2011 Technical Assessment Report for the Vault Property, Yukon Territory

Whitehorse Mining District

Claims: Vault 1-180; BC 229-323; BV 1-6
Grant #s: YD56961-YD57140; YE64829-YE64923; YC90795-YC90780

NTS Map Sheet: 115G05/06/11
NAD 83, UTM Zone 7

Centre of Property: 61° 30' 33"N, 139° 35' 35"W

July-September, 2011

Owner:
Alix Resources Corporation, Vancouver, BC
(claims held in trust by Archer-Cathro)

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1. Summary

This report describes the Vault Au-Base Metal and/or PGE prospect located in the Kluane Range of the Whitehorse Mining District in western Yukon. The area partly lies within the Kluane Mafic-Ultramafic belt, a metallogenic region which hosts several mines and mineral prospects. The Vault property and its immediate vicinities have gone through various modes and stages of exploration by several groups since the early 1900's.

The Vault group of claims is situated about 35 aerial kilometers NW of Burwash Landing, the nearest community and airport location in the area. Whitehorse, the capital city of the Yukon Territory (Figure 1), is linked to Burwash Landing through the Alaska Highway and is about 280 km. to the southeast. To the SE, Vault is also just about 5 km. from Wellgreen, a Cu-Ni-PGE deposit which is currently being explored and developed. The property is covered within one hundred eighty (180) claim blocks with an aggregate area of about 3,650 hectares (Figure 2). Thus far, there are no direct road links to the area and the prospect area can only be accessed by helicopter.

The Vault property lies within the northeastern sections of the Wrangellia Terrane, one of the major accreted blocks of the Canadian Cordillera (Figure 4). Locally, it is mainly underlain by intercalations of various andesitic to basaltic flows and associated metamorphosed clastics (Figure 5). An older Permian-aged metamorphosed volcanics and clastics assemblage serves as basement rock units and these are overlain by a sequence of Triassic to Cretaceous andesitic to basaltic lava flows. Intruding these volcano-sedimentary pile are mafic to ultramafic sills and dikes of Oligocene age. In the Yukon, it has been observed that mafic sills and dikes normally occur throughout the entire Permian meta-volcanics while the ultramafic units on the other hand are generally intruded near the contacts between meta-volcanics and the intercalated meta-sediments.

Younger and distinctive Late Cenezoic intrusive rock units cut the basement meta-rocks and younger volcanic flows. These intermediate to silicic plutons occur as narrow dikes and stocks that sharply cut the country rocks. The intrusive units crop out largely unaltered and are not associated with any of the mineralization observed in the prospect area. Tectonically, the Vault property is bounded by two sub-parallel right lateral strike-slip faults, the Duke River Fault on the southwest and the Denali Fault on the Northeast (Figure 4).

The primary targets for exploration are the mafic-ultramafic hosted base metal and PGE-rich deposits similar to Wellgreen's but so far, the base metal-Au-Ag mineralization observed is generally hosted by the Permian-aged metavolcanics and sediments. Mineralization occurs as distinct but narrow quartz-sulfide veins and/or lenticular-shaped massive sulfide masses.

The latest groundwork in the Vault property was conducted during the period of July to September, 2011 by UTM Exploration Services, Ltd. on behalf of Alix Resources. Recognizing the need for a closer look into the local geology of the area, the activities undertaken during this latest investigation were mainly field mapping and sampling. Semi-detailed examination was carried out within the entire claims block while putting more emphasis on the areas where mafic rock units were delineated by earlier investigations of the area. Likewise, a closer look was done along areas where anomalous Au/Cu values were detected from the topographic contour geochemical soil sampling survey that was completed in 2010.

No ultramafic rock outcrops, regarded as possible feeders to the younger Triassic-aged volcanics and associated with most of the known gold, base metals and PGE mineralization in the district, had been encountered within the property. Although peridotite rock floats had been noted along the lower sections of one of the creeks located NW of the property (Figure 12), no source outcrop of these materials was traced out during the recent investigation. Most likely, the possible source area of the floats is within and in the immediate vicinity of the nearest thrust fault, one of the fault zones that is associated with some of the gabbro bodies that were mapped in the area. The gabbro units encountered so far indicate no obvious correlation to the Wellgreen Mine type of PGE-rich Cu-Ni deposit. However, the NW portions of the claims where some of these gabbro outcrops as well as peridotite rock floats had been observed should be further investigated. Of prime importance is tracing out the possible source outcrop of the ultramafic floats and further assess the possible mineralization potential. In addition, clues could also be drawn out as to the possible presence of buried mafic-ultramafic bodies that could be further investigated through ground geophysical surveys.

The massive sulfide zones albeit localized that have been uncovered in the meta-rocks in the SE sections of the property are most likely related to Wellgreen type of mineralization but probably indicative of the higher levels of the system. Although the mineralization that has been observed so far appears very limited and localized, tracing out wider zones of veins or pods at depths and/or buried in the thick talus cover could still be possible. The significant Au-Ag and Cu mineralization clearly indicates possible stratigraphic-controlled massive sulfide deposits and finding lateral and vertical extensions and/or other distinct and thicker ore zones remain possible. One immediate target for follow-up investigation is a zone of about 120 hectares located at the SE section of the property (Figure 6). More detailed mapping and closer-spaced sampling combined with ground electro-magnetic surveys are suggested to define possible drilling targets. Three (3) holes with an aggregate length of 1,000 meters are recommended to be drilled after the completion of the follow-up groundwork. Subsequently, 1,000 meters more of drilling could be pursued if the initial drilling results prove successful.

In addition, an area of about 70 hectares on the NW sections of the claims stands out as an immediate target for further investigation (Figure 11 and 12). Although no ore-grade values had been picked up in the rock samples, Pt and Pd came out

anomalous in both the rock outcrop and float samples collected in this general area. More detailed mapping and ground magnetic survey are recommended to be undertaken to delineate the mafic-ultramafic zone/s, further assess their mineralization potential and eventually define possible sub-surface targets.

2. Introduction and Terms of Reference

The Vault property, is located in southwestern Yukon Territory consists of one hundred and eighty (180) "original" claim blocks (Vault 1-180) that cover an area of about 3,650 hectares plus an additional 101 contiguous claims that were staked in July, 2011 as part of the field season (BC 229-323 and BV 1-6), totaling approximately 5,600 hectares. It has always been regarded as prospective for Base metals with associated PGE +/- Au-Ag mineralization associated with the mafics-ultramafics suite of rocks. The latest field findings however, indicate that the area could be a host to possible volcanogenic massive sulfide deposits.

During the summer of 2011, UTM Exploration Services Ltd. conducted a semi-detailed mapping and sampling program in the property focusing mainly on the mafic rock units which were mapped as well as the geochemical soil anomalies, which were generated by the previous work conducted in 2010. The 2010 survey was undertaken by Archer, Cathro & Associates (1981) Ltd.

This report includes data and information that had been acquired from historical work records that had been made public prior to the implementation of National Instrument (NI) 43-101. Deficiencies in the records are aptly acknowledged whenever necessary. The author of this report is a qualified person as outlined in the NI 43-101 guidelines and the Author's Certificate appears in Section 12.

All geological terms used in this report are those of standard usage and can be referred to in published geological dictionaries. Technical information is all presented in the metric system and currency is in Canadian dollars.

3. Property Description and Location

3.1 Accessibility and Infrastructure

The Vault group of claims is situated about 35 aerial kilometers NW of Burwash Landing, the nearest community and airport location in the area. Whitehorse, the capital city of the Yukon Territory (Figure 1), is linked to Burwash Landing through the Alaska Highway and is about 280 km. to the southeast. Vault is also just about 5 km. NW of Wellgreen Mine which hosts a Cu-Ni-PGE deposit that is currently being explored and developed. During the 2011 survey, access to the prospect area was through a Bell Helicopter which flew the field crew daily to/from an exploration base camp in Destruction Bay, about 35 km SE of the property.

3.2 Mineral Tenure Information

The Vault Property, which is located in western Yukon Territory (Figure 1), is covered within two hundred and eighty-one (281) contiguous claim blocks with a total area of about 5,600 hectares. The claims are centered at latitude 61° 31' N and longitude 139° 36' W on the National Topographic Survey (NTS) sheets 115G/5, 6, 11 and 12. The individual claim locations are shown in Figures 2 (original claims) and 3 (all claims) while the claim tenure details are described as follows:

Claim Tenure Data

Claim Name	Grant Number	Expiry Date
Vault 1 to 180	YD56962 to YD57140	April 15, 2015
BC 229 to 323	YE64829 to YE64923	July 25, 2013
BV 1 to 6	YC90795 to YC90800	July 25, 2013

During the course of the summer program, with excellent results being reported out of the Wellgreen Property, and extensive staking program was executed to take advantage of some open ground that hosted the ptoential for "Wellgreen" style Cu-Ni-PGE mineralization. Staking covered an extensive land package contiguous with the Vault property to the immediate southeast (BC 229-323) and to the south (BV 1-6). As well, numerous claims were staked to the north of Alix's Corky property (see Figure 3).

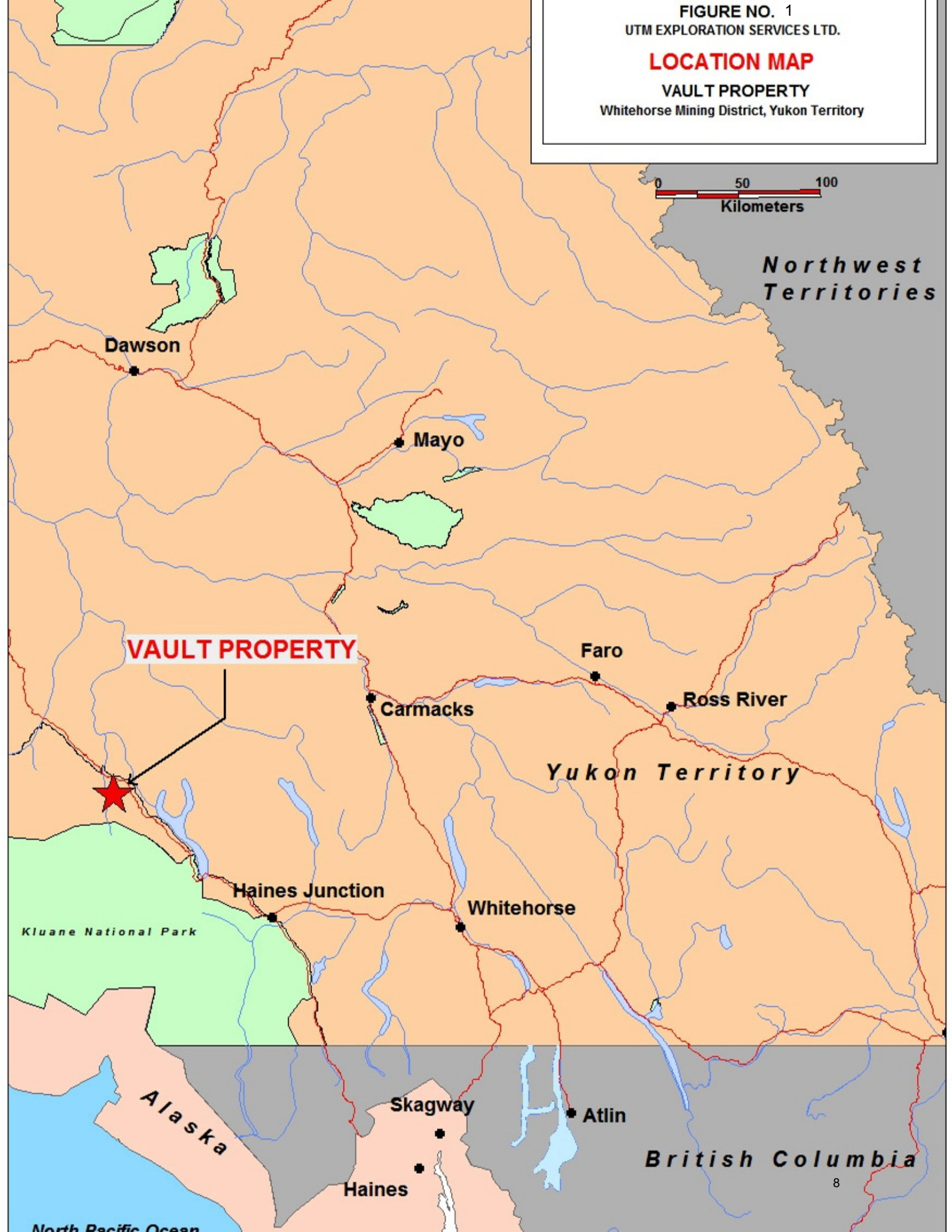
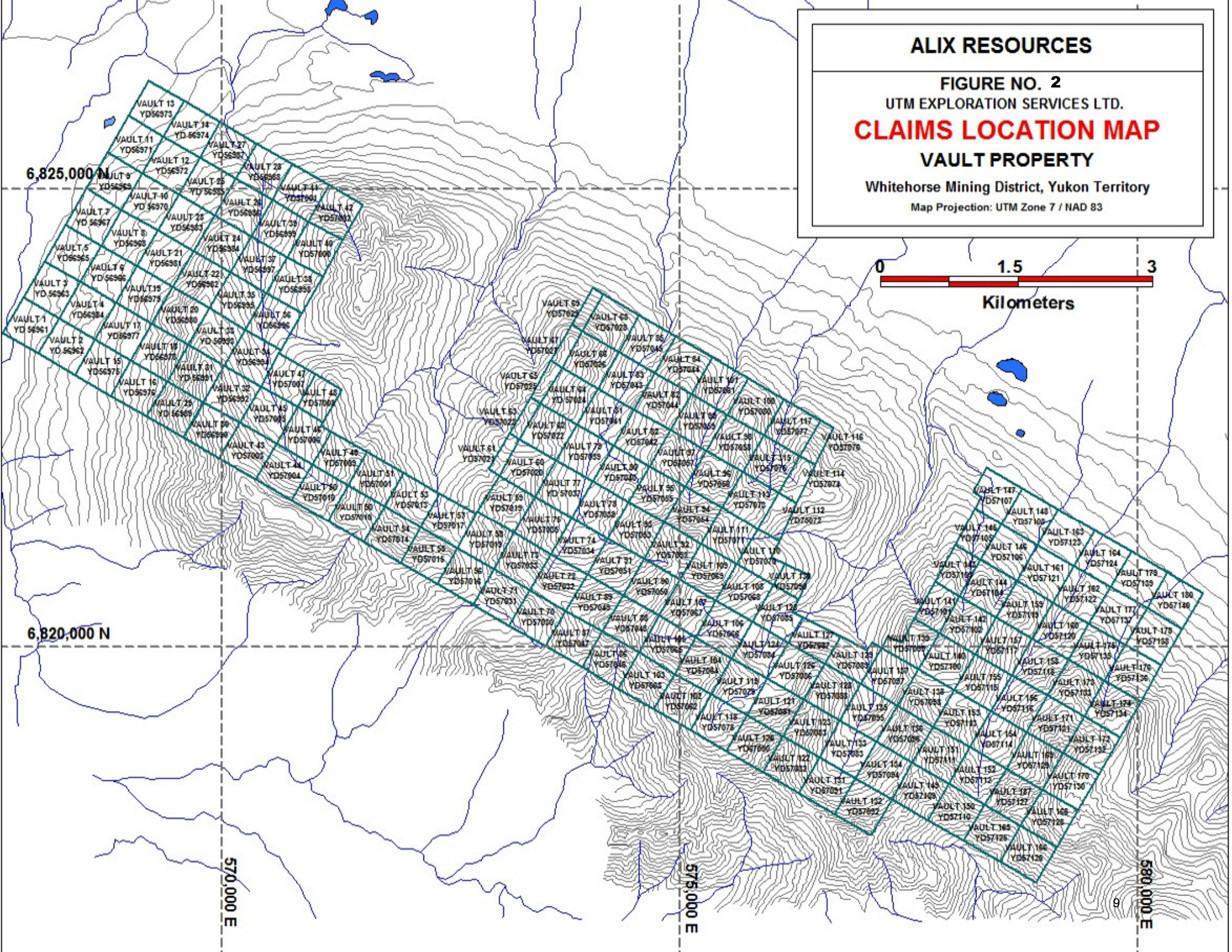


FIGURE NO. 1
UTM EXPLORATION SERVICES LTD.
LOCATION MAP
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
0
50
100
Kilometers
Northwest Territories
Dawson
Mayo
VAULT PROPERTY
Faro
Carmacks
Ross River
Yukon Territory
Haines Junction
Whitehorse
Kluane National Park
Alaska
Skagway
Atlin
Haines
British Columbia
North Pacific Ocean


ALIX RESOURCES
FIGURE NO. 2
UTM EXPLORATION SERVICES LTD.
CLAIMS LOCATION MAP
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
0
1.5
3
Kilometers
6,825,000 N
6,820,000 N
570,000 E
575,000 E
580,000 E

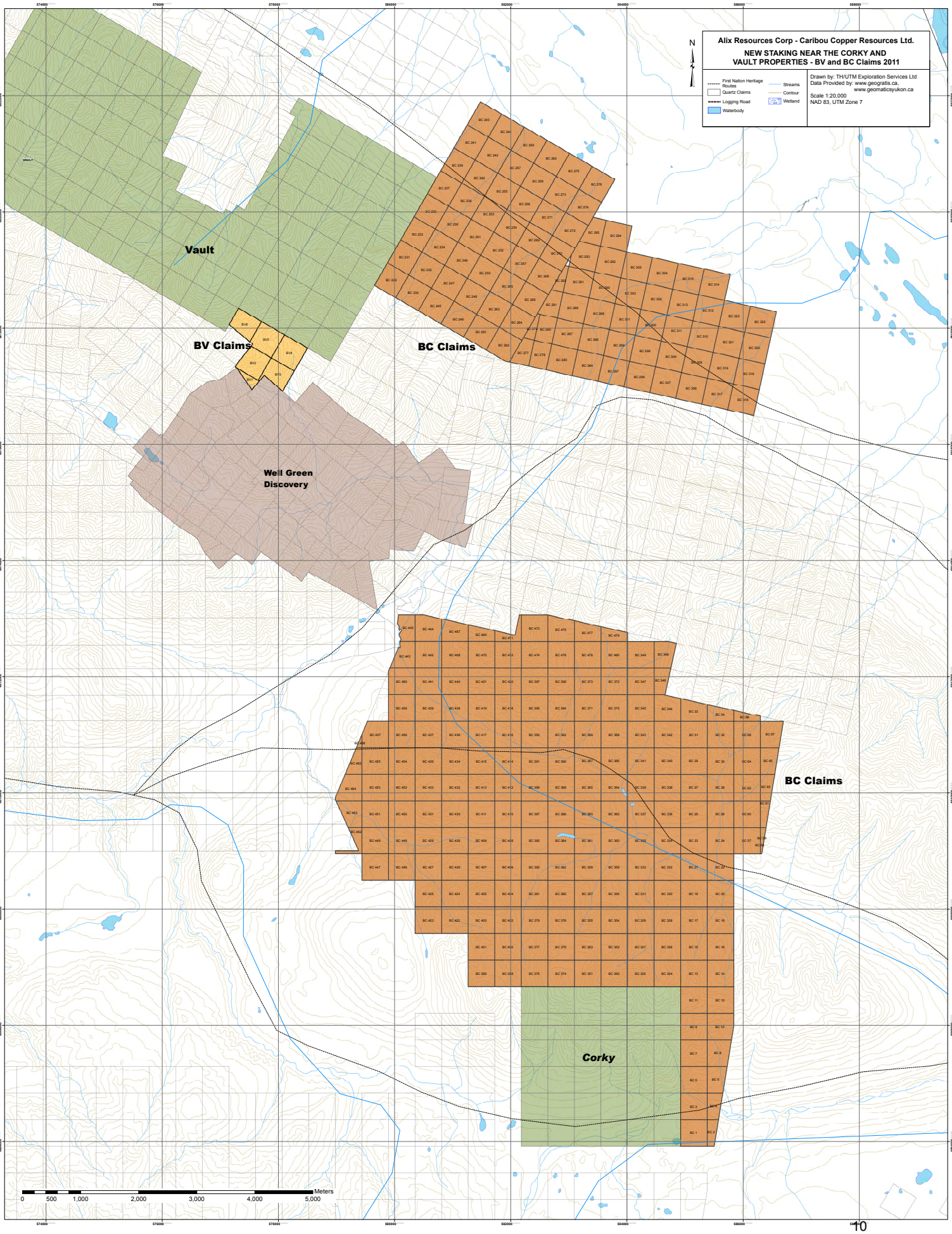


Figure 3. New Staking Map.

3.3 Physiography and Climate

The Vault property lies within the NE sections of the Kluane Mountain Range and SW of the wide Shakwak Valley. Topographic elevation ranges from 1,130 meters along the valley and up to 2,050 m. along the ridge tops. The higher elevations normally have steep slopes and varying thickness of talus materials cover the bases of the slopes. Most of the rocks crop out along the ridge lines and along the narrow drainage lines. The prospect area typifies the northern continental regions climate with long cold winters, shortened fall and spring seasons and distinctly short but cool summers. Rainfall, which is generally experienced during the summer months, accounts for most of the precipitation with an annual average of about 270mm.

4. History

The Vault property is located within the Kluane Gold Fields, a well-known gold belt where alluvial gold mining has been recorded along the major river systems since the early 1900's. No official gold production records could be retrieved although it is believed that two major gold rushes occurred throughout the area's history, one between 1903 and 1904 and another during the period of the 1920's to 1930's. Towards the period between the 1940's to the 1970's, placer mining was reported to be already mechanized as access to the alluvial areas became possible through the Alaska Highway. Reportedly, some 95,00 oz. of gold and 800 oz. of platinum were recovered just along the Burwash Creek alone during the period of 1946 to 1978. Between 1903 and the year 2000, it is estimated that more than 200,000 oz. of gold and 1,000 ounces of platinum have already been recovered from the creeks draining the Kluane Gold Fields.

More detailed exploration in the area began in 1945 due to the improved access brought about by the construction of the Alaska Highway. In 1952, Hudson Bay Mining and Smelting Ltd. developed a nickel-copper-PGE deposit and established the now known Wellgreen Mine. This deposit is just about 5 km. south of the Vault property. From 1972 to 1973, underground mining operations had produced a total of 171,652 tons with average grades of 2.23% nickel, 1.39% copper, 0.065 oz. platinum and 0.073% cobalt (McCracken, 2010). Due to ground instability, mining operations were eventually suspended.

All-North Resources Ltd. acquired the property during the late 1980's and immediately, this group conducted detailed assessment of Wellgreen. After the completion of the evaluation work in 1990, the company came up with an open pittable resource estimate of 49.9 MT at a grade of 0.36% Ni, 0.35% Cu, 550 ppb platinum and 340 ppb of palladium (Carne, 1987).

Since 1952, several exploration companies have done varying phases of exploration work within the Wellgreen Mine area and extending outwards and into portions of

the Vault property. With the primary target having always been the Wellgreen type of mineralization, the companies that undertook work in the area include the following (please refer to Figure 3):

- New Alger Mines Ltd. staked the Polaris and Ursus group of claims during the period of 1952 to 1953. No results were reported on the field assessment undertaken.

- Teck Exploration Company Ltd. staked the Musketeer and Conwest showings in 1952. The work which was carried out in 1953 included geological mapping and prospecting but likewise, no results were reported (Vanwermeskerken, 2001). Teck also completed magnetic electro-magnetic and resistivity surveys on the Musketeer claims in 1955 but the results were not significant.

- Archer, Cathro carried out work in the Dawson Range area in 1980 and 1981 for the NAT Joint Venture (NAT JV) of Chevron Canada Limited and Armco Mineral Exploration Ltd. The program involved re-analyses of over 5,000 previously collected geochemical sample splits from various media for gold, silver, arsenic and lead. From this total number of samples, sixteen (16) soil samples and 44 stream sediment samples were from the current Vault property. These samples gave out values of up to 135 ppb gold in soils and up to 425 ppb gold in stream sediments. Despite the encouraging results and the significant and still continuing alluvial gold activities in the area, no claims were staked (Archer and Onasick,1980).

- Reed Creek Join Venture staked the Valley, Reed, Pump and Swede claims to cover an aeromagnetic anomaly that coincides with a regionally extensive ultramafic sill which extends into the Ni-Cu-PGE mineralization at Wellgreen. Ground assessment work which were undertaken included reconnaissance prospecting, geologic mapping and geochemical sampling traverses. Reportedly, a high-grade Ni-Cu showing was delineated along Reed Creek but the follow-up survey eventually done did not locate any in-situ sources for the anomalies but rather, glacially transported ultramafic materials. The geochemical soil samples showed moderate gold anomalies and had also outlined elevated values for Cu-Au and Pt.

- D.E. Makkonen staked the Toby claims in 1987 to cover the headwaters of Reed Creek. Twenty nine (29) ridge and 33 topographic contour soil samples were collected at 60m. and 30m., intervals respectively, during the investigation. Nine of the most significant samples showed assay ranges of: 50 to 130 ppb Au and 350 to 1,000 ppm As. Platinum and palladium assays were insignificant.

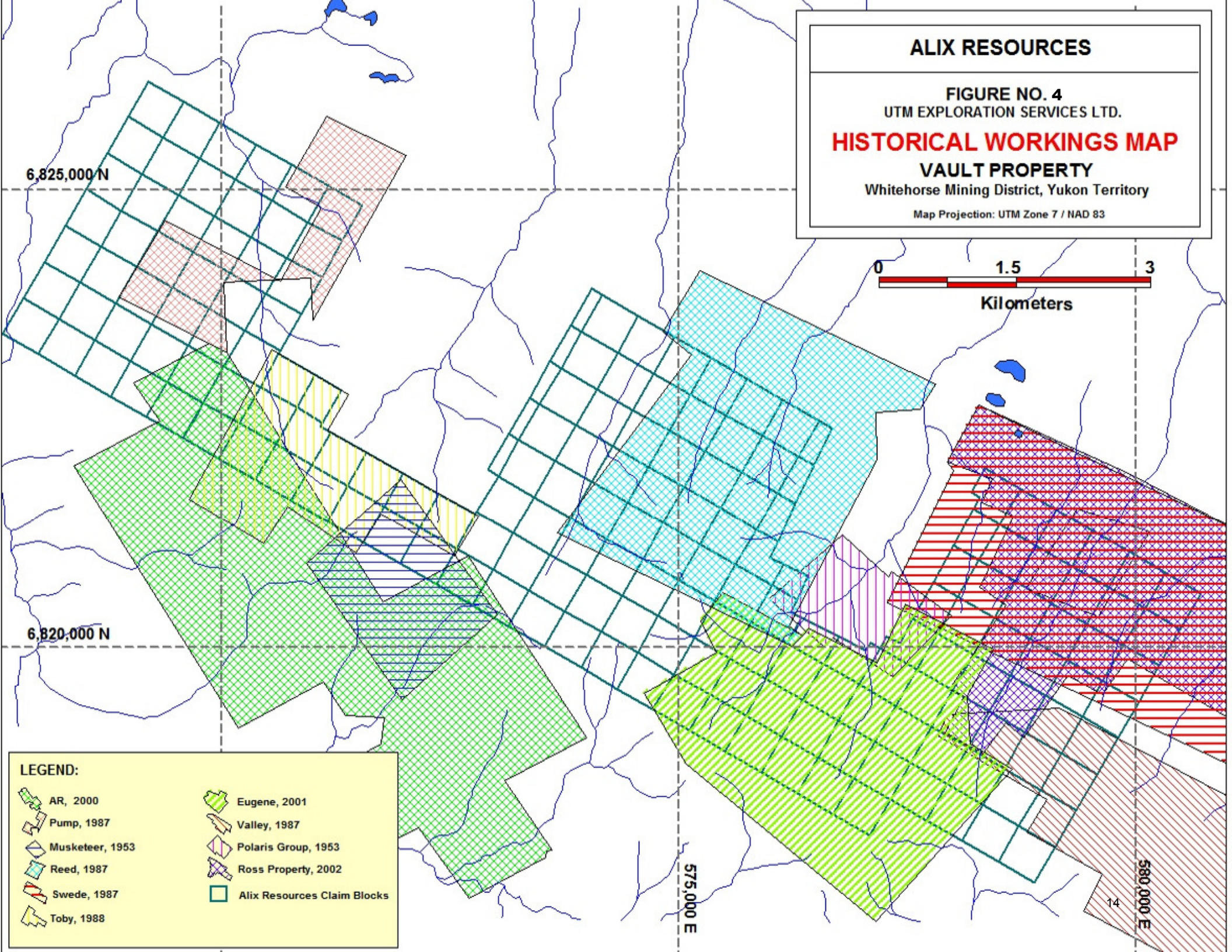
- N. Zikos staked the Greg claims in 1987 and on the same year, prospecting and reconnaissance sampling work was undertaken. However, all samples collected during the field assessment were from outside the current Vault property boundary.

- Pak-Man Resources Inc. and Rockridge Mining Corp conducted exploration work on the Arch property in 1987. The work covered the Marny, Mus, amp and Eugene claims although only the Eugene claims are within the current Vault property boundaries. Geochemical soil and rock sampling was undertaken. Anomalous Au values in soil of up to 10,000 ppb were picked up along a 75m. zone underlain by silica-carbonate altered pyroclastics (Eaton, 1988). Rock samples were collected during the follow-up survey which was conducted in 1988. Seven (7) of the more significant samples taken along the same altered zone had a grade range of 30 to 420 ppb. The most interesting sample collected during the same period assayed 5,000 ppb. Aside from Au, only As turned out anomalous in the rock chip samples with a grade range of 30 to 479 ppm.

- Northern Platinum Ltd. completed a mapping, geochemical soil and rock sampling and, geophysical survey program in the Arch property in 1997. Access roads were also constructed during the period. However, all the samples collected during the evaluation were outside the current Vault properry boundaries.

- Auterra Ventures Inc. proceeded with a brief sampling, road rehabilitation, blast trenching and additional staking program on the AR claims in the year 2000. All the work which was completed was also outside the current Vault property boundary.

- R. McIntosh and F. Ellis, two independent prospectors, conducted data compilation and research on the Ross property in 2002. Eventually, they conducted prospecting, geochemical sampling and mapping work in the property. Only one area, the Ellis/Glacier Creek turned out interesting where an anomalous 6 ppb Au rock sample was collected.


