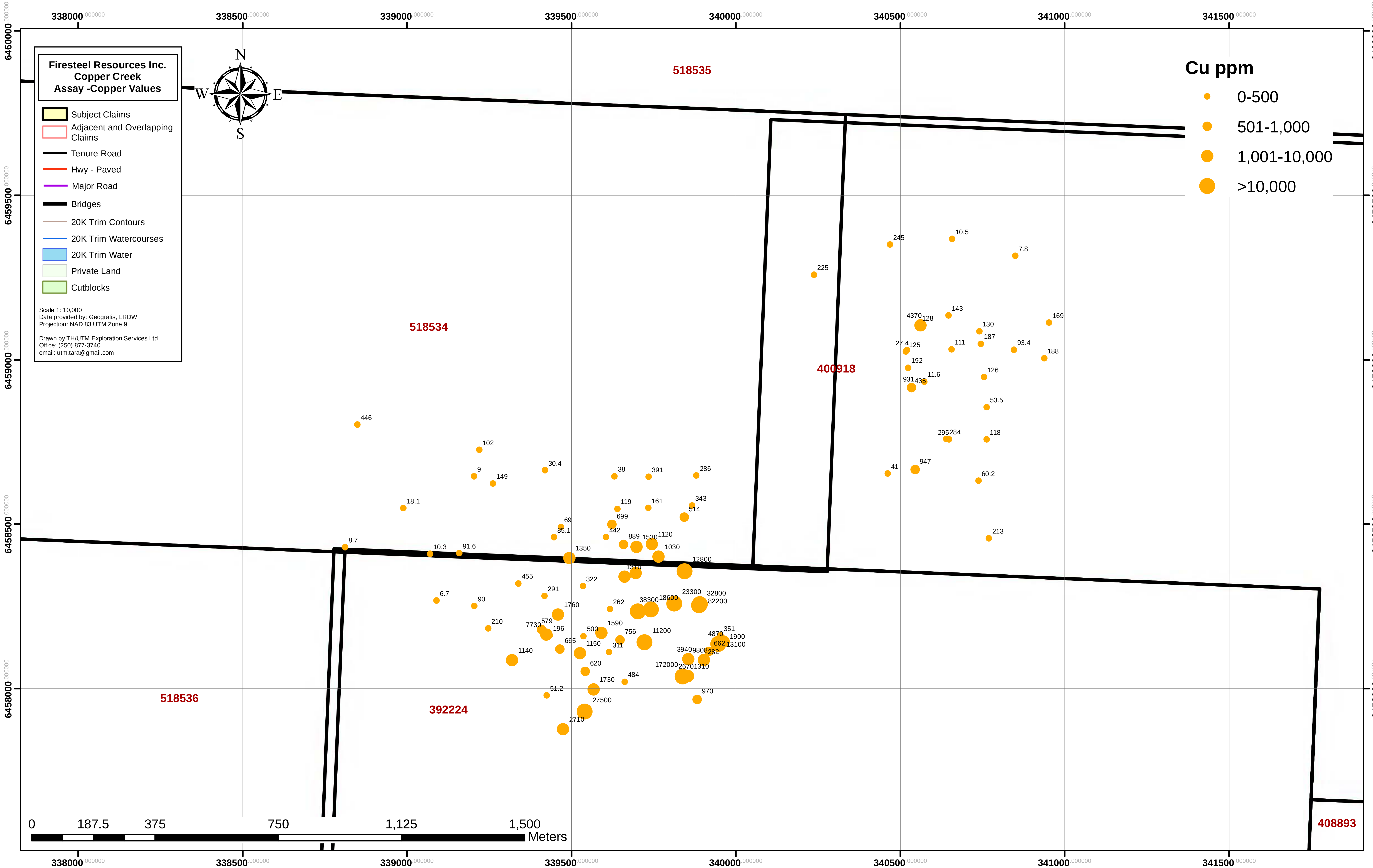

Figure 6. Copper Assay Results for Fall 2011 Sampling Program.

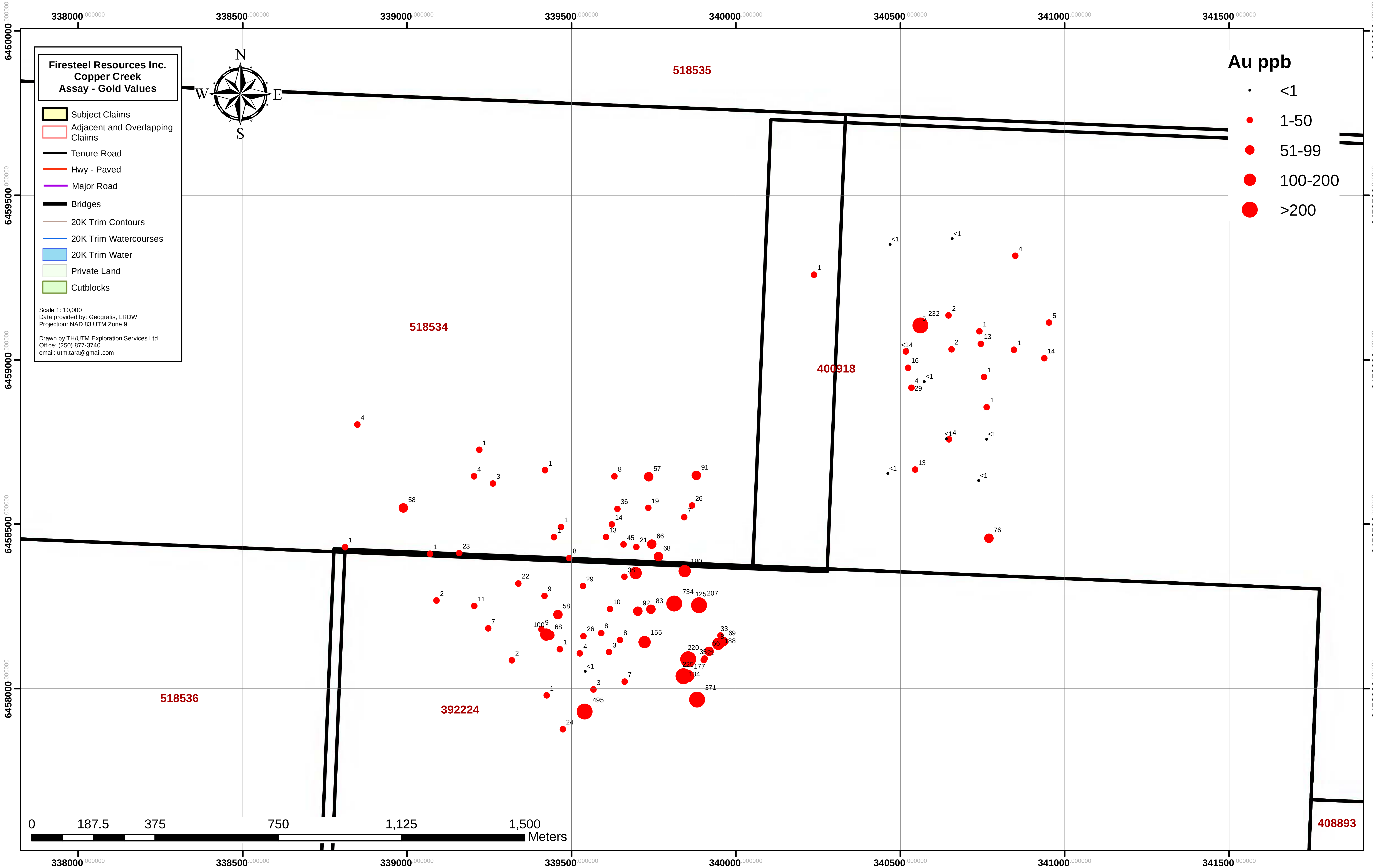

Figure 7. Gold Assay Results for Fall 2011 Sampling Program.

Interpretation and Conclusions

In total, 98 grab samples were collected across both areas of interest in the Dick Creek area. Some of these samples returned very high copper values, with one sample reaching 17.2%. All of the significant copper samples were collected in the western area of interest (to the west of Dick Creek). Most samples did not contain significant concentrations of gold.

It has been previously observed in drill holes, trenching, and rock samples, that there is a correlation between lithology and copper concentrations. The most recent exploration programs of the Dick Creek area (2004 to 2007) have yielded significant data correlation. The geochemical surveys showed the areas of elevated copper and gold to be to the immediate west of Dick Creek; the geophysical surveys exhibited chargeability and resistivity anomalies to the immediate west of Dick Creek and the geological mapping, trenching and sampling have intersected monzonite porphyry to the immediate west of Dick Creek. Dick Creek itself has shown that the lithological units favourable for copper mineralization to be the monzonite, and the monzonite contacts with the andesitetic units. So, from this, the 2011 exploration program focused on the two areas of interest that highlighted anomalous areas: west of Dick Creek and northeast of Dick.

Areas of good copper concentration roughly correspond to highs in both the magnetic and IP data in some areas. However, there does not seem to be a robust correlation between geophysical highs and copper concentration. Unfortunately, the geophysical highs that helped define the eastern area of interest did not produce the excellent copper values seen in the western area of interest. As such, the mechanisms that emplace high copper concentrations and create geophysical highs are likely related, but not coincident.

The property exhibits great potential both in mineable size and grade. After reviewing numerous assessment and Minfile reports on the property, it is apparent that the copper grades, at least near surface, are an average of 0.48% over extensive lengths, depending on the drillhole. Trenching has reproduced similar numbers, and some grab samples returned values as high as 17.2% copper.

The onsite topography of the Dick Creek and the Copper Creek areas suggest a large-sized potential deposit as the topography mimics the stratigraphy, so those areas of the Dick Creek and Copper Creek that are under moss or devoid of outcrop and have never been drilled show great potential in continued mineralization on proximity alone.

The extensive roadside locations of outcrop that were splashed with azurite, malachite, pyrite, pyrrhotite and a variety of other (as yet unknown) sulphides demonstrate the promising potential of an area that extends beyond one km in any direction, with deep subsurface drilling yet to establish the true extent to depth.

Recommendations (Ledwon and Rensby, 2011)

It is recommended that this property be methodically drilled with the program designed toward that of a resource estimate, and this drilling should be coupled with due diligence soil sampling, mapping, prospecting and continued trenching in areas of no outcrop. The area recommended for a program is the Dick Creek to Copper Creek areas only with drilling starting in the Dick Creek zone and systematically moving toward the Copper Creek zone. Pyrrhotite Creek should see an extensive mapping and prospecting program in conjunction with the drill program.

A two-drill program at 50m-centre spacing across the Dick Creek and Copper Creek areas would provide an indicated resource as opposed to an inferred resource. Once all equipment and necessary provisions are mobbed into site, the project would be an expected three to four million dollars including the final product: a NI 43-101 resource estimate and technical report.

Statement of Costs

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Stan Hammon/Project Geo	Sept 17-26	14	$700.00	$9,800.00	
Tucker Innes/Prospector FA	Sept 17-26	14	$622.00	$8,708.00	
				$18,508.00	$18,508.00
Office Studies	List Personnel (note - Office only, do not include field days				
Pre field Prep	Stan Hammon (14-15)	1.5	$700.00	$1,050.00	
GIS	Tara Holmes (Sept 13 (2), Dec 15 (5)	0.7	$600.00	$420.00	
Expediting	Ingrid Granlin	1.0	$550.00	$550.00	
Logistics	Brian Fraser (Sept 13)	1.0	$550.00	$550.00	
Report preparation	Anastasia Ledwon (Dec 20-22)	3.0	$70.00	$210.00	
Report preparation	Stan Hammon (Dec 1-20)	3.4	$550.00	$1,842.50	
Other (specify)					
				$4,622.50	$4,622.50
Ground Exploration Surveys	Area in Hectares/List Personnel				
Geological mapping					
Regional		*note: expenditures here*			
Reconnaissance		*should be captured in Personnel*			
Prospect		*field expenditures above*			
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	*note: This is for assays or*		$0.00	$0.00	
Rock	*laboratory costs*		$0.00	$3,233.20	
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	
				$3,233.20	$3,233.20
Transportation		No.	Rate	Subtotal	
Airfare			$0.00	$0.00	
Taxi			$0.00	$0.00	
truck rental		14.00	$90.00	$1,260.00	
kilometers		705.00	$0.75	$528.75	
ATV			$0.00	$0.00	
fuel			$0.00	$0.00	
Helicopter (hours)			$0.00	$5,177.67	
Fuel (litres/hour)			$0.00	$0.00	
Other					
				$6,966.42	$6,966.42
Accommodation & Food	Rates per day				
Hotel	Actual Cost			$ 106.00	
Hotel	Actual Cost			$ 106.00	
Camp	Room and Board Day rate	28.00	$125.00	$3,500.00	
Meal	Travel to and from site (actual cost)			$ 5.59	
Meal	Travel to and from site (actual cost)			$ 5.55	
Meal	Travel to and from site (actual cost)			$ 24.95	
Meal	Travel to and from site (actual cost)			$ 5.59	
Meal	Travel to and from site (actual cost)			$ 7.89	
Meal	Travel to and from site (actual cost)			$ 5.59	
Meal	Travel to and from site (actual cost)			$ 16.89	
Meal	Travel to and from site (actual cost)			$ 29.00	
Meal	Travel to and from site (actual cost)			$7.39	

Meal	Travel to and from site (actual cost)			$10.50	
Meal	Travel to and from site (actual cost)			$10.50	
Meal	Travel to and from site (actual cost)			$10.50	
Meal	Travel to and from site (actual cost)			$7.99	
Meal	Travel to and from site (actual cost)			$16.80	
Meal	Travel to and from site (actual cost)			$20.75	
Meal	Travel to and from site (actual cost)			$31.87	
Meal	Travel to and from site (actual cost)			$22.32	
Camp Supplies				$6.49	
Samp Fuel	Propane			$151.95	
Hotel	Guide Outfitters Lodge	3.00	$200.00	$600.00	
				$4,710.11	$4,710.11
Miscellaneous					
Standards				101.62	
Expenses Markup			$0.00	$2,767.58	
Telephone	Per Month	0.50	$360.00	$180.00	
Sat Phone Minutes	Per Minutes	100.00	$2.00	$200.00	
				$3,249.20	$3,249.20
Equipment Rentals					
Camp Computer		14.00	$25.00	$350.00	
Prospecting Kit		14.00	$25.00	$350.00	
Radios	2 radios for two weeks (2 x 0.5)	1.00	$56.00	$56.00	
			$0.00	$0.00	
Field Gear (Specify)			$0.00	$0.00	
Other (Specify)					
				$756.00	$756.00
Freight, rock samples					
			$0.00		
				$0.00	$0.00
TOTAL Expenditures					$42,045.43

References

Gutrath, G. (1969). Report of Geochemical and Geological Survey GO Claims #1 to #50, Inclusive GO Claims #57 to #84, Inclusive; for Skyline Gold; Assessment Report 0206, BC Ministry of Energy, Mines and Petroleum Resources.