ALIX RESOURCES
FIGURE NO. 4
UTM EXPLORATION SERVICES LTD.
HISTORICAL WORKINGS MAP
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
0
1.5
3
Kilometers
6,825,000 N
6,820,000 N
575,000 E
580,000 E
14
LEGEND:
AR, 2000
Pump, 1987
Musketeer, 1953
Reed, 1987
Swede, 1987
Toby, 1988
Eugene, 2001
Valley, 1987
Polaris Group, 1953
Ross Property, 2002
Alix Resources Claim Blocks

5. Geological Setting

5.1 Regional Setting

The Vault property lies within the northeastern sections of the Wrangellia Terrane, one of the major accreted blocks of the Canadian Cordillera (Figure 4). This terrane is believed to be at least 2,500 km. in length as it extends from British Columbia on the south to Alaska on its northern-most end. Wrangellia is characterized by a thick sequence of Late Paleozoic to Early Mesozoic volcano-sedimentary rock assemblage although the distinctive rock unit that defines the terrane is the extensive Triassic-aged flood basalt. Tectonically, the Vault property is bounded by two sub-parallel right lateral strike-slip faults, the Duke River Fault on the southwest and the Denali Fault on the Northeast (Figure 4).

From oldest to youngest, the regional lithologic framework consists of the following units:

Skolai Group - This lithologic assemblage of Permian age is a thick sequence of slightly metamorphosed volcanics and sedimentary rock units. It is believed to be at least 2,500m. thick and is divided into the volcanic dominated Station Creek Formation and the conformably overlying, largely sedimentary Hasen Creek Formation (Carne, 2003).

The *Station Creek Formation* is the older member of the Skolai Assemblage and is regarded to be about 1000 m thick in the Kluane Ranges area. Basaltic to andesitic volcanic flows characterize the lower portions of the volcanic pile and these are overlain by a sequence of fine- to medium-grained tuff units. Associated with this volcanic assemblage, are localized exposures of agglomerate and volcanic breccias with minor patches of argillite and limestone beds. This formation extends into a gradational contact with the younger Hasen Creek Formation and the upper zones are normally intercalations of lava flow and volcaniclastic units. Sedimentary and volcanic textures suggest a restricted marine basin as the environment of deposition for the Station Creek Formation (Carne, 2003).

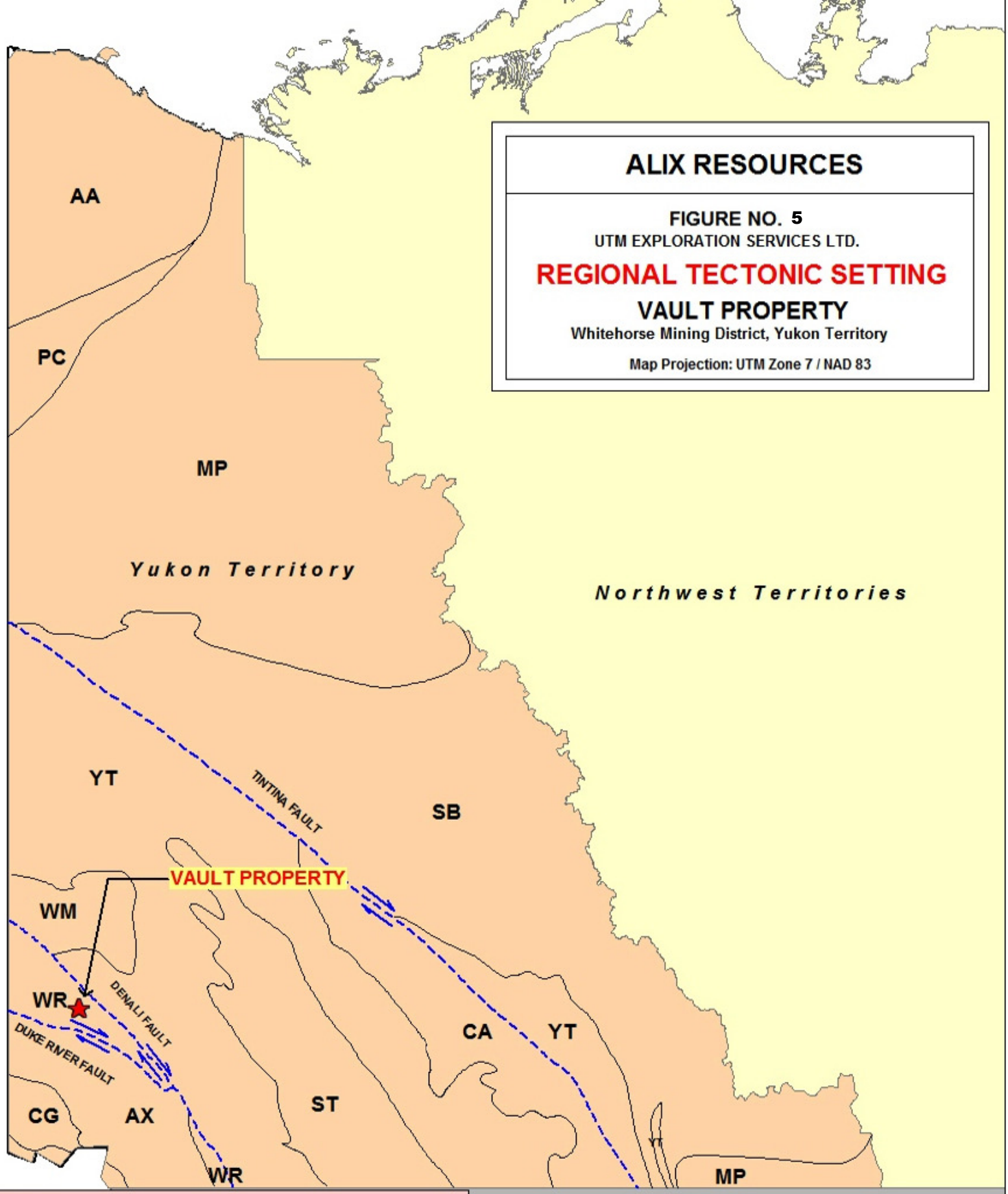
The younger *Hasen Creek Formation* consists of a clastic sequence of fine-grained gray to black phyllites and slates, thin bedded cherts and/or cherty argillites and siltstones which gradationally extend into beds of shaly limestone and generally more massive bioclastic limestone and/or calcarenite units. Localized units of coarser grained conglomerates and sandstones occur as discontinuous beds while minor and thin basaltic flows, volcanic breccias and tuff occur as distinct but irregular patches.

Nikolai Group – This assemblage consists of a thick pile of basalt flows which is associated with minor intercalations of bioclastic limestone. This Middle to Late Triassic rock succession which is at least 1,000 meters thick is believed to be

unconformably overlying the clastic rock units of the Hansen Formation of the Skolai Group. The typical basalt flows occur as fine-grained and diabasic, porphyritic and/or vesicular and very fine grained amygdaloidal units. The textural features indicate a subaqueous to sub-aerial environment of deposition for the entire layer of basalt flows.

Kluane Mafic-Ultramafic Suite – This is part of the 900 km. Upper Triassic mafic-ultramafic complexes which occur along the eastern margin of Wrangellia Terrane and which run from northern British Columbia to east central Alaska (Hulbert, 2001). These sill-like intrusive centres probably acted as subvolcanic magma chambers that fed the thick, overlying oceanic plateau basalts of the Nikolai assemblage (Hulbert and Carne, 1996). It is perceived that the intrusions could vary in thickness from <10 m to 600 m and may extend to strike lengths of up to 20 km. In the Yukon, it has been observed that mafic sills and dikes normally occur throughout the entire Hasen Creek Formation. The ultramafic units on the other hand are generally intruded near the contacts between rock units of the Hasen Creek and Station Creek Formations.

The ultramafic complexes are associated with anomalous magmatic sulfide concentrations and are hosts to some of the region's known poly-metallic sulfide deposits. Throughout history, the rock units' potential to host economic deposits of Ni-Cu with the associated PGE+Au has been continually explored. Field observations indicate that some gabbro units crosscut the more mafic rocks and some units also locally occur in wall rocks peripheral to the sills. This evidently imply that at least some of the sulphide-rich gabbro phases are younger than the associated mafic-ultramafic complexes and they may well be late stage sulphide-rich segregations that were expulsed separately from a parent magma at depth (Carne, 2003).


ALIX RESOURCES
FIGURE NO. 5
UTM EXPLORATION SERVICES LTD.
REGIONAL TECTONIC SETTING
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
AA
PC
MP
Yukon Territory
Northwest Territories
YT
TINTINA FAULT
SB
VAULT PROPERTY
WM
WR
DENALI FAULT
DUKE RIVER FAULT
CA
YT
CG
AX
ST
WR
YT
MP
British Columbia
LEGEND:
MP McKenzie Platform
SB Selwyn Basin
AA Arctic Alaska
CA Cassiar
PC Porcupine
YT Yukon-Tanana / Slide Mountain
ACCRETED TERRANES:
ST Stikinia / Cache Creek
AX Alexander
WR Wrangelia
CG Chugach
WM Windy McKinley

5.2 Local Geology

The Vault property is generally underlain by an assemblage of metamorphic rocks consisting mainly of meta-andesites and meta-basaltic andesites with associated phyllites and minor schists and slates. This rock suite is part of the Permian-aged Skolai Group and is deemed to form the basement rock units in the area. The entire assemblage appears as NW-trending bodies of intercalated meta-volcanics and meta-sedimentary rock units from the SE to the NW sections of the claims group (Figure 5).

The meta-andesite units (Station Creek Formation) are generally fine-grained but also occur as porphyritic in some minor sections. These are normally altered to chlorite with subordinate quartz and/or calcite that occur mainly as thin fracture fills. Basaltic and darker gray colored facies are also common and on outcrops, these appear as more massive and less altered.

The phyllites, schists and slates (Hasen Creek Formation) are moderate-highly foliated and are mainly composed of quartz and chlorite with subordinate sericite and/or muscovite. Two (2) main types of phyllites had been observed, a green largely chlorite with minor quartz altered unit (Photo 11) and one which is light brown colored and largely altered to silica, minor sericite and normally stained with limonite. The silica-altered phyllites which also contain varying amounts of limonite normally grade into massive and highly intact quartzites (Photo 1). In numerous highly foliated phyllite outcrops, milky white or bull quartz occur as distinct pods or lenses (<1 cm to about 100 cm in widest sections). Likewise quartz sometimes occur as bands associated with epidote and chlorite (Photo 2). On outcrops, the slates are relatively thin layers (< 5m) of dark gray, very fine-grained, clayey and platy units (Photo 3) while the schists which were rarely encountered, are light green to cream and composed principally of quartz and muscovite.

Overlying the phyllites and the meta-andesites are localized and discontinuous patches of relatively younger limestone beds, another member of the Hasen Creek Formation. These rock units normally form distinct and rugged caps covering the ridge tops and are in direct contact with the meta-rocks (Photo 4). The rocks are buff-colored, clayey to silty, variably bedded and highly fractured or fragmented in some sections.

Towards the higher elevations and along the southeastern sections of the property, the widest exposures of younger andesitic to basaltic lava and pyroclastic flows of the Triassic-aged Nikolai assemblage had been mapped (Figure 4). These units which also overly the basement meta-rocks are distinctly vesicular to amygdaloidal and gray to reddish brown due to hematite content. Some sections are also noticeablly lined with quartz and epidote veinlets/fracture fills with associated minor calcite. Several exposures are also agglomeratic to brecciated and contains multi-lithic pebble to boulder size clasts (Photo 5). This unit largely occurs along the

high ridges with steep and talus-covered slopes along the southeastern sections of the claims.

Several gabbro dikes (Photo 12) had been traced out on the NW portions of the claims (Figure 4). The dikes which could extend to about 100 m. in thickness, at the most, are generally medium to coarse-grained with distinct mafic minerals being altered to chlorite in varying intensities. Some exposures are within or close to the thrust zones and appear as highly chloritized, locally serpentinized and distinctly striated, sheared and with a greenish sheen.

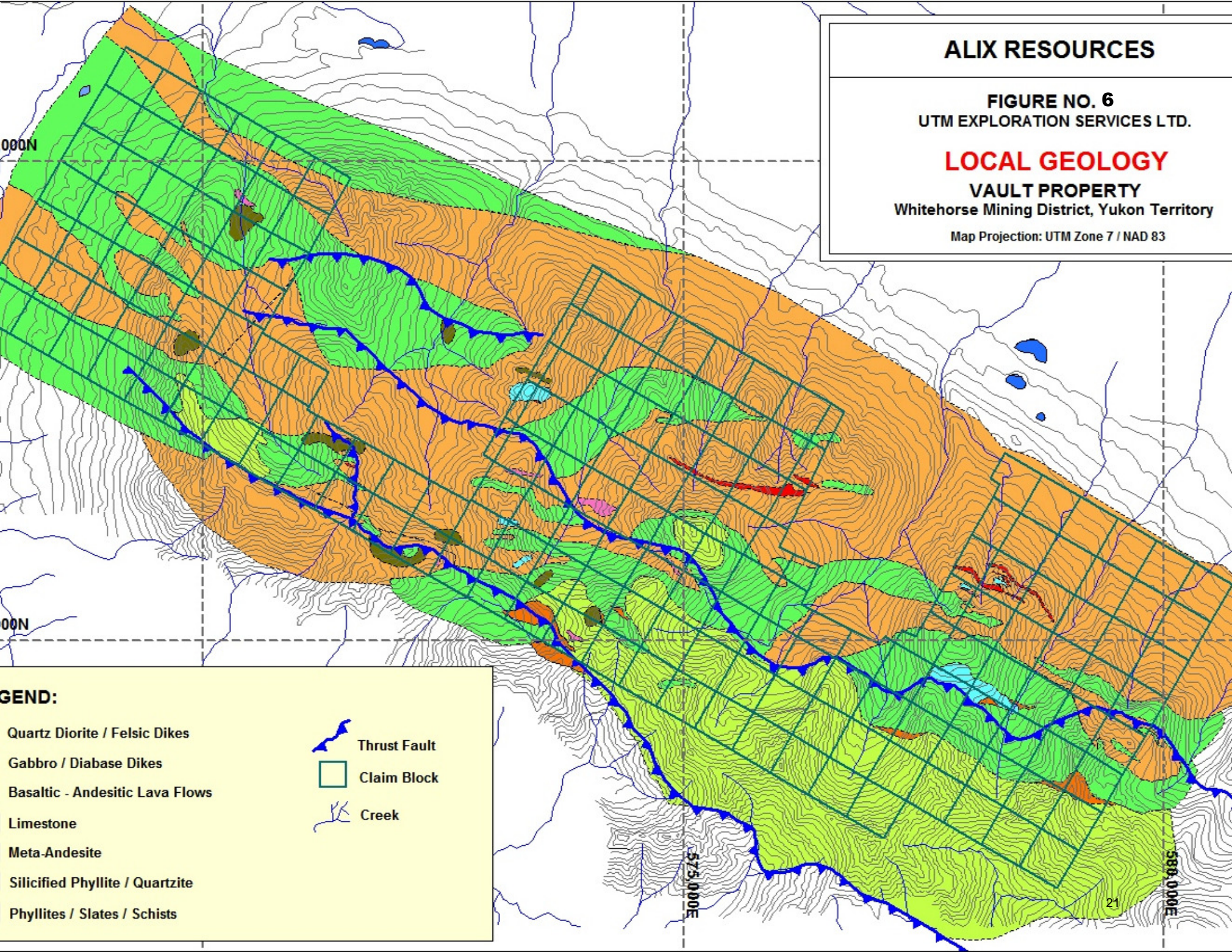
The youngest rock units in the property are narrow dikes and sills (normally < 10m in thickness) of quartz diorites and feldspar porphyries which intrude the meta-rocks. On outcrops, the feldspar porphyries normally occur as sills that follow the distinct foliation attitude of the phyllites while the quartz diorites crop out as dikes which cut across foliation. The quartz diorite is medium to coarse grained with distinct quartz, feldspar and hornblemde grains. The feldspar porphyry on the other hand has fine-grained and gray matrix with very distinct hornblende and feldspar lath-shaped phenocryts. All lithologic contacts with the wall rocks are sharp (Photo 6) and both intrusives and host rocks are devoid of any significant alteration and mineralization.

Although some peridotite boulder-size floats had been observed along one creek on the NW end of the claims block (Figure 12), no outcrops of the same unit was mapped in the area during the recent investigation. It is perceived that the most probable source area of the floats is within the immediate vicinity of the nearest thrust fault (Figure 5), one of the faults that is associated with some of the gabbro bodies that were delineated within the claim boundaries. It is still possible for this area to host a PGE-rich Cu-Ni type of mineralization similar to Wellgreen. However, it is imperative to trace out the source outcrop of the ultramafic floats, relate this to the already delineated gabbro bodies and further assess the mineralization potential.

Two (2) major NW-trending thrust faults cut the Vault property (Figure 5). The structures which dip moderate to steeply to the SW are characterized by up to about a 100 meters of highly shattered and sheared zones along its NW sections (Photo 7). Towards the SE portions, field manifestations are obscured by thick rock talus covers and possibly, the fault traces could be placed along topographic breaks like saddles and gullies and, on lithologic contacts. Several smaller thrust splays which generally follow the same structural attitudes had also been drawn out (Figure 5).

The foliation of the meta-rocks generally follows the NW-SW strike and dip attitude of the thrust structures and thus, evidently confirming the general direction of movements related to the regional tectonics and/or the formation of the accreted terranes. Several localized foliation attitude reversals had also been noted indicating several smaller-scale or tight fold structures developed in the metamorphosed

clastics. Fold plunges to the NW/SE had also been observed along several portions in the property although distinct traces could not be set due to the scarcity of rock exposures especially towards the SE sections of the meta-clastics.


ALIX RESOURCES
FIGURE NO. 6
UTM EXPLORATION SERVICES LTD.
LOCAL GEOLOGY
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
000N
00N
GEND:
Quartz Diorite / Felsic Dikes
Gabbro / Diabase Dikes
Basaltic - Andesitic Lava Flows
Limestone
Meta-Andesite
Silicified Phyllite / Quartzite
Phyllites / Slates / Schists
Thrust Fault
Claim Block
Creek
575,000E
580,000E
21

5.3 Mineralization and Alteration

Please refer to Figures 7 to 22 for the rock outcrop and float geochemistry anomaly maps.

Two (2) distinct mineralization types had been observed in the property, vein and stratigraphic/massive sulfide type. The vein mineralization normally consists of just quartz and pyrite and rarely contains minor quantities of chalcopyrite. On outcrops, minor stains of malachite had also been observed. Aside from pyrite which is up to 3 % in volume, no other fresh sulfide had been noted in the vein materials. Associated with this mineralization are highly silicified phyllites which are normally lined with quartz veinlets, bands or small lenses. The mineralized material contains up to 5% pyrite disseminations and/or heavily stained with limonite normally along foliation and fracture planes. This first type of material is associated with more significant gold and silver mineralization.

The stratigraphic or massive sulfide type of mineralization on the other hand consists of pyrite (10 to 80%) and quartz (5 to 50%) with associated chalcopyrite, chalcocite and ubiquitous coatings of malachite and minor azurite. Only one outcrop of this material had been encountered and it occurs more like a localized and lenticular body hosted by the meta-andesite. Within a radius of 500 meters from this outcrop however, several rock floats (</= 30 cm. diameter) with the same mineralization characteristics and combined with largely un-mineralized talus cover were also noted. Associated with this type of mineralization are highly silicified meta-andesites coated in parts with thin films of malachite mainly along fracture planes. Pyrite as dissemination is common and is up to 5% in volume content. This type of mineralization is associated with more significant copper mineralization.

The most interesting outcrop sampled is a massive sulfide pod/lens hosted by meta-andesite. This mineralized zone is just about 10 cm. thick with only about 2 m. of exposed strike length (Photos 9 and 10). Pyrite content is about 10% occurring as disseminations and veinlets but some massive sections contain up to 80%. Rare chalcopyrite specks (<1%) associated with massive chalcocite and ubiquitous but thin coatings of malachite and azurite had also been noted. This occurrence which lies on the NW section of the block (Figure 6 and Figure 8) has sharp contacts with largely chloritized and un-mineralized meta-andesite. A sample taken from this exposure yielded the following assays:

Sample Code	Pd ppm	Pt ppm	Au ppm	Ag ppm	Cu %	Pb ppm	Zn ppm
5214224	0.007	0.008	0.388	13.20	24.490	2.8	9.9

A rock float of this same type of material also collected from the same general vicinity of the property (SSE end) shows the following assay results:

Sample Code	Pd ppm	Pt ppm	Au ppm	Ag ppm	Cu %	Pb ppm	Zn ppm
5214238	0.012	-0.005	0.133	5.94	16.190	0.10	20.4

Five (5) other outcrops and floats of the type of mineralization characterized by zones of highly silicified meta-andesites with thin and localized malachite stains had been sampled (Figures 8 and 15). These weakly foliated zones are also lined with fine limonite and/or quartz veinlets which generally cross-cut the foliation planes. Malachite normally appears like thin smears on foliation and fracture planes. Aside from pyrite that normally occurs as specks and disseminations (up to 5%), no other fresh sulfides had been observed. The assay results of these samples are as follows:

Sample Code	Pd ppm	Pt ppm	Au ppm	Ag ppm	Cu %	Pb ppm	Zn ppm
5214184	0.009	0.005	0.084	5.07	2.360	2.5	54.5
5214312	0.005	0.005	0.086	3.09	0.671	4.7	37.3
5214237	0.013	0.009	0.007	2.36	0.883	0.7	44.6
5214255	0.014	0.008	0.014	1.37	0.219	3.9	121.0
5214223	0.048	0.011	0.020	0.26	1.940	0.3	85.8

The assays show elevated values for Cu and quite erratic and relatively subdued Au and Ag grades. Pb and Zn values are relatively anomalous but are quite low while Pd and Pt values are distinctly insignificant.

The vein type mineralization also includes localized layers, bands or lenses of pervasively silicified and limonitic phyllites (Photo 8) within bigger bodies of largely chloritized phyllites. These silicified sections that are also lined with milky white quartz veinlets/bands occur as discontinuous and centimeter-size lenses/bands but the largest body is as wide as 50 m. and could be traced out to about a kilometer in strike length. This body also strikes NW and dips SW as it follows the general attitude of foliation of the metamorphic rocks. Limonite occurs as thin coatings or stains mainly along the fractures and foliation planes. Fresh pyrite is mainly less than 1 % (but up to 5% in some sections) and occurring as coarse specks. No other sulfides had been observed in these rock units. These silicified and limonitic phyllites form the distinct reddish-brown colored outcrops along the ridges, making these zones highly recognizable from a distance. The quartz veins mapped are all less than 1 meter wide and are very limited in lateral extent. Samples of this type with significant assay values include the following:

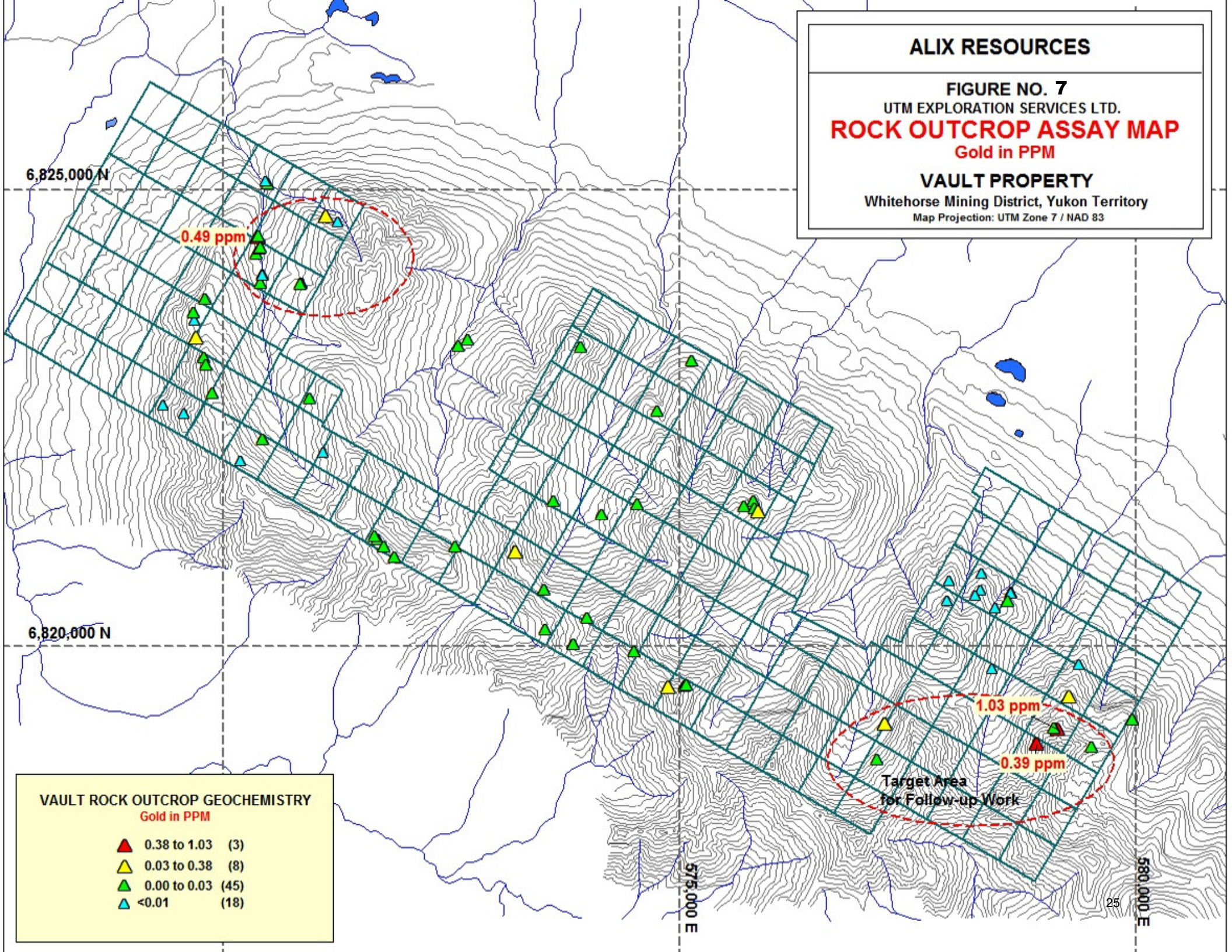
Sample Code	Pd ppm	Pt ppm	Au ppm	Ag ppm	Cu %	Pb ppm	Zn ppm
5214222	0.018	0.008	1.030	1.43	0.006	14.5	113.0
5214180	-0.001	-0.005	0.492	0.97	0.001	9.2	28.5
5214240	0.018	-0.005	0.426	0.59	0.002	32.5	48.2

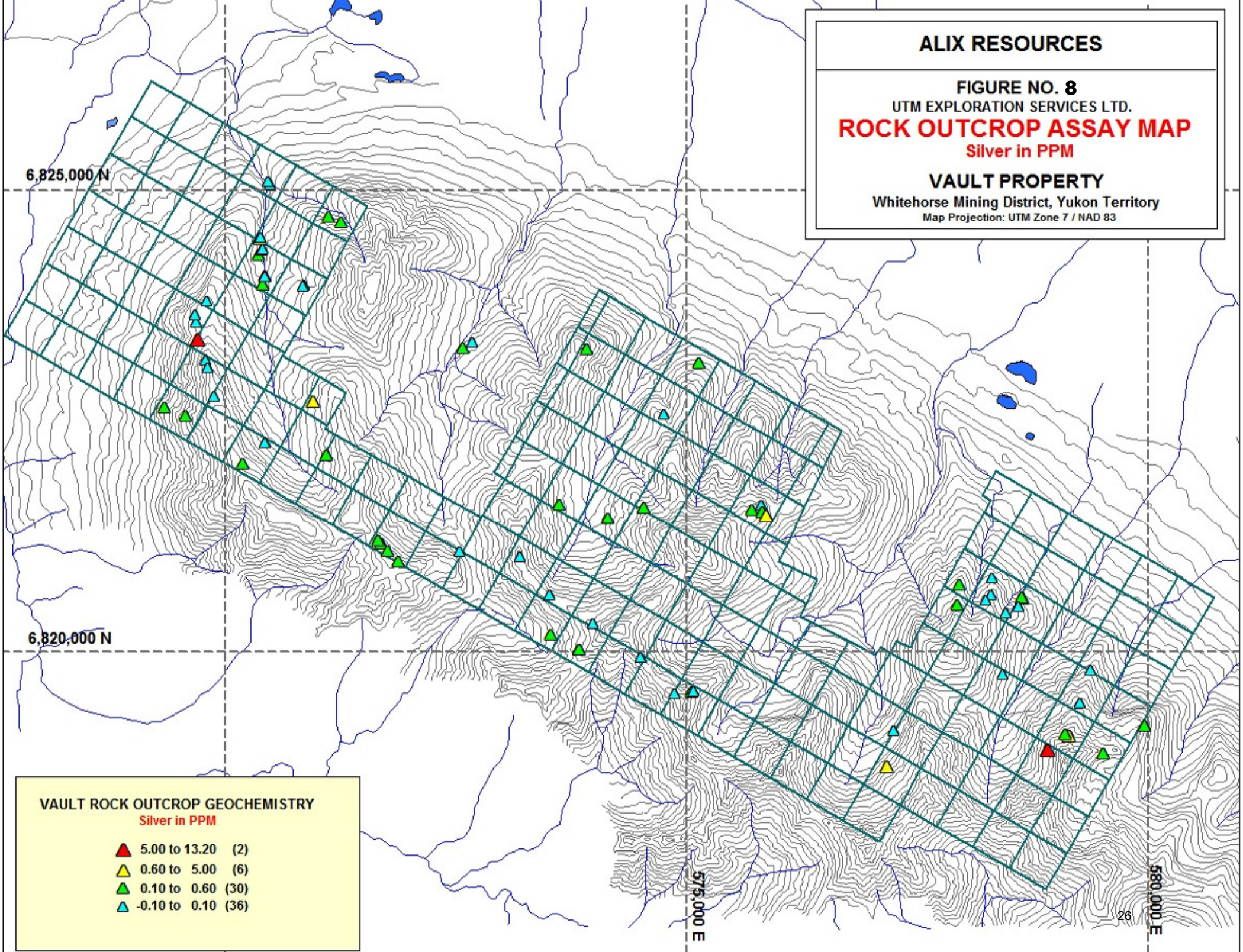
Like the massive sulfide type of mineralization described earlier, Pb, Zn, Pd and Pt contents in the silicified phyllites and vein materials are also largely subdued. While gold values are relatively elevated, Cu grades are quite insignificant.