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Ledwon, Anastasia and Rensby, Justin (2011). May 2011 Geological Assessment Report for the Copper Creek Claims; Assessment Report 32306, BC Ministry of Energy, Mines and Petroleum Resources.

Mauler, Alexandra and Thompson, A.J.B. (2005). Petrascience Consultants Inc., Petrographic Report, Copper Creek, BC for Firesteel Resources Inc., Vancouver, BC in Lane (2005).

McEwen, Brent (2006). Geochemical and Prospecting Report on Copper Creek Project; unpublished.

Panteleyev, A. (1981). Geology of British Columbia 1977-1981 NW BC, Star Copper Prospect; pp 178-179; BC Ministry of Energy, Mines and Petroleum Resources.

Schroeter, T.G. (1977). District Geology Reports on Mineral Property Examinations West Central and Northwest BC in Fieldwork 1977, BC Ministry of Energy, Mines and Petroleum.

Sevensma, P.H. (1973). Appraisal of the GO Group, Skyline Explorations Ltd.

Sunderland Brown, A. and Carter, N.C. (1975). Exploration and Mining in BC 2004, Review of Exploration and Prospecting, BC Ministry of Energy, Mines and Petroleum Resources.

Travis, Adam (2004). Geochemical and Geophysical Report Undertaken on the Copper Creek Property; Assessment Report 27436, BC Ministry of Energy, Mines and Petroleum Resources.

Young, R.G. (2008). Drilling Report/Topographic Survey for Assessment Purposes; Assessment Report 30047, 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.

Appendix I: Assay Results

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
http://www.agatlabs.com

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

ATTENTION TO: RICHARD BECK

PROJECT NO: FSCC001

AGAT WORK ORDER: 11D540533

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, ICP Supervisor

DATE REPORTED: Nov 09, 2011

PAGES (INCLUDING COVER): 30

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.

AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

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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 09, 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	0.01	0.1	0.5	0.05
E5216710	0.43	1.14	4.1	<1	<5	98	0.27	0.05	0.75	0.26	11.4	10.3	26.7	0.30
E5216711	0.17	3.76	7.3	14	<5	27	0.30	0.12	2.55	0.16	11.8	13.5	57.4	0.96
E5216712	0.04	1.18	6.1	1	7	59	0.09	0.02	1.37	0.03	2.54	9.7	94.6	0.51
E5216713	0.14	2.77	17.0	1	<5	84	0.14	0.10	2.30	0.07	2.90	27.0	85.1	0.90
E5216714	0.14	2.38	4.5	7	<5	101	0.25	0.07	1.19	0.36	15.4	15.6	127	0.25
E5216715	0.71	1.00	11.2	26	<5	114	0.13	0.10	0.10	0.27	10.2	5.0	97.9	0.22
E5216716	0.08	5.83	8.8	1	11	92	0.21	0.02	4.48	0.03	2.43	15.1	103	3.38
E5216717	0.07	1.95	5.6	2	5	48	0.17	<0.01	1.78	0.03	9.54	4.8	55.4	0.53
E5216718	0.84	2.29	6.2	125	6	172	0.84	0.36	1.21	0.56	17.2	10.9	44.6	1.43
E5216719	0.54	3.27	25.1	207	<5	52	0.32	0.17	1.72	0.28	16.0	72.9	64.5	0.74
E5216720	0.21	2.25	3.0	8	<5	33	0.14	0.06	0.50	0.04	5.59	7.5	85.7	1.15
E5216721	0.16	2.31	5.2	22	6	70	0.17	0.14	1.08	0.22	2.92	7.3	108	0.95
E5216722	0.14	2.39	2.0	76	<5	72	0.15	0.11	1.61	0.10	12.9	14.8	31.3	0.67
E5216723	0.32	2.97	11.0	13	<5	4	0.25	0.21	3.20	0.10	2.06	21.1	80.3	<0.05
E5216724	0.07	1.11	13.7	4	6	23	0.31	0.04	1.03	0.07	22.4	20.1	75.1	0.56
E5216725	0.15	4.10	11.5	1	20	98	0.38	0.07	2.98	0.06	7.25	49.1	33.2	1.11
E5216726	0.08	2.90	4.8	4	10	76	0.31	0.09	2.37	0.04	8.64	13.1	28.4	1.03
E5216727	0.04	2.33	6.8	58	7	16	0.24	0.04	4.65	0.07	3.15	11.0	93.6	0.15
E5216728	0.02	2.02	4.9	1	6	86	0.29	<0.01	1.57	0.04	8.83	5.4	46.2	1.27
E5216729	0.13	1.70	3.8	11	9	25	0.16	0.10	1.68	0.12	2.84	28.6	76.5	0.40
E5216730	162	0.24	1210	535	<5	13	0.09	57.8	1.41	516	4.11	36.1	19.7	0.29
E5216731	0.68	1.50	15.3	7	7	127	0.30	0.21	1.13	2.43	7.46	2.5	33.6	1.01
E5216732	0.36	1.31	11.6	2	16	102	0.54	0.03	1.54	0.39	7.78	2.4	20.4	0.75
E5216733	0.10	1.54	9.0	1	19	66	0.44	0.01	1.61	0.14	11.8	6.5	58.5	0.34
E5216734	0.13	1.83	7.2	3	15	67	0.35	0.03	1.54	0.23	8.15	13.3	37.2	0.94
E5216735	0.13	1.68	13.5	7	10	121	0.45	0.04	1.19	0.17	10.5	9.8	31.3	1.02
E5216736	1.55	2.10	4.6	371	<5	129	0.29	0.09	1.18	0.11	10.4	4.8	37.9	0.51
E5216737	0.10	1.95	7.1	14	<5	88	0.20	0.01	1.52	0.08	9.94	21.1	44.3	0.39
E5216738	0.08	1.37	17.5	5	<5	171	0.13	0.02	0.83	0.03	12.6	17.8	67.4	0.30
E5216739	0.13	2.02	5.1	4	<5	12	0.25	0.08	4.71	0.03	9.50	10.3	84.1	0.22
E5216740	0.04	2.29	2.2	1	8	47	0.21	0.01	2.10	0.05	12.4	13.8	26.6	0.49
E5216741	0.03	2.13	7.2	1	9	47	0.22	0.01	2.09	0.04	18.3	6.1	48.1	0.61

Certified By:

Results relate only to the items tested

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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 09, 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	0.01	0.1	0.5	0.05
E5216742	0.14	1.50	14.6	9	9	68	0.26	0.06	1.17	0.21	9.45	9.3	56.6	1.07
E5216743	0.80	1.32	5.6	100	11	61	0.32	0.02	1.23	0.14	10.2	7.7	37.3	1.20
E5216744	0.10	1.35	3.8	68	7	21	0.36	0.02	1.16	0.08	8.83	6.4	44.0	0.79
E5216745	0.07	1.17	5.4	1	13	40	0.45	<0.01	1.35	0.07	7.22	6.1	33.9	0.14
E5216746	0.10	1.84	13.6	<1	9	43	0.54	<0.01	3.02	0.06	8.94	12.7	35.8	0.15
E5216747	0.14	1.88	2.5	4	7	11	0.61	0.01	3.70	0.09	8.02	7.6	49.9	0.09
E5216748	0.07	1.73	3.8	3	10	25	0.35	0.02	1.36	0.26	11.3	10.9	52.0	1.59
E5216749	1.67	4.43	52.8	134	<5	7	0.67	0.31	2.90	3.09	12.4	104	106	0.84
E5216750	64.5	0.86	500	318	<5	5	0.16	23.1	1.04	210	14.9	19.8	28.3	0.26
E5216751	1.27	1.95	7.6	225	<5	20	0.39	0.19	1.03	1.19	13.4	9.0	35.6	0.78
E5216752	0.83	3.61	20.4	220	6	53	0.75	0.12	1.99	0.34	14.1	31.0	62.6	0.48
E5216753	0.37	1.26	8.7	33	<5	40	0.21	0.67	0.41	0.07	7.65	7.1	14.2	0.48
E5216754	0.69	3.58	171	69	<5	51	0.48	0.35	9.53	0.19	10.7	13.9	8.1	0.61
E5216755	0.61	4.79	625	188	<5	33	1.10	0.08	8.78	0.97	36.3	188	9.6	0.67
E5216756	0.14	1.03	163	8	<5	6	0.27	0.02	25.7	0.58	9.57	36.4	0.9	0.10
E5216757	0.27	2.66	10.2	56	<5	76	0.31	0.08	1.11	0.14	7.50	3.5	29.2	0.73
E5216758	0.33	0.35	13.0	35	<5	24	<0.05	0.71	0.93	0.07	4.42	2.1	30.4	0.28
E5216759	0.13	2.30	42.9	21	<5	33	0.19	0.02	19.4	1.64	10.3	141	6.6	0.23
E5216760	0.11	4.95	5.1	9	<5	89	0.28	0.08	1.65	0.05	4.67	4.8	61.1	0.56
E5216761	0.86	1.03	10.8	58	<5	90	0.12	0.29	0.50	1.71	22.2	45.9	30.5	0.27
E5216762	0.18	1.98	10.2	26	<5	62	0.07	0.04	0.52	0.19	6.64	5.7	61.3	1.56
E5216763	0.18	2.80	6.3	8	<5	30	0.11	0.04	1.15	0.69	9.36	7.6	35.7	2.41
E5216764	2.45	2.18	8.1	155	7	56	0.34	0.05	1.07	0.91	13.0	35.5	59.5	0.72
E5216765	0.07	1.19	2.8	1	<5	22	0.07	0.03	1.49	0.08	2.24	10.6	77.9	0.23
E5216766	0.11	2.39	14.3	8	<5	47	0.14	0.33	1.40	0.65	5.92	25.9	42.4	0.66
E5216767	0.02	3.38	3.2	29	<5	34	0.14	0.12	1.45	0.23	9.37	5.8	30.3	1.18
E5216768	0.11	2.78	3.7	10	<5	26	0.07	0.04	1.27	0.04	6.47	3.1	51.2	0.42
E5216769	0.40	2.19	31.3	92	<5	19	0.82	0.04	1.26	0.35	29.1	75.5	25.7	0.40
E5216770	0.43	1.18	3.9	1	<5	98	0.13	0.05	0.81	0.26	11.9	9.2	24.0	0.33
E5216771	1.32	1.57	3.7	734	<5	57	0.25	0.10	0.80	0.45	15.2	31.4	161	0.65
E5216772	0.31	2.68	<0.1	83	6	85	0.30	0.02	2.51	0.21	23.4	49.8	74.3	0.79
E5216773	0.12	3.21	11.2	38	<5	42	0.10	0.06	0.97	0.06	11.1	1.5	27.8	0.42

Certified By:

Results relate only to the items tested

Certificate of Analysis

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

AGAT Laboratories
5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)

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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	0.01	0.1	0.5	0.05
E5216774	0.04	1.82	5.5	13	<5	17	0.18	0.04	5.33	0.34	7.40	8.5	77.1	0.11
E5216775	0.01	6.12	32.0	36	<5	963	0.14	0.03	2.14	0.02	14.3	16.7	67.1	2.96
E5216776	0.06	2.59	4.9	19	<5	46	0.12	0.08	0.56	0.02	6.89	4.1	39.8	0.59
E5216777	0.04	1.85	12.1	1	<5	26	0.21	0.01	4.10	0.02	7.15	11.0	40.5	1.72
E5216778	0.04	1.70	3.6	13	6	44	0.10	0.01	1.70	0.05	14.2	13.7	26.7	0.61
E5216779	0.05	2.03	6.8	1	<5	24	0.14	0.03	2.18	0.05	13.0	21.2	45.3	0.32
E5216780	0.02	2.35	2.3	<1	<5	96	<0.05	<0.01	1.06	0.04	4.22	30.3	114	2.95
E5216781	0.03	1.68	7.2	2	<5	32	0.14	<0.01	1.61	0.03	13.6	18.0	63.1	0.23
E5216782	0.04	1.71	8.9	2	5	31	0.17	0.02	1.83	0.03	13.9	22.9	41.1	1.96
E5216783	0.04	1.85	10.0	<1	<5	38	0.10	<0.01	2.01	0.13	7.26	17.3	230	2.44
E5216784	0.03	1.75	4.3	<1	<5	40	0.08	<0.01	2.12	0.03	5.77	16.2	71.7	1.86
E5216785	0.03	2.01	8.1	5	7	29	0.28	<0.01	3.06	0.04	9.54	13.5	19.5	0.39
E5216786	2.13	1.56	20.7	232	<5	7	0.06	0.10	1.00	0.15	7.78	89.6	52.0	0.06
E5216787	0.33	2.52	93.1	<1	17	20	0.15	0.08	2.58	1.00	6.27	31.2	43.5	0.31
E5216788	0.31	1.51	21.8	91	<5	63	0.09	0.30	0.73	0.18	9.13	2.8	10.6	1.40
E5216789	0.12	2.00	33.8	57	<5	70	0.15	1.07	1.32	0.17	12.9	13.0	56.1	0.37
E5216790	159	0.28	1200	559	<5	<1	0.10	57.7	1.53	517	3.62	34.9	19.7	0.23
E5216791	0.67	3.41	7.1	8	11	42	0.15	0.20	3.36	2.02	4.81	7.3	33.3	0.53
E5216792	0.02	3.09	4.4	1	<5	78	0.13	0.03	1.51	0.07	6.25	23.2	127	0.19
E5216793	0.07	1.87	3.3	3	<5	68	0.10	0.03	2.07	0.09	3.23	11.7	37.3	0.42
E5216794	0.01	1.63	2.6	4	<5	48	0.09	0.02	2.07	0.06	2.17	8.6	42.5	0.26
E5216795	0.01	2.05	2.3	<1	7	41	0.15	<0.01	1.51	0.19	8.36	16.7	10.8	0.49
E5216796	0.08	1.89	12.4	<1	11	19	0.24	0.05	2.49	0.05	13.2	27.7	41.1	0.68
E5216797	0.01	4.34	1.9	<1	<5	196	0.11	0.01	2.54	0.05	9.20	12.8	26.2	0.98
E5216798	0.01	4.98	1.4	<1	<5	400	0.16	0.04	2.36	0.01	8.03	18.8	34.5	1.83
E5216799	0.16	1.08	98.8	4	<5	55	0.13	0.08	1.27	0.40	11.1	61.9	160	0.22
E5216800	0.06	1.21	723	29	<5	74	0.22	0.11	0.87	0.11	19.0	43.4	181	0.17
E5216801	0.08	1.24	13.1	16	<5	34	0.13	0.03	1.32	0.09	8.08	11.7	80.0	0.32
E5216802	0.03	2.31	8.7	4	6	42	0.11	<0.01	2.05	0.04	11.7	16.9	33.1	0.72
E5216803	1.58	2.51	67.3	180	5	132	0.45	0.31	3.34	3.23	26.4	52.5	32.6	0.50
E5216804	0.42	3.14	18.9	68	<5	64	0.15	0.05	2.06	0.12	12.1	11.9	47.7	0.48
E5216805	0.27	2.92	7.5	21	<5	25	0.14	0.07	1.87	0.07	10.0	10.3	58.6	1.01

Certified By:

Results relate only to the items tested

Certificate of Analysis

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

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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 09, 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	0.01	0.1	0.5	0.05
E5216806	0.15	2.62	5.9	45	<5	42	0.15	0.21	1.39	0.09	12.8	8.4	32.2	1.06
E5216807	0.26	2.81	6.2	114	<5	37	0.19	0.03	0.74	0.11	9.09	4.8	34.0	0.21
E5216808	0.74	2.23	2.7	177	<5	76	0.14	0.08	1.53	0.12	11.5	15.3	33.6	0.37
E5216809	0.93	2.83	17.1	24	<5	77	0.08	0.29	1.18	1.69	3.24	97.7	89.7	0.71
E5216810	0.36	1.10	3.8	<1	<5	91	0.19	0.05	0.75	0.22	11.8	10.0	24.1	0.34
E5216811	4.69	2.61	10.3	495	7	141	0.21	0.47	2.48	0.19	3.27	26.2	47.0	0.65
E5216812	0.49	1.51	7.7	66	<5	14	0.17	0.27	1.19	0.23	6.97	9.8	60.1	0.19
E5216813	0.05	1.30	9.7	23	5	77	0.16	0.02	2.18	0.05	1.60	10.5	35.1	0.43

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AGAT Laboratories

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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 09, 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:	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
E5216710	27.0	2.22	4.48	0.13	0.27	0.05	0.018	0.08	5.3	9.1	0.57	395	3.60	0.06
E5216711	699	4.84	9.42	0.15	0.19	0.01	0.023	0.07	5.0	5.4	0.40	232	1.82	0.42
E5216712	8.7	5.08	3.95	0.11	0.23	0.02	0.013	0.13	1.1	7.8	0.53	291	0.49	0.13
E5216713	102	3.52	7.35	0.14	0.24	0.01	0.015	0.13	1.2	13.1	1.17	729	0.98	0.36
E5216714	514	4.47	7.95	0.15	0.71	<0.01	0.010	0.27	8.2	7.3	0.82	176	63.5	0.30
E5216715	343	6.27	9.15	0.11	0.43	0.37	0.012	0.25	5.7	6.0	0.42	141	82.6	0.10
E5216716	69.0	5.61	6.43	0.12	0.15	<0.01	0.017	0.21	1.0	17.3	3.24	1140	0.88	0.80
E5216717	6.7	3.01	5.15	0.11	0.26	<0.01	0.013	0.07	4.2	3.9	0.39	338	1.09	0.29
E5216718	>10000	2.65	7.17	0.48	0.68	0.04	0.432	0.16	7.0	5.5	0.64	346	1.15	0.12
E5216719	>10000	5.00	10.4	<0.05	0.22	0.03	0.106	0.15	6.0	5.9	1.14	1090	1.92	0.08
E5216720	1590	4.69	9.75	0.11	0.16	0.01	<0.005	0.08	2.5	5.5	0.89	522	4.96	0.18
E5216721	455	3.41	8.27	0.13	0.16	0.01	0.034	0.08	1.3	10.6	0.71	362	0.35	0.17
E5216722	213	5.54	10.5	0.17	0.18	0.01	0.023	0.11	5.4	9.1	1.33	639	0.80	0.25
E5216723	947	8.27	4.18	0.22	0.28	<0.01	0.036	<0.01	0.6	10.6	1.88	2250	0.55	<0.01
E5216724	295	4.54	5.09	0.16	0.72	<0.01	0.020	0.05	12.9	8.1	0.21	278	21.4	0.18
E5216725	225	4.21	9.92	0.15	0.47	<0.01	0.016	0.13	2.6	29.3	0.97	948	0.73	0.46
E5216726	446	4.06	7.90	0.14	0.25	0.03	0.021	0.21	3.9	10.9	1.05	462	0.78	0.38
E5216727	18.1	3.16	9.09	0.28	0.24	0.02	0.053	0.01	1.7	5.1	0.69	1240	0.69	<0.01
E5216728	10.3	3.63	6.97	0.12	0.28	0.17	0.017	0.11	3.7	13.2	0.80	586	0.43	0.24
E5216729	90.0	3.96	6.23	0.13	0.24	0.02	0.039	0.06	1.2	14.6	0.78	498	0.52	0.12
E5216730	>10000	14.4	7.57	0.21	0.09	18.2	6.62	0.05	2.4	2.3	0.66	471	39.5	<0.01
E5216731	210	2.84	5.65	0.11	0.23	0.29	0.039	0.08	2.8	13.3	0.28	209	1.24	0.14
E5216732	1140	0.53	5.04	0.11	0.14	0.28	0.061	0.11	3.4	10.7	0.26	228	0.57	0.10
E5216733	51.2	3.11	7.76	0.12	0.24	0.15	0.013	0.17	5.8	12.2	0.40	748	0.82	0.12
E5216734	1730	2.79	9.60	0.11	0.20	0.17	0.022	0.13	3.3	19.0	1.02	746	0.43	0.11
E5216735	484	2.19	7.22	0.13	0.21	0.32	0.009	0.10	4.4	11.2	0.43	282	2.84	0.12
E5216736	970	3.04	6.23	0.13	0.20	0.06	0.134	0.06	4.6	5.9	0.39	166	3.85	0.14
E5216737	188	5.01	8.58	0.16	0.09	0.02	0.034	0.28	4.7	12.9	1.15	532	0.49	0.19
E5216738	169	4.81	5.26	0.12	0.07	0.01	0.010	0.55	5.9	6.6	0.63	210	3.38	0.20
E5216739	7.8	2.36	7.78	0.21	0.15	0.02	0.046	0.02	3.8	4.7	0.64	999	0.86	<0.01
E5216740	93.4	2.82	9.27	0.15	0.20	0.01	0.034	0.12	5.3	9.7	0.82	596	1.14	0.34
E5216741	53.5	1.79	6.07	0.13	0.53	0.01	0.018	0.12	8.6	5.6	0.36	252	1.12	0.33

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

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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 09, 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:	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
E5216742	579	3.26	6.19	0.13	0.13	0.03	0.015	0.06	4.7	8.5	0.31	332	3.68	0.13
E5216743	7730	2.78	5.30	0.11	0.15	0.51	0.122	0.09	4.8	9.9	0.31	313	6.33	0.12
E5216744	196	2.02	7.36	0.14	0.25	0.13	0.038	0.04	3.6	16.8	0.68	508	0.58	0.14
E5216745	665	3.93	7.09	0.12	0.24	0.03	0.011	0.12	3.1	7.2	0.40	439	1.20	0.12
E5216746	620	3.54	11.1	0.13	0.22	0.51	0.014	0.08	3.6	25.4	1.19	1460	0.55	0.07
E5216747	1150	3.44	10.8	0.14	0.28	0.05	0.025	0.05	3.4	15.1	0.93	811	0.90	0.11
E5216748	311	2.90	10.3	0.13	0.28	0.07	0.023	0.08	3.9	28.2	0.93	959	0.77	0.08
E5216749	>10000	2.17	21.5	0.22	0.11	0.27	0.074	0.11	4.9	5.5	0.76	772	5.78	0.02
E5216750	5210	10.1	5.79	0.06	0.18	7.22	2.70	0.08	6.7	5.0	0.75	470	22.1	0.05
E5216751	2670	4.18	7.82	0.13	0.27	0.17	0.065	0.05	6.0	8.4	0.64	275	3.73	0.09
E5216752	3940	5.70	15.4	0.19	0.12	0.45	0.108	0.13	6.6	18.5	1.35	921	4.36	0.10
E5216753	351	5.14	10.8	0.14	0.27	0.12	0.060	0.07	3.4	7.1	0.58	526	3.11	0.08
E5216754	1900	9.67	10.0	0.09	0.09	0.52	0.040	0.10	5.9	5.5	0.50	1210	14.3	0.04
E5216755	>10000	4.68	9.95	<0.05	0.11	0.43	0.064	0.06	16.9	15.6	0.55	3690	6.42	0.06
E5216756	4870	1.10	1.52	<0.05	0.03	0.16	<0.005	0.01	4.6	3.7	0.07	1700	4.39	<0.01
E5216757	662	3.56	9.56	0.12	0.08	0.03	0.024	0.06	2.9	7.1	0.77	192	3.11	0.15
E5216758	282	11.0	2.75	0.14	0.04	0.09	0.069	1.29	1.9	1.7	0.05	48	15.6	0.54
E5216759	9808	2.03	6.80	<0.05	0.06	0.09	0.014	0.05	5.4	6.1	0.60	4090	3.05	0.02
E5216760	291	10.4	12.2	0.13	0.18	0.04	<0.005	0.19	2.1	17.4	1.86	157	1.60	0.50
E5216761	1760	16.0	7.28	0.23	0.19	0.13	0.033	0.09	13.7	1.5	0.22	639	139	0.12
E5216762	500	3.91	8.83	0.10	0.15	0.70	0.008	0.06	3.1	3.1	0.62	208	14.9	0.12
E5216763	756	4.57	9.92	0.13	0.16	0.23	<0.005	0.09	4.6	5.8	0.88	290	22.4	0.16
E5216764	>10000	3.92	8.96	0.16	0.31	0.28	0.051	0.14	5.8	16.1	1.24	1180	20.8	0.08
E5216765	85.1	1.82	3.79	0.10	0.13	0.12	0.050	0.07	1.1	2.0	0.69	460	1.34	0.08
E5216766	1350	5.86	9.87	0.13	0.20	0.03	0.068	0.07	2.5	3.3	0.70	441	0.83	0.08
E5216767	322	3.81	9.99	0.11	0.20	0.02	0.014	0.07	4.3	3.3	0.73	446	0.86	0.32
E5216768	262	3.26	9.16	0.11	0.20	<0.01	<0.005	0.06	2.5	2.1	0.64	139	1.01	0.26
E5216769	>10000	2.02	6.86	0.10	0.09	0.09	0.018	0.09	9.8	2.8	0.44	418	17.9	0.07
E5216770	25.8	2.24	4.55	0.10	0.28	0.03	0.019	0.08	5.6	4.8	0.58	363	3.59	0.07
E5216771	>10000	5.40	7.62	0.08	0.16	0.07	0.106	0.06	7.1	6.6	0.73	456	6.34	0.09
E5216772	>10000	3.84	7.14	0.05	0.13	0.04	0.012	0.17	9.5	6.9	1.02	854	6.47	0.15
E5216773	1310	5.34	13.4	0.12	0.07	0.04	0.018	0.18	4.2	4.8	1.49	196	3.02	0.07