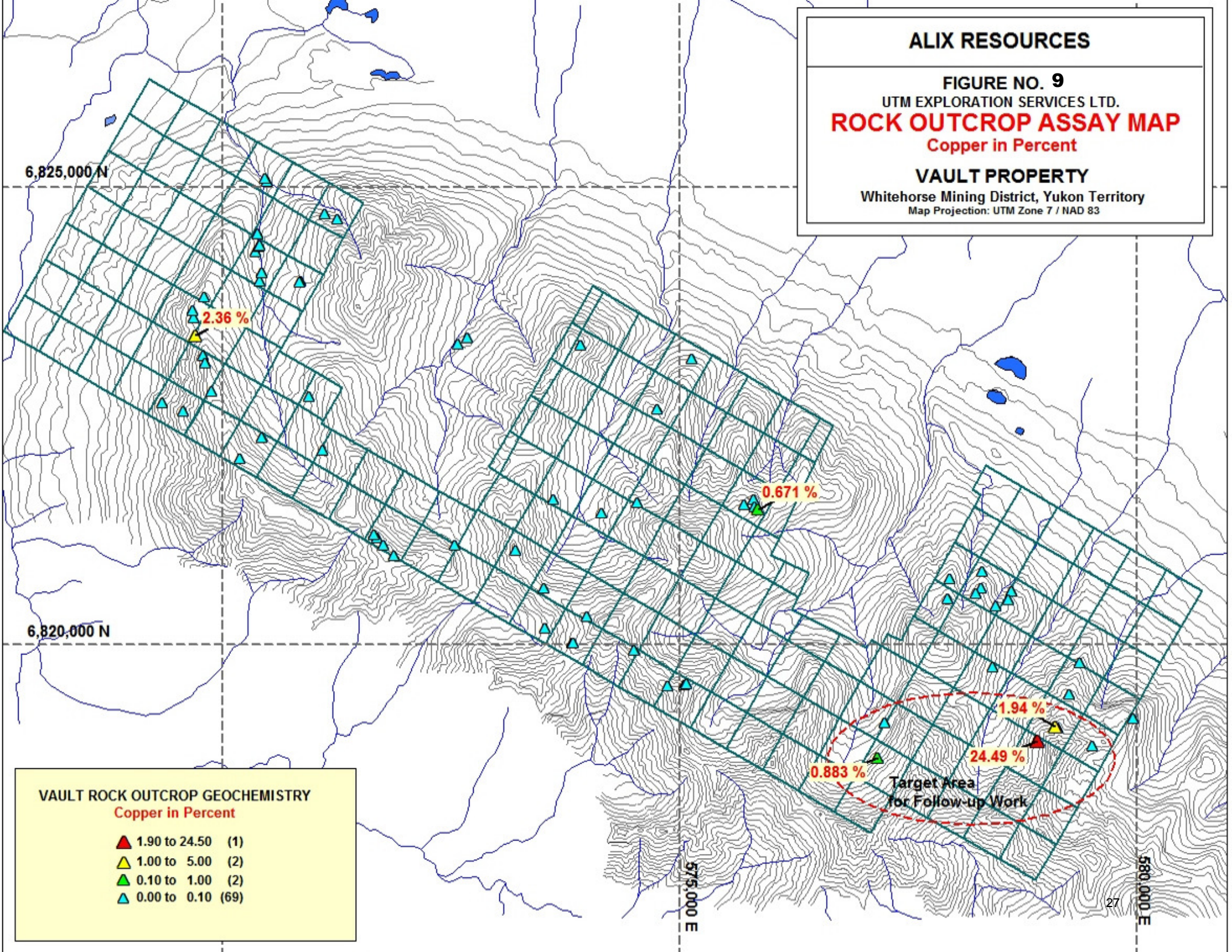
No ultramafic rock outcrops were encountered within the boundaries of the property during the recent investigation although boulder floats of peridotites were noted along a creek on the northwestern portion. A rock sample representing these peridotite floats yielded the highest values for Pt and Pd in the whole prospect area (Figures 18 and 19). The assay results for the sample are as follows:

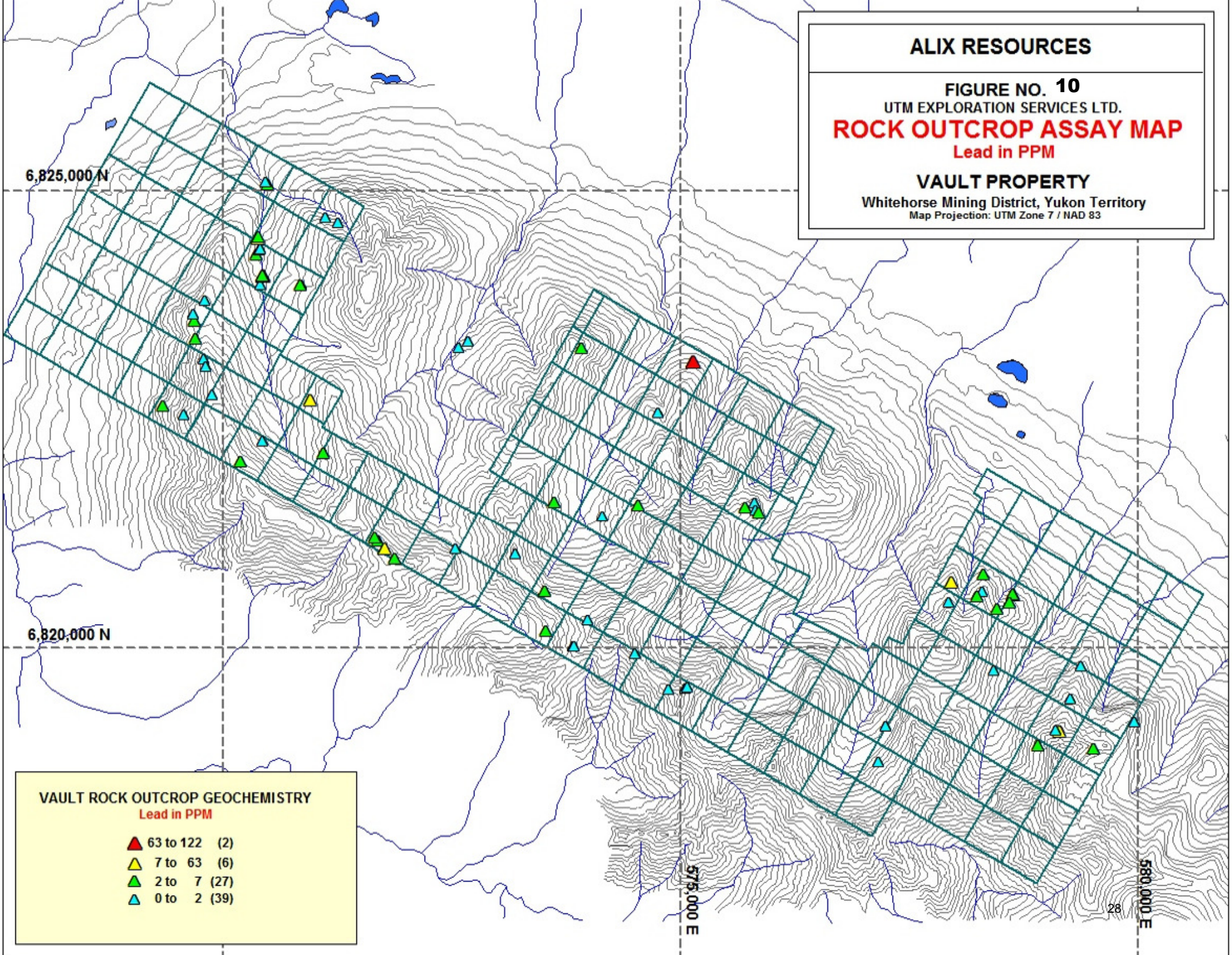
Sample Code	Pd ppm	Pt ppm	Cr ppm	Au ppm	Ag ppm	Cu %	Pb ppm	Zn ppm
5214183	0.093	0.042	33.80	0.010	0.24	0.034	1.80	29.70

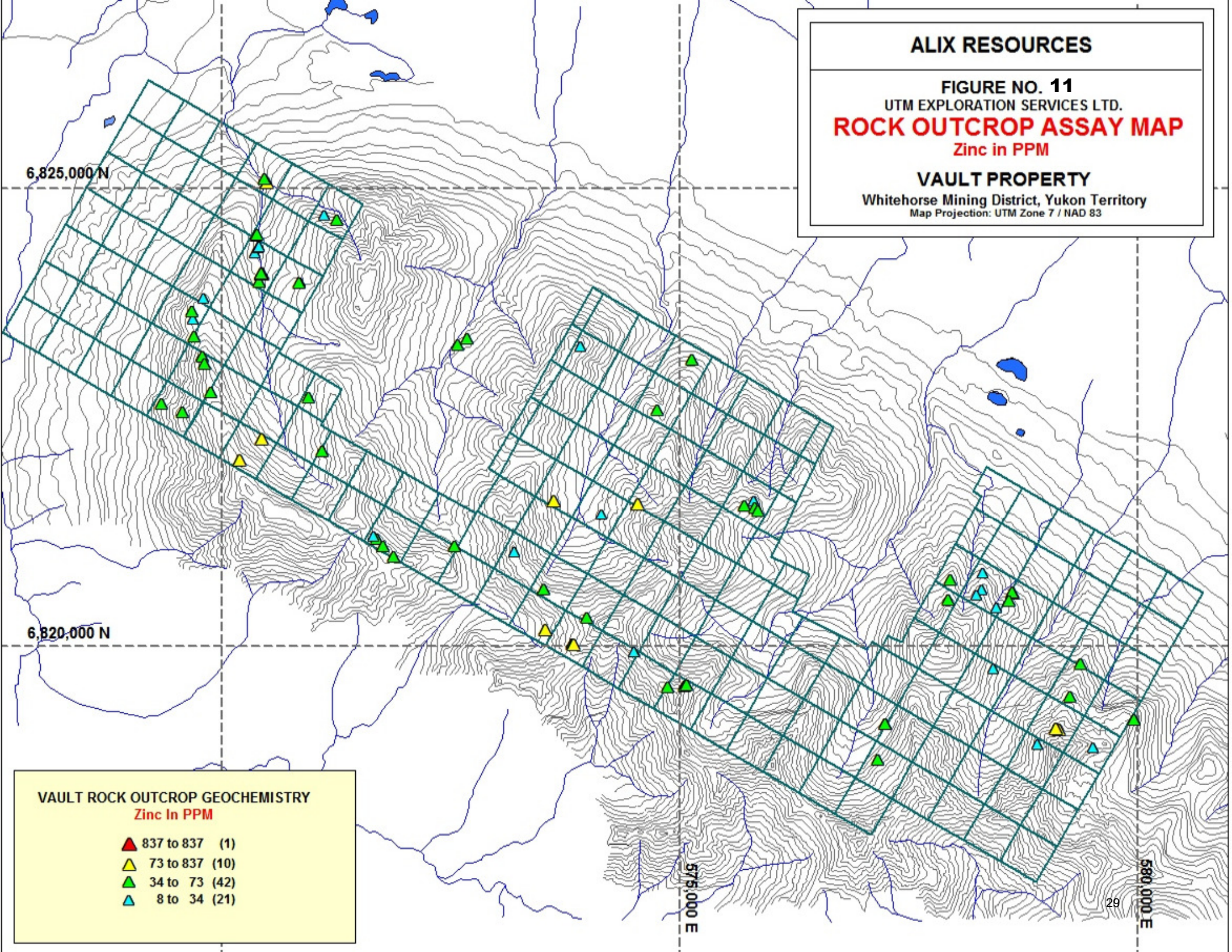
The exploration campaign had intended to define possible zones of mineralized mafic-ultramafic bodies similar to the Wellgreen Mine mineralization which is located just about 20 km. to the SW of the Vault claims group. Although no ultramafic rock outcrops had been mapped out during the last field investigation, the presence of distinct gabbro bodies as well as peridotite floats in NW Vault still indicate the possibility of finding a Wellgreen-type deposit in the area. Despite the fact that no significant precious, base metal and PGE assays had been picked up, the ultramafic-mafic rock outcrop and floats which were collected in this NW area distinctly show anomalous values for Pt and Pd (Figures 11, 12, 18 and 19). As such, the mineralization potential of the area remains valid.

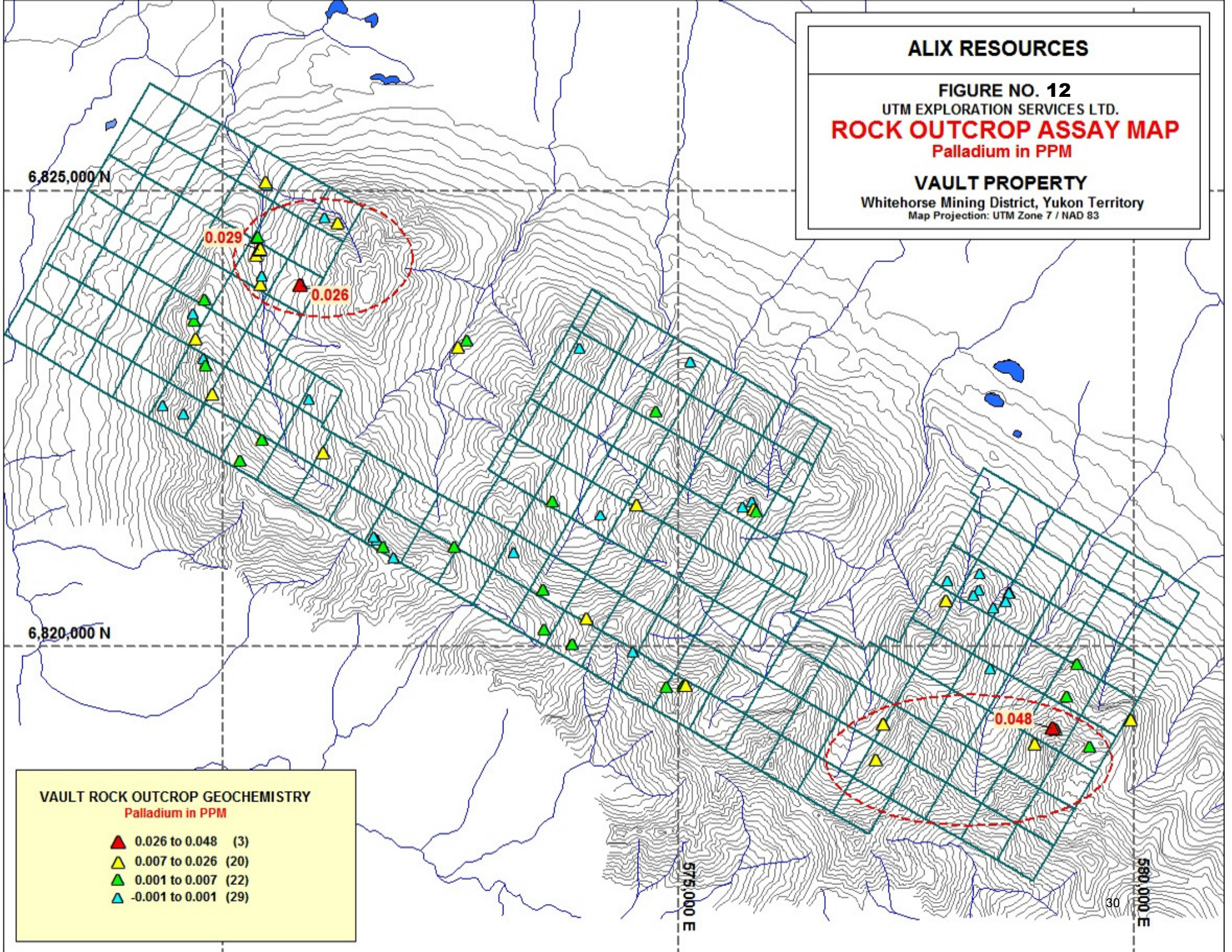

ALIX RESOURCES
FIGURE NO. 7
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Gold in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
0.49 ppm
1.03 ppm
0.39 ppm
Target Area
for Follow-up Work
VAULT ROCK OUTCROP GEOCHEMISTRY
Gold in PPM
0.38 to 1.03 (3)
0.03 to 0.38 (8)
0.00 to 0.03 (45)
<0.01 (18)

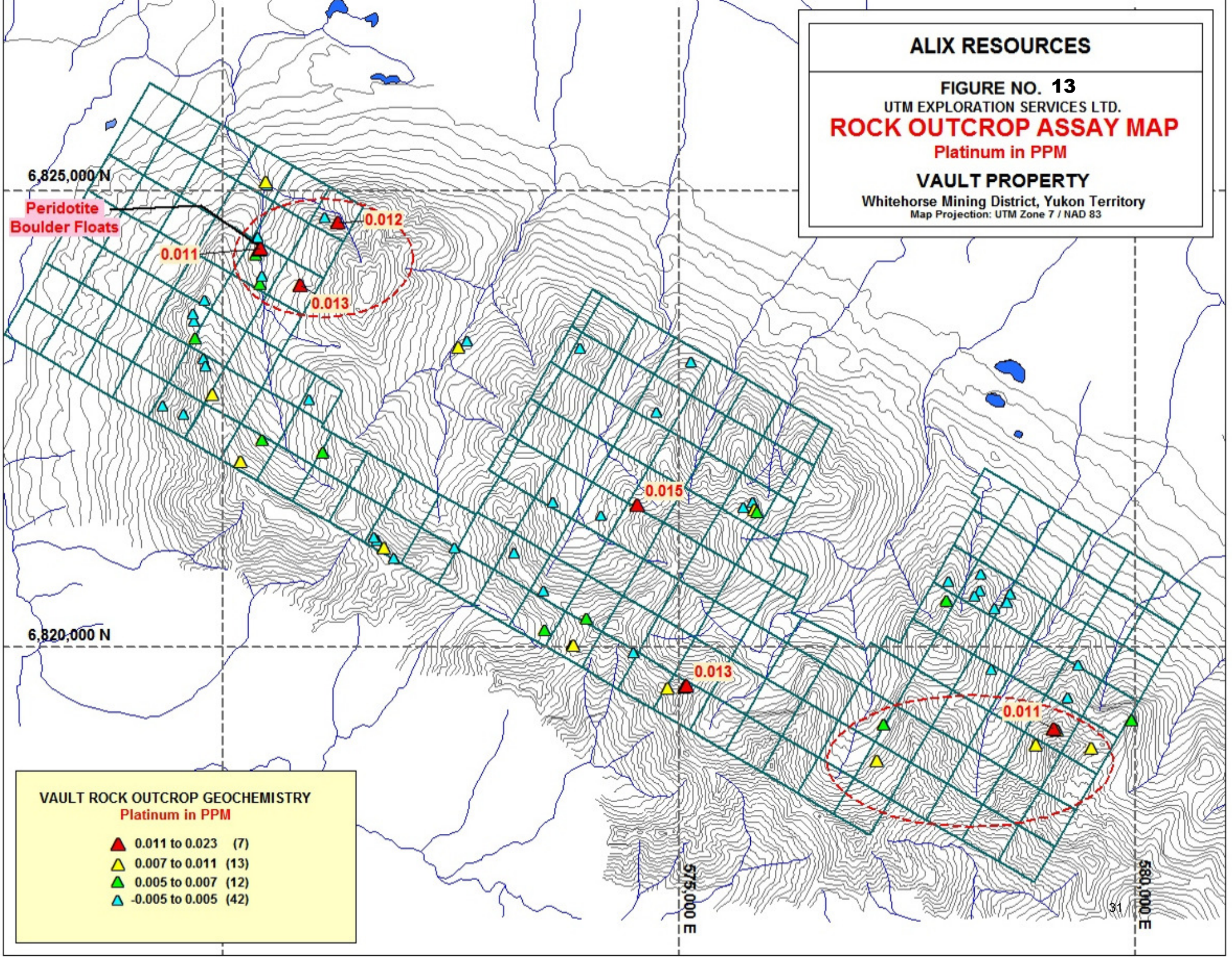

ALIX RESOURCES
FIGURE NO. 8
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Silver in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
VAULT ROCK OUTCROP GEOCHEMISTRY
Silver in PPM
5.00 to 13.20 (2)
0.60 to 5.00 (6)
0.10 to 0.60 (30)
-0.10 to 0.10 (36)

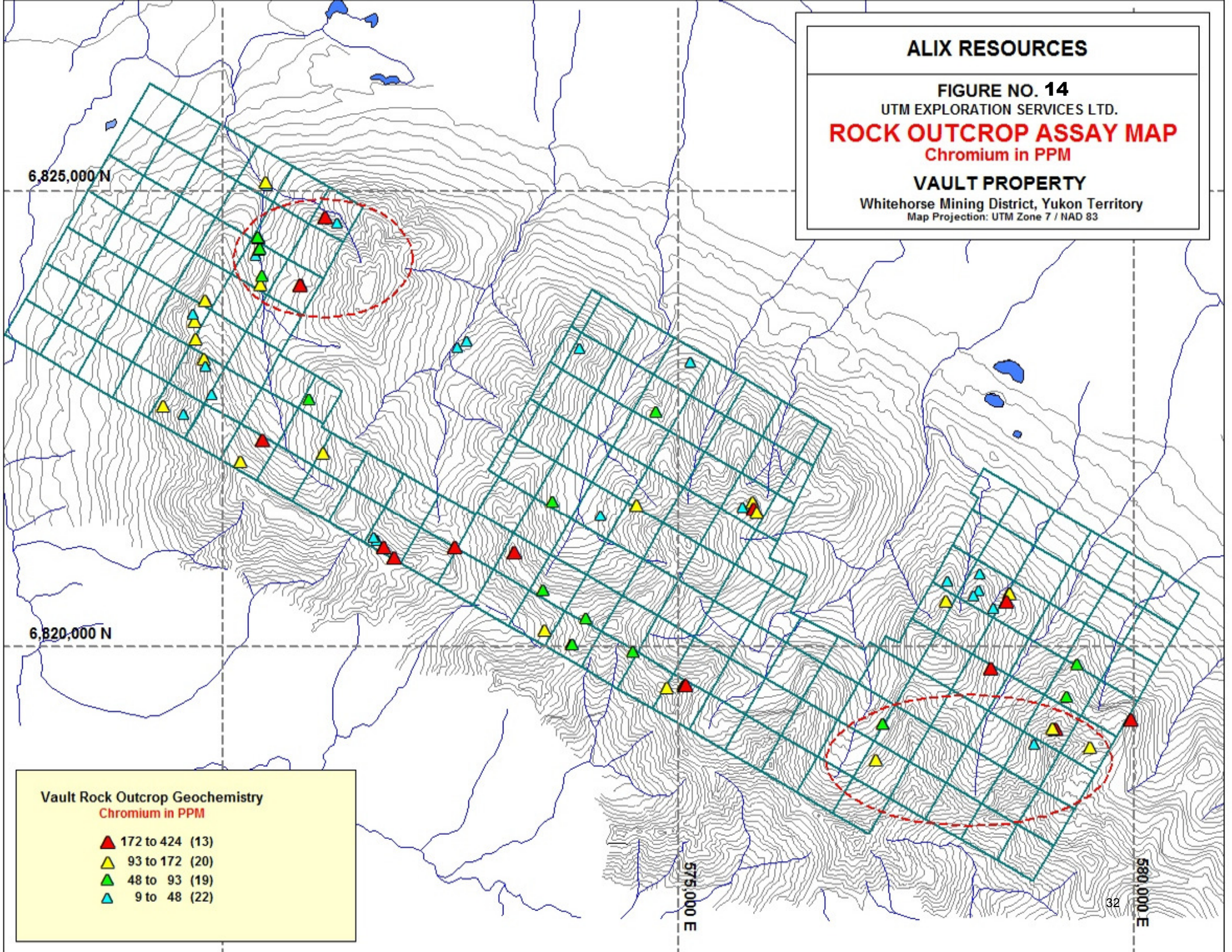

ALIX RESOURCES
FIGURE NO. 9
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Copper in Percent
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
2.36 %
0.671 %
1.94 %
24.49 %
0.883 %
Target Area
for Follow-up Work
VAULT ROCK OUTCROP GEOCHEMISTRY
Copper in Percent
1.90 to 24.50 (1)
1.00 to 5.00 (2)
0.10 to 1.00 (2)
0.00 to 0.10 (69)

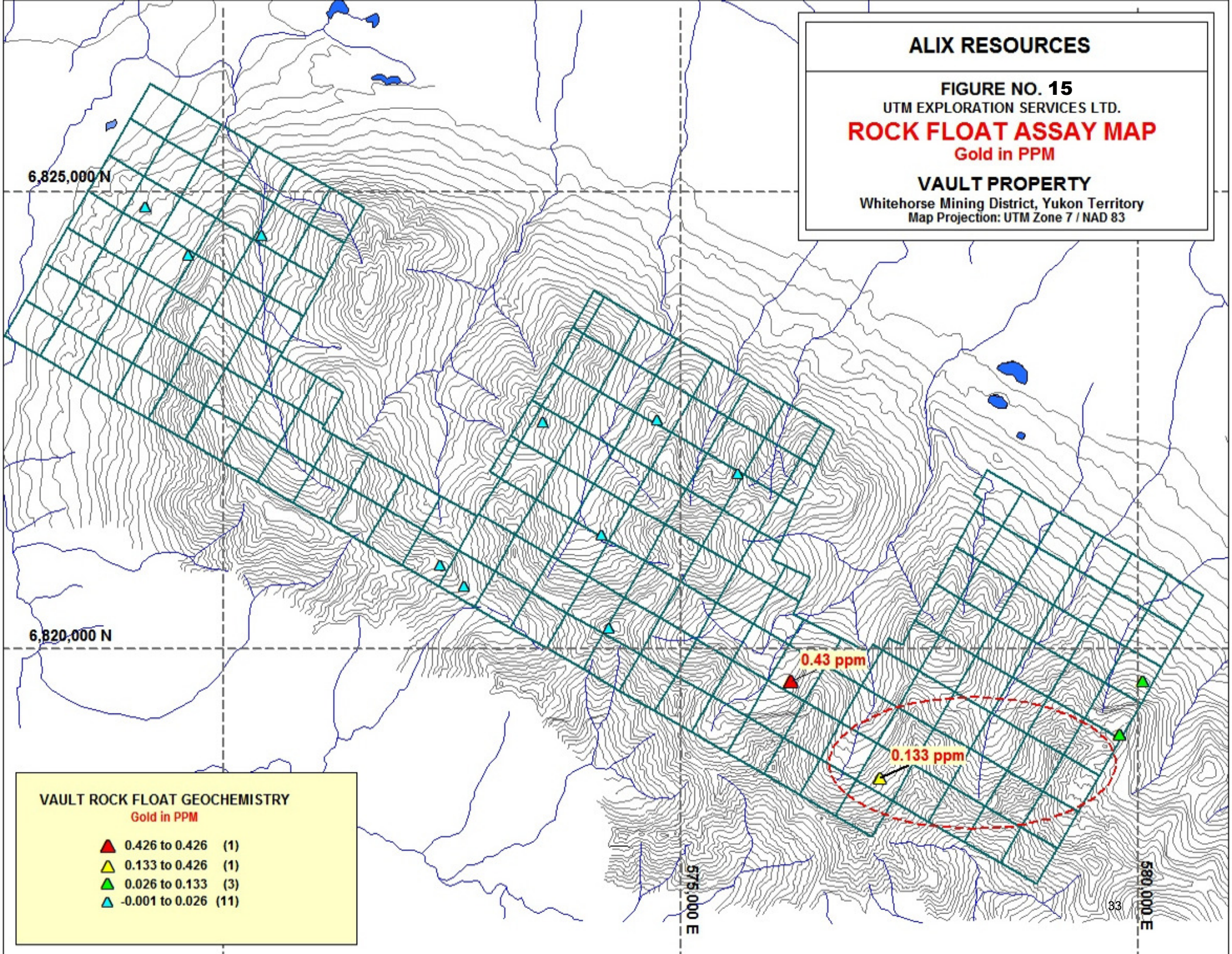

ALIX RESOURCES
FIGURE NO. 10
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Lead in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
VAULT ROCK OUTCROP GEOCHEMISTRY
Lead in PPM
63 to 122 (2)
7 to 63 (6)
2 to 7 (27)
0 to 2 (39)