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DATE SAMPLED: Oct 19, 2011 | DATE RECEIVED: Oct 19, 2011 | DATE REPORTED: Nov 09, 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:	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
E5216774	442	4.24	9.53	0.18	0.48	0.01	0.587	0.05	3.9	1.4	0.39	2570	1.12	0.07
E5216775	119	8.63	16.4	0.14	0.06	0.03	0.033	1.62	5.9	8.3	1.80	1070	0.74	0.40
E5216776	161	3.40	10.1	0.08	0.09	<0.01	0.036	0.08	3.4	9.0	1.21	170	0.96	0.18
E5216777	126	2.15	6.64	0.08	0.22	<0.01	0.015	0.06	2.4	7.4	1.10	657	0.20	0.22
E5216778	187	3.79	8.04	0.14	0.22	<0.01	0.026	0.14	6.6	5.1	0.92	451	0.81	0.19
E5216779	130	4.33	7.73	0.13	0.19	<0.01	0.030	0.11	6.3	3.9	1.14	1110	0.33	0.21
E5216780	10.5	5.97	10.3	0.13	0.11	<0.01	0.025	1.36	1.5	9.3	2.11	598	0.18	0.18
E5216781	143	5.47	6.54	0.12	0.29	<0.01	0.012	0.09	6.4	2.8	0.93	364	0.40	0.19
E5216782	111	2.86	6.40	0.11	0.38	<0.01	0.022	0.13	6.4	5.3	0.73	317	0.32	0.27
E5216783	11.6	3.92	7.18	0.14	0.26	<0.01	0.027	0.23	3.5	6.5	1.60	385	0.19	0.26
E5216784	27.4	6.65	7.91	0.15	0.31	<0.01	0.061	0.30	2.6	2.6	0.98	381	0.38	0.37
E5216785	128	3.22	8.11	0.11	0.26	<0.01	0.011	0.09	3.4	5.4	0.84	391	0.28	0.08
E5216786	4370	8.56	10.0	0.15	0.16	0.01	0.099	0.06	5.2	2.1	0.85	354	0.89	0.04
E5216787	245	4.88	10.5	0.17	0.32	0.05	0.057	0.08	2.7	13.9	1.23	1460	2.57	0.06
E5216788	286	6.39	9.59	0.13	0.16	0.01	0.066	0.19	3.9	2.3	0.35	142	1.43	0.12
E5216789	391	5.23	8.24	0.14	0.69	<0.01	0.037	0.07	6.1	4.1	0.37	159	23.8	0.21
E5216790	>10000	15.9	7.99	0.17	0.07	18.0	6.54	0.05	2.0	2.4	0.72	442	39.6	<0.01
E5216791	38.0	3.58	8.83	0.09	0.34	0.31	0.160	0.13	2.0	8.9	1.02	1020	0.48	0.25
E5216792	30.4	4.14	6.42	0.11	0.20	0.04	0.017	0.11	2.5	6.3	4.27	1160	0.27	0.08
E5216793	149	2.80	5.97	0.12	0.29	0.11	0.016	0.10	1.3	4.0	0.68	513	0.39	0.10
E5216794	9.0	3.96	5.98	0.12	0.29	0.05	0.028	0.09	0.9	6.6	0.78	660	0.30	0.08
E5216795	41.0	3.84	10.3	0.13	0.26	0.03	0.025	0.14	3.5	11.3	1.34	655	0.13	0.12
E5216796	284	2.67	7.73	0.10	0.81	0.02	0.016	0.07	4.4	6.9	0.43	244	5.81	0.14
E5216797	60.2	3.54	11.1	0.10	0.12	0.02	0.015	0.55	3.9	4.1	0.92	587	0.79	0.52
E5216798	118	5.42	14.6	0.13	0.12	0.02	0.021	1.39	3.5	2.8	1.27	546	1.49	0.56
E5216799	931	2.11	4.28	0.11	0.46	0.02	0.010	0.09	5.7	5.0	0.58	315	10.9	0.06
E5216800	435	3.35	6.37	0.11	0.58	0.01	0.005	0.11	11.3	9.0	0.72	159	13.3	0.13
E5216801	192	4.52	4.71	0.11	0.40	0.01	0.010	0.12	3.3	3.5	0.49	354	0.63	0.18
E5216802	125	4.88	9.35	0.09	0.18	0.01	0.012	0.13	4.9	6.0	0.93	376	0.65	0.23
E5216803	>10000	2.59	5.52	<0.05	0.07	0.33	0.059	0.10	8.6	4.1	0.38	940	4.63	0.07
E5216804	1030	4.71	8.52	0.11	0.15	0.01	0.035	0.12	5.5	2.1	0.55	253	6.78	0.40
E5216805	1530	6.36	9.49	0.12	0.31	0.02	0.058	0.05	4.1	2.8	0.38	196	5.74	0.39

Certified By:

Results relate only to the items tested

Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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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 09, 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:	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
E5216806	889	6.34	7.81	0.12	0.29	0.02	0.054	0.06	5.4	3.4	0.60	411	7.12	0.20
E5216807	1110	3.35	9.87	0.12	0.24	<0.01	0.024	0.08	3.8	3.9	1.09	319	2.75	0.09
E5216808	1310	5.10	7.88	0.11	0.27	<0.01	0.050	0.07	5.0	1.8	0.35	250	6.84	0.18
E5216809	2710	11.9	12.2	0.15	0.11	0.31	0.113	0.06	1.5	14.2	1.62	1230	15.7	0.04
E5216810	24.0	2.07	4.51	0.10	0.30	0.04	0.019	0.08	5.5	6.5	0.54	355	3.40	0.06
E5216811	>10000	6.35	8.40	0.18	0.15	0.46	0.471	0.08	1.4	5.0	0.39	517	2.46	0.06
E5216812	1120	6.77	10.1	0.15	0.55	0.02	0.094	0.06	4.0	1.1	0.30	174	3.42	0.06
E5216813	91.6	2.08	4.74	0.10	0.18	0.01	0.025	0.04	0.7	2.8	0.43	470	0.36	0.04

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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 09, 2011 | SAMPLE TYPE: Rock

Sample Description	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
E5216710		0.19	20.0	561	2.4	3.6	0.001	0.049	0.33	4.8	<0.2	0.4	32.1	<0.01	0.02
E5216711		0.08	15.9	945	1.6	2.8	0.011	1.91	0.10	7.4	3.5	0.7	92.4	<0.01	0.11
E5216712		0.12	10.6	822	1.0	4.1	<0.001	0.030	0.52	4.7	<0.2	0.2	44.0	<0.01	0.03
E5216713		<0.05	22.8	850	1.5	3.0	<0.001	0.400	0.25	6.4	0.2	0.2	112	<0.01	0.09
E5216714		0.16	83.1	899	1.1	9.2	0.160	2.20	0.06	13.0	26.5	0.6	58.7	<0.01	0.12
E5216715		0.10	22.3	660	74.3	7.1	0.090	1.13	0.11	11.0	21.5	0.7	35.3	<0.01	0.19
E5216716		0.06	33.9	938	1.4	3.3	<0.001	0.061	0.18	6.3	0.2	<0.2	273	<0.01	0.04
E5216717		0.17	2.4	849	1.1	1.6	<0.001	0.025	<0.05	3.2	<0.2	0.3	102	<0.01	0.01
E5216718		1.25	6.4	713	1.4	7.6	0.337	0.062	0.42	6.3	3.1	0.8	217	1.08	0.70
E5216719		0.40	18.9	1160	1.2	4.8	0.018	0.086	0.07	10.5	3.8	0.7	94.9	0.11	0.17
E5216720		0.06	2.7	739	1.6	4.7	0.007	1.32	0.06	8.5	6.6	0.6	80.5	<0.01	0.03
E5216721		0.09	15.2	377	3.6	3.7	<0.001	0.122	0.11	9.0	2.6	1.3	67.2	<0.01	0.12
E5216722		0.08	6.2	1390	0.8	4.9	<0.001	0.063	0.08	5.4	<0.2	0.3	95.8	<0.01	0.20
E5216723		0.07	4.3	952	2.0	0.3	<0.001	1.69	0.26	7.5	1.4	0.7	87.2	<0.01	1.55
E5216724		0.51	29.3	1450	1.1	2.1	0.019	2.13	0.09	7.1	3.4	0.6	30.1	<0.01	0.18
E5216725		0.14	19.4	1170	1.5	5.0	<0.001	0.887	0.13	8.9	0.4	0.5	111	<0.01	0.05
E5216726		0.15	6.2	2120	0.9	6.8	<0.001	0.359	0.08	6.7	0.5	0.4	173	<0.01	0.14
E5216727		0.09	11.6	712	4.7	0.5	<0.001	0.056	1.14	11.9	<0.2	0.3	293	<0.01	0.02
E5216728		0.11	2.9	895	0.9	3.6	<0.001	0.019	0.21	6.1	<0.2	0.3	116	<0.01	0.01
E5216729		0.08	19.8	1010	7.0	2.5	<0.001	0.278	0.18	8.3	0.3	0.3	71.2	<0.01	0.10
E5216730		0.65	44.0	419	>10000	2.1	0.041	15.2	219	1.2	191	104	32.1	0.15	0.79
E5216731		0.12	2.6	864	53.8	2.9	<0.001	0.301	1.20	3.0	1.5	0.8	69.6	<0.01	0.03
E5216732		0.10	2.3	734	9.6	4.1	<0.001	0.080	0.42	2.8	0.8	0.6	78.4	<0.01	0.03
E5216733		0.09	2.1	710	3.6	5.4	<0.001	0.019	0.16	2.7	<0.2	0.3	28.5	<0.01	<0.01
E5216734		0.10	3.6	898	3.6	5.6	<0.001	0.080	0.36	6.4	1.6	0.3	52.8	<0.01	0.02
E5216735		0.15	3.6	872	2.8	3.5	0.002	0.106	0.67	4.8	1.6	0.3	161	<0.01	0.06
E5216736		0.16	4.9	733	1.9	2.7	0.004	0.051	0.09	6.9	3.4	0.6	314	<0.01	0.16
E5216737		0.08	10.7	828	0.9	10.5	<0.001	0.067	0.08	9.4	0.3	0.2	25.5	<0.01	0.03
E5216738		0.28	14.9	1270	0.6	16.5	0.008	1.01	0.05	5.1	2.1	0.2	35.4	<0.01	0.10
E5216739		0.13	8.2	745	1.1	2.6	<0.001	0.355	0.38	9.5	0.4	0.5	227	<0.01	0.12
E5216740		0.09	4.2	1230	0.4	7.1	0.001	0.101	0.08	11.4	0.4	0.6	90.5	<0.01	0.04
E5216741		0.47	4.3	1390	0.7	3.3	<0.001	0.077	0.17	7.8	0.2	0.5	65.9	<0.01	0.02