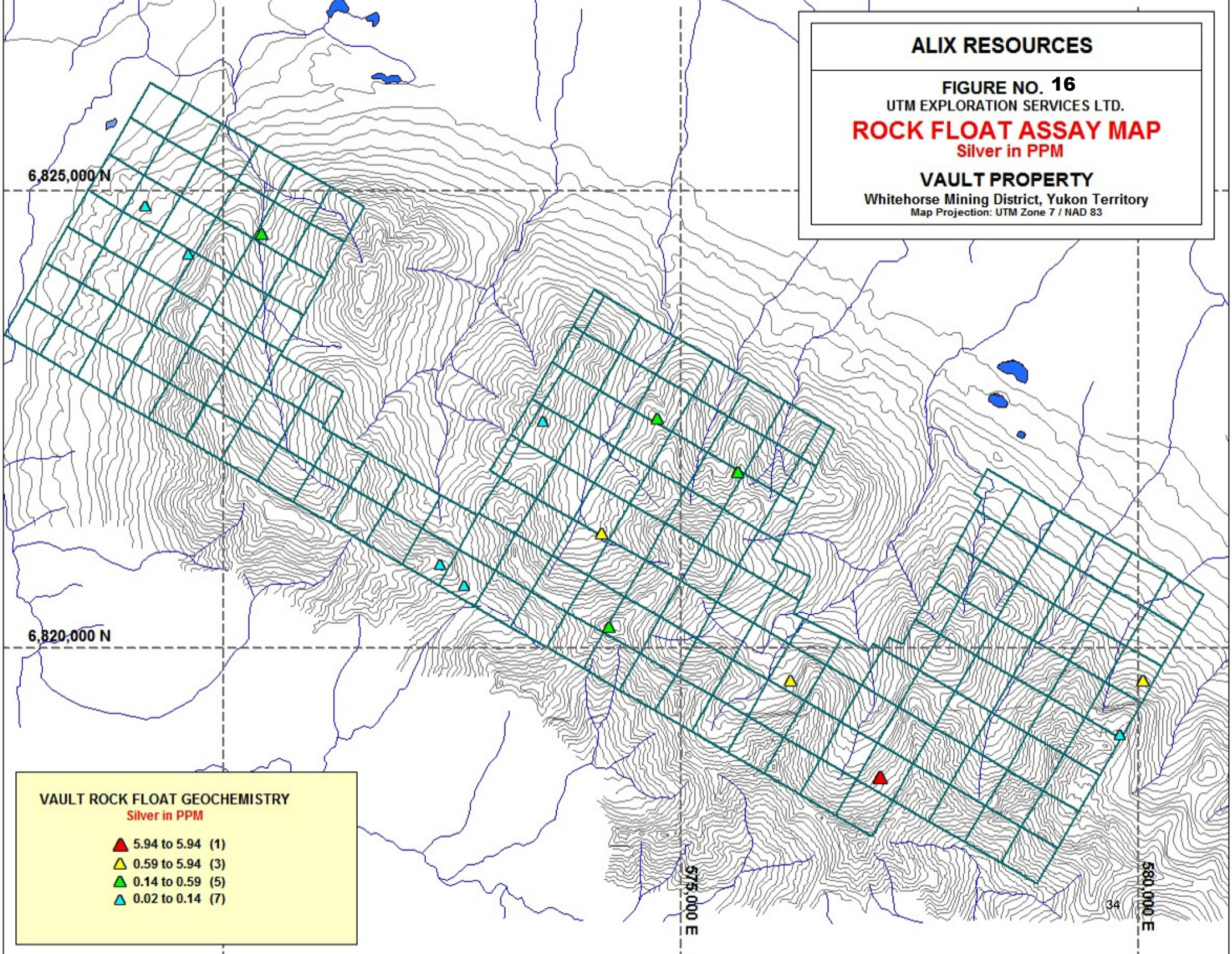

ALIX RESOURCES
FIGURE NO. 11
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Zinc in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
VAULT ROCK OUTCROP GEOCHEMISTRY
Zinc In PPM
837 to 837 (1)
73 to 837 (10)
34 to 73 (42)
8 to 34 (21)

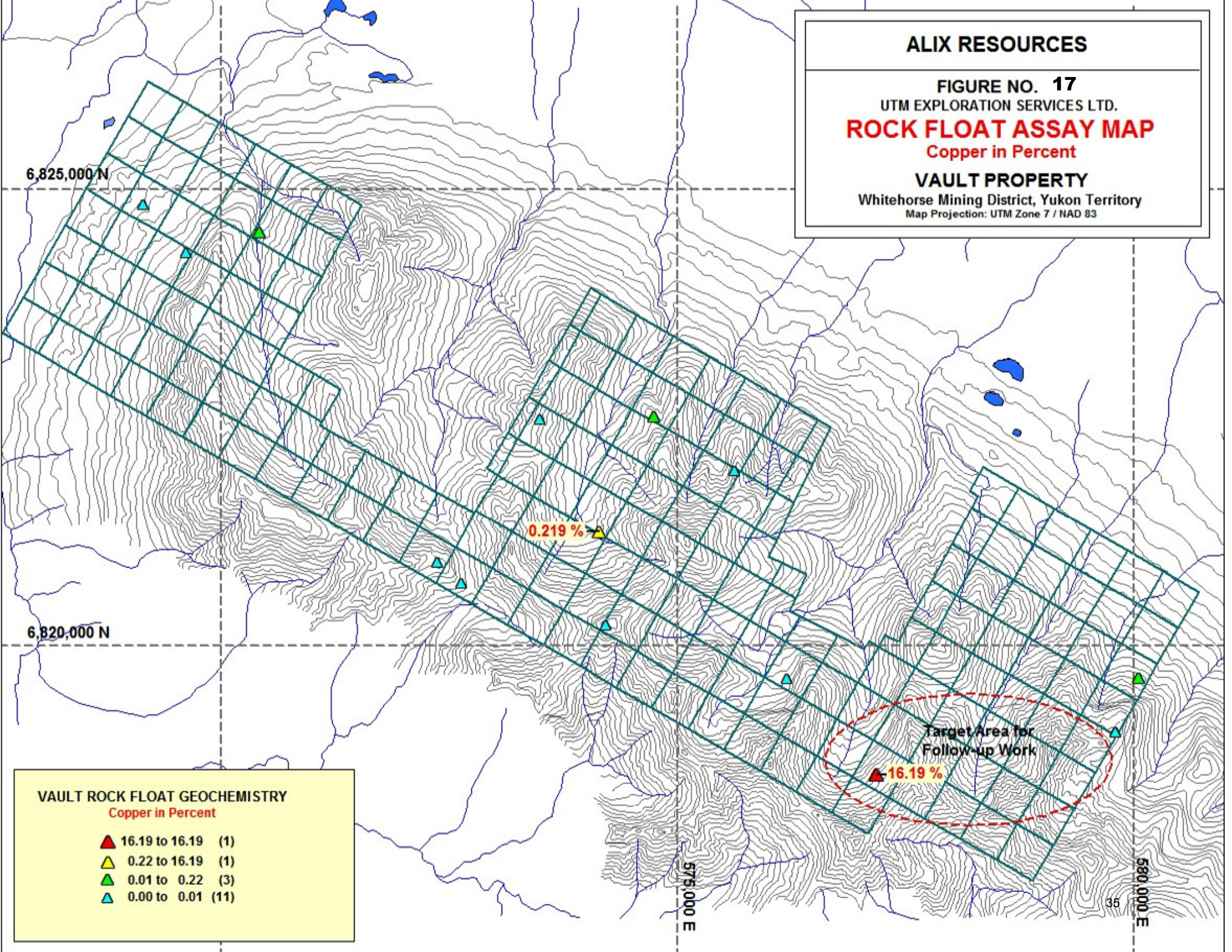

ALIX RESOURCES
FIGURE NO. 12
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Palladium in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
0.029
0.026
0.048
575,000 E
580,000 E
VAULT ROCK OUTCROP GEOCHEMISTRY
Palladium in PPM
0.026 to 0.048 (3)
0.007 to 0.026 (20)
0.001 to 0.007 (22)
-0.001 to 0.001 (29)

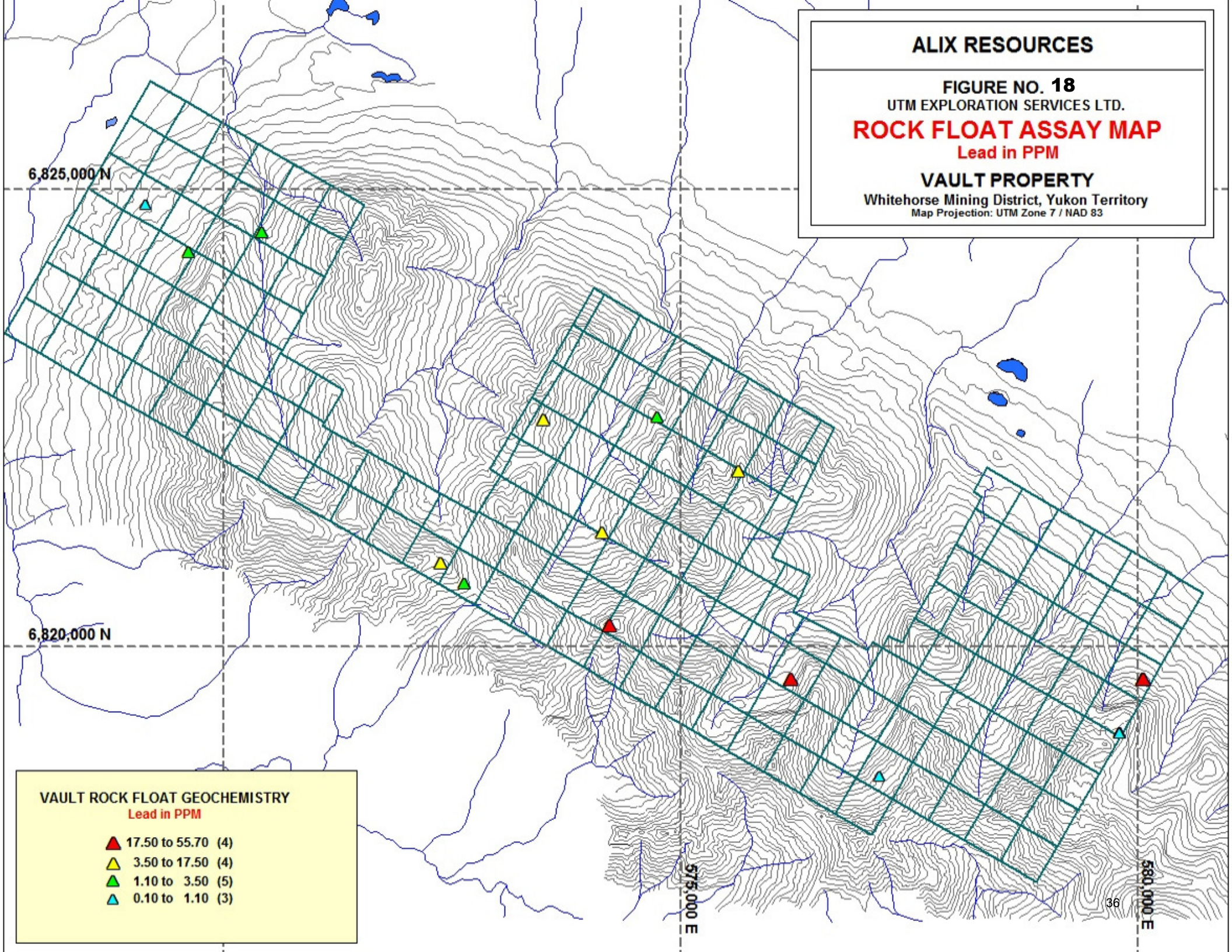

ALIX RESOURCES
FIGURE NO. 13
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Platinum in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
Peridotite Boulder Floats
0.012
0.011
0.013
0.015
0.013
0.011
575,000 E
580,000 E
VAULT ROCK OUTCROP GEOCHEMISTRY
Platinum in PPM
0.011 to 0.023 (7)
0.007 to 0.011 (13)
0.005 to 0.007 (12)
-0.005 to 0.005 (42)

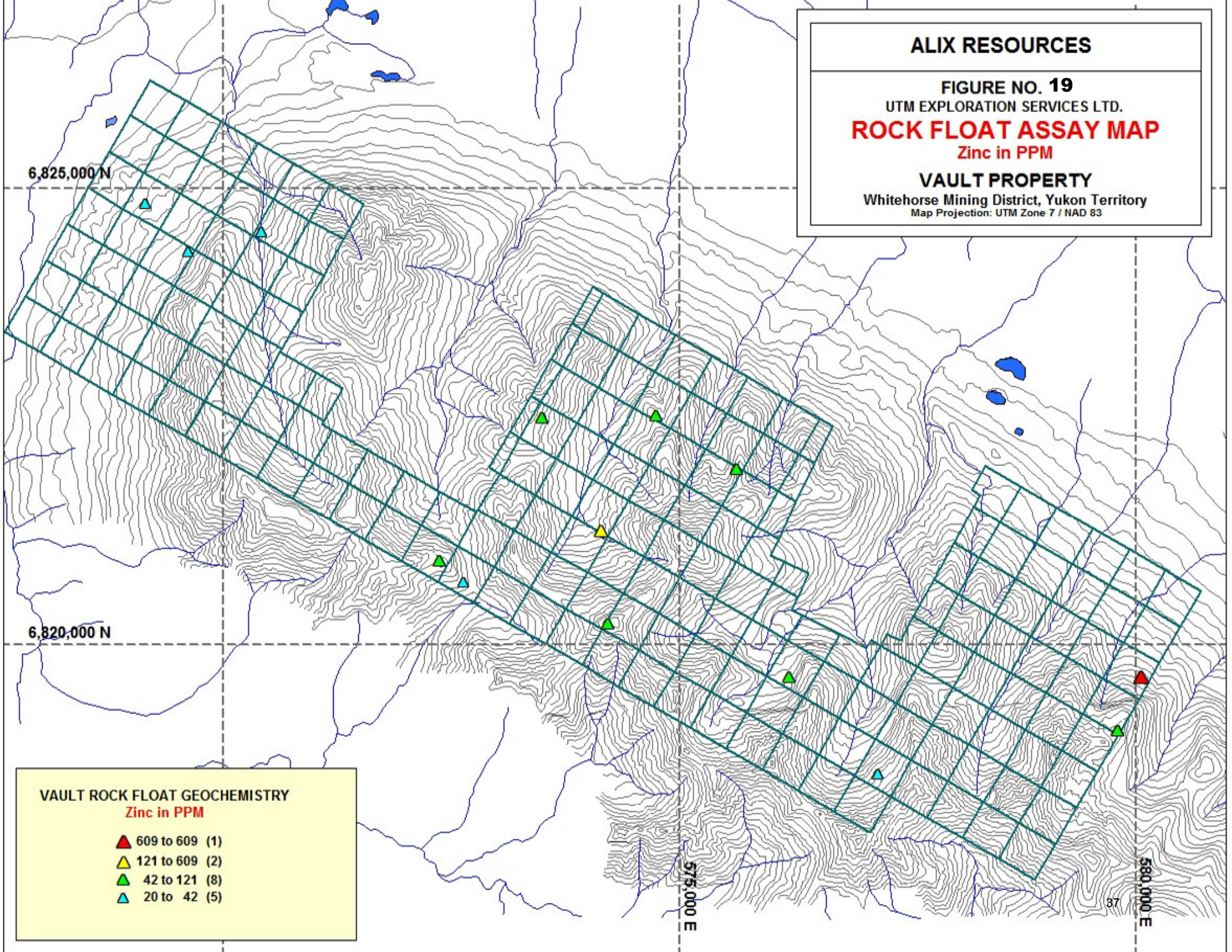

ALIX RESOURCES
FIGURE NO. 14
UTM EXPLORATION SERVICES LTD.
ROCK OUTCROP ASSAY MAP
Chromium in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
Vault Rock Outcrop Geochemistry
Chromium in PPM
172 to 424 (13)
93 to 172 (20)
48 to 93 (19)
9 to 48 (22)

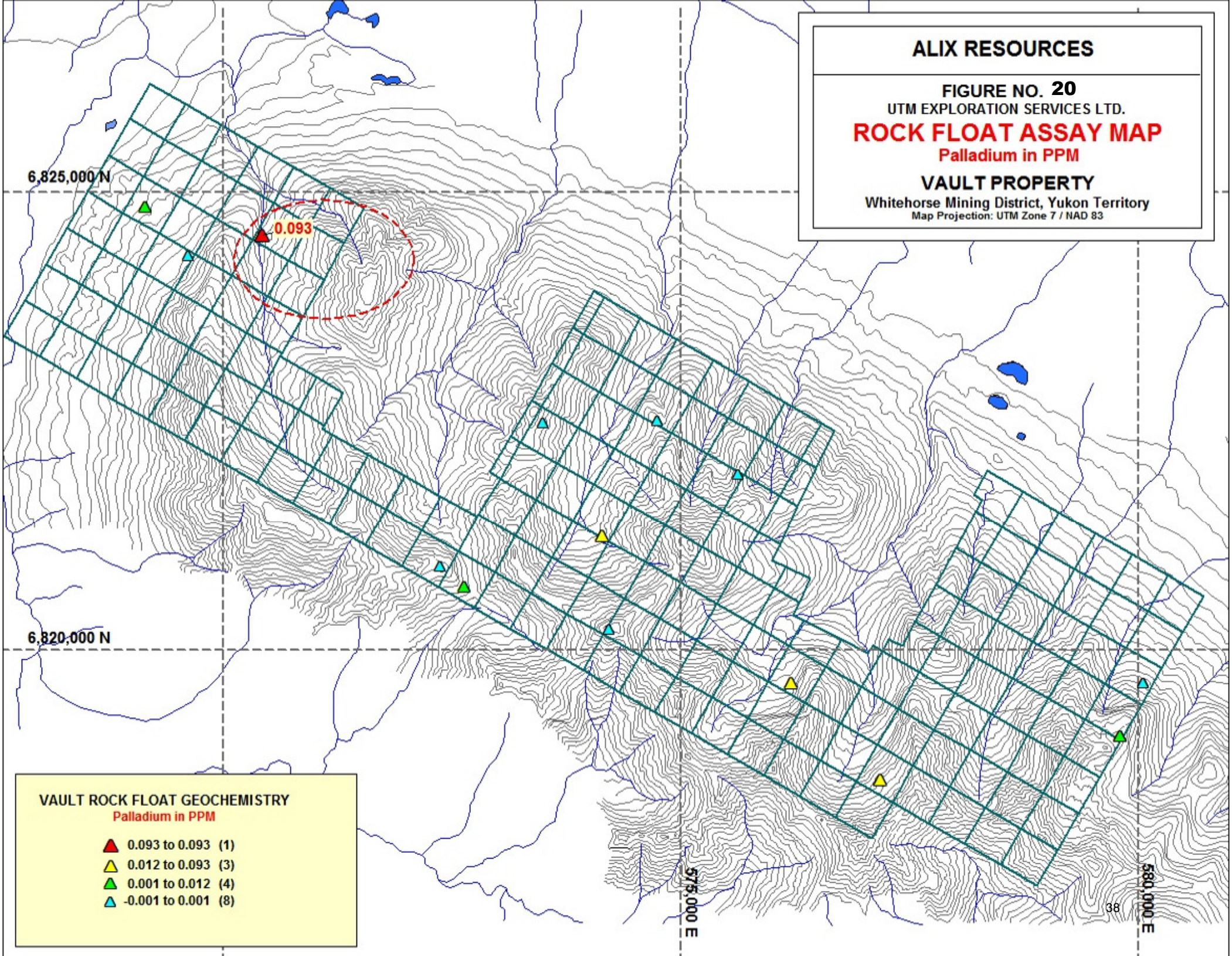

ALIX RESOURCES
FIGURE NO. 15
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Gold in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
0.43 ppm
0.133 ppm
VAULT ROCK FLOAT GEOCHEMISTRY
Gold in PPM
0.426 to 0.426 (1)
0.133 to 0.426 (1)
0.026 to 0.133 (3)
-0.001 to 0.026 (11)

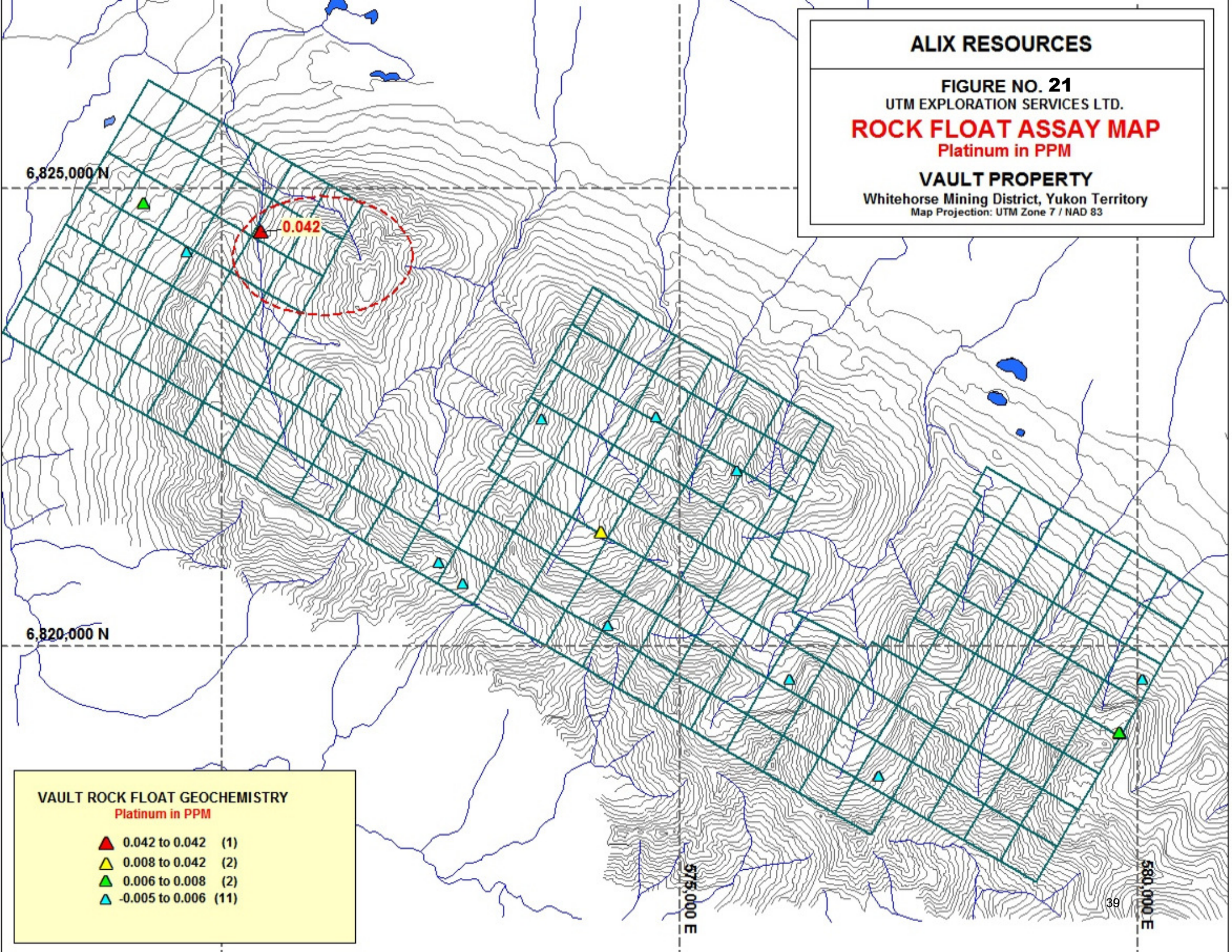

ALIX RESOURCES
FIGURE NO. 16
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Silver in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
VAULT ROCK FLOAT GEOCHEMISTRY
Silver in PPM
5.94 to 5.94 (1)
0.59 to 5.94 (3)
0.14 to 0.59 (5)
0.02 to 0.14 (7)

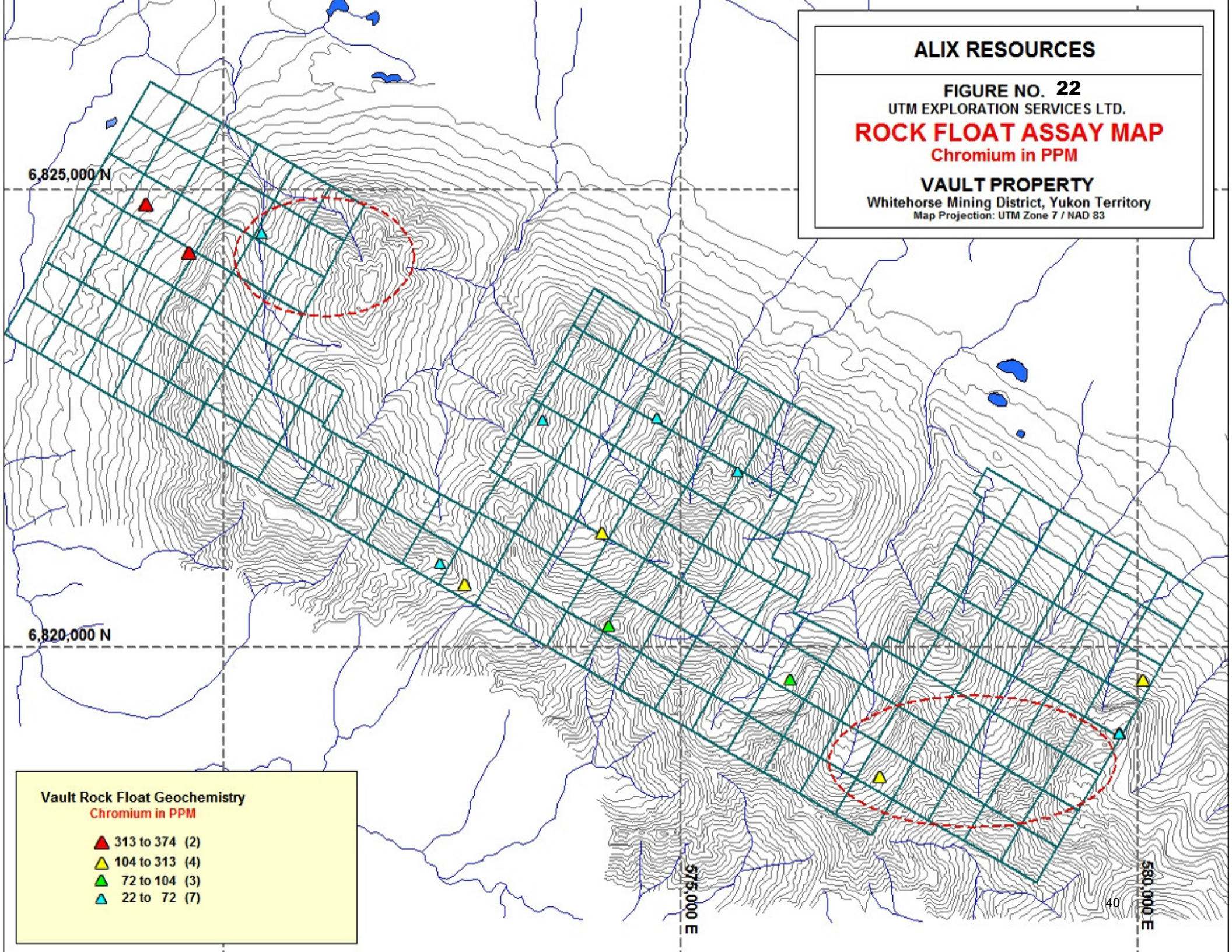

ALIX RESOURCES
FIGURE NO. 17
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Copper in Percent
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
0.219 %
16.19 %
Target Area for
Follow-up Work
575,000 E
580,000 E
VAULT ROCK FLOAT GEOCHEMISTRY
Copper in Percent
16.19 to 16.19 (1)
0.22 to 16.19 (1)
0.01 to 0.22 (3)
0.00 to 0.01 (11)


ALIX RESOURCES
FIGURE NO. 18
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Lead in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
VAULT ROCK FLOAT GEOCHEMISTRY
Lead in PPM
17.50 to 55.70 (4)
3.50 to 17.50 (4)
1.10 to 3.50 (5)
0.10 to 1.10 (3)


ALIX RESOURCES
FIGURE NO. 19
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Zinc in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
VAULT ROCK FLOAT GEOCHEMISTRY
Zinc in PPM
609 to 609 (1)
121 to 609 (2)
42 to 121 (8)
20 to 42 (5)


ALIX RESOURCES
FIGURE NO. 20
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Palladium in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
0.093
575,000 E
580,000 E
VAULT ROCK FLOAT GEOCHEMISTRY
Palladium in PPM
0.093 to 0.093 (1)
0.012 to 0.093 (3)
0.001 to 0.012 (4)
-0.001 to 0.001 (8)


ALIX RESOURCES
FIGURE NO. 21
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Platinum in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
0.042
575,000 E
580,000 E
VAULT ROCK FLOAT GEOCHEMISTRY
Platinum in PPM
0.042 to 0.042 (1)
0.008 to 0.042 (2)
0.006 to 0.008 (2)
-0.005 to 0.006 (11)


ALIX RESOURCES
FIGURE NO. 22
UTM EXPLORATION SERVICES LTD.
ROCK FLOAT ASSAY MAP
Chromium in PPM
VAULT PROPERTY
Whitehorse Mining District, Yukon Territory
Map Projection: UTM Zone 7 / NAD 83
6,825,000 N
6,820,000 N
575,000 E
580,000 E
Vault Rock Float Geochemistry
Chromium in PPM
313 to 374 (2)
104 to 313 (4)
72 to 104 (3)
22 to 72 (7)

6. Exploration

6.1 Property Bedrock Mapping

6.1.1 Introduction

The semi-detailed to detailed mapping and sampling work was undertaken during the period of July 23 to September 20, 2011. During most of the period, the activities were pursued with only one team although at various times throughout the mapping exercise several UTM geologists from other project sites in the Yukon came to help out especially in the coverage of the northwestern sections of the claims group. Owing to the area's high relief and the absence of direct access roads, the mapping teams were brought to the field and picked up daily back to the camp site by a helicopter.

6.1.2 Methodology

Mapping activities were undertaken utilizing a GPS-based traverse method and with a 1:5,000m. scale topographic base map as field reference. All areas to be covered on a daily basis were pre-determined and carefully planned in order for the team to get a better grasp of the work timelines and to regularly monitor the daily work progress. Most of the starting and end points for daily traverses had been plotted on base maps, encoded on the handheld GPS receivers and then used in the GPS navigation process during mapping. Other than serving as accurate guides for the mapping teams in the daily work, this process also gave the helicopter pilot the information on the areas of coverage ahead of time and thus, he also could provide the team the advice on the best drop-off and pick up points.

The traverses were conducted along creeks, ridges and spurs where most of the rock outcrops are located. While doing the traverse, the track/s are continuosly being saved in the GPS and and should it be necessary, the database could be accessed while still in the field. A Important spots like rock outcrops, creek junctions, stations of previous exploration workers, previous exploration workings, etc. are marked as Observation Stations and various information to describe such spots other than the coordinates and elevation are written in the field books. For rock outcrops, the pertinent data include among others the rock type, alteration, mineralization and structure attitudes. Likewise, if samples are to be collected, all important data related to the samples are recorded and also incorporated in particular observation station documentations.

At the camp after the mapping process, all the tracks recorded in the GPS are downloaded to the work computer daily. Track as well as all waypoint spreadsheets are saved and immediately imported into the GIS software. An updated mapping progress map is produced daily showing the plot of the traverses and the location of all the observation stations. This same dataset serves as the basis for the daily project updates which are being sent by the team from the field to the head office.

All technical data are also plotted daily onto a 1:5,000 scale topographic base map. As work progresses, the field data being accumulated could possibly indicate any possible technical information that could provide the team an idea on the nature of the work target/s. Thus, data updates as plotted daily are continuously being reviewed and studied. Also, the updates could provide the team the needed output that can be used to better make the mapping process more effective and efficient. Modifications on the plans and/or a change in the order of priorities for the areas of coverage could be carried out depending on what is being gathered from earlier work results.