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 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	0.01
E5216742	0.12	7.2	672	1.6	2.6	0.002	0.049	0.52	4.5	1.2	0.3	128	<0.01	0.02
E5216743	0.07	3.7	976	3.7	3.5	0.001	0.267	0.28	2.2	4.6	0.6	63.8	<0.01	0.05
E5216744	0.07	2.7	749	0.9	1.8	<0.001	0.018	0.21	5.8	<0.2	0.6	39.8	<0.01	<0.01
E5216745	0.07	2.0	841	0.9	3.2	<0.001	0.059	0.10	3.5	0.6	0.3	16.3	<0.01	0.01
E5216746	0.06	2.3	971	1.8	2.8	<0.001	0.042	0.40	7.1	0.4	0.3	32.4	<0.01	0.01
E5216747	0.08	1.9	802	3.7	1.3	<0.001	0.069	0.19	7.8	1.0	0.5	23.3	<0.01	<0.01
E5216748	0.09	3.4	914	4.0	4.2	<0.001	0.018	0.12	10.1	<0.2	0.8	30.9	<0.01	<0.01
E5216749	0.21	26.2	475	68.4	3.1	0.007	1.22	1.31	19.5	8.4	1.1	57.7	0.05	0.11
E5216750	0.58	35.0	440	7080	3.1	0.014	9.17	66.6	3.4	80.6	42.4	33.4	0.02	0.25
E5216751	0.16	8.7	676	25.1	2.7	0.004	0.192	0.66	9.4	4.1	0.9	58.3	<0.01	0.12
E5216752	0.09	32.3	855	11.0	2.7	0.012	0.272	0.61	16.3	3.3	0.9	106	<0.01	0.13
E5216753	0.16	2.4	1280	4.2	3.6	0.004	0.391	0.10	11.6	6.0	0.9	35.0	<0.01	0.71
E5216754	0.05	4.5	1770	31.6	2.8	0.011	0.330	1.01	8.9	7.6	0.9	43.2	<0.01	0.37
E5216755	0.18	34.0	855	4.8	2.6	0.013	1.08	1.07	9.9	3.5	0.6	72.6	0.05	0.10
E5216756	<0.05	8.3	176	1.8	0.5	0.003	3.85	0.69	1.5	1.0	<0.2	22.0	<0.01	0.02
E5216757	0.06	1.5	624	1.3	2.9	0.002	0.233	0.06	10.3	4.6	0.4	142	<0.01	0.10
E5216758	<0.05	1.2	645	10.4	33.1	0.008	4.16	0.11	2.8	30.0	0.5	95.9	<0.01	0.82
E5216759	0.19	19.6	558	1.1	1.9	0.002	0.336	0.08	6.5	1.6	0.4	45.6	0.07	0.01
E5216760	0.10	2.2	659	1.0	4.6	<0.001	1.42	<0.05	9.0	3.9	1.0	224	<0.01	0.16
E5216761	0.31	4.9	1640	7.5	2.2	0.007	0.408	0.56	2.9	15.5	0.4	190	<0.01	0.23
E5216762	0.06	1.6	878	2.1	5.0	0.002	0.218	0.85	6.5	5.0	0.4	98.9	<0.01	0.03
E5216763	0.07	1.6	807	2.3	4.5	<0.001	0.079	0.40	7.6	3.4	0.3	104	<0.01	0.03
E5216764	0.22	2.9	774	55.5	6.0	0.020	0.438	0.52	9.6	8.4	0.6	115	0.02	0.04
E5216765	0.06	13.7	787	1.0	2.0	<0.001	0.028	0.36	4.4	0.2	<0.2	52.8	<0.01	0.07
E5216766	0.10	17.7	855	1.6	2.0	<0.001	0.047	0.11	5.1	2.3	0.6	45.2	<0.01	0.28
E5216767	0.06	2.0	901	0.8	3.3	<0.001	0.097	0.07	4.3	1.5	0.9	132	<0.01	0.33
E5216768	0.05	1.9	1040	0.6	2.6	<0.001	0.676	<0.05	3.8	1.8	0.3	147	<0.01	0.10
E5216769	0.07	9.1	971	1.9	3.7	0.010	0.050	0.12	8.1	3.0	0.4	48.4	0.02	0.03
E5216770	0.27	17.5	518	2.3	3.8	<0.001	0.050	0.36	4.3	0.3	0.4	31.4	<0.01	0.02
E5216771	0.18	35.9	533	1.6	2.6	0.004	0.351	0.07	15.2	12.3	1.0	31.1	0.02	0.16
E5216772	0.10	9.7	892	0.7	5.7	0.010	1.22	<0.05	7.7	2.6	0.3	65.0	0.02	<0.01
E5216773	<0.05	2.9	635	0.9	5.2	0.001	0.384	0.08	14.2	6.0	1.0	73.2	<0.01	0.10

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 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	0.01
E5216774	0.29	8.2	1060	1.8	2.0	<0.001	0.081	0.25	12.0	0.3	1.2	34.3	<0.01	0.03
E5216775	<0.05	15.2	952	0.6	58.5	<0.001	0.214	0.14	19.8	0.2	0.4	126	<0.01	0.06
E5216776	<0.05	2.7	848	1.0	3.3	<0.001	0.165	0.13	6.8	2.6	0.5	128	<0.01	0.15
E5216777	0.11	8.1	1310	1.1	3.6	<0.001	0.107	0.08	6.9	<0.2	0.4	56.9	<0.01	0.02
E5216778	0.15	3.6	1300	0.6	7.4	0.001	0.078	0.06	7.1	0.3	0.4	39.0	<0.01	0.05
E5216779	0.09	14.9	1660	0.8	3.2	<0.001	0.376	0.09	8.5	0.3	0.3	53.1	<0.01	0.14
E5216780	<0.05	33.7	547	0.3	68.9	<0.001	0.015	0.26	8.8	<0.2	0.3	29.6	<0.01	0.01
E5216781	0.19	19.6	1440	0.3	2.8	<0.001	0.032	0.06	5.0	<0.2	0.3	38.3	<0.01	0.02
E5216782	0.31	34.6	2210	1.0	4.5	<0.001	0.216	0.13	3.7	1.3	0.4	46.4	<0.01	0.03
E5216783	0.10	124	1360	0.4	8.4	<0.001	0.023	0.13	5.2	<0.2	0.3	39.0	<0.01	0.01
E5216784	0.12	27.5	886	0.3	5.9	<0.001	0.025	0.13	10.4	<0.2	0.6	37.6	<0.01	0.03
E5216785	0.18	4.1	1170	1.2	4.6	<0.001	0.099	0.17	4.8	<0.2	0.4	78.4	<0.01	0.05
E5216786	0.08	18.8	413	2.5	0.5	0.002	0.908	0.35	6.5	9.4	0.6	59.4	<0.01	0.64
E5216787	0.06	17.5	1220	90.7	3.7	0.002	0.678	0.64	10.1	0.3	0.4	16.4	<0.01	0.05
E5216788	0.17	1.5	1420	5.1	3.7	0.002	1.09	0.13	8.1	6.9	1.4	113	<0.01	0.37
E5216789	0.38	34.6	964	3.9	1.7	0.048	2.94	0.15	7.7	7.9	1.3	57.6	<0.01	1.34
E5216790	0.50	36.6	409	8507	2.0	0.034	16.9	208	1.1	192	101	29.0	0.05	0.75
E5216791	0.13	9.4	1000	37.6	3.6	<0.001	0.170	1.13	8.7	0.8	0.9	68.2	<0.01	0.08
E5216792	0.07	105	1360	0.8	3.4	<0.001	0.088	0.13	6.4	<0.2	0.2	64.3	<0.01	0.05
E5216793	0.16	6.7	879	1.2	3.5	<0.001	0.073	0.31	4.4	<0.2	0.2	95.7	<0.01	0.03
E5216794	0.11	7.4	617	1.5	3.4	<0.001	0.025	0.45	6.6	<0.2	0.3	109	<0.01	0.03
E5216795	0.08	5.1	1280	0.5	5.2	<0.001	0.041	0.14	5.9	<0.2	0.2	33.1	<0.01	0.02
E5216796	0.66	12.3	1910	2.0	2.4	0.010	1.02	0.20	6.9	0.5	0.6	27.3	<0.01	0.10
E5216797	0.10	7.3	759	0.3	17.6	<0.001	0.079	0.05	4.8	<0.2	0.2	88.1	<0.01	0.03
E5216798	0.07	10.5	950	0.2	51.9	0.001	0.544	<0.05	8.8	0.8	0.3	114	<0.01	0.05
E5216799	0.79	45.4	1240	5.6	2.6	0.016	0.408	0.32	3.8	5.7	0.4	26.3	<0.01	0.13
E5216800	0.74	72.8	1360	1.8	2.8	0.026	1.36	0.26	4.8	18.6	0.4	31.1	<0.01	0.10
E5216801	0.26	17.7	1180	0.8	4.9	<0.001	0.206	0.20	3.6	0.4	0.4	37.9	<0.01	0.10
E5216802	0.15	7.3	1190	0.8	5.5	<0.001	0.030	0.07	3.9	<0.2	0.3	109	<0.01	0.01
E5216803	0.14	3.2	596	38.4	2.8	0.004	0.124	1.27	6.3	5.5	1.0	107	0.02	0.03
E5216804	0.12	18.4	1040	0.5	4.8	0.012	0.856	<0.05	6.5	5.6	0.5	136	<0.01	0.11
E5216805	0.14	18.0	969	1.1	2.1	0.008	1.80	0.29	6.1	9.0	1.2	101	<0.01	0.18

Certified By:

Results relate only to the items tested

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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 09, 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	0.01
E5216806	0.28	11.5	792	1.5	2.9	0.001	0.044	0.16	9.3	2.9	0.8	113	<0.01	0.11
E5216807	0.33	3.7	769	0.8	3.9	0.002	0.032	<0.05	9.8	2.2	0.4	41.2	<0.01	0.03
E5216808	0.20	9.0	1170	1.2	2.8	0.013	0.520	<0.05	5.7	2.7	0.7	129	<0.01	0.07
E5216809	0.08	48.5	447	13.6	2.7	0.004	0.049	0.33	11.2	2.3	0.3	86.6	<0.01	0.28
E5216810	0.30	18.6	517	2.3	3.7	<0.001	0.046	0.34	4.7	0.3	0.4	31.2	<0.01	0.02
E5216811	0.14	23.8	332	17.3	2.2	<0.001	0.977	0.41	5.2	32.3	1.2	40.5	0.01	0.59
E5216812	0.20	22.3	464	1.6	2.4	0.009	2.06	0.17	7.7	13.2	3.5	45.3	<0.01	0.28
E5216813	0.05	6.7	927	2.0	0.7	<0.001	0.031	0.37	5.6	<0.2	<0.2	159	<0.01	0.04

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 2011 | SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Pb-OL	Zn-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	0.05	0.01
E5216710	1.0	0.116	0.06	0.26	63.0	24.7	7.65	43.9	7.7	-	-	-
E5216711	1.0	0.170	0.02	0.68	131	0.09	8.51	25.0	6.3	-	-	-
E5216712	0.2	0.194	0.03	0.12	182	<0.05	6.14	14.9	6.6	-	-	-
E5216713	0.2	0.175	0.05	0.11	133	<0.05	6.47	32.0	8.6	-	-	-
E5216714	1.5	0.262	0.07	4.05	868	<0.05	20.4	32.7	31.6	-	-	-
E5216715	1.5	0.086	0.08	3.54	704	<0.05	5.40	101	19.8	-	-	-
E5216716	0.3	0.363	<0.02	0.23	113	0.07	5.98	45.7	6.1	-	-	-
E5216717	0.8	0.119	<0.02	0.33	113	<0.05	5.74	13.5	9.5	-	-	-
E5216718	1.1	0.099	0.45	0.67	127	0.94	53.8	46.4	4.1	8.22	-	-
E5216719	0.6	0.156	0.10	0.46	173	0.42	15.8	283	5.1	3.28	-	-
E5216720	1.2	0.071	0.03	0.40	136	0.19	3.47	65.0	5.5	-	-	-
E5216721	0.2	0.114	0.03	0.44	118	0.22	2.64	30.8	6.0	-	-	-
E5216722	0.9	0.199	0.02	0.36	237	<0.05	8.00	75.2	6.7	-	-	-
E5216723	0.4	0.136	<0.02	0.62	47.8	<0.05	10.0	60.4	8.8	-	-	-
E5216724	1.4	0.213	<0.02	1.07	69.2	<0.05	18.6	17.7	22.1	-	-	-
E5216725	0.6	0.380	0.03	0.30	155	<0.05	15.5	28.7	20.1	-	-	-
E5216726	0.7	0.239	0.03	0.22	142	<0.05	11.2	28.8	7.4	-	-	-
E5216727	0.2	0.191	<0.02	0.09	140	<0.05	7.52	48.1	8.7	-	-	-
E5216728	1.1	0.130	0.02	0.21	124	<0.05	7.83	28.0	9.5	-	-	-
E5216729	0.2	0.206	<0.02	0.13	190	<0.05	8.86	43.4	6.5	-	-	-
E5216730	0.3	<0.005	29.6	2.34	19.5	1.20	3.76	>10000	2.0	1.34	1.63	9.01
E5216731	0.8	0.098	0.14	0.43	105	<0.05	6.93	997	7.2	-	-	-
E5216732	0.6	0.100	0.04	0.71	29.0	<0.05	5.86	24.3	4.1	-	-	-
E5216733	1.4	0.107	0.03	0.41	107	<0.05	5.68	34.4	6.1	-	-	-
E5216734	1.5	0.134	0.04	0.19	98.6	<0.05	7.62	93.3	7.0	-	-	-
E5216735	1.2	0.127	0.04	0.34	91.9	<0.05	9.40	26.4	8.2	-	-	-
E5216736	0.8	0.162	0.06	0.70	89.0	<0.05	8.20	35.5	6.1	-	-	-
E5216737	1.0	0.282	0.03	0.47	156	<0.05	6.09	29.5	2.2	-	-	-
E5216738	0.7	0.290	0.05	0.49	123	<0.05	10.9	12.9	1.8	-	-	-
E5216739	0.9	0.126	<0.02	0.40	102	<0.05	6.77	24.7	4.0	-	-	-
E5216740	1.0	0.181	<0.02	0.60	172	<0.05	7.03	21.6	6.5	-	-	-
E5216741	1.2	0.282	<0.02	0.64	80.1	<0.05	15.7	10.5	15.7	-	-	-