At the end of the mapping process, the base map which contains the plots of all daily mapping work will then be finally reviewed. Data correlation will now be done to come up with a geologic map for the entire area of coverage. Should there be any data discrepancies, insufficiencies or any questionable information that may arise during the process, the particular areas will be revisitied and the conflicts shall be resolved before a final output is released.

The base map consisting of all correlated data on the property's geology will eventually be computer-scanned. The resulting image file of manually-generated geologic map will then be registered and digitized on-screen using a GIS software. The final format of the geologic map of the area will then be a GIS file complete with all the various field information like lithology, structures, and other geologic features. With this format, plotting of particular types of maps for any particular purpose would then be straightforward.

6.1.3 Lithology, Alteration and Structure

Please refer to Section 5.2 of this report.

6.4 Rock Geochemistry

Please refer to Section 5 and Appendix I of this report.

7. Sampling

7.1 Sampling Method and Approach

Rock samples were usually taken if a specimen was strongly enriched in silica or if it contained minerals such as galena, chalcopyrite, pyrite or arsenopyrite, which are commonly associated with gold and silver, or any of the weathering products of those minerals. Rock samples are usually not representative of the average grade of a mineral occurrence but serve to establish the presence or absence of mineralization with grades of economic interest. Rock samples were described in detail before being placed in plastic bags, together with individually pre-numbered

assay tags. The sample sites were determined using topographic maps and GPS readings.

7.2 Sample Preparation, Analyses, and Security

All samples were shipped directly to AGAT labs in Whitehorse for preparation, and then prepared samples were sent on to the main lab in Calgary, Alberta for analysis. Samples were tested for a multi-element ICP and then fire assayed for accurate gold content. Please see Appendix II for AGAT Lab methodologies.

7.3 Data Verification

As well as the lab's own QA/QC procedures, blanks and standards were inserted into the sample stream in order to verify the lab's findings, cleanliness, and detection limits. When one standard was returned with anomalous results, the lab reran the series and no further issues were encountered.

7.4 Results

Please refer to Sections 5 and 8, and Appendix I, of this report.

8. Interpretation and Conclusions

Over all, it is perceived that the mineralized zones at Vault occur as localized bands/veins or lenses within the Permian meta-andesites and phyllites. No widespread hydrothermal alteration had been mapped out and largely, the chlorite-silica-sericite and variable epidote alteration noted had been largely due to the low-grade regional metamorphic processes. Field exposures indicate that the type of mineralization in the area could be related to a volcanogenic massive sulfide type of mineralization. However, all exposures which were uncovered so far remain as tight, narrow and very localized lenticular masses which are in sharp contacts with un-mineralized host rocks.

No ultramafic rock outcrops, possible feeders to the younger Triassic-aged volcanics and associated with most of the known gold, base metals and PGE mineralization in the district, had been encountered within the property. However, several gabbro dikes and peridotite boulder floats had been mapped out in the NW sections of the property. It is perceived that the most likely source area for the peridotite boulder floats is within the immediate vicinity of the nearest thrust fault and in possible association with some gabbro units. As observed, a number of the gabbro bodies within the property occur as sheared or sliced up bodies at or near the thrust zones. The gabbro units encountered so far indicate no obvious correlation to the Wellgreen Mine type of PGE-rich Cu-Ni deposit but the gabbro outcrops as well as peridotite rock floats in NW Vault should be examined in more detail to trace out possible mafic-ultramafic outcrops and then further assess their mineralization

potential. Likewise, indications could also be drawn out as to the presence of buried mafic-ultramafic bodies that could be further investigated through ground geophysical surveys.

The massive sulfide zones albeit localized that have been uncovered in the meta-rocks in the property are most likely products of the same Wellgreen-type of mineralization and is indicative of the higher levels of the system. However, complexities in stratigraphy would be likely because of the various folding and thrusting events. As such, we could not easily and directly relate the stratigraphic levels of the mineralized zone/s at the Wellgreen Mine with the current zones of mineralization observed and/or the possible mineralized target levels to be uncovered at Vault.

The current exposures at SE Vault show very limited extents and appear to be more like lenticular masses rather than veins with longer lateral as well as vertical continuities. A possible mineralized zone and the immediate target for follow-up investigation is outlined as a 120 hectare zone in this area (Figures 6, 8, 13 and 15). In this zone, a number of mineralized rock floats had been found during the recent survey and finding the source areas of these materials as well as the discovery of other distinct and separate mineralized zones could still be uncovered at depths.

At NW Vault, no distinct Au-Base Metal-PGE mineralization had been observed but the gabbro dikes and the peridotite rock floats encountered as well as the anomalous Pt and Pd values picked up in samples from these rock units still indicate a potential for the area. A 70-hectare zone is deemed as the immediate area for follow-up investigation in this NW section of the property (Figures 11, 12, 18 and 19).

9. Recommendations

Although the mineralized rock outcrops and floats which had been observed so far in SE Vault appear very limited and localized, tracing out wider zones of veins or pods could still possibly be delineated at depths or discovered buried in the thick talus cover. The significant Au-Ag and Cu mineralization clearly indicates possible stratigraphic-controlled massive sulfide deposits and finding lateral and vertical extensions and/or other distinct ore zones remain possible. The immediate target in SE Vault is a zone of about 120 hectares (Figure 6). More detailed surface mapping and sampling, ground electro-magnetics survey and eventually, sub-surface investigation through drilling would be necessary to further examine the nature of the deposit. Three (3) holes with an aggregate length of 1,000 meters are recommended to be drilled should the results of the follow-up ground work turn out encouraging. Subsequently, 1,000 meters more of drilling could be pursued if the initial drilling results prove successful.

At the NW sections of the claims, an area of about 70 hectares remains as the immediate target for further investigation (Figures 11 and 12). Although no ore-grade values had been picked up during the last field assessment, Pt and Pd came out anomalous in both the rock outcrop and float samples collected in this area. More detailed mapping and ground magnetic survey are recommended to be pursued in the next phase of investigation to delineate the mafic-ultramafic zone/s, further assess their mineralization potential and eventually define possible sub-surface targets.

10. Statement of Costs

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
Andrea Burke - Geo Tech/FA	July 16-21	6	$422.00	$2,532.00	
Andrea Burke - Geo Tech/FA	Sept 12-18	7	$422.00	$2,954.00	
Sarah Mah - Geo	July 22-30	8	$425.00	$3,400.00	
Sarah Mah - Geo	July 31-Aug 20	16	$425.00	$6,800.00	
Rene Victorino - PM	july 26-30	4	$700.00	$2,800.00	
Rene Victorino - PM	July 31-Aug 20	11	$700.00	$7,700.00	
Rene Victorino - PM	Aug 30-Sept 18	20	$700.00	$14,000.00	
K.Mackenzie - PM	July 24-30	6	$700.00	$4,200.00	
K.Mackenzie - Geo	Sept 12-18	7	$550.00	$3,850.00	
Richard Beck - Geo	July 31-Aug 20	28	$55.00	$1,540.00	
Richard Beck - Geo	Sept	16	$55.00	$880.00	
Richard Beck - PM	Sept 18-19	1.5	$700.00	$1,050.00	
Charles Tadashore - Prospector	Sept 7 -18	12	$425.00	$5,100.00	
Glenda Wyatt - Geo	Sept 7 -18	12	$425.00	$5,100.00	
Rob Maurer - Logistics	Aug	15	$55.00	$825.00	
Jonathan Hartman - Geotech/Fa	Aug 30-Sept 18	20	$422.00	$8,440.00	
			$0.00	$0.00	
				$71,171.00	**$71,171.00**
Office Studies	**List Personnel (note - Office only, do not include field days**				
Literature search			$0.00	$0.00	
Database compilation			$0.00	$0.00	
Computer modelling			$0.00	$0.00	
Reprocessing of data			$0.00	$0.00	
General research			$0.00	$0.00	
Report preparation			$0.00	$0.00	
GIS	Field And Permit Maps	10.0	$60.00	$600.00	
Permit Application				$250.00	
Other (specify)					
				$850.00	**$850.00**
Ground Exploration Surveys	**Area in Hectares/List Personnel**				
Geological mapping					
Staking				$1,102.50	
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			$1,102.50	**$1,102.50**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Drill (cuttings, core, etc.)			$0.00	$0.00	
Stream sediment			$0.00	$0.00	
Soil	Aug 30 - Sept 18		$0.00	$2,243.25	
Soil	Sept 25 - Nov 7			$3,757.80	
Rock			$0.00	$0.00	
Water			$0.00	$0.00	
Biogeochemistry			$0.00	$0.00	
Whole rock			$0.00	$0.00	
Petrology			$0.00	$0.00	
Other (specify)			$0.00	$0.00	
				$6,001.05	**$6,001.05**
Transportation		**No.**	**Rate**	**Subtotal**	
Airfare	July 16-30		$0.00	$26,752.87	
Airfare	July 31 - Aug 20			$14,531.35	
Airfare	Aug 30 - Sept 18			$1,762.63	
Taxi			$0.00	$0.00	

truck rental - Crew	July 16-30	14.00	$90.00	$1,260.00	
truck rental - Crew	Aug 30 - Sept 18	20.00	$90.00	$1,800.00	
kilometers - Crew	July 16-30	3000.00	$0.75	$2,250.00	
kilometers - Crew	Aug 30 - Sept 18	6200.00	$0.75	$4,650.00	
ATV			$0.00	$0.00	
fuel			$0.00	$0.00	
Helicopter (hours)			$0.00	$44,857.71	
Fuel (litres/hour)			$0.00	$0.00	
Other					
				$97,864.56	**$97,864.56**
Accommodation & Food	**Rates per day**				
Hotel	July 16-30		$0.00	$72.80	
Hotel	Aug 30 - Sept 18			$249.45	
Hotel	Sept 25 - Nov 7			$1,821.34	
Hotel Room & Board	July 16-30		$0.00	$4,331.83	
Hotel Room & Board	Aug 30 - Sept 18			$6,577.45	
Meals	July 16-30		$0.00	$57.04	
				$13,109.91	**$13,109.91**
Miscellaneous					
Telephone			$0.00	$0.00	
Sat Phone	July 16-30	0.50	$360.00	$180.00	
Sat Phone	July 31 - Aug 20	0.75	$360.00	$270.00	
Sat Phone	Aug 30 - Sept 18	1.00	$360.00	$360.00	
Sat Phone minutes	July 16-30	100.00	$2.00	$200.00	
Sat Phone minutes	July 31 - Aug 20	100.00	$2.00	$200.00	
Sat Phone minutes	Aug 30 - Sept 18	100.00	$2.00	$200.00	
Management markup				$118.84	
Management markup	July 16-30			$5,239.25	
Management markup	July 31 - Aug 20			$3,342.49	
Management markup	Aug 30 - Sept 18			$10,379.15	
Management markup	Sept 25 - Nov 7			$918.17	
Expediting	July	20.00	$55.00	$1,100.00	
Expediting	July 31 - Aug 20			$857.33	
Expediting	Aug 30 - Sept 18			$285.00	
Field Gear - Supplies	July			$333.00	
Other - FN Consulting	July			$100.00	
Other Supplies	July			$9.91	
				$24,093.14	**$24,093.14**
Equipment Rentals					
Field Gear - Prospecting kit	July 16-30	14.00	$25.00	$350.00	
Field Gear - Prospecting kit	July 31 - Aug 20	21.00	$25.00	$525.00	
Field Gear - Prospecting kit	Aug 30 - Sept 18	80.00	$25.00	$2,000.00	
Radios	July 16-30	1.00	$56.00	$56.00	
Radios	July 31 - Aug 20	1.00	$56.00	$56.00	
Radios	Aug 30 - Sept 18	1.00	$56.00	$56.00	
First Aid Gear	Aug 30 - Sept 18	20.00	$30.00	$600.00	
camp Computer	July 31 - Aug 20	21.00	$25.00	$525.00	
camp Computer	Aug 30 - Sept 18	20.00	$25.00	$500.00	
Other (Specify)					
				$4,668.00	**$4,668.00**
Freight, rock samples					
			$0.00	$0.00	
			$0.00	$0.00	
				$0.00	**$0.00**
TOTAL Expenditures					**$218,860.16**

11. References

Benoit, D. et. al. 2007. Gold-Rich Volcanogenic Massive Sulphide Deposits, in Goodfellow, W.D., ed., Mineral Deposits of Canada: A Synthesis of Major Deposit-Types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods: Geological Association of Canada, Mineral Deposits Division, Special Publication No. 5, p. 75-94.

Carne, R.C. 2003. Metallogeny of the Kluane Ranges, SW Yukon Territory

Chung, C.J. and Smith, H. 2011. Assessment Report Describing Prospecting and Geochemical Sampling at the Vault Property, Whitehorse Mining District, Yukon Territory; report prepared by Archer, Cathro & Associates (1981) Limited.

Galley, A. et. al. 2007. Volcanogenic Massive Sulphide Deposits, in Goodfellow, W.D., ed., Mineral Deposits of Canada: A Synthesis of Major Deposit-Types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods: Geological Association of Canada, Mineral Deposits Division, Special Publication No. 5, p. 141-161.

Smith J.G. and MacKevett, Jr. 1970. The Skolai Group in the McCarthy B-4, C-4 and C-5 Quadrangles, Wrangell Mountains, Alaska

Taylor, B. E. 2007. Epithermal Gold Deposits, in Goodfellow, W.D., ed., Mineral Deposits of Canada: A Synthesis of Major Deposit-Types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods: Geological Association of Canada, Mineral Deposits Division, Special Publication No. 5, p. 113-139.

12. Statement of Qualifications

I, Anastasia Ledwon, residing at 4901 Slack Road, Smithers, British Columbia, do hereby certify that:

a. I am part owner and am currently employed as a consulting geologist by:

UTM Exploration Services Ltd.
PO Box 5037
Smithers, British Columbia, Canada
V0J 2N0

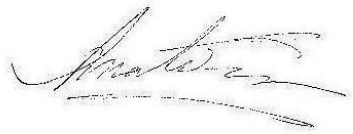
b. I graduated from the University of Victoria in 1997 with a B.Sc (With Honours) (With Distinction) in Earth and Ocean Sciences;

c. I am a Professional Geoscientist (P.Geo) registered with the Association of Professional Engineers and Geoscientists of British Columbia, license #33898, and have been a member in good standing since 2009;

d. Between 1997 and 2001 I was continuously employed as a geoscientist in research geology and from 2005 until present I have been continuously employed as a geologist in the mineral exploration sector;

e. I have not yet visited this property and am not responsible for the data collected herein.

Dated at Smithers, British Columbia, this 20th day of December, 2011.



Anastasia Ledwon, P.Geo

STATEMENT OF QUALIFICATIONS

I, Renato S. Victorino, geologist, with business address in Smithers, British Columbia and residential address at #1 - 9077 150th Street, Surrey, British Columbia, V3R7Z2 do hereby certify that:

1. I graduated from the University of the Philippines in 1985 with a Bachelor of Science Degree in Geology.

2. From 1986 to present, I have been actively engaged in mineral exploration in the Philippines, Indonesia, Mongolia, Canada and East Africa.

3. On May 30, 2011, I joined UTM Exploration Services Ltd. as an Exploration Project Manager-Geologist.

4. I have personally participated in and supervised the field work reported herein and was part of the team that processed and interpreted all the data resulting from this work.

Renato S. Victorino
B.Sc., MBA

Appendix I: Assay Results

AGAT Laboratories

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:

AGAT WORK ORDER: 11Y531260

SOLID ANALYSIS REVIEWED BY: David Tye, General Manager, Mining Operations

DATE REPORTED: Sep 29, 2011

PAGES (INCLUDING COVER): 10

Should you require any information regarding this analysis please contact your client services representative at (905) 501 9998, or at 1-800-856-6261

*NOTES

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

Results relate only to the items tested

AGAT Laboratories

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FAX (905)501-0589
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Certificate of Analysis

AGAT WORK ORDER: 11Y531260
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 21, 2011 | DATE RECEIVED: Sep 21, 2011 | DATE REPORTED: Sep 29, 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
5214171	0.24	3.61	1.1	<1	<5	11	0.36	0.02	4.02	0.05	14.8	33.3	156	0.69
5214172	0.07	4.01	8.0	<1	<5	12	0.16	<0.01	1.10	0.03	9.52	45.4	208	0.10
5214173	0.18	4.92	32.6	<1	<5	4	0.29	<0.01	2.50	0.10	11.0	25.3	162	0.15
5214174	0.67	1.42	4.5	8	<5	59	0.15	0.19	0.45	0.20	11.6	11.0	53.6	0.12
5214175	0.18	2.62	1.2	4	<5	89	0.22	<0.01	2.21	0.02	7.94	22.1	122	0.13
5214176	0.26	1.49	4.9	<1	<5	25	0.14	0.23	14.3	19.0	9.16	8.0	28.0	0.07
5214177	0.09	1.55	1.4	1	<5	195	0.31	0.01	2.40	0.19	7.41	8.9	52.6	0.21
5214178	0.24	1.30	1.9	8	<5	28	0.08	0.01	3.16	0.09	3.45	42.9	38.2	<0.05
5214179	0.03	1.17	2.0	3	<5	28	0.08	<0.01	3.04	0.03	4.32	12.4	64.3	<0.05
5214180	0.97	0.39	0.7	500	<5	72	0.12	0.13	3.84	0.07	6.30	8.2	130	<0.05
5214181	0.04	1.20	0.6	6	<5	146	0.15	<0.01	3.38	0.04	21.2	7.9	61.7	<0.05
5214182	0.05	1.29	1.4	21	<5	25	<0.05	<0.01	2.86	0.02	2.41	26.2	89.2	<0.05
5214183	0.24	1.67	1.3	17	<5	84	0.14	<0.01	2.66	0.08	6.15	17.2	33.8	0.14
5214184	5.07	1.58	2.8	89	<5	2	<0.05	0.08	3.38	0.71	2.18	15.9	133	0.15
5214269	0.12	1.53	0.5	<1	<5	35	0.17	<0.01	2.30	0.03	17.8	8.9	37.2	0.43
5214270	0.12	2.66	7.0	2	<5	66	0.28	0.12	4.96	0.09	8.65	28.3	112	0.24
5214322	0.08	3.04	1.4	12	<5	34	0.11	0.02	6.80	0.04	1.86	31.7	226	0.10
5214323	0.06	1.16	0.8	11	<5	17	<0.05	<0.01	14.9	0.13	4.59	11.8	73.4	<0.05
5214324	0.11	2.24	1.1	1	<5	14	0.12	<0.01	1.57	0.06	7.25	27.5	16.4	0.25
5214325	0.22	0.08	4.2	88	<5	11	<0.05	0.03	0.57	0.02	0.95	3.2	218	<0.05
5214326	0.05	1.26	10.2	<1	<5	15	<0.05	0.04	13.8	0.35	3.16	9.3	36.8	0.20
5214327	0.05	3.12	4.6	2	<5	11	0.09	0.01	3.23	0.02	6.46	33.1	101	<0.05
5214328	0.03	2.23	1.1	<1	<5	103	0.11	<0.01	1.97	0.03	5.98	22.2	313	0.14
5214329	0.02	5.02	5.3	<1	<5	79	0.12	<0.01	3.47	0.05	4.69	16.5	374	0.13
5214169	0.38	1.16	3.7	<1	<5	91	0.25	0.06	0.80	0.21	12.9	9.3	20.9	0.35

Certified By:

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y531260

PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 21, 2011 | DATE RECEIVED: Sep 21, 2011 | DATE REPORTED: Sep 29, 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
5214171	58.4	4.77	9.63	0.09	0.21	0.01	0.019	0.02	6.4	10.8	3.35	1460	1.15	0.05
5214172	98.1	5.52	9.49	0.10	0.17	0.01	0.007	0.02	4.0	15.8	4.63	1320	0.73	0.07
5214173	78.9	5.19	9.51	0.13	0.22	0.02	0.009	<0.01	5.0	54.7	4.16	1530	1.12	0.08
5214174	17.4	6.24	7.42	0.08	0.63	0.04	<0.005	0.12	5.2	5.9	0.89	738	2.42	0.15
5214175	52.8	3.65	7.72	<0.05	0.14	0.01	<0.005	0.27	3.6	13.4	2.30	1060	0.36	0.07
5214176	18.6	2.38	3.58	<0.05	0.03	0.02	0.033	0.12	5.4	7.0	0.97	1700	21.3	0.03
5214177	34.1	1.84	5.95	<0.05	0.08	0.01	<0.005	0.22	3.5	6.0	0.67	826	0.59	0.19
5214178	361	5.76	5.13	0.09	0.24	0.02	0.014	0.10	1.3	3.5	1.13	433	0.35	0.11
5214179	16.4	4.13	5.12	0.08	0.26	0.01	0.009	0.13	1.8	1.4	0.90	411	0.22	0.11
5214180	12.0	2.01	1.28	<0.05	<0.02	<0.01	<0.005	0.21	3.1	0.4	0.83	1250	2.17	0.05
5214181	27.0	1.98	3.64	<0.05	0.03	<0.01	<0.005	0.36	10.5	5.9	0.56	1120	0.76	0.11
5214182	28.5	8.05	5.73	0.09	0.21	<0.01	0.011	0.05	0.9	3.2	1.28	376	0.30	0.06
5214183	344	4.34	5.56	<0.05	0.32	<0.01	0.008	0.34	2.8	5.1	1.10	602	0.33	0.11
5214184	>10000	5.03	4.96	<0.05	0.06	0.05	0.682	<0.01	1.0	12.6	1.43	872	8.19	0.03
5214269	78.7	2.03	7.19	<0.05	<0.02	<0.01	0.009	0.12	8.8	9.8	0.82	374	0.51	0.10
5214270	79.6	4.13	7.52	<0.05	0.69	0.01	0.009	0.18	3.2	7.7	1.69	1180	0.93	0.13
5214322	30.1	4.28	7.86	<0.05	0.06	<0.01	<0.005	0.17	1.0	12.8	2.77	1660	0.21	0.07
5214323	41.3	1.95	3.19	<0.05	0.04	<0.01	<0.005	0.03	2.2	4.8	1.16	2380	1.05	0.06
5214324	144	4.24	7.50	0.11	0.18	<0.01	0.005	0.06	3.3	13.9	1.73	982	0.51	0.07
5214325	11.2	0.73	0.23	<0.05	<0.02	<0.01	<0.005	0.02	0.4	0.3	0.21	143	3.54	<0.01
5214326	21.5	1.93	2.78	<0.05	0.05	<0.01	<0.005	0.05	1.7	7.0	0.77	361	1.43	0.07
5214327	96.2	4.85	8.50	0.09	0.12	0.01	0.006	0.02	2.7	12.4	2.79	1030	0.70	0.11
5214328	53.0	2.37	4.96	<0.05	0.16	<0.01	<0.005	0.16	2.4	9.0	1.83	555	1.17	0.05
5214329	16.3	2.30	10.8	0.05	0.15	<0.01	0.009	0.06	2.2	1.2	1.18	333	0.40	0.33
5214169	22.5	2.00	4.42	0.05	0.51	0.66	0.013	0.08	6.0	7.8	0.53	341	3.52	0.07

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Certificate of Analysis

AGAT WORK ORDER: 11Y531260
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 21, 2011 | DATE RECEIVED: Sep 21, 2011 | DATE REPORTED: Sep 29, 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
5214171	0.09	50.4	838	2.8	0.9	0.001	0.070	0.23	16.6	<0.2	<0.2	145	<0.01	0.03
5214172	0.15	72.9	885	1.2	0.7	0.001	0.078	0.27	11.4	0.2	<0.2	50.9	<0.01	0.01
5214173	0.29	39.8	680	2.8	0.3	0.001	0.084	1.04	14.4	0.2	<0.2	166	<0.01	0.02
5214174	1.83	1.1	894	20.3	4.0	0.074	4.01	0.70	5.8	1.5	0.5	31.7	<0.01	0.08
5214175	0.32	44.8	887	1.3	8.6	0.002	0.062	0.28	5.0	<0.2	<0.2	78.2	<0.01	0.05
5214176	0.17	14.3	196	122	3.8	0.008	0.713	0.28	3.3	2.6	<0.2	155	<0.01	0.45
5214177	0.51	2.9	678	5.8	7.0	0.001	0.510	0.13	3.0	<0.2	<0.2	315	<0.01	0.03
5214178	0.11	6.1	285	4.6	0.9	<0.001	0.281	0.53	13.5	0.6	0.2	124	<0.01	0.04
5214179	0.15	7.9	251	1.2	2.5	<0.001	0.040	0.66	12.9	<0.2	0.2	157	<0.01	0.03
5214180	<0.05	3.2	581	9.2	3.8	0.001	1.24	0.07	2.3	0.6	<0.2	326	<0.01	0.62
5214181	<0.05	1.9	598	4.8	7.0	<0.001	0.115	0.15	1.7	<0.2	<0.2	237	<0.01	<0.01
5214182	0.06	16.6	117	0.8	0.5	<0.001	0.036	0.65	15.2	<0.2	0.3	88.7	<0.01	0.02
5214183	0.20	6.3	239	1.8	7.2	<0.001	0.050	0.74	8.2	0.3	0.3	211	<0.01	0.18
5214184	0.09	28.4	118	2.5	0.3	0.005	2.25	1.47	7.9	5.4	<0.2	24.8	<0.01	0.15
5214269	<0.05	6.0	633	1.1	3.0	<0.001	0.033	0.15	3.4	<0.2	<0.2	47.0	<0.01	<0.01
5214270	0.31	24.3	660	2.8	6.4	0.001	0.688	0.14	8.8	<0.2	0.7	112	<0.01	0.04
5214322	0.07	67.1	180	2.2	6.4	0.002	0.274	0.20	12.1	<0.2	<0.2	113	<0.01	0.17
5214323	0.24	6.5	205	1.9	1.2	0.002	0.279	0.06	6.9	<0.2	<0.2	229	<0.01	0.06
5214324	0.19	23.6	402	1.6	3.7	0.002	0.058	0.24	6.5	0.2	<0.2	43.3	<0.01	<0.01
5214325	<0.05	7.0	54	0.7	0.6	0.002	0.085	<0.05	0.8	<0.2	<0.2	16.3	<0.01	0.23
5214326	0.47	10.9	256	2.0	1.8	0.008	10.9	0.19	2.8	1.9	0.2	197	<0.01	0.06
5214327	0.24	45.4	556	0.8	0.7	0.002	0.334	0.13	6.4	0.4	<0.2	76.2	<0.01	0.03
5214328	0.16	66.0	188	1.9	5.5	0.001	0.037	0.87	3.5	<0.2	<0.2	96.8	<0.01	0.02
5214329	0.07	90.4	242	0.8	2.3	0.002	0.154	<0.05	9.0	0.3	<0.2	198	<0.01	0.02
5214169	0.41	17.1	424	3.1	3.8	0.002	0.050	0.37	4.1	0.2	0.4	31.8	<0.01	0.03

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Certificate of Analysis

AGAT WORK ORDER: 11Y531260
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 21, 2011 | DATE RECEIVED: Sep 21, 2011 | DATE REPORTED: Sep 29, 2011 | SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-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
5214171	0.4	0.075	<0.02	0.11	108	0.10	10.3	80.2	6.9	
5214172	0.4	0.241	<0.02	0.08	149	0.21	7.75	104	4.8	
5214173	0.5	0.208	<0.02	0.16	126	0.43	7.20	64.1	7.2	
5214174	1.2	0.243	0.09	0.22	58.4	0.27	16.2	47.5	11.0	
5214175	0.4	0.181	0.05	0.11	83.1	0.31	6.45	56.4	3.1	
5214176	1.1	0.038	<0.02	0.51	39.0	0.11	9.65	837	<0.5	
5214177	0.5	0.111	0.07	0.25	59.3	0.10	4.30	53.2	1.3	
5214178	0.2	0.257	<0.02	0.13	210	0.30	4.31	17.8	5.3	
5214179	0.3	0.242	<0.02	0.20	181	0.16	4.65	16.9	6.2	
5214180	0.4	<0.005	<0.02	0.10	20.2	0.31	5.83	28.5	<0.5	
5214181	2.0	0.008	0.04	0.38	37.5	0.08	8.02	40.5	0.6	
5214182	0.2	0.288	<0.02	0.07	283	0.34	3.33	22.4	4.4	
5214183	0.4	0.226	0.05	0.33	179	0.16	5.00	29.7	6.3	
5214184	<0.1	0.057	0.03	0.15	104	0.18	2.97	54.5	1.4	2.36
5214269	0.2	<0.005	<0.02	<0.05	32.6	<0.05	3.24	50.5	0.7	
5214270	0.4	0.237	0.04	0.22	89.6	0.17	10.5	62.7	20.5	
5214322	<0.1	0.094	0.02	<0.05	100	0.15	3.61	60.0	1.6	
5214323	0.1	0.056	<0.02	0.06	50.7	0.16	5.53	27.3	0.8	
5214324	0.6	0.297	0.03	0.13	122	0.25	10.4	53.0	3.0	
5214325	<0.1	<0.005	<0.02	<0.05	7.7	0.34	0.64	8.4	<0.5	
5214326	0.4	0.068	<0.02	0.27	34.7	0.11	3.24	81.2	1.3	
5214327	0.3	0.226	<0.02	0.09	135	0.24	6.63	43.2	2.4	
5214328	0.3	0.187	0.02	0.07	73.8	0.35	4.00	31.9	3.3	
5214329	0.1	0.103	<0.02	0.07	100	<0.05	4.32	22.9	3.9	
5214169	1.4	0.131	0.06	0.44	55.8	35.9	8.35	27.5	9.6	

Comments: RDL - Reported Detection Limit

Certified By:

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AGAT WORK ORDER: 11Y531260
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Sep 21, 2011 | DATE RECEIVED: Sep 21, 2011 | DATE REPORTED: Sep 29, 2011 | SAMPLE TYPE: Rock