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

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 09, 2011 SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Pb-OL	Zn-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	0.05	0.01
E5216742	0.8	0.114	<0.02	0.43	145	<0.05	8.82	31.0	3.9	-	-	-
E5216743	1.3	0.057	0.03	0.17	97.0	<0.05	5.21	51.4	4.8	-	-	-
E5216744	1.0	0.082	<0.02	0.19	81.5	<0.05	6.77	39.1	9.2	-	-	-
E5216745	1.3	0.108	<0.02	0.18	123	<0.05	6.14	30.7	6.9	-	-	-
E5216746	1.2	0.097	<0.02	0.21	117	<0.05	8.80	86.9	6.5	-	-	-
E5216747	0.9	0.106	<0.02	0.21	120	<0.05	9.08	94.6	9.8	-	-	-
E5216748	1.0	0.076	0.03	0.32	140	<0.05	10.8	164	9.6	-	-	-
E5216749	0.5	0.098	0.46	0.50	151	0.23	9.95	118	3.7	17.2	-	-
E5216750	1.0	0.061	12.6	1.08	41.4	0.64	5.78	>10000	6.3	-	-	3.94
E5216751	1.1	0.203	0.14	0.65	95.6	0.14	13.9	45.9	8.2	-	-	-
E5216752	1.0	0.259	0.30	0.72	242	0.15	13.9	85.7	5.0	-	-	-
E5216753	0.6	0.214	0.04	0.38	187	0.35	6.03	59.4	8.9	-	-	-
E5216754	0.5	0.020	0.26	0.43	106	<0.05	8.58	202	2.5	-	-	-
E5216755	0.3	0.040	0.68	0.29	114	0.14	62.3	187	2.3	1.31	-	-
E5216756	<0.1	<0.005	0.08	0.10	14.9	<0.05	26.4	78.7	0.6	-	-	-
E5216757	0.9	0.092	0.03	0.25	115	<0.05	4.18	23.4	2.5	-	-	-
E5216758	0.2	<0.005	0.47	0.07	26.9	<0.05	1.39	19.5	1.5	-	-	-
E5216759	0.3	0.034	0.08	0.10	72.5	0.11	33.2	610	1.4		-	-
E5216760	1.3	0.238	0.05	0.47	135	0.83	3.65	12.7	4.5	-	-	-
E5216761	0.9	0.143	0.04	1.22	122	0.76	7.94	154	6.0	-	-	-
E5216762	1.3	0.047	0.09	0.66	108	0.11	4.95	75.9	5.5	-	-	-
E5216763	1.2	0.127	0.04	1.09	141	0.56	5.37	54.8	5.4	-	-	-
E5216764	0.7	0.236	0.05	0.48	153	0.69	12.9	187	11.4	1.12	-	-
E5216765	0.2	0.136	<0.02	0.21	76.4	0.14	4.25	19.5	4.8	-	-	-
E5216766	0.7	0.131	<0.02	0.52	110	0.23	11.0	73.6	6.3	-	-	-
E5216767	1.1	0.075	0.03	0.41	101	0.64	6.36	30.5	6.4	-	-	-
E5216768	1.0	0.094	0.03	0.33	112	0.17	4.55	11.1	7.0	-	-	-
E5216769	0.8	<0.005	0.05	0.39	78.5	0.10	30.4	111	2.5	3.83	-	-
E5216770	1.1	0.125	0.05	0.32	57.4	22.8	8.01	39.4	8.0	-	-	-
E5216771	0.4	0.103	0.07	0.77	325	0.11	11.8	144	5.3	2.33	-	-
E5216772	0.9	0.021	0.06	0.30	111	0.08	26.9	65.0	3.3	1.86	-	-
E5216773	0.8	0.086	0.07	1.21	176	0.07	4.09	24.1	2.2	-	-	-

Certified By:

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 2011 | SAMPLE TYPE: Rock

Sample Description	Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Pb-OL	Zn-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	0.05	0.01
E5216774		0.8	0.208	<0.02	0.92	149	0.64	22.1	54.1	19.1	-	-	-
E5216775		1.1	0.171	1.02	0.53	238	0.06	10.6	58.0	3.3	-	-	-
E5216776		0.9	<0.005	0.04	0.31	112	<0.05	6.10	15.5	5.5	-	-	-
E5216777		0.7	0.190	<0.02	0.42	91.0	0.13	10.1	14.6	6.7	-	-	-
E5216778		1.0	0.208	<0.02	0.55	193	0.25	8.06	20.5	7.7	-	-	-
E5216779		1.0	0.170	<0.02	0.31	165	0.22	8.06	36.7	5.4	-	-	-
E5216780		0.3	0.332	0.23	0.10	190	0.12	6.29	30.8	3.0	-	-	-
E5216781		1.4	0.228	<0.02	0.47	188	0.17	9.43	21.7	9.5	-	-	-
E5216782		1.3	0.200	<0.02	1.00	119	0.16	9.77	11.2	13.6	-	-	-
E5216783		0.9	0.186	0.03	0.36	121	0.10	7.34	29.0	10.3	-	-	-
E5216784		0.6	0.201	<0.02	0.47	193	0.12	9.54	15.8	12.2	-	-	-
E5216785		1.0	0.229	0.02	0.53	153	0.21	9.79	19.9	8.0	-	-	-
E5216786		0.8	0.210	<0.02	0.40	160	0.22	2.98	25.6	5.5	-	-	-
E5216787		1.0	0.189	0.13	0.41	153	0.21	9.23	316	11.0	-	-	-
E5216788		0.5	0.178	0.02	0.39	120	0.39	5.80	44.9	5.3	-	-	-
E5216789		1.1	0.288	0.03	1.69	157	0.54	13.8	23.1	24.8	-	-	-
E5216790		0.3	<0.005	29.7	2.32	18.9	1.07	3.84	>10000	2.1	1.32		9.21
E5216791		0.7	0.268	0.12	0.61	125	0.27	8.62	235	12.0	-	-	-
E5216792		0.6	0.224	<0.02	0.26	117	0.25	7.62	77.2	7.8	-	-	-
E5216793		0.2	0.224	0.03	0.25	119	0.16	6.55	25.8	9.7	-	-	-
E5216794		0.2	0.221	<0.02	0.13	131	0.17	6.58	40.3	9.6	-	-	-
E5216795		1.0	0.200	<0.02	0.32	165	0.12	8.12	57.5	6.8	-	-	-
E5216796		1.4	0.325	0.02	1.32	92.3	0.36	17.9	10.9	22.3	-	-	-
E5216797		0.6	0.279	0.13	0.14	147	0.07	7.31	48.9	3.7	-	-	-
E5216798		0.5	0.380	0.28	0.15	224	0.11	10.1	14.7	3.4	-	-	-
E5216799		1.7	0.211	0.05	1.17	77.2	0.30	12.9	54.1	16.4	-	-	-
E5216800		2.3	0.229	0.15	1.52	109	0.39	15.2	16.5	21.5	-	-	-
E5216801		0.7	0.206	<0.02	0.46	158	0.18	9.17	22.7	13.4	-	-	-
E5216802		0.9	0.216	<0.02	0.45	249	0.13	7.30	20.6	6.6	-	-	-
E5216803		0.7	0.007	0.23	0.20	69.1	0.08	23.9	81.7	1.7	1.28	-	-
E5216804		1.1	0.127	0.03	0.55	170	0.09	7.28	24.8	5.8	-	-	-
E5216805		0.7	0.209	0.02	0.75	107	0.30	10.2	18.7	10.3	-	-	-

Certified By:

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 2011 SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-OL	Pb-OL	Zn-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	0.05	0.01
E5216806	1.0	0.208	0.03	0.81	159	0.29	12.3	60.9	9.9	-	-	-
E5216807	1.2	0.181	0.03	0.41	131	0.61	10.4	37.1	7.0	-	-	-
E5216808	1.0	0.201	0.02	0.94	132	0.23	9.06	25.4	7.8	-	-	-
E5216809	0.2	0.160	0.03	1.23	153	0.52	4.33	390	2.8	-	-	-
E5216810	1.1	0.118	0.06	0.33	58.1	23.5	7.73	39.6	8.4	-	-	-
E5216811	0.2	0.083	0.03	0.32	127	0.15	3.52	29.2	5.8	2.75	-	-
E5216812	0.9	0.349	<0.02	4.48	160	0.29	5.35	38.0	21.7	-	-	-
E5216813	0.1	0.083	<0.02	0.10	83.0	<0.05	6.45	19.8	5.5	-	-	-

Comments: RDL - Reported Detection Limit

Certified By:

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 2011 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au
Unit:	kg	ppm
Sample Description RDL:	0.01	0.001
E5216710	0.10	<0.001
E5216711	0.92	0.012
E5216712	0.98	0.001
E5216713	0.92	0.045
E5216714	0.88	0.007
E5216715	0.70	0.029
E5216716	0.84	0.003
E5216717	0.86	<0.001
E5216718	0.54	0.058
E5216719	0.96	0.250
E5216720	0.90	0.005
E5216721	1.02	0.025
E5216722	1.22	0.069
E5216723	1.10	0.012
E5216724	0.66	0.067
E5216725	0.84	<0.001
E5216726	1.02	0.004
E5216727	0.86	0.019
E5216728	0.68	0.001
E5216729	0.82	0.011
E5216730	0.08	2.02
E5216731	0.76	<0.001
E5216732	0.84	<0.001
E5216733	0.92	<0.001
E5216734	0.92	0.002
E5216735	1.36	0.008
E5216736	0.62	0.376
E5216737	0.94	0.005
E5216738	0.76	0.003
E5216739	0.92	0.002
E5216740	1.06	<0.001
E5216741	0.80	0.044

Certified By:

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 2011 | SAMPLE TYPE: Rock

	Analyte:	Sample Login Weight	Au
	Unit:	kg	ppm
Sample Description	RDL:	0.01	0.001
E5216742		1.04	0.013
E5216743		0.94	0.083
E5216744		1.00	0.017
E5216745		1.02	0.001
E5216746		0.78	<0.001
E5216747		0.82	0.042
E5216748		1.00	0.001
E5216749		0.42	0.098
E5216750		0.10	0.920
E5216751		0.96	0.239
E5216752		0.96	0.226
E5216753		0.86	0.030
E5216754		0.62	0.075
E5216755		0.78	0.100
E5216756		0.90	0.006
E5216757		0.92	0.057
E5216758		0.82	0.027
E5216759		0.78	0.017
E5216760		0.90	0.015
E5216761		0.92	0.060
E5216762		1.12	0.003
E5216763		1.08	0.014
E5216764		0.96	0.152
E5216765		0.92	<0.001
E5216766		1.00	0.039
E5216767		1.02	0.016
E5216768		1.02	0.006
E5216769		0.70	0.072
E5216770		0.10	<0.001
E5216771		0.74	0.516
E5216772		0.88	0.068
E5216773		0.94	0.037

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001

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 09, 2011 SAMPLE TYPE: Rock

	Analyte:	Sample Login Weight	Au
	Unit:	kg	ppm
Sample Description	RDL:	0.01	0.001
E5216774		0.86	0.020
E5216775		1.08	0.038
E5216776		0.88	0.016
E5216777		0.84	0.023
E5216778		0.68	0.009
E5216779		0.82	<0.001
E5216780		0.64	<0.001
E5216781		0.81	0.002
E5216782		0.92	0.001
E5216783		0.94	0.023
E5216784		1.30	<0.001
E5216785		1.34	0.002
E5216786		1.26	0.306
E5216787		1.04	0.022
E5216788		0.76	0.052
E5216789		0.92	0.035
E5216790		0.08	2.14
E5216791		0.98	0.002
E5216792		1.00	<0.001
E5216793		1.08	0.001
E5216794		1.04	0.005
E5216795		0.82	0.002
E5216796		0.98	<0.001
E5216797		0.82	<0.001
E5216798		0.86	<0.001
E5216799		1.02	0.036
E5216800		1.00	0.032
E5216801		1.06	0.033
E5216802		0.86	0.015
E5216803		0.80	0.171
E5216804		0.92	0.084
E5216805		1.02	0.082

Certified By:

Results relate only to the items tested

Certificate of Analysis

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

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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 09, 2011 | SAMPLE TYPE: Rock

	Analyte:	Sample Login Weight	Au
	Unit:	kg	ppm
Sample Description	RDL:	0.01	0.001
E5216806		1.38	0.017
E5216807		0.68	0.133
E5216808		0.96	0.167
E5216809		0.78	0.062
E5216810		0.10	<0.001
E5216811		0.96	0.491
E5216812		0.92	0.062
E5216813		1.12	0.025

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES | AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001 | ATTENTION TO: RICHARD BECK

Solid Analysis

RPT Date: Nov 09, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817297	0.491	0.541	9.7%	< 0.001	0.0795	0.0849	94%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817205	0.069	0.071	2.9%	< 0.001	0.0761	0.0849	90%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817219	0.376	0.463	20.7%	< 0.001	0.0728	0.0849	86%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817232	0.042	0.002		< 0.001	0.0764	0.0849	90%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817246	0.0595	0.0530	11.6%	< 0.001	0.9	0.922	98%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817258	0.0368	0.0477	25.8%	< 0.001	0.0746	0.0849	88%	90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817272	0.306	0.297	3.0%	< 0.001				90%	110%
Fire Assay - Trace Au, ICP-OES finish (202052)											
Au	1	2817284	< 0.001	< 0.001	0.0%	< 0.001				90%	110%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1	2817297	4.69	4.98	6.0%	0.03				80%	120%
Al	1	2817194	3.76	3.70	1.6%	< 0.01				80%	120%
As	1	2817297	10.3	8.53	18.8%	0.2				80%	120%
Au	1	2817297	495	604	19.8%	< 1				80%	120%
B	1	2817297	7	8	13.3%	< 5	6.96	7.00	99%	80%	120%
Ba	1	2817194	27	26	3.8%	< 1				80%	120%
Be	1	2817297	0.21	0.19	10.0%	< 0.05				80%	120%
Bi	1	2817297	0.47	0.50	6.2%	< 0.01				80%	120%
Ca	1	2817194	2.55	2.51	1.6%	< 0.01				80%	120%
Cd	1	2817297	0.190	0.145	26.9%	< 0.01				80%	120%
Ce	1	2817297	3.27	3.51	7.1%	< 0.01				80%	120%
Co	1	2817297	26.2	28.2	7.4%	< 0.1	5.7	5.0	113%	80%	120%
Cr	1	2817297	47.0	52.4	10.9%	< 0.5				80%	120%
Cs	1	2817297	0.65	0.69	6.0%	< 0.05				80%	120%
Cu	1	2817194	699	709	1.4%	0.2	3773	3800	99%	80%	120%
Fe	1	2817194	4.84	4.78	1.2%	< 0.01				80%	120%
Ga	1	2817297	8.40	9.20	9.1%	< 0.05				80%	120%
Ge	1	2817297	0.177	0.132	29.1%	0.07				80%	120%
Hf	1	2817297	0.15	0.16	6.5%	< 0.02				80%	120%
Hg	1	2817297	0.46	0.54	16.0%	< 0.01				80%	120%
In	1	2817297	0.471	0.521	10.1%	< 0.005				80%	120%
K	1	2817194	0.07	0.07	0.0%	< 0.01				80%	120%
La	1	2817297	1.4	1.5	6.9%	< 0.1				80%	120%

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES | AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001 | ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Nov 09, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Li	1	2817297	5.02	5.21	3.7%	< 0.1				80%	120%
Mg	1	2817194	0.395	0.385	2.6%	< 0.01				80%	120%
Mn	1	2817194	232	228	1.7%	< 1				80%	120%
Mo	1	2817297	2.46	2.67	8.2%	< 0.05				80%	120%
Na	1	2817194	0.416	0.413	0.7%	< 0.01				80%	120%
Nb	1	2817297	0.14	0.15	6.9%	< 0.05				80%	120%
Ni	1	2817194	15.9	15.5	2.5%	< 0.2				80%	120%
P	1	2817194	945	943	0.2%	< 10				80%	120%
Pb	1	2817297	17.3	18.0	4.0%	< 0.1				80%	120%
Rb	1	2817297	2.24	2.46	9.4%	< 0.1	10	13	78%	80%	120%
Re	1	2817297	< 0.001	< 0.001	0.0%	0.003				80%	120%
S	1	2817194	1.91	1.83	4.3%	< 0.005				80%	120%
Sb	1	2817297	0.412	0.442	7.0%	< 0.05				80%	120%
Sc	1	2817297	5.2	5.6	7.4%	< 0.1				80%	120%
Se	1	2817297	32.3	33.8	4.5%	< 0.2	0.7	0.8	83%	80%	120%
Sn	1	2817297	1.24	1.26	1.6%	< 0.2				80%	120%
Sr	1	2817297	40.5	43.6	7.4%	< 0.2	349	390	90%	80%	120%
Ta	1	2817297	0.01	0.01	0.0%	< 0.01				80%	120%
Te	1	2817297	0.595	0.615	3.3%	0.01				80%	120%
Th	1	2817297	0.2	0.2	0.0%	< 0.1	1	1.4	73%	80%	120%
Ti	1	2817194	0.170	0.160	6.1%	< 0.005				80%	120%
Tl	1	2817297	0.03	0.03	0.0%	< 0.02				80%	120%
U	1	2817297	0.321	0.348	8.1%	< 0.05	1	0.8	119%	80%	120%
V	1	2817297	127	139	9.0%	< 0.5				80%	120%
W	1	2817297	0.15	0.16	6.5%	< 0.05				80%	120%
Y	1	2817297	3.52	3.73	5.8%	< 0.05		7		80%	120%
Zn	1	2817194	25.0	21.1	16.9%	< 0.5				80%	120%
Zr	1	2817297	5.82	6.68	13.8%	< 0.5				80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1	2817219	1.55	1.67	7.5%	0.01				80%	120%
Al	1	2817219	2.10	1.72	19.9%	< 0.01				80%	120%
As	1	2817219	4.59	4.42	3.8%	0.6				80%	120%
Au	1	2817219	371	545		< 1				80%	120%
B	1	2817219	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2817219	129	121	6.4%	< 1				80%	120%
Be	1	2817219	0.29	0.29	0.0%	< 0.05	0.3	0.4	75%	80%	120%
Bi	1	2817219	0.092	0.097	5.3%	< 0.01				80%	120%
Ca	1	2817219	1.18	0.96	20.6%	< 0.01				80%	120%
Cd	1	2817219	0.105	0.103	1.9%	< 0.01				80%	120%
Ce	1	2817219	10.4	10.0	3.9%	< 0.01				80%	120%
Co	1	2817219	4.8	5.3	9.9%	< 0.1				80%	120%
Cr	1	2817219	37.9	36.6	3.5%	< 0.5				80%	120%
Cs	1	2817219	0.511	0.483	5.6%	< 0.05				80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES
AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001
ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Nov 09, 2011		REPLICATE					REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD	Method Blank	Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Cu	1	2817219	970	1010	4.0%	0.2	4045	3800	106%	80%	120%
Fe	1	2817219	3.04	2.61	15.2%	< 0.01				80%	120%
Ga	1	2817219	6.23	6.12	1.8%	< 0.05				80%	120%
Ge	1	2817219	0.13	0.13	0.0%	0.09				80%	120%
Hf	1	2817219	0.20	0.16	22.2%	< 0.02				80%	120%
Hg	1	2817219	0.060	0.065	8.0%	0.02				80%	120%
In	1	2817219	0.134	0.143	6.5%	< 0.005				80%	120%
K	1	2817219	0.057	0.049	15.1%	< 0.01				80%	120%
La	1	2817219	4.57	4.42	3.3%	< 0.1				80%	120%
Li	1	2817219	5.9	5.9	0.0%	< 0.1				80%	120%
Mg	1	2817219	0.393	0.343	13.6%	< 0.01				80%	120%
Mn	1	2817219	166	159	4.3%	< 1				80%	120%
Mo	1	2817219	3.85	3.72	3.4%	< 0.05				80%	120%
Na	1	2817219	0.14	0.12	15.4%	< 0.01				80%	120%
Nb	1	2817219	0.16	0.08		< 0.05				80%	120%
Ni	1	2817219	4.94	5.34	7.8%	< 0.2				80%	120%
P	1	2817219	733	757	3.2%	< 10				80%	120%
Pb	1	2817219	1.9	1.8	5.4%	0.3				80%	120%
Rb	1	2817219	2.7	2.7	0.0%	< 0.1				80%	120%
Re	1	2817219	0.004	0.004	0.0%	< 0.001				80%	120%
S	1	2817219	0.0507	0.0479	5.7%	< 0.005				80%	120%
Sb	1	2817219	0.089	0.071	22.5%	< 0.05				80%	120%
Sc	1	2817219	6.9	6.9	0.0%	< 0.1				80%	120%
Se	1	2817219	3.4	3.2	6.1%	< 0.2	0.6	0.8	81%	80%	120%
Sn	1	2817219	0.6	0.6	0.0%	< 0.2				80%	120%
Sr	1	2817219	314	285	9.7%	1.2	299	390	77%	80%	120%
Ta	1	2817219	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2817219	0.163	0.145	11.7%	< 0.01				80%	120%
Th	1	2817219	0.8	0.8	0.0%	< 0.1	1	1.4	74%	80%	120%
Ti	1	2817219	0.162	0.118		< 0.005				80%	120%
Tl	1	2817219	0.065	0.065	0.0%	< 0.02				80%	120%
U	1	2817219	0.699	0.674	3.6%	< 0.05	0.8	0.8	100%	80%	120%
V	1	2817219	89.0	83.6	6.3%	0.5				80%	120%
W	1	2817219	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Y	1	2817219	8.20	7.63	7.2%	< 0.05		7		80%	120%
Zn	1	2817219	35.5	36.3	2.2%	13.3				80%	120%
Zr	1	2817219	6.10	5.01	19.6%	< 0.5				80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1	2817246	0.855	0.842	1.5%	< 0.01				80%	120%
Al	1	2817246	1.03	1.02	1.0%	< 0.01				80%	120%
As	1	2817246	10.8	10.6	1.9%	< 0.1				80%	120%
Au	1	2817246	58	38		< 1				80%	120%
B	1	2817246	< 5	< 5	0.0%	< 5	5.14	7.00	73%	80%	120%