Analyte:	Au	Pd	Pt	Sample Login Weight
Unit:	ppm	ppm	ppm	kg
Sample Description RDL:	0.001	0.001	0.005	0.01
5214171	<0.001	0.005	0.007	0.54
5214172	0.003	0.004	0.005	0.72
5214173	<0.001	0.009	0.006	0.72
5214174	0.005	<0.001	<0.005	0.76
5214175	0.005	0.010	0.006	0.59
5214176	0.006	<0.001	<0.005	0.84
5214177	<0.001	<0.001	<0.005	1.05
5214178	0.002	0.007	0.006	1.11
5214179	0.006	0.029	0.023	0.69
5214180	0.492	<0.001	<0.005	0.83
5214181	0.006	0.002	<0.005	0.64
5214182	0.020	0.011	0.011	0.83
5214183	0.010	0.093	0.042	1.05
5214184	0.084	0.009	0.005	0.91
5214269	<0.001	<0.001	<0.005	0.87
5214270	<0.001	<0.001	<0.005	0.64
5214322	0.010	0.026	0.013	0.91
5214323	0.008	0.001	<0.005	0.74
5214324	<0.001	0.013	0.012	0.87
5214325	0.129	<0.001	<0.005	0.82
5214326	0.003	<0.001	<0.005	0.53
5214327	<0.001	0.010	0.009	1.46
5214328	<0.001	<0.001	<0.005	0.66
5214329	<0.001	0.004	0.006	0.70
5214169	<0.001	<0.001	<0.005	0.11

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES
AGAT WORK ORDER: 11Y531260
PROJECT NO:
ATTENTION TO: RICHARD BECK

Solid Analysis

RPT Date: Sep 29, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2725446	< 0.001	< 0.001	0.0%	< 0.001	0.0837	0.0849	99%	80%	120%
Pd	1	2725446	0.0053	0.0060	12.4%	< 0.001	0.036	0.037	98%	80%	120%
Pt	1	2725446	0.0070	0.0055	24.0%	< 0.005	0.093	0.090	104%	80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2725458	0.020	0.034		< 0.001				80%	120%
Pd	1	2725458	0.011	0.022		< 0.001				80%	120%
Pt	1	2725458	0.011	0.025		< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2725473	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
Pd	1	2725473	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
Pt	1	2725473	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Aqua Regia Digest - Metals - ICP/ICP-MS finish (201074) (UTM)											
Ag	1	2725446	0.24	0.05		0.06				80%	120%
Al	1	2725446	3.61	3.48	3.7%	< 0.01				80%	120%
As	1	2725446	1.1	1.1	0.0%	0.2				80%	120%
Au	1	2725458	< 1	< 1	0.0%	< 1	0.0837	0.0849	99%	80%	120%
B	1	2725446	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2725446	11	11	0.0%	< 1				80%	120%
Be	1	2725446	0.36	0.36	0.0%	< 0.05				80%	120%
Bi	1	2725446	0.02	0.01		< 0.01				80%	120%
Ca	1	2725446	4.02	3.87	3.8%	< 0.01				80%	120%
Cd	1	2725446	0.05	0.05	0.0%	< 0.01				80%	120%
Ce	1	2725446	14.8	15.0	1.3%	< 0.01				80%	120%
Co	1	2725446	33.3	33.2	0.3%	< 0.1				80%	120%
Cr	1	2725446	156	155	0.6%	< 0.5				80%	120%
Cs	1	2725446	0.694	0.697	0.4%	< 0.05				80%	120%
Cu	1	2725446	58.4	57.3	1.9%	0.2	3726	4700	79%	80%	120%
Fe	1	2725446	4.77	4.61	3.4%	< 0.01				80%	120%
Ga	1	2725446	9.63	9.65	0.2%	< 0.05				80%	120%
Ge	1	2725446	0.09	0.10	10.5%	< 0.05				80%	120%
Hf	1	2725446	0.212	0.231	8.6%	< 0.02				80%	120%
Hg	1	2725446	0.01	0.01	0.0%	< 0.01				80%	120%
In	1	2725446	0.0188	0.0171	9.5%	< 0.005				80%	120%
K	1	2725446	0.02	0.02	0.0%	< 0.01				80%	120%
La	1	2725446	6.4	6.4	0.0%	< 0.1				80%	120%
Li	1	2725446	10.8	10.8	0.0%	< 0.1				80%	120%
Mg	1	2725446	3.35	3.23	3.6%	< 0.01				80%	120%
Mn	1	2725446	1460	1450	0.7%	< 1				80%	120%
Mo	1	2725446	1.15	1.05	9.1%	< 0.05				80%	120%
Na	1	2725446	0.05	0.05	0.0%	< 0.01				80%	120%
Nb	1	2725446	0.09	0.09	0.0%	< 0.05				80%	120%
Ni	1	2725446	50.4	50.1	0.6%	< 0.2				80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y531260

PROJECT NO:

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Sep 29, 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
P	1	2725446	838	810	3.4%	< 10				80%	120%
Pb	1	2725446	2.8	2.8	0.0%	0.1				80%	120%
Rb	1	2725446	0.9	0.9	0.0%	< 0.1				80%	120%
Re	1	2725446	0.001	< 0.001		< 0.001				80%	120%
S	1	2725446	0.070	0.069	1.4%	< 0.005				80%	120%
Sb	1	2725446	0.23	0.22	4.4%	< 0.05				80%	120%
Sc	1	2725446	16.6	16.4	1.2%	< 0.1				80%	120%
Se	1	2725446	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Sn	1	2725446	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Sr	1	2725446	145	137	5.7%	< 0.2	281	390	72%	80%	120%
Ta	1	2725446	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2725446	0.03	0.02		< 0.01				80%	120%
Th	1	2725446	0.4	0.4	0.0%	< 0.1				80%	120%
Ti	1	2725446	0.0748	0.0700	6.6%	< 0.005				80%	120%
Tl	1	2725446	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2725446	0.11	0.11	0.0%	< 0.05				80%	120%
V	1	2725446	108	107	0.9%	< 0.5				80%	120%
W	1	2725446	0.10	0.10	0.0%	< 0.05				80%	120%
Y	1	2725446	10.3	10.2	1.0%	< 0.05		7		80%	120%
Zn	1	2725446	80.2	77.0	4.1%	1.4				80%	120%
Zr	1	2725446	6.9	6.9	0.0%	< 0.5				80%	120%

Certified By:

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y531260

PROJECT NO:

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

Results relate only to the items tested

5623 McADAM ROAD
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http://www.agatlabs.com

Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y531260

PROJECT NO:

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
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pd	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pt	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Sample Login Weight	MIN-12009		BALANCE

Results relate only to the items tested

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

ATTENTION TO: RICHARD BECK

PROJECT NO: Vault 03-11

AGAT WORK ORDER: 11Y529210

SOLID ANALYSIS REVIEWED BY: Ron Cardinall, Certified Assayer - Director - Technical Services (Mining)

DATE REPORTED: Sep 23, 2011

PAGES (INCLUDING COVER): 10

Should you require any information regarding this analysis please contact your client services representative at (905) 501 9998, or at 1-800-856-6261

*NOTES

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

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y529210

PROJECT NO: Vault 03-11

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 15, 2011 | DATE RECEIVED: Sep 15, 2011 | DATE REPORTED: Sep 23, 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
5214254	0.28	4.41	13.8	8	<5	57	0.09	0.63	4.26	0.05	5.94	27.0	134	0.43
5214255	1.37	5.03	1.9	13	<5	262	0.25	0.03	4.23	0.25	11.7	40.1	106	0.39
5214256	0.18	2.23	5.8	3	<5	54	0.09	0.01	1.94	0.07	3.55	24.4	30.1	0.06
5214257	0.07	2.30	1.4	3	<5	136	0.30	0.01	2.10	0.03	11.2	13.1	31.9	0.14
5214258	0.07	3.97	2.4	<1	<5	51	0.11	<0.01	2.31	0.05	5.80	24.9	215	0.62
5214259	>100	0.34	943	814	<5	11	0.05	64.3	1.78	493	2.63	20.5	12.6	0.21
5214260	0.22	2.91	2.1	2	<5	29	0.08	0.04	2.53	0.46	3.84	24.7	424	0.56
5214261	0.35	3.80	4.6	<1	<5	122	0.07	<0.01	1.73	0.12	3.00	29.5	292	0.33
5214262	0.05	3.03	4.0	1	<5	23	0.16	0.04	0.99	<0.01	10.8	21.1	44.1	0.10
5214263	0.09	3.21	2.2	2	<5	38	0.16	<0.01	2.95	0.03	6.48	35.0	32.6	<0.05
5214264	0.05	2.72	7.1	1	<5	12	0.19	0.01	4.81	0.19	4.50	19.4	121	<0.05
5214315	0.11	0.31	<0.1	4	<5	7	<0.05	0.04	>25	0.13	1.24	1.9	9.7	<0.05
5214316	0.15	4.88	20.9	<1	<5	93	0.25	0.11	0.82	0.04	6.04	10.2	75.9	0.25
5214317	0.26	4.08	3.5	5	13	48	0.29	<0.01	2.92	0.07	8.54	28.1	56.3	0.78
5214318	0.05	5.53	3.5	7	11	44	0.14	<0.01	2.63	0.03	1.44	38.5	194	1.13
5214319	0.02	1.13	5.8	2	<5	22	<0.05	<0.01	9.85	0.04	2.68	8.1	160	0.08
5214320	0.04	2.96	1.1	2	<5	86	0.21	<0.01	2.69	0.02	8.89	13.5	14.5	0.16
5214321	0.08	1.42	11.9	4	<5	10	0.10	0.04	13.0	0.03	4.62	10.8	122	<0.05
5214164	0.06	3.59	1.7	<1	5	63	0.15	<0.01	2.68	0.02	5.58	30.0	64.4	0.41
5214165	0.07	1.01	125	33	<5	46	0.06	<0.01	5.95	0.08	2.85	17.9	125	0.28
5214166	0.03	1.02	3.4	1	<5	61	0.11	<0.01	1.19	0.03	12.3	3.1	69.9	1.79
5214167	0.09	1.46	1.1	<1	<5	73	0.07	<0.01	1.26	0.03	6.65	5.5	70.8	0.48
5214168	0.10	3.48	2.4	2	<5	64	0.20	<0.01	2.44	0.12	9.33	30.8	59.6	0.53
5214170	0.23	2.05	3.3	5	<5	95	0.24	0.03	1.00	0.92	6.99	27.3	104	0.44

Certified By: Ron Cardinall

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y529210

PROJECT NO: Vault 03-11

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 15, 2011 | DATE RECEIVED: Sep 15, 2011 | DATE REPORTED: Sep 23, 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
5214254	100	6.51	11.3	0.07	0.03	<0.01	0.033	0.40	2.5	19.7	3.76	1600	0.55	0.08
5214255	2190	5.84	11.8	0.18	0.46	0.03	0.025	0.12	5.7	61.6	5.23	1250	0.23	0.04
5214256	218	2.92	4.31	0.06	0.10	<0.01	0.008	0.15	1.5	12.1	1.84	610	1.73	0.10
5214257	63.3	2.79	6.54	0.06	0.07	<0.01	0.015	0.46	5.0	13.8	1.78	718	2.47	0.13
5214258	85.0	3.73	8.75	0.08	0.11	<0.01	0.008	0.15	2.6	26.6	2.74	586	0.33	0.09
5214259	>10000	17.1	6.79	0.16	0.07	18.7	6.72	0.07	1.5	2.6	0.83	487	38.5	<0.01
5214260	83.3	3.53	7.56	0.08	0.14	0.20	0.020	0.06	1.6	22.4	3.51	852	0.29	0.12
5214261	88.7	3.79	7.11	0.08	0.11	0.10	0.007	0.21	1.4	18.4	3.39	745	0.24	0.10
5214262	8.5	4.37	8.66	0.16	0.22	0.07	0.013	0.07	5.4	13.1	2.08	919	0.33	0.21
5214263	147	6.04	8.32	0.14	0.18	0.04	0.020	0.01	2.9	9.0	2.47	1330	0.46	0.07
5214264	33.8	2.81	5.15	0.10	0.14	0.03	0.010	0.01	1.8	10.9	2.24	872	0.69	0.02
5214315	1.8	0.47	0.56	<0.05	0.02	0.05	<0.005	0.01	2.1	1.0	2.13	589	0.11	<0.01
5214316	32.0	7.22	9.72	0.10	<0.02	0.04	0.013	0.42	3.2	47.2	3.16	429	1.64	0.02
5214317	107	5.29	11.6	0.13	0.39	0.02	0.028	0.13	3.7	34.5	2.94	736	0.27	0.09
5214318	111	6.74	11.4	0.15	0.13	0.02	0.018	0.08	0.7	68.7	5.59	819	0.20	0.07
5214319	6.0	1.43	2.45	<0.05	<0.02	0.01	0.024	0.08	1.2	9.1	1.00	970	1.09	0.01
5214320	9.4	4.13	7.77	0.07	0.07	<0.01	0.013	0.43	4.3	11.9	1.39	1210	1.12	0.09
5214321	231	1.53	3.67	<0.05	0.06	<0.01	0.020	0.03	2.2	5.8	1.13	947	0.66	0.05
5214164	67.8	4.14	8.44	0.07	0.43	<0.01	0.014	0.41	2.1	27.1	3.43	684	0.21	0.06
5214165	34.9	3.66	2.33	<0.05	0.03	0.02	0.023	0.28	1.2	7.5	2.54	1140	0.88	0.05
5214166	6.0	1.11	3.42	0.05	0.07	0.02	0.007	0.31	6.3	15.0	0.36	253	0.45	0.15
5214167	19.2	1.46	5.06	0.05	0.11	0.02	0.007	0.24	2.9	9.8	0.69	289	0.42	0.21
5214168	187	7.40	14.6	0.20	0.68	0.01	0.040	0.04	4.2	11.0	2.20	1190	0.73	0.12
5214170	155	4.69	9.29	0.18	0.78	0.03	0.030	0.04	3.2	7.9	1.67	573	3.38	0.13

Certified By: Ron Cardinall

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y529210

PROJECT NO: Vault 03-11

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 15, 2011 | DATE RECEIVED: Sep 15, 2011 | DATE REPORTED: Sep 23, 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
5214254	0.13	55.5	536	3.2	12.3	<0.001	0.374	0.52	17.2	0.6	<0.2	70.2	<0.01	0.87
5214255	0.40	70.3	396	3.9	2.7	<0.001	0.080	4.38	15.3	1.0	0.4	269	<0.01	0.03
5214256	0.21	23.2	457	0.9	4.1	0.006	0.151	0.63	6.9	0.4	<0.2	57.3	<0.01	0.05
5214257	0.33	11.3	886	1.3	12.5	0.006	0.191	0.24	8.8	0.3	<0.2	72.2	<0.01	0.02
5214258	0.14	84.4	293	1.0	4.3	<0.001	0.047	0.20	4.6	0.2	<0.2	13.8	<0.01	<0.01
5214259	0.52	52.5	301	>10000	1.8	0.034	>10	237	0.5	196	99.6	37.3	<0.01	0.69
5214260	0.11	118	262	9.1	1.9	<0.001	0.033	0.38	5.0	0.3	0.3	20.8	<0.01	<0.01
5214261	0.12	133	230	2.3	4.9	<0.001	0.025	0.17	5.1	<0.2	<0.2	43.4	<0.01	<0.01
5214262	0.59	20.2	771	0.9	2.0	<0.001	0.277	0.20	4.6	0.6	0.3	118	0.01	0.02
5214263	0.33	18.0	525	1.0	0.4	<0.001	0.139	0.37	13.0	0.5	<0.2	79.8	<0.01	0.03
5214264	0.25	59.5	616	1.9	0.3	<0.001	0.078	0.53	7.2	<0.2	<0.2	158	<0.01	0.01
5214315	0.31	5.2	220	1.3	0.2	<0.001	0.411	0.10	0.9	0.2	<0.2	238	<0.01	0.14
5214316	0.09	70.4	529	4.2	9.3	0.003	0.036	1.29	5.4	0.3	<0.2	21.8	<0.01	0.08
5214317	0.19	41.1	636	1.0	2.7	<0.001	0.034	2.03	10.6	0.3	0.3	45.6	<0.01	<0.01
5214318	0.11	93.6	192	0.5	1.6	<0.001	0.029	0.90	14.2	0.2	<0.2	34.6	<0.01	<0.01
5214319	0.12	15.7	85	3.1	2.3	<0.001	0.118	0.12	12.6	<0.2	<0.2	277	<0.01	<0.01
5214320	0.69	3.7	968	0.9	10.1	<0.001	0.029	0.09	4.1	0.2	0.3	46.1	<0.01	<0.01
5214321	0.31	21.0	233	1.3	0.9	<0.001	0.191	0.26	8.4	0.3	<0.2	177	<0.01	0.02
5214164	0.30	66.2	281	0.4	7.6	<0.001	0.029	0.55	8.9	0.4	0.3	88.1	<0.01	<0.01
5214165	0.09	39.3	965	0.8	4.4	<0.001	0.114	0.60	17.5	1.0	<0.2	257	<0.01	<0.01
5214166	0.09	3.3	263	1.0	6.4	<0.001	0.014	0.11	1.4	<0.2	<0.2	28.0	<0.01	<0.01
5214167	0.25	7.7	429	0.7	5.6	<0.001	0.015	0.13	2.5	<0.2	<0.2	34.2	<0.01	<0.01
5214168	0.53	32.2	708	1.4	1.1	0.002	0.037	0.19	16.5	0.9	0.6	33.1	<0.01	<0.01
5214170	0.49	68.3	364	2.7	1.2	0.001	0.154	0.46	12.8	4.0	0.6	12.5	<0.01	0.02

Certified By: Ron Cardinall

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y529210
PROJECT NO: Vault 03-11

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 15, 2011 | DATE RECEIVED: Sep 15, 2011 | DATE REPORTED: Sep 23, 2011 | SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Ag-OL	Cu-OL	Pb-OL	Zn-OL
Unit:	ppm	%	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	0.5	0.01	0.05	0.05
5214254	<0.1	0.078	0.10	<0.05	182	0.11	9.14	78.6	0.7				
5214255	0.2	0.611	<0.02	0.23	170	0.11	10.7	121	12.1				
5214256	0.1	0.211	0.02	<0.05	81.2	0.15	5.20	44.7	2.3				
5214257	1.3	0.143	0.08	0.38	82.5	0.14	7.93	50.9	1.2				
5214258	0.4	0.110	0.02	0.10	79.2	0.09	4.55	44.2	3.4				
5214259	0.4	<0.005	35.6	3.14	29.1	1.05	3.56	>10000	1.9	166	1.32	1.60	9.52
5214260	0.3	0.115	0.04	0.08	106	0.07	4.74	60.8	4.5				
5214261	0.2	0.114	0.03	0.05	72.2	0.11	2.58	57.5	3.5				
5214262	0.7	0.228	<0.02	0.21	83.7	0.16	6.71	55.5	3.8				
5214263	0.3	0.290	<0.02	0.08	182	0.07	9.84	61.0	5.3				
5214264	0.2	0.185	<0.02	<0.05	81.0	0.09	4.07	47.1	4.9				
5214315	<0.1	0.017	<0.02	0.08	15.3	<0.05	5.79	9.1	0.8				
5214316	1.0	0.006	0.05	0.14	93.8	<0.05	3.00	142	<0.5				
5214317	0.5	0.243	<0.02	0.21	199	0.17	11.4	55.9	14.2				
5214318	<0.1	0.223	<0.02	<0.05	215	0.06	7.54	52.3	5.2				
5214319	<0.1	0.024	<0.02	<0.05	42.5	0.05	6.50	15.8	0.5				
5214320	0.6	0.208	0.03	0.08	61.9	0.09	8.49	66.5	1.8				
5214321	<0.1	0.088	<0.02	<0.05	69.6	0.13	4.79	16.8	1.5				
5214164	0.2	0.491	0.04	0.14	148	<0.05	9.55	43.6	16.4				
5214165	<0.1	0.011	0.03	0.06	58.5	0.09	6.72	34.6	0.8				
5214166	0.5	0.017	0.04	0.06	15.4	<0.05	1.97	29.8	1.9				
5214167	<0.1	0.105	0.03	<0.05	24.7	<0.05	1.62	42.2	2.3				
5214168	0.8	0.623	<0.02	0.41	266	0.24	20.9	88.9	23.6				
5214170	0.6	0.516	0.05	0.48	159	0.20	15.9	119	28.8				

Comments: RDL - Reported Detection Limit

Certified By: Ron Cardinall

Results relate only to the items tested

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 11Y529210
PROJECT NO: Vault 03-11

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Sep 15, 2011 | DATE RECEIVED: Sep 15, 2011 | DATE REPORTED: Sep 23, 2011 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
5214254	0.60	0.009	0.017	0.015
5214255	0.82	0.014	0.014	0.008
5214256	0.62	0.004	0.012	0.007
5214257	0.65	0.003	0.001	<0.005
5214258	0.76	0.003	0.002	<0.005
5214259	0.11	2.17	0.004	<0.005
5214260	0.66	0.002	0.005	0.006
5214261	0.82	0.004	0.003	0.007
5214262	0.94	0.002	<0.001	<0.005
5214263	1.04	0.003	0.012	0.010
5214264	1.34	0.002	0.002	<0.005
5214315	0.83	0.005	<0.001	<0.005
5214316	0.44	0.006	0.003	<0.005
5214317	0.73	0.003	0.006	0.008
5214318	0.60	0.005	0.013	0.013
5214319	0.51	<0.001	0.002	<0.005
5214320	0.79	0.005	<0.001	<0.005
5214321	1.47	0.004	0.005	<0.005
5214164	0.68	0.003	0.007	0.006
5214165	0.87	0.033	0.004	0.008
5214166	1.06	0.002	<0.001	<0.005
5214167	0.71	<0.001	<0.001	<0.005
5214168	0.78	0.001	0.004	0.007
5214170	0.62	0.008	0.005	0.006

Comments: RDL - Reported Detection Limit

Certified By: Ron Cardinall

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES
AGAT WORK ORDER: 11Y529210
PROJECT NO: Vault 03-11
ATTENTION TO: RICHARD BECK

Solid Analysis

RPT Date: Sep 23, 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
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Ag	1	2702075	0.28	0.28	0.0%	< 0.01				80%	120%
Al	1	2702075	4.41	4.48	1.6%	< 0.01				80%	120%
As	1	2702075	13.8	13.5	2.2%	0.3				80%	120%
Au	1	2702075	8.07	7.17	11.8%	< 0.01				80%	120%
B	1	2702075	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2702075	57	58	1.7%	< 1				80%	120%
Be	1	2702075	0.091	0.096	5.3%	< 0.05				80%	120%
Bi	1	2702075	0.634	0.642	1.3%	< 0.01				80%	120%
Ca	1	2702075	4.26	4.29	0.7%	< 0.01				80%	120%
Cd	1	2702075	0.045	0.043	4.5%	< 0.01				80%	120%
Ce	1	2702075	5.94	5.92	0.3%	< 0.01				80%	120%
Co	1	2702075	27.0	26.5	1.9%	< 0.1				80%	120%
Cr	1	2702075	134	137	2.2%	< 0.5				80%	120%
Cs	1	2702075	0.43	0.43	0.0%	< 0.05				80%	120%
Cu	1	2702075	100	103	3.0%	< 0.1	4613	4700	98%	80%	120%
Fe	1	2702075	6.51	6.45	0.9%	< 0.01				80%	120%
Ga	1	2702075	11.3	11.4	0.9%	< 0.05				80%	120%
Ge	1	2702075	0.07	0.07	0.0%	< 0.05				80%	120%
Hf	1	2702075	0.034	0.037	8.5%	< 0.02				80%	120%
Hg	1	2702075	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
In	1	2702075	0.033	0.033	0.0%	< 0.005				80%	120%
K	1	2702075	0.397	0.392	1.3%	< 0.01				80%	120%
La	1	2702075	2.5	2.5	0.0%	< 0.1				80%	120%
Li	1	2702075	19.7	19.7	0.0%	< 0.1				80%	120%
Mg	1	2702075	3.76	3.74	0.5%	< 0.01				80%	120%
Mn	1	2702075	1600	1620	1.2%	< 1				80%	120%
Mo	1	2702075	0.546	0.538	1.5%	< 0.05				80%	120%
Na	1	2702075	0.08	0.08	0.0%	< 0.01				80%	120%
Nb	1	2702075	0.13	0.13	0.0%	< 0.05				80%	120%
Ni	1	2702075	55.5	56.9	2.5%	< 0.2				80%	120%
P	1	2702075	536	550	2.6%	< 10				80%	120%
Pb	1	2702075	3.2	3.2	0.0%	< 0.1				80%	120%
Rb	1	2702075	12.3	12.3	0.0%	< 0.1				80%	120%
Re	1	2702075	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
S	1	2702075	0.374	0.380	1.6%	< 0.005				80%	120%
Sb	1	2702075	0.518	0.514	0.8%	< 0.05				80%	120%
Sc	1	2702075	17.2	17.0	1.2%	< 0.1				80%	120%
Se	1	2702075	0.56	0.53	5.5%	< 0.2				80%	120%
Sn	1	2702075	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Sr	1	2702075	70.2	71.4	1.7%	< 0.2	380	390	97%	80%	120%
Ta	1	2702075	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2702075	0.873	0.889	1.8%	< 0.01				80%	120%
Th	1	2702075	< 0.1	< 0.1	0.0%	< 0.1				80%	120%
Ti	1	2702075	0.078	0.077	1.3%	< 0.005				80%	120%

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y529210

PROJECT NO: Vault 03-11

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Sep 23, 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
Tl	1	2702075	0.10	0.10	0.0%	< 0.02				80%	120%
U	1	2702075	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
V	1	2702075	182	186	2.2%	< 0.5				80%	120%
W	1	2702075	0.11	0.11	0.0%	< 0.05				80%	120%
Y	1	2702075	9.14	9.18	0.4%	< 0.05				80%	120%
Zn	1	2702075	78.6	80.0	1.8%	< 0.5				80%	120%
Zr	1	2702075	0.7	0.7	0.0%	< 0.5				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2702075	0.0089	0.0081	9.4%	< 0.001	0.308	0.321	96%	80%	120%
Pd	1	2702075	0.0168	0.0154	8.7%	< 0.001	0.034	0.037	93%	80%	120%
Pt	1	2702075	0.0149	0.0122	19.9%	< 0.005	0.088	0.090	98%	80%	120%
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Cu	1					< 0.1	4642	4700	98%	80%	120%
Sr	1					< 0.2	364	390	93%	80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2702086	0.005	0.009		< 0.001				80%	120%
Pd	1	2702086	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
Pt	1	2702086	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2702097	0.001	0.002		< 0.001				80%	120%
Pd	1	2702097	0.004	0.005	22.2%	< 0.001				80%	120%
Pt	1	2702097	0.0075	0.0081	7.7%	< 0.005				80%	120%

Certified By: Ron Cardinall

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y529210

PROJECT NO: Vault 03-11

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

Results relate only to the items tested

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y529210

PROJECT NO: Vault 03-11

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
Ag-OL	MIN-200-12032		AA
Cu-OL	MIN-200-12032		AA
Pb-OL	MIN-200-12032		AA
Zn-OL			AA
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pd	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pt	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES

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CLIENT NAME: UTM EXPLORATION SERVICES
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SMITHERS, BC V0J2N0

ATTENTION TO: RICHARD BECK

PROJECT NO:

AGAT WORK ORDER: 11Y527973

SOLID ANALYSIS REVIEWED BY: Ron Cardinall, Certified Assayer - Director - Technical Services (Mining)

DATE REPORTED: Sep 19, 2011

PAGES (INCLUDING COVER): 11

Should you require any information regarding this analysis please contact your client services representative at (905) 501 9998, or at 1-800-856-6261

*NOTES

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

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 11Y527973
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 12, 2011 | DATE RECEIVED: Sep 12, 2011 | DATE REPORTED: Sep 19, 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
5214310	0.04	0.09	1.2	1	<5	11	<0.05	0.09	3.37	0.11	2.10	0.9	93.3	<0.05
5214311	0.11	4.39	0.9	2	<5	23	0.12	0.01	2.91	0.05	3.43	31.3	178	0.05
5214312	3.09	3.16	0.4	86	<5	38	0.11	0.15	9.82	0.64	6.84	26.0	105	0.09
5214313	0.19	2.86	2.2	12	<5	5	0.18	0.02	2.36	0.05	7.66	31.6	22.5	<0.05
5214314	0.08	2.38	2.5	4	<5	53	0.16	0.02	2.21	0.05	5.34	27.5	48.6	1.13
5214241	0.17	1.33	11.7	9	<5	8	0.15	0.21	0.46	0.11	12.5	19.5	76.4	0.78
5214242	0.07	3.30	0.6	1	<5	39	0.43	0.03	3.39	0.07	9.79	18.6	66.1	0.06
5214243	0.03	0.22	168	50	<5	10	0.05	<0.01	4.19	0.02	1.21	6.5	172	0.16
5214244	0.52	1.01	4.4	1	<5	84	0.22	0.05	0.65	0.26	10.7	9.2	21.0	0.30
5214245	0.08	1.69	11.2	<1	<5	48	0.14	0.02	0.15	0.04	2.31	3.4	43.8	0.80
5214246	0.06	0.24	51.9	3	<5	14	0.11	0.01	4.33	0.04	2.40	15.8	113	0.12
5214247	0.10	2.91	1.4	1	<5	71	0.45	0.16	1.04	0.02	9.17	7.9	57.5	0.26
5214248	0.12	0.78	1.6	4	<5	43	0.21	0.14	0.88	0.07	6.54	7.3	43.7	0.09
5214249	0.11	3.09	13.8	2	<5	36	0.22	0.05	0.41	0.04	5.55	13.6	26.7	0.43
5214250	0.15	4.22	14.3	1	<5	12	0.10	0.14	0.29	0.03	4.88	10.4	34.4	0.12
5214251	0.26	0.44	1.7	5	<5	16	<0.05	0.01	19.6	0.56	1.85	2.1	21.4	<0.05
5214252	0.15	1.85	26.3	1	<5	109	0.18	0.03	4.04	0.22	16.4	10.7	24.1	0.28
5214253	0.14	2.04	3.3	4	<5	72	0.26	0.16	0.93	0.04	9.21	8.8	37.2	0.14

Certified By: Ron Cardinall

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Certificate of Analysis

AGAT WORK ORDER: 11Y527973

PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 12, 2011 | DATE RECEIVED: Sep 12, 2011 | DATE REPORTED: Sep 19, 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
5214310	2.5	0.65	0.22	<0.05	<0.02	0.02	0.030	0.04	1.7	0.4	1.73	487	3.22	<0.01
5214311	218	6.22	9.85	0.12	0.06	<0.01	0.021	0.04	1.3	20.6	3.50	1840	0.32	0.02
5214312	6710	4.37	6.80	<0.05	<0.02	0.09	0.036	0.20	3.0	19.1	2.17	3590	0.71	0.02
5214313	226	4.58	7.75	0.14	0.14	<0.01	0.015	0.02	3.4	13.0	2.43	1140	0.57	0.05
5214314	115	3.39	6.07	0.08	0.10	<0.01	0.009	0.44	2.3	9.4	1.84	784	0.42	0.06
5214241	13.3	3.73	7.85	0.12	0.30	0.02	0.028	0.01	6.1	11.3	0.89	524	1.20	0.16
5214242	117	3.81	10.6	0.16	0.40	<0.01	0.026	0.09	4.3	5.5	1.41	897	0.46	0.22
5214243	5.5	1.51	0.50	<0.05	<0.02	<0.01	0.011	0.06	0.5	1.4	1.86	543	1.47	0.03
5214244	22.6	1.62	4.34	0.09	0.33	0.04	0.017	0.07	5.2	8.3	0.47	351	3.36	0.06
5214245	25.6	4.12	5.41	0.10	0.19	0.04	0.041	0.17	1.7	12.7	0.47	223	1.80	0.05
5214246	52.6	2.83	0.65	<0.05	<0.02	<0.01	0.021	0.07	1.1	1.0	0.92	1070	1.38	0.04
5214247	44.0	2.94	7.39	0.10	0.10	<0.01	0.018	0.37	4.2	24.1	2.35	409	2.85	0.03
5214248	53.2	1.68	2.67	0.08	0.33	<0.01	0.012	0.21	2.5	1.5	0.15	93	2.68	0.04
5214249	47.9	6.00	10.0	0.15	0.11	<0.01	0.019	0.23	2.3	23.2	1.61	913	1.52	0.07
5214250	31.8	10.9	11.6	0.20	0.16	<0.01	0.068	0.08	2.0	34.9	1.56	1060	6.27	0.04
5214251	5.0	1.62	1.28	<0.05	<0.02	<0.01	0.006	0.03	1.4	3.3	0.45	1300	11.7	0.01
5214252	62.1	2.80	6.26	0.06	0.03	<0.01	0.015	0.40	9.1	13.4	1.06	1280	0.32	0.04
5214253	33.2	3.61	4.87	0.09	0.07	<0.01	0.011	0.28	4.2	11.0	1.03	755	3.22	0.03

Certified By: Ron Cardinall

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y527973
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 12, 2011 | DATE RECEIVED: Sep 12, 2011 | DATE REPORTED: Sep 19, 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
5214310	0.07	3.3	50	1.8	0.9	<0.001	0.070	0.12	0.7	0.7	<0.2	35.2	<0.01	0.12
5214311	0.16	64.7	487	0.7	1.0	<0.001	0.215	0.18	13.7	0.2	<0.2	37.6	<0.01	0.02
5214312	0.12	34.8	400	4.7	4.1	0.009	0.427	0.11	14.4	0.3	<0.2	151	<0.01	0.23
5214313	0.47	10.4	649	1.2	0.5	<0.001	0.296	0.19	9.1	0.5	0.2	86.8	<0.01	0.06
5214314	0.41	29.0	658	0.8	27.5	0.001	0.181	0.27	7.2	0.4	<0.2	63.6	<0.01	0.06
5214241	0.77	7.2	557	17.5	0.6	<0.001	0.071	1.65	10.6	1.5	0.7	11.8	<0.01	0.18
5214242	0.59	7.1	958	2.9	0.8	<0.001	0.380	0.24	10.8	0.8	0.4	207	<0.01	0.01
5214243	0.08	21.5	<10	0.8	1.6	<0.001	0.131	0.26	7.7	<0.2	<0.2	87.6	<0.01	<0.01
5214244	0.46	17.8	451	2.2	3.5	0.001	0.051	0.32	4.8	0.3	0.3	31.1	<0.01	0.02
5214245	0.32	2.1	104	4.0	5.1	0.001	0.050	0.43	7.3	0.3	0.4	18.4	<0.01	0.02
5214246	0.09	18.0	113	1.2	2.5	<0.001	0.102	0.15	10.4	<0.2	<0.2	76.2	<0.01	<0.01
5214247	0.35	17.7	637	3.5	13.9	0.011	0.458	0.16	7.4	1.4	0.4	12.6	<0.01	0.28
5214248	1.14	4.9	523	5.0	7.0	0.004	0.403	0.16	4.3	0.7	0.4	49.2	<0.01	0.27
5214249	0.39	14.2	510	4.6	8.5	0.001	0.142	0.30	13.4	0.8	0.2	7.1	<0.01	0.05
5214250	0.33	5.0	285	5.3	2.9	0.013	1.63	0.48	8.8	1.0	1.2	15.7	<0.01	0.06
5214251	0.26	4.8	918	63.0	1.1	0.007	1.93	0.12	2.6	0.3	<0.2	225	<0.01	<0.01
5214252	0.06	3.8	741	5.9	9.8	<0.001	0.231	0.95	4.8	0.4	<0.2	176	<0.01	<0.01
5214253	0.93	9.4	759	7.1	7.8	0.004	0.244	0.11	4.6	0.5	0.3	54.8	<0.01	0.42

Certified By: Ron Cardinall

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y527973
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Sep 12, 2011 | DATE RECEIVED: Sep 12, 2011 | DATE REPORTED: Sep 19, 2011 | SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr
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
5214310	0.1	<0.005	<0.02	<0.05	9.4	<0.05	3.26	8.1	<0.5
5214311	<0.1	0.245	<0.02	0.06	201	<0.05	7.32	59.3	1.3
5214312	<0.1	<0.005	0.04	0.10	116	<0.05	5.00	37.3	<0.5
5214313	0.2	0.295	<0.02	0.10	129	0.34	8.69	44.7	4.6
5214314	0.3	0.254	0.21	0.07	112	0.14	6.08	46.8	3.3
5214241	1.4	0.281	0.02	0.64	93.2	0.37	13.6	59.0	8.3
5214242	0.5	0.259	<0.02	0.27	170	0.07	8.59	47.4	15.1
5214243	<0.1	<0.005	<0.02	<0.05	20.1	0.12	2.99	14.4	<0.5
5214244	1.1	0.106	0.06	0.30	53.3	23.5	8.06	28.4	8.7
5214245	0.7	0.247	0.03	0.57	59.7	0.17	1.11	42.4	4.5
5214246	0.1	<0.005	<0.02	<0.05	20.5	0.05	5.35	23.7	<0.5
5214247	1.5	0.159	0.11	0.33	73.8	0.20	7.99	63.9	2.6
5214248	0.4	0.256	0.05	0.21	31.5	0.22	11.8	24.6	8.8
5214249	1.4	0.237	0.04	0.52	138	0.18	10.9	37.2	3.4
5214250	0.4	0.195	<0.02	0.58	112	0.12	6.88	33.3	4.2
5214251	0.2	0.013	<0.02	0.40	11.8	<0.05	5.81	59.5	<0.5
5214252	1.0	0.006	0.09	0.11	70.0	<0.05	6.06	52.5	1.0
5214253	1.3	0.163	0.05	0.27	40.6	0.24	7.05	74.3	1.7

Comments: RDL - Reported Detection Limit

Certified By: Ron Cardinall

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Certificate of Analysis

AGAT WORK ORDER: 11Y527973

PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Sep 12, 2011 | DATE RECEIVED: Sep 12, 2011 | DATE REPORTED: Sep 19, 2011 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
5214310	0.74	0.004	<0.001	<0.005
5214311	1.86	0.004	0.008	0.007
5214312	0.75	0.086	0.005	0.005
5214313	0.65	0.016	<0.001	<0.005
5214314	0.71	0.005	0.002	<0.005
5214241	0.64	0.008	<0.001	<0.005
5214242	0.71	0.001	0.001	<0.005
5214243	0.84	0.048	<0.001	<0.005
5214244	0.15	0.003	<0.001	<0.005
5214245	0.71	0.004	<0.001	<0.005
5214246	0.73	0.008	0.001	<0.005
5214247	0.69	0.001	<0.001	<0.005
5214248	0.72	0.004	<0.001	<0.005
5214249	0.63	0.003	<0.001	<0.005
5214250	0.68	0.005	<0.001	<0.005
5214251	0.56	0.006	<0.001	<0.005
5214252	0.54	0.002	<0.001	<0.005
5214253	0.60	0.009	<0.001	<0.005

Comments: RDL - Reported Detection Limit

Certified By: Ron Cardinall

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y527973

PROJECT NO:

ATTENTION TO: RICHARD BECK

Solid Analysis

RPT Date: Sep 19, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2692721	0.004	0.002		< 0.001	0.331	0.321	103%	80%	120%
Pd	1	2692721	< 0.001	< 0.001	0.0%	< 0.001	0.039	0.037	105%	80%	120%
Pt	1	2692721	< 0.005	< 0.005	0.0%	< 0.005	0.094	0.090	105%	80%	120%
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Ag	1	2692721	0.044	0.045	2.2%	0.01				80%	120%
Al	1	2692721	0.09	0.09	0.0%	< 0.01				80%	120%
As	1	2692721	1.24	1.39	11.4%	0.4				80%	120%
Au	1	2692721	1	1	0.0%	< 0.01				80%	120%
B	1	2692721	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2692721	11	11	0.0%	< 1				80%	120%
Be	1	2692721	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Bi	1	2692721	0.09	0.09	0.0%	< 0.01				80%	120%
Ca	1	2692721	3.37	3.55	5.2%	< 0.01				80%	120%
Cd	1	2692721	0.11	0.11	0.0%	< 0.01				80%	120%
Ce	1	2692721	2.10	2.04	2.9%	< 0.01				80%	120%
Co	1	2692721	0.85	0.84	1.2%	< 0.1				80%	120%
Cr	1	2692721	93.3	100	6.9%	< 0.5				80%	120%
Cs	1	2692721	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Cu	1	2692721	2.49	2.58	3.6%	< 0.1	3851	4700	82%	80%	120%
Fe	1	2692721	0.653	0.678	3.8%	< 0.01				80%	120%
Ga	1	2692721	0.22	0.22	0.0%	< 0.05				80%	120%
Ge	1	2692721	< 0.05	< 0.05	0.0%	0.06				80%	120%
Hf	1	2692721	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
Hg	1	2692721	0.02	0.01		< 0.01				80%	120%
In	1	2692721	0.030	0.029	3.4%	< 0.005				80%	120%
K	1	2692721	0.04	0.04	0.0%	< 0.01				80%	120%
La	1	2692721	1.7	1.7	0.0%	< 0.1				80%	120%
Li	1	2692721	0.4	0.4	0.0%	< 0.1				80%	120%
Mg	1	2692721	1.73	1.76	1.7%	< 0.01				80%	120%
Mn	1	2692721	487	496	1.8%	< 1				80%	120%
Mo	1	2692721	3.22	3.42	6.0%	< 0.05	360	280	129%	80%	120%
Na	1	2692721	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Nb	1	2692721	0.07	0.07	0.0%	< 0.05				80%	120%
Ni	1	2692721	3.30	3.47	5.0%	< 0.2				80%	120%
P	1	2692721	50	48	4.1%	< 10				80%	120%
Pb	1	2692721	1.78	1.75	1.7%	< 0.1				80%	120%
Rb	1	2692721	0.9	0.9	0.0%	< 0.1				80%	120%
Re	1	2692721	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
S	1	2692721	0.0704	0.0739	4.9%	< 0.005				80%	120%
Sb	1	2692721	0.119	0.126	5.7%	< 0.05				80%	120%
Sc	1	2692721	0.7	0.7	0.0%	< 0.1				80%	120%
Se	1	2692721	0.7	0.7	0.0%	< 0.2				80%	120%
Sn	1	2692721	< 0.2	< 0.2	0.0%	< 0.2				80%	120%

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES
AGAT WORK ORDER: 11Y527973
PROJECT NO:
ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Sep 19, 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
Sr	1	2692721	35.2	35.1	0.3%	1.5	299	390	77%	80%	120%
Ta	1	2692721	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2692721	0.12	0.12	0.0%	< 0.01				80%	120%
Th	1	2692721	0.1	0.1	0.0%	< 0.1				80%	120%
Ti	1	2692721	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Tl	1	2692721	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2692721	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
V	1	2692721	9.42	10.2	8.0%	< 0.5				80%	120%
W	1	2692721	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Y	1	2692721	3.26	3.22	1.2%	< 0.05		7		80%	120%
Zn	1	2692721	8.11	8.38	3.3%	< 0.5				80%	120%
Zr	1	2692721	< 0.5	< 0.5	0.0%	< 0.5				80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2692732	0.001	0.003		< 0.001				80%	120%
Pd	1	2692732	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
Pt	1	2692732	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Ag	1	2692736	0.26	0.26	0.0%	< 0.01				80%	120%
Al	1	2692736	0.44	0.44	0.0%	< 0.01				80%	120%
As	1	2692736	1.7	1.7	0.0%	< 0.1				80%	120%
Au	1	2692736	5	5	0.0%	< 0.01				80%	120%
B	1	2692736	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2692736	16	16	0.0%	< 1				80%	120%
Be	1	2692736	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Bi	1	2692736	0.01	0.01	0.0%	< 0.01				80%	120%
Ca	1	2692736	19.6	19.5	0.5%	< 0.01				80%	120%
Cd	1	2692736	0.56	0.56	0.0%	< 0.01				80%	120%
Ce	1	2692736	1.85	1.75	5.6%	< 0.01				80%	120%
Co	1	2692736	2.1	2.1	0.0%	< 0.1				80%	120%
Cr	1	2692736	21.4	20.9	2.4%	< 0.5				80%	120%
Cs	1	2692736	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Cu	1	2692736	5.0	5.4	7.7%	< 0.1				80%	120%
Fe	1	2692736	1.62	1.67	3.0%	< 0.01				80%	120%
Ga	1	2692736	1.28	1.21	5.6%	< 0.05				80%	120%
Ge	1	2692736	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Hf	1	2692736	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
Hg	1	2692736	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
In	1	2692736	0.006	0.006	0.0%	< 0.005				80%	120%
K	1	2692736	0.03	0.03	0.0%	< 0.01				80%	120%
La	1	2692736	1.39	1.33	4.4%	< 0.1				80%	120%
Li	1	2692736	3.29	3.20	2.8%	< 0.1				80%	120%
Mg	1	2692736	0.45	0.45	0.0%	< 0.01				80%	120%
Mn	1	2692736	1300	1230	5.5%	< 1				80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y527973

PROJECT NO:

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Sep 19, 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
Mo	1	2692736	11.7	11.3	3.5%	< 0.05				80%	120%
Na	1	2692736	0.01	0.01	0.0%	< 0.01				80%	120%
Nb	1	2692736	0.263	0.270	2.6%	< 0.05				80%	120%
Ni	1	2692736	4.8	4.8	0.0%	< 0.2				80%	120%
P	1	2692736	918	894	2.6%	< 10				80%	120%
Pb	1	2692736	63.0	62.3	1.1%	< 0.1				80%	120%
Rb	1	2692736	1.1	1.1	0.0%	< 0.1				80%	120%
Re	1	2692736	0.007	0.007	0.0%	< 0.001				80%	120%
S	1	2692736	1.93	1.94	0.5%	< 0.005				80%	120%
Sb	1	2692736	0.12	0.12	0.0%	< 0.05				80%	120%
Sc	1	2692736	2.63	2.53	3.9%	< 0.1				80%	120%
Se	1	2692736	0.3	0.3	0.0%	< 0.2				80%	120%
Sn	1	2692736	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Sr	1	2692736	225	225	0.0%	< 0.2				80%	120%
Ta	1	2692736	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2692736	< 0.01	0.01		< 0.01				80%	120%
Th	1	2692736	0.2	0.2	0.0%	< 0.1				80%	120%
Ti	1	2692736	0.013	0.013	0.0%	< 0.005				80%	120%
Tl	1	2692736	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2692736	0.40	0.39	2.5%	< 0.05				80%	120%
V	1	2692736	11.8	11.9	0.8%	< 0.5				80%	120%
W	1	2692736	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Y	1	2692736	5.81	5.80	0.2%	< 0.05		7		80%	120%
Zn	1	2692736	59.5	59.0	0.8%	< 0.5				80%	120%
Zr	1	2692736	< 0.5	< 0.5	0.0%	< 0.5				80%	120%

Certified By: Ron Cardinall

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y527973

PROJECT NO:

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

Results relate only to the items tested

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y527973

PROJECT NO:

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
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pd	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pt	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES

Results relate only to the items tested

AGAT Laboratories

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: Vault

AGAT WORK ORDER: 11Y521103

SOLID ANALYSIS REVIEWED BY: David Tye, General Manager, Mining Operations

DATE REPORTED: Sep 06, 2011

PAGES (INCLUDING COVER): 7

Should you require any information regarding this analysis please contact your client services representative at (905) 501 9998, or at 1-800-856-6261

*NOTES

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

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y521103
PROJECT NO: Vault

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Aug 22, 2011 | DATE RECEIVED: Aug 19, 2011 | DATE REPORTED: Sep 06, 2011 | SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description RDL:	0.01	0.01	0.1	0.01	5	1	0.05	0.01	0.01	0.01	0.01	0.1	0.5	0.05
5214239	70.9	0.83	455	0.50	<5	22	0.16	29.5	1.19	264	15.4	14.3	19.3	0.33
5214240	0.59	0.46	52.8	0.28	<5	28	0.09	0.18	5.84	1.49	3.90	31.4	72.9	0.27

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
5214239	4670	8.14	5.50	0.13	0.26	7.79	3.01	0.08	6.2	6.4	0.67	409	21.9	0.05
5214240	23.3	4.89	1.51	0.07	<0.02	0.12	0.065	0.08	1.6	5.6	2.14	1160	5.29	0.05

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
5214239	1.08	35.1	296	7150	3.6	0.017	8.39	124	2.9	72.9	59.8	33.3	<0.01	0.33
5214240	0.10	35.4	121	32.5	2.3	0.006	0.657	1.14	20.5	3.2	0.3	166	<0.01	0.04

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	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
5214239	1.2	0.070	13.3	1.11	41.6	0.80	5.82	>10000	6.7	2.32
5214240	<0.1	<0.005	0.08	<0.05	49.4	0.22	7.47	48.2	<0.5	

Comments: RDL - Reported Detection Limit

Certified By:

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y521103
PROJECT NO: Vault

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Aug 22, 2011 | DATE RECEIVED: Aug 19, 2011 | DATE REPORTED: Sep 06, 2011 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
5214239	0.12	0.942	0.003	<0.005
5214240	0.53	0.426	0.018	<0.005

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES
AGAT WORK ORDER: 11Y521103
PROJECT NO: Vault
ATTENTION TO: RICHARD BECK

Solid Analysis

RPT Date: Sep 06, 2011		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2635390	0.426	0.490	14.0%	0.003	0.343	0.321	107%	80%	120%
Pd	1	2635390	0.018	0.019	5.4%	0.002	0.041	0.037	110%	80%	120%
Pt	1	2635390	< 0.005	< 0.005	0.0%	< 0.005	0.099	0.090	110%	80%	120%
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Ag	1	2635390	< 0.01	< 0.01	0.0%	< 0.01	38	35	107%	80%	120%
Al	1	2635390	0.455	0.448	1.6%	< 0.01				80%	120%
As	1	2635390	52.8	52.7	0.2%	0.3				80%	120%
Au	1	2635390	0.43	0.49	13.0%	< 0.01	0.343	0.321	107%	80%	120%
B	1	2635390	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2635390	28	28	0.0%	< 1				80%	120%
Be	1	2635390	0.089	0.098	9.6%	< 0.05				80%	120%
Bi	1	2635390	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Ca	1	2635390	5.84	6.06	3.7%	< 0.01				80%	120%
Cd	1	2635390	0.215	0.191	11.8%	< 0.01				80%	120%
Ce	1	2635390	3.90	3.75	3.9%	< 0.01				80%	120%
Co	1	2635390	31.4	32.0	1.9%	< 0.1				80%	120%
Cr	1	2635390	72.9	71.9	1.4%	< 0.5				80%	120%
Cs	1	2635390	0.27	0.27	0.0%	< 0.05				80%	120%
Cu	1	2635390	23.3	21.5	8.0%	< 0.1	4580	5000	92%	80%	120%
Fe	1	2635390	4.89	4.96	1.4%	< 0.01				80%	120%
Ga	1	2635390	1.51	1.48	2.0%	< 0.05				80%	120%
Ge	1	2635390	0.07	0.08	13.3%	0.08				80%	120%
Hf	1	2635390	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
Hg	1	2635390	0.32	0.12		< 0.01				80%	120%
In	1	2635390	0.065	0.051	24.1%	< 0.005				80%	120%
K	1	2635390	0.08	0.08	0.0%	< 0.01				80%	120%
La	1	2635390	1.59	1.52	4.5%	< 0.1				80%	120%
Li	1	2635390	5.64	5.88	4.2%	< 0.1				80%	120%
Mg	1	2635390	2.14	2.12	0.9%	< 0.01				80%	120%
Mn	1	2635390	1160	1130	2.6%	< 1				80%	120%
Mo	1	2635390	5.29	5.26	0.6%	< 0.05				80%	120%
Na	1	2635390	0.05	0.05	0.0%	< 0.01				80%	120%
Nb	1	2635390	0.097	0.088	9.7%	< 0.05				80%	120%
Ni	1	2635390	35.4	35.0	1.1%	< 0.2				80%	120%
P	1	2635390	121	124	2.4%	< 10				80%	120%
Pb	1	2635390	1.3	1.0	26.1%	0.2				80%	120%
Rb	1	2635390	2.32	2.36	1.7%	< 0.1				80%	120%
Re	1	2635390	0.006	0.005	18.2%	< 0.001				80%	120%
S	1	2635390	0.657	0.648	1.4%	< 0.005				80%	120%
Sb	1	2635390	1.65	1.56	5.6%	< 0.05				80%	120%
Sc	1	2635390	20.5	21.2	3.4%	< 0.1				80%	120%
Se	1	2635390	3.15	2.79	12.1%	< 0.2				80%	120%
Sn	1	2635390	< 0.2	< 0.2	0.0%	< 0.2				80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y521103

PROJECT NO: Vault

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date: Sep 06, 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
Sr	1	2635390	166	163	1.8%	< 0.2				80%	120%
Ta	1	2635390	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2635390	0.040	0.035	13.3%	< 0.01				80%	120%
Th	1	2635390	< 0.1	< 0.1	0.0%	< 0.1				80%	120%
Ti	1	2635390	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Tl	1	2635390	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2635390	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
V	1	2635390	49.4	49.3	0.2%	< 0.5				80%	120%
W	1	2635390	0.22	0.23	4.4%	< 0.05				80%	120%
Y	1	2635390	7.47	7.48	0.1%	< 0.05		7		80%	120%
Zn	1	2635390	48.2	50.8	5.3%	< 0.5				80%	120%
Zr	1	2635390	< 0.5	< 0.5	0.0%	< 0.5				80%	120%

Certified By:

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y521103

PROJECT NO: Vault

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

Results relate only to the items tested

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y521103

PROJECT NO: Vault

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
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
Pd	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pt	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES

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

ATTENTION TO: RICHARD BECK

PROJECT NO:

AGAT WORK ORDER: 11Y519089

SOLID ANALYSIS REVIEWED BY: Ron Cardinall, Certified Assayer - Director - Technical Services (Mining)

DATE REPORTED: Aug 26, 2011

PAGES (INCLUDING COVER): 11

Should you require any information regarding this analysis please contact your client services representative at (905) 501 9998, or at 1-800-856-6261

*NOTES

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Certificate of Analysis

AGAT WORK ORDER: 11Y519089

PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Aug 15, 2011 | DATE RECEIVED: Aug 15, 2011 | DATE REPORTED: Aug 25, 2011 | SAMPLE TYPE: Rock

Analyte:	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Sample Description RDL:	0.01	0.01	0.1	0.01	5	1	0.05	0.01	0.01	0.01	0.01	0.1	0.5	0.05
5214214	0.10	2.71	1.1	<0.01	<5	8	0.20	<0.01	2.66	0.04	6.81	30.3	202	1.24
5214215	0.03	1.68	1.5	<0.01	<5	40	0.08	<0.01	6.29	0.09	9.73	33.4	91.0	0.31
5214216	0.03	1.21	40.4	<0.01	<5	48	0.08	<0.01	5.52	0.03	5.90	25.6	50.2	0.25
5214217	0.15	0.04	11.3	<0.01	<5	4	0.09	0.10	6.37	0.75	3.41	7.2	48.4	<0.05
5214218	0.97	0.30	150	0.04	<5	27	0.13	0.33	0.11	0.98	2.24	19.8	104	0.10
5214219	0.12	0.62	8.2	<0.01	<5	28	0.15	<0.01	1.08	0.08	4.84	17.1	117	0.14
5214220	0.06	0.92	1.4	<0.01	<5	38	0.08	0.02	0.93	0.05	8.04	5.0	68.6	0.35
5214221	0.05	0.51	34.2	0.24	<5	44	0.06	0.01	6.09	0.05	2.79	21.6	84.0	0.48
5214222	1.43	2.07	216	0.88	<5	20	0.13	0.03	4.24	0.87	2.28	34.7	196	1.78
5214223	0.26	3.05	2.4	<0.01	<5	14	<0.05	<0.01	1.95	0.07	0.55	4.2	148	0.15
5214224	13.2	1.61	0.3	0.03	<5	3	<0.05	<0.01	3.67	0.44	0.19	0.5	36.0	<0.05
5214225	0.69	0.53	22.3	<0.01	<5	49	0.15	0.09	7.32	0.19	6.29	23.6	59.9	0.11
5214226	0.11	2.08	5.5	<0.01	<5	123	0.16	0.13	0.56	0.03	11.3	4.9	96.6	0.34
5214227	0.06	0.71	10.2	<0.01	<5	37	0.10	0.03	2.50	0.04	6.55	9.8	182	0.20
5214228	0.02	0.02	<0.1	<0.01	<5	11	0.08	<0.01	16.6	0.32	1.28	1.1	20.7	<0.05
5214229	0.03	0.05	0.9	<0.01	<5	61	<0.05	<0.01	0.84	0.10	2.05	2.0	235	<0.05
5214230	<0.01	0.02	0.7	<0.01	<5	9	0.08	<0.01	14.7	0.22	2.01	2.0	28.5	<0.05
5214231	0.01	0.03	<0.1	<0.01	<5	7	<0.05	<0.01	19.5	0.76	2.80	0.7	33.3	<0.05
5214232	0.09	0.02	<0.1	<0.01	<5	7	0.09	<0.01	12.8	0.45	2.47	0.9	16.7	<0.05
5214233	0.14	1.95	1.2	<0.01	6	41	0.07	0.02	2.12	0.11	4.37	39.1	156	0.23
5214234	0.19	0.03	<0.1	<0.01	<5	9	0.06	0.19	13.3	0.56	1.44	1.4	14.4	<0.05
5214235	0.06	0.72	89.4	0.06	5	35	0.12	<0.01	4.34	0.09	13.6	34.2	68.2	0.91
5214236	0.04	0.93	67.2	0.06	6	42	0.13	0.02	5.38	0.09	12.8	31.2	66.5	0.98
5214237	2.36	2.01	2.5	<0.01	10	20	0.26	0.03	3.85	1.01	13.3	22.8	116	0.12
5214238	5.94	1.70	0.5	0.01	<5	2	<0.05	0.07	1.76	0.31	0.66	2.3	156	<0.05

Certified By: Ron Cardinall

Results relate only to the items tested

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 11Y519089
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Aug 15, 2011 | DATE RECEIVED: Aug 15, 2011 | DATE REPORTED: Aug 25, 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
5214214	142	3.90	9.76	0.20	0.29	<0.01	0.023	0.08	2.8	23.2	2.18	757	0.31	0.03
5214215	4.9	6.67	7.34	0.09	<0.02	<0.01	0.052	0.04	4.0	36.0	3.49	1440	0.37	0.08
5214216	10.3	4.88	4.29	0.07	<0.02	<0.01	0.052	0.06	2.5	21.5	2.97	1500	0.42	0.07
5214217	10.6	2.22	0.23	<0.05	<0.02	0.05	<0.005	0.02	2.2	0.7	3.25	1310	2.36	<0.01
5214218	122	9.62	0.65	0.16	<0.02	0.13	0.037	0.03	1.3	0.2	0.05	108	13.2	<0.01
5214219	21.4	1.13	1.76	0.10	0.08	0.08	<0.005	0.25	2.3	4.6	0.31	193	1.91	<0.01
5214220	9.5	1.37	5.29	0.10	0.06	<0.01	0.008	0.15	3.7	17.7	0.53	253	0.94	0.12
5214221	12.5	3.57	1.49	<0.05	<0.02	<0.01	0.020	0.20	1.1	3.5	2.57	1040	1.10	0.02
5214222	58.7	4.66	10.0	0.12	0.25	0.11	0.053	0.09	0.9	14.9	2.27	1160	0.92	0.08
5214223	>10000	6.90	1.36	0.06	0.04	<0.01	0.005	0.07	0.2	1.9	3.42	905	0.13	0.05
5214224	>10000	5.83	0.59	<0.05	0.02	<0.01	<0.005	0.02	<0.1	0.1	0.18	169	0.61	0.05
5214225	852	3.40	2.14	<0.05	<0.02	<0.01	0.049	0.20	3.0	3.7	1.77	1130	4.07	0.03
5214226	46.0	3.85	7.84	0.14	0.05	<0.01	0.018	0.31	5.3	12.1	1.16	521	2.76	0.09
5214227	12.4	2.40	2.78	0.09	0.06	<0.01	0.020	0.09	3.4	10.1	1.18	535	2.37	0.04
5214228	11.4	0.33	0.11	<0.05	<0.02	<0.01	<0.005	<0.01	2.0	0.7	7.07	519	1.10	<0.01
5214229	8.4	0.61	0.22	0.08	<0.02	<0.01	<0.005	0.02	2.2	0.5	0.13	106	3.14	<0.01
5214230	3.4	1.32	0.08	<0.05	<0.02	<0.01	0.010	<0.01	2.2	1.0	8.66	1000	0.55	<0.01
5214231	6.7	0.17	0.10	<0.05	<0.02	<0.01	<0.005	0.01	4.5	0.2	2.23	346	0.47	<0.01
5214232	10.5	0.28	0.12	<0.05	<0.02	0.01	<0.005	<0.01	4.3	0.9	6.30	518	0.41	<0.01
5214233	281	4.36	5.06	0.12	0.22	<0.01	0.015	0.13	1.9	9.7	1.59	599	21.7	0.10
5214234	1.6	0.68	0.17	<0.05	<0.02	<0.01	<0.005	0.01	1.9	0.8	8.22	1000	2.45	<0.01
5214235	81.6	5.15	3.13	0.09	<0.02	0.01	0.067	0.18	5.3	3.6	2.06	1170	0.86	0.13
5214236	55.9	4.81	3.65	0.07	<0.02	<0.01	0.067	0.26	4.7	5.1	1.75	1130	0.78	0.11
5214237	8830	5.12	10.5	0.18	0.96	0.12	0.054	0.02	5.2	6.6	0.97	582	1.09	0.17
5214238	>10000	2.49	0.79	0.07	0.10	0.03	<0.005	<0.01	0.3	1.2	1.00	248	0.40	<0.01

Certified By: Ron Cardinall

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Certificate of Analysis

AGAT WORK ORDER: 11Y519089

PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Aug 15, 2011 | DATE RECEIVED: Aug 15, 2011 | DATE REPORTED: Aug 25, 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
5214214	0.75	78.0	359	0.5	4.9	<0.001	0.032	0.73	10.6	0.5	0.5	93.5	<0.01	<0.01
5214215	0.10	43.6	527	1.1	1.1	<0.001	0.079	1.48	23.6	0.3	<0.2	122	<0.01	<0.01
5214216	0.07	44.8	495	0.9	1.6	<0.001	0.148	0.40	23.8	0.3	<0.2	124	<0.01	<0.01
5214217	0.06	19.9	66	18.4	0.5	<0.001	0.455	1.21	6.1	0.9	<0.2	49.9	<0.01	0.02
5214218	0.08	84.6	840	55.7	0.9	<0.001	0.061	13.2	3.3	3.0	<0.2	23.7	<0.01	0.18
5214219	0.16	32.7	401	4.0	6.2	<0.001	0.040	0.35	5.1	0.2	<0.2	9.1	<0.01	<0.01
5214220	0.28	3.8	354	1.7	4.0	<0.001	0.023	0.22	3.0	0.3	<0.2	20.3	<0.01	<0.01
5214221	0.06	37.7	54	0.6	4.7	<0.001	0.261	0.33	13.0	0.9	<0.2	171	<0.01	<0.01
5214222	0.09	65.8	165	14.5	2.8	0.010	0.955	1.77	34.8	1.3	0.2	24.3	<0.01	<0.01
5214223	<0.05	6.6	362	0.3	0.3	<0.001	0.597	<0.05	4.8	1.8	<0.2	13.7	<0.01	<0.01
5214224	<0.05	0.9	101	2.8	<0.1	<0.001	3.89	0.13	0.4	14.9	<0.2	16.9	<0.01	<0.01
5214225	0.10	44.8	338	7.9	7.3	0.005	0.878	0.44	11.1	1.5	<0.2	234	<0.01	0.18
5214226	0.47	7.5	613	3.5	12.1	0.007	0.168	0.80	8.6	0.6	0.5	28.5	<0.01	0.09
5214227	0.24	18.2	253	2.3	3.6	0.002	0.105	0.36	7.9	<0.2	<0.2	49.9	<0.01	0.01
5214228	0.10	4.7	343	4.4	0.3	<0.001	0.224	0.18	0.6	0.2	<0.2	204	<0.01	<0.01
5214229	0.06	9.3	181	0.8	0.7	<0.001	0.027	0.16	0.8	<0.2	<0.2	9.7	<0.01	<0.01
5214230	0.07	4.5	176	2.0	0.2	<0.001	0.204	0.08	3.0	0.2	<0.2	122	<0.01	<0.01
5214231	0.09	3.4	147	1.8	0.4	<0.001	0.267	0.24	0.7	0.3	<0.2	165	<0.01	0.01
5214232	0.09	4.0	116	4.6	0.3	<0.001	0.178	0.92	0.7	0.3	<0.2	145	<0.01	0.02
5214233	0.21	43.4	390	1.1	2.8	0.019	0.717	0.58	10.0	1.6	0.2	30.6	<0.01	<0.01
5214234	0.09	3.7	158	19.4	0.4	0.002	0.195	0.56	0.7	0.3	<0.2	116	<0.01	0.05
5214235	0.09	53.9	470	0.9	5.7	0.002	0.138	1.66	29.4	0.5	<0.2	88.9	<0.01	0.01
5214236	0.09	47.0	654	0.7	7.4	0.001	0.142	0.67	28.1	0.6	<0.2	105	<0.01	<0.01
5214237	1.32	39.3	412	0.7	0.5	<0.001	0.157	0.30	17.5	2.7	0.7	35.2	<0.01	<0.01
5214238	0.15	4.2	294	0.1	<0.1	<0.001	2.00	0.22	1.2	1.7	<0.2	130	<0.01	0.03

Certified By: Ron Cardinall

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Certificate of Analysis

AGAT WORK ORDER: 11Y519089
PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

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

DATE SAMPLED: Aug 15, 2011 | DATE RECEIVED: Aug 15, 2011 | DATE REPORTED: Aug 25, 2011 | SAMPLE TYPE: Rock

Analyte:	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Cu-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
5214214	0.2	0.518	0.03	0.16	149	0.06	10.1	46.6	8.7	
5214215	0.2	0.020	<0.02	<0.05	167	0.09	8.45	83.2	0.6	
5214216	0.2	<0.005	<0.02	<0.05	86.1	0.16	7.37	72.7	<0.5	
5214217	0.1	<0.005	0.03	0.18	15.3	0.10	7.95	146	<0.5	
5214218	0.5	<0.005	0.02	1.86	20.1	0.16	3.58	609	1.0	
5214219	0.2	0.089	0.08	0.29	36.6	0.27	7.28	26.0	1.7	
5214220	0.2	0.053	0.03	0.07	25.2	0.07	2.43	56.3	1.6	
5214221	<0.1	<0.005	<0.02	<0.05	41.3	0.16	6.30	39.5	<0.5	
5214222	0.1	0.239	0.12	0.41	171	0.29	10.1	113	7.0	
5214223	<0.1	0.316	<0.02	0.06	303	<0.05	1.85	85.8	1.2	1.94
5214224	<0.1	0.106	<0.02	0.11	61.6	<0.05	0.30	9.9	0.7	24.49
5214225	0.4	<0.005	0.06	0.10	37.6	0.11	7.42	73.5	<0.5	
5214226	1.0	0.233	0.10	0.26	63.0	0.32	7.29	51.3	0.9	
5214227	1.0	0.036	0.03	0.23	44.6	0.26	3.95	35.7	2.0	
5214228	<0.1	<0.005	<0.02	0.18	12.0	0.17	4.78	16.4	<0.5	
5214229	0.2	<0.005	<0.02	0.31	5.6	0.17	3.26	10.0	<0.5	
5214230	<0.1	<0.005	<0.02	0.07	24.1	0.31	6.25	23.5	<0.5	
5214231	<0.1	<0.005	<0.02	0.21	9.0	0.07	9.50	15.2	<0.5	
5214232	0.1	<0.005	<0.02	0.15	11.9	0.17	8.65	16.2	<0.5	
5214233	0.2	0.324	0.03	0.12	152	0.13	9.21	45.0	5.6	
5214234	<0.1	<0.005	<0.02	0.11	13.1	0.15	5.56	35.6	<0.5	
5214235	0.3	<0.005	0.05	<0.05	61.1	0.14	12.4	63.3	<0.5	
5214236	0.2	<0.005	0.05	<0.05	62.3	0.15	14.4	53.1	0.6	
5214237	0.4	0.632	0.03	0.19	197	0.11	18.1	44.6	38.5	
5214238	<0.1	0.357	<0.02	<0.05	90.8	<0.05	0.89	20.4	2.9	16.19

Comments: RDL - Reported Detection Limit

Certified By: Ron Cardinall

Results relate only to the items tested

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Certificate of Analysis

AGAT WORK ORDER: 11Y519089

PROJECT NO:

CLIENT NAME: UTM EXPLORATION SERVICES

ATTENTION TO: RICHARD BECK

Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)

DATE SAMPLED: Aug 15, 2011 | DATE RECEIVED: Aug 15, 2011 | DATE REPORTED: Aug 25, 2011 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Au	Pd	Pt
Unit:	kg	ppm	ppm	ppm
Sample Description RDL:	0.01	0.001	0.001	0.005
5214214	0.57	0.001	0.011	0.005
5214215	0.47	0.032	0.005	0.009
5214216	0.62	0.026	0.003	0.007
5214217	0.75	0.011	<0.001	<0.005
5214218	0.67	0.048	<0.001	<0.005
5214219	0.53	0.001	0.004	0.008
5214220	0.49	<0.001	0.001	<0.005
5214221	0.57	0.135	0.002	<0.005
5214222	0.59	1.03	0.018	0.008
5214223	0.66	0.020	0.048	0.011
5214224	0.69	0.388	0.007	0.008
5214225	0.48	0.004	0.004	<0.005
5214226	0.62	<0.001	<0.001	<0.005
5214227	0.51	0.005	<0.001	<0.005
5214228	0.55	<0.001	<0.001	<0.005
5214229	0.57	<0.001	<0.001	<0.005
5214230	0.62	<0.001	<0.001	<0.005
5214231	0.56	<0.001	<0.001	<0.005
5214232	0.65	<0.001	<0.001	<0.005
5214233	0.64	<0.001	0.011	0.006
5214234	0.66	<0.001	<0.001	<0.005
5214235	0.72	0.039	0.008	0.006
5214236	0.63	0.039	0.010	0.005
5214237	0.58	0.007	0.013	0.009
5214238	0.80	0.133	0.012	<0.005

Comments: RDL - Reported Detection Limit

Certified By: Ron Cardinall

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y519089

PROJECT NO:

ATTENTION TO: RICHARD BECK

Solid Analysis

RPT Date:		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits	
										Lower	Upper
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2616885	0.001	0.005		< 0.001	0.331	0.321	103%	80%	120%
Pd	1	2616885	0.0114	0.0116	1.7%	< 0.001	0.039	0.037	104%	80%	120%
Pt	1	2616885	0.005	0.005	0.0%	< 0.005	0.099	0.090	110%	80%	120%
Fire Assay - Au, Pt, Pd Trace Levels, ICP-OES finish (202055)											
Au	1	2616909	0.133	0.093		< 0.001				80%	120%
Pd	1	2616909	0.0117	0.0146	22.1%	< 0.001				80%	120%
Pt	1	2616909	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Ag	1	2616885	0.101	0.075	29.5%	< 0.01				80%	120%
Al	1	2616885	2.71	2.38	13.0%	< 0.01				80%	120%
As	1	2616885	1.1	1.1	0.0%	0.2				80%	120%
Au	1	2616885	< 0.01	< 0.01	0.0%	< 0.01	0.03	0.03	103%	80%	120%
B	1	2616885	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2616885	8	7	13.3%	< 1				80%	120%
Be	1	2616885	0.199	0.183	8.4%	< 0.05				80%	120%
Bi	1	2616885	< 0.01	< 0.01	0.0%	< 0.01	0.18	0.18	99%	80%	120%
Ca	1	2616885	2.66	2.39	10.7%	< 0.01				80%	120%
Cd	1	2616885	0.04	0.04	0.0%	< 0.01				80%	120%
Ce	1	2616885	6.81	6.44	5.6%	< 0.01	41	35	117%	80%	120%
Co	1	2616885	30.3	29.4	3.0%	< 0.1				80%	120%
Cr	1	2616885	202	187	7.7%	< 0.5				80%	120%
Cs	1	2616885	1.24	1.23	0.8%	< 0.05				80%	120%
Cu	1	2616885	142	131	8.1%	< 0.1				80%	120%
Fe	1	2616885	3.90	3.45	12.2%	< 0.01				80%	120%
Ga	1	2616885	9.76	8.95	8.7%	< 0.05				80%	120%
Ge	1	2616885	0.199	0.184	7.8%	0.09				80%	120%
Hf	1	2616885	0.291	0.273	6.4%	< 0.02				80%	120%
Hg	1	2616885	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
In	1	2616885	0.023	0.021	9.1%	< 0.005				80%	120%
K	1	2616885	0.08	0.08	0.0%	< 0.01				80%	120%
La	1	2616885	2.76	2.59	6.4%	< 0.1	19	17	114%	80%	120%
Li	1	2616885	23.2	22.8	1.7%	< 0.1				80%	120%
Mg	1	2616885	2.18	1.96	10.6%	< 0.01				80%	120%
Mn	1	2616885	757	695	8.5%	< 1				80%	120%
Mo	1	2616885	0.310	0.303	2.3%	< 0.05				80%	120%
Na	1	2616885	0.026	0.024	8.0%	< 0.01				80%	120%
Nb	1	2616885	0.75	0.68	9.8%	< 0.05				80%	120%
Ni	1	2616885	78.0	75.6	3.1%	< 0.2				80%	120%
P	1	2616885	359	329	8.7%	< 10				80%	120%
Pb	1	2616885	0.5	0.5	0.0%	< 0.1				80%	120%
Rb	1	2616885	4.86	4.62	5.1%	< 0.1				80%	120%
Re	1	2616885	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
S	1	2616885	0.032	0.029	9.8%	< 0.005				80%	120%

Results relate only to the items tested

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES
AGAT WORK ORDER: 11Y519089
PROJECT NO:
ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date:		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Sb	1	2616885	0.73	0.73	0.0%	< 0.05				80%	120%
Sc	1	2616885	10.6	10.2	3.8%	< 0.1				80%	120%
Se	1	2616885	0.5	0.4	22.2%	< 0.2				80%	120%
Sn	1	2616885	0.46	0.43	6.7%	< 0.2				80%	120%
Sr	1	2616885	93.5	86.4	7.9%	0.5				80%	120%
Ta	1	2616885	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2616885	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Th	1	2616885	0.2	0.2	0.0%	< 0.1				80%	120%
Ti	1	2616885	0.518	0.452	13.6%	< 0.005				80%	120%
Tl	1	2616885	0.03	0.03	0.0%	< 0.02				80%	120%
U	1	2616885	0.164	0.155	5.6%	< 0.05				80%	120%
V	1	2616885	149	138	7.7%	< 0.5				80%	120%
W	1	2616885	0.06	0.06	0.0%	< 0.05				80%	120%
Y	1	2616885	10.1	9.42	7.0%	< 0.05	9	7	126%	80%	120%
Zn	1	2616885	46.6	43.7	6.4%	0.9				80%	120%
Zr	1	2616885	8.7	8.2	5.9%	< 0.5				80%	120%
Aqua Regia Digest - Metals Package, ICP/ICP-MS finish (201074)											
Ag	1	2616909	5.94	5.80	2.4%	< 0.01				80%	120%
Al	1	2616909	1.70	1.57	8.0%	< 0.01				80%	120%
As	1	2616909	0.5	0.1		< 0.1				80%	120%
Au	1	2616909	0.01	0.01	0.0%	< 0.01				80%	120%
B	1	2616909	< 5	< 5	0.0%	< 5				80%	120%
Ba	1	2616909	2	2	0.0%	< 1				80%	120%
Be	1	2616909	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Bi	1	2616909	0.07	0.07	0.0%	< 0.01				80%	120%
Ca	1	2616909	1.76	1.58	10.8%	< 0.01				80%	120%
Cd	1	2616909	0.31	0.31	0.0%	< 0.01				80%	120%
Ce	1	2616909	0.661	0.564	15.8%	< 0.01				80%	120%
Co	1	2616909	2.3	2.2	4.4%	< 0.1				80%	120%
Cr	1	2616909	156	150	3.9%	< 0.5				80%	120%
Cs	1	2616909	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Cu	1	2616909	159000	160000	0.6%	< 0.1				80%	120%
Fe	1	2616909	2.49	2.34	6.2%	< 0.01				80%	120%
Ga	1	2616909	0.791	0.701	12.1%	< 0.05				80%	120%
Ge	1	2616909	0.066	0.053	21.8%	< 0.05				80%	120%
Hf	1	2616909	0.097	0.079	20.5%	< 0.02				80%	120%
Hg	1	2616909	0.03	0.03	0.0%	< 0.01				80%	120%
In	1	2616909	< 0.005	< 0.005	0.0%	< 0.005				80%	120%
K	1	2616909	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
La	1	2616909	0.26	0.22	16.7%	< 0.1				80%	120%
Li	1	2616909	1.17	1.09	7.1%	< 0.1				80%	120%
Mg	1	2616909	0.995	0.967	2.9%	< 0.01				80%	120%
Mn	1	2616909	248	239	3.7%	< 1				80%	120%
Mo	1	2616909	0.40	0.40	0.0%	< 0.05				80%	120%

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Quality Assurance

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y519089

PROJECT NO:

ATTENTION TO: RICHARD BECK

Solid Analysis (Continued)

RPT Date:		REPLICATE				Method Blank	REFERENCE MATERIAL				
PARAMETER	Batch	Sample Id	Original	Rep #1	RPD		Result Value	Expect Value	Recovery	Acceptable Limits Lower	Acceptable Limits Upper
Na	1	2616909	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Nb	1	2616909	0.15	0.12	22.2%	< 0.05				80%	120%
Ni	1	2616909	4.2	4.1	2.4%	< 0.2				80%	120%
P	1	2616909	294	289	1.7%	< 10				80%	120%
Pb	1	2616909	0.1	0.1	0.0%	< 0.1				80%	120%
Rb	1	2616909	< 0.1	< 0.1	0.0%	< 0.1				80%	120%
Re	1	2616909	< 0.001	< 0.001	0.0%	< 0.001				80%	120%
S	1	2616909	2.00	1.97	1.5%	< 0.005				80%	120%
Sb	1	2616909	0.22	0.21	4.7%	< 0.05				80%	120%
Sc	1	2616909	1.2	1.0	18.2%	< 0.1				80%	120%
Se	1	2616909	1.7	1.7	0.0%	< 0.2				80%	120%
Sn	1	2616909	< 0.2	< 0.2	0.0%	< 0.2				80%	120%
Sr	1	2616909	130	114	13.1%	< 0.2				80%	120%
Ta	1	2616909	< 0.01	< 0.01	0.0%	< 0.01				80%	120%
Te	1	2616909	0.026	0.023	12.2%	< 0.01				80%	120%
Th	1	2616909	< 0.1	< 0.1	0.0%	< 0.1				80%	120%
Ti	1	2616909	0.357	0.337	5.8%	< 0.005				80%	120%
Tl	1	2616909	< 0.02	< 0.02	0.0%	< 0.02				80%	120%
U	1	2616909	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
V	1	2616909	90.8	85.5	6.0%	< 0.5				80%	120%
W	1	2616909	< 0.05	< 0.05	0.0%	< 0.05				80%	120%
Y	1	2616909	0.885	0.752	16.2%	< 0.05		7		80%	120%
Zn	1	2616909	20.4	36.0		< 0.5				80%	120%
Zr	1	2616909	2.9	2.1		< 0.5				80%	120%

Certified By: Ron Cardinall

Results relate only to the items tested

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y519089

PROJECT NO:

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

Results relate only to the items tested

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Method Summary

CLIENT NAME: UTM EXPLORATION SERVICES

AGAT WORK ORDER: 11Y519089

PROJECT NO:

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
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pd	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES
Pt	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP/OES

Results relate only to the items tested

Appendix II: AGAT Lab Methodology

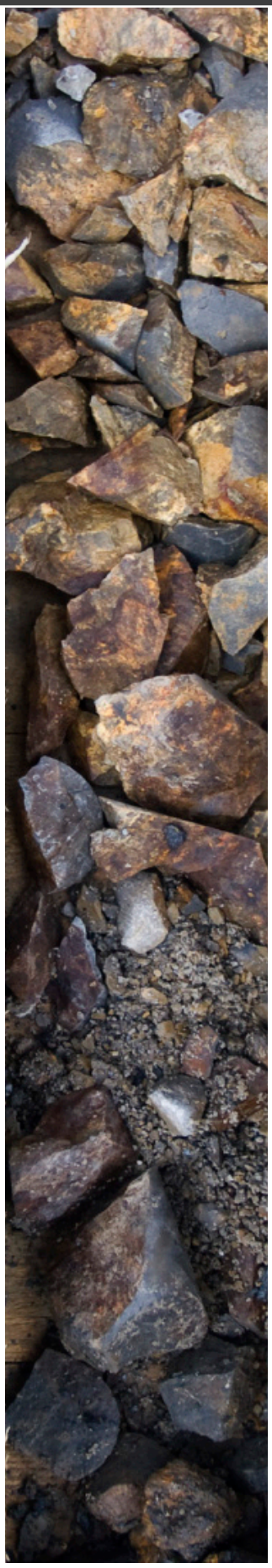
Mining Division

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.

Appendix III: Photos

Photo 1: Massive quartzite with talus materials of silica-limonite altered phyllite

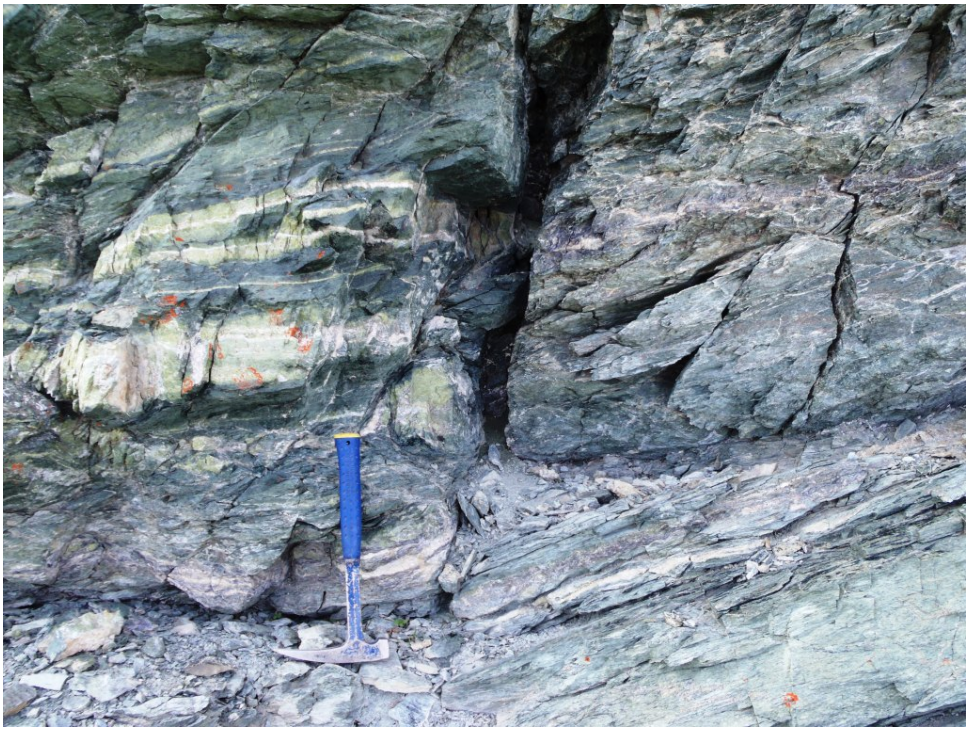


Photo 2: Quartz-epidote bands or foliation fills in phyllite

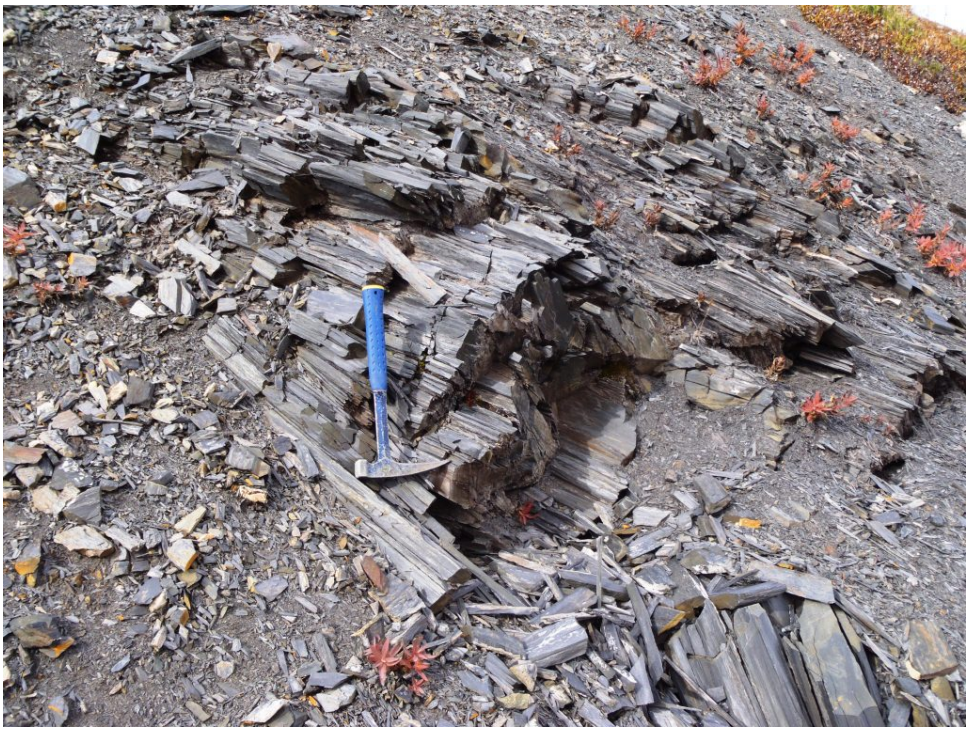


Photo 3: Gray, fine-grained and highly foliated slate

Photo 4: A Limestone body capping one of the ridge tops

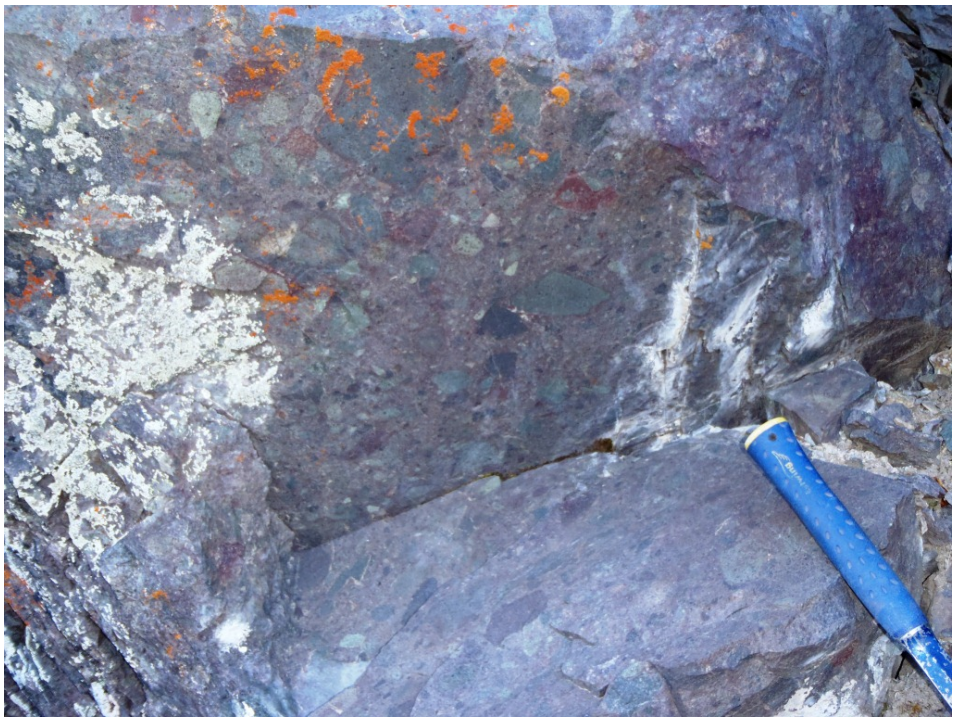


Photo 5: Andesitic Breccia with multi-lithic clasts

Photo 6: Sharp contact between foliated phyllite (left of photo) and fractured quartz diorite (right of photo)

Photo 7: View of one of the Thrust Faults looking NW

Photo 8: Quartz-limonite (after pyrite) lens in highly foliated phyllite

Photo 9: 10 cm. massive sulfide lens in weakly foliated meta-andesite

Photo 10: Chip samples collected from outcrop in Photo 9 above

Photo 11: Highly foliated phyllite in one of the ridge tops

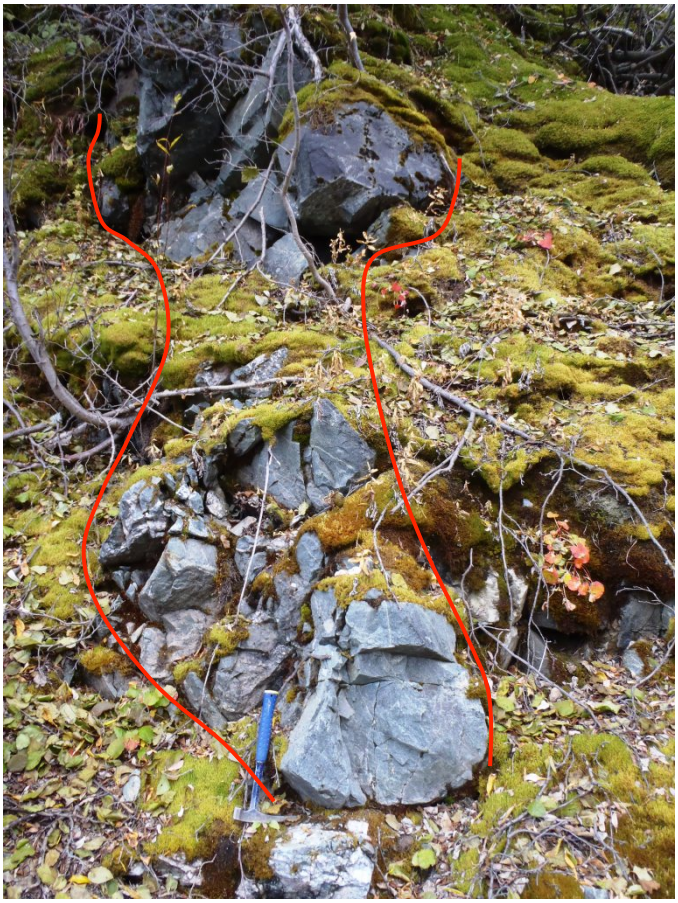


Photo 12: A narrow Gabbro dike in meta-andesite