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES | AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001 | ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Nov 09, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Ba	1	2817246	90	96	6.5%	< 1				80%	120%
Be	1	2817246	0.118	0.114	3.4%	< 0.05	0.3	0.4	74%	80%	120%
Bi	1	2817246	0.29	0.29	0.0%	< 0.01				80%	120%
Ca	1	2817246	0.497	0.490	1.4%	< 0.01				80%	120%
Cd	1	2817246	1.71	1.66	3.0%	< 0.01				80%	120%
Ce	1	2817246	22.2	22.2	0.0%	< 0.01				80%	120%
Co	1	2817246	45.9	45.3	1.3%	< 0.1				80%	120%
Cr	1	2817246	30.5	30.7	0.7%	< 0.5				80%	120%
Cs	1	2817246	0.271	0.265	2.2%	< 0.05				80%	120%
Cu	1	2817246	1760	1790	1.7%	< 0.1	4210	3800	110%	80%	120%
Fe	1	2817246	16.0	16.1	0.6%	< 0.01				80%	120%
Ga	1	2817246	7.28	7.03	3.5%	< 0.05				80%	120%
Ge	1	2817246	0.23	0.19	19.0%	< 0.05				80%	120%
Hf	1	2817246	0.186	0.169	9.6%	< 0.02				80%	120%
Hg	1	2817246	0.131	0.136	3.7%	< 0.01				80%	120%
In	1	2817246	0.0330	0.0312	5.6%	< 0.005				80%	120%
K	1	2817246	0.09	0.09	0.0%	< 0.01				80%	120%
La	1	2817246	13.7	13.6	0.7%	< 0.1				80%	120%
Li	1	2817246	1.46	1.40	4.2%	< 0.1				80%	120%
Mg	1	2817246	0.22	0.23	4.4%	< 0.01				80%	120%
Mn	1	2817246	639	648	1.4%	< 1				80%	120%
Mo	1	2817246	139	138	0.7%	< 0.05				80%	120%
Na	1	2817246	0.12	0.12	0.0%	< 0.01				80%	120%
Nb	1	2817246	0.310	0.243	24.2%	< 0.05				80%	120%
Ni	1	2817246	4.90	4.95	1.0%	< 0.2				80%	120%
P	1	2817246	1640	1650	0.6%	< 10				80%	120%
Pb	1	2817246	7.5	7.5	0.0%	< 0.1				80%	120%
Rb	1	2817246	2.2	2.2	0.0%	< 0.1				80%	120%
Re	1	2817246	0.0068	0.0062	9.2%	< 0.001				80%	120%
S	1	2817246	0.408	0.429	5.0%	< 0.005				80%	120%
Sb	1	2817246	0.558	0.534	4.4%	< 0.05				80%	120%
Sc	1	2817246	2.85	2.78	2.5%	< 0.1				80%	120%
Se	1	2817246	15.5	15.0	3.3%	< 0.2	0.7	0.8	87%	80%	120%
Sn	1	2817246	0.4	0.4	0.0%	< 0.2				80%	120%
Sr	1	2817246	190	190	0.0%	0.2	320	390	82%	80%	120%
Ta	1	2817246	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2817246	0.23	0.23	0.0%	< 0.01				80%	120%
Th	1	2817246	0.9	0.9	0.0%	< 0.1	1	1.4	73%	80%	120%
Ti	1	2817246	0.143	0.140	2.1%	< 0.005				80%	120%
Tl	1	2817246	0.04	0.04	0.0%	< 0.02				80%	120%
U	1	2817246	1.22	1.22	0.0%	< 0.05	0.8	0.8	100%	80%	120%
V	1	2817246	122	126	3.2%	0.8				80%	120%
W	1	2817246	0.756	0.701	7.5%	< 0.05				80%	120%
Y	1	2817246	7.94	7.54	5.2%	< 0.05		7		80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Nov 09, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Zn	1	2817246	154	155	0.6%	1.6				80%	120%
Zr	1	2817246	6.0	5.4	10.5%	< 0.5				80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1	2817272	2.13	2.19	2.8%	< 0.01				80%	120%
Al	1	2817272	1.56	1.79	13.7%	< 0.01				80%	120%
As	1	2817272	20.7	21.3	2.9%	0.2				80%	120%
Au	1	2817272	232	311	29.1%	< 1				80%	120%
B	1	2817272	< 5	< 5	0.0%	< 5	4.93	7.00	70%	80%	120%
Ba	1	2817272	7	8	13.3%	< 1				80%	120%
Be	1	2817272	0.064	0.067	4.6%	< 0.05	0.3	0.4	76%	80%	120%
Bi	1	2817272	0.102	0.107	4.8%	< 0.01				80%	120%
Ca	1	2817272	1.00	1.23	20.6%	< 0.01				80%	120%
Cd	1	2817272	0.15	0.17	12.5%	< 0.01				80%	120%
Ce	1	2817272	7.78	8.85	12.9%	< 0.01				80%	120%
Co	1	2817272	89.6	88.7	1.0%	< 0.1				80%	120%
Cr	1	2817272	52.0	56.6	8.5%	< 0.5				80%	120%
Cs	1	2817272	0.055	0.054	1.8%	< 0.05				80%	120%
Cu	1	2817272	4370	4450	1.8%	< 0.1	3889	3800	102%	80%	120%
Fe	1	2817272	8.56	9.11	6.2%	< 0.01				80%	120%
Ga	1	2817272	10.0	11.0	9.5%	< 0.05				80%	120%
Ge	1	2817272	0.15	0.16	6.5%	0.06				80%	120%
Hf	1	2817272	0.16	0.17	6.1%	< 0.02				80%	120%
Hg	1	2817272	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
In	1	2817272	0.0992	0.110	10.3%	< 0.005				80%	120%
K	1	2817272	0.06	0.06	0.0%	< 0.01				80%	120%
La	1	2817272	5.24	6.11	15.3%	< 0.1				80%	120%
Li	1	2817272	2.15	2.21	2.8%	< 0.1				80%	120%
Mg	1	2817272	0.851	0.935	9.4%	< 0.01				80%	120%
Mn	1	2817272	354	385	8.4%	< 1				80%	120%
Mo	1	2817272	0.89	0.96	7.6%	< 0.05				80%	120%
Na	1	2817272	0.04	0.04	0.0%	< 0.01				80%	120%
Nb	1	2817272	0.08	0.10	22.2%	< 0.05				80%	120%
Ni	1	2817272	18.8	19.1	1.6%	< 0.2				80%	120%
P	1	2817272	413	436	5.4%	< 10				80%	120%
Pb	1	2817272	2.51	2.65	5.4%	< 0.1				80%	120%
Rb	1	2817272	0.5	0.5	0.0%	< 0.1				80%	120%
Re	1	2817272	0.0025	0.0025	0.0%	< 0.001				80%	120%
S	1	2817272	0.908	0.943	3.8%	< 0.005				80%	120%
Sb	1	2817272	0.35	0.38	8.2%	< 0.05				80%	120%
Sc	1	2817272	6.50	7.18	9.9%	< 0.1				80%	120%
Se	1	2817272	9.4	9.3	1.1%	< 0.2	0.7	0.8	92%	80%	120%
Sn	1	2817272	0.6	0.6	0.0%	< 0.2				80%	120%
Sr	1	2817272	59.4	76.3	24.9%	< 0.2	303	390	78%	80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES | AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001 | ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Nov 09, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Ta	1	2817272	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2817272	0.64	0.67	4.6%	< 0.01				80%	120%
Th	1	2817272	0.8	0.8	0.0%	< 0.1				80%	120%
Ti	1	2817272	0.210	0.234	10.8%	< 0.005				80%	120%
Tl	1	2817272	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2817272	0.404	0.429	6.0%	< 0.05	0.7	0.8	92%	80%	120%
V	1	2817272	160	173	7.8%	< 0.5				80%	120%
W	1	2817272	0.225	0.239	6.0%	< 0.05				80%	120%
Y	1	2817272	2.98	3.37	12.3%	< 0.05		7		80%	120%
Zn	1	2817272	25.6	25.8	0.8%	< 0.5				80%	120%
Zr	1	2817272	5.51	5.99	8.3%	< 0.5				80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1	2817297	4.05	4.22	4.1%	< 0.01				80%	120%
Al	1	2817297	2.61	2.69	3.0%	< 0.01				80%	120%
As	1	2817297	10.1	10.6	4.8%	< 0.1				80%	120%
Au	1	2817297	472	564	17.8%	< 1				80%	120%
B	1	2817297	5	5	0.0%	< 5				80%	120%
Ba	1	2817297	141	144	2.1%	< 1				80%	120%
Be	1	2817297	0.139	0.147	5.6%	< 0.05				80%	120%
Bi	1	2817297	0.46	0.47	2.2%	< 0.01				80%	120%
Ca	1	2817297	2.48	2.57	3.6%	< 0.01				80%	120%
Cd	1	2817297	0.114	0.104	9.2%	< 0.01				80%	120%
Ce	1	2817297	3.31	3.43	3.6%	< 0.01				80%	120%
Co	1	2817297	21.6	22.4	3.6%	< 0.1				80%	120%
Cr	1	2817297	41.8	43.3	3.5%	< 0.5				80%	120%
Cs	1	2817297	0.695	0.729	4.8%	< 0.05				80%	120%
Cu	1	2817297	34300	35500	3.4%	< 0.1	4113	3800	108%	80%	120%
Fe	1	2817297	6.35	6.37	0.3%	< 0.01				80%	120%
Ga	1	2817297	8.88	9.38	5.5%	< 0.05				80%	120%
Ge	1	2817297	0.12	0.13	8.0%	< 0.05				80%	120%
Hf	1	2817297	0.189	0.181	4.3%	< 0.02				80%	120%
Hg	1	2817297	0.451	0.478	5.8%	< 0.01				80%	120%
In	1	2817297	0.565	0.590	4.3%	< 0.005				80%	120%
K	1	2817297	0.08	0.08	0.0%	< 0.01				80%	120%
La	1	2817297	1.4	1.4	0.0%	< 0.1				80%	120%
Li	1	2817297	4.00	4.19	4.6%	< 0.1				80%	120%
Mg	1	2817297	0.392	0.401	2.3%	< 0.01				80%	120%
Mn	1	2817297	517	538	4.0%	< 1				80%	120%
Mo	1	2817297	2.63	2.67	1.5%	< 0.05				80%	120%
Na	1	2817297	0.064	0.066	3.1%	< 0.01				80%	120%
Nb	1	2817297	0.06	0.06	0.0%	< 0.05				80%	120%
Ni	1	2817297	23.8	25.0	4.9%	< 0.2				80%	120%
P	1	2817297	332	349	5.0%	< 10				80%	120%
Pb	1	2817297	17.1	17.5	2.3%	< 0.1				80%	120%

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES | AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001 | ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Nov 09, 2011		REPLICATE					REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD	Method Blank	Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Rb	1	2817297	2.5	2.6	3.9%	< 0.1	10	13	75%	80%	120%
Re	1	2817297	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
S	1	2817297	0.977	0.976	0.1%	< 0.005				80%	120%
Sb	1	2817297	0.574	0.580	1.0%	< 0.05				80%	120%
Sc	1	2817297	4.55	4.80	5.3%	< 0.1				80%	120%
Se	1	2817297	29.9	31.7	5.8%	< 0.2	0.7	0.8	89%	80%	120%
Sn	1	2817297	1.19	1.28	7.3%	< 0.2				80%	120%
Sr	1	2817297	36.7	39.4	7.1%	< 0.2	310	390	79%	80%	120%
Ta	1	2817297	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2817297	0.528	0.545	3.2%	< 0.01				80%	120%
Th	1	2817297	0.24	0.25	4.1%	< 0.1	1	1.4	73%	80%	120%
Ti	1	2817297	0.083	0.086	3.6%	< 0.005				80%	120%
Tl	1	2817297	0.024	0.027	11.8%	< 0.02				80%	120%
U	1	2817297	0.46	0.47	2.2%	< 0.05	1	0.8	127%	80%	120%
V	1	2817297	121	126	4.0%	< 0.5				80%	120%
W	1	2817297	15.7	15.2	3.2%	< 0.05				80%	120%
Y	1	2817297	3.33	3.55	6.4%	< 0.05		7		80%	120%
Zn	1	2817297	29.2	30.2	3.4%	< 0.5				80%	120%
Zr	1	2817297	6.54	6.63	1.4%	< 0.5				80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Cu	1					< 0.1	3773	3800	99%	80%	120%
Rb	1					< 0.1	11	13	81%	80%	120%
Se	1					< 0.2	0.6	0.8	79%	80%	120%
Sr	1					< 0.2	316	390	81%	80%	120%
Th	1					< 0.1	1	1.4	72%	80%	120%
U	1					< 0.05	1	0.8	124%	80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Cu	1					< 0.1	4191	3800	110%	80%	120%
Se	1					< 0.2	0.7	0.8	88%	80%	120%
Sr	1					< 0.2	317	390	81%	80%	120%
Th	1					< 0.1	1	1.4	75%	80%	120%
U	1					< 0.05	1	0.8	128%	80%	120%

Certified By:

Results relate only to the items tested

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES AGAT WORK ORDER: 11D540533
PROJECT NO: FSCC001 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

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES — AGAT WORK ORDER: 11D540533

PROJECT NO: FSCC001 — 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
Pb-OL	MIN-200-12032		AA
Zn-OL	MIN-200-12032		AA
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

Results relate only to the items tested

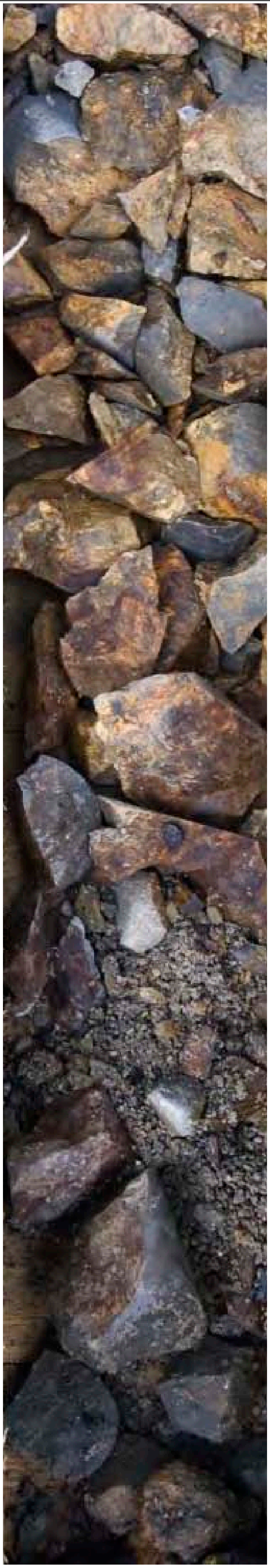
Appendix II: Lab Methodology

Mining Division
SPECIFICATIONS

AGAT Laboratories

Service Beyond Analysis ■ www.agatlabs.com

MINING DIVISION SPECIFICATIONS



AGAT Method Code: 201 074 **AGAT SOP:** MIN-200-12018

Method Description: This uses the Aqua Regis 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 geochemical 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 Gravimentric finish are performed to find the determination of gold and silver in mineralogical samples.

Sample split size: 30 g

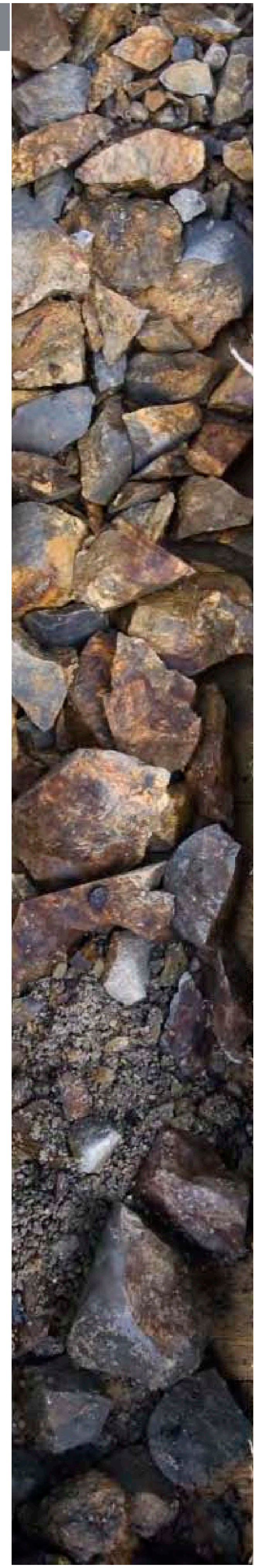
Steps

- 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 minerological 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